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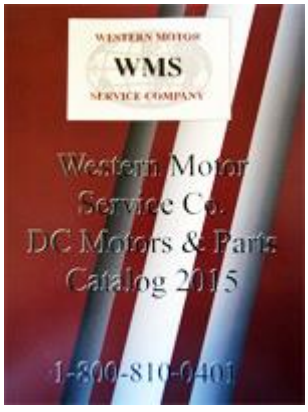

WESTERN MOTORS SERVICE CO.
1211 23rd AVE.
ROCKFORD, IL. 61104 USA

Phone number; 800-810-0401 <> 815-986-2214

E-mail; westernmotors@wms1.com <> Fax # 815-986-2566

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WESTERN MOTOR
WMS
SERVICE COMPANY

*** MOST POPULAR * STD.***

*** 12V * CW 9 SPLINE ***

Overall length 6.9”/175.26mm

12V “GOLD” STYLE DBB (9) SPLINE (CW)

STANDARD DUTY MOTOR

“WMS” PART NUMBER, W-9787

REPLACES, D-6000, DCM-0013, 1185AC, 1787AC, 520-001, 1931AC, 13850, 25169, M-3400, FN2-0001N, 46-4048, 222423, AMT0097, 02-1020.

(APPLICATIONS) (FENNER FLUID POWER, MAXON) (WALTCO, SPX, AMETEK, SNOWAY PLOWS)

*** MOST POPULAR * HD***

*** 12V * CW 9 SPLINE ***

Overall length 7.5”/190.5mm

(HD MOTOR WITH EASY CHANGE BRUSHES)

12V “GOLD” STYLE (9) SPLINE (HD / CW)

HEAVY DUTY MOTOR (DBB)

“WMS” PART NUMBER, W-9789

REPLACES, 46-4072, 1997AC, 1789AC, 02-1021, 25163, DCM-0014, 70392800, 70391100, FN2-0002N, 11212386, D-6000HD, AMT0105, W-9787, W-8987, & W-8989.

(APPLICATIONS) (FENNER, DELL LIFTGATES, MAXON, WALTCO, SPX, AMETEK)

(THIS “HD” MOTOR IS 7.5” LONG AND INTERCHANGES WITH “ALL” (CW) ONE POST (9) SPLINE MOTORS)

Overall length 6.9”/175.26mm

24V CW * “GOLD” STYLE (9) SPLINE MOTOR,

STANDARD DUTY MOTOR (DBB)

“WMS” PART NUMBER, W-9791

REPLACES, 11212349, 1791, M-3400-24, AMJ5564, 1791AC

(APPLICATIONS) (SPX, WALTCO, FENNER FLUID POWER)

(24V SINGLE TERMINAL POST MOTOR)

Overall length 7.5”/190.5mm

24V “HD” (DBB) (9) SPLINE MOTOR,

(CW)(HEAVY DUTY)(DBB)

“WMS” PART NUMBER, W-9792

****24V* VERSION OF NUMBERS, W-9789 & 1789AC .***

REPLACES, 11212387, AMJ5582, 1792, 1792AC.

(APPLICATIONS) (SPX, WALTCO, FENNER FLUID POWER)

(ONE OF THE TERMINAL POSTS IS “GROUNDED” TO THE FIELD CASE TO MAKE THIS A “ONE” TERMINAL POST MOTOR)

12V "BLACK" STYLE DBB (9) SPLINE (HD / CW) MOTOR

"WMS" PART NUMBER, W-9789B

REPLACES, 1997AC, 1789AC, 02-1021, DCM-0014, 70392800, 70391100 25163, FN2-0002N,11212386, D-6000HD, AMT0105, W-9787, W-8987, W-9789

(APPLICATIONS)

(FENNER, DELL LIFTGATES, MAXON, SPX, WALTCO, AMETEK)

Overall length 7.5"/190.5mm

*12V / CW * *STANDARD DUTY DBB (* 9) SPLINE MOTOR

"WMS" PART NUMBER, W-9804

(APPLICATIONS) (FENNER FLUID POWER, SPX, WALTCO, MAXON)

(THIS MOTOR COMES COMPLETE WITH THE DOG HOUSE STYLE DRIVE END FRAME AS SHOWN)

(FOR THE "HD" 7" LONG VERSION OF THIS MOTOR USE, W-9904)

12V *PRESTOLITE STYLE* (CW) (9) SPLINE MOTOR

"WMS" PART NUMBER, W-9787-P

REPLACES, MUE-6114S, 46-4048

(APPLICATIONS) (FENNER FLUID POWER, SPX, WALTCO, MAXON)

(THE W-9787-P MOTOR HAS A BUSHING COM END FRAME)

(FOR A "DBB" MOTOR USE MOTOR NUMBER, W-9787)

Overall length 6.9"/175.26mm

12V "GOLD" (9) SPLINE (HD / CW) MOTOR W/OLP

"WMS" PART NUMBER, W-9789A

REPLACES, 1997AC, 1789AC, 02-1021, 25163, DCM-0014, 70392800, 70391100, FN2-0002N, 11212386, D-6000HD, AMT0105, W-9787, W-8987, & W-8989.

(APPLICATIONS)

(FENNER, DELL LIFTGATES, MAXON, SPX, WALTCO, AMETEK)

(THIS MOTOR HAS "OVERLOAD" PROTECTION)

Overall length 7.5"/190.5mm

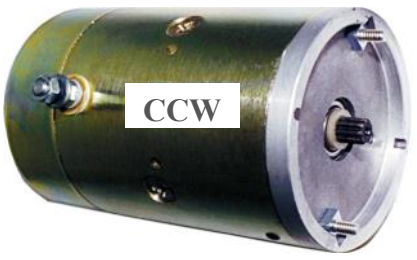
12V (*DBB)* (CCW) (9) SPLINE MOTOR.

"WMS" PART NUMBER, W-8988C

(APPLICATIONS)

(BIG JOE, FENNER FLUID POWER *CCW*)

(CCW) VERSION OF W-9787, W-9789



Overall length 6.9”/175.26mm

12V CW / *DBB* (9) SPLINE MOTOR W/INS. GROUND

“WMS” PART NUMBER, W-9795

REPLACES NUMBERS, W-9788, KMD2, 901528, 1472AC, 1788
1788AC, 016901, 016903, 016909, 016912, 016922, 016936, 901528,
301821-000, 303797-000, 11212385, 202327, 2578AC,
(APPLICATIONS)
(BIG JOE, SPX, PRIME MOVER, FENNER FLUID POWER ETC.)
(FOR A MOTOR WITH “OVERLOAD” PROTECTION USE W-9795A)

Overall length 6.9”/175.26mm

24V CW / *DBB* (9) SPLINE MOTOR W/INS. GROUND

“WMS” PART NUMBER, W-9793

REPLACES NUMBERS, W-9796, 11212388, AMJ5583,
KMD5, 2971, 301822-000, 303798-000, 1793AC,
(APPLICATION) (PRIME MOVER, FENNER FLUID POWER)
(FOR A MOTOR WITH “OVERLOAD” PROTECTION USE W-9793A)

24V (CW / 9S) HD (5” DIA.) MMR STYLE MOTOR

(9 SPLINE ARMATURE SHAFT & ROUND DRIVE END FRAME)

WMS PART NUMBER, W-5106

REPLACES, W5106, 3600219, 3600-219, 3673AB
46-4063, MMR5103, MMR-5103, MMR-5103S
(APPLICATIONS) (SPX, FENNER FLUID POWER)

(For a motor with the tall black plastic insulators
on the terminal posts order part number W-5106B)

24V (CW / 9S) HD (5” DIA.) MMR STYLE MOTOR

(9 SPLINE ARMATURE SHAFT & ROUND DRIVE END FRAME)

WMS PART NUMBER, W-5106B

REPLACES, 4380AC, DM1001A, DM1001B
46-4065, MMR5106, MMR-5106S, 4380-AC
(APPLICATIONS) (SPX, FENNER FLUID POWER)

(For a motor “without” the tall black plastic insulators
on the terminal posts order part number W-5106)

24V (CW / 9S) HD (5” DIA.) MMR STYLE MOTOR

(9 SPLINE ARMATURE SHAFT & SQUARE DRIVE END FRAME)

WMS PART NUMBER, MMR5107N

REPLACES NUMBERS,
MMR-5107, 305008-001, 5673AB, 3931AB, MMR5107S, 46-4143
(APPLICATIONS)
(SPX, FENNER FLUID POWER)

(SPECIAL DUTY PRESTOLITE STYLE STREET CHROME)

*** 12V* CW * (9) SPLINE MOTOR**

"WMS" PART NUMBER, W-9787-LC

(CHROME (4) FIELD COIL MOTOR)

(APPLICATIONS) FENNER FLUID POWER PUMPS, SPX, PRO HOPPER, COOL CARS, SHOWTIME HYD., ORLIE'S AUTO, RED'S PRO SERIES, AND MANY OTHERS)

(THIS MOTOR HAS "HD" DOUBLE LEAD BRUSH WIRES)
(ARMATURE IS BALANCED AND HAS THE WINDINGS "WELDED")
(TO THE COMMUTATOR AND SPECIAL BANDING ON THE WINDINGS)

(THESE MOTORS HAVE A BUSHING COM END FRAME AND WILL WORK WITH THE VENTED BALL BEARING COMM END FRAME ASSEMBLIES AVAILABLE FROM THE BUSINESS LISTED ABOVE)

(For a Ametek / Prestolite motor use number MZA4001)

Overall length 6.9"

POPULAR CHROME 9 SPL.

(SPECIAL DUTY PRESTOLITE STYLE STREET CHROME)
OLD SCHOOL PLUS DESIGN "WITH IMPROVEMENTS"

*** 12V* CW * (9) SPLINE MOTOR WITH INS. GROUND FOR IMPROVED CURRENT FLOWS FOR MORE SPEED**

"WMS" PART NUMBER, W-9799C

(CHROME "HD" SPECIAL (4) FIELD COIL MOTOR)

(HEAVY DOUBLE LEAD WIRES TO BRUSHES)

(APPLICATIONS)
(FENNER FLUID POWER PUMPS, SPX, PRO HOPPER)
(COOL CARS, SHOWTIME HYD., ORLIE'S AUTO ACCESSORIES)
(RED'S PRO SERIES, AND MANY OTHERS)

(THIS MOTOR HAS "HD" DOUBLE LEAD BRUSH WIRES)
("SPECIAL DUTY" SERIES PARALLEL HIGH RPM FIELD COILS)

(ARMATURE IS BALANCED AND HAS THE WINDINGS "WELDED" TO THE COMMUTATOR AND SPECIAL BANDING ON THE WINDINGS)

VERY POPULAR "HD" 9 SPL.

The armature has special banding on the windings to handle the high RPM'S

*** 12V*/DBB (2) POST 3" DIAMETER PM MOTOR**

(TWO TERMINAL POST) NINE SPLINE MOTOR (.8KW)

"WMS" PART NUMBER, W-8046

REPLACES NUMBER, AME1701, MF-4046, 11.216.187

(APPLICATIONS)

(USED TO OPERATE DOORS, HOODS, TRUNKS ETC.)

(FENNER FLUID POWER, PRIME-TRAK, PRIME MOVER EQUIP.)

(MOTOR HAS BALL BEARING FRAMES)

(AVAILABLE WITH SLOT STYLE ARMATURE SHAFT # W-8055)

Overall length 6.9”/175.26mm

BALL BEARING AT DE

(SPECIAL DUTY PRESTOLITE STYLE STREET BLACK)

*** 12V* (CW) (9) SPLINE MOTOR W/4 FIELD COILS**

“WMS” PART NUMBER, W-9787-LB

(APPLICATIONS)

(FENNER FLUID POWER PUMPS, SPX, PRO HOPPER)
(COOL CARS, SHOWTIME HYD., ORLIE’S AUTO ACCESSORIES)
(RED’S PRO SERIES, AND MANY OTHERS)

(THIS MOTOR HAS “HD” DOUBLE LEAD BRUSH WIRES)
(ARMATURE IS BALANCED AND HAS THE WINDINGS “WELDED”)
(TO THE COMMUTATOR AND SPECIAL BANDING ON THE WINDINGS)

THIS MOTOR HAS A BUSHING COM END FRAME AND WILL WORK WITH THE VENTED BALL BEARING COMM END FRAME ASSEMBLIES AVAILABLE FROM THE BUSINESS LISTED ABOVE.

POPULAR STD. 9 SPL.

Overall length 6.9”/175.26mm

“GOLD” STYLE (9) SPLINE (CW)

***12V* STANDARD DUTY MOTOR (DBB)**

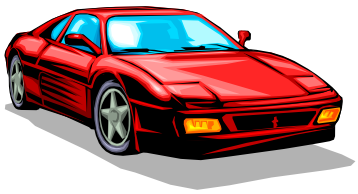
“WMS” PART NUMBER, W-9787-LG

REPLACES NUMBER, 1787AC

(THIS MOTOR HAS “HD” DOUBLE LEAD BRUSH WIRES)
(ARMATURE IS BALANCED AND HAS THE WINDINGS “WELDED”)
(TO THE COMMUTATOR AND SPECIAL BANDING ON THE WINDINGS)

(APPLICATIONS)

(FENNER FLUID POWER PUMPS, SPX, PRO HOPPER)
(COOL CARS, SHOWTIME HYD., ORLIE’S AUTO ACCESSORIES)
(RED’S PRO SERIES, AND MANY OTHERS)



POPULAR “HD” 9 SPL.

Overall length 7.5”/190.5mm

(ORIGINAL SACO MOTOR)

***12V* “GOLD” STYLE (9) SPLINE (HD / CW)**

LONGER “HD” MOTOR (DBB)

“WMS” PART NUMBER, W-9789-LG

REPLACES NUMBER, 1789AC

(THIS MOTOR HAS “HD” DOUBLE LEAD BRUSH WIRES)
(ARMATURE IS BALANCED AND HAS THE WINDINGS “WELDED”)
(TO THE COMMUTATOR AND SPECIAL BANDING ON THE WINDINGS)

(APPLICATIONS)

(FENNER FLUID POWER PUMPS, SPX, PRO HOPPER)
(COOL CARS, SHOWTIME HYD., ORLIE’S AUTO ACCESSORIES)
(RED’S PRO SERIES, AND MANY OTHERS)

5

***12V* HD*(*DBB*) (CW) (9) SPLINE MOTOR**

"WMS" PART NUMBER W-8787

(GOLD STYLE "2" FIELD COIL "HIGH RPM" MOTOR)
(SPECIAL FIELD COILS FOR QUICKER RESPONSE)
(HEAVY DOUBLE LEAD WIRES TO BRUSHES)

(THIS IS FOR "LOW RIDER" APPLICATIONS)

EASY CHANGE BRUSHES

Overall length 6.9"/175.26mm

***12V* HD*(DBB) (CW) (9) SPLINE MOTOR**

"WMS" PART NUMBER, W-8887

(BLACK "2" FIELD COIL "HIGH RPM" MOTOR)
(SPECIAL FIELD COILS FOR QUICKER RESPONSE)
(HEAVY DOUBLE LEAD WIRES TO BRUSHES)

(THIS IS FOR "LOW RIDER" APPLICATIONS)

****12V* (DBB) SPECIAL DUTY MOTORS FOR " LOW RIDERS "***

"WMS" PART NUMBER, W-7789

("HD" GOLD STYLE "4" FIELD COIL (9) SPLINE MOTOR)

DESIGNED FOR HIGHER CURRENT LOADS,
(BANDED ARMATURES W / HD COMMUTATOR)
(HEAVY DOUBLE LEAD WIRES TO BRUSHES)
(SPOT WELDED LEADS FOR BEST CONNECTIONS)
(SPECIAL FIELD COILS FOR QUICKER RESPONSE)

(THIS IS FOR "LOW RIDER" APPLICATIONS)

Overall length 7.5"/190.5mm

***24V* (CW) HD (5" DIA.) "DBB" MOTOR**

"WMS" PART NUMBER, W-4050C

REPLACES NUMBERS,
MF4050, MF4050C, W4050C, MF-4050, MF-4050C

(HAS A (9) SPLINE ARMATURE SHAFT)

(APPLICATIONS) (FENNER & SPX PUMPS, ETC.)

***12 / 24V* (CW) HD (5" DIA.) "OHIO" MOTOR**

WMS PART NUMBER, D468302XWF02A

REPLACES NUMBERS,
2308AC, 2489AC, BA3640-702048BP, D468218XWF02A

(HAS A (9) SPLINE ARMATURE SHAFT)

(APPLICATIONS) (FENNER & SPX PUMPS, etc.)

MOST POPULAR FORWARD AND REVERSING "9" SPLINE

Overall length 6.9"/175.26mm

12V *"BI-DIRECTIONAL"*

(*STANDARD DUTY*) (9) SPLINE MOTOR

(FORWARD & REVERSE)

"WMS" <u>PART NUMBER W-9794-P</u>

REPLACES , M-3435, W-9794, 1794 & 1794AC, 8487, 1471AC, 0002294619,

(APPLICATIONS) (STONE HYD., SPX, FENNER FLUID POWER)

Overall length 7.5"/190.5mm

12V *"HD" (MORE POWER) "BI-DIRECTIONAL"*

***(FORWARD & REVERSE)* (9) SPLINE *(DBB)* MOTOR**

"WMS" <u>PART NUMBER W-9894</u>

(SAME APPLICATIONS AS THE ABOVE MOTOR ONLY *THIS MOTOR HAS HEAVY DUTY FIELD COILS AND ARMATURE*)

24V (9) SPLINE " BI-DIRECTIONAL " MOTOR

(FORWARD & REVERSE) *24V*

"WMS" <u>PART NUMBER, W-9724-P</u>

REPLACES NUMBERS, 1724AC, M-3435-24V

(APPLICATION) (SPX, FENNER FLUID POWER, VENCO, ETC.)

Overall length 7.5"/190.5mm

24V "HD" CW / *DBB* (9) SPLINE MOTOR W/INS. GROUND

"WMS" <u>PART NUMBER, W-9797</u>

REPLACES NUMBERS, MF4093

(APPLICATION)

(PRIME MOVER, FENNER FLUID POWER)

(THIS IS A HD VERSION OF THE W-9793 WHICH IS 6.9" LONG)

Overall length 7.5"/190.5mm

12V "HD" *DBB / CW* (9) SPLINE MOTOR WITH

"INSULATED GROUND" AND (2) TERMINAL POSTS

"WMS" <u>PART NUMBER, W-9895</u>

REPLACES, W-9975, W-9975XP, MF-4092, MF4092, 3600342, W9975, W9975XP, W-9795, W9895,

(APPLICATIONS) (BIG JOE, SPX, PRIME MOVER, SPX, ETC.)

(THIS IS A HD VERSION OF THE W-9795 WHICH IS 6.9" LONG)

12V (CW/*DBB*) PRESTO LIFT MOTOR

"WMS" PART NUMBER, W-1711

REPLACES NUMBER, W-1711-P, B-258

(APPLICATION) SCISSORS LIFTS,

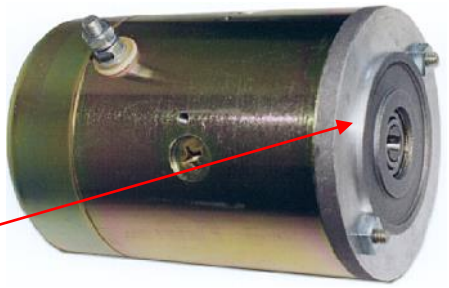
PRESTO LIFTS & SOUTHWORTH PRODUCTS

(THIS IS A SPX STYLE OF THE MOTOR BELOW # W-8902)

(THE RAISED RING DIAMETER IS 3"/ 76.2mm)

(THRU BOLTS ARE AT 3 & 9)

ORIGINAL EQUIPMENT



EASY CHANGE BRUSHES

.256"/ 6.500mm Shaft slot

12V (CW) DBB "LEE" MOTOR WITH DRIVE END,

(PRESTOLITE STYLE "LEE" MOTOR)

"WMS" PART NUMBER, W-8902

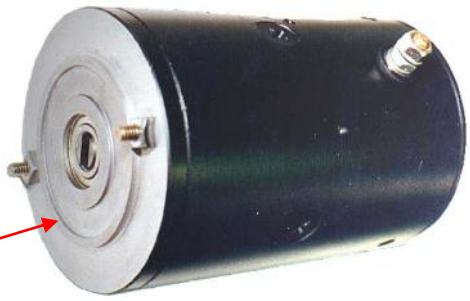
(APPLICATION) (LEE ENGINEERING LIFT) *(EARLY MODEL)*

(THIS IS A PRESTOLITE STYLE OF MOTOR ABOVE # W-1711)

(FOR A "CCW" VERSION ORDER "WMS" NUMBER, W-8902-R)

(THE RAISED RING DIAMETER IS 3"/ 76.2mm)

(THRU BOLTS ARE AT 5 & 11)



.256"/ 6.50mm Shaft slot

12V (CW/DBB) WILLIAMS STYLE MOTOR

"WMS" PART NUMBER, W-1768

REPLACES, A-5, & W-1766, PISTON PUMP MOTOR

(APPLICATION)

(WILLIAMS MACHINE & TOOL CO. PUMPS)

(THIS IS A SPX STYLE OF MOTOR BELOW # W-8968)

(THE RAISED RING DIAMETER IS 3.25"/ 82.55mm)

(THRU BOLTS ARE AT 3 & 9)

EASY CHANGE BRUSHES

.256"/ 6.50mm Shaft slot

12V (CW) " WILLIAMS STYLE MOTOR "

"WMS" PART NUMBER, W-8968

REPLACES NUMBERS,

A-5, & W-1766, PISTON PUMP MOTOR

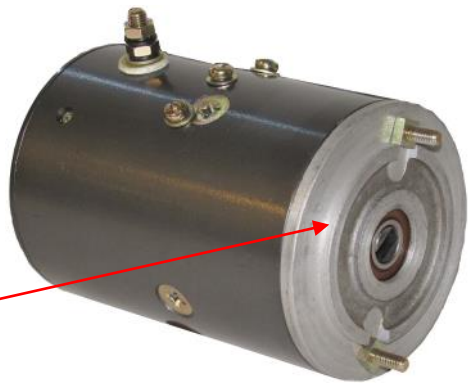
(APPLICATION) (WILLIAMS MACHINE & TOOL CO. PUMPS)

(THIS IS A PRESTOLITE STYLE OF ABOVE MOTOR # W-1768)

(THE RAISED RING DIAMETER IS 3.25"/ 82.55mm)

(THRU BOLTS ARE AT 5 & 11)

(FOR "CCW" USE NUMBER W-8767)



.256"/ 6.50mm Shaft slot

EASY CHANGE BRUSHES

12V (CW) *DBB* SLOT SHAFT MOTOR FOR THE *" HESSELMAN PUMP "*

"WMS" PART NUMBER, W-8534B

REPLACES # 12M811TWA, 12MB11TWA, PR-117MD6, S-34016, LM-312, M-4400

(SPECIAL DE FRAME & "NARROW" .160"/4.06mm ARMATURE SLOT)

(APPLICATIONS) (HESSELMAN PUMP, WALTCO LEVEL LIFT, ETC.)

(For a motor with "Overload" protection order number W-8533B)

WITH OVERLOAD PROTECTION

12V (CW) *DBB* SLOT SHAFT MOTOR FOR THE *" HESSELMAN PUMP " W/"OLP"*

"WMS" PART NUMBER, W-8533B

(SPECIAL DE FRAME & "NARROW" .160"/4.06mm ARMATURE SLOT)

(APPLICATIONS)

(HESSELMAN PUMP, WALTCO LEVEL LIFT, ETC.)

.256"/ 6.50mm Shaft slot

12V(CW) SLOT SHAFT MOTOR (2) FIELD (HIGH RPM)

WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

"WMS" PART NUMBER, W-8701

REPLACES, 3060008, 46-719, MHA-7001, MHA-7001A

(APPLICATIONS) (S. WARNER, J.S. BARNES, DELTA POWER, ETC.)

(FOR A DOUBLE BALL BEARING MOTOR USE NUMBER W-8801)

12V DBB * (CW) SLOT SHAFT MOTOR (2) FIELD ("HEAVY DUTY" <> "HIGH RPM")

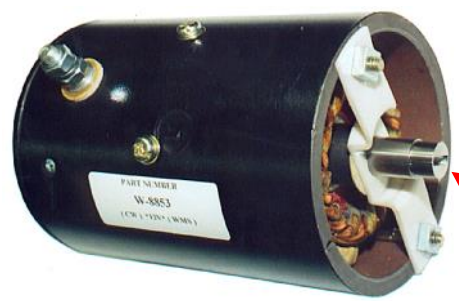
(DOUBLE WIRE BRUSH LEADS) (WELDED ARMATURES)

(WITH THE THRU BOLTS AT THE 5 & 11 POSITION)

"WMS" PART NUMBER, W-8801

THIS IS A 2 FIELD COIL VERSION OF A W-8490

(APPLICATIONS) DELTA POWER, RED'S HYDRAULICS ETC.)



12V (CW) "SPECIAL" SLOT SHAFT MOTOR

(MOTOR HAS A "SPECIAL" LONGER SHAFT W/SMALL END SLOT)

"WMS" PART NUMBER, W-8853

(THRU BOLTS AT 5 & 11 POSITION)

REPLACES NUMBERS, 46-934, 991041, MEO-7002, AND MEO-7002A

(APPLICATIONS) (BAKER MATERIAL HANDLING)

(ARMATURE SHAFT SLOT IS 0.125"/ 3.17mm WIDE)

12V (CW) (GOLD) *DBB SLOT SHAFT MOTOR*

"WMS" PART NUMBER, W-8995

REPLACES NUMBERS, W-8973, 1122901, W8995, M3080115, MUE-7002

(APPLICATIONS)

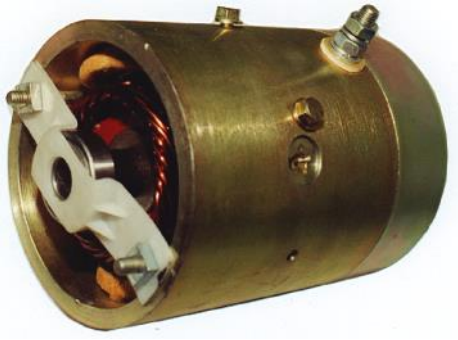
(APPLIED ENERGY, BORG WARNER, CESSNA, HIDROIRMA S.P.A.,)

(STONE INDUSTRIES, FENNER STONE, PARKER HANNIFAN,)

(MTE, FENNER FLUID POWER, J.S. BARNES CORP.)

(THIS IS A "GOLD" (DBB) VERSION OF NUMBER W-8973)

For a motor with the thru bolts in the 5 & 11 position use W-8990D



.256"/ 6.50mm Shaft slot

12V (CW) "HD" (4) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION.

"WMS" PART NUMBER, W-8973D

REPLACES, 46-2615, 10303057, 1122901, MUE-7002

W-8973, 46-4028, 122901, W8973D, 303057, W8973, M3080115

(APPLICATIONS)

(J.S. BARNES, M.T.E. INDUSTRIES ETC.)

(THIS IS A DOUBLE BALL BEARING MOTOR)

.256"/ 6.50mm Shaft slot

12V (CW) "SPECIAL" SLOT SHAFT MOTOR

(MOTOR HAS A "SPECIAL" LONGER SHAFT W/SMALL END SLOT)

"WMS" PART NUMBER, W-8977

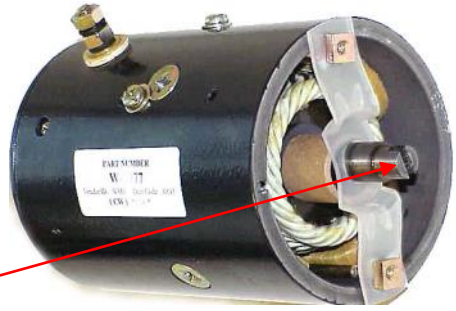
(THRU BOLTS AT 5 & 11 POSITION)

REPLACES, EP35112, W8977, MDY-6201 & MDY-6201A

(APPLICATIONS)

(BAKER MATERIAL HANDLING)

(ARMATURE SHAFT SLOT IS 0.155"/3.93mm WIDE)



5 & 11 THRU BOLT POSITION

12V (CW) "HD" (4) FIELD SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8984

(BOSS SNOW PLOW MOTOR WITH "BEARING" DRIVE END)

REPLACES NUMBERS,

2200720, W8984, 220-0720, MSC-1563

(APPLICATIONS) (HALDEX BARNES PUMP, BOSS SNOW PLOW)

(CUT DOWMN DIAMETER OF THE DRIVE END FRAME IS 4.150)

.256"/ 6.50mm Shaft slot

12V (CW) (4) FIELD SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8990

5 & 11 THRU BOLT POSITION

.256"/ 6.50mm Shaft slot

REPLACES, MDY-6116, MDY-7022, MDY-7031
MDY-7032, MDY-7037, MDY-7039, MDY-7042
M-3200, W8990, 70391000, DCM0004, MDY-7055
(APPLICATIONS)
(APPLIED ENERGY, BORG WARNER, CESSNA, HIDROIRMA S.P.A.)
(STONE INDUSTRIES, FENNER STONE, PARKER HANNIFAN)
(DELTA POWER, FENNER FLUID POWER, J.S. BARNES CORP.)
(ORLIE'S AUTO ACCESSORIES, M.T.E. HYDRAULICS)
(For a "Double Ball Bearing motor use number W-8990D)

12V (CW) "DBB" (4) FIELD SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8990D

.256"/ 6.50mm Shaft slot

REPLACES NUMBERS,
MDY-6116, MDY-7022, MDY-7031
MDY-7032, MDY-7037, MDY-7039, MDY-7042
M-3200, W8990, 70391000, DCM0004, MDY-7055
(Same applications as the W-8990)

12V (CW) (4) FIELD SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8990C

5 & 11 THRU BOLT POSITION

Motor length is 6"/152.4mm

.256"/ 6.50mm Shaft slot

REPLACES, MDY-6116, MDY-7022, MDY-7031,
MDY-7032, MDY-7037, MDY-7039, MDY-7042, MDY-7055,
M-3200, 70391000, DCM0004, W8990C, MUE-6112, 540-004.
(APPLICATIONS) (DELTA POWER, J.S. BARNES CORP.)
(ORLIE'S AUTO ACCESSORIES, M.T.E. HYDRAULICS)
(CUT DOWN DE DIAMETER OF FIELD FRAME IS 4.150)

12V (CW) "HD/DBB" (4) FIELD MOTOR

"WMS" PART NUMBER, W-7690G

5 & 11 THRU BOLT POSITION

.256"/ 6.50mm Shaft slot

REPLACES, MDY-6116, MDY-7022, MDY-7031,
MDY-7032, MDY-7037, MDY-7039, W7690G, MDY-7042, MDY-7055,
70391000, DCM0004, MUE-6112, 540-004, W-8990, W-8990D
(APPLICATIONS)
(APPLIED ENERGY, BORG WARNER, CESSNA, HIDROIRMA S.P.A.)
(STONE INDUSTRIES, FENNER STONE, PARKER HANNIFAN)
(DELTA POWER, FENNER FLUID POWER, J.S. BARNES CORP.)
(ORLIE'S AUTO ACCESSORIES, M.T.E. HYDRAULICS)
THIS "HD" MOTOR IS 7" / 177.8mm LONG

12V (CW) SPECIAL SLOT SHAFT MOTOR WITH
"BUSHING" TYPE SHAFT AT THE DRIVE END SLOT
"WMS" PART NUMBER, W-8778

REPLACES, WAPSA MOTORS, W8778, 0130450043, 9130450043

(APPLICATIONS) (BOOM LIFT ARMS ON TRUCKS)
(LATENT PAVING BOX EQUIPMENT, ETC.)
MOTOR IS 6" LONG WITH THE THRU BOLTS AT THE 3 & 9 POSITION

.256"/ 6.50mm Shaft slot

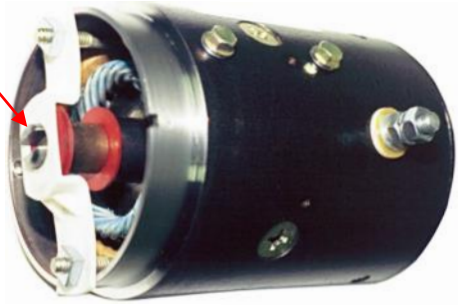
12V (CW) *HD* SLOT SHAFT MOTOR WITH
"BUSHING" TYPE SHAFT AT THE DRIVE END SLOT
"WMS" PART NUMBER, W-8877

REPLACES, WAPSA NUMBERS, W8877, 0130450043, 9130450043

(APPLICATIONS) (BOOM LIFT ARMS ON TRUCKS)
(LATENT PAVING BOX EQUIPMENT, ETC.)
(THIS MOTOR HAS SPECIAL *HD* FIELD COILS)
(FOR A CCW MOTOR USE NUMBER W-8857)
(CUT DOWN DE DIAMETER OF FIELD FRAME IS 4.150)

3 & 9 THRU BOLT POSITION

.256"/ 6.50mm Shaft slot

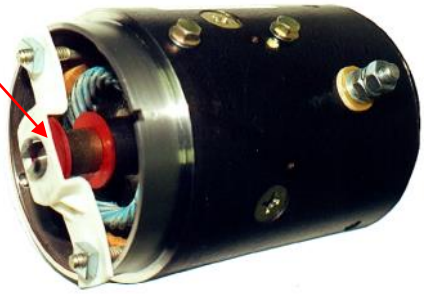


12V (CW) SPECIAL SLOT SHAFT MOTOR WITH
"BUSHING" TYPE SHAFT AT THE DRIVE END SLOT
"WMS" PART NUMBER, W-8878

(THRU BOLTS AT 3 & 9 POSITION) REPLACES, WAPSA,
W8878, 0130450043, 9130450043,
(APPLICATIONS) (BOOM LIFT ARMS ON TRUCKS)
(LATENT PAVING BOX EQUIPMENT, ETC.)
(FOR A CCW MOTOR USE NUMBER W-8857)

3 & 9 THRU BOLT POSITION

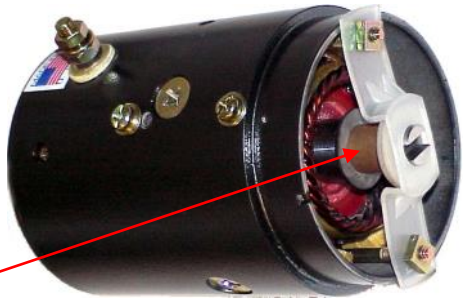
.256"/ 6.50mm Shaft slot



CUT DOWN DE DIAMETER
OF FIELD FRAME IS 4.150"

12V (CW) SPECIAL SLOT SHAFT MOTOR *WITH*
"BUSHING" TYPE SHAFT AT THE DRIVE END
"WMS" PART NUMBER, W-8958

REPLACES, M-2600, 46-812, 46-2432, 46-3564
6046, E-5622-1, W8958, MDY-7030, MDY-7058, MDY-6125S
(THRU BOLTS AT 5 & 11 POSITION)
(APPLICATIONS)
(BOSS SNOW PLOW WITH BUSHING AT THE DRIVE END)
(SKIDMORE EQUIPMENT, HALDEX BARNES PUMPS)
(CUT DOWMN DIAMETER OF THE DRIVE END FRAME IS 4.150)



.256"/ 6.50mm Shaft slot

12V (CW) "DBB" *PRIMER PUMP MOTOR W/SWITCH*

THIS IS FOR FIRE TRUCK EQUIPMENT ,

"WMS" PART NUMBER, W-6410

REPLACES, V3203, W-6210, 46-4219, MUE-6210, MUE-6210S, MUE-6310

(APPLICATIONS) (WATEROUS COMPANY, WISCONSIN ENG.)

(MOTOR HAS A SLOT SHAFT ARMATURE - USE DRIVE END FRAME FROM OLD UNIT)

(BOTH MOTORS HAVE A GROUND CABLE STUD)

12V (CW/HD) "DBB" *PRIMER PUMP MOTOR W/SW.*

THIS IS FOR FIRE TRUCK EQUIPMENT ,

"WMS" PART NUMBER, W-6510

REPLACES, V3203, W-6210, 46-4219, MUE-6210, MUE-6210S, MUE-6310

(APPLICATIONS) (WATEROUS COMPANY, WISCONSIN ENG.)

(MOTOR HAS A SLOT SHAFT ARMATURE - USE DRIVE END FRAME FROM OLD UNIT)

THIS HD UNIT IS 7"/ 177.8mm LONG

.256"/ 6.50mm Shaft slot

** OLD SCHOOL PRESTOLITE STYLE MOTOR **

(12V/CW) (4) FIELD COIL MOTOR WITH SLOT SHAFT

WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

"WMS" PART NUMBER, W-8490

REPLACES, MUE-6112, 540-004, MDY-7039, 46-4040, MDY-7070

(THIS MOTOR HAS "HD" DOUBLE LEAD BRUSH WIRES)
(ARMATURE IS BALANCED AND HAS THE WINDINGS "WELDED" TO THE COMMUTATOR AND SPECIAL BANDING ON THE WINDINGS)

(APPLICATIONS)

(COOL CARS, SHOWTIME HYD., ORLIE'S AUTO ACCESSORIES)
(PRO HOPPER, RED'S PRO SERIES, AND MANY OTHERS)

(CUT DOWN DE DIAMETER OF FIELD FRAME IS 4.150)

MOTORS ARE 6" LONG

(12V/CW) (DBB) HIGH RPM MOTOR

(2) FIELD COIL MOTOR WITH SLOT SHAFT)

"WMS" PART NUMBER, W-8273

WITH THE THRU BOLTS AT THE 3 & 9 POSITION.

REPLACES NUMBERS, MUE-6203S, W-8973, MUE-6203, 46-4070

(THIS MOTOR HAS "HD" DOUBLE LEAD BRUSH WIRES)
(ARMATURE IS BALANCED AND HAS THE WINDINGS "WELDED" TO THE COMMUTATOR AND SPECIAL BANDING ON THE WINDINGS)

(APPLICATIONS)

(COOL CARS, SHOWTIME HYD., ORLIE'S AUTO ACCESSORIES)
(PRO HOPPER, RED'S PRO SERIES, AND MANY OTHERS)

.256"/ 6.50mm Shaft slot

12V (CW/DBB) EXTENDED SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8244

REPLACES NUMBERS, 8244, 5244, DZ12, Z12

(THIS IS A "CW" VERSION OF THE W-8249)

(MOTOR HAS (4) SPECIAL SWITCH HOLES)

(Extended slot shaft is .945"/ 24.00mm out from the bearing race)

.256"/ 6.50mm Shaft slot

12V *"HD/DBB"* (CW) SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8934D

REPLACES NUMBERS, 19-17110100, 39200399,
46-250, 46-2520, MFX-4001, MFX-4002,
W8934D, DCM-0006, MMY-4002, MMY-4002S, W-8934-DBB
(APPLICATIONS) (FENNER FLUID POWER)
(VENCO, J.S. BARNES, LEYMAN, MAXON, WALTCO)
(ANTHONY, THIEMAN, MTE HYDRAULICS)
(FOR A HD 4HP MOTOR USE NUMBER W-9734D)
(FOR "CCW" USE NUMBER W-8943D)

Overall length 7"/177.8mm

.256"/ 6.50mm Shaft slot

12V "HD" (CW) SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8834

REPLACES NUMBERS, 19-17110100, 19-17110300-00, 2200794
2200949, 39200399, 422888, 46-250, 46-2018, 46-2520, 46-3550, 50021054, 85456,
9130450039, 9130450039-12, 960373, DCM-0006, M-3200HD, MFX-4001, MFX-4002
MMY-4002, MMY-6105S, MMY-4002S, W8834, M1-0399-00, M1-0499-92, MMY-6105

(APPLICATIONS) (FENNER FLUID POWER)
(MTE HYDRAULICS, J.S. BARNES, MAXON, WALTCO)
(PARKER HANNIFIN, BORG WARNER, VENCO)
(THIS MOTOR IS COMPLETE WITH THE DE FRAME)

CLOCKWISE ROTATION

12V (CW) SLOT SHAFT MOTOR W/6203 BEARING

"WMS" PART NUMBER, W-8206

REPLACES NUMBERS, W8206-12V-1.5KW, W8206

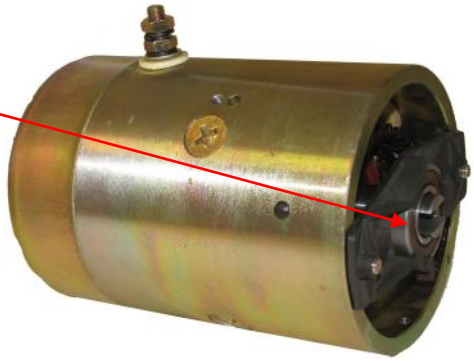
(THIS MOTOR USE'S A 6203 BEARING AT THE SLOT END)

(MOTOR HAS (2) SPECIAL SWITCH HOLES)

(Slot shaft is .158"/ 4.00mm out past the 6203 bearing race)

(For a two post insulated ground motor use number W-8210)

(Shaft slot area is .669"/ 16.99mm diameter & slot width is .315"/ 8.00mm)



HAS 6-203 BALL BEARING AT DE

.315"/ .800mm Shaft slot

.256”/ 6.50mm Shaft slot

12V (CCW) *(DBB)* “LEE” STYLE MOTOR

“WMS” PART NUMBER, W-1712

(APPLICATIONS) (LEE ENGINEERING AND PRESTO LIFT PUMPS)

(THIS IS A “CCW” VERSION OF NUMBER W-1711)

(THE RAISED RING DIAMETER IS 3”/ 76.2mm)

This motor is 7” long

.256”/ 6.50mm Shaft slot

12V CCW HD/DBB (4) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 5 & 11 POSITION

“WMS” PART NUMBER, W-7692G

REPLACES NUMBERS, MDY6101, MDY6102, MDY6119, MDY6122, W7692G, MDY7050, MDY7057, MDY7059, MUE6104, M3100, W-8992D

(APPLICATIONS) (ANTHONY, J.S. BARNES, EAGLE,)

(TOMMY LIFTS, THIEMAN, MAXON, BIG JOE,)

(MONARCH, LEYMAN, WALTCO, MTE HYDRAULICS)

With Overload Protection

5 & 11 THRU BOLT POSITION

.256”/ 6.50mm Shaft slot

12V (CCW) (4) FIELD SLOT SHAFT MOTOR W/OLP

“WMS” PART NUMBER, W-8992A

REPLACES NUMBERS, MDY6101, MDY6102, MDY6119, MDY7050, MDY7057, MDY7059, MUE6104,

(APPLICATIONS) (ANTHONY, J.S. BARNES, EAGLE,)

(TOMMY LIFTS, THIEMAN, MAXON, BIG JOE,)

(MONARCH, LEYMAN, WALTCO, MTE HYDRAULICS)

(THE W-8992 TYPE MOTORS HAVE (3) FIELD COILS & (1) SHUNT COIL)

5 & 11 THRU BOLT POSITION

.256”/ 6.50mm Shaft slot

12V (CCW) (4) FIELD SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-8992C

REPLACES THE SAME NUMBERS LISTED BELOW ONLY
THE W-8992C HAS THE FIELD FRAME CUT DOWN.

(CUT DOWN DE DIAMETER OF FIELD FRAME IS 4.150)

* POPULAR CCW *
SLOT SHAFT MOTOR

.256”/ 6.50mm Shaft slots

12V (CCW/DBB) (4) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

“WMS” PART NUMBER, W-8992D

REPLACES NUMBERS, MDY6101, MDY6102, MDY6119
W8992D, W8992, MDY7050, MDY7057, MDY7059, MUE6104, W-8992

(APPLICATIONS) (ANTHONY, J.S. BARNES, EAGLE,)

(TOMMY LIFTS, THIEMAN, MAXON, BIG JOE,)

(MONARCH, LEYMAN, WALTCO, MTE HYDRAULICS)

(THE W-8992D TYPE MOTORS HAVE (3) FIELD COILS & (1) SHUNT COIL)

12V (CCW) SLOT SHAFT MOTOR W/SWITCH

"WMS" PART NUMBER, W-8745

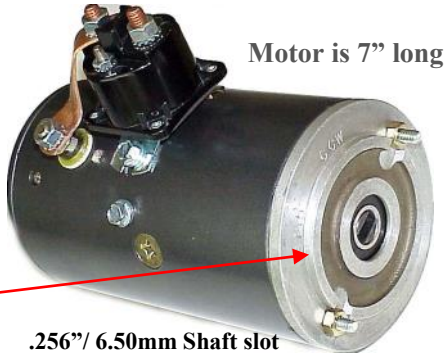
REPLACES NUMBERS, W8745, 46-4217, MMY6103, MMY-6103

(THRU BOLTS ARE AT THE 3 & 9 POSITION)

(APPLICATIONS)

(WILLIAMS MACHINE, MTE HYDRAULICS, J.S. BARNES)

(THE RAISED RING DIAMETER IS 3.25"/ 82.55mm)



Motor is 7" long

.256"/ 6.50mm Shaft slot

12V (CCW/DBB) " WILLIAMS STYLE MOTOR "

"WMS" PART NUMBER, W-8767

REPLACES NUMBERS, 46-4215, MUE-6211, MUE6211

(APPLICATION) (WILLIAMS MACHINE & TOOL CO. PUMPS)

(THE THRU BOLTS ARE IN THE 5 & 11 POSITION)

(THE RAISED RING DIAMETER IS 3.25"/ 82.55mm)

(FOR A MOTOR WITH THE THRU BOLTS IN THE 3 & 9 POSITION USE MOTOR NUMBER W-8770)

.256"/ 6.50mm Shaft slot

12V (CCW / HIGH RPM) " WILLIAMS STYLE MOTOR "

"WMS" PART NUMBER, W-8767A

REPLACES NUMBERS, W8767A, 46-4215, MUE-6211 (W/OLP)

MUE6211, A-5, & W-1766, PISTON PUMP MOTOR

(APPLICATION) (WILLIAMS MACHINE & TOOL PUMPS)

(THE RAISED RING DIAMETER IS 3.25"/ 82.55mm)

(THE THRU BOLTS ARE IN 5 & 11 POSITION)

"WITH OVERLOAD"

.256"/ 6.50mm Shaft slot

12V (CCW/DBB) " WILLIAMS STYLE MOTOR "

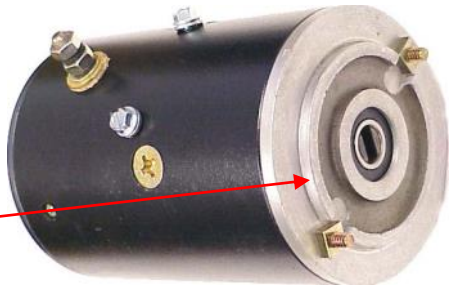
"WMS" PART NUMBER, W-8770

(APPLICATION) (WILLIAMS MACHINE & TOOL CO. PUMPS)

(THE THRU BOLTS ARE IN THE 3 & 9 POSITION)

(THE RAISED RING DIAMETER IS 3.25"/ 82.55mm)

(FOR A MOTOR WITH THE THRU BOLTS IN THE 5 & 11 POSITION USE MOTOR NUMBER W-8767)



.256"/ 6.50mm Shaft slot

12V (CCW) *(DBB)* "WILLIAMS" STYLE MOTOR

"WMS" PART NUMBER, W-1770

(APPLICATIONS) (WILLIAMS MACHINE & TOOL PISTON PUMP)

(THE RAISED RING DIA. IS 3.25"/ 82.55mm)

(SCISSORS LIFTS ETC.)

FOR THE BLACK PRESTOLITE STYLE USE NUMBER W-8770

.256"/ 6.50mm Shaft slot

.256"/ 6.50mm Shaft slot

12V (CCW) SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8999A

(THIS MOTOR HAS "OVERLOAD PROTECTION)

(THRU BOLTS ARE AT THE 5 & 11 POSITION)
(MULTI SWITCH HOLES IN CASE FOR MORE COVERAGE)

REPLACES NUMBERS,
229272100, W8999A, MUE6201A, MUE6201CS, 46-4169, 39200467)

5 & 11 THRU BOLT POSITION

12V (CCW/DBB) MOTOR (2) FIELD COIL MOTOR)

"WMS" PART NUMBER, W-8999B

(THIS MOTOR HAS OVERLOAD PROTECTION")

REPLACES NUMBERS, MUE6201A, MUE6201AS

46-4169, W8999B, MUE-6201A, 39200467, MUE-6201AS

(APPLICATIONS) (MTE HYDRAULICS, MAXON LIFT CORP.)

(THIS IS A "DOUBLE BALL BEARING VERSION OF THE W-8999A)

.256"/ 6.50mm Shaft slots

5 & 11 THRU BOLT POSITION

12V (CCW) SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8999C

(2) FIELD COIL HIGH RPM MOTOR)

REPLACES NUMBERS, 46-2624, 2200478, 2200820, MUE-7006, 200776
39200292, 39200380, W8999C, 9130450064, 016579, 9130450081
913045008112, MUE-7004, MUE-6201, 9130450032, 2200849, 2200727

(APPLICATIONS) (MTE HYDRAULICS, WALTCO)
(ANTHONY EQUIP., HALDEX/BARNES, MONARCH HYDRAULICS)

(CUT DOWN DE DIAMETER OF FIELD FRAME IS 4.150)

* VERY POPULAR CCW *
12V SLOT SHAFT MOTOR

12V (CCW) SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8999D

(2) FIELD COIL HIGH RPM MOTOR)

REPLACES NUMBERS, 46-2624, 2200478, 2200820, MUE-7006,
W8999, W8999D, 39200292, 39200380, 9130450064, 016579, 9130450081
913045008112, MUE-7004, MUE-6201, 9130450032, 2200849, 2200727

(APPLICATIONS) (ANTHONY EQUIPMENT, HALDEX/BARNES)
(WALTCO, MONARCH HYDRAULICS, MTE HYDRAULICS)

12V (CCW) SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8999G

(2) FIELD COIL HIGH RPM MOTOR)

REPLACES NUMBERS, W8999G

(APPLICATIONS) (ANTHONY EQUIPMENT, HALDEX/BARNES)
(WALTCO, MONARCH HYDRAULICS, MTE HYDRAULICS)

(Motor has a ground cable stud)

12V (CCW) DBB MOTOR
"AMETEK" PART NUMER, MUE6301B

REPLACES NUMBERS, MUE6201, MUE6301,2200849, 2201094
3060019, 39200388, 39200443, 160-843A,,203T3809, 2200727
39200443, MUE6301, W-8999, 91304500081, 22001094, W-8999D

(THRU BOLTS ARE AT THE 5 & 11 POSITION)
(APPLICATIONS) (MTE HYDRAULICS, ANTHONY EQUIPMENT,HALDEX/BARNES, WALTCO, MONARCH HYD.)

.256"/ 6.50mm Shaft slot

12V (CCW/DBB (4) FIELD COIL MOTOR
"WMS" PART NUMER, W-8799D

REPLACES NUMBERS,
2200654, MUE6108, MUE7005, 39200380
MUE6106, W-8892, W-8799D, W-8799, 39200292,

(THRU BOLTS ARE AT THE 5 & 11 POSITION)
(APPLICATIONS) (MTE HYDRAULICS, ANTHONY EQUIPMENT,HALDEX/BARNES, WALTCO, MONARCH HYD.)

.256"/ 6.50mm Shaft slot

12V (CCW) (4) FIELD SLOT SHAFT MOTOR
"WMS" PART NUMBER, W-6105

REPLACES NUMBERS,
W6105, MDY-6141S, 46-3576, MDY-6104
(APPLICATIONS) (OLD STYLE FISHER SNOW PLOWS)
(J. S. BARNES, AND STONE HYDRAULICS)
(THRU BOLTS ARE AT THE 5 & 11 POSITION)
(FOR A MOTOR COMPLETE WITH THE DRIVE END FRAME USE W-6104)

.256"/ 6.50mm Shaft slot

12V (CCW) (4) FIELD SLOT SHAFT MOTOR
"WMS" PART NUMBER, W-6104

REPLACES NUMBERS, 016230, 2200011, 46-178, 46-3576
W-6104, W9104, MDY-6104, MDY-6104S, MDY-6141, MDY-6141S
(APPLICATIONS) (MONARCH HYD., EASTERN & MTE INDUSTRIES)
(THIS IS A 6.5" LONG STANDARD DUTY VERSION OF A W-9104)
(FOR A "DBB" MOTOR USE NUMBER W-6104C)

.256"/ 6.50mm Shaft slot

12V (CCW) (4) FIELD SLOT SHAFT MOTOR
"WMS" PART NUMBER, W-9104

REPLACES NUMBERS, 016230, 2200011, 46-178, 46-3576
W-6104, W9104, MDY-6104, MDY-6104S, MDY-6141, MDY-6141S
(APPLICATIONS) (MONARCH HYD., EASTERN & MTE INDUSTRIES)
(THIS IS A 7.5" LONG HEAVY DUTY VERSION OF A W-6104)

.256"/ 6.50mm Shaft slot

.256"/ 6.50mm Shaft slot

THIS MOTOR IS THE "MOST POPULAR" CCW 12V SLOT SHAFT MOTOR

12V(CCW/DBB) (2) FIELD "HIGH RPM" SLOT SHA/MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"WMS" PART NUMBER, W-8911D

REPLACES, 46-4058, W8911, 108111E, 11212484, W-8911
08111A, 08111D, 08111E, MUE6202S, 5008111, 8111D, MUE6302S
801-00845, 8111, 8111A, 8111B, 8111D, 8111E, MUE-6202, MUE-6302S
W8911D, 08111B, 3130105, M3190112, 700092514, 319-0112, 80100845, M3100262

(APPLICATIONS)
(CESSNA, DYNAJACK, TOMMY LIFTS, MTE, BUCHER, MONARCH)

.256"/ 6.50mm Shaft slot

12V (CCW/DBB) (2) FIELD MOTOR

"AMETEK" PART NUMBER, MUE6302

(.256" slot width) (Slot is recessed into bearing) (3 & 9 thru bolts)

REPLACES NUMBERS, W-8911, W-8911D
MUE6302S, 8111, 8111D, 8111E, MUE6202S

(APPLICATIONS)
(BUCHER HYDRAULICS, MONARCH HYDRUALICS)

.256"/ 6.50mm Shaft slot

12V (CCW) (2) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"WMS" PART NUMBER, W-8911B

REPLACES, W8911B, 46-4201, MUE-6202BS, 08024, MUE-6202B

(THIS MOTOR HAS TWO EXTRA SCREW HOLES AT THE DE OF FIELD CASE)

(APPLICATIONS) (MONARCH & BUCHER HYDRAULICS)

(For a "Double Ball Bearing" motor use number W-8911C)

.256"/ 6.50mm Shaft slot

12V (CCW/DBB) (2) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"WMS" PART NUMBER, W-8911C

REPLACES, W8911B, 46-4201, MUE-6202BS, 08024, MUE-6202B

(THIS MOTOR HAS TWO EXTRA SCREW HOLES AT THE DE OF FIELD CASE)

(APPLICATIONS) (MONARCH & BUCHER HYDRAULICS)

(DBB version of the W-8911B)

.256"/ 6.50mm Shaft slot

12V (CCW) (2) FIELD SLOT SHAFT MOTOR W/BUSHING CE

"WMS" PART NUMBER, W-8911

REPLACES, W8911S, W-9002, 08058, MUE6302, 8058 etc.

(APPLICATIONS) (MONARCH HYDRAULICS)

(TOMMY LIFTS, THIEMAN TAILGATES, EASTERN & MTE INDUSTRIES)

12V (CCW) (2) FIELD "DBB" SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8911G

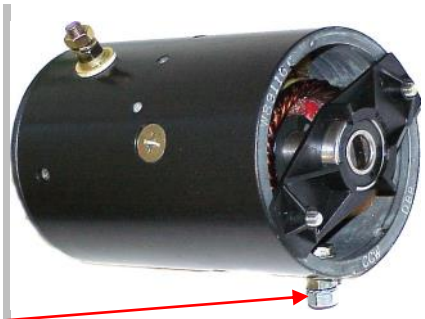
REPLACES NUMBERS,

W8911G, 46-4161, MUE6205, MUE-6205S

(APPLICATIONS) (MONARCH HYDRAULICS)

(TOMMY LIFTS, THIEMAN TAILGATES, EASTERN & MTE INDUSTRIES)

(THIS MOTOR HAS A GROUND STUD ON THE FIELD FRAME AS SHOWN)



.256"/ 6.50mm Shaft slot

12V (CCW) (2) FIELD "HIGH RPM" DBB SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"WMS" PART NUMBER, W-8911K

REPLACES, W8911A, MUE-6202A, W8911K, MHN-4006, MUE-6302A, 46-4168

(APPLICATIONS) (MONARCH & BUCHER HYDRAULICS)

(THIS MOTOR HAS "OVERLOAD" PROTECTION)

12V (CCW) (2) FIELD "HIGH RPM" DBB SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"AMETEK" PART NUMBER, MUE6302A

REPLACES, W8911A, MUE-6202A, MHN-4006, W-8911K, 46-4168

(APPLICATIONS) (MONARCH & BUCHER HYDRAULICS)

(THIS MOTOR HAS "OVERLOAD" PROTECTION)

.256"/ 6.50mm Shaft slot

12V (CCW) SPECIAL SLOT SHAFT MOTOR *WITH*

"BUSHING" TYPE SHAFT AT THE DRIVE END

"WMS" PART NUMBER, W-8760

REPLACES NUMBERS, W-8958-CCW, W8760

(THRU BOLTS AT 5 & 11 POSITION)

(APPLICATIONS)

(SKIDMORE EQUIPMENT, HALDEX BARNES PUMPS)

(CUT DOWN DE DIAMETER OF FIELD FRAME IS 4.150")

.256"/ 6.50mm Shaft slot

12V (CCW) (4) FIELD SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8985

(BOSS SNOW PLOW MOTOR WITH "BEARING" DRIVE END)

(THRU BOLTS AT 5 & 11 POSITION)

(APPLICATIONS) (J.S. BARNES PUMP, BOSS SNOW PLOW)

(CUT DOWN DE DIAMETER OF FIELD FRAME IS 4.150")

.256"/ 6.50mm Shaft slot

.256"/ 6.50mm Shaft slot

12V (CCW) (2) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"WMS" PART NUMBER, W-9000

REPLACES NUMBERS, 2200480, W9000, 08111B
46-2617, M3260158, MUE6001, MUE6006, MUE6105, MUE7003, 2200478
(APPLICATIONS) (BUCHER / MONARCH HYDRAULICS)
(TOMMY LIFTS, THIEMAN TAILGATES, EASTERN & MTE INDUSTRIES)

4 SERIES FIELD COILS

.256"/ 6.50mm Shaft slot

THIS MOTOR IS A
"VERY POPULAR" CCW
12V SLOT SHAFT MOTOR

12V (CCW) (4) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"WMS" PART NUMBER, W-9993

REPLACES, 4423520, MHN-4001, MHN-4003, MHN-4005, 8112
M3100, 2200653, 540-003, MUE-6107, W9993, 8080, 5008112, 46-948
(APPLICATIONS) (BUCHER / MONARCH HYDRAULICS)
(TOMMY LIFTS, THIEMAN TAILGATES, EASTERN & MTE INDUSTRIES)

.256"/ 6.50mm Shaft slot

12V *(DBB) (4) FIELD* (CCW) SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-9993D

REPLACES NUMBERS,
4423520, 46-948, 8080, MHN-4001, MHN-4003, MHN-4005, MHN-4006,
M3100, 2200653, 540-003, MUE-6107, W9993D, MUE-6112, 8092, 8112, 5008112
(APPLICATIONS) (BUCHER / MONARCH HYDRAULICS)
(TOMMY LIFTS, THIEMAN TAILGATES, EASTERN & MTE INDUSTRIES)
(THE W-9993D TYPE MOTORS HAVE (4) SERIES FIELD COILS)

.256"/ 6.50mm Shaft slot

OVERLOAD PROTECTION

12V (CCW) (4) FIELD SLOT SHAFT MOTOR W/OLP

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"WMS" PART NUMBER, W-9993A

REPLACES, W-9993A, 08092, W9993A, P34027,
(APPLICATIONS) (BUCHER / MONARCH HYDRAULICS)
(TOMMY LIFTS, THIEMAN TAILGATES, EASTERN & MTE INDUSTRIES)
(THE W-9993D TYPE MOTORS HAVE (4) SERIES FIELD COILS)

.256"/ 6.50mm Shaft slot

12V (CCW/DBB) (4) FIELD SLOT SHAFT MOTOR W/OLP

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"WMS" PART NUMBER, W-9993K

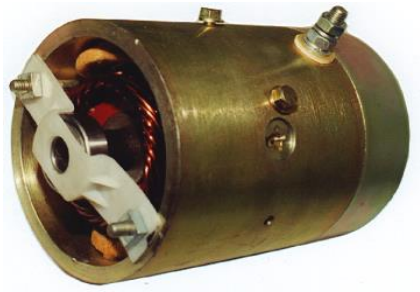
REPLACES, W-9993A, 08092, W9993A, W9993K, P34027,
(APPLICATIONS) (BUCHER / MONARCH HYDRAULICS)
(TOMMY LIFTS, THIEMAN TAILGATES, EASTERN & MTE INDUSTRIES)
(THE W-9993D TYPE MOTORS HAVE (4) SERIES FIELD COILS)

12V (CCW/DBB) (4) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"WMS" PART NUMBER, W-8996

REPLACES, 46-948, W8996, MHN-4001, MHN-4003, MHN-4005
W-8993D, M3100, 2200653, 540-003, MUE-6107, 8080, 8092, 5008112
(APPLICATIONS (BUCHER HYDRAULICS, MONARCH HYDRUALICS)
(CESSNA, TOMMY LIFTS, EASTERN & MTE INDUSTRIES)
(THIS MOTOR HAS (3) FIELD COILS & (1) SHUNT COIL)



.256"/ 6.50mm Shaft slot

12V (CCW) (4) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION

"WMS" PART NUMBER, W-8993

REPLACES, W8993D, 46-948, MHN-4001, MHN-4003, MHN-4005
M3100, 2200653, 540-003, W8993, MUE-6107, 8080, 8092, 5008112
(APPLICATIONS (BUCHER HYDRAULICS, MONARCH HYDRUALICS)
(CESSNA, TOMMY LIFTS, EASTERN & MTE INDUSTRIES)
(THE W-8993D TYPE MOTORS HAVE (3) FIELD COILS & (1) SHUNT COIL)

.256"/ 6.50mm Shaft slot

* VERY POPULAR CCW *
12V SLOT SHAFT MOTOR

12V *(DBB /* CCW) SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8993D

THIS IS A "DBB" VERSION OF THE ABOVE MOTOR

(APPLICATIONS (BUCHER HYDRAULICS, MONARCH HYDRUALICS)
(CESSNA, TOMMY LIFTS, EASTERN & MTE INDUSTRIES)
(THIS MOTOR HAS (3) FIELD COILS & (1) SHUNT COIL)

.256"/ 6.50mm Shaft slots

12V (CCW) "DBB" SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-9293D

REPLACES, W9293D, MUP-6301S, 46-948, MHN-4001, 46-4166, MUP6301S
MHN-4001S, MUE-6107, MHN4001, 8080, 8112, 8112P, MUP-6201S, MUP6201S
(APPLICATIONS) (LEYMAN MFG., MONARCH HYDRAULICS)
(CESSNA, TOMMY LIFTS, EASTERN & MTE INDUSTRIES)
(THIS MOTOR HAS (2) FIELD COILS & (2) SHUNT COILS)

* VERY POPULAR CCW *
12V SLOT SHAFT MOTOR

12V (CCW) "DBB" SLOT SHAFT MOTOR

"AMETEK" PART NUMBER, MUP6301

REPLACES NUMBER,
W-9293D, 08112P, 8112, W-8993D, 46-4166, MUP6301S, MUP6201S
(APPLICATIONS) (BUCHER HYDRAULICS, MONARCH HYDRUALICS)
(THIS MOTOR HAS (2) FIELD COILS & (2) SHUNT COILS)

.256"/ 6.50mm Shaft slot

.256”/ 6.50mm Shaft slot

12V (CCW) *(DBB) MOTOR WITH .591 DIA. SHAFT*

“WMS” PART NUMBER, W-8013B

REPLACES NUMBERS, 08013, M326-0189
W8013B, W-8013C, M-3260189, AMJ4735, 11.216.088, 3260189

(APPLICATIONS) SPX, MTE & MONARCH PUMPS

(SHAFT IS OUT 0.750/19.05mm FROM BEARING RACE)

.591”/ 15.01mm DIAMETER SHAFT & .256”/6.50mm SLOT

(The switch holes are offset to the “Left” of the terminal post)

(THRU BOLTS ARE AT THE 3 & 9 POSITION)

3 & 9 Thru bolt position

12V (CCW) *(DBB) MOTOR WITH .591 DIA. SHAFT*

“WMS” PART NUMBER, W-8013C

REPLACES NUMBERS, W8013C, 08013, M326-0189
W-8013B, M-3260189, AMJ4735, 11.216.088, 3260189

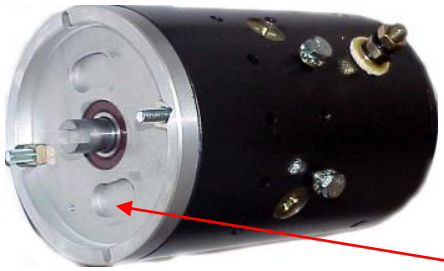
(APPLICATIONS) MONARCH PUMPS

(.256 SLOT SHAFT IS OUT 0.750/19.05mm FROM BEARING RACE)

(The switch holes are offset to the “Left” of the terminal post)

(THRU BOLTS ARE AT THE 3 & 9 POSITION)

.256”/ 6.50mm Shaft slots



5 & 11 Thru bolt position

12V CCW/DBB (2) FIELD SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-8213

REPLACES, W8213, S203T*5030, 281740-01, S203T5030, 39200517

(APPLICATIONS) (SPX, MONARCH, MAXON, MTE HYDRAULICS)

(.256 SLOT SHAFT IS OUT 0.750/19.05mm FROM BEARING RACE)

(The switch holes are offset to the “Right” of the terminal post
The face of the DE frame has two oval recesses)

(THRU BOLTS ARE AT THE 5 & 11 POSITION)

5 & 11 Thru bolt position

12V (CCW) 4.5” DIAMETER MOTOR W/OLP

“WMS” PART NUMBER, W-8213A

REPLACES NUMBERS, 39200532, MUE6301DS, W8213A

(APPLICATIONS) (SPX, MONARCH, MAXON, MTE HYDRAULICS)

.256 slot shaft is 0.750”/19.05mm out from the ball bearing race

(The switch holes are offset to the “Right” of the terminal post
The face of the DE frame has two oval recesses)

(THRU BOLTS ARE AT THE 5 & 11 POSITION)

12V (CCW/*DBB) MOTOR WITH .591 DIA. SHAFT & OLP*

"WMS" PART NUMBER, W-8238A

REPLACES NUMBERS,
W8238, 70469430, S202*5287, K639629, 39200547

(APPLICATIONS) SPX, MTE & WALTCO PUMPS

(SHAFT IS OUT 0.750/19.05mm FROM BEARING RACE)

.591"/ 15.01mm DIAMETER SHAFT & .256"/6.50mm SLOT

(SWITCH HOLES ARE STANDARD CENTER TO THE TERMINAL)

(THRU BOLTS ARE AT THE 3 & 9 POSITION)

12V (CCW / DBB "HD" SLOT SHAFT MOTOR
WITH OVERLOAD PROTECTION *3HP*

"WMS" PART NUMBER, W-9305A

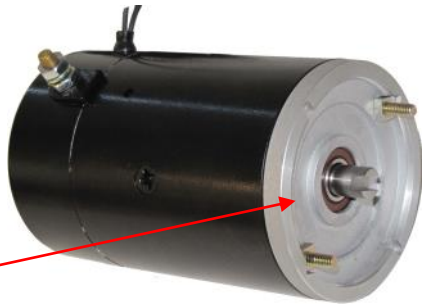
REPLACES, W9305A, MMY6305A, 39200536, MMY6305AS

(APPLICATIONS) MTE HYDRAULICS

The face of the DE frame has a recess)

(Field frame has 4 switch holes for switch mounting)

(For a motor without overload protection use W-9305 or MMY6305)



.256"/ 6.50mm Shaft slot
is .750"/19.05mm from bearing

OVERLOAD PROTECTION

12V (CCW / DBB "HD" SLOT SHAFT MOTOR *3HP*

"WMS" PART NUMBER, W-9305

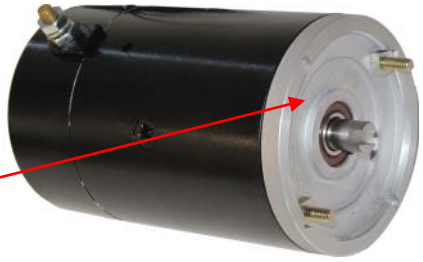
REPLACES NUMBERS,
MMY6305, 268337-01, W9305, 39200518, MMY6305S

(APPLICATIONS) MTE HYDRAULICS

The face of the DE frame has a recess)

(The switch holes are offset to the "Right" of the terminal post

(For a motor with overload protection use W-9305A or MMY6305A)



.256"/ 6.50mm Shaft slot
is .750"/19.05mm from bearing

12V (CCW) 4.5" DIAMETER MOTOR W/OLP

"AMETEK" PART NUMBER, MUE6301D

REPLACES NUMBERS, 39200532, MUE6301DS, W-8213A
(APPLICATIONS)
(SPX, MONARCH, MAXON, MTE HYDRAULICS)
Thru bolts are at 5 & 11 position
.256 slot shaft is 0.750"/19.05mm out from the ball bearing race

The face of the DE frame has a recess)

(The switch holes are offset to the "Right" of the terminal post

.256"/ 6.50mm Shaft slot

OVERLOAD PROTECTION

.256”/ 6.50mm Shaft slot
is .750”/19.05mm from bearing

OVERLOAD PROTECTION

“AMETEK” PART NUMBER, MMY6305A

12V (CCW) HD/DBB SLOT SHAFT MOTOR W/OLP

REPLACES, W-9305A, MMY6305, 39200536, MMY6305AS

(APPLICATIONS) MTE HYDRAULICS

(The face of the DE frame has two oval recesses)
(The switch holes are offset to the “Right” of the terminal post)

(For a motor without overload protection use MMY6305)

(4.6 HP @ MAX/OUTPUT <> 1900 / 5100 RPM)

.256”/ 6.50mm Shaft slot
is .750”/19.05mm from bearing

“AMETEK” PART NUMBER, MMY6305

12V (CCW) HD/DBB SLOT SHAFT MOTOR

REPLACES NUMBERS,

W-9305, MMY-6305, 268337-01, 39200518, MMY6305S

(APPLICATIONS) MTE HYDRAULICS

(The face of the DE frame has two oval recesses)
(The switch holes are offset to the “Right” of the terminal post)

(For a motor with overload protection use MMY6305A)

(4.6 HP @ MAX/OUTPUT <> 1900 / 5100 RPM)

.256”/ 6.50mm Shaft slots

12V (CCW / DBB “HD” SLOT SHAFT MOTOR WITH OVERLOAD PROTECTION *3HP*

“WMS” PART NUMBER, W-9743A

REPLACES NUMBERS, W9743A, W9743D, HD/W-8943K

(APPLICATIONS)
(MONARCH HYD., EASTERN & MTE INDUSTRIES)

(THIS MOTOR IS 7” LONG AND HAS SPECIAL/ PARALLEL COILS FOR MORE POWER)

.256”/ 6.50mm Shaft slots

12V (CCW / DBB “HD” SLOT SHAFT MOTOR *3HP*

“WMS” PART NUMBER, W-9743D

REPLACES NUMBERS, W9743, W9743D, HD/W-9943D

(APPLICATIONS)
(MONARCH HYD., EASTERN & MTE INDUSTRIES)

(THIS MOTOR IS 7” LONG AND HAS SPECIAL/ PARALLEL COILS FOR MORE POWER)

***12V* (CCW) SPECIAL SLOT SHAFT MOTOR**

"BUSHING" TYPE SHAFT AT THE DRIVE END SLOT

"WMS" PART NUMBER, W-8857

(THRU BOLTS AT 3 & 9 POSITION)

REPLACES, W8857, WAPSA MOTORS

(THIS IS A CCW VERSION OF MOTOR NUMBER W-8878)

.256"/ 6.50mm Shaft slot

***12V* (CCW / DBB "HD" SLOT SHAFT MOTOR ***

"WMS" PART NUMBER, W-9995D

REPLACES NUMBERS,
W9995, W9995D,

(APPLICATIONS)
(MONARCH / BUCHER HYD., EASTERN & MTE INDUSTRIES)

(Diameter of the lower end of the field frame is cut down to 4.407" / 111.94mm and 0.300"/ 7.62mm back)

.256"/ 6.50mm Shaft slot

12V* "CCW" *(3.7" diameter) SLOT SHA/MOTOR

"WMS" PART NUMBER, W-3528

REPLACES, IM0024, 201*4608, 39200428C, W3528, 39200428
S201*4608, AMF-4613, AMF-4633, 11.212.440, 11.212.598, 39200428F,

(APPLICATIONS)

(DURAFORM , MTE, MOTOR HOME LEVELERS ETC.)

.256"/ 6.50mm Shaft slot

12V* "CCW" *(3.7" diameter) SLOT SHA/MOTOR

"WMS" PART NUMBER, W-3589

REPLACES NUMBERS, W3589, 11216493, 8189
IM0216, AMF4665, IM0216, AMF-4665, 08189, 11.216.493

(APPLICATIONS)

(MONARCH / BUCHER HYDRAULICS)

.256"/ 6.50mm Shaft slot

12V "CCW" (DBB) *MOTOR WITH .625" DIA. SHAFT*

"WMS" PART NUMBER, W-8620

REPLACES NUMBERS, W8620, BA3620-0005, BA3620-2225

(APPLICATIONS) (SPECIALIZED EQUIPMENT)

(THE RAISED RING DIAMETER ON DRIVE END IS 3")

(SHAFT HAS A .1875 HOLE AND A SHORT KEY SLOT)

(DE FRAME HAS FOUR 1/4X20 THREADED MOUNTING HOLES)

Motor length is 7"

12V (CCW) MOTOR

"WMS" PART NUMBER, W-6102C

REPLACES, W6102, W6102C, HD MBG-4111, MDY6109, MDY6120 etc.

(APPLICATIONS)

(MONARCH HYD., EASTERN, HALDEX & MTE INDUSTRIES

(THIS IS A 4.5" DIAMETER HD VERSION OF A MBG4111)

.256"/ 6.50mm Shaft slot

12V (CCW) "DBB" MOTOR

"WMS" PART NUMBER, W-6104C

REPLACES NUMBERS, 016230, 2200011, 46-178, 46-3576

W6104, W9104, MDY-6104, W6104C, MDY-6104S, MDY-6141, MDY-6141S

(APPLICATIONS) (MONARCH HYD., HALDEX & MTE INDUSTRIES)

(THIS IS A 4.5" DIAMETER HD VERSION OF A MZ4201)

(GROUND TERM / STUD)

12V (CCW) (4) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION.

"WMS" PART NUMBER, W-8648

(APPLICATIONS) W8648, (OASIS OFF ROAD)

(OASIS MANUFACTURING AIR COMPRESSOR)

(THIS MOTOR HAS "OVERLOAD" PROTECTION)

12V (CCW) (4) FIELD SHAFT MOTOR

WITH THE THRU BOLTS AT THE 3 & 9 POSITION.

"WMS" PART NUMBER, W-8649

(APPLICATIONS) W8649, (OASIS OFF ROAD)

(OASIS MANUFACTURING AIR COMPRESSOR)

(THIS MOTOR HAS "OVERLOAD" PROTECTION)

***6V* (CCW) (4) FIELD SLOT SHAFT MOTOR**

"WMS" PART NUMBER, MZ4186RM

REPLACES NUMBERS, MZ4186, 46-160, MZ-4186

(APPLICATIONS) (J. S. BARNES, HALDEX etc.)

(REMANUFACTURED MOTOR WITH CORE CHARGE)

(For 12V use number MBG4111RM or New motor number W-6102C)

Motor diameter is 4"

.256"/ 6.50mm Shaft slot

***12V* (CCW) (4) FIELD SLOT SHAFT MOTOR**

"WMS" PART NUMBER, MBG4111RM

REPLACES NUMBERS, MBG4111, 46-523, MBG-4111

(APPLICATIONS) (J. S. BARNES, HALDEX etc.)

(REMANUFACTURED MOTOR WITH CORE CHARGE)

(For a new 4.5" diameter motor W/O a core charge use W-6102C)

Motor diameter is 4"

.256"/ 6.50mm Shaft slot

***12V* (CCW) (4) FIELD SLOT SHAFT MOTOR**

"WMS" PART NUMBER, MZ4201RM

REPLACES NUMBERS, MZ4201, 160-825A, 46-214, MZ-4201

(APPLICATIONS)

(MONARCH EQUIPMENT, <> J. S. BARNES, etc.)

(REMANUFACTURED MOTOR WITH CORE CHARGE)

(For a new 4.5" diameter motor W/O a core charge use W-6104C)

Motor length is 6.5"

.256"/ 6.50mm Shaft slot

***12V* (CCW) (4) FIELD SLOT SHAFT MOTOR**

"WMS" PART NUMBER, MZ4210RM

REPLACES NUMBERS, MZ4210, 46-872, MZ-4210

(APPLICATIONS) (J. S. BARNES, HALDEX etc.)

(The drive end casting is for shipping only, it must be removed before installing the motor to the pump)

Motor diameter is 4"

.256"/ 6.50mm Shaft slot

***12V* "HD" (CCW / DBB) SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W-8946

REPLACES NUMBERS,

W8946, 46-2616, MMW-4003, MMW-4003S, 2200339,

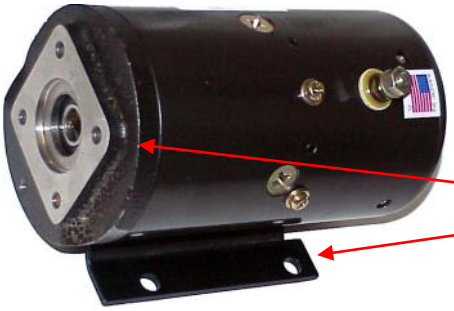
(APPLICATIONS) (J. S. BARNES, HALDEX etc.)

(FOR A MOTOR WITH A MOUNTING BASE ON THE FIELD FRAME USE MMW4003N)

.256"/ 6.50mm Shaft slot

Motor length is 7"

Overall length 7.25”/184.15mm



.256”/ 6.50mm Shaft slot

12V “HD” (CCW / DBB) SLOT SHAFT MOTOR

“WMS” PART NUMBER, MMW4003NWD

REPLACES NUMBERS, MMW4003, MMW4003S, W-8946, 46-2616, MMW4003N, W-8946WB, MMW-4003, MMW-4003NWD, MMW-4003S, 2200339

(APPLICATIONS) (J.S. BARNES CORP.)

(MOTOR COMES COMPLETE WITH THE MOUNTING PLATE AND THE DRIVE END FRAME AS SHOWN)

(FOR A MOTOR W/O THE DE & BASE PLATE ORDER PART NUMBER W-8946)

With Overload Protection

12V (CCW) (4) FIELD SLOT SHAFT MOTOR W/OLP

Motor is 7” (177.8mm) long with 3 & 9 position thru bolts

“WMS” PART NUMBER, W-8943K

REPLACES NUMBERS, P33994A

W8943K, 33994A, 34027, 08003, 08003B, 08196, 08196B

(APPLICATIONS) (J. S. BARNES, STONE HYDRAULICS, SPX)

Overall length 6.87”/174.7mm

.256”/ 6.50mm Shaft slot

12V “HD” (CCW / DBB) SLOT SHA/MOTOR (Spec/length)

“WMS” PART NUMBER, W-8843

REP. W8843D, 250093, 983760442, 033830, 2500093, 591033830, 39200506

(APPLICATIONS) (M-547 MONARCH, MTE HYDRAULICS)

THIS MOTOR HAS A “SPECIAL” LENGTH FIELD FRAME WHICH IS 6.625”/168.27mm LONG SO IT CAN FIT INTO A BRACKET.

With Overload Protection

.256”/ 6.50mm Shaft slot

12V “HD” (CCW) DBB SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-8843A

REPLACES NUMBERS,

W8843A, 250093, 983-760442, 2500093, 033830, 591-033830, 39200506

(APPLICATIONS)

(M-547 MONARCH, MTE HYDRAULICS)

THIS MOTOR HAS A “SPECIAL” LENGTH FIELD FRAME WHICH IS 6.625”/168.27mm LONG SO IT CAN FIT INTO A BRACKET.

Overall length 7”/177.8mm

With Overload Protection

12V “HD” (CCW) DBB SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-8945A

REPLACES NUMBERS, MFX, MMW, MMY, MOTORS

WITH THE “OFFSET” SWITCH MOUNTING HOLES.

REPLACES, MMY-4003, W8945A, 8082, 250093, 9130450046, 39200398

(APPLICATIONS)

(WAPSA, ANTHONY, MONARCH, MTE)

12V “HD” (CCW / DBB) SLOT SHAFT MOTOR

“WMS” PART NUMBER, MMW4003N

REPLACES NUMBERS, MMW4003, MMW4003S, W-8946, 46-2616
MMW-4003N, W-8946WB, MMW-4003, MMW-4003S, 2200339
(APPLICATIONS) (HALDEX BARNES, CONCENTRIC)

(MOTOR COMES COMPLETE WITH THE MOUNTING PLATE AS SHOWN)
(IF NEEDED USE THE DRIVE END FRAME FROM OLD MOTOR)
(FOR A MOTOR WITHOUT THE BASE PLATE ORDER PART NUMBER W-8946)

.256”/ 6.50mm Shaft slot

Overall length 7”/ 177.8mm

12V “HD” (CCW / DBB) SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-8943D

REPLACES, W8943D, 220-0072, 46-2495,
W8943, 46-2516, 46-2534, DCM-0007, MFX-4003,
MMW-4001, M-3100-HD, MMW-4002, MMY-4001, MMY-4004
(APPLICATIONS) (MONARCH & BUCHER HYDRAULICS)
(THIEMAN, J.S. BARNES, LEYMAN, WALTCO, MAXON, MTE)

.256”/ 6.50mm Shaft slot

12V (CCW / DBB) HD (1) POST MOTOR

“AMETEK” PART NUMBER, MMY6306

REPLACES NUMBERS, 50020501926016, 25236, 08082, 2200184,
145007, MMY6306S, 46-4038, 3260110, 4423521, 46-2516, 70091739,
9130450038, BMT0127, 11.212.484, W-8943D

(APPLICATIONS)
(MONARCH HYDRAULICS, BUCHER HYDRAULICS)

Overall length 7”/177.8mm

.256”/ 6.50mm Shaft slot

12V “HD” (CCW / DBB) SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-8945D

REPLACES NUMBERS, MFX, MMW, MMY, MOTORS
WITH THE “OFFSET” SWITCH MOUNTING HOLES.
REPLACES, MMY-4003, W8945, 8082, W8945D, 9130450046
(APPLICATIONS) (WAPSA, ANTHONY, MONARCH, MTE)

.256”/ 6.50mm Shaft slots

12V (CCW/DBB) HD MOTOR

“AMETEK “ PART NUMBER, MMY6302

REPLACES NUMBERS, W-8945C, 39200398, MMY6101A,
W-8945D, 203-4895, 510320, 46-4154 W-8945D, 39200506, MMY6102BS
(APPLICATIONS) (M.T.E HYDRAULICS, ANTHONY LIFTGATES)
(WITH THE “OFFSET” SWITCH MOUNTING HOLES)

***12V* (CW) (*DBB*) SLOT SHAFT**
MOTOR WITH *"INSULATED" GROUND* (2 POST)
(FOR THE HESSELMAN PUMP)

"WMS" PART NUMBER, W-5635B

REPLACES, 4615013250, W5635B, AMJ-5635, 12MB12TWA, IM-0173
W5635, 529030, 34016RYSSBY, 12MB2LXWA, 12MB82TWA, AM-5635
SPEC / DE FRAME & "NARROW" ARMATURE SLOT, (.160"/ 4.06mm WIDE)

(APPLICATIONS)
(WALTCO LEVEL LIFT, HESSELMAN PUMPS ETC.)

WITH OVERLOAD PROTECTION

***12V* (CW) (*DBB*) SLOT SHAFT**
MOTOR WITH *"INSULATED" GROUND* (2 POST) W/OLP
(FOR THE HESSELMAN PUMP)

"WMS" PART NUMBER, W-5633B

REPLACES NUMBERS, W5633B, IM-0173
IM0173, W5633, 21241, 822572, ZEEPRO-21241, 21241312-12
SPEC / DE FRAME & "NARROW" ARMATURE SLOT, (.160"/ 4.06mm WIDE)

(APPLICATIONS)
(WALTCO LEVEL LIFT, HESSELMAN PUMPS ETC.)

***24V* (CW) *MOTOR WITH* TANG SHAFT**

"WMS" PART NUMBER, W-5642

REPLACES NUMBERS,
W5642, 11.212.865, AMJ-5239, 11212865, IM0029, AMJ5239
(THE SHAFT TANG IS 8MM THICK, 18mm WIDE & 8.65mm DEEP)
(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700" LONG)
(THE ALIGNMENT RINGS ON THE DE FRAME ARE 32mm AND 42mm)

***24V* (CW) *MOTOR WITH* TANG SHAFT**

"WMS" PART NUMBER, IM-0029

REPLACES NUMBERS,
W-5642, 11.212.865, AMJ-5239, 11212865, IM0029, AMJ5239
(THE SHAFT TANG IS 8MM THICK, 18mm WIDE & 8.65mm DEEP)
(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700" LONG)
(THE ALIGNMENT RINGS ON THE DE FRAME ARE 32mm AND 42mm)

12V (CW) "*DBB" MOTOR WITH* TANG SHAFT

"WMS" PART NUMBER, W-7864

REPLACES, IM0028, C162010000, C162086000
IM-0028, W7864, 11.212.864, AMJ-5238, 11212864, AMJ5238

APPLICATIONS, OIL SISTEM, GEORGI KOSTOV

(THE SHAFT TANG IS 8MM THICK, 18mm WIDE & 8.65mm DEEP)

(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700" LONG)

(THE ALIGNMENT RINGS ON THE DE FRAME ARE 32mm AND 42mm)

12V (CW) *MOTOR WITH* TANG SHAFT

"WMS" PART NUMBER, IM-0028

REPLACES, W-7864, 11.212.864, IM0028, AMJ-5238, 11212864, AMJ5238

APPLICATIONS, OIL SYSTEMS

(THE SHAFT TANG IS 8MM THICK, 18mm WIDE & 8.65mm DEEP)

(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700" LONG)

(THE ALIGNMENT RINGS ON THE DE FRAME ARE 32mm AND 42mm)

12V (CW) *DBB MOTOR WITH* TANG SHAFT AND "OLP"

"WMS" PART NUMBER, W-7864A

REPLACES, 98-529.50-00, 98-5295.50-0000002
98-529500000002, 9852950-0000014, 98-52950000014
AMJ5701, W7864A, IM-0117, AMJ-5701, 11.212.077, 98-52950

APPLICATIONS, OIL SYSTEM, GEORGI KOSTOV

(THE SHAFT TANG IS 8mm THICK, 18mm WIDE & 8.65mm DEEP)

(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700" LONG)

WITH OVERLOAD PROTECTION

12V (CW) TANG SHAFT MOTOR W/SW. & *"OLP"*

"WMS" PART NUMBER, IM-0039

REPLACES, IM0039, W-7865, AMJ5197, 56250A180, 35803200, 11.212.737

(APPLICATIONS) (ANTEO, CATTLE FEEDERS, ETC.)

(THE SHAFT TANG IS 8MM THICK, 18mm WIDE & 8.65mm DEEP)

(THE ALIGNMENT RINGS ON THE DE FRAME ARE 32mm AND 42mm)

12V (CW) TANG SHAFT MOTOR W/SW. & *"OLP"*

"WMS" PART NUMBER, W-7865

REPLACES, IM0039, W7865, AMJ5197, 56250A180, 35803200, 11.212.737

(APPLICATIONS) (ANTEO, CATTLE FEEDERS, ETC.)

(THE SHAFT TANG IS 8MM THICK, 18mm WIDE & 8.65mm DEEP)

(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700" LONG)

(THE ALIGNMENT RINGS ON THE DE FRAME ARE 32mm AND 42mm)

12V(CW) 2 POST SLOT SHA/MOTOR WITH "INS/GRD"

"WMS" PART NUMBER, W-6303

REPLACES NUMBERS, W6303, 46-401, 985690, MAY4303, MAY4303A

(APPLICATIONS) (BAKER MATERIAL HANDLING)

(SLOT IN END OF SHAFT IS 0.155"/ 3.93mm WIDE)

(INSULATED GROUND TERMINAL POST)

.256"/ 6.50mm Shaft slot

12V (CW) *DBB* *"INSULATED GROUND"* SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8875

REPLACES NUMBERS, 46-987, 46-2016, 46-2207,
46-2380, 46-2406, 46-2564, 46-2778, 46-3570,
19-15110101-00, MDY-7040, MDY-7040S, MDY-7047,

(THRU BOLTS ARE AT THE 6 & 12 POSITION)

(FOR A MOTOR WITH CUT DOWN CASE AT DE USE NUMBER W-8975)

(APPLICATIONS) (SMITH INDUSTRIES, PEDRO ROQUET, FENNER STONE)

.256"/ 6.50mm Shaft slot

12V(CW) *"DBB"* SLOT SHAFT MOTOR WITH *"INSULATED GROUND"*, (2) POST.

"WMS" PART NUMBER, W-9008

THIS "GOLD" STYLE MOTOR HAS THE SAME APPLICATIONS AS THE ABOVE MOTOR NUMBER W-8875.

CUT DOWN DE DIAMETER
OF FIELD FRAME IS 4.150
.256"/ 6.50mm Shaft slots

12V (CW) *"INSULATED GROUND"* SLOT SHAFT MOTOR.

"WMS" PART NUMBER, W-8975

REPLACES NUMBERS, 46-987, 46-2016, 46-2207, 46-2380, 46-2406, 46-2564
46-2778, 46-3570, 19-15110101-00, MDY-7040, MDY-7040S, MDY-7047,
W8975, MDY-7047S, MDY-7052, MDY-7055, MDY-7055S.

(THRU BOLTS ARE AT THE 6 & 12 POSITION)

(APPLICATIONS) (SMITH INDUSTRIES, PEDRO ROQUET, FENNER STONE)

12V (CW) *"INSULATED GROUND"* SLOT SHAFT MOTOR.

"WMS" PART NUMBER, W-8975B

REPLACES NUMBERS, W8975B, W-8878I, INS/GRD W-8878

"BUSHING" TYPE SHAFT AT THE DRIVE END SLOT

(APPLICATIONS) (BOOM LIFT ARMS ON TRUCKS, PAVING EQ.)

MOTOR IS 6" LONG WITH THE THRU BOLTS AT THE 3 & 9 POSITION

***12V* (CW) *DBB*, 1.2KW SLOT SHAFT MOTOR WITH *"INSULATED" GROUND* (2) POST.**

"WMS" PART NUMBER, W-8775

(FOUR SERIES COILS FOR HIGH RPM & POWER)

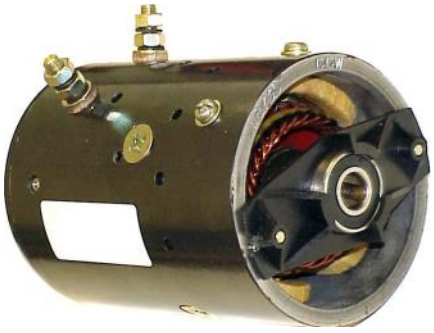
REPLACES, C162051019, 11216416, 543913415

W8775, AMJ-5222, 11.216.416, AMJ5222, 11212633, 11.212.633

(APPLICATIONS) (CLARK, MONARCH HYD., HALDEX BARNES)

(FOR A "CCW" MOTOR USE NUMBER W-8735)

"VERY POPULAR" "INS" CW



1/4 X 20 THRU BOLTS IN THE 3 & 9 LOCATION

***12V* (CW) *DBB*, 1.2KW SLOT SHAFT MOTOR WITH *"INSULATED" GROUND* (2) POST & "OLP"**

"WMS" PART NUMBER, W-8775A

(FOUR SERIES COILS FOR HIGH RPM & POWER)

REPLACES, W8775A, C162051019, 11216416, 543913415, 11.216.416

(APPLICATIONS) (CLARK, MONARCH HYD., HALDEX BARNES)

(FOR A "CCW" MOTOR USE NUMBER W-8735A)

.256"/ 6.50mm Shaft slot

WITH OVERLOAD PROTECTION

***12V* (CW) *DBB*, 1.2KW SLOT SHAFT MOTOR WITH *"INSULATED" GROUND* (2) POST & "OLP"**

"WMS" PART NUMBER, W-8776A

(FOUR SERIES COILS FOR HIGH RPM & POWER)

REPLACES, 995385000004, W8776A, 11216144, 99536500022

AMJ5762, , AMJ-5710, AMJ-5762, 11.216.144, 99-538.50.00-00/4

(APPLICATIONS) (CLARK, MONARCH HYD., HALDEX BARNES)

(FOR A "HD" 1.7KW MOTOR USE NUMBER W-8752A)

MOTOR HAS M6 X 1.0X7 "METRIC" THRU BOLTS IN THE 3 & 9 LOCATION

.256"/ 6.50mm Shaft slot

WITH OVERLOAD PROTECTION

***12V* (CW) *DBB*, 1.2KW SLOT SHAFT MOTOR WITH *"INSULATED" GROUND* (2) POST & "OLP"**

"WMS" PART NUMBER, W-8776C

(FOUR SERIES COILS FOR HIGH RPM & POWER)

REPLACES NUMBERS,

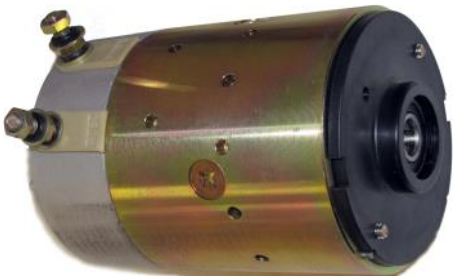
W8776C, 11216416, AMJ5762, 11.216.416

(APPLICATIONS) (CLARK, MONARCH HYD., HALDEX BARNES)

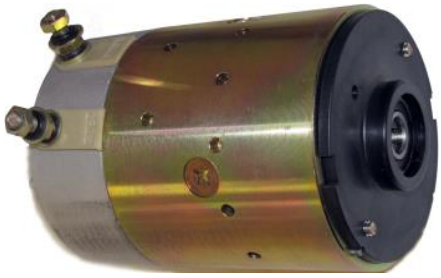
(The thru bolts on this motor extend "1"mm past the end of field frame)

MOTOR HAS M6 X 1.0X7 "METRIC" THRU BOLTS IN THE 3 & 9 LOCATION

.256"/ 6.50mm Shaft slot



12V (CW) *DBB*, 1.2KW SLOT SHAFT
MOTOR WITH *"INSULATED" GROUND* (2) POST.
"WMS" PART NUMBER, W-8274
(SERIES PARALLEL COILS FOR HIGH RPM & POWER)
REPLACES NUMBERS,
IM-0012, W8274
(This motor has the DE bearing and shaft "even")



12V (CW) *DBB*, 1.2KW SLOT SHAFT
MOTOR WITH *"INSULATED" GROUND* (2) POST.
"WMS" PART NUMBER, W-8275
(SERIES PARALLEL COILS FOR HIGH RPM & POWER)
REPLACES NUMBERS,
W8275,
(This motor has the shaft slightly recesses in to the DE bearing)

.256"/ 6.50mm Shaft slot

12V "HD" (CW) *"INSULATED GROUND"* SLOT SHAFT
"WMS" PART NUMBER, W-8944
REPLACES, M1-0411-00, M-3200-DI, 46-2213, MFX-4004,
46-2108, W8944, MFX-4004S, MFX-4005, MFX-4005S, MFX-4005XP,
(APPLICATIONS) (FENNER STONE, FENNER FLUID POWER)
(THIS MOTOR HAS THE 7" LONG FIELD CASE)

12V (CW) "SPECIAL" SLOT SHAFT MOTOR WITH
"INSULATED GROUND" (2 POST)
"WMS" PART NUMBER, W-8980
REPLACES NUMBERS, W8980, 992813, MDY-6204
(APPLICATIONS)
(BAKER MATERIAL HANDLING)
(MOTOR HAS A SHAFT W/A 0.510 DIAMETER SLOT END)
(SLOT IN END OF SHAFT IS 0.155"/ 3.93mm WIDE)

12V(CW) *DBB, 1.2KW "INS. GRD" METRIC*
SLOT SHAFT MOTOR WITH "OLP"

"WMS" PART NUMBER, W-8352A

REPLACES, W8352A, 11.216.608, AMJ5796, P1410332

(APPLICATIONS)

(CLARK, MONARCH HYD., HALDEX, CONCENTRIC)

(MOTOR HAS 6mm METRIC THRU BOLTS)

(For a "HD" 1.7KW motor use number W-8752A)

OVERLOAD PROTECTION

BOTH MOTORS HAVE
M6 X 1.0X 7
"METRIC" THRU BOLTS
IN THE 3 & 9 LOCATION

12V (CW) *DBB*, 1.7KW SLOT SHAFT
MOTOR WITH *"INSULATED" GROUND* AND "OLP"

"WMS" PART NUMBER, W-8752A

(TWO FIELD COILS & TWO SHUNT COILS FOR MORE POWER)

REPLACES, 11.216.608, W-8276A, 11.216.902, 3254510, 3427255, 3443017

(APPLICATIONS)

(CLARK, MONARCH HYD., HALDEX, CONCENTRIC)

(THE W8752A IS A "HD" 1.7KW MOTOR)

(FOR THE STANDARD 1.2KW MOTOR W/OLP USE W-8352A

(BOTH MOTORS HAVE 6mm THRU BOLTS)

.256"/ 6.50mm Shaft slot

OVERLOAD PROTECTION

12V(CW) *DBB "INS. GRD"*
SLOT SHAFT MOTOR WITH "CE & DE" TERMINALS

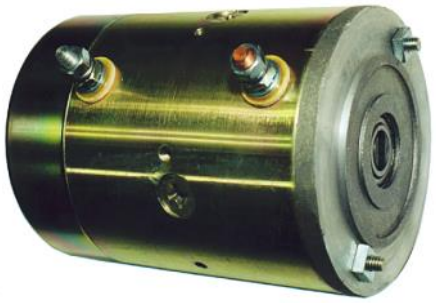
"WMS" PART NUMBER, W-1714

REPLACES NUMBERS, W1714, B-258-CW-2

(APPLICATIONS)

(SOUTHWORTH AND PRESTO LIFTS)

.256"/ 6.50mm Shaft slot



12V (CW) *DBB MOTOR WITH* TANG SHAFT

"WMS" PART NUMBER, IM-0003

REPLACES NUMBERS,

IM0003, 543913416, 200543913416, AMJ-5649, 11.212.085, 599999047

(APPLICATION) BUCHER HYD., HIDROIRMA

(THE SHAFT TANG IS 8mm THICK, 18mm WIDE & 8.65mm DEEP)

(THE ALIGNMENT RING ON THE DE FRAME IS 42mm IN DIAMETER)

(THIS MOTOR HAS A SPECIAL DIMENSIONED DE FRAME)

12V* (CW) *DBB
***MOTOR WITH* TANG SHAFT AND SOLENOID**
"WMS" PART NUMBER, W-36611
REPLACES NUMBER, W6611, 6611, W-6611, 36611
APPLICATIONS, MISC. LIFTS
(THE SHAFT TANG IS 8mm THICK, 18mm WIDE & 8.65mm DEEP)
(THE RAISED RING DIAMETER ON DRIVE END IS 2.80")
(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700" LONG)

***24V* (CW) TANG SHAFT MOTOR *DBB* (INS / GRD.)**
"WMS" PART NUMBER, W-36612
REPLACES NUMBER, W36612, 36612 <> MISC. LIFTS
(THE SHAFT TANG IS 8mm THICK, 18mm WIDE & 8.65mm DEEP)
(THE RAISED RING DIAMETER ON DRIVE END IS 2.80")
(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700" LONG)
(FOR A 12V MOTOR USE NUMBER W-36611)

***24V* (CW) TANG SHAFT MOTOR *DBB* (INS / GRD.)**
"WMS" PART NUMBER, W-36612B
REPLACES NUMBER, W36612, 36612, W36612B
(THE SHAFT TANG IS 8mm THICK, 18mm WIDE & 8.65mm DEEP)
(THE RAISED RING DIAMETER ON DRIVE END IS 2.80")
(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700" LONG)

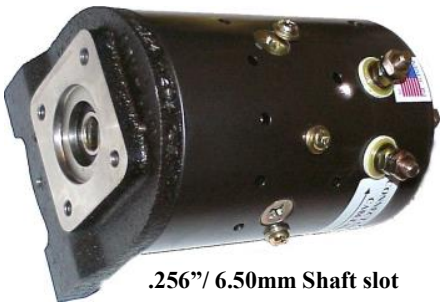
***12V* (CW) TANG SHAFT MOTOR (INS / GROUND)**
"WMS" PART NUMBER, IM-0186
REPLACES, IM0186, W-5643, AMJ-5143, 11212596
(MOTOR HAS A INTERNAL COOLING FAN)
(THE RAISED RING DIAMETER ON DRIVE END IS 42MM)
(THE SHAFT TANG IS 8mm THICK, 18mm WIDE & 8.65mm DEEP)

***12V* (CW) TANG SHAFT MOTOR (INS / GROUND)**
"WMS" PART NUMBER, IM-0188
REPLACES NUMBERS, IM0188, 1547-220502, 2200502
AMJ-5681, W-7852, IS47220502, AMJ5681, 11212132, 11212356
(THE RAISED RING DIAMETER ON DRIVE END IS 52mm)
(THE SHAFT TANG IS 8mm THICK, 18mm WIDE & 8.65mm DEEP)

12V (CW) *DBB*, SLOT SHAFT MOTOR WITH *"INSULATED GROUND"* (2) POST

"WMS" PART NUMBER, W-6110

THIS W6110 IS A "CW" VERSION OF THE W-6109



.256"/ 6.50mm Shaft slot

12V (CW) *DBB MOTOR WITH SLOT* SHAFT ARMATURE

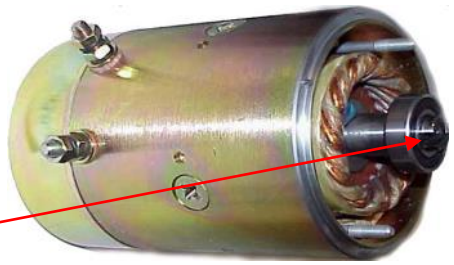
"WMS" PART NUMBER, W-14310-12

REPLACES NUMBER, W14310-12, 14310-8111071
14310-81110-71, 45621, 1431012, 143108111071

SPECIAL REPLACEMENT FOR A NIPPONDENSO MOTOR

(256"/6.50mm shaft slot is .227"/ 5.765mm out past the ball bearing)

(FOR A 24V MOTOR USE NUMBER W-14310-24)



M6 X 1 X 7" THRU BOLTS

12V "HD" (CW) *"INS/GRD"* 4HP SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-7683D

REPLACES, M1-0411-00, M-3200-DI, 46-2213, MFX-4004, W-8944
W7683D, W8944, MFX-4004S, MFX-4005, MFX-4005S, MFX-4005XP

(APPLICATIONS)
(FENNER, SPX, FENNER FLUID POWER)
(THIS MOTOR HAS THE 7" LONG FIELD CASE)

.256"/ 6.50mm Shaft slot

12V "HD" (CW) 4HP SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-9734D

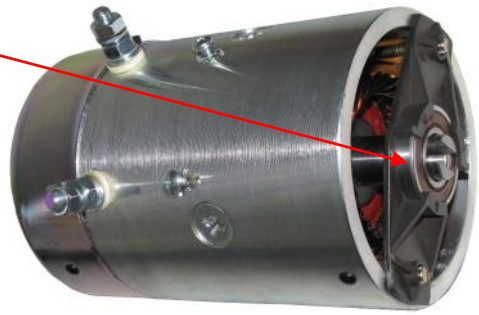
REPLACES, W9734D, W-8934D, MMY-4002, MMY-4002S, W-8934D-HD
(APPLICATIONS) (FENNER FLUID POWER, SPX)
(VENCO, J.S. BARNES, LEYMAN, MAXON, WALTCO)
(ANTHONY, THIEMAN, MTE HYDRAULICS)
(THIS MOTOR HAS THE 7" LONG FIELD CASE)

12V (CW) SLOT SHAFT MOTOR W/A "6203 BALL BEARING"

"WMS" PART NUMBER, W-8210

REPLACES NUMBERS, W8210-12V-1.5KW, W8210

(THIS MOTOR USE'S A 6203 BEARING AT THE SLOT END)
(MOTOR HAS (2) SPECIAL SWITCH HOLES)
(Slot shaft is .158"/ 4.00mm out from the 6203 bearing race)
(Shaft slot area is .669"/ 16.99mm diameter & slot width is .315"/ 8.00mm)
(For a one post non-insulated ground motor use W-8206)



HAS 6-203 BALL BEARING AT DE
.315"/ .800mm Shaft slot

"VERY POPULAR" "INS" CCW

.256"/ 6.50mm Shaft slot

12V(CCW) *"HIGH RPM" DBB (2 FIELD)* SLOT MOTOR WITH *"INSULATED GROUND"* (2 POSTS)

"WMS" PART NUMBER, W-6001

REPLACES NUMBERS, MUE-6102S
MUE6102, W6001, MHA-6001S, 46-783, 46-3633

FOR "DBB" (4) FIELD MOTOR USE NUMBER W-9035

(APPLICATIONS) (RAYMOND CORP., J.S. BARNES)

NOTE* (IF NECESSARY FOR CORRECT ARMATURE SPACING REMOVE THE SPACER WASHER FROM BEHIND THE DE BALL BEARING)

*** MOST POPULAR CCW ***

.256"/ 6.50mm Shaft slot

12V (CCW) DBB "INSULATED GROUND" (HD) (4) FIELD COIL SLOT SHAFT MOTOR,

"WMS" PART NUMBER, W-8935

REPLACES, 2200030, 2200230, 2200355, 2200525, 2200176, 6037
MDY-6103, MDY-6109, W8935BC, MDY-7065, MUE6121, 39200143
(APPLICATIONS) (RAYMOND CORP., HYSTER CORP.,)
(HALDEX, MONARCH HYDRAULICS, MTE HYDRAULICS)

NOTE* (IF NECESSARY FOR CORRECT ARMATURE SPACING REMOVE THE SPACER WASHER FROM BEHIND THE DE BALL BEARING)

.256"/ 6.50mm Shaft slot

12V (CCW) *DBB,* SLOT SHAFT MOTOR WITH *"INSULATED GROUND"* (2) POST.

"WMS" PART NUMBER, W-9007

REPLACES, W9007, 11212108, AMJ5667, 0136350011, 0136350013, 2200355

(THRU BOLTS ARE AT THE 6 & 12 POSITION)

THIS IS A "GOLD" (DBB) (SPX STYLE) MOTOR FOR THE SAME APPLICATIONS AS THE ABOVE MOTOR # W-8935.

12V (CCW) *DBB,* (2) POST SLOT SHA/MOTOR W/*"OLP"*

"WMS" PART NUMBER, W-9007A

REPLACES NUMBERS,
W9007A, 1175473, 1175475, 12MD12TWA, CM190-Q, CM190Q

(THRU BOLTS ARE AT THE 6 & 12 POSITION)

(WITH OVERLOAD PROTECTION USING A SINGLE WIRE)

PICTURE NOT AVAILABLE AT THIS TIME

12V (CCW) *DBB,* (2) POST SLOT SHA/MOTOR W/*"OLP"*

"WMS" PART NUMBER, W-9006A

REPLACES NUMBERS,
W9006A, 12MD12TWA, MD12TWA, W-9007A W/CUT DOWN FRAME

(DIAMETER OF DE FIELD FRAME IS CUT DOWN AS SHOWN)

(WITH OVERLOAD PROTECTION USING A SINGLE WIRE)

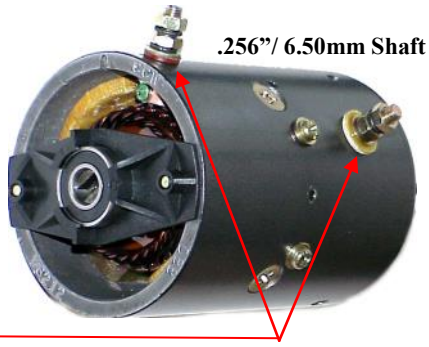
12V (CCW) *"HIGH RPM" *DBB* (2 FIELD)*
SLOT SHA/MOTOR *"INSULATED GROUND"* (2 POSTS)

"WMS" PART NUMBER, W-6212

REPLACES NUMBERS, MUE-6308S, MUE6208S, PR2-0067N
W6212, MUE6208, MUE-6208, 540-019, 46-4212, MUE-6208S
S203*4621, 66546, S2014621, 39200475, MUE-6308, MUE6308S

(APPLICATIONS) (RAYMOND CORP., J.S. BARNES)
HYSTER CORP., MONARCH HYD., MTE, ETC.

(This motor is the early design with CE & DE terminal posts)



.256"/ 6.50mm Shaft slot

12V (CCW) *"HIGH RPM" *DBB* LATE STYLE (2 FIELD)* SLOT SHAFT MOTOR
WITH *"INSULATED GROUND"* (2 POSTS)

"WMS" PART NUMBER, W-6212C

REPLACES NUMBERS, W6212C, MUE-6308S, MUE6208S,
W6212, MUE6208, MUE-6208, 540-019, 46-4212, MUE-6208S
S203*4621, 66546, S2014621, 39200475, MUE-6308, MUE6308S

(APPLICATIONS) (RAYMOND CORP., J.S. BARNES)
HYSTER CORP., MONARCH HYD., MTE, ETC.

.256"/ 6.50mm Shaft slot

12V (CCW) *"HIGH RPM" *DBB*
(2 FIELD)* SLOT SHAFT MOTOR
WITH *"INSULATED GROUND"* (2 POSTS)

"AMETEK" PART NUMBER, MUE6308

REPLACES NUMBERS, MUE-6308S, MUE6208S, PR2-0067N
W6212, MUE6208, MUE-6208, 540-019, 46-4212, MUE-6208S
S203*4621, 66546, S2014621, 39200475, MUE-6308, MUE6308S

(APPLICATIONS) (RAYMOND CORP., J.S. BARNES)
HYSTER CORP., MONARCH HYD., MTE, ETC.

.256"/ 6.50mm Shaft slot

12V (CCW) *"HIGH RPM" *DBB* (2) POST
(2 FIELD)* SLOT SHAFT MOTOR *WITH A "CASE GRD"*

"AMETEK" PART NUMBER, MUE6308A

REPLACES NUMBERS, MUE6308AS
(APPLICATIONS)(RAYMOND CORP., HALDEX,
HYSTER, MONARCH, MTE, ETC.)

THE LEFT TERMINAL POST IS GROUNDED TO THE FIELD FRAME

.256"/ 6.50mm Shaft slot

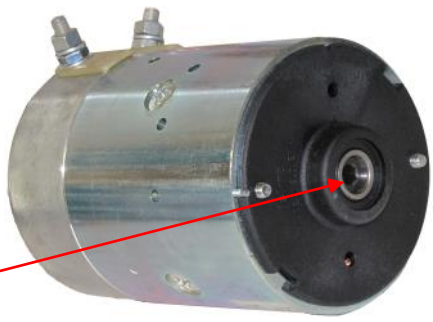
**12V* (CCW) DBB, INSULATED "ALLEN SHAFT" MOTOR*

"WMS" PART NUMBER, W-8304

(REPLACES NUMBER, W8304, 51112, 2201117

(APPLICATIONS) (HALDEX BARNES)

(This motor has a 5/16" / 0.3125" / 8mm "Female Allen shaft" hole)



"VERY POPULAR" "INS" CCW
.256"/ 6.50mm Shaft slot

12V (CCW) *DBB*, SLOT SHAFT MOTOR WITH *"INSULATED" GROUND* (2) POST.

"WMS" PART NUMBER, W-8735

(THRU BOLTS ARE AT THE 3 & 9 POSITION)
(FOUR SERIES COILS FOR HIGH RPM & POWER)
REPLACES, W8735, 700-4248, AMJ-4680, 00704, 11.212.721, 2200975
(APPLICATIONS)
(CLARK, MONARCH HYDRAULICS, HALDEX BARNES)

WITH OVERLOAD PROTECTION

.256"/ 6.50mm Shaft slot

12V (CCW) *DBB*, SLOT SHAFT MOTOR WITH *"INSULATED" GROUND & OLP* (2) POST.

"WMS" PART NUMBER, W-8735A

(THRU BOLTS ARE AT THE 3 & 9 POSITION)
(FOUR SERIES COILS FOR HIGH RPM & POWER)
REPLACES, W8735A, AMJ-4680, 00704, 11.212.721, 2200975
(APPLICATIONS)
(CLARK, MONARCH HYDRAULICS, HALDEX BARNES)

WITH OVERLOAD PROTECTION

METRIC THRU BOLTS
.256"/ 6.50mm Shaft slot

12V (CCW) *DBB*, SLOT SHAFT MOTOR *"WITH M6 X 1 METRIC THRU BOLTS"*

"WMS" PART NUMBER, W-8736A

(THRU BOLTS ARE AT THE 3 & 9 POSITION)
(FOUR SERIES COILS FOR HIGH RPM & POWER)
REPLACES NUMBERS, W8736A
THIS IS A "CCW" VERSION OF A W-8776A
(APPLICATIONS)
(CLARK, MONARCH HYDRAULICS, HALDEX BARNES)

.256"/ 6.50mm Shaft slot

12V "HD" (CCW) DBB, INSULATED SLOT SHAFT MOTOR

"WMS" PART NUMBER, IM-0159

REPLACES NUMBER, IM0159, AMJ5667
W-8735, W-8235, AMJ5667, 11.212.108, 24006000, AMJ-5667
(APPLICATIONS) (HIDROIRMA, HALDEX BARNES)
(This motor has (8) brushes & springs)
(THIS IS A HD/ISKRA VERSION OF THE W-8735 & W-8235)

12V(CCW) *DBB "INS. GRD"*
SLOT SHAFT MOTOR WITH "CE & DE" TERMINALS

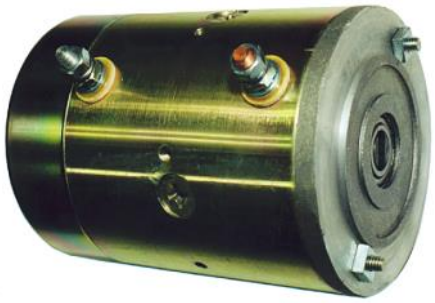
"WMS" PART NUMBER, W-1707

REPLACES NUMBERS, W1707, B-258-CCW-2

(APPLICATIONS)

(SOUTHWORTH AND PRESTO LIFTS)

.256"/ 6.50mm Shaft slot



12V (CCW) *"INSULATED GROUND"*
SLOT SHAFT MOTOR WITH "CE & DE" TERMINALS

"WMS" PART NUMBER, W-8920

REPLACES, W8920, 46-949, 922597, MHN-4002, MHN-4002A
MHN-4002S, MHN4002, 6127, 8056, 8079, 992312, 8117M, 9130450087

(APPLICATIONS) (CLARK EQUIPMENT, MONARCH HYDRAULICS)

(IF USING A "MONARCH" MOTOR BRACKET USE THIS MOTOR)

.256"/ 6.50mm Shaft slot

12V (CCW) *"INSULATED GROUND" DBB*
SLOT SHAFT MOTOR, (2) POST W/"OLP"

"WMS" PART NUMBER, W-8920A

REPLACES, W8920A, 46-949, MHN-4002, MHN-4002A,
MHN-4002S, MHN4002, 6127, 8079, 992312, 8117M, 9130450087

(APPLICATIONS)
(CLARK EQUIPMENT, MONARCH HYDRAULICS)

(IF USING A "MONARCH" MOTOR BRACKET USE W-8920)

WITH OVERLOAD PROTECTION

.256"/ 6.50mm Shaft slot

12V (CCW) *"INSULATED GROUND" DBB*
SLOT SHAFT MOTOR, (2) POST

"WMS" PART NUMBER, W-8920D

REPLACES NUMBERS,
W8920D, 46-949, MHN-4002, MHN-4002A,
MHN-4002S, MHN4002, 6127, 8079, 992312, 8117M, 9130450087

(APPLICATIONS) (CLARK EQUIP. & MONARCH HYDRAULICS)

.256"/ 6.50mm Shaft slot

12V (CCW) *"INSULATED GROUND"*
SLOT SHAFT MOTOR, (2) POST

"WMS" PART NUMBER, W-8920E

REPLACES NUMBERS, W8920E, 08186, 0-8186

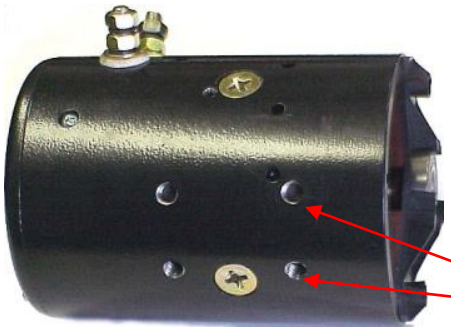
(THE DE BEARING AND SHAFT ARE "EVEN")

(APPLICATIONS) (CLARK EQUIP. & MONARCH HYDRAULICS)

12V (CCW) (HD) *"DBB"*
SLOT SHAFT MOTOR, FOR *"HPI FRENCH PUMP"*
WITH *"INSULATED" GROUND* (2) POST MOTOR
"WMS" PART NUMBER, W-8532
REPLACES, 47042004, 95436J, 109523J, 109532J, 109543J,
W8532, 109589J, 195436J, GCP-33 LIFT, GCP-44 LIFT, M-4640
H.P.I. FRENCH PUMP MOTOR.
(APPLICATIONS) (DUNKIN DONUTS, GCP, HPI , ETC.)
(ARMATURE SLOT IS .185"/ 4.69mm WIDE)
(THRU BOLTS ARE M6 X 1.0 X 8.5" LONG)

24V (CCW) (HD) *"DBB"* SLOT SHAFT MOTOR
FOR *"HPI FRENCH PUMP"* / *"INS." GRD* (2) POST MOTOR
"WMS" PART NUMBER, W-8524
REPLACES NUMBERS, 109024, W8524, 47042003E
H.P.I. FRENCH PUMP MOTOR.
(APPLICATIONS) (QUARRY EQUIP., ROCK CRUSHER ETC.)
(ARMATURE SLOT IS .185"/ 4.69mm WIDE)
(THRU BOLTS ARE M6 X 1.0 X 8.5" LONG)

12V (CCW) (HD) *"DBB"*
SLOT SHAFT MOTOR WITH *"INSULATED" GROUND*
"SPECIAL" DE FRAME WITH (4)
M6 X 1.0 THREADED HOLES FOR MOUNTING.
(REPLACES NUMBERS, 470446094, W8547, 7044609C)
"WMS" PART NUMBER, W-8547
(ARMATURE SLOT IS .185"/ 4.69mm WIDE)



.256"/ 6.50mm Shaft slot

12V (CCW) *"INSULATED GROUND"* (2) POST
(HD) (4) FIELD COIL SLOT SHAFT MOTOR
"WMS" PART NUMBER, W-8978
(THRU BOLTS ARE AT THE 6 & 12 POSITION)
REPLACES NUMBERS, 6120, 46-2042, 46-2084, 46-2112, 46-2586
W8978, 992474, GC-3921, 220-0028, MDY6120, MDY6202, MDY7067,
(APPLICATIONS) (BARETT LIFTS, J.S. BARNES CORP.)
(MOTOR HAS (4) 3/8 X 16 BASE MOUNTING HOLES)
FOR A MOTOR WITHOUT THE (4) LARGE THREADED HOLES
IN THE BARREL USE "WMS" PART NUMBER W-8935.
(For a motor complete with the mounting plate)
(bolted to the field frame use Western Motor number W-8978WB)

***12V* (CCW) <> *(4 SERIES FIELD COILS)* SLOT MOTOR WITH *"INSULATED GROUND"* (2 POSTS)**

"WMS" PART NUMBER, W-9035

HD FOUR COIL REPLACEMENT FOR NUMBERS
MHA6001, MUE6102, MUE-6102, MUE-6102S, W-6001
W9035, 570410100, MHA-6001S, 46-783, 46-3633, 2200525, 2200870

(APPLICATIONS) (RAYMOND CORP., J.S. BARNES)
HYSTER CORP., MONARCH HYD., MTE, ETC.

****NOTE* (IF NECESSARY FOR CORRECT ARMATURE SPACING REMOVE THE SPACER WASHER FROM BEHIND THE DE BALL BEARING)***

*** POPULAR CCW ***
*** 12V "INS" PUMP MOTOR ***

.256"/ 6.50mm Shaft slot

12V* "HD" (CCW) *"INSULATED GROUND"

SLOT SHAFT MOTOR, (2) POST

"WMS" PART NUMBER, W-8947

REPLACES NUMBERS, 8095, 46-2367
MFX4006, W8947, M3100-HD-DI, MFX-4006, MFX-4006S
(APPLICATIONS) (MONARCH HYDRAULIC EQUIPMENT)
(For a motor with the terminal posts at CE & DE use # W-8947B)

.256"/ 6.50mm Shaft slot

12V* "HD" (CCW) *"INSULATED GROUND"

SLOT SHAFT MOTOR WITH (2) 5/16X24 TERMINALS

"WMS" PART NUMBER, W-8947B

REPLACES NUMBERS, 8095, 46-2367, MMY6303
MFX4006, W8947B, M3100-HD-DI, MFX-4006, MFX-4006S
(APPLICATIONS) (MONARCH HYDRAULIC EQUIPMENT)
(For a motor with the terminal posts at the CE use # W-8947)

.256"/ 6.50mm Shaft slot

12V* "HD" (CCW) *"INSULATED GROUND" W/DE FRAME

SLOT SHAFT MOTOR, (2) POST

"WMS" PART NUMBER, W-8947WD

REPLACES NUMBERS, W8947WD, 8095, 46-2367
MFX4006, W8947, M3100-HD-DI, MFX-4006, MFX-4006S
(APPLICATIONS) (MONARCH HYDRAULIC EQUIPMENT)

.256"/ 6.50mm Shaft slot

12V* "HD" (CCW/ DBB) *"INS/GRD" MOTOR W/SWITCH

SLOT SHAFT MOTOR (2) POST WITH DRIVE END FRAME

"WMS" PART NUMBER, W-8747WD

REPLACES NUMBERS, W8747WD, 8095, 46-2367
MFX4006, W8947B, M3100-HD-DI, MFX-4006, MFX-4006S
(APPLICATIONS) (MONARCH HYDRAULIC EQUIPMENT)

(This is the W-8947WD complete w/switch and connector strap)

.256"/ 6.50mm Shaft slot

***12V* (CCW) *DBB*, SLOT SHAFT MOTOR WITH *"INSULATED" GROUND* (2) TERMINALS & DE FRAME**

"WMS" PART NUMBER, W-8235C

(FOUR SERIES PARALLEL COILS FOR HIGH RPM & POWER)

REPLACES NUMBERS, IM-0159

W8235C, 700-4248, AMJ-4680, 00704, 11.212.721, 2200975 W/DE Frame

(APPLICATIONS)

(CLARK, MONARCH HYDRAULICS, HALDEX BARNES)

.256"/ 6.50mm Shaft slot

***12V* (CCW) *"INSULATED GROUND" *DBB** (2) POST (HD) (4) FIELD COIL SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W-8978WB

(MOTOR HAS MOUNTING BASE INSTALLED)

REPLACES, W8978WB, MDY6202, MDY7067, MDY6202

6120, 46-2042, 46-2084, 46-2112, 46-2586, MDY6120, MDY6120S

992474, GC-392 1, 220-0028, MDY-6120, MDY-6202, MDY-7067

(APPLICATIONS) (BARETT LIFTS, J.S. BARNES CORP.)

FOR A MOTOR "WITHOUT" THE (4) LARGE THREADED HOLES IN THE BARREL USE "WMS" PART NUMBER W-8935

.256"/ 6.50mm Shaft slot

***12V* (CCW) *DOUBLE BALL BEARING,* SLOT SHAFT MOTOR WITH *"INSULATED GROUND"* (2) POST.**

"WMS" PART NUMBER, W-6109

THIS IS A "CCW" VERSION OF THE W-6110

.256"/ 6.50mm Shaft slot

***12V* (CCW) "*DBB"* HD / 4 FIELD SLOT SHAFT MOTOR WITH *"INSULATED" GROUND* (2) POST.**

"WMS" PART NUMBER, W-8526

(FOUR SERIES PARALLEL COILS FOR HIGH RPM & POWER)

REPLACES, S203T*5051, S203T5051

(APPLICATIONS) (HINIKER SNOW PLOWS, MTE PUMPS)

***12V* "CCW" (TANG SHAFT MOTOR (INS / GRD.)**

"WMS" PART NUMBER, W-5258

REPLACES NUMBER, 109511

(APPLICATIONS) (CROWN & HPI)

(Tang shaft is 10mm in diameter & 4mm flat to flat)

(Raised alignment ring is 63.5mm (2.5") in diameter)

(FOR A 24V MOTOR USE NUMBER W-5158)

***12V* (CCW) *DBB*, SLOT SHAFT MOTOR**
WITH *"INSULATED" GROUND* (2) TERMINALS
"WMS" PART NUMBER, W-8235
(FOUR SERIES PARALLEL COILS FOR HIGH RPM & POWER)
REPLACES NUMBERS,
IM0159, 700-4248, AMJ-4680, 00704, 11.212.721, 2200975
(APPLICATIONS)
(CLARK, MONARCH HYDRAULICS, HALDEX BARNES)
(The black plastic plate on the drive end is for shipping only)

"POPULAR" "INS" CCW

.256"/ 6.50mm Shaft slot

***12V* (CCW) *DBB*, SLOT SHAFT MOTOR**
WITH *"INSULATED" GROUND* AND "OLP"
"WMS" PART NUMBER, W-8235A
(FOUR SERIES PARALLEL COILS FOR HIGH RPM & POWER)
REPLACES NUMBERS,
W-8235 WITH OLP, W8235A
(APPLICATIONS)
(CLARK, MONARCH HYDRAULICS, HALDEX BARNES)

.256"/ 6.50mm Shaft slot

***12V* (CCW) SLOT SHAFT MOTOR**
WITH *"INSULATED GROUND" 1.6 KW (1800 RPM)*
"WMS" PART NUMBER, W-8240
REPLACES NUMBERS,
IM0320, 11.218.033, AMJ4839
W8240, 18442, 11218033, 11.216.791
(APPLICATIONS)
(MONARCH, BUCHER HYDRAULICS, ARCTIC SNOW PLOWS)

.256"/ 6.50mm Shaft slot

***12V* "CCW" 3.7" Dia./TANG SHAFT MOTOR (INS / GRD.)**
"WMS" PART NUMBER, W-5812
REPLACES NUMBERS, 114226, 114226C
(APPLICATIONS) (YALE HYDROPERFECT)
(NEW HD REPLACEMENT FOR THE FRENCH MOTOR)
(Raised alignment ring diameter is 3.270"/ 83.05mm)
(Special DE frame <> hole to hole distance is 3.5"/88.90mm)
(Tang shaft diameter is .355"/ 9.mm & .150"/ 3.81mm flat to flat)
(FOR A 24V VERSION USE MOTOR NUMBER W-5824)

FRENCH STYLE

.256”/ 6.50mm Shaft slot

24V (CCW) SLOT SHAFT MOTOR W/A .625 DIAMETER *“BUSHING”* TYPE SHAFT AT THE DRIVE END SLOT WITH THE THRU BOLTS AT THE 5 & 11 POSITION

“WMS” PART NUMBER, W-8870

REPLACES NUMBERS,

W8870, 46-0410, 46-0415, GC-3905-2, MEX-6101,

(APPLICATIONS)

(WEBSTER ELECTRIC, SPENCER HYD., WISCONSIN HYD.)

.256”/ 6.50mm Shaft slot

24V (CCW) SINGLE POST SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-8851

(THRU BOLTS ARE AT THE 3 & 9 POSITION)

REPLACES NUMBERS, W8851, 46-2437, 46-2530, 46-996, 6128, MHP-4003 MHP-4003A, 8086, 907263, MHP-4007, MHP-4007S, MHP-4008, MHP-4008S

(APPLICATIONS) (MONARCH EQUIP., MONARCH ROAD MACHINERY)

(THIS IS A “HD” VERSION OF W-8951 LISTED BELOW)

*(*NOTE*)(IF THE OLD MOTOR HAS A GROUND TERMINAL POST TO THE LEFT OF THE STANDARD POST USE NUMBER W-9051)*

**NOTE* (IF NECESSARY FOR CORRECT ARMATURE SPACING REMOVE THE SPACER WASHER FROM BEHIND THE DE BALL BEARING)*

MOST POPULAR CCW 24V ONE POST MOTOR

.256”/ 6.50mm Shaft slot

24V (CCW) SINGLE POST SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-8951

(THRU BOLTS ARE AT THE 3 & 9 POSITION)

REPLACES, 46-996, W8951, 6128, MHP-4003, MHP-4003A, 8086, 907263

(APPLICATIONS) (MONARCH EQUIP., MONARCH ROAD MACHINERY)

*(*NOTE*)(IF THE OLD MOTOR HAS A GROUND TERMINAL POST TO THE LEFT OF THE STANDARD POST USE NUMBER W-9051)*

**NOTE* (IF NECESSARY FOR CORRECT ARMATURE SPACING REMOVE THE SPACER WASHER FROM BEHIND THE DE BALL BEARING)*

.256”/ 6.50mm Shaft slot

24V (CCW) TWO POST SLOT SHAFT MOTOR WITH “CASE GROUND TERMINAL”

“WMS” PART NUMBER, W-9051

(THRU BOLTS ARE AT THE 3 & 9 POSITION)

REPLACES, W9051, 46-2437, 46-2530, MHP-4007, MHP-4007S, MHP-4008

(APPLICATIONS) (MONARCH EQUIP., MONARCH ROAD MACHINERY)

(THE POST TO THE RIGHT IS GROUNDED TO THE CASE)

**NOTE* (IF NECESSARY FOR CORRECT ARMATURE SPACING REMOVE THE SPACER WASHER FROM BEHIND THE DE BALL BEARING)*

***24V* (CCW) (4) FIELD SLOT SHAFT MOTOR**

WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

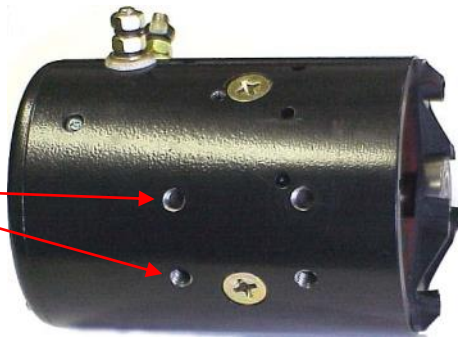
"WMS" PART NUMBER, W-8919

(HAS (4) SPECIAL 3/8 X 16 MOUNTING HOLES IN BARREL)

REPLACES, W8919, 33-11057, 220-0043, 46-784, 5061198-00, MFD-6003

(APPLICATIONS) (BLUE GIANT, J.S. BARNES CORP.)

(FOR A MOTOR W/O THE LARGE THREADED HOLES USE # W-8922)



.256"/ 6.50mm Shaft slot

***24V* (CCW) (4) FIELD SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W-8922

REPLACES NUMBERS, 220-0044, 220-0846, 46-2572

MFD6003, W8922, 9130450055, MFD-6003, MFD-7010,

(APPLICATIONS) (BLUE GIANT, J.S. BARNES CORP.)

.256"/ 6.50mm Shaft slot

***24V* (CCW) DBB (4) FIELD COIL SLOT SHAFT MOTOR**

WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

"WMS" PART NUMBER, W-8922D

REPLACES NUMBERS, 220-0044, 220-0846, 46-2572

W8922D, MFD7010, 9130450055, MFD-6003, MFD-7010

(APPLICATIONS) (BLUE GIANT, J.S. BARNES CORP.)

.256"/ 6.50mm Shaft slot

***24V* (CCW) (4) FIELD COIL SLOT SHAFT MOTOR**

WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

"WMS" PART NUMBER, W-8214

REPLACES, S203T*5030-24V, W8214, 281740-01-24, S203T5030-24

(APPLICATIONS) (MAXON, MTE HYDRAULICS)

(SWITCH HOLES ARE TO THE RIGHT OF THE TERMINAL POST)

(SHAFT IS 0.750"/ 19.05mm OUT FROM THE BEARING RACE)

(THIS IS A 24V VERSION OF THE W-8213)

.256"/ 6.50mm Shaft slot

***24V* "CCW" (TANG SHAFT MOTOR (INS / GRD.)**

"WMS" PART NUMBER, W-5158

REPLACES NUMBERS, W5158, 0805158, 109512V, CR0805158
183-430010, 183-430010V, CR-0805158, 5158, B05158,

(APPLICATIONS) (CROWN & HPI)

(Tang shaft is 10mm in diameter & 4mm flat to flat)

(Raised alignment ring is 63.5mm (2.5") in diameter)

(FOR A 12V MOTOR USE NUMBER W-5258)

.256”/ 6.50mm Shaft slots

***24V* (CW) 2 FLD & 2 SHUNT COIL SLOT SHAFT MOTOR**

WITH “BUSHING” SHAFT AT THE DRIVE END SLOT

(WITH THE THRU BOLTS AT THE 3 & 9 POSITION)

“WMS” PART NUMBER, W-8871

REPLACES, W8871, W-8878-24V, WAPSA/BRAZILIAN BOSCH

(APPLICATIONS) (BOOM ARMS ON TRUCKS)

(LATENT PAVING BOX EQUIPMENT, ETC.)

.256”/ 6.50mm Shaft slot

***24V* (CW) SLOT SHAFT MOTOR WITH 4 SERIES COILS**

WITH “BUSHING” SHAFT AT THE DRIVE END SLOT

(WITH THE THRU BOLTS AT THE 3 & 9 POSITION)

“WMS” PART NUMBER, W-8872

REPLACES, WAPSA, W8872, 9130450044

(APPLICATIONS) (BOOM LIFT ARMS ON TRUCKS)

(LATENT PAVING BOX EQUIPMENT, ETC.)

***24V* (CW) 2 FLD & 2 SHUNT COIL SLOT SHAFT MOTOR**

WITH “BUSHING” TYPE SHAFT AT THE DRIVE END SLOT

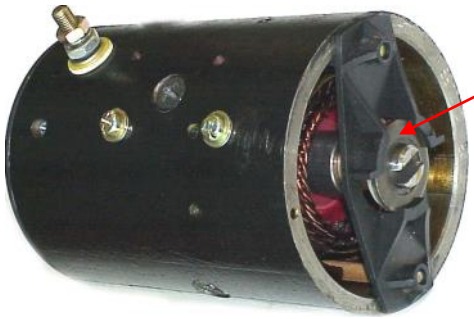
WITH THE THRU BOLTS AT THE 5 & 11 POSITION

“WMS” PART NUMBER, W-8971

REPLACES NUMBERS, W8971, 151-34950-1, 46-439, MEX-7001,

(APPLICATIONS)

(WEBSTER ELECTRIC, SPENCER HYD., WISCONSIN HYD.)



***24V* (CW) SLOT SHAFT MOTOR WITH 4 SERIES COILS**

WITH “BUSHING” TYPE SHAFT AT THE DRIVE END SLOT

WITH THE THRU BOLTS AT THE 5 & 11 POSITION

“WMS” PART NUMBER, W-8972

REPLACES NUMBERS, MHJ7009, 9130450044, 80065

W8972, 46-2436, MHJ7006, 46-2661, 46-3608, MHJ-7006, MHJ-7009

(APPLICATIONS) (W.S. DARLEY PRIMER PUMP)

(SKIDMORE EQUIP., DANFOSS ETC.)

***24V* (CW) (4) FIELD COIL SLOT SHAFT MOTOR**
WITH THE THRU BOLTS AT THE 3 & 9 POSITION.

"WMS" PART NUMBER, W-8868

REPLACES, W8868, W-8973-24V, CW/MHP, 488434
(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)
(FOR DOUBLE BALL BEARING USE NUMBER W-8868D)

.256"/ 6.50mm Shaft slot

***24V* (CW) (4) FIELD SLOT SHAFT MOTOR**
WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

"WMS" PART NUMBER, W-8918

REPLACES NUMBERS, 46-2017, 46-2212, MFD-7001,
W8918, W-8918D, W8918D, W8918, MFD-7001S, MFD-7006
(APPLICATIONS) (FENNER FLUID POWER)
(SPX, FENNER STONE, PARKER HANNIFIN)

.256"/ 6.50mm Shaft slot

***24V* (CW) (4) FIELD COIL SLOT SHAFT MOTOR**
WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

"WMS" PART NUMBER, W-8924

REPLACES NUMBERS,
W8924, 46-2407, M1-2299-00, MHJ7003, MHJ-7005

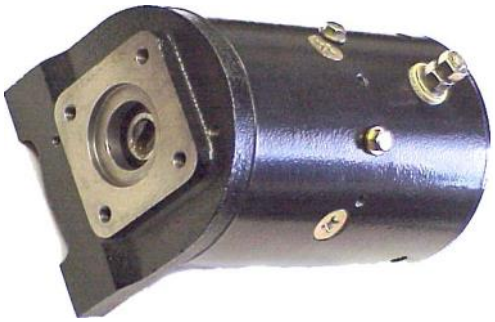
(APPLICATIONS) (STONE HYDRAULICS, FENNER STONE)
(FENNER FLUID POWER, SPX)

.256"/ 6.50mm Shaft slot

***24V* (CW) *DBB* SLOT SHAFT**
MOTOR FOR THE *" HESSELMAN PUMP "*

"WMS" PART NUMBER, W-8535

REPLACES, 24MB11TWA, 4615013250-24, M-4400-24
(SPECIAL DE FRAME & "NARROW" ARMATURE SLOT)
(APPLICATION) (HESSELMAN PUMPS)
(FOR A 12V VERSION USE NUMBER W-8534)
(ARMATURE SLOT SIZE IS .160"/ 4.06mm WIDE)



***24V* (CW) (4) FIELD SLOT SHAFT MOTOR**

WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

"WMS" PART NUMBER, W-6118

(COMPLETE WITH DRIVE END FRAME AS SHOWN)

(THIS IS A "24 VOLT" "CW" MOTOR)

(APPLICATIONS)

(HALDEX, JS BARNES, MTE, STONE HYDRAULICS etc.)

24V* (CW) *SLOT SHAFT PUMP MOTOR

"WMS" PART NUMBER, W-6555

REPLACES NUMBERS, 18000-056, W6555, 18000-0560
18000-0561, 18000-05610, 7M0080, 18000056
REPLACEMENT FOR 24V NIPPONDENSO MOTOR

(Raised alignment ring is 1.770"/ 44.95mm in diameter)

***24V* (CW) (4) FIELD SLOT SHAFT MOTOR**

WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

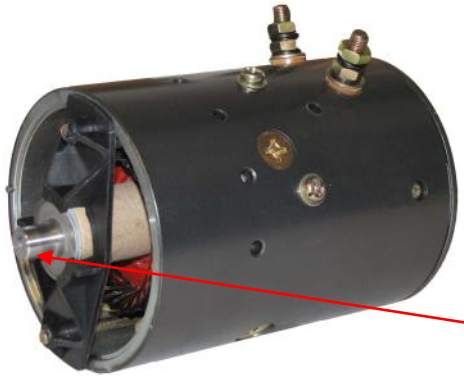
"WMS" PART NUMBER, W-6777

REPLACES NUMBERS,
46-83, 989792, EP351-24, W6777, MBY-2045, MBY-4012, MBY4012

(APPLICATIONS)

(BAKER MATERIAL HANDLING)

(SLOT IN END OF SHAFT IS 0.155"/ 3.93mm WIDE)
(MOTOR HAS A LONGER SHAFT W/A 0.510 DIAMETER SLOT END)



***24V* (CW) SLOT SHAFT MOTOR WITH**
***"INSULATED GROUND"* (2 POST)**

"WMS" PART NUMBER, W-6780

("INSULATED GROUND" VERSION OF NUMBER W-6777)

(APPLICATIONS) (BAKER MATERIAL HANDLING)

(SLOT IN END OF SHAFT IS 0.155"/ 3.93mm WIDE)
(MOTOR HAS A LONGER SHAFT W/A 0.510 DIAMETER SLOT END)

24V (CW) *(DBB"INS" GROUND)*

SLOT SHAFT MOTOR FOR THE *"HESSELMAN PUMP"*

"WMS" PART NUMBER, W-5637

REPLACES, 24MB82LXWA, W5637, AMJ-5637, 11.212.958

(SPECIAL DE FRAME & "NARROW" ARMATURE SLOT)

(APPLICATION) (HESSELMAN PUMPS)

(ARMATURE SLOT SIZE IS .160"/ 4.06mm WIDE)

EASY CHANGE BRUSHES

(Has an optional case "Ground Cable Stud" at the CE of motor)

24V (CW) "HD" *(DBB)* SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8937

REPLACES NUMBERS,
MHX-4001, W8937, MHX-4001S, M1-1999-00, 46-2058, MHX4001

(APPLICATIONS)
(STONE HYDRAULICS, FENNER FLUID POWER, SPX)

("POSITIVE TERMINAL POST" IS AT THE DRIVE END OF THE MOTOR)

24V (CW) PRIMER PUMP MOTOR

"WMS" PART NUMBER, W-8970

REPLACES, MHJ6107S, W8970, 46-3611, MHJ6107

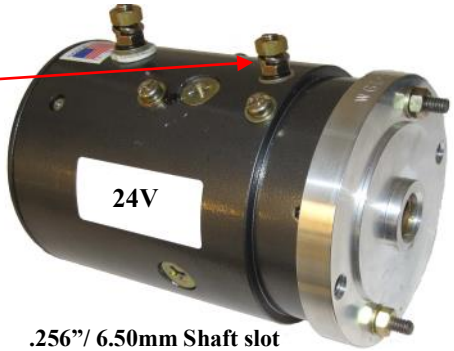
(MOTOR HAS A GROUND CABLE STUD)

(APPLICATIONS) (DARLEY, CHAMPION PUMP)
(FIRE TRUCKS, ENERGY MANUFACTURING CO.)
(OIL WELL PLATFORM FIRE EQUIPMENT ETC.)

(Raised alignment ring on DE frame is 3"/ 76.2mm)

(FOR A "HD" DBB MOTOR WITH SWITCH USE MOTOR NUMBER W-6570)

BUSHING AT CE & DE



.256"/ 6.50mm Shaft slot

24V (CW) *DBB*
MOTOR WITH SLOT SHAFT ARMATURE

"WMS" PART NUMBER, W-14310-24

REPLACES NUMBER, W14310-24, 14310-81100-71
14310-24, 14310-81100-71, 14310-8110071, 1800-1460

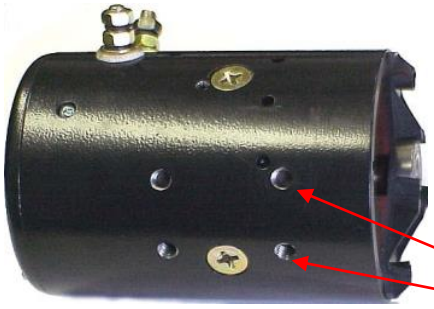
(APPLICATION)

SPECIAL REPLACEMENT FOR A NIPPONDENSO MOTOR

(256"/6.50mm shaft slot is .227"/ 5.765mm out past the ball bearing)

(FOR A 12V VERSION USE NUMBER W-14310-12)

M6 X 1 X 7" THRU BOLTS



.256"/ 6.50mm Shaft slot

24V (CW) SLOT SHAFT MOTOR WITH *"INS" GRD.*
TWO TOP TERMINAL POSTS & (4) *SPECIAL LARGE*
THREADED HOLES IN THE BARREL FOR A MOUNT.
(THRU BOLTS ARE AT THE 6 & 12 POSITION)

"WMS" PART NUMBER, W-8854

REPLACES NUMBERS, W8854, MFD-7004, 725955, 46-2140

(APPLICATIONS) (J.S. BARNES CORP.)

(HAS FOUR SPECIAL 3/8 X 16 MOUNTING HOLES IN FRAME)

FOR A MOTOR WITHOUT THE (4) LARGE THREADED HOLES
IN THE BARREL USE "WMS" PART NUMBER W-8859

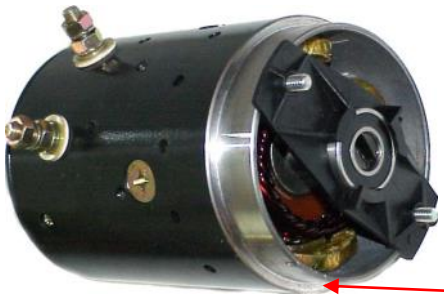
.256"/ 6.50mm Shaft slot

24V(CW/DBB)*"INS/GRD"* SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8859

REPLACES, 326939, 46-2006, 46-2350, 46-3594, 46-2145
W8859, MFD-6104, MFD-6107, MFD-7002, MFD-7007
(FOR "DBB" GOLD MOTOR USE # W-8959)

(APPLICATIONS) (YALE, HIDROIRMA S.P.A.)
(FENNER FLUID POWER, PARKER-HANNIFIN, HYSTER,)



.256"/ 6.50mm Shaft slot

24V(CW/DBB)*"INS/GRD"* SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8869

REPLACES, 326939, 46-2006, 46-2350, 46-3594, 46-2145
W8869, MFD-6104, MFD-6107, MFD-7002, MFD-7007

(APPLICATIONS) (YALE, HIDROIRMA S.P.A.)
(FENNER FLUID POWER, PARKER-HANNIFIN, HYSTER,)

(CUT DOWMN DIAMETER OF THE DRIVE END FRAME IS 4.150)

.256"/ 6.50mm Shaft slot

24V(CW/DBB)*"INS/GRD"* SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8955

REPLACES, 46-2384, 46-2565, 46-3529, MI-2399-00, MHJ-7003
W8955, MHJ-7003A, MHJ-7010, *(CAN USE (DBB) # W-8859)*
(THRU BOLTS ARE AT THE 6 & 12 POSITION)

(APPLICATIONS) (YALE, FENNER FLUID POWER)
(STONE HYDRAULICS, PEDRO ROQUET, FENNER STONE)

.256"/ 6.50mm Shaft slot

24V (CW) *DBB* SLOT SHAFT MOTOR
WITH *"INSULATED GROUND"*

"WMS" PART NUMBER, W-8959

REPLACES NUMBERS,
W8959, 326939, 46-2350, 46-3594, MFD-6107, MFD-7007

(SAME APPLICATIONS AS MOTOR NUMBER W-8859)

24V (CW) *"INSULATED GROUND"*
SLOT SHAFT MOTOR W/CE & DE TERMINAL POSTS

"WMS" PART NUMBER, W-9459

REPLACES NUMBERS,
46-2019, 46-2020, W9459, MHP-4001, MHP-4001S, MHP-4002, MHP-4002S

(APPLICATIONS) (RAYMOND CORP., MONARCH HYDRAULICS)
(CLARK INDUSTRIES, BAKER, FENNER FLUID POWER)

(IF USING A "MONARCH" MOUNTING BRACKET USE THIS MOTOR)

.256"/ 6.50mm Shaft slot

24V (CW) DBB *"INSULATED GROUND"*
SLOT SHAFT MOTOR W/CE & DE TERMINAL POSTS

"WMS" PART NUMBER, W-9459D

REPLACES NUMBERS, 46-2019, 46-2020
W9459D, MHP-4001, MHP-4001S, MHP-4002, MHP-4002S

(APPLICATIONS) (RAYMOND CORP., MONARCH HYDRAULICS)
(CLARK INDUSTRIES, BAKER, FENNER FLUID POWER)

(MOTOR HAS THE 6" LONG FIELD CASE)

.256"/ 6.50mm Shaft slot

24V "HD" (CW) DBB *"INS" GROUND* SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8949

REPLACES, 46-2159, 46-2261, MHX-4002, MHX-4002S
W8949, MHX-4003, M1-2004-20, M1-2011-88, 6V5226

(APPLICATIONS) (STONE HYD., FENNER FLUID POWER)

(MOTOR HAS THE 7" LONG FIELD CASE)

.256"/ 6.50mm Shaft slot

24V (CW) *DBB* SLOT SHAFT MOTOR
WITH *"INSULATED GROUND"*

"WMS" PART NUMBER, W-8960

REPLACES, W8960, AMJ-5529, 6386/2

(SAME APPLICATIONS AS THE W-8859 MOTOR)

(Can use newer style number W-8260)

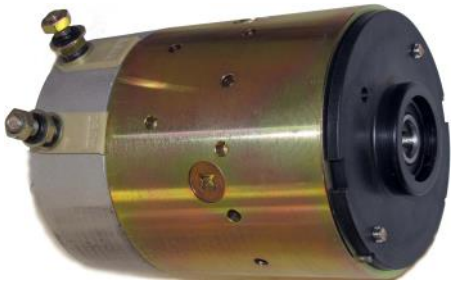
.256"/ 6.50mm Shaft slot

24V (CW) *"INSULATED GROUND"*
(DBB) SLOT SHAFT MOTOR

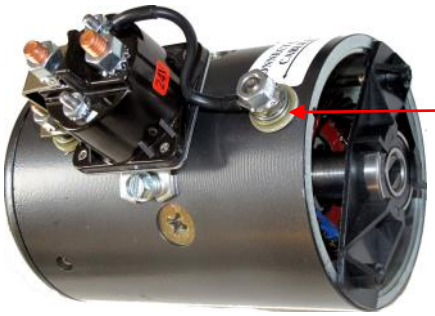
"WMS" PART NUMBER, W-8260

REPLACES, 6386/2, W8260, W-8960, AMJ5529, IM-0021, 164205

(This is a "CW" version of the W-8263)



.256"/ 6.50mm Shaft slot



.256"/ 6.50mm Shaft slot

24V (CW) "DBB" *PRIMER PUMP MOTOR W/SWITCH*

(MOTOR HAS A "INSULATED GROUND" TERMINAL POST)

THIS IS USED ON FIRE TRUCK EQUIPMENT ,

"WMS" PART NUMBER, W-6418

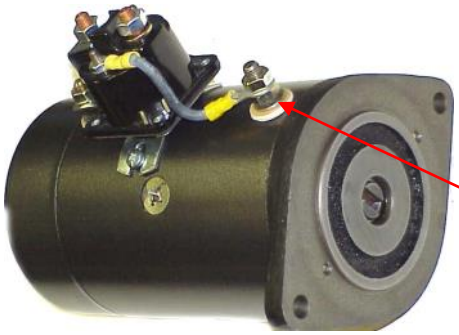
REPLACES NUMBERS, MHP6201, EQ-36107, V3300, MUW6302

(APPLICATIONS) (WATEROUS COMPANY, WISCONSIN ENG.)

(MOTOR HAS A SLOT SHAFT ARMATURE - USE DRIVE END FRAME FROM OLD UNIT)

24V (CW/DBB) (2) POST INS/GRD *PRIMER PUMP MOTOR*

"WMS" PART NUMBER, W-6554



ORIGINAL EQUIPMENT

REPLACES NUMBERS,

200-0062-00-0, MHP-6103, W-6524

W6554, 46-3801, MHP-6103T, MHP-6204S

(APPLICATIONS) (*24V* HALE PRIMER PUMPS)

(THIS IS A "INSULATED" GROUND MOTOR AND

REQUIRES A GROUND CABLE TO THE TERMINAL AT DE)

(Armature shaft slot is .256"/ 6.50mm wide)

(Raised alignment ring on DE frame is 3.25"/ 82.55mm)

"OEM" *24V* (CW) *PRIMER PUMP MOTOR*

"WMS" PART NUMBER, W-6560

ORIGINAL EQUIPMENT

REPLACES NUMBERS,

200-0063-00-0, ESP-24, MHP-6103T, MHP-6204S

(APPLICATIONS)

(*24V* HALE PRIMER PUMPS) (2012 +)

("INSULATED" GROUND STYLE)

**(NOTE)* THIS IS THE LATEST 24V HALE DESIGN*

(Armature shaft slot is .256"/ 6.50mm wide)

(Raised alignment ring on DE frame is 3.25"/ 82.55mm)

(FOR 12V USE NUMBER W-6563)

***24V* (CW) "INSULATED GROUND"**
COMPLETE WITH THE DE FRAME

"WMS" PART NUMBER, W-6151

REPLACES NUMBERS, W6151, W-6124
(This is a CW version of the W-6150)
(APPLICATIONS)
(HALDEX BARNES, CLARK EQUIP. etc.)
(FOR A 12V VERSION USE NUMBER W-6110)

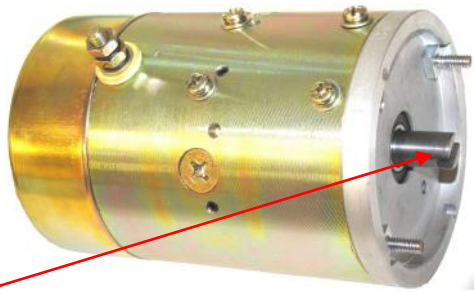
***24V* (CW/DBB) EXTENDED SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W-8444

REPLACES NUMBERS, 8444, 5444, DZ24

(THIS IS A "24V" VERSION OF THE W-8244)
(MOTOR HAS (4) SPECIAL SWITCH HOLES)

(Extended slot shaft is .945"/ 24.00mm out from the bearing race)



24V* (HD/CW) *(DBB"INS" GROUND)
SLOT SHAFT MOTOR FOR THE *"HESSELMAN PUMP"*

"WMS" PART NUMBER, W-8528

REPLACES, W8528,
(SPECIAL HOLES IN THE DE FRAME)
(APPLICATION) (HESSELMAN PUMPS)
(This HD motor is 1" / 25.4mm longer than the standard duty 6.5" long motor)

.256"/ 6.50mm Shaft slot
Overall length 7.5"/190.5mm

“MOST POPULAR”

24V INSULATED GROUND CCW SLOT SHAFT MOTOR

.256”/ 6.50mm Shaft slot

24V (CCW) *“INSULATED GROUND”*
(DBB) SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-8950

REPLACES NUMBERS, 2200626, 2200871, 39200295, 9130450060, 39200393, 540-011, PR2-0068N, M-2200, MUF-6102, 2200526 8119, 107-302, 517161603, MUF-6102S, W8950, MUF-7002S, 46-3639

(CAN USE “GOLD” DBB STYLE) NUMBER W-8961)

(THRU BOLTS ARE AT THE 6 & 12 POSITION)

(APPLICATIONS) (HALDEX, CONCERTRIC)

(MONARCH HYDRAULICS, MTE HYDRAULICS)

(FIELD CASE HAS “MULTI” HOLES FOR MOUNTING SWITCHES)

(THIS IS THE “MOST POPULAR” CCW 24V PUMP MOTOR)

FOR A MOTOR WITH THE DOG HOUSE DE FRAME USE W-6150

.256”/ 6.50mm Shaft slot

24V (CCW) *DBB*, SLOT SHAFT MOTOR WITH *“INSULATED” GROUND* AND (2) TERMINAL POSTS AT THE COMM END

“WMS” PART NUMBER, W-8961

REPLACES, W8961, 220-0356, AND SAME NUMBERS AS ABOVE # W-8950

(THIS IS A GOLD FENNER STYLE OF THE ABOVE)

(PRESTOLITE STYLE MOTOR NUMBER W-8950)

.256”/ 6.50mm Shaft slot

BUSHING COMM END FRAME

24V (CCW) *“INSULATED GROUND”*
SLOT SHAFT MOTOR WITH BUSHING CE FRAME

“WMS” PART NUMBER, W-8952

REPLACES, W8952, 46-2549, 46-2573, MFD-6103, MFD-6103A MFD-6201, MFD-6202, MFD-6203, MFD-6204, MFD-7008, MFD-7009, W-8954, 8102, 220-0058, 220-0229, MUF-6104, MUF-6104S

(THRU BOLTS ARE AT THE 6 & 12 POSITION)

(FOR DOUBLE BALL BEARING MOTOR USE “GOLD” STYLE NUMBER, W-8962 OR PRESTOLITE STYLE NUMBER W-8950)

(APPLICATIONS) (MTE, HYSTER EQUIPMENT)

(MONARCH HYD., PARKER HANNIFIN, J.S. BARNES)

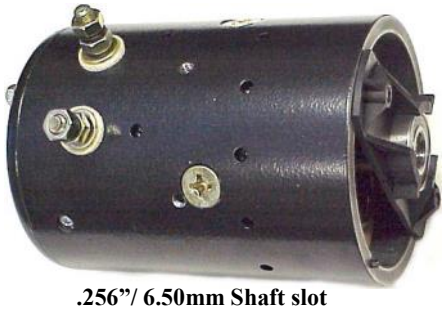
24V (CCW) *"INSULATED GROUND"*
"DBB" SLOT SHAFT MOTOR

(THRU BOLTS ARE AT THE 6 & 12 POSITION)

"WMS" PART NUMBER, W-8817

REPLACES NUMBERS, W8817, 46-3622, MUF-6103

(APPLICATIONS) (MONARCH HYDRAULICS ETC.)



.256"/ 6.50mm Shaft slot

24V (CCW) *"INSULATED GROUND"*
SLOT SHAFT MOTOR
(THRU BOLTS ARE AT THE 6 & 12 POSITION)

"WMS" PART NUMBER, W-8917

REPLACES NUMBERS, W8917, 46-3623, MUF-6104, MUF-6104S

(APPLICATIONS) (MONARCH AND MTE HYDRAULICS ETC.)

.256"/ 6.50mm Shaft slot

24V (CCW) SLOT SHAFT MOTOR WITH INSULATED GROUND
(THRU BOLTS ARE AT THE 6 & 12 POSITION)

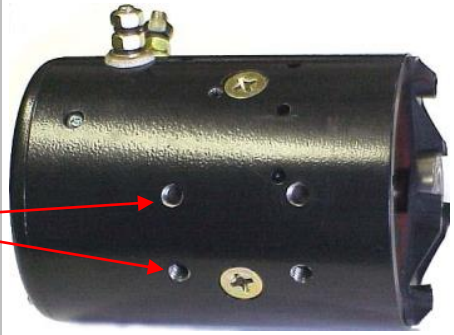
"WMS" PART NUMBER, W-8979

REPLACES NUMBERS, 46-2167, 46-2181, MFD-6101, MFD-6105
W8979, 46-2023, GC-3911, C1595351, 992469, MFD-6201, MFD-6201A

(APPLICATIONS) (J.S. BARNES CORP.)

(HAS (4) SPECIAL 3/8 X 16 MOUNTING HOLES IN BARREL)

FOR A MOTOR WITHOUT THE (4) LARGE THREADED HOLES IN THE BARREL USE "WMS" PART NUMBER W-8952.
(For a motor complete with the mounting plate bolted to the field frame use Western Motor number W-8979WB)



.256"/ 6.50mm Shaft slot

**24V* (CCW) *"INSULATED GROUND"* **
(DBB) SLOT SHAFT MOTOR WITH 3 & 9 THRU BOLTS

"WMS" PART NUMBER, W-9063

REPLACES NUMBERS, W9063, 929277, 2200972, 39200455

(APPLICATIONS)(HALDEX BARNES, HALDEX BARNES)

(MONARCH HYDRAULICS, MTE HYDRAULICS)

.256"/ 6.50mm Shaft slot

**24V* "HD" (CCW) *"INSULATED GROUND"* **
(DBB) SLOT SHAFT MOTOR,

"WMS" PART NUMBER, W-8948

REPLACES NUMBERS, 46-2574, MUD-4001
MUD4001, W8948, MUD-4001S, 62174-6, 2200233, 220-0233

(APPLICATIONS) (CLARK AND J.S. BARNES CORP.)

(Overall length of motor is 7")

.256"/ 6.50mm Shaft slot

**** VERY POPULAR ****
24 VOLT PUMP MOTOR

.256"/ 6.50mm Shaft slot

24V (CCW) *"INSULATED GROUND"* SLOT SHAFT MOTOR W/CE & DE TERMINAL POSTS

"WMS" PART NUMBER, W-9405

REPLACES NUMBERS, 10S00038, 46-0620, 46-2073
043124, 8104, 8120, 570-429, 570429100, MHJ-2097
W9405, MHP-4005, MHP-4005S, MHP-4009, MHP-4009S

(FOR DOUBLE BALL BEARING USE NUMBER W-9405D)

(APPLICATIONS) (RAYMOND CORP., MONARCH HYDRAULICS)
(CLARK INDUSTRIES, BAKER, FENNER FLUID POWER)

(IF USING A "MONARCH" MOUNTING BRACKET USE THIS MOTOR)

.256"/ 6.50mm Shaft slot

48V (CCW/DBB) *"INSULATED GROUND"* SLOT SHAFT MOTOR W/TWO POSTS

"WMS" PART NUMBER, W-8048

REPLACES NUMBERS, W8048, 08055I, 8055, 08055M, 08055

(APPLICATIONS)

(MONARCH & BUCHER HYDRAULICS, CLARK INDUSTRIES)

.256"/ 6.50mm Shaft slot

24V(CCW) *DBB*, SLOT SHAFT MOTOR WITH *"INSULATED" GROUND* AND WITH THE (2) TERMINAL POSTS AT THE COMM END

"WMS" PART NUMBER, W-8963

(REPLACES, W-8263, W8963, 6386/2, 638622095, 2200972, 39200455)

(THRU BOLTS ARE AT THE 3 & 9 POSITION)

24V (CCW) SLOT SHAFT MOTOR W/*"INS" GROUND* (2) TERMINAL POSTS AT THE COMM END

"WMS" PART NUMBER, W-3531

REPLACES NUMBERS,
W3531, IM-0217, L836209, 836209, 08031

(APPLICATIONS) (GENIE LIFTS, MONARCH HYDRAULICS ETC.)
(ARMATURE SHAFT TANGS ARE .288/ 7.32mm LONG)

**** NOTE ****
THESE TWO NUMBERS HAVE DIFFERENT LENGTH TANG FINGERS ON THE ARMATURE SHAFTS, PLEASE CHECK THE LENGTH NEEDED

24V (CCW) SLOT SHAFT MOTOR W/*"INS" GROUND* (2) TERMINAL POSTS AT THE COMM END

"WMS" PART NUMBER, W-3533

REPLACES NUMBERS, W3532, S200431, S200*431, S200-431

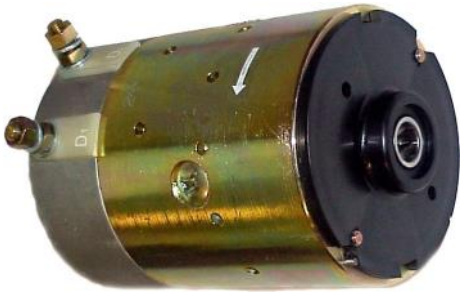
(APPLICATIONS) (GENIE LIFTS, MONARCH HYDRAULICS ETC.)
(ARMATURE SHAFT TANGS ARE .228"/ 5.79mm LONG)

***24V*(CCW) *DBB,* SLOT SHAFT**
MOTOR WITH *"INSULATED" GROUND* AND WITH
(2) TERMINAL POSTS AT THE COMM END

"WMS" PART NUMBER, W-8263

REPLACES NUMBERS, IM-0137, W-8963, 11216206, W8263, 56021303

(THRU BOLTS ARE AT THE 3 & 9 POSITION)



.256"/ 6.50mm Shaft slot

***24V*(CCW) *DBB,* SLOT SHAFT**
MOTOR WITH *"INSULATED" GROUND* AND WITH
(2) TERMINAL POSTS AT THE COMM END

"WMS" PART NUMBER, W-8263A

REPLACES NUMBERS, AMJ4768, W8263A, 11.216.300, AMJ-4768

(THRU BOLTS ARE AT THE 3 & 9 POSITION)
(THIS MOTOR HAS "OVERLOAD" PROTECTION)

.256"/ 6.50mm Shaft slot

***24V*(CCW) *DBB,* SLOT SHAFT**
MOTOR WITH *"INSULATED" GROUND* AND WITH
(2) TERMINAL POSTS AT THE COMM END

"WMS" PART NUMBER, W-8963A

REPLACES NUMBERS, AMJ4768, W8963A, 11.216.300, AMJ-4768

(THRU BOLTS ARE AT THE 3 & 9 POSITION)
(THIS MOTOR HAS "OVERLOAD" PROTECTION)

.256"/ 6.50mm Shaft slot

***24V*(CCW) *DBB,* SLOT SHAFT**
MOTOR WITH *"INSULATED" GROUND* AND WITH
(2) TERMINAL POSTS AT THE COMM END

"WMS" PART NUMBER, W-8963B

REPLACES, W8963B, 638622095, 1075402, 56021303

(THRU BOLTS ARE AT THE 3 & 9 POSITION)
(This motor does not have a spacer washer behind
the ball bearing at the drive end of the armature shaft)

(The thru bolts are out .450 past the end of the field frame)

.256"/ 6.50mm Shaft slot

***24V*(CCW) *DBB,* SLOT SHAFT**
MOTOR WITH *"INSULATED" GROUND* AND WITH
(2) TERMINAL POSTS AT THE COMM END

"WMS" PART NUMBER, W-8963C

(REPLACES NUMBERS, W8963C, 56021303, 2200976

(THRU BOLTS ARE AT THE 3 & 9 POSITION)
(This motor does not have a spacer washer behind
the ball bearing at the drive end of the armature shaft)

(The thru bolts are out .325 past the end of the field frame)
(For a motor with the spacer washer behind the bearing use W-8963D)

.256"/ 6.50mm Shaft slot

.256"/ 6.50mm Shaft slot

48V (CCW) "INSULATED GROUND" SLOT/SHA/MOTOR COMPLETE WITH THE SWITCH & DE FRAME

"WMS" PART NUMBER, W-6148

REPLACES NUMBERS,
W6148
(APPLICATIONS)
(HALDEX BARNES, SOUTHWORTH PRODUCTS etc.)

.256"/ 6.50mm Shaft slot

.256"/ 6.50mm Shaft slot

24V (CCW) "INSULATED GROUND" COMPLETE WITH THE DE FRAME

"WMS" PART NUMBER, W-6150

REPLACES NUMBERS, AT6-200, 10022206, W6150, 83500121,
(APPLICATIONS)
(HALDEX BARNES, CLARK EQUIP. etc.)
(For a CW motor use number W-6151)

24V (CCW) "INSULATED GROUND" COMPLETE WITH THE SWITCH & DE FRAME

"WMS" PART NUMBER, W-6152

REPLACES NUMBERS, W6152, 810057856, B10057856
(HALDEX BARNES, SOUTHWORTH, CLARK EQUIP. etc.)
(This motor has the standard vertical switch)

24V (CCW) "INSULATED GROUND" COMPLETE WITH THE SWITCH & DE FRAME

"WMS" PART NUMBER, W-6153

REPLACES NUMBERS, W6152, 810057856, B10057856
(HALDEX BARNES, SOUTHWORTH, CLARK EQUIP. etc.)
(This motor has the late style horizontal switch)

.256"/ 6.50mm Shaft slot

24V (CCW) "INSULATED GROUND" COMPLETE WITH THE DE FRAME & SPEC/SW/HOLES

"WMS" PART NUMBER, W-6154

REPLACES NUMBERS, W6154, 39200516, MUW6301
(APPLICATIONS)
(HALDEX BARNES, MTE EQUIP. etc.)

***24V* (CCW) "INSULATED GROUND"**
SLOT SHAFT MOTOR WITH (4) THRU BOLT MOUNTING

"WMS" PART NUMBER, W-8450

(THRU BOLTS ARE AT THE 3 & 9 AND THE 6 & 12 POSITION)

(APPLICATIONS) (HALDEX, CONCERTRIC)

(MONARCH HYDRAULICS, MTE HYDRAULICS)

(FIELD CASE HAS "MULTI" HOLES FOR MOUNTING SWITCHES)

***24V* (CCW) VENTED "INSULATED GROUND" SLOT SHAFT MOTOR WITH INTERNAL FAN & RAIN COVER**

"WMS" PART NUMBER, W-7224

(THRU BOLTS ARE AT THE 3 & 9 POSITION)

(APPLICATIONS) (HALDEX, CONCERTRIC)

(MONARCH, BUCHER, MTE HYDRAULICS)

(7" LONG "VENTED" VERSION OF THE W-8963 & THE W-8263)

**24V* (CCW) INS/DBB "ALLEN SHAFT" MOTOR*

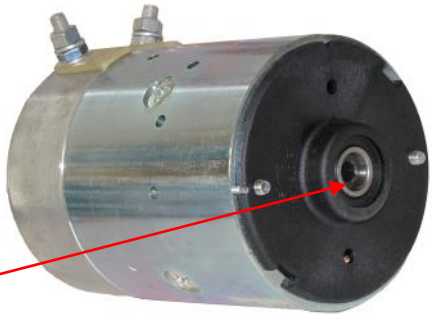
"WMS" PART NUMBER, W-8344

(REPLACES NUMBER, W-8304-24V, W8344,

(APPLICATIONS) (HALDEX BARNES)

(This motor has a 5/16" / 0.3125" / 8mm "Female Allen shaft" hole)

(For 12V use number W-8304)



***24V* (CCW) "INSULATED GROUND"**
SLOW RPM SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8101

REPLACES, W8101, MHG-4001, 46-840, MHG-4101, 46-3551
MHG-4101A, 1782205, 1790893, 2200642, 2200070, MHG-4201

(APPLICATIONS) (J.S. BARNES, CLARK EQUIP. etc.)

.256"/ 6.50mm Shaft slot

24V (4) POST SHAFT MOTOR (INS / GRD.)

"WMS" PART NUMBER, W-5048N

REPLACES NUMBERS, W5050N, MHC4009

MHC-4009, 730017001, 160466, 722175021, 7300470-01

APPLICATIONS, HYSTER

(GEAR AND PULLEY / FAN ASSEMBLY MUST BE USED OVER FROM THE OLD MOTOR)

24V (4) POST SHAFT MOTOR (INS / GRD.)

"WMS" PART NUMBER, W-5051N

REPLACES NUMBERS, W5051N, 128689, 7222360-21

APPLICATIONS, HYSTER

(GEAR AND PULLEY / FAN ASSEMBLY MUST BE USED OVER FROM THE OLD MOTOR)

24V (4) POST SHAFT MOTOR (INS / GRD.)

(UNIT IS COMPLETE AS SHOWN W/PULLY ETC.)

"WMS" PART NUMBER, W-5052N

REPLACES, W5052N, 7300240-21, 2302180
8620086, 86200-86, 73000240-21, 65052N, 24410, Y45

APPLICATIONS, HYSTER

(The threads on the shaft are 5/16 X 18)

(The three mounting holes in the end of the field frame are 1/4X28)

(THE W-5052N HAS ALL TERMINALS IN THE FIELD FRAME)

FRENCH STYLE

12V "CCW" TANG SHAFT MOTOR (INS / GRD.)

"WMS" PART NUMBER, W-5812

REPLACES NUMBERS, W5824, 114225D

(APPLICATIONS) (YALE HYDROPERFECT)

(NEW HD REPLACEMENT FOR THE FRENCH MOTOR)

(MOTOR COMES COMPLETE WITH 24" LONG CABLES ATTACHED TO THE TERMINAL POSTS)

(Raised alignment ring diameter is 3.270"/ 83.05mm)

(Special DE frame <> hole to hole distance is 3.5"/88.90mm)

(Tang shaft diameter is .355"/ 9.mm & .150"/ 3.81mm flat to flat)

(For a 24V motor use number W-5824)

***12V // 24V* *(BI-DIRECTIONAL) (DBB)* MOTOR**

HAS (2) TERMINAL POST & (2) LEAD CONNECTIONS

WITH A "WORM / GEAR" ARMATURE SHAFT

"WMS" PART NUMBER, W-6850

(DRIVE END FRAME HAS (4) MOUNTING HOLES)

REPLACES, W6850, W6750, TBM9742PO, 160-827, 300105, 300105-001
W-6750, 430-22006, 7407-263, M-4080, 115956, 115986, & MANY OTHERS.

(APPLICATIONS) (AUTO CRANES)

New design with welded armature and brush holder connections

***24V* "CCW" TANG SHAFT MOTOR (INS / GRD.)**

"WMS" PART NUMBER, W-5800

REPLACES NUMBERS, W5800, 125-69, 126-59, 58012669
12669, 58001-36069, 58001360-69, 5800126-69, 5800126

(APPLICATIONS) (YALE HYDROPERFECT)

(MOTOR COMES COMPLETE WITH 24" LONG
CABLES ATTACHED TO THE TERMINAL POSTS)

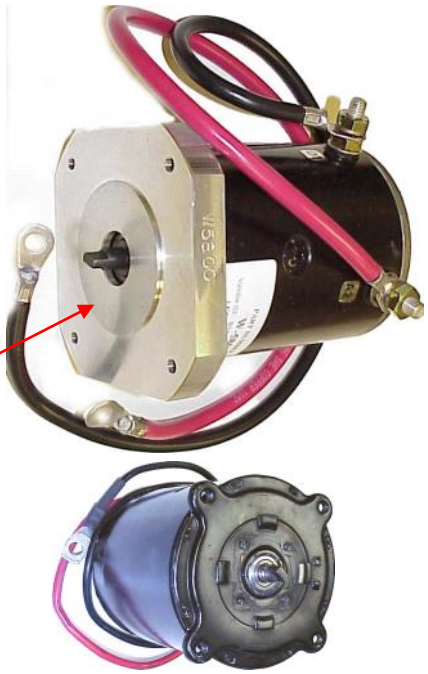
(NEW HD REPLACEMENT FOR THE FRENCH MOTOR)

(Raised alignment ring diameter is 2.50"/ 63.05mm)

(6.mm mounting holes, spread hole to hole across is 3"/ 76.2mm)

(Tang shaft diameter is 9.mm (.355") & 3.81mm (.150") flat to flat)

***** NOTE ** (FOR A W-5800 MOTOR WITH 45" LONG CABLES USE "WMS" PART NUMBER W-5845)***



FRENCH STYLE

***24V* "CCW" TANG SHAFT MOTOR (INS / GRD.)**

"WMS" PART NUMBER, W-5824

REPLACES NUMBERS, W5824, 114225D

(APPLICATIONS) (YALE HYDROPERFECT)

(NEW HD REPLACEMENT FOR THE FRENCH MOTOR)

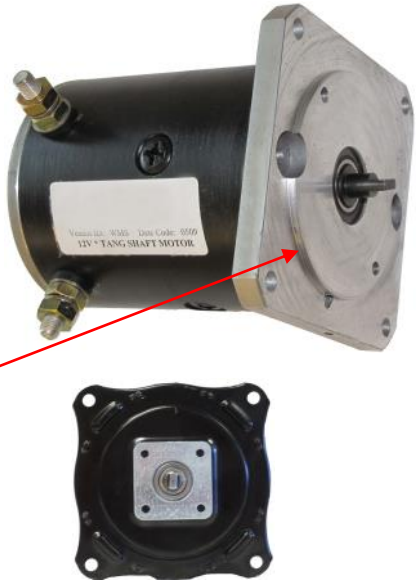
(MOTOR COMES COMPLETE WITH 24" LONG
CABLES ATTACHED TO THE TERMINAL POSTS)

(Raised alignment ring diameter is 3.270"/ 83.05mm)

(Special DE frame <> hole to hole distance is 3.5"/88.90mm)

(Tang shaft diameter is .355"/ 9.mm & .150"/ 3.81mm flat to flat)

(For a 12V motor use number W-5812)



FRENCH STYLE

3.8" DIAMETER <> "NLA"

SEE NOTE TO RIGHT

***12V* *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR**

"WMS" PART NUMBER, W-7932 <> "NLA"

REPLACES, W7932, MRVB9, 32460, 27332, MRV-B9

("NOTE" THIS MOTOR IS 3.8" DIAMETER & "NLA")

(WARN INDUSTRIES, WAPSA, WARN WINCH'S)

*****NOTE** IF YOUR MOTOR HAS THE ROUND DRIVE END FRAME YOU CAN USE THE COMPLETE WESTERN MOTOR NUMBER W-9120DB TO REPLACE THE "NLA" NUMBER W-7932***

*** VERY POPULAR ***
*** 12 VOLT WINCH MOTOR ***

12V* *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR WITH (20) *" TWENTY SPLINE SHAFT "

"WMS" PART NUMBER, W-7923D

REPLACES, WW7923, 16548, 160799, 25314, 25981, 25982, MRV-B7

(APPLICATIONS)

MODELS, XD9000, XD9000I, MX8000, M8000, MX6085

(WARN INDUSTRIES, WAPSA, WARN WINCH'S)

ALSO FOR MANY MARINE APPLICATIONS

12V* *(BI-DIRECTIONAL)"DBB"* (3 POST) WINCH MOTOR WITH (20) *" TWENTY SPLINE SHAFT "

"WMS" PART NUMBER, W-8923D

REPLACES NUMBERS, 9130450047, 7536, 15747, 15877, 17102, 18184

W8923, 226626, 26629, D-2000, M-1900, 458058,11212449, 7682, AMJ-4635

SUPERWINCH NUMBERS, M-2401, 2401, M-2404, 2404

(APPLICATIONS) MX12085, M12000, MX10000, M10000, M8274

(SUPERWINCH HUSKY SERIES)

(ARCO MARINE, WARN INDUSTRIES, WARN WINCH'S)

(MRV-B4, MRV-B5, 15747, 17102, 18184 HAVE OVERLOAD DEVICE)

(FOR A MOTOR WITH OVERLOAD DEVICE USE NUMBER W-5623, OR USE W-8923D AND BYPASS THE OLP DEVICE)

(FOR A 4.8 HP MOTOR USE NUMBER W-7623)

12V* *(BI-DIRECTIONAL)* (3 POST) "DBB" WINCH MOTOR WITH (20) *" TWENTY SPLINE SHAFT " & OLP

"WMS" PART NUMBER, W-5623

REPLACES NUMBERS,

W5623, 81560, 39322, 15747, 17102, MRVB4, 18184, MRVB5

F000MM0618, 31681, 2401, 2404, MCV-B-4, MRV-B-4, MRV-B-5

(APPLICATIONS)

MODELS, MX12085, M12000, MX10000, M10000, M8274,

(SUPERWINCH HUSKY SERIES)

(ARCO MARINE, WARN INDUSTRIES, WARN WINCH'S)

**** 4.8" PERMANENT MAGNET WINCH MOTOR ****

***12V* FOR WARN 4.8" DIA. (PM) W/TANG SHAFT**

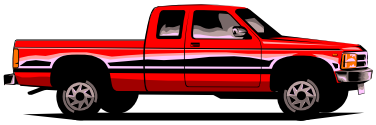
"WMS" PART NUMBER, W-8818N

REPLACES NUMBERS,
W8818, 14114, W8818N, SM-43487, 4348720M048HM, HM-43487
(APPLICATIONS) (WARN WINCH) (M6000 # 13718)
(*Note* This new replacement is identical to the "Original" Warn)

12V* *(BI-DIRECTIONAL)*(3 POST) "DBB" MOTOR WITH (20)*" SPLINE SHAFT "& DRIVE END FRAME

"WMS" PART NUMBER, W-9120DB

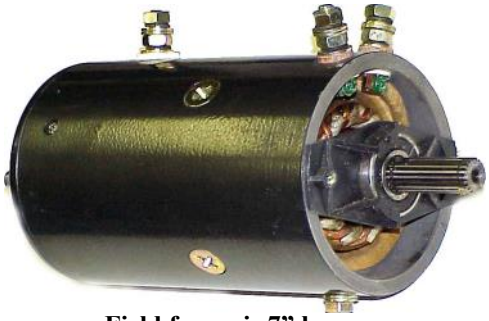
REPLACES, 18184, 31560, MRV-B-5, W9120, 26629, MRV-B4, MRVB5
(APPLICATIONS) MX12085, M12000, M10000, ETC.
(WARN INDUSTRIES, WAPSA, WARN WINCH'S)
(THIS IS THE SAME AS THE W-8923D MOTOR ONLY COMPLETE WITH DRIVE END FRAME)



***12V* *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR WITH (20) SPLINE SHAFT ("DBB" 4.8 HP)**

"WMS" PART NUMBER, W-7623

REPLACES NUMBERS, W-7620, W-7623D, W-8923D, W-8923
7536, 15877, F000MM0626, W7623, 7682, AMJ-4635
SUPERWINCH NUMBERS, M-2401, 2401, M-2404, 2404
(APPLICATIONS) MODELS, MX12085, M12000, MX10000,
M10000, M8274, (SUPERWINCH HUSKY SERIES)
(ARCO MARINE, WARN INDUSTRIES, WARN WINCH'S)



Field frame is 7" long

***12V* *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR (20) SPLINE ARMATURE SHAFT ("DBB" 6 HP)**

"WMS" PART NUMBER, W-7608

EXTRA HEAVY DUTY REPLACEMENT FOR MOTOR NUMBERS

W7608, W-8923, W-8923D, W-7623, 7536, 15877, 226626, 26629
D-2000, W-7618, 458058, 11212449, AMJ-4635, MUQ6205S

SUPERWINCH NUMBERS, M-2401, 2401, M-2404, 2404
(APPLICATIONS) MODELS, MX12085, M12000, MX10000,
M10000, M8274, (SUPERWINCH HUSKY SERIES)
(ARCO MARINE, WARN INDUSTRIES, WARN WINCH'S)
(SPECIAL PARALLEL FIELD COILS FOR POWER)

Field frame is 7" long

Terminals are 7/8" long & come out the back of the CE frame

MOTOR BODY LENGTH IS 5.75"

USE'S 1/4 X 20 THRU BOLTS

* 12V * *(F & R) DBB* (2) POST MOTOR

(FORWARD & REVERSE) TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8092D

REPLACES NUMBERS, W8092B, W-8092, W8092, 21592, 21594

(APPLICATIONS) (3" WARN WINCH MOTORS) *(1 HP)*

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(Shaft diameter is .520"/ 13.20mm <> Flat to flat width is .380"/ 9.652mm wide)

(SHAFT LENGTH FROM THE END OF THE DRIVE END FRAME TO THE END OF SHAFT PAST THE SNAP RING GROOVE IS 0.900"/ 22.86mm)

(For a similar motor with a shaft length of 0.910"/23.11mm and with a drive end frame mounting area I.D. of 2.925"/ 74.295mm use number W-8057L)

SHA/GEAR LENGTH IS 0.725"

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR

WITH *"TWELVE (12) TOOTH GEAR SHAFT"* *3.4HP*

"WMS" PART NUMBER, W-7912

REPLACES, W7912, M38951, 38951, 39436, 803206, F005MM0605

12V WARN WINCH NUMBERS, HS9500I

(APPLICATIONS) (WARN INDUSTRIES, WARN WINCH'S)

WITH OVERLOAD PROTECTION

SHA/GEAR LENGTH IS 0.725"

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR

WITH *"TWELVE TOOTH GEAR SHAFT" & "OLP"* *3.4HP*

"WMS" PART NUMBER, W-7912A

REPLACES NUMBERS,

W7912A, 63546, 64635, M63546, F006MM0610,

12V WARN WINCH NUMBERS, HS9500TI

(APPLICATIONS) (WARN INDUSTRIES, WARN WINCH'S)

WITH OVERLOAD PROTECTION

Field frame is 6" long

*** "DBB" / WINCH MOTOR W/OLP ****

12V *(F & R)* (3 POST) WINCH MOTOR *3.4HP*

(MOTOR HAS TWO WIRES FOR "OVERLOAD PROTECTION)

"WMS" PART NUMBER, W-5618A

REPLACES NUMBERS, 72736, F000MM0630

(APPLICATIONS) WARN INDUSTRIES

(THE SHORT "20" SPLINE SHAFT IS 0.728"/ 18.49mm OUT FROM BEARING)

* 12V * *(F & R) DBB* (2) POST MOTOR

(FORWARD & REVERSE) TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8804D

REP. W8804B, 106040, 106-040, W8804, 13880, 25311, 4348828M030MM

(APPLICATIONS) (3" WARN WINCH MOTORS)

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(Shaft diameter is .520"/ 13.20mm <> Flat to flat width is .380"/ 9.652mm wide)

(SHAFT LENGTH FROM THE END OF THE DRIVE END FRAME TO THE END OF SHAFT PAST THE SNAP RING GROOVE IS 1.270"/ 32.25mm)

Terminals are 7/8" long & come out the back of the CE frame

MOTOR BODY LENGTH IS 5.75"

USE'S 1/4 X 20 THRU BOLTS

*** POPULAR ***
*** 12 VOLT WINCH MOTOR ***

12V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR

*HAS A .669" DIAMETER SHAFT WITH 3/16 BAR KEY SLOT *3.4HP**

"WMS" PART NUMBER, W-8941

REPLACES NUMBERS, MBJ4401, MBJ4401S

W8941, 8274, 8796, M-3600, MBJ-4401, MBJ-4401S, 46-2262

(APPLICATIONS) (BRADEN INDUSTRIES, & WARN WINCH)

(FOR A "HD" 4.8 HP MOTOR USE NUMBER W-7641)

(Length from the bearing shoulder stop to the end of shaft is 2.375"/ 60.3mm)

Field frame is 6" long

12V (*BI-DIRECTIONAL*) (3 POST) "DBB" WINCH MOTOR

*HAS A .669" DIAMETER SHAFT WITH 3/16 BAR KEY SLOT *3.4HP**

"WMS" PART NUMBER, W-8941D

REPLACES NUMBERS,

W8941D, 8274, 8796, M-3600, MBJ-4401, MBJ-4401S,

(APPLICATIONS) (BRADEN INDUSTRIES, & WARN WINCH)

(FOR A "HD" 4.8 HP MOTOR USE NUMBER W-7641)

(Length from the bearing shoulder stop to the end of shaft is 2.375"/ 60.3mm)

Field frame is 6" long

12V (*BI-DIRECTIONAL*) (3 POST) "DBB" WINCH MOTOR

*HAS A .669" DIAMETER SHAFT WITH 3/16 BAR KEY SLOT *4.8HP**

"WMS" PART NUMBER, W-7641

REPLACES NUMBERS, MBJ4401, MBJ4401S

W7641, 8274, 8796, M-3600, MBJ-4401, MBJ-4401S, 46-2262

(APPLICATIONS) (BRADEN INDUSTRIES, & WARN WINCH)

(Length from the bearing shoulder stop to the end of shaft is 2.375"/ 60.3mm)

(THIS IS THE "HD" 4.8 HP MOTOR TO REPLACE NUMBER W-8941 & W-8941D)

Field frame is 7" long

12V *(BI-DIRECTIONAL)* (6 HP/3 POST)

"DBB" WINCH MOTOR *WITH INLINE TERMINALS*

AND A .625"/ 15.87mm DIAMETER SHAFT **6 HP**

"WMS" PART NUMBER, W-7606

REPLACES NUMBERS, W7627, MBJ-4406, 32K28756, 32K28756W
W-8927, W-8927D, 28755, 32K28755, 32K28756, MUQ6204, MUQ6302

(APPLICATIONS)

(RUGER EQUIPMENT, CRANES, REDWOOD RELIANCE)

(RELIANCE TRAILER WINCH)
(TRACTOR / TRAILER AUTOMOBILE CAR HAULING RIGS)

Overall motor body length is 8"/ 203.2mm long
Raised alignment ring diameter is 3"/ 76.20mm
For a motor with triangle terminal posts use W-7627
Shaft length from the drive end frame is 1.625"/ 41.27mm

12V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR

.625" DIAMETER SHAFT *DBB* **4.8HP**

"WMS" PART NUMBER, W-7627

REPLACES NUMBERS,
RR-1093, W7627, MBJ-4406, W-8927, W-8927D, 28755, 32K28755

(APPLICATIONS)
(RUGER EQUIPMENT, CRANES, REDWOOD RELIANCE)

(RELIANCE TRAILER WINCH) (4.8 HP)
(TRACTOR / TRAILER CAR HAULING RIGS)

Overall motor body length is 8"/ 203.2mm long
Raised alignment ring diameter is 3"/ 76.20mm
For a motor with inline terminal posts use W-7606
Shaft length from the drive end frame is 1.625"/ 41.27mm

WITH .625" DIA. SHAFT

*12V**(BI-DIRECTIONAL)*DBB** 4 POST INS/GRD MOTOR

"WMS" PART NUMBER, W-7634

(THIS IS A "INSULATED" GROUND VERSION
*OF THE NUMBERS LISTED BELOW) *4.8HP**

W7634, MBJ-4406, W-7627, W-8927, W-8927D

(APPLICATIONS) (RUGER EQUIPMENT, REDWOOD RELIANCE,
RELIANCE TRAILER WINCH)
(TRACTOR / TRAILER AUTOMOBILE CAR HAULING RIGS)

Overall motor body length is 8"/ 203.2mm long
Raised alignment ring diameter is 3"/ 76.20mm
For a motor with inline terminal posts use W-7606
Shaft length from the drive end frame is 1.625"/ 41.27mm

12V ***(BI-DIRECTIONAL)*** **(3 POST) WINCH MOTOR**

HAS .625"/ 15.87mm DIA. SHAFT WITH WOODRUFF KEY SLOT

"WMS" <u>PART NUMBER, W-8927</u>

REPLACES, W8927, 16-700, 46-2286, MBJ-4208, MBJ-4406.

(APPLICATIONS) (RUGER EQUIP., CRANES, ETC.) ****3.4 HP****

(FOR THE "HD" 4.8 HP MOTOR USE W-7627)

Raised alignment ring diameter is 3"/ 76.20mm
Shaft length from the drive end frame is 1.625"/ 41.27mm

(DBB VERSION OF ABOVE MOTOR)

12V ***(BI-DIRECTIONAL)*** **(3 POST) WINCH MOTOR**

HAS .625"/ 15.87mm DIA. SHAFT WITH WOODRUFF KEY SLOT

"WMS" <u>PART NUMBER, W-8927D</u>

REPLACES, W8927D, 16-700, 46-2286, MBJ-4208, MBJ-4406.

(APPLICATIONS) (RUGER EQUIP., CRANES, ETC.) ****3.4 HP****

(FOR THE "HD" 4.8 HP MOTOR USE W-7627)

Raised alignment ring diameter is 3"/ 76.20mm
Shaft length from the drive end frame is 1.625"/ 41.27mm

***** "DBB" / WINCH MOTOR *****

12V ***(F & R)*** **(3 POST) WINCH MOTOR** ****3.4 HP****

"WMS" <u>PART NUMBER, W-26248</u>

REPLACES NUMBERS, 32453, A26248

(APPLICATIONS) SILVER EAGLE MANUFACTURING

Overall motor body length is 8"/ 203.2mm long
Raised alignment ring diameter is 3"/ 76.20mm
(.625 diameter shaft is 2.25"/ 57.15mm long W/A .187" bar key slot)

12V ***(BI-DIRECTIONAL) "DBB"*** **(3 POST)** ****6 HP****

SHAFT WINCH MOTOR WITH BAR KEY SLOT

"WMS" <u>PART NUMBER, W-7688</u>

REPLACES, W7688

HD WINCH MOTOR WITH .625"/15.87mm DIAMETER SHAFT

(OVERALL MOTOR BODY LENGTH IS 8" LONG)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(THE SHAFT LENGTH FROM DE FRAME IS 2"/ 50.80mm LONG)

FOR THE FOUR DRIVE END STUD BOLTS ORDER "WMS" PART NUMBER "MBJ/STUD"

*** " BUSHING VERSION " ****

12V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR
HAS .750" DIAMETER SHAFT WITH WOODRUFF KEY SLOT

"WMS" PART NUMBER, W-8933

REPLACES THE SAME NUMBERS LISTED FOR THE W-9143 BELOW

(APPLICATIONS) (RAMSEY WINCH) *3.4 HP*
(BRADEN INDUSTRIES, CAM INDUSTRIES, HICKEY EQUIPMENT)
(DESERT DYNAMICS, TULSA WINCH, RAMSEY & PIERCE WINCH)

(FOR DOUBLE BALL BEARING USE W-9143 OR W-9144)

(The raised ring diameter on the drive end is 3"/76.2mm)
(Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter)

*** VERY POPULAR ***
*** 12 VOLT WINCH MOTOR ***

Double Ball Bearing

12V *BI-DIRECTIONAL "DBB"* 3 POST WINCH MOTOR

"WMS" PART NUMBER, W-9143

REPLACES NUMBERS, 645041, MBJ-4201, W8933, MBJ-4403, MBJ-4405, MBJ-4407, W-9133, MBJ-4410, MBJ-4411, MBJ-4412, MBJ-4415, 458001

(APPLICATIONS) (RAMSEY WINCH) *3.4 HP*
(BRADEN INDUSTRIES, CAM INDUSTRIES, HICKEY EQUIPMENT)
(DESERT DYNAMICS, TULSA WINCH, RAMSEY & PIERCE WINCH)

(FOR A 4.8 HP MOTOR USE NUMBER W-9144)

(The raised ring diameter on the drive end is 3"/76.2mm)
(Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter)

12V *(BI-DIRECTIONAL)* (3 POST) HD/WINCH MOTOR

"WMS" PART NUMBER, W-7943

REPLACES NUMBERS, W7943, 99100, 99120, 99800
(APPLICATIONS) WINCH, MARINE WINDLESS ETC.
(THE SHAFT "TANG" IS 8mm WIDE AND 20mm LONG)
(The metric thru bolts are M6X1.0X6.375) *3.4 HP*

The field frame is 6"/ 152mm long / 0.500 longer than the original motor

USE'S 1/4 X 20 THRU BOLTS

* 12V * *(F & R) "DBB"* (2) POST MOTOR
(FORWARD & REVERSE) TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8841N

REPLACES, W8841N, F000MM0805, 458041, 458109
(APPLICATIONS) (3" RAMSEY WINCH MOTORS)
FOR REP 5000 & REP 6000 RAMSEY WINCHES
(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)
(Shaft diameter is .520"/ 13.20mm <> Flat to flat width is .380"/ 9.652mm wide)
SHAFT LENGTH FROM DRIVE END FRAME TO THE END OF SHAFT IS 1.60"

12V *(BI-DIRECTIONAL)* (4 POST) WINCH MOTOR

"AMETEK" PART NUMBER, MBJ6302

REPLACES NUMBERS, MBJ6201, 46-4157, MBJ-6201, MBJ-6302

(APPLICATIONS) (RAMSEY WINCH) *3.4 HP*

(BRADEN INDUSTRIES, CAM INDUSTRIES, HICKEY EQUIPMENT)

(DESERT DYNAMICS, TULSA WINCH, RAMSEY & PIERCE WINCH)

(FOR A 6 HP MOTOR USE W-7643 OR MUR6302)

(FOR A 3 POST AMETEK MOTOR USE NUMBER MBJ6303 or MBJ6304)

(The raised ring diameter on the drive end is 3"/76.2mm)

(Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter)

(The lower terminal post is grounded on the inside of the motor but it can be used to connect a ground cable for the best current flow connections)

12V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR

"AMETEK " PART NUMBER, MBJ6303

(Comes without DE mounting studs as shown)

REPLACES NUMBER, MBJ6303S, 46-4157, MBJ6201

THIS MOTOR IS THE SAME AS THE MBJ6302 ONLY WITHOUT THE LOWER TERMINAL POST *3.4 HP*

(APPLICATIONS) (RAMSEY WINCHES)

(The raised ring diameter on the drive end is 3"/76.2mm)

(Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter)

(Lower side of frame does "not" have a threaded hole for a ground cable bolt)

12V *(BI-DIRECTIONAL)* (3 POST) "DBB" WINCH MOTOR

"AMETEK " PART NUMBER, MBJ6304

(Comes "with" four DE mounting bolts as shown)

REPLACES NUMBERS, 46-4157, 458071, 458175,

W-8933, MBJ6201, MBJ6201, W-9143, MBJ6303 etc. *3.4 HP*

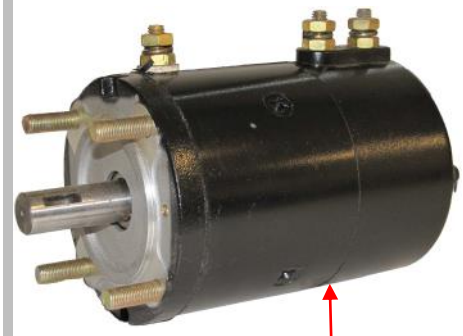
(APPLICATIONS) (RAMSEY WINCHES)

(The raised ring diameter on the drive end is 3"/76.2mm)

(Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter)

(Lower side of field frame has threaded hole for ground cable bolt)

Double Ball Bearing



12V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR
.750" DIAMETER SHAFT "DBB" *4.8 HP*
"WMS" PART NUMBER, W-9144

** 4.8 HP **

HEAVY DUTY REPLACEMENT FOR MOTOR NUMBERS,

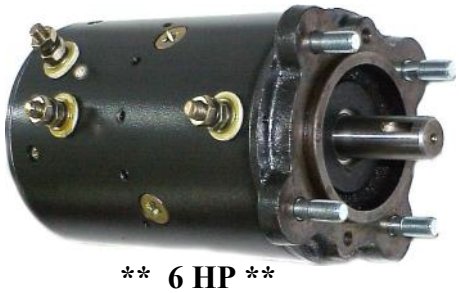
W-8933, W-9133, W-9143, 458108, W-6900, MUR-6202, 458001
645041, 79017, MRV-B-8, MBJ-4402, W9144, MBJ-4407 MBJ-4409
MBJ-4410, MBJ-4411, MBJ-4412, MBJ-4415, W-9133, W-9143 ETC.

(APPLICATIONS) (REPLACES RAMSEY PLATINUM WINCH MOTOR)
(BRADEN INDUSTRIES, CAM INDUSTRIES, HICKEY EQUIPMENT)
(DESERT DYNAMICS, TULSA WINCH, RAMSEY & PIERCE WINCH)

(OVERALL MOTOR BODY LENGTH IS 8" LONG)
(The raised ring diameter on the drive end is 3"/76.2mm)
(Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter)

12V *(BI-DIRECTIONAL)*(3 POST) "DBB" WINCH MOTOR *6 HP*
"WMS" PART NUMBER, W-7643

VERY POPULAR MOTOR



** 6 HP **

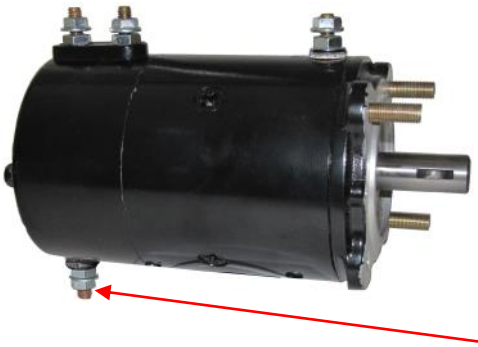
HEAVY DUTY REPLACEMENT FOR MOTOR NUMBERS,

W-9133, W-9143, 458108, MUR-6202, 458001, W-8933, 645041,
MRV-B-8, MBJ-6201, W7643, MBJ-4409, MBJ-4410, MBJ-4411, 46-4214
W-9144, MBJ-4412, MBJ-4415, 46-4157, MUR-6202, MUR6202, MUR6302

(APPLICATIONS) (REPLACES RAMSEY WINCH MOTOR)
(BRADEN INDUSTRIES, CAM INDUSTRIES, HICKEY EQUIPMENT)
(DESERT DYNAMICS, TULSA WINCH, RAMSEY & PIERCE WINCH)

(OVERALL MOTOR BODY LENGTH IS 8"/ 203.2mm) LONG)
(The raised ring diameter on the drive end is 3"/76.2mm)
(Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter)

12V *(BI-DIRECTIONAL)* (4 POST) WINCH MOTOR *4.5 HP*
"AMETEK" PART NUMBER, MUR6302



HEAVY DUTY REPLACEMENT FOR MOTOR NUMBERS,

645041, 458001, MBJ6201, MBJ6302, 46-4157, MUR-6202, MUR6202, MUR6302S

(APPLICATIONS) (REPLACES RAMSEY WINCH MOTOR)
(BRADEN INDUSTRIES, CAM INDUSTRIES, HICKEY EQUIPMENT)
(DESERT DYNAMICS, TULSA WINCH, RAMSEY & PIERCE WINCH)

(THIS IS A 4 POST PRESTOLITE VERSION OF THE "DBB" W-7643)
(MOTOR IS A 7.5"/ 190.5mm LONG HD VERSION OF THE MBJ6302)
(The lower terminal post is grounded on the inside of the motor but it can be used to connect a ground cable for the best current flow connections)
(The raised ring diameter on the drive end is 3"/76.2mm)
(Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter)

12V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR

"WMS" PART NUMBER, W-6633

REPLACES NUMBERS, W6633, 76090

(APPLICATIONS)

(RUGER EQUIP., CRANES, ETC.) *3.4 HP*

(Shaft is 2.05"/ 52.07mm long)
(Shaft length from the end of field frame is 1."/ 25.4mm)
(.750"/ 19.05mm Shaft diameter with woodruff key slot)

12V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR

"WMS" PART NUMBER, W-9188

REPLACES, W9188, W-9188D,

(APPLICATIONS)

(RAMSEY, MISC./ CRANES, ETC.)

(Shaft is 1.75"/44.45mm long)
(.750"/ 19.05mm Shaft diameter with woodruff key slot)
(Has a .125" diameter pin hole .200 back from the end of shaft)
(The drive end frame is for shipping only / remove to install motor)

** 4.8 HP **

12V *(BI-DIRECTIONAL)* (4 POST) WINCH MOTOR

"WMS" PART NUMBER, W-9134

REPLACES, W9134, "Ins / Grd" W-9143

(APPLICATIONS)

(RAMSEY WINCHES, RUGER EQUIP., CRANES, ETC.) *3.4 HP*

(Shaft is 1.75"/44.45mm long)
(.750"/ 19.05mm Shaft diameter with woodruff key slot)
(This is a "Insulated Ground" version of the W-9143)

Double Ball Bearing

12V *(BI-DIRECTIONAL)* (4 POST) WINCH MOTOR

"WMS" PART NUMBER, W-9340

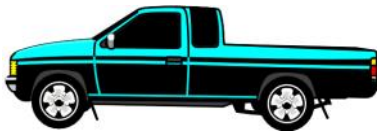
REPLACES, W9340,

(APPLICATIONS)

(Bow thruster motor for boats) *4.8 HP*

(Shaft length is 2.75"/ 69.85mm long)
(.625"/ 15.87mm Shaft diameter with bar key slot)
(This is a "Insulated Ground" motor)

Double Ball Bearing



12V *(BI-DIRECTIONAL)*(3 POST) HD WINCH MOTOR

"WMS" PART NUMBER, W-7938

REPLACES, W-7927, W-7937, 9130450073, 458072, 458073

(APPLICATIONS) RAMSEY PRO 5000 & PRO 6000

(RAMSEY WINCH'S) <> PRO 8000 ***3.4 HP***

(THIS MOTOR BODY LENGTH IS 8.750 WHICH IS 1.25" LONGER THAN THE ORIGINAL WINCH MOTOR)

(OUR CUSTOMERS SAY THIS MOTOR FITS IN PLACE OF THE SHORT CASE MOTOR WITH NO PROBLEMS)

(Shaft flat to flat width is .375"/ 9.54mm)

12V (F & R) WINCH MOTOR ***3.1 HP***

"AMETEK" PART NUMBER, MUY6301

Shaft length is 1.55"/ 37.47mm <> Shaft diameter is 0.520" / 13.208mm The end of shaft has a alignment hole)

(Flats on each side) flat to flat width is .375"/ 9.54mm)

REPLACES NUMBERS,

681217, 251283, W-8845N, MUE6214, 18402033, MUY6301S

(APPLICATIONS) (RAMSEY WINCHES, REP8000X)

YOU MUST USE THE DRIVE END FRAME FROM THE OLD MOTOR

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR

(Ramsey replacement for the P/M REP-8000 & REP-8000X)

"WMS" PART NUMBER, W-8845N

REPLACES , W8845N, 458045, W8845, 681217, MUE6214, MUY6301

(APPLICATIONS) (RAMSEY INDUSTRIES, RAMSEY WINCH'S)

(*Note* This new Ramsey replacement requires changing the wiring connections from a (2) cable setup to a (3) cable setup)

(THIS MOTOR HAS A CORE CHARGE FOR DE FRAME)

*** 4.8" PERMANENT MAGNET WINCH MOTOR ***

***12V* FOR RAMSEY 4.8" (PM)**

"WMS" PART NUMBER, W-8845RM

REPLACES, W8845RM, 458045

(APPLICATIONS) (RAMSEY WINCH'S)

(REP 8000, REP 8000X) (1.8 HP)

(PM IS AVAILABLE AS A REMAN ONLY WITH CORE CHARGE)

(Shaft is 1"/25.4mm long & flat to flat width is .375"/ 9.54mm)

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR

5 HP (Armature shaft has a flat on each side, 0.380 width)

"WMS" PART NUMBER, W-7639

REPLACES, MMW6301, W7639, MMW-6301

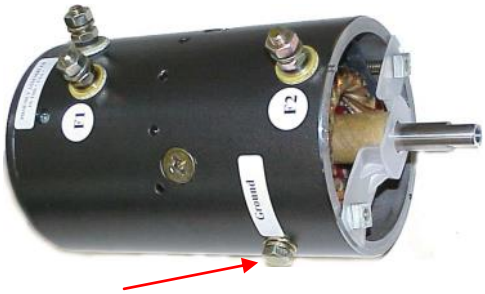
(APPLICATIONS) (RAMSEY WINCH'S)

THE ARMATURE SHAFT DIAMETER IS 0.520"/ 13.20mm

THE SHAFT LENGTH FROM FIELD FRAME IS 1.9"/ 48.26mm

THE ARMATURE SHAFT HAS A 0.250"/.635mm) HOLE IN THE END

FOR A AMETEK/PRESTOLITE MOTOR USE NUMBER MMW6301



Ground cable connection

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR

5 HP (Armature shaft has a flat on each side, 0.380 width)

"AMETEK" PART NUMBER, MMW6301

REPLACES, MMW6301S, W7639, MMW-6301

MMW6201S, MMW6201, 458118, 458135,

(APPLICATIONS) (RAMSEY WINCH'S)

THE ARMATURE SHAFT DIAMETER IS 0.520"/ 13.20mm

THE SHAFT LENGTH FROM FIELD FRAME IS 1.9"/ 48.26mm

THE ARMATURE SHAFT HAS A 0.250"/.635mm) HOLE IN THE END

*** BALL BEARING CE ***

Ground cable connection

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR

5 HP (Armature shaft has a flat on each side, 0.380 width)

"WMS" PART NUMBER, W-7640

REPLACES, MBJ6200, W7640, 682164, 458114

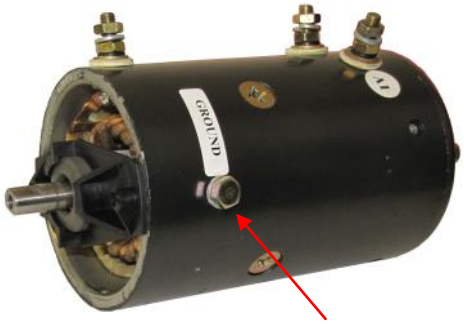
(APPLICATIONS) (RAMSEY WINCH'S, PLATINUM 9000)

THE ARMATURE SHAFT DIAMETER IS 0.520"/ 13.20mm

THE SHAFT LENGTH FROM FIELD FRAME IS 1.562"/ 39.67mm

THE ARMATURE SHAFT HAS A 0.250"/.635mm) HOLE IN THE END

FOR A AMETEK/PRESTOLITE MOTOR USE NUMBER MUR6303S



Ground cable connection

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR

5 HP (Armature shaft has a flat on each side, 0.380 width)

"AMETEK" PART NUMBER, MUR6303S

REPLACES, 46-4116, MUQ6201, MUQ-6203A, 458103, 458107

MBJ6200, MUQ-6201, MUR6201, W7640, 682164, 458114

(APPLICATIONS) (RAMSEY PLATINUM 9000 WINCH'S)

THE ARMATURE SHAFT DIAMETER IS 0.520"/ 13.20mm

THE SHAFT LENGTH FROM FIELD FRAME IS 1.562"/ 39.67mm

THE ARMATURE SHAFT HAS A 0.250"/.635mm HOLE IN THE END

THIS IS A AMETEK/PRESTOLITE VERSION OF THE W-7640

*** BALL BEARING CE ***

Ground cable connection

***12V* *(BI-DIRECTIONAL)*WINCH MOTOR**

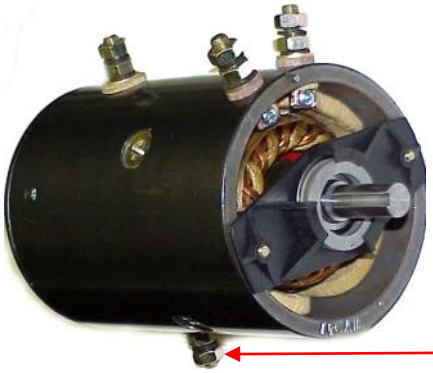
(SPECIAL 3 POST "INSULATED GROUND") **3.2 HP**

"WMS" PART NUMBER, W-7928

REPLACES NUMBERS, 88393, 14200409, B-8393, 9130450078

(APPLICATIONS) (LUMA WINCH MOTOR)

(.435"/ 11.04mm diameter shaft with 0.156"/ 3.96mm bar key slot)



12V* *(BI-DIRECTIONAL)* (4 POST) WINCH MOTOR WITH "INSULATED" GROUND **3.4 HP

"WMS" PART NUMBER, W-7941

REPLACES NUMBERS, 9130450054, 9-130-450-054

W7941, B-3167, B3167, 83167, 130450054

(APPLICATIONS) LEWMAR MARINE WINDLESS

(THE SHAFT DIA. IS 0.550"/ 13.97mm) & HAS A .187" BAR KEY SLOT)

(The lower terminal post is the "Insulated Ground")

OVERLOAD PROTECTION

***12V* *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR WITH "INSULATED" GROUND AND "OLP"**

"WMS" PART NUMBER, IM-0178

REPLACES NUMBERS, 60000189

W7942, 11216402, AMJ4789, IM0178, 11.216.402, AMJ-4789

(APPLICATIONS) (NI VG, LEWMAR MARINE WINDLESS)

(THE SHAFT DIA. IS 0.550"/ 13.97mm) & HAS A .187" BAR KEY SLOT)

(For 24V use number IM-0226)

OVERLOAD PROTECTION

12V* *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR WITH "INSULATED" GROUND AND "OLP" **2.2 HP

"WMS" PART NUMBER, W-7942

REPLACES NUMBERS, 60000189

W7942, 11216402, AMJ4789, IM0178, 11.216.402, AMJ-4789

(APPLICATIONS) (NI VG, LEWMAR MARINE WINDLESS)

(THE SHAFT DIA. IS 0.550"/ 13.97mm) & HAS A .187" BAR KEY SLOT)

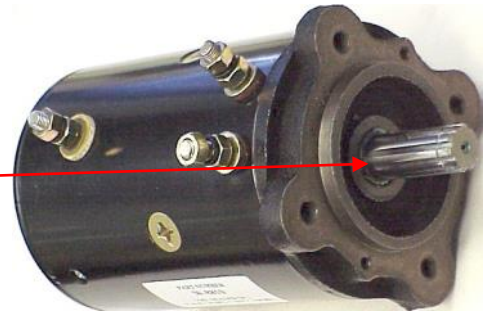
(This is a 12V version of a W-7945)

12V (*BI-DIRECTIONAL*) (3 POST) WINCH MOTOR
WITH (10) TEN SPLINE SHAFT WITH SHAFT SEAL

"WMS" PART NUMBER, W-8810

REPLACES NUMBERS,
W8810, 46-979, 46-2288, MBJ-4301, MBJ4408 *3.4 HP*

(APPLICATIONS) (NARCO SALES & MANUFACTURING)



12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR
HAS .625" DIAMETER SHAFT WITH WOODRUFF KEY SLOT

"WMS" PART NUMBER, W-8827

SPECIAL DE & THRU BOLTS* *3.4 HP*

(APPLICATIONS) (RUGER EQUIP., ETC.)

(THIS MOTOR IS THE SAME AS NUMBER W-8927 "EXCEPT")
THIS MOTOR HAS 5/16 X 18 THRU BOLTS & THE ROUND
FLANGE RING ON THE DE HSG. IS CUT DOWN SHORTER)

12V (*BI-DIRECTIONAL*) (3 POST) WINCH MOTOR
HAS A .625" DIAMETER SHAFT WITH WOODRUFF KEY SLOT

"WMS" PART NUMBER, W-8913

REPLACES NUMBERS,
W8913, 9233171, 92-33171, 46-2498, MBJ-4413

(APPLICATIONS) (SUPERWINCH INC.) *3.4 HP*

12V *(BI-DIRECTIONAL)* (3 POST) MOTOR W/INS/GRD

"WMS" PART NUMBER, W-7948

REPLACES NUMBERS,
W7948, 13343

(APPLICATIONS)
WINCH, MARINE WINDLESS ETC.

(SHAFT DIAMETER IS 0.433 AND HAS A WOODRUFF KEY SLOT)
(Need customers old motor for the drive end frame)

(BI-DIRECTIONAL) (2 POST) (BB) WINCH MOTOR

HAS .750"/ 19.05mm SHAFT WITH WOODRUFF KEY SLOT

12V **"WMS" PART NUMBER, W-8925**

REPLACES, W8925, M-3900, 46-436, 6026, MDE-4001

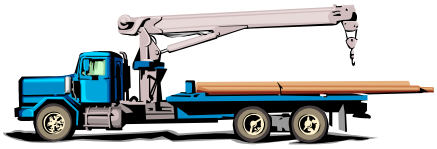
(APPLICATIONS) (SKYHOOK, DOUGLAS MOTORS)

(GRAND MFG., UTILITY BODY CO., WILSON TRAILERS)

THIS MOTOR HAS A (SLOWER & SOFT) RESPONSE FOR MOVEMENT OF BOOM ARM ON SIGN TRUCKS.

(FOR A DOUBLE BALL BEARING USE "WMS" # W-8925D)

(Shaft is 1.75"/ 44.45mm long <> Raised ring on DE is 3"/ 76.2mm)



Double Ball Bearing

(BI-DIRECTIONAL) (2 POST) "DBB" WINCH MOTOR

HAS .750"/ 19.05mm SHAFT WITH WOODRUFF KEY SLOT

12V **"WMS" PART NUMBER, W-8925D**

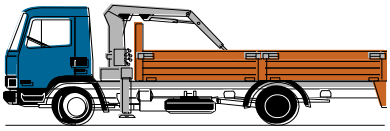
REPLACES, W8925D, M-3900, 46-436, 6026, MDE-4001

(APPLICATIONS) (SKYHOOK, DOUGLAS MOTORS)

(GRAND MFG., UTILITY BODY CO., WILSON TRAILERS)

MOTOR HAS A (SLOWER) RESPONSE FOR MOVEMENT OF BOOM ARM

(Shaft is 1.75"/ 44.45mm long <> Raised ring on DE is 3"/ 76.2mm)



(BI-DIRECTIONAL) (2 POST) "DBB" WINCH MOTOR

HAS .750"/ 19.05mm SHAFT WITH WOODRUFF KEY SLOT

12V **"WMS" PART NUMBER, W-9925**

THIS MOTOR HAS MORE POWER AND "QUICK" RESPONSE THAN THE ABOVE MOTOR NUMBER W-8925.

(SHOULD "NOT" BE USED FOR A SIGN TRUCK BOOM)

(QUICKER AND STRONGER RESPONSE THAN W-8925)

(Shaft is 1.75"/ 44.45mm long <> Raised ring on DE is 3"/ 76.2mm)

12V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR

(Shaft is 1.75"/ 44.45mm long <> Raised ring on DE is 3"/ 76.2mm)

"WMS" PART NUMBER, W-8825

REPLACES, W8825, 99099, 99099-99

(APPLICATIONS) (SKYHOOK, DOUGLAS MOTORS)

(GRAND MFG., UTILITY BODY CO., WILSON TRAILERS)

THIS MOTOR HAS A (SLOWER & SOFTER) RESPONSE FOR MOVEMENT OF BOOM ARM ON SIGN TRUCKS.

12V *(BI-DIRECTIONAL)* WINCH MOTOR W/ 3 INLINE POSTS

MOTOR HAS A SHORT 0.750 LENGTH SHAFT WITH HOLE

"WMS" PART NUMBER, W-6333

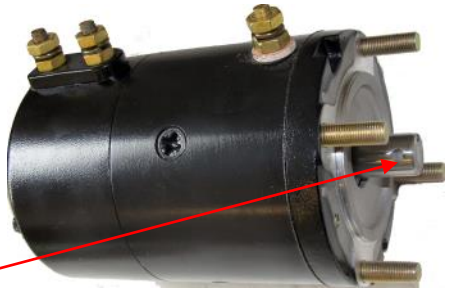
REPLACES, W-8833, W-9233, MBJ (3.4 HP)

(APPLICATIONS) (RAWSON-KOENIG IRON, KING WINCH)

(THE RAISED RING DIAMETER ON DRIVE END IS 3")

(Shaft is .750 dia. w/a .250"/ 6.35mm pin hole & .875"/ 22.22mm long)

DOUBLE BALL BEARING



Motor body length is 6.50"

12V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR

HAS SHORT LENGTH SHAFT WITH HOLE

"WMS" PART NUMBER, W-9233

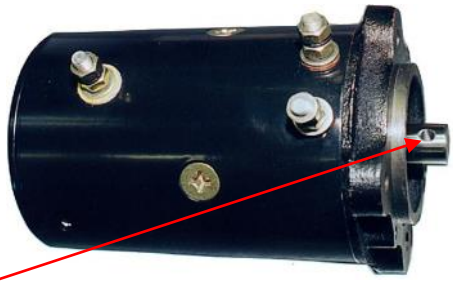
REPLACES, W-8833 *3.4 HP*

(APPLICATIONS) (RAWSON-KOENIG IRON, KING WINCH)

(THE RAISED RING DIAMETER ON DRIVE END IS 3")

(Shaft is .750 dia. w/a .250"/ 6.35mm pin hole & .875"/ 22.22mm long)

DOUBLE BALL BEARING



Motor body length is 7"

** HD ** DBB ** 4.8 HP **

12V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR

HAS SHORT LENGTH SHAFT WITH HOLE

"WMS" PART NUMBER, W-7633

REPLACES NUMBERS,

W7633, W-8833, M3300K, M-3300KBB, M-3300-KBB, W-9233

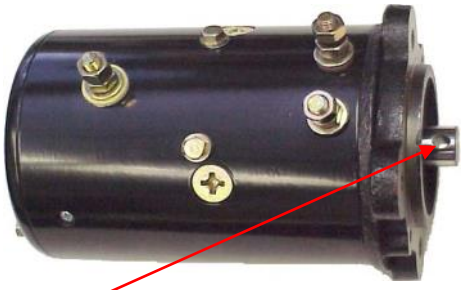
(APPLICATIONS) (RAWSON-KOENIG IRON, KING WINCH)

(THE RAISED RING DIAMETER ON DRIVE END IS 3")

(OVERALL MOTOR BODY LENGTH IS 8" LONG)

(Shaft is .750 dia. w/a .250"/ 6.35mm pin hole & .875"/ 22.22mm long)

DOUBLE BALL BEARING



Motor body length is 8"

12V *(BI-DIRECTIONAL) HD/DBB* *6 HP*

3 POST WINCH MOTOR, .750" DIAMETER SHAFT

(Shaft is .750"/19.05mm dia. w/a .250"/ 6.35mm hole & .875"/ 22.22mm long)

"WMS" PART NUMBER, W-7733

REPLACES NUMBERS, W-8833, M3300K, W7733, W-9233, W-6333, W-7633

(APPLICATIONS) (RAWSON-KOENIG IRON, KING WINCH)

DOUBLE BALL BEARING

Motor body length is 8"

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR

WITH A 3/8" ALLEN TYPE SHAFT *3.4 HP*

"WMS" PART NUMBER, W-9137

(REPLACES, MRV-B-10)

(APPLICATIONS) ("HUMMER" WINCH MOTOR & OTHERS)

(THE ALLEN AREA LENGTH OF THE SHAFT IS 1.250"/31.75mm LONG)

***NOTE** CUSTOMER MUST SEND IN THEIR OLD MOTOR SO WE CAN GET THE PROPER SHAFT SPECIFICATIONS.*

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR

WITH A 3/8" ALLEN TYPE SHAFT *3.4 HP*

"WMS" PART NUMBER, W-9138

(APPLICATIONS) (TENSEN CO. WINCH MOTOR & OTHERS)

(THE ALLEN AREA LENGTH OF THE SHAFT IS 1 & 15/32" LONG)

***NOTE** CUSTOMER MUST SEND IN THEIR OLD MOTOR SO WE CAN GET THE PROPER SHAFT SPECIFICATIONS.*

12V *(BI-DIRECTIONAL)* 3 POST WINCH MOTOR *3.4 HP*

WITH A .520"/ 13.20mm DIAMETER SHAFT WITH TWO FLATS

"WMS" PART NUMBER, W-7939

REPLACES NUMBERS, W7938, W7939, 450872, 450873, 9130450071

(APPLICATIONS)

(RAMSEY WINCH MOTOR, RAMSEY PRO 9000)

(Shaft length from DE frame is 1.875"/ 47.62mm)

(Flat area is .380"/ 9.65mm) wide)

Raised alignment ring diameter is 3"/ 76.20mm

12V "CW / HD" (1) POST 6HP MOTOR

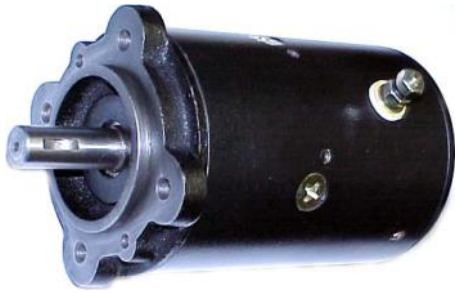
WITH THE THRU BOLTS AT THE 3 & 9 POSITION.

(.750"/ 44.45mm DIAMETER SHAFT)

"WMS" PART NUMBER, W-7680

(APPLICATIONS) (HOSE REEL MOTORS, ETC.)

(OVERALL MOTOR BODY LENGTH IS 8" LONG)



12V "CW" *DBB* (1) POST MOTOR

(.750"/ 44.45mm DIAMETER SHAFT)

"WMS" PART NUMBER, W-9114

REPLACES, (4660, M4660, 123-015, 123-105)

(APPLICATIONS)

(PORTABLE SAWMILL DEBARKER MOTOR)

***12V* "CCW" (1) POST (4) FIELD WINCH MOTOR**
WITH THE THRU BOLTS AT THE 5 & 11 POSITION.
(DRIVE END OF SHAFT HAS A (14) TOOTH GEAR)
(CE SHAFT HAS A HOLE FOR A ROLL PIN)

"WMS" PART NUMBER, W-8703

REPLACES, 160-801, 46-3650, MHT-6101
W8703, MHT-7001, MHT-7101, AND MHT-7101S

(APPLICATIONS) (BELLEVIEW AND EARLY WARN WINCHES)

THIS MOTOR IS SHIPPED WITH A CE PLATE WITH A HOLE IN THE TOP OF THE BUSHING HUB FOR THE SHAFT TO COME THROUGH, YOU MUST USE YOUR ORIGINAL CE BRAKE ASSEMBLY IF NEEDED.

***12V* "CCW" (1) POST (2) FIELD WINCH MOTOR**
WITH THE THRU BOLTS AT THE 5 & 11 POSITION.
(DRIVE END OF SHAFT HAS A (14) TOOTH GEAR)
(CE SHAFT HAS A HOLE FOR A ROLL PIN)

"WMS" PART NUMBER, W-8903

REPLACES, 160-801, 46-3650, MHT-6101
W8903, MHT-7001, MHT-7101, AND MHT-7101S

(APPLICATIONS) (BELLEVIEW AND EARLY WARN WINCHES)

THIS MOTOR IS SHIPPED WITH A CE PLATE WITH A HOLE IN THE TOP OF THE BUSHING HUB FOR THE SHAFT TO COME THROUGH, YOU MUST USE YOUR ORIGINAL CE BRAKE ASSEMBLY IF NEEDED.

***12V* *(BI-DIRECTIONAL)* 3 POST "HD" WINCH MOTOR**

This is a (3) terminal post F & R version of the W-8903 *2.5 HP*

"WMS" PART NUMBER, W-8905

(APPLICATIONS)
(BELLEVIEW AND EARLY WARN WINCHES)

***12V* "CCW" (1) POST WINCH MOTOR,**

.625"/ 15.87mm Diameter shaft with a woodruff key slot.

"WMS" PART NUMBER, W-8967

REPLACES, W8967, 46-2525, MHN-4007, MHN-4007A

(APPLICATIONS) (POWER WINCH INC.)

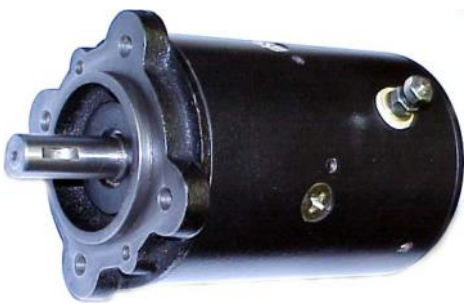
***12V* "CCW" (DBB) MOTOR**

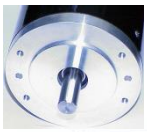
"WMS" PART NUMBER, W-9116

REPLACES, W9116, AES-27, MBJ-6002, MBJ-6002S, MBJ-6002A

(APPLICATIONS)

(OIL WELL COMPRESSOR STARTING MOTOR, ETC.)
(.750"/ 44.45mm DIAMETER SHAFT)





56C FRAME

24V *(BI-DIRECTIONAL)* (3 POST) *(DBB)* WINCH

MOTOR, *HAS .625" DIA. SHAFT WITH .187" BAR KEY SLOT AT THE COM END AND THE DRIVE END OF MOTOR.*

"WMS" PART NUMBER, W-6320

REPLACES, (MMD TYPES)

(HAS A 56C DE FRAME WITH 4 THREADED HOLES)

(APPLICATIONS) (CRANES, LIFT BOOM ARMS, ETC.)

(COM END FRAME HAS THREADED HOLES FOR BRAKE)

(LOWER SIDE OF FIELD/CASE HAS (3) 3/8X24 THREADED MT/HOLES)

24V *(BI-DIRECTIONAL)* (3 POST) *(DBB)* WINCH

MOTOR, *HAS .625" DIA. SHAFT WITH .187" BAR KEY SLOT AT THE COM END AND THE DRIVE END OF MOTOR.*

"WMS" PART NUMBER, W-6322

REPLACES NUMBERS, (MMD TYPES)

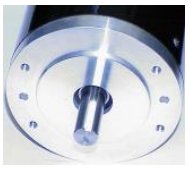
(APPLICATIONS) (CRANES, LIFT BOOM ARMS, ETC.)

(SHAFT LENGTH IS 1.125"/ 28.57mm FROM COM END)

(SHAFT LENGTH IS 2.125"/ 53.97mm FROM DRIVE END)

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(LOWER SIDE OF FIELD/CASE HAS (3) 3/8X24 THREADED MT/HOLES)



CE FRAME <> DE FRAME

56C FRAME

12V *(BI-DIRECTIONAL)* (3 POST) *(DBB)* WINCH

MOTOR, *HAS .625" DIA. SHAFT WITH .187" BAR KEY SLOT AT THE COM END AND THE DRIVE END OF MOTOR.*

"WMS" PART NUMBER, W-6332

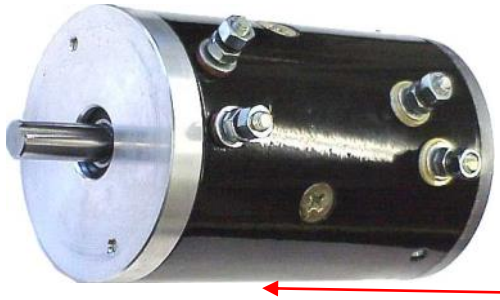
REPLACES, (MMD TYPES) **3.4 HP**

(HAS A 56C DE FRAME WITH 4 THREADED HOLES)

(APPLICATIONS) (CRANES, LIFT BOOM ARMS, ETC.)

(COM END FRAME HAS THREADED HOLES FOR BRAKE)

(LOWER SIDE OF FIELD/CASE HAS (3) 3/8X24 THREADED MT/HOLES)



24V *(BI-DIRECTIONAL)* (4 POST) *(DBB)* WINCH

MOTOR, *HAS .625" DIA. SHAFT WITH .187" BAR KEY SLOT*

"WMS" PART NUMBER, W-6424

(APPLICATIONS)

(CRANES, LIFT BOOM ARMS, ETC.)

"INSULATED" GROUND VERSION OF NUMBER W-6324

(LOWER SIDE OF FIELD/CASE HAS (3) 3/8X24 THREADED MT/HOLES)

12V (3 POST) F & R "DBB" WINCH MOTOR

*HAS .625" DIA. SHAFT WITH .187" BAR KEY SLOT. *3.4 HP**

"WMS" PART NUMBER, W-6314

(APPLICATIONS) (CRANES, LIFT BOOM ARMS, ETC.)

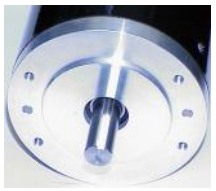
(COM END FRAME HAS THREADED HOLES FOR BRAKE)

(SHAFT LENGTH IS 1.125"/ 28.57mm FROM COM END)

(SHAFT LENGTH IS 2.125"/ 53.97mm FROM DRIVE END)

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(LOWER SIDE OF FIELD/CASE HAS (3) 3/8X24 THREADED MT/HOLES)



COMM FRAME

24V (BI-DIRECTIONAL) "DBB" (3 POST) WINCH MOTOR

HAS .625" DIA. SHAFT WITH .187" BAR KEY SLOT

"WMS" PART NUMBER, W-6324

REPLACES NUMBERS, (MMD TYPES)

(APPLICATIONS) (CRANES, LIFT BOOM ARMS, ETC.)

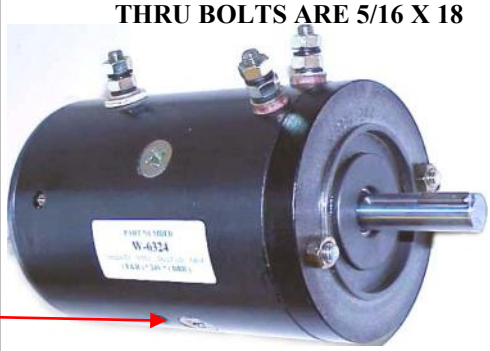
*(FOR A *12V* VERSION USE "WMS" NUMBER W-8842)*

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm

(LOWER SIDE OF FIELD/CASE HAS (3) 3/8X24 THREADED MT/HOLES)

(For a motor complete with the mounting base use number W-6326)

THRU BOLTS ARE 5/16 X 18



Shaft is 2"/ 50.8mm long from DE

24V (BI-DIRECTIONAL) "DBB" (3 POST) WINCH MOTOR

HAS .750"/ 19.05mm DIA./SHAFT WITH WOODRUFF KEY SLOT

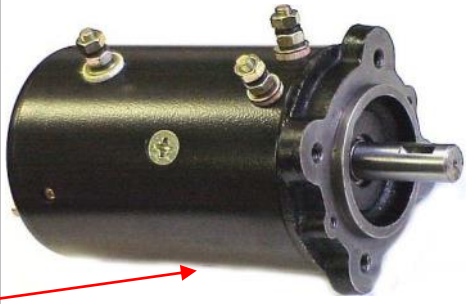
"WMS" PART NUMBER, W-8256

(APPLICATIONS) (MISC. CRANES)

(SLOWER AND SOFTER RESPONSE THAN W-8856)

(Shaft is 1.75"/ 69.85mm long <> Raised ring on DE is 3"/ 76.2mm)

(LOWER SIDE OF FIELD/CASE HAS (3) 3/8X24 THREADED MT/HOLES)



24V (BI-DIRECTIONAL) "DBB" (3 POST) WINCH MOTOR

HAS .750"/ 19.05mm DIA./SHAFT WITH WOODRUFF KEY SLOT

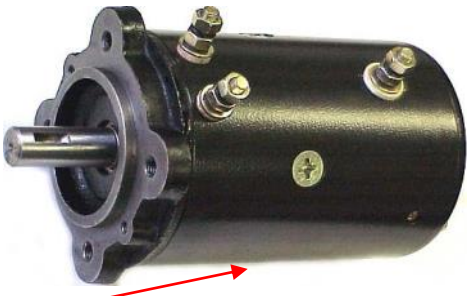
"WMS" PART NUMBER, W-8856

(APPLICATIONS) (MISC. CRANES)

(QUICKER AND STRONGER RESPONSE THAN W-8256)

(Shaft is 1.75"/ 69.85mm long <> Raised ring on DE is 3"/ 76.2mm)

(LOWER SIDE OF FIELD/CASE HAS (3) 3/8X24 THREADED MT/HOLES)



24V (*BI-DIRECTIONAL*) (3 POST) WINCH MOTOR

HAS A .625" SHAFT WITH WOODRUFF KEY SLOT.

"WMS" PART NUMBER, W-8915

REPLACES, W8915, 46-2508, MMD-4403,

(APPLICATIONS) (SUPER WINCH INC.)

*** 20 SPLINE SHAFT ***

24V *(BI-DIRECTIONAL)* (3 POST) "DBB" WINCH MOTOR WITH *" TWENTY SPLINE SHAFT "*

"WMS" PART NUMBER, W-8921D

REPLACES NUMBERS, W8921, M-1902, MRJ-2056, 26712, 31682, 39972, 15833, 26651, 39983, 21131, 21258,

(APPLICATIONS) MODELS, MX12085, M12000, MX10000, M10000, M8274, (SUPERWINCH HUSKY SERIES)

(ARCO MARINE, WARN INDUSTRIES, WARN WINCH'S)

(FOR A MOTOR WITH "OVERLOAD PROTECTION" USE NUMBER W-5621)

.750" DIAMETER SHAFT

24V (BI-DIRECTIONAL)(2 POST) "DBB" WINCH MOTOR,

(Shaft is 1.75"/ 44.45mm long <> Raised ring on DE is 3"/ 76.2mm)

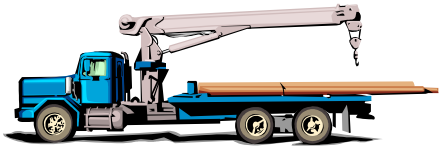
"WMS" PART NUMBER, W-8926D

REPLACES, W8926D, MDE-4001-24V

(APPLICATIONS) (SKYHOOK, DOUGLAS MOTORS)

(GRAND MFG., UTILITY BODY CO., WILSON TRAILERS)

(SLOWER AND SOFTER RESPONSE)



.750" DIAMETER SHAFT

24V (BI-DIRECTIONAL)(2 POST) "DBB" WINCH MOTOR,

(Shaft is 2.75"/ 69.85mm long <> Raised ring on DE is 3"/ 76.2mm)

"WMS" PART NUMBER, W-9926

REPLACES, W9926, M-3900-24V, MDE-4001-24V

(APPLICATIONS) (SKYHOOK, DOUGLAS MOTORS)

(GRAND MFG., UTILITY BODY CO., WILSON TRAILERS)

(QUICKER AND STRONGER RESPONSE)

(DO NOT USE FOR SIGN TRUCK BOOMS)

24V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR
WITH THE *" TWENTY SPLINE SHAFT "* & *"OLP"*
"WMS" PART NUMBER, W-5621

*(*24V* VERSION OF NUMBER W-5623)*

REPLACES NUMBERS,
W5621, 15617, 15833, 21258, 26651

(APPLICATIONS) (SMITH INDUSTRIES, ARCO MARINE)
(WARN INDUSTRIES, WARN WINCH'S, SUPERWINCH)

(2.5 HP) (WITH OVER LOAD PROTECTION)

*** 20 SPLINE SHAFT ***

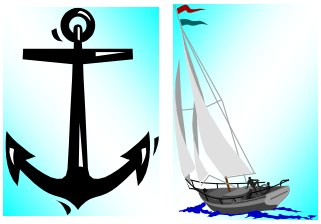
WITH OVERLOAD PROTECTION

24V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR
(20) SPLINE ARMATURE SHAFT (4.8 HORSEPOWER)
"WMS" PART NUMBER, W-7621
THIS IS A "HD" 24 VOLT VERSION OF
THE MOTOR NUMBERS LISTED BELOW

REPLACES NUMBERS, W7621, M-1902, 11.212.450, MBV-C3
MRJ-2056, 26712, 31682, 39972, 15833, 26651, 39983, 21131, 21258,

(APPLICATIONS) MODELS, MX12085, M12000, MX10000,
M10000, M8274, (SUPERWINCH HUSKY SERIES)
(ARCO MARINE, WARN INDUSTRIES, WARN WINCH'S)

(OVERALL MOTOR BODY LENGTH IS 7")



ALSO FOR MANY
MARINE APPLICATIONS

WITH 20 SPLINE SHAFT

24V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR
"WMS" PART NUMBER, W-7944
REPLACES, W7944, W-7938-24V AND 458073 IN 24V

(APPLICATIONS)
(RAMSEY WINCH'S) <> PRO 8000 (3.5 HP)
(THIS IS A "HD" VERSION OF THE "PRO 8000" MOTOR)
(THE FIELD CASE OF THIS MOTOR IS 1.25"/ 31.75mm LONGER
THAN THE STANDARD PRO 8000 MOTOR FIELD CASE)
(OUR CUSTOMERS SAY THIS MOTOR FITS IN PLACE
OF THE SHORT CASE MOTOR WITH NO PROBLEMS)
(OVERALL MOTOR BODY LENGTH IS 7" LONG)

FOR THE FOUR DRIVE END
STUD BOLTS ORDER "WMS"
PART NUMBER "MBJ/STUD"

*** 5 HP ***

24V *(BI-DIRECTIONAL) DBB* (3 POST) WINCH MOTOR

HAS FULL LENGTH 3/16 BAR KEY SLOT IN THE SHAFT

(Shaft diameter is .669"/ 16.99mm for a 6-203 ball bearing)

"WMS" PART NUMBER, W-7657

THIS IS A "HD" VERSION OF THE PART NUMBERS LISTED BELOW

REPLACES, W7657, MRVC2, MMD4402, 8803, MMD-4402, MRV-C-2

(APPLICATIONS) (WARN INDUSTRIES, WARN WINCH'S)

(THE FIELD FRAME IS 7" LONG)

24V *(BI-DIRECTIONAL) DBB* (3 POST) WINCH MOTOR

.750"/19.05mm DIAMETER SHAFT **5 HP**

"WMS" PART NUMBER, W-7656

THIS IS A "HD" VERSION OF THE W-9156

REPLACES, W7656, M3300-24V, MMD4001, MMD4401, 30214, 458002 458005 46-2289, 46-3523, PS534-24V, M-3300-24V, PR2-0056-24V, MMD-4001, & MMD-4401 .

(APPLICATIONS) (REPLACES RAMSEY PLATINUM WINCH MOTOR)
(BRADEN INDUSTRIES, CAM INDUSTRIES, HICKEY EQUIPMENT)
(DESERT DYNAMICS, TULSA WINCH, RAMSEY & PIERCE WINCH)

(OVERALL MOTOR BODY LENGTH IS 8" LONG)

24V *(BI-DIRECTIONAL) DBB* (3 POST) WINCH MOTOR

.750"/ 19.05mm DIAMETER SHAFT (6 HORSEPOWER)

"WMS" PART NUMBER, W-7658

THIS IS A "HD" VERSION OF THE NUMBERS LISTED BELOW

REPLACES NUMBERS, M3300-24V, MMD4001, MMD4401, 30214, 458002 458005, 46-2289, 46-3523, PS534-24V, M-3300-24V, PR2-0056-24V W7658, W-8956, W-9156, W-7656, MMD-4001, MMD-4401,

(APPLICATIONS) (REPLACES RAMSEY PLATINUM WINCH MOTOR)
(BRADEN INDUSTRIES, CAM INDUSTRIES, HICKEY EQUIPMENT)
(DESERT DYNAMICS, TULSA WINCH, RAMSEY & PIERCE WINCH)

(OVERALL MOTOR BODY LENGTH IS 8" LONG)

*24V *BI-DIRECTIONAL** DBB (3 POST) WINCH MOTOR

.750"/ 19.05mm DIA. SHAFT WITH WOODRUFF KEY SLOT.

"WMS" PART NUMBER, W-9156

REPLACES, M3300-24V, MMD4001, MMD4401, 30214, 458002, 458005, 46-2289 46-3523, PS534-24V, M-3300-24V, PR2-0056-24V, MMD-4001, & MMD-4401 .

(APPLICATIONS) (PIERCE, VIME, RAMSEY WINCHES ETC.) **4.5 HP**

(THE SHAFT LENGTH FROM DE FRAME IS 1.750"/ 44.45mm) LONG)

(FOR A 5 HP MOTOR ORDER NUMBER W-7656)

24V *BI-DIRECTIONAL*

(FORWARD & REVERSE) (4 POST) MOTOR
WITH INLINE TERMINAL POSTS

"WMS" PART NUMBER, W-7724

(APPLICATIONS) (PIERCE, VIME, RAMSEY WINCHES ETC.)

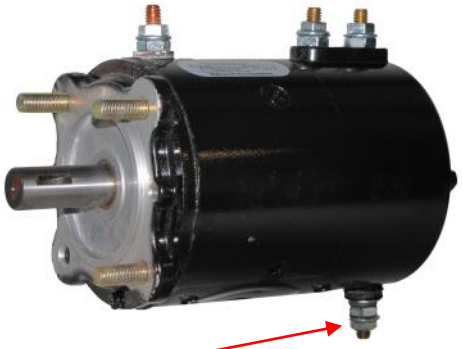
REPLACES, MMD4001, MMD4401, 30214, 458002, W7724
46-3523, PS534-24V, MUX6302, MMD-4001, & MMD-4401, 458005

(APPLICATIONS) (PIERCE, VIME AND RAMSEY WINCHES)

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter

(The lower terminal is for a ground cable connection)

(4.5 HP @ MAX/OUTPUT <> 1400 / 4000 RPM)



24V *"DBB" BI-DIRECTIONAL*
(FORWARD & REVERSE) (4) POST MOTOR **4.5 HP**
WITH A .750" DIA. SHAFT WITH WOODRUFF KEY SLOT

"WMS" PART NUMBER, W-7724D

REPLACES, MMD4001, MMD4401, 30214, 458002, MUX6302
46-3523, MUX6304, MUX-6302, MMD-4001, & MMD-4401, 458005
(APPLICATIONS)
(PIERCE, VIME AND RAMSEY WINCHES)

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter

(The lower terminal post is for a ground cable connection)

(4.5 HP @ MAX/OUTPUT <> 1400 / 4000 RPM)

DOUBLE BALL BEARING

24V *BI-DIRECTIONAL*
(FORWARD & REVERSE) (4) POST MOTOR **4.5 HP**
WITH A .750" DIA. SHAFT WITH WOODRUFF KEY SLOT

"AMETEK" PART NUMBER, MUX6302

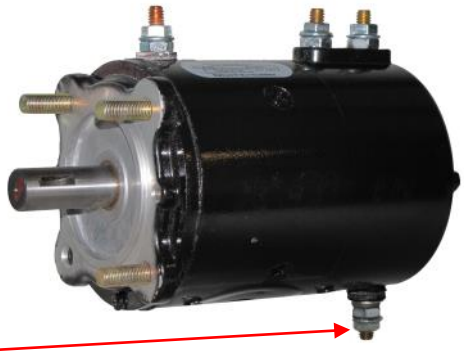
(APPLICATIONS)
(PIERCE, VIME, RAMSEY WINCHES ETC.)
REPLACES, MMD4001, MMD4401, 30214, 458002, 46-2289
46-3523, PS534-24V, MUX-6302, MMD-4001, & MMD-4401, 458005

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter

(The lower terminal post is for a ground cable connection)

(4.5 HP @ MAX/OUTPUT <> 1400 / 4000 RPM)

(For a "Double Ball Bearing" motor use MUX6304 or W-7724D)



24V *DBB (FORWARD & REVERSE)* (2) TERMINAL POST MOTOR WITH *.625" DIA. SHAFT WITH WOODRUFF KEY SLOT*

"WMS" PART NUMBER, W-9234

REPLACES NUMBER, W9234, 007-03900-24

(APPLICATIONS) (MISC. WINCHS FOR BOAT LIFTS ETC.)

(THE SHAFT LENGTH FROM CE FRAME IS 1"/ 25.4mm LONG)

(THE SHAFT LENGTH FROM DE FRAME IS 1.750"/ 44.45mm LONG)

(THE SHAFT AT THE COM END IS MADE TO FIT A 3/8" SOCKET)

24V *DBB (FORWARD & REVERSE)* (3) TERMINAL POST MOTOR WITH *.625" DIA. SHAFT WITH WOODRUFF KEY SLOT*

"WMS" PART NUMBER, W-9338

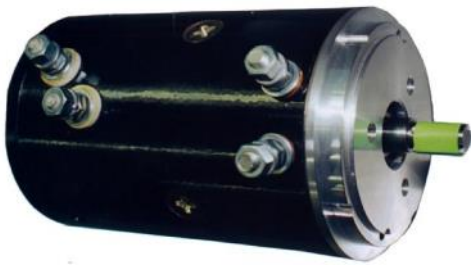
REPLACES NUMBER, W9338, 007-03900-24-3

(APPLICATIONS) (MISC. WINCHS FOR BOAT LIFTS ETC.)

(THE SHAFT LENGTH FROM CE FRAME IS 1"/ 25.4mm LONG)

(THE SHAFT LENGTH FROM DE FRAME IS 1.750"/ 44.45mm LONG)

(THE SHAFT AT THE COM END IS MADE TO FIT A 3/8" SOCKET)



24V *(DBB) INS/GROUND (FORWARD & REVERSE)* (4) POST MOTOR *WITH A .625" DIA. SHAFT WITH .187" BAR KEY SLOT*

"WMS" PART NUMBER, W-8424

(APPLICATIONS) *(MISCELLANEOUS BOAT, MARINE)*
(FOR MARINE WINDLESS APPLICATIONS)
(DE FRAME HAS (3) 8 X 1.25mm THREADED HOLES)

(Shaft diameter is .461/ 11.70mm <> Raised ring on DE is 3.52"/ 89.58mm)

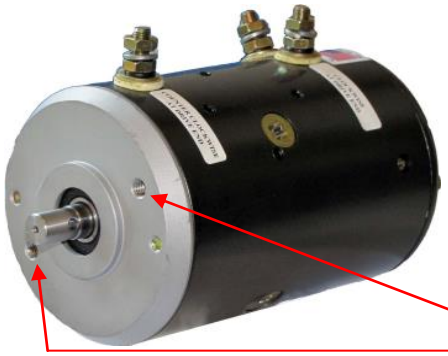
24V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR WITH "INSULATED" GROUND AND "OLP" **2.2 HP**

"WMS" PART NUMBER, W-7945

REPLACES NUMBERS, W7945, IM-0179, 11.216.403, 60000190

(APPLICATIONS) (NI VG, LEWMAR MARINE WINDLESS)

(THE SHAFT DIA. IS 0.550"/ 13.97mm) & HAS A .187" BAR KEY SLOT)



24V *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR WITH "INSULATED" GROUND AND "OLP" **2.2 HP**

(THE SHAFT LENGTH FROM THE END OF DE FRAME IS 1"/ 25.4mm LONG WITH A .551"/ 14mm DIAMETER SHAFT WITH A .200 ROLL PIN HOLE)

"WMS" PART NUMBER, W-6247

(APPLICATIONS) (MAXWELL MARINE WINDLESS)

REPLACES NUMBERS, W7947-24V, W6247, 30567

(8mm DE FRAME MOUNTING HOLE SPREAD IS 3.150"/ 80.01mm)

24V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) *HD* (2) POST MOTOR
WITH A .625" DIA. SHAFT WITH .187" BAR KEY SLOT.

"WMS" PART NUMBER, W-9824

(THIS IS A FORWARD & REVERSING VERSION OF OUR W-6536)

(APPLICATIONS) *(MISCELLANEOUS BOAT, MARINE AND)*
(TRUCKING CO. YARD TRACTOR TRAILER TUG UNITS ETC.)
(FIELD CASE HAS SWITCH HOLES)
(Shaft is 2"/ 50.8mm long <> Raised ring on DE is 3.25"/ 82.55mm)

24V *(CCW)* (2 POST) SHAFT MOTOR
WITH "INSULATED" GROUND

"WMS" PART NUMBER, W-6400

(APPLICATIONS) (MISC. MARINE)

(Shaft is 1.80"/ 45.72mm long <> Raised ring on DE is 3.00"/ 76.2mm)

(THE .625" DIAMETER SHAFT HAS A .250" HOLE FOR A ROLL PIN)

24V *(CCW)* (2 POST) SHAFT MOTOR
WITH "INSULATED" GROUND

"WMS" PART NUMBER, W-6624

(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)

(Shaft is 2.75"/ 69.85mm long <> Raised ring on DE is 3.25"/ 82.55mm)

(THE .625" DIAMETER SHAFT HAS A .187" BAR KEY SLOT)

Mounting centers are 5.5"

24V *(CCW)* (2 POST) SHAFT MOTOR
WITH "INSULATED" GROUND

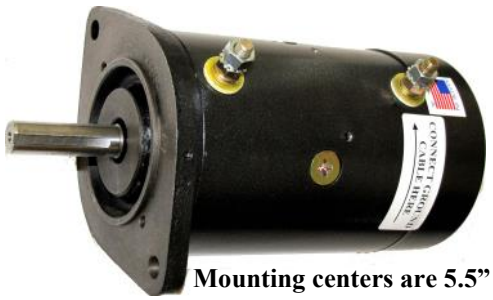
"WMS" PART NUMBER, W-6564

(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)

(Shaft is 2.25"/ 57.15mm long <> Raised ring on DE is 3.25"/ 82.55mm)

(THE .625" DIAMETER SHAFT HAS A .187" BAR KEY SLOT)

MOTOR LENGTH NOT INCLUDING SHAFT IS 8"



Mounting centers are 5.5"

24V *(F&R)* (3 POST) SHAFT MOTOR W/INS/GRD.
WITH "INSULATED" GROUND

"WMS" PART NUMBER, W-7642

(APPLICATIONS) (MISC. MARINE)

(Shaft is 1.75"/ 44.45mm long <> Raised ring on DE is 3.00"/ 76.2mm)

(THE .625" DIAMETER SHAFT HAS A BAR KEY SLOT)

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) *HD* (2) POST MOTOR
WITH A .625" DIA. SHAFT WITH WOODRUFF KEY SLOT

"WMS" PART NUMBER, W-7626

(OVERALL MOTOR BODY LENGTH IS 8")

SHAFT IS 1.750"/ 44.45mm OUT FROM THE DE FRAME

12V *(BI-DIRECTIONAL)* (2 POST) WINCH MOTOR
HAS .625" DIAMETER SHAFT WITH WOODRUFF KEY SLOT

"WMS" PART NUMBER, W-8727

SHAFT DIAMETER IS .625"/ 15.87mm)
(SHAFT LENGTH FROM FACE OF DE FRAME IS 1 .750"/ 44.45mm LONG)
(DIAMETER OF THE RAISED RING ON THE DRIVE END FRAME IS 3"/ 76.2mm)

Mounting centers are 5.5"

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) (2) POST MOTOR
WITH A .625" DIA. SHAFT WITH BAR KEY SLOT

"WMS" PART NUMBER, W-6501

.SHAFT IS 1.75"/ 44.45mm OUT FROM THE DE FRAME
(FOR A MOTOR WITH THE SHAFT OUT 2.75" USE W-6500)

Mounting centers are 5.5"

12V *(BI-DIRECTIONAL) DBB* (3 POST) 4.8 HP
MOTOR WITH *.625" DIAMETER ROUND SHAFT*

"WMS" PART NUMBER, W-7698

(SHAFT DIAMETER IS 0.625"/ 15.87mm)
(SHAFT LENGTH FROM FACE OF DE FRAME IS 5.5"/ 139.7mm)
(THE DIAMETER OF THE RAISED RING ON THE DRIVE END FRAME IS 3.25"/ 82.55mm)

12V *(BI-DIRECTIONAL) DBB* (3 POST) 2.5 HP
MOTOR WITH *.625" DIAMETER ROUND SHAFT*

"WMS" PART NUMBER, W-6562

(SHAFT DIAMETER IS 0.625"/ 15.87mm)
(SHAFT LENGTH FROM FACE OF DE FRAME IS 5.5"/ 139.7mm)
(THE DIAMETER OF THE RAISED RING ON THE DRIVE END FRAME IS 3.25"/ 82.55mm)

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) 2 POST SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8901-P

REPLACES NUMBERS, MMQ-4003, MMQ-4003S, MMQ-4003AS
W8901P, 39200482, 39200397, MMQ-4002, 46-2370, 46-2382,
M1-1399-00, 9007443, 9130450035, 450035, 222-6635, 46-4220

("WITH" SPACER WASHER BEHIND THE DE BALL BEARING
SO THE SHAFT SLOT IS SLIGHTLY RECESSED IN BEARING)

(APPLICATIONS) (MTE HYDRAULICS, J.S. BARNES, HAHN HYD.)

(VENCO LIFTS, FENNER FLUID POWER)

(FOR A MOTOR WITH "OLP" USE NUMBER MUV-6302A OR W-6901)

****

***** MOST POPULAR *****

*** FORWARD AND REVERSE ***
*** SLOT SHAFT MOTOR ***

WITH MULTI SWITCH HOLES

.256"/ 6.50mm Shaft slot

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) 2 POST SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8901-E

REPLACES, W8901E, M-3500, 46-142, 46-2363,
GC395081, GC-3950-B1, 35017, MMQ-4001, MMQ-4001S

(BLACK PRESTOLITE STYLE MOTOR)

("WITHOUT" SPACER WASHER BEHIND THE DE BALL BEARING
SO THE SHAFT SLOT IS ALMOST EVEN WITH THE BALL BEARING)

(APPLICATIONS) (MTE HYDRAULICS, J.S. BARNES, HAHN HYD.,)
(STONE HYD., FENNER FLUID POWER, VENCO LIFTS)

WITH MULTI SWITCH HOLES

.256"/ 6.50mm Shaft slot

12V *(BI-DIRECTIONAL 2 POST SLOT SHAFT MOTOR)*

"WMS" PART NUMBER, W-8901-BC

(APPLICATIONS) ***(SAME AS ABOVE NUMBER, W-8901-P)***

("WITH" SPACER WASHER BEHIND THE DE BALL BEARING
SO THE SHAFT SLOT IS SLIGHTLY RECESSED IN BEARING)

(APPLICATIONS)
(MTE HYDRAULICS, J.S. BARNES, HAHN HYD.)
(VENCO LIFTS, FENNER FLUID POWER)

BUSHING COM END

.256"/ 6.50mm Shaft slot

12V "HD" *(F & R) (DBB)* SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-9901C

(APPLICATIONS)

(Jaws of Life & HD version of the W-8901-P)

(SAME AS ABOVE MOTOR NUMBERS, W-8901-P ONLY THIS MOTOR IS 7"
LONG AND HAS 12 SWITCH HOLES FOR MULTI / SWITCH LOCATIONS)

(For 24V use number W-9924)

WITH MULTI SWITCH HOLES

*** VERY POPULAR ***

OVERLOAD PROTECTION
.256"/ 6.50mm Shaft slot

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) 2 POST SLOT SHAFT MOTOR WITH
"OVERLOAD" PROTECTION & MULTI SWITCH HOLES

"WMS" PART NUMBER, W-6901

REPLACES NUMBERS, 280381, 39200498
W6901, MUV6202S, MUV-6301A, MUV-6202, MUV-6202S

(APPLICATIONS) (MTE HYDRAULICS, HALDEX BARNES)

(CAN USE "AMETEK" NUMBER MUV6301A)

Ametek Prestolite motor

12V *(DBB) BI-DIRECTIONAL (FORWARD & REVERSE)*
2 POST SLOT SHAFT MOTOR WITH (4) SWITCH HOLES
AND "OVERLOAD" PROTECTION

"AMETEK" PART NUMBER, MUV6301A

REPLACES, W-6901, MUV6301A, MUV-6202, MUV-6202S

(APPLICATIONS) (MTE HYDRAULICS, HALDEX BARNES,)

(CAN USE "WMS" NUMBER W-6901)

THRU BOLTS ARE 5/16 X 18

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) TANG SHAFT MOTOR.
(HAS A OIL SEAL AT THE DRIVE END)

"WMS" PART NUMBER, W-8578

REPLACES, FORD CONVERSIONS & "OEM" PRESTOLITE
(APPLICATIONS) (SIGN TRUCKS, MINING EQUIPMENT, ETC.)

THE SHAFT TANG WIDTH IS .250"/ 6.35mm WIDE
SHAFT LENGTH FROM DE FRAME IS .551"/ 14mm LONG
(THE RAISED RING DIAMETER ON DRIVE END IS 2.75"/ 69.85mm)

THRU BOLTS ARE 5/16 X 18

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) TANG SHAFT MOTOR.
(HAS A OIL SEAL AT THE DRIVE END)

"WMS" PART NUMBER, W-8599

REPLACES, W8599, 120994, 120999, 12099-4, 40945, 52353, MM-40945

APPLICATIONS, BOOM SIGN TRUCKS, ETC.

THE SHAFT TANG WIDTH IS .250"/ 6.35mm.WIDE
SHAFT LENGTH FROM DE FRAME IS .750"/ 19.04mm LONG
(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

USES BUSHING AT DE

12V *(F&R)* SPECIAL SLOT SHAFT MOTOR WITH
BUSHING TYPE SHAFT AT THE DRIVE END SLOT

"WMS" PART NUMBER, W-8976-P

REPLACES , W8976, 46-2109, W8976P, MMC-4002,

(APPLICATIONS) (SPENCER HYDRAULICS AND SPX)

*** VERY POPULAR ***

* FORWARD AND REVERSE *
* SHAFT MOTOR *

THRU BOLTS ARE 5/16 X 18

12V* *(DBB) BI-DIRECTIONAL
***(FORWARD & REVERSE)* (2) POST MOTOR WITH A**
.625" DIA. SHAFT WITH WOODRUFF KEY SLOT.

"WMS" PART NUMBER, W-8938-P

REPLACES, W8938P, 16111-NC, M-3800, 01024E, 100500, 16111D
W-8938, 16111, 11840, W8938, W-8938F, 430-22002, 46-4071, MMQ-4004S

(APPLICATIONS) (VENCO VENTURO, SANTA ANITA)

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm

(THE SHAFT LENGTH FROM DE FRAME IS 1.750"/ 44.45mm LONG)

(OVERALL LENGTH OF THE MOTOR NOT INCLUDING SHAFT IS 6.5")

12V* *(DBB) BI-DIRECTIONAL
***(FORWARD & REVERSE)* *HD* (2) POST MOTOR**
WITH A .625" DIA. SHAFT WITH WOODRUFF KEY SLOT.

"WMS" PART NUMBER, W-9938-P

(SAME APPLICATIONS AS THE ABOVE MOTOR)
(ONLY THIS MOTOR HAS *HD* COILS & ARMATURE)

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm

(THE SHAFT LENGTH FROM DE FRAME IS 1.750"/ 44.45mm LONG)

(OVERALL LENGTH OF THE MOTOR NOT INCLUDING SHAFT IS 7.5")

THRU BOLTS ARE 5/16 X 18

12V* *BI-DIRECTIONAL (FORWARD & REVERSE)
(2) TERMINAL POST MOTOR WITH
A .625" DIA. SHAFT WITH .187" WIDE BAR KEY SLOT.

"WMS" PART NUMBER, W-6738

REPLACES NUMBERS, W6738, 16115, 16115-1

(APPLICATIONS) (VENCO VENTURO, SANTA ANITA)

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm

(THE SHAFT LENGTH FROM DE FRAME IS 1.750"/ 44.45mm LONG)

(LIKE THE W-8938P ONLY WITH A 3/16 "BAR" KEY SLOT)

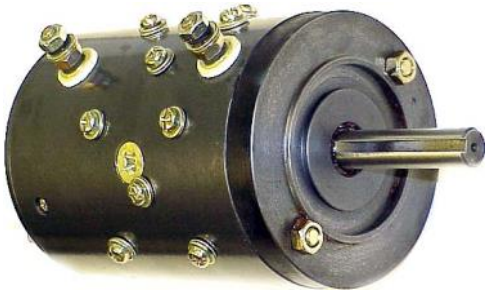
12V* *BI-DIRECTIONAL DBB (FORWARD & REVERSE)
(2) TERMINAL POST MOTOR WITH *A .625"*
DIAMETER SHAFT WITH .187" WIDE BAR KEY SLOT.

"WMS" PART NUMBER, W-6838

SAME AS OUR W-8938-P & W-6738 ONLY WITH BAR KEY SHAFT THAT IS 2.75" LONG FROM THE DE FRAME.

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm

(THE SHAFT LENGTH FROM DE FRAME IS 2.750"/ 69.85mm LONG)



12V *(DBB) BI-DIRECTIONAL (F & R)*
2 POST "SLOT SHAFT MOTOR" W/CE EXTENSION

"WMS" PART NUMBER, W-6801E

REPLACES NUMBER, W6801, W6801E
W-8901P W/CE SHAFT FOR MANUAL ROTATION

(APPLICATIONS) MARINE LIFTS
(MTE HYDRAULICS, HALDEX, HAHN HYD., VENCO LIFTS)
(THE SHAFT AT THE COM END IS MADE TO FIT A 3/8" SOCKET)

Motor body length is 7"

12V *(BI-DIRECTIONAL) DBB* (3 POST) 4.8 HP MOTOR WITH *.625" DIA. SHAFT W/KEY SLOT*

"WMS" PART NUMBER, W-7610

(SHAFT DIAMETER IS 0.625"/ 15.87mm)

(SHAFT LENGTH FROM FACE OF DE FRAME IS 1.75"/ 44.45mm)
(THE DIAMETER OF THE RAISED
ALINGMENT RING ON THE DE FRAME IS 4.125"/ 104.77mm)

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR WITH A *(11) TOOTH GEAR SHAFT" *2.5HP**

"WMS" PART NUMBER, W-8711

REPLACES NUMBERS,
W-8933 W/A (11) TOOTH GEAR SHAFT, W8711
12V WINCH APPLACATIONS

24V *(BI-DIRECTIONAL)* (3 POST) *(DBB)* WINCH MOTOR, *HAS .625" DIA. SHAFT WITH .187" BAR KEY SLOT AT THE CE AND THE DE OF THE MOTOR.*

"WMS" PART NUMBER, W-6356

(APPLICATIONS) (CRANES, LIFT BOOM ARMS, ETC.)
(SHAFT LENGTH IS 1.125"/ 28.57mm FROM COM END)
(SHAFT LENGTH IS 2.125"/ 53.97mm FROM DRIVE END)
THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm
LOWER SIDE OF FIELD/CASE HAS (3) 3/8X24 THREADED MT/HOLES

12V *(DBB) BI-DIRECTIONAL (F & R)*
2 POST "METRIC" SHAFT MOTOR

"WMS" PART NUMBER, W-7030M

REPLACES NUMBERS, W7030, W7030M

(APPLICATIONS)

(MARINE WINCHES, IDEAL WINDLESS)

(From the bearing out, the shaft is 1.375/ 34.92mm long and 0.551/ 14mm in diameter w/a 5mm oval key slot)

(The end of the shaft has a 5/16X18 threaded hole)

12V *BI-DIRECTIONAL (F & R)*
3 POST SHAFT MOTOR W/A /INS/GRD.

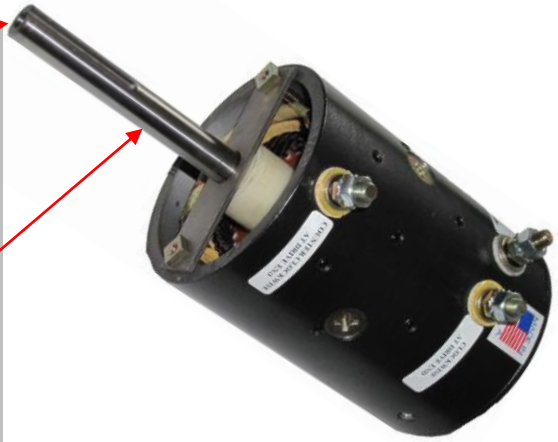
"WMS" PART NUMBER, W-8700

REPLACES NUMBER,
W8700, 46-2634, MMC4006, MMC4006S

(APPLICATIONS) MAXWELL NILLSON

HAS .625"/ 15.87mm DIA. SHAFT WITH BAR KEY SLOT

(The shaft has a 0.1875/ 4.762mm pin hole 3.060/ 77.72mm back from the outer end)



12V *(BI-DIRECTIONAL)* (3 POST) MOTOR

HAS .625"/ 15.87mm DIA. SHAFT WITH BAR KEY SLOT

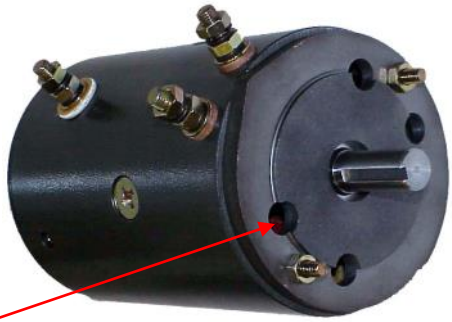
"WMS" PART NUMBER, W-8743

REPLACES, MUE6115S, 46-4059, MUE6115, MUE-6115

(APPLICATIONS) (ULTRA FAB PRODUCTS) *2.3 HP*

Raised alignment ring diameter is 3"/ 76.20mm
Shaft length from the drive end frame is 1.5"/ 38.1mm

(THIS IS A "VENTED" MOTOR)



24V *(DBB) BI-DIRECTIONAL (F & R)*
2 POST SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-9924

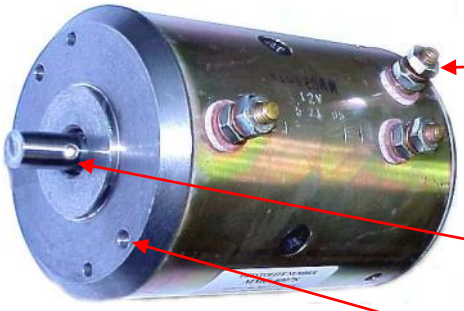
REPLACES NUMBER,
W-8824HD, W-9901-24V, W9924

(APPLICATIONS) MARINE LIFTS

(MTE HYDRAULICS, HALDEX, HAHN HYD., VENCO LIFTS)

(For 12V use number W-9901C)

Motor body length is 7"



12V *BI-DIRECTIONAL (FORWARD & REVERSE)*
(3 POST MOTOR WITH "INSULATED" GROUND)

"WMS" PART NUMBER, 46-3647N

REPLACES, MMC4007, 46-3647, MMC-4007, MMC-4007S

(APPLICATIONS) (MAXWELL MARINE WINDLESS)

(SHAFT LENGTH FROM THE END OF DE FRAME IS 1"/ 25.4mm LONG
WITH A .551"/ 14mm DIAMETER SHAFT WITH A .200 ROLL PIN HOLE)

(OVERALL MOTOR BODY LENGTH IS 6.5"/ 165.1mm)
(8mm DE FRAME MOUNTING HOLE SPREAD IS 3.460"/ 87.88mm)

7.5" LONG "HD" VERSION

12V *BI-DIRECTIONAL (FORWARD & REVERSE)*
(3 POST MOTOR WITH "INSULATED" GROUND)

"WMS" PART NUMBER, 46-3648N

REPLACES, MUJ4001, 46-3648, MUJ-4001, MUJ-4001S

(APPLICATIONS) (MAXWELL MARINE WINDLESS)

(THE SHAFT LENGTH FROM THE END OF DE FRAME IS 1" LONG
WITH A 14mm (.551) DIAMETER SHAFT WITH A .200 ROLL PIN HOLE)

(OVERALL MOTOR BODY LENGTH IS 7.5"/ 190.5mm)
(8mm DE FRAME MOUNTING HOLE SPREAD IS 3.460"/ 87.88mm)

THRU BOLTS ARE 5/16 X 18

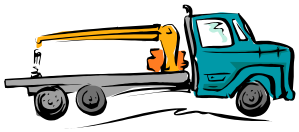
12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) TANG SHAFT MOTOR.
(HAS A RUBBER OIL SEAL AT THE DRIVE END)

"WMS" PART NUMBER, W-8538

REPLACES, FORD CONVERSIONS & PRESTOLITE

(APPLICATIONS) (SIGN TRUCKS & MINING EQUIPMENT)

THE ARMATURE TANG WIDTH IS .188"/ 4.77mm WIDE
SHAFT LENGTH FROM DE FRAME IS 14mm (.551) LONG
(THE RAISED RING DIAMETER ON DRIVE END IS 2.75/ 6.98mm)



THRU BOLTS ARE 5/16 X 18

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) (2) POST MOTOR
WITH A *.625" DIA. SHAFT WITH PIN HOLE*

"WMS" PART NUMBER, W-8876

(THIS IS LIKE A W-8938-P WITH A)
(SHORT SHAFT & WITH ROLL PIN HOLE)

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(SHAFT IS 28MM OUT FROM FACE OF DE FRAME)

(THE # 16 SIZE HOLE IN THE SHAFT IS .905"/ 23mm OUT FROM DE FACE)

SHAFT IS 28MM LONG

12V *"DBB" BI-DIRECTIONAL (FORWARD & REVERSE)*
(2) TERMINAL POST MOTOR WITH
A .625" DIA. SHAFT WITH WOODRUFF KEY SLOT.

"WMS" PART NUMBER, W-6904

REPLACES NUMBERS, W6904, 46-2148, MDL-2166, MMC-4004

(APPLICATIONS) (CROW RIVER INDUSTRIES)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)
(THE SHAFT LENGTH FROM DE FRAME IS 2.5"/ 63.5mm) LONG)

THRU BOLTS ARE 5/16 X 18

12V "DBB" *BI-DIRECTIONAL (INSULATED GROUND)*
(3) TERMINAL POST MOTOR WITH *A .625" DIAMETER*
SHAFT W/A .187"/ 4.76mm WIDE BAR KEY SLOT

"WMS" PART NUMBER, W-6740

(APPLICATIONS) (BOW THRUSTER MOTOR FOR BOATS)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)
(THE SHAFT LENGTH FROM DE FRAME IS 2.75"/ 69.85mm) LONG)

THRU BOLTS ARE 5/16 X 18

12V *(DBB) BI-DIRECTIONAL (INSULATED GROUND)*

"WMS" PART NUMBER, W-7031M

(FORWARD & REVERSE) **(3) POST MOTOR**

THE SHAFT LENGTH FROM THE END OF DE FRAME IS 1"/ 25.4mm LONG
WITH A .551 (14mm) DIAMETER SHAFT WITH A KEY SLOT.

12V *BI-DIRECTIONAL (FORWARD & REVERSE)*
(5) TERMINAL POST MOTOR WITH A .625" DIA. SHAFT

"WMS" PART NUMBER, W-7101

REPLACES NUMBERS, PWR-D-26551 26551, 46-2257, MEZ-7101
W7101, D-26551, D26551, MEZ7101, PWRD26551, PWRD-26551

(APPLICATIONS) (BARIENT MARINE)

(THIS IS A (5) TERMINAL POST "INSULATED" GROUND MOTOR)

12V *BI-DIRECTIONAL "DBB" MOTOR*
(3) POST WITH (INSULATED GROUND)

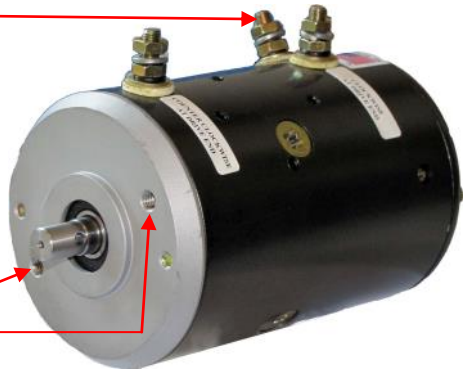
(THE SHAFT LENGTH FROM THE END OF DE FRAME IS 1"/ 25.4mm LONG
WITH A .551"/ 14mm DIAMETER SHAFT WITH A .200 ROLL PIN HOLE)

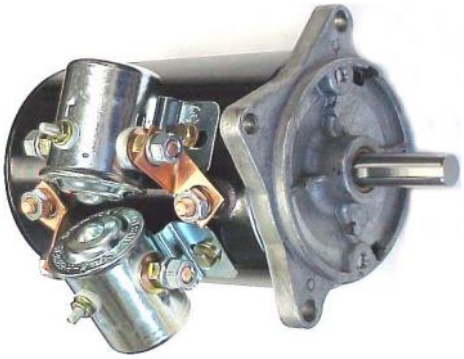
"WMS" PART NUMBER, W-7947

(APPLICATIONS) (MAXWELL MARINE WINDLESS)

REPLACES, P1112, W7947, N16942 W7947N, 01484, 11112, 30564

(8mm DE FRAME MOUNTING HOLE SPREAD IS 3.150"/ 80.01mm)





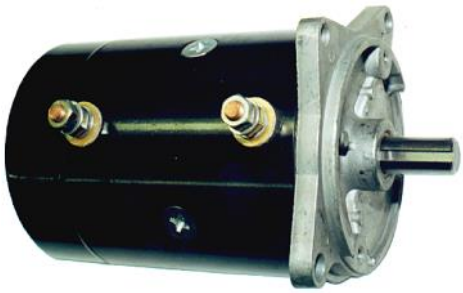
12V *BI-DIRECTIONAL (F&R)* (2) POST MOTOR
WITH A 1.625" *LONG / .625" DIAMETER SHAFT*
THIS MOTOR IS COMPLETE WITH TWO SOLENOIDS

"WMS" PART NUMBER, W-8310

REPLACES, (*FORD STARTER F & R CONVERSATIONS*)

(APPLICATIONS)
(FORD, VENCO, VENTURA, SANTA ANITA)
(TRUCKING CO. YARD TRACTOR TRAILER TUG UNITS)

(The shaft with bar key slot is 1.625"/ 41.27mm long)



12V *BI-DIRECTIONAL (F&R)* (2) POST MOTOR
WITH A 1.625" *LONG / .625" DIAMETER SHAFT*

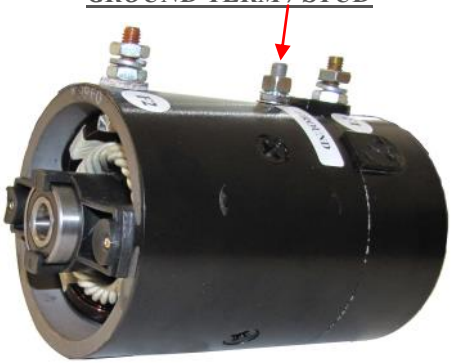
"WMS" PART NUMBER, W-8311

REPLACES, (*FORD STARTER F & R CONVERSATIONS*)

(APPLICATIONS)
(FORD, VENCO, VENTURA, SANTA ANITA)
(TRUCKING CO. YARD TRACTOR TRAILER TUG UNITS)

(The shaft with bar key slot is 1.625"/ 41.27mm long)
(For a motor complete with two switches use W-8310)

GROUND TERM / STUD



Motor length is 6"

12V *"DBB" BI-DIRECTIONAL* (2) POST SLOT SHAFT
MOTOR WITH A "GROUND TERMINAL STUD"

"WMS" PART NUMBER, W-9960

REPLACES NUMBERS, AMETEX MUV63XX
THIS IS A STANDARD DUTY VERSION OF THE W-9962

(APPLICATIONS)
(CRANES) (VENCO, SANTA ANITA)

YOU MUST INSTALL THE DRIVE END FRAME
FROM THE ORIGINAL MOTOR BEING REPLACED

GROUND TERM / STUD

Motor length is 7"

12V *(DBB) BI-DIRECTIONAL (FORWARD & REVERSE)*
(2) POST MOTOR WITH A *SLOT SHAFT ARMATURE*

"WMS" PART NUMBER, W-9962

REPLACES, (*AMETEK XOT MOTOR) (4.5" Diameter)*

(APPLICATIONS) (CRANES) (VENCO, SANTA ANITA)
(The center terminal is a "Ground terminal stud")

(NOTE) THE DRIVE END BRACKET IS FOR SHIPPING ONLY

YOU MUST INSTALL THE DRIVE END FRAME
FROM THE ORIGINAL MOTOR BEING REPLACED.

***12V* *BI-DIRECTIONAL (F&R)* (2) TERMINAL POST MOTOR WITH A 5.5"/ 139.7mm LONG SHAFT**

"WMS" PART NUMBER, W-8312

(MOTOR HAS THE (3) BOLT "3115" FORD STARTER STYLE DRIVE END FRAME)

(THE SHAFT LENGTH FROM FACE OF DE FRAME IS 5.5" LONG)

(THE DIAMETER OF THE RAISED ALINGMENT RING ON THE DE FRAME IS 4.125"/ 104.77mm)

(.625 diameter shaft length is 5.5"/ 139.7mm long with no keys or slots)

***12V* *BI-DIRECTIONAL (F&R)* (2) POST MOTOR WITH A 0.187"/ 4.76mm BAR KEY SLOT**

(FIELD FRAME IS DRILLED FOR MOUNTING TWO SOLENOID SWITCHES)

"WMS" PART NUMBER, W-8313

(MOTOR HAS THE (3) BOLT "3115" FORD STARTER STYLE DRIVE END FRAME)

(SHAFT LENGTH FROM FACE OF DE FRAME IS 2.5"/ 63.5mm LONG)

(THE DIAMETER OF THE RAISED RING ON THE DE FRAME IS 4.125")

12V* *BI-DIRECTIONAL (F&R)* (2) POST MOTOR WITH A *5.5"/ 139.7mm LONG / .625" DIAMETER SHAFT

THIS MOTOR IS COMPLETE WITH TWO SOLENOIDS

"WMS" PART NUMBER, W-8315

REPLACES, (*FORD STARTER F & R CONVERSATIONS*)

(APPLICATIONS)

(FORD, VENCO, VENTURA, SANTA ANITA)

(TRUCKING CO. YARD TRACTOR TRAILER TUG UNITS)

(The shaft is round without any key slots)

12V* *BI-DIRECTIONAL (F&R)* (2) POST MOTOR WITH A *2.75"/ 69.85mm LONG / .625" DIAMETER SHAFT

THIS MOTOR IS COMPLETE WITH TWO SOLENOIDS

"WMS" PART NUMBER, W-8317

REPLACES, (*FORD STARTER F & R CONVERSATIONS*)

(APPLICATIONS)

(FORD, VENCO, VENTURA, SANTA ANITA)

(TRUCKING CO. YARD TRACTOR TRAILER TUG UNITS)

(The shaft has a 3/16" bar key slot)

12V *BI-DIRECTIONAL (FORWARD & REVERSE)*

"WMS" PART NUMBER, W-8900

REPLACES, W8900, 46-2132, MMC-4003, 46-2590, MMC-4003S

(APPLICATIONS) (IDEAL WINDLASS, MAXWELL WINCH)

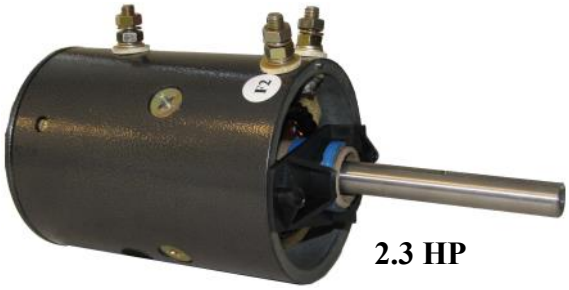
(THE SHAFT LENGTH FROM END OF FIELD FRAME IS 4.625" LONG)

(SHAFT HAS A 5/16 X 18 THREADED HOLE IN THE END)

("WMS" IS THE "OEM" SUPPLIER TO THE MANUFACTURER)

(FOR A ONE POST "CW" MOTOR ORDER NUMBER W-7003)

(THE SHAFT HAS A 3/16 BAR KEY SLOT)



2.3 HP

12V *BI-DIRECTIONAL (FORWARD & REVERSE)*

"WMS" PART NUMBER, W-8900-B

THIS IS A (3) TERMINAL POST VERSION
OF THE ABOVE WINCH MOTOR

(APPLICATIONS) (IDEAL WINDLASS, MAXWELL WINCH)

(THE SHAFT LENGTH FROM END OF FIELD FRAME IS 4.625" LONG)

(SHAFT HAS A 5/16 X 18 THREADED HOLE IN THE END)

("WMS" IS THE "OEM" SUPPLIER TO THE MANUFACTURER)

(THE SHAFT HAS A 3/16 BAR KEY SLOT)

12V *BI-DIRECTIONAL (FORWARD & REVERSE)*

"WMS" PART NUMBER, W-7015

REPLACES, 46-2452, W7015, MMC-4005, MMC-4005S,

(APPLICATIONS) (IDEAL WINDLASS, MAXWELL WINCH)

(SHAFT HAS WOODRUFF KEY SLOT AND THE
END OF SHAFT HAS 5/8 X 11 TPI THREADS
WITH PIN HOLE FOR LOCKING THE NUT)

(FOR A ONE POST "CW" MOTOR ORDER NUMBER W-7018)

("WMS" IS THE "OEM" SUPPLIER TO THE MANUFACTURER)

12V (F&R) SHAFT MOTOR

"WMS" PART NUMBER, W-8314

(APPLICATIONS) (McMURRAY WINCHES)

(.625 diameter shaft length is 5.5"/ 139.7mm long with no keys or slots)

(The motor has the round drive end frame
and the raised ring diameter is 3"/ 76.2mm)

(THE THRU BOLT THREADS ARE 5/16 X 18)

(For a motor w/a 3" long bar key slot from the end of shaft use W-8314B)

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) (3) POST MOTOR
WITH A *.625"/ 15.87mm DIAMETER SHAFT* *3.4 HP*

"WMS" PART NUMBER, W-8837

(APPLICATIONS) (MISCELLANEOUS CRANES)

(VENCO, PRESTOLITE, VENTURA, FORD, SANTA ANITA)

(THE BAR KEY SLOT IS .187"/ 4.76mm WIDE)

(FOR "MY-TE" USE MOTOR NUMBER W-8842)

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(THE SHAFT IS 2.5"/ 63.5mm OUT FROM THE DRIVE END FRAME)

THRU BOLTS ARE 5/16 X 18

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) (3) POST MOTOR
WITH A .625"/ 15.87mm DIAMETER SHAFT *3.4 HP*

"WMS" PART NUMBER, W-8842

(APPLICATIONS) (CRANES, FOR *MY-TE)*
(FORD, VENCO, PRESTOLITE, VENTURA, SANTA ANITA)

(THE BAR KEY SLOT IS .125"/ 3.175mm WIDE)

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(THE SHAFT IS 2.5"/ 63.5mm OUT FROM THE DRIVE END FRAME)

THRU BOLTS ARE 5/16 X 18

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) (3) POST MOTOR WITH A
.625" DIAMETER SHAFT WITH KEY SLOT. *3.4 HP*

"WMS" PART NUMBER, W-8942

(THIS IS A THREE POST VERSION OF A W-8938)

(APPLICATIONS) (CRANES, FOR (*MY-TE) USE # W-8842)*
(VENCO, PRESTOLITE, VENTURA, FORD, SANTA ANITA)

(ARMATURE SHAFT IS 1.750"/ 44.45mm OUT FROM DE)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

12V (F&R) SHAFT MOTOR WITH (2) SWITCHES

"WMS" PART NUMBER, W-8314WS

(APPLICATIONS) (McMURRAY WINCHES)

(.625 diameter shaft length is 5.5"/ 139.7mm long with no keys or slots)

(The motor has the round drive end frame
and the raised ring diameter is 3"/ 76.2mm)

(THE THRU BOLT THREADS ARE 5/16 X 18)

*** FORWARD* AND REVERSE ***
*** 24V SLOT SHAFT MOTOR ***

24V* (DBB) BI-DIRECTIONAL
***(FORWARD & REVERSE)* SLOT SHAFT MOTOR.**
(BLACK PRESTOLITE STYLE MOTOR <> MOTOR IS 6" LONG)

"WMS" PART NUMBER, W-8824-P

REPLACES, 46-2421, W8824P, M-3500-24V, MMS-4001, MMS-4001S
(APPLICATIONS) (MTE HYDRAULICS)
(STONE HYDRAULICS & FENNER FLUID POWER)
(FOR A LONGER (7") "HD" MOTOR USE NUMBER W-9924)

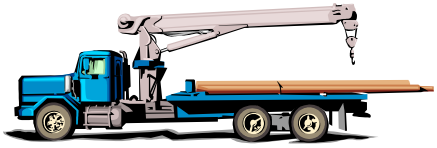
THRU BOLTS ARE 5/16 X 18

24V* (DBB) BI-DIRECTIONAL
***(FORWARD & REVERSE)* (2) POST MOTOR WITH A**
.625" DIA. SHAFT WITH WOODRUFF KEY SLOT.

"WMS" PART NUMBER, W-8838-P

(THIS IS A *24V* VERSION OF MOTOR # W-8938-P)

REPLACES NUMBERS, W8838, M-3800-24V, 100500-24V
(APPLICATIONS) (VENCO VENTURA, SANTA ANITA)
(SHAFT LENGTH IS 1.750"/ 44.45mm FROM DRIVE END)
(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)



12V* CW* (MDT) *MOTOR WITH .625" DIA. SHAFT
(DBB) (WITH 5/16 X 18 THRU BOLTS)

"WMS" PART NUMBER, W-6022

(FOR SAND & CEMENT TRUCKS TO RUN VIBRATORS)
(SHAFT HAS FLAT SPOT FOR SET SCREW)
(SHAFT LENGTH IS 2.50"/ 63.5mm FROM DRIVE END)
(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)
(FOR MOTOR WITH 1.8" LONG SHAFT USE W-8844P)

SHAFT IS 2.50"/ 63.5mm LONG

12V* "CW" (MDT) *MOTOR WITH .625" DIA. SHAFT
(DBB) (WITH 5/16 X 18 THRU BOLTS)

"WMS" PART NUMBER, W-8844P

(FOR SAND & CEMENT TRUCKS TO RUN VIBRATORS)
(SHAFT HAS FLAT SPOT FOR SET SCREW)
(SHAFT LENGTH IS 1.8"/ 45.72mm FROM DRIVE END)
(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)
(FOR A MOTOR WITH A 2.5" LONG SHAFT USE NUMBER W-6022)

SHAFT IS 1.8"/ 45.72mm LONG

12V *MOTOR WITH .750"/ 19.05mm DIAMETER SHAFT*

(TWO FIELD COILS) (CW) ROTATION

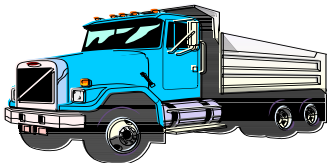
"WMS" PART NUMBER, W-8137B

REPLACES NUMBER, W8137B, 460012

(APPLICATIONS) GLOBAL MFG. EQUIPMENT

(USED ON SAND & CEMENT TRUCKS TO RUN VIBRATORS)

(Shaft length from the field frame is 0.95)



12V *MOTOR WITH .625"/ 15.87mm DIAMETER SHAFT*

(FOUR FIELD COILS) (CW) ROTATION

"WMS" PART NUMBER, W-8020

REPLACES NUMBER, M-46300, W8020, D07-MDT-6020L

(APPLICATIONS) DEL HYDRAULICS, DEL EQUIPMENT

(USED ON SAND & CEMENT TRUCKS TO RUN VIBRATORS)

(SHAFT LENGTH IS 1.625"/ 41.27mm FROM DRIVE END)

12V "CW" (DBB) MOTOR *WITH A .625" DIA. SHAFT WITH A 3/16 BAR KEY SLOT*

"WMS" PART NUMBER, W-6932

(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)

(SHAFT HAS A BAR KEY SLOT)

(SHAFT LENGTH IS 2.75"/ 69.85mm FROM DRIVE END)

(MOTOR HAS A 56C FACE DRIVE DE FRAME)

(FOR A "CCW" MOTOR USE NUMBER W-6930)

56C FRAME

12V "CCW" (DBB) MOTOR *WITH A .625" DIA. SHAFT WITH A 3/16 BAR KEY SLOT*

"WMS" PART NUMBER, W-6930

(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)

(SHAFT HAS A BAR KEY SLOT)

(SHAFT LENGTH IS 2.75"/ 69.85mm FROM DRIVE END)

(MOTOR HAS A 56C FACE DRIVE DE FRAME)

(FOR A "CW" MOTOR USE NUMBER W-6932)

56C FRAME

12V *MOTOR WITH .625"/ 15.87mm DIAMETER SHAFT*

(FOUR FIELD COILS) (CW) ROTATION

"WMS" PART NUMBER, W-8322

ARMATURE SHAFT IS 2"/ 50.8mm OUT FROM THE DE FRAME MOUNT AND HAS A FLAT AREA FOR A SET SCREW

12V *MOTOR WITH .625"/ 15.87mm DIAMETER SHAFT*

(FOUR FIELD COILS) (CW) ROTATION

"WMS" PART NUMBER, W-6720

ARMATURE SHAFT IS 4.125"/ 104.75mm OUT FROM THE DE FRAME AND HAS A WOODRUFF KEY SLOT

56C FRAME

24V* CW/INS/GRD* TWO POST MOTOR *WITH A .625" DIA. SHAFT WITH 3/16 BAR KEY SLOT (DBB)

"WMS" PART NUMBER, W-6922

(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)

(SHAFT LENGTH IS 2.125"/ 53.97mm FROM DRIVE END)

(FOR A "CCW" MOTOR USE NUMBER W-6924)

24V* "CW" (DBB) MOTOR *WITH A .625"/ 15.87mm DIAMETER SHAFT WITH BAR KEY SLOT

"WMS" PART NUMBER, W-8224

(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)

(SHAFT HAS A 3/16 BAR KEY SLOT)

(SHAFT LENGTH IS 2.75"/ 69.85mm FROM DRIVE END)

(MOTOR HAS A 56C FACE DRIVE DE FRAME)

(THIS MOTOR IS "NOT" A INSULATED GROUND)

24V* "CCW/INS/GRD" TWO POST MOTOR *WITH A .625"/ 15.87mm DIAMETER SHAFT WITH BAR KEY SLOT

"WMS" PART NUMBER, W-6924

(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)

(SHAFT HAS A 3/16 BAR KEY SLOT)

(SHAFT LENGTH IS 2.75"/ 69.85mm FROM DRIVE END)

(MOTOR HAS A 56C FACE DRIVE DE FRAME)

(FOR A "CW" MOTOR USE NUMBER W-8224)

12V (CW) MOTOR *(.625" DIA. SHA. W/A 3/16 SLOT)*

"WMS" PART NUMBER, W-7003

REPLACES, W7003, MDY7003, MDY-7003, 46-440

(APPLICATION) (IDEAL WINDLESS, MAXWELL WINCH)

("WMS" IS THE "OEM" SUPPLIER TO THE MANUFACTURER)

(SHAFT IS OUT 4.625"/ 114.3mm) FROM THE EDGE OF THE FIELD CASE)

(SHAFT HAS A 5/16 X 18 THREADED HOLE IN THE END)

12V (CW) MOTOR *WITH 0.434" DIAMETER SHAFT*

"WMS" PART NUMBER, W-7004

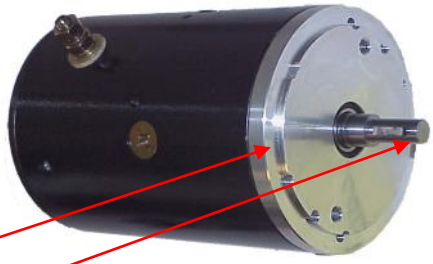
REPLACES, W7004

(APPLICATION) (MARINE)

SHAFT HAS WOODRUFF KEY SLOT

(THE RAISED RING ON THE DRIVE END FRAME IS 3.763/ 95.6mm)

(OUTER END OF THE SHAFT IS 0.434/ 11.02mm IN DIAMETER & 1.030 LONG)



12V (CW) MOTOR *WITH .625" DIA. SHAFT*

"WMS" PART NUMBER, W-7018

REPLACES, MDY7004, W7018, MDY7018, MDY-7004, MDY-7018

(APPLICATION) (IDEAL WINDLESS, MAXWELL WINCH)

("WMS" IS THE "OEM" SUPPLIER TO THE MANUFACTURER)

SHAFT HAS WOODRUFF KEY SLOT <> THE DRIVE END OF ARMATURE

SHAFT HAS 5/8 X 11 TPI THREADS W/PIN HOLE FOR LOCKING THE NUT

12V (CW) MOTOR *WITH A .625"/15.87mm DIAMETER SHAFT WITH A 3/16 BAR KEY SLOT (DBB)*

"WMS" PART NUMBER, W-6021

(SHAFT HAS BAR KEY SLOT)

(SHAFT LENGTH IS 1.5"/ 38.1mm FROM DRIVE END)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

5/16 X 18 THRU BOLTS

12V (CW) MOTOR *WITH A .625"/15.87mm DIAMETER SHAFT WITH A 3/16 BAR KEY SLOT (DBB)*

"WMS" PART NUMBER, W-6021B

(SHAFT HAS BAR KEY SLOT)

(SHAFT LENGTH IS 1.5"/ 38.1mm FROM DRIVE END)

(THE RAISED RING IS MACHINED OFF OF THE DE FACE)

5/16 X 18 THRU BOLTS

THRU BOLTS ARE 5/16 X 18

12V (CW) MOTOR *WITH 1" DIAMETER 7"/ 177.8mm)*
LONG SHAFT SLEEVE WITH SET SCREW DIMPLE HOLE

"WMS" PART NUMBER, W-6066

(APPLICATIONS) (TRUCK VIBERATOR EQUIPMENT)

THRU BOLTS ARE 5/16 X 18

SHAFT IS 1.5" LONG
WITH A SET SCREW RECESS

12V CW* (HD / DBB) *MOTOR*
WITH A .625"/ 15.87mm DIAMETER SHAFT

"WMS" PART NUMBER, W-6420

REPLACES NUMBERS, W-6020, W6420, 6031, 8076, MDT-6020
(APPLICATIONS)
(MONARCH ROAD EQUIPMENT, NU-STAR EQUIPMENT)
(THIS MOTOR IS A "HD" VERSION OF THE W-6020)
(THE OVERALL MOTOR BODY LENGTH IS 8" LONG)
(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

Mounting centers are 5.5"

12V (CW) MOTOR *WITH .625" DIA. SHAFT*

"WMS" PART NUMBER, W-6526

THIS MOTOR HAS SPECIAL FIELD COILS TO RUN AT 2000 RPM RANGE.
THE RAISED ALIGNMENT RING ON THE DE FRAME IS 3.25"/ 82.55mm) DIA.
THE SHAFT HAS A 3/16 BAR KEY SLOT AND IS 2.75"/ 69.85mm LONG.
(FOR CATTLE FEEDERS)

VENTED MOTOR WITH
INTERNAL COOLING FAN

12V (CW) VENTED MOTOR *WITH .625" DIA. SHAFT*

"WMS" PART NUMBER, W-6742

(THIS MOTOR HAS A INTERNAL COOLING FAN
AND VENT HOLES IN THE COMM END FRAME AND
THE FIELD FRAME SO IT CAN HAVE A LONGER RUN TIME)
THE SHAFT HAS A 3/16 BAR KEY SLOT AND IS 2.25"/57.15mm) LONG.
THE RAISED ALIGNMENT RING ON THE DE FRAME IS 3"/ 76.2mm DIA.

WITH OVERLOAD PROTECTION

VENTED MOTOR WITH
INTERNAL COOLING FAN

12V (CW) VENTED MOTOR *WITH .625" DIA. SHAFT*
AND "OVERLOAD" PROTECTION

"WMS" PART NUMBER, W-6745

(THIS MOTOR HAS A INTERNAL COOLING FAN AND
VENT HOLES IN THE COMM END FRAME AND THE FIELD FRAME)
THE RAISED ALIGNMENT RING ON THE DE FRAME IS 3"/ 76.2mm DIA.
THE SHAFT HAS A 3/16 BAR KEY SLOT AND IS 2.25"/ 57.15mm LONG.
(SAME AS THE W-6742 ONLY WITH OVERLOAD PROTECTION)

12V "CW" (DBB) *MOTOR WITH .625" DIA. SHAFT*

"WMS" PART NUMBER, W-6020

REPLACES, W6020, 6031, 8076, MDT-6020, MDT-6020S

(APPLICATIONS)

(MONARCH & NU-STAR EQUIPMENT)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(FOR A "HD" MOTOR USE NUMBER W-6420)

THRU BOLTS ARE 5/16 X 18

SHAFT IS 1.5"/ 38.1mm LONG

***6V* (CW) .625" DIA. BUSHING SHAFT MOTOR**

"WMS" PART NUMBER, MCL6154NR

REPLACES NUMBERS, 46-391, W-4620, MCH2132,

(APPLICATIONS) (MONARCH & NU-STAR EQUIPMENT)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(FOR A 12V MOTOR ORDER NUMBER W-6020)

THRU BOLTS ARE 5/16 X 18

SHAFT IS 1.5"/ 38.1mm LONG

12V "CW" *(DBB) MOTOR WITH .625" DIAMETER SHAFT WITH A 3/16 BAR KEY SLOT.*

"WMS" PART NUMBER, W-6027

REPLACES, W6027, 46-2480, MDT-6027

(APPLICATIONS)

(MONARCH ROAD EQUIPMENT, NU-STAR EQUIPMENT)

(THE FACE OF THE DE FRAME HAS (4) THREADED 1/4X20 HOLES)

SHAFT IS 1.625"/ 41.27mm LONG

12V "CW" *(INS / DBB)* MOTOR WITH (2) TERMINALS *.625" DIAMETER SHAFT W/A 3/16 BAR KEY SLOT*

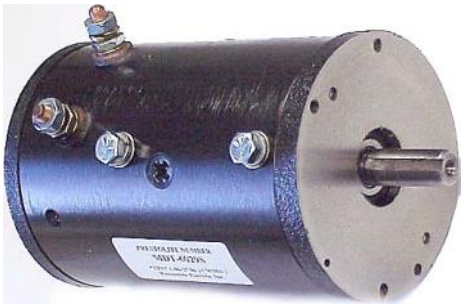
"WMS" PART NUMBER, W-6029

REPLACES, W6029, 46-3746, MDT-6029, AND MDT-6029S

(APPLICATIONS)

(MONARCH ROAD EQUIPMENT, NU-STAR EQUIPMENT)

(THE FACE OF THE DE FRAME HAS (4) THREADED 1/4X20 HOLES)



SHAFT IS 1.625"/ 41.27mm LONG

12V "CW" (DBB) *MOTOR WITH SWITCH*

"WMS" PART NUMBER, W-6595

REPLACES, W6595, LONG SHAFT W-6559

(APPLICATIONS)

(WATEROUS, MONARCH, NU-STAR EQUIPMENT etc.)

Raised ring on DE frame is 3.25"/ 82.55mm in diameter

(.625"/ 15.87mm diameter shaft is 3.5"/ 88.9mm long from drive end)

Mounting centers are 5.5"

THRU BOLTS ARE 5/16 X 18

Overall length of motor is 6.5" not including the shaft

12V " *DBB* " WITH .625"/ 15.87mm DIA. SHAFT

(FOUR FIELD COILS) (CW) ROTATION

"WMS" PART NUMBER, W-6973

(FOR SAND & CEMENT TRUCKS TO RUN VIBRATORS)

(RAISED ALINGMENT RING ON THE DE FRAME IS 3"/76.2mm)

(BAR KEY SHAFT LENGTH IS 2.75"/ 69.85mm FROM DRIVE END)

(5/16X18 THRU BOLTS ARE IN THE 3 & 9 POSITION)

THRU BOLTS ARE 5/16 X 18

Overall length of motor is 6.5" not including the shaft

12V " *DBB* " WITH .625"/ 15.87mm DIA. SHAFT

(FOUR FIELD COILS) (CW) ROTATION

"WMS" PART NUMBER, W-8839

(FOR SAND & CEMENT TRUCKS TO RUN VIBRATORS)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(BAR KEY SHAFT LENGTH IS 2.25"/ 57.15mm FROM DRIVE END)

(5/16X18 THRU BOLTS ARE IN THE 3 & 9 POSITION)

THRU BOLTS ARE 5/16 X 18

Overall length of motor is 6.5" not including the shaft

12V " *DBB* " WITH .625"/ 15.87mm DIA. SHAFT

(FOUR FIELD COILS) (CW) ROTATION

"WMS" PART NUMBER, W-8939-P

(FOR SAND & CEMENT TRUCKS TO RUN VIBRATORS)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(WOODRUFF KEY SHAFT LENGTH IS 1.75"/ 44.45mm FROM DRIVE END)

(5/16X18 THRU BOLTS ARE IN THE 3 & 9 POSITION)

THRU BOLTS ARE 5/16 X 18

Overall length of motor is 7.5" not including the shaft

12V " *DBB* " WITH .625"/ 15.87mm DIA. SHAFT

(FOUR HD FIELD COILS) (CW) ROTATION

"WMS" PART NUMBER, W-6539

(FOR SAND & CEMENT TRUCKS TO RUN VIBRATORS)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(BAR KEY SHAFT LENGTH IS 2.00"/ 50.8mm FROM DRIVE END)

(5/16X18 THRU BOLTS ARE IN THE 3 & 9 POSITION)

(FOR A "CCW" MOTOR USE NUMBER W-6545)

** *PRIMER PUMP MOTOR* **

12V (CW / DBB) MOTOR

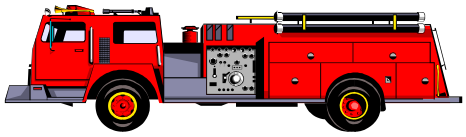
"WMS" PART NUMBER, W-6523

REPLACES, W6523, MDY-7002, MDY-7002S, 46-3562, W-6122 M-3700, 151-34950. MDY-6123, MDY6123, MDY7002

(APPLICATIONS) (DARLEY, CHAMPION PUMP, ENERGY MANUFACTURING CO., WEBSTER, WISCONSIN HYD., AMERICAN GODIVA, OIL WELL PLATFORM FIRE EQUIPMENT ETC.)

(THE RAISED RING DIAMETER IS 3"/ 76.2mm)

(THIS IS "HD" 8" LONG "DBB" VERSION OF NUMBER W-6123)



.256"/ 6.50mm Shaft slot

12V (CW) MOTOR WITH DRIVE END,

"WMS" PART NUMBER, W-6123

REPLACES NUMBERS, MDY-7002, MDY-7002S, 46-3562, W-6122, W6123, M-3700, 151-34950. MDY-6123

(APPLICATIONS) (LEE ENGINEERING LIFT) *(EARLY MODEL)*

(WISCONSIN HYDRAULICS, AMERICAN GODIVA,)

(WEBSTER ELECTRIC, HANN HYDRAULICS)

(MOTOR HAS A GROUND CABLE STUD)

(THE RAISED RING DIAMETER IS 3"/ 76.2mm)

(FOR A LONGER (7.5") "HD" DBB MOTOR WITH SWITCH USE MOTOR NUMBER W-6523)

BUSHING AT CE & DE

.256"/ 6.50mm Shaft slot

12V *(5/8" DIAMETER SHAFT WITH HOLE FOR PIN)*

(FOUR FIELD COILS) (CW) ROTATION

"WMS" PART NUMBER, W-6311

(APPLICATIONS)

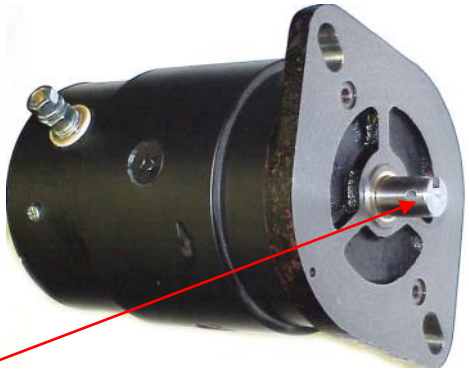
(STARTER MOTOR FOR GRAVELY TRACTORS)

REPLACES NUMBERS,

W6311, 140-064, MZ4196, 1108311, 1109311

(SHAFT LENGTH IS 1"/ 25.4mm FROM DRIVE END)

(SHAFT HAS A 0.188 DIAMETER HOLE 0.250 BACK FROM THE END)

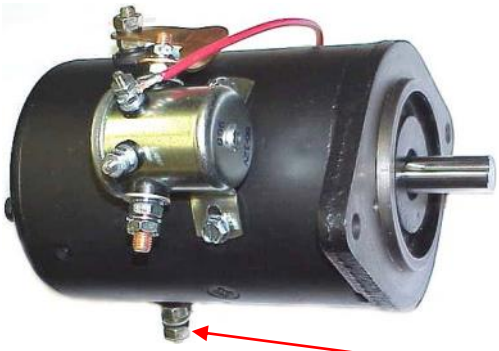


Mounting centers are 5.5”

12V (CW / DBB) “INS” GROUND *PRIMER PUMP MOTOR*
WITH (2) TERMINAL POSTS, 180 DEGREES APART

“WMS” PART NUMBER, W-6002

REPLACES, W6002, MFE-6001, MFE-6001A, MFE6002
MFE6001, MFE6001A, MFE-6002, MFE-6002A, MFE6002A
(APPLICATIONS) (HYSTER EQUIP., LEWIS-SHEPARD)
(THE RAISED RING DIAMETER ON DRIVE END IS 3.25”/ 82.55mm)
(The shaft length from DE frame flange is 1.5”/ 38.1mm)
(The lower terminal post is the “insulated” ground terminal)



12V (CW / DBB) “INS” GROUND *PRIMER PUMP MOTOR*
WITH (2) TERMINAL POSTS, 180 DEGREES APART
WITH SOLENOID SWITCH OFFSET AS SHOWN

“WMS” PART NUMBER, W-6302

REPLACES, W6302, MAY-4802, MAY-4302, MAY-4302A
(APPLICATIONS) (HYSTER EQUIP., LEWIS-SHEPARD)
(THE RAISED RING DIAMETER ON DRIVE END IS 3.25”/ 82.55mm)
(The shaft length from DE frame flange is 1.5”/ 38.1mm)
(The lower terminal post is the “insulated” ground terminal)

12V(CW) 2 POST SLOT SHA/MOTOR WITH “INS/GRD”

“WMS” PART NUMBER, W-6303

REPLACES NUMBERS,
W6303, 46-401, 985690, MAY4303, MAY4303A
(APPLICATIONS) (BAKER MATERIAL HANDLING)
(SLOT IN END OF SHAFT IS 0.155”/ 3.93mm WIDE)
(The lower terminal post is the “insulated” ground terminal)

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) *HD* (2) POST MOTOR
WITH A .625” DIA. SHAFT WITH KEY SLOT.

“WMS” PART NUMBER, W-9838B

(ARMATURE SHAFT IS 1.750”/ 44.45mm OUT FROM DE)
(ALL PURPOSE FORWARD & REVERSING SHAFT MOTOR)
(WITH REMOVABLE MOUNTING BASE PLATE)
(SHAFT HAS A WOODRUFF KEY SLOT AND PIN HOLE)

12V CW (2) HD DBB POST MOTOR *WITH A .625" DIA. SHAFT WITH WOODRUFF KEY SLOT WITH INS/GROUND*

"WMS" PART NUMBER, W-6503

REPLACES NUMBERS,
W6503, 46-2379, 46-2420, 833495, B1196601, B25674
MEJ-6101, MEJ-6102, MEJ-6103, MEJ-6104, 1196229, MFE-6001
(APPLICATIONS) (HYSTER EQUIP., LEWIS-SHEPARD)
Raised ring on DE frame is 3.25"/ 82.55mm in diameter

Mounting centers are 5.5"

12V CW (2) HD DBB POST MOTOR *WITH A .625" DIA. SHAFT WITH WOODRUFF KEY SLOT WITH INS/GROUND*

"WMS" PART NUMBER, W-6503B

REPLACES NUMBERS,
W6503B, 46-2379, 46-2420, 833495, B1196601, B25674
MEJ-6101, MEJ-6102, MEJ-6103, MEJ-6104, 1196229, MFE-6001
(APPLICATIONS) (HYSTER EQUIP., LEWIS-SHEPARD)
Raised ring on DE frame is 3.25"/ 82.55mm in diameter

SHAFT IS 1.5"/ 38.1mm LONG

12V *BI-DIRECTIONAL DBB (FORWARD & REVERSE)*
(2) TERMINAL POST MOTOR WITH
.625" DIA. SHAFT WITH WOODRUFF KEY SLOT.

"WMS" PART NUMBER, W-9238

REPLACES NUMBER, W9238, 007-03900-00
(APPLICATIONS) (MISC. WINCHS FOR BOAT LIFTS ETC.)
(THE SHAFT LENGTH FROM CE FRAME IS 1"/ 25.4mm LONG)
(THE SHAFT LENGTH FROM DE FRAME IS 1.750"/ 44.45mm LONG)
(THE SHAFT AT THE COM END IS MADE TO FIT A 3/8" SOCKET)

12V *(DBB) BI-DIRECTIONAL (FORWARD & REVERSE)*
(2) POST MOTOR *W/A 0.625" DIA. SHAFT WITH KEY SLOT*

"WMS" PART NUMBER, W-9898

(SHAFT HAS A WOODRUFF KEY SLOT AND PIN HOLE)

(APPLICATIONS)

(MISC. Marine and Trucking yard tractor trailer tug units)

(Raised ring on DE is 3.25"/ 82.55mm <> Shaft is 1.5"/ 38.1mm long)

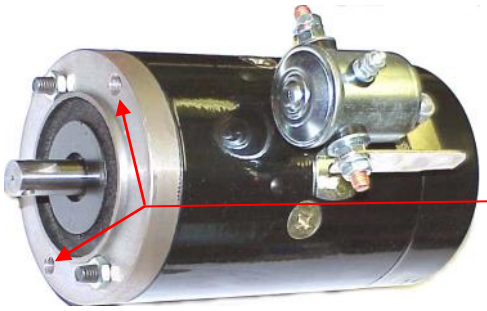
Mounting centers are 5.5"

*** DBB PRIMER PUMP MOTOR WITH SWITCH ***

12V (CW) * *MOTOR WITH .625" DIA. SHAFT*

"WMS" PART NUMBER, W-6520

REPLACES, A-1558, W6520, MDT-6025, MDY-7020,
(APPLICATIONS) (DARLEY, CHAMPION PUMP)
(FIRE TRUCKS, ENERGY MANUFACTURING CO.)
(THE RAISED RING DIAMETER ON DRIVE END IS 3")
(The overall motor body length is 8" not including the shaft)
(Shaft is 1.5"/ 38.1mm long from the flat area where the thru bolts are)

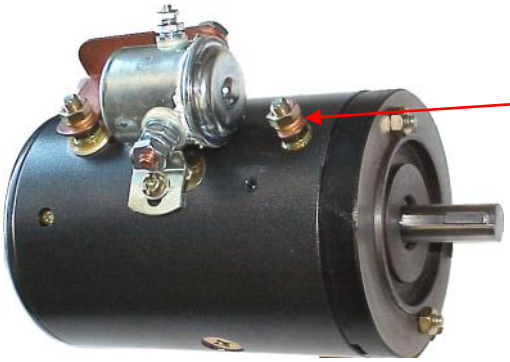


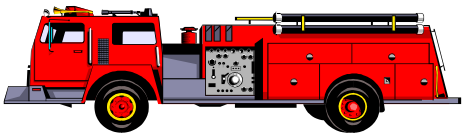
*** DBB PRIMER PUMP MOTOR WITH SWITCH ***

12V (CW) * *MOTOR WITH .625" DIA. SHAFT*

"WMS" PART NUMBER, W-6522

REPLACES , W6522, MDT-6025, MDY-7020, MDY-6127S
(APPLICATIONS) (DARLEY, CHAMPION PUMP)
(FIRE TRUCKS, ENERGY MANUFACTURING CO.)
(THE RAISED RING DIAMETER ON DRIVE END IS 3")
(MOTOR HAS TWO 3/8 X 16 HOLES IN THE DE FACE)
(The overall motor body length is 8" not including the shaft)
(Shaft is 1.5"/ 38.1mm long from the flat area where the thru bolts are)





***12V* (CW/DBB) *PRIMER PUMP MOTOR* W/ROUND DE**
COMPLETE WITH METAL STYLE SWITCH
(MOTOR HAS A GROUND CABLE STUD)

"WMS" PART NUMBER, W-7020

REPLACES NUMBERS, MDY7020, MDY6127, 46-916, 46-3566
W7020, W-6520, MDY-7020, MDY-7020A, MDY-6127S
(APPLICATIONS) (YARGER HYDRAULICS)
(W.S. DARLEY, DONNELL HYDRAULICS)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)
(FOR A "HD" DOUBLE BALL BEARING MOTOR USE W-6520)

(Shaft is 1.5"/ 38.1mm long from the flat area where the thru bolts are)
(The overall motor body length is 7" not including the shaft)

12V* (CW/DBB) *PRIMER PUMP MOTOR* WITH ROUND *DRIVE END FRAME COMPLETE WITH SWITCH

"WMS" PART NUMBER, W-7019C

REPLACES NUMBERS, 42234-00, W7019, P8812, PA-812, PA812, MCW6301

(APPLICATIONS) (W.S. DARLEY)

(Shaft is 1.375"/ 34.92mm long from the flat area where thru bolts are)

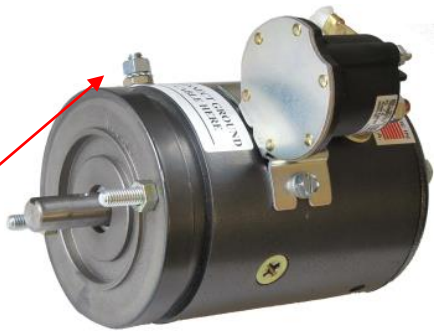
(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(The field frame on this motor is .500 shorter than the standard W-7020)

(This motor is used to replace the 10MT Delco starter conversions that are made from junk yard 10MT starter cores)

(MOTOR HAS A GROUND CABLE STUD)

Overall length of motor is 6.5" not including the shaft



12V* (CW/DBB) *PRIMER PUMP MOTOR* WITH ROUND *DRIVE END FRAME COMPLETE WITH SWITCH

"WMS" PART NUMBER, W-7019

REPLACES NUMBERS, 42234-00, W7019, P8812, PA-812, PA812

(APPLICATIONS) (YARGER & DONNELLHYDRAULICS, W.S. DARLEY)

(Shaft is 1.5"/ 38.1mm long from the flat area where the thru bolts are)

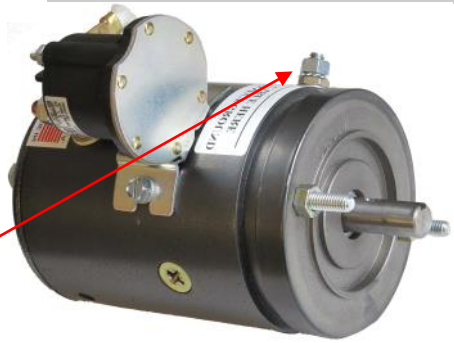
(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(The field frame on this motor is .500 shorter than the standard W-7020)

(This motor is used to replace the 10MT Delco starter conversions that are made from junk yard 10MT starter cores)

(MOTOR HAS A GROUND CABLE STUD)

Overall length of motor is 6.5" not including the shaft



***12V* (CW/DBB) *PRIMER PUMP MOTOR* W/ROUND DE COMPLETE WITH LATE STYLE SWITCH & GRD/STUD**

"WMS" PART NUMBER, W-7020D

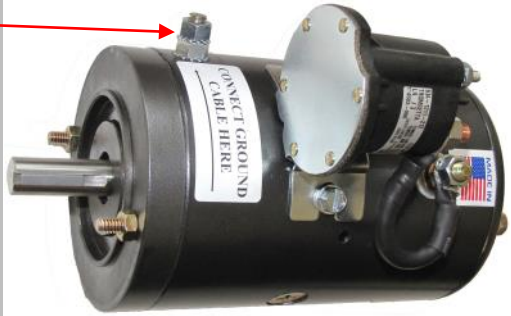
REPLACES NUMBERS, MDY7020, MDY6127, 46-916, 46-3566
W7020, W-6520, MDY-7020, MDY-7020A, MDY-6127S
(APPLICATIONS) (YARGER HYDRAULICS)
(W.S. DARLEY, DONNELL HYDRAULICS)

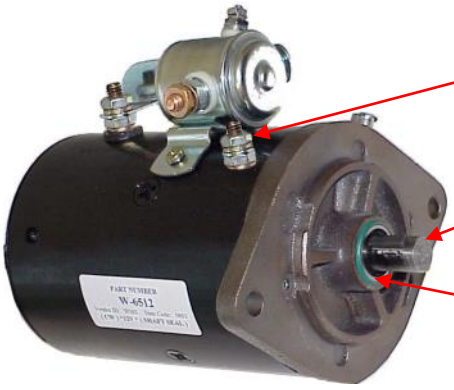
(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(FOR A "HD" DOUBLE BALL BEARING MOTOR USE W-6520)

(Shaft is 1.5"/ 38.1mm long from the flat area where the thru bolts are)

(The overall motor body length is 7" not including the shaft)





Mounting centers are 5.5”

(MOTOR HAS A GROUND CABLE STUD)

12V* (CW) *(MOTOR WITH SHAFT SEAL)

PRIMER PUMP MOTOR “COMPLETE WITH SWITCH”

(HAS KEY SLOT AND PIN HOLE THRU .625” SHAFT)

“WMS” PART NUMBER, W-6512

(THIS IS A W-6509 STYLE MOTOR WITH A BUSHING DRIVE END AND “SHAFT SEAL”)

(APPLICATIONS) (HALE PRIMER PUMP)

(POWER WHEELS EQUIP., PUREX CORP., WATEROUS)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25”/ 82.55mm)

(Shaft is 1.5”/ 38.1mm long from the flat area where the thru bolts are)

Mounting centers are 5.5”

12V* (CW) *PRIMER PUMP MOTOR WITH SWITCH

(MOTOR HAS A GROUND CABLE STUD)

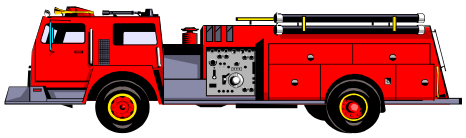
“WMS” PART NUMBER, W-6509C

(APPLICATIONS) (SAME AS THE W-6559)

(When the motor length cannot be longer than the original Ametek / Prestolite motor use number W-6509C)

(The overall length of the W-6509C motor is 7”)(Not including the shaft)

(THE W-6509C MOTOR SHAFT HAS BOTH THE WOODRUFF KEY SLOT AND THE .250 PIN HOLE THRU SHAFT)



Mounting centers are 5.5”

12V* (CW) * HD * *(DBB) PRIMER MOTOR W/SWITCH

“WMS” PART NUMBER, W-6559

REPLACES, W6559, MCL-6229, MCL-6329 ETC.

(APPLICATIONS) (HALE PRIMER PUMP)

(POWER WHEELS EQUIP., PUREX CORP., WATEROUS)

(Shaft is 1.5”/ 38.1mm) long from the flat area where the thru bolts are)

(The overall motor body length of the W-6559 is 8”)

(Armature shaft has woodruff key slot and a 0.250 pin hole)

For a 7” long motor like the Ametek motor use number W-6509C

ORIGINAL EQUIPMENT

Mounting centers are 5.5”

12V (CW) *(DBB) PRIMER PUMP MOTOR W/GRD/STUD*

“COMPLETE WITH SWITCH”

(SHAFT HAS KEY SLOT AND PIN HOLE THRU .625” SHAFT)

“WMS” PART NUMBER, W-6216

REPLACES, W6216, MUE-6216, MUE6216S, MUE-6316, MUE6316S

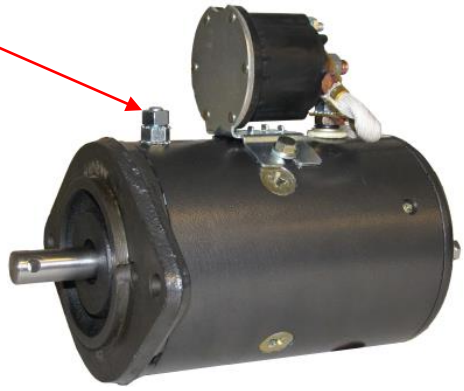
(APPLICATIONS) (AMERICAN GODIVA, HALE PRIMER PUMP)

(POWER WHEELS EQUIP., PUREX CORP., WATEROUS)

(Shaft is 1.5”/ 38.1mm long from the flat area where the thru bolts are)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25”/ 82.55mm)

(The overall length of the W-6216 motor is 7”)(Not including the shaft)



* POPULAR *

- 12V PRIMER PUMP MOTOR * HD 4FIELD COILS

12V (CW) *(DBB) PRIMER PUMP MOTOR W/GRD/STUD*

“COMPLETE WITH SWITCH”

(SHAFT HAS KEY SLOT AND PIN HOLE THRU .625” SHAFT)

“WMS” PART NUMBER, W-6307

REPLACES, W6307, MUE-6207, MUE6207S, MUE-6307, MUE6307S,

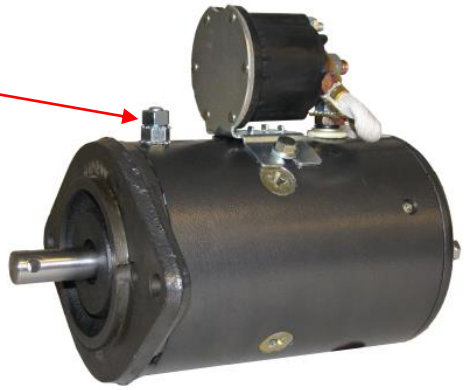
(APPLICATIONS) (HALE PRIMER PUMP)

(POWER WHEELS EQUIP., PUREX CORP., WATEROUS)

(Shaft is 1.5”/ 38.1mm long from the flat area where the thru bolts are)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25”/ 82.55mm)

(The overall length of the W-6307 motor is 7”)(Not including the shaft)



* POPULAR *

- 12V PRIMER PUMP MOTOR * STD/DUTY 2 FIELD COILS

12V (CW) * HD * *(DBB)*

PRIMER PUMP MOTOR “COMPLETE WITH SWITCH”

“WMS” PART NUMBER, W-6599

REPLACES NUMBERS, 46-2605, 46-2155, 46-2244, 200-0040-00, MCL-6225, MCL-6225A, MCL-6228, MCL-6508T, MCL-6508, 46-555, 46-557, MAY-4146, W6599, MAY-4301, MAY-4301S, MAY-4601

(APPLICATIONS) (HALE PRIMER PUMP)

(POWER WHEELS EQUIP., PUREX CORP., WATEROUS)

(FOR A MOTOR WITH THE LATE PLASTIC SWITCH USE W-6559)

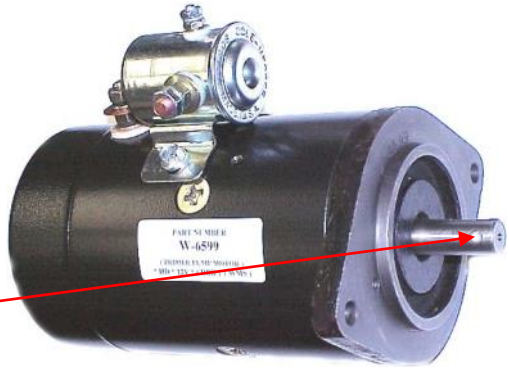
(Shaft is 1.5”/ 38.1mm) long from the flat area where the thru bolts are)

(HAS WOODRUFF KEY SLOT AND PIN HOLE THRU SHAFT)

(The raised ring diameter is 3.25”/ 82.55mm)

* VERY POPULAR “HD” *

* 12V PRIMER PUMP MOTOR *



ORIGINAL EQUIPMENT

12V (CW) *PRIMER PUMP MOTOR W/SWITCH*

THIS IS FOR FIRE TRUCK EQUIPMENT ,

"WMS" PART NUMBER, W-6410

REPLACES, V3203, W-6210, 46-4219, MUE-6210, MUE-6210S, MUE-6310

(APPLICATIONS) (WATEROUS COMPANY, WISCONSIN ENG.)

(MOTOR HAS A SLOT SHAFT ARMATURE - USE DRIVE END FRAME FROM OLD UNIT)

(MOTORS HAVE A GROUND CABLE STUD)(This motor is 6"/ 152.4mm long)

.256"/ 6.50mm Shaft slot

12V (CW / HD) *PRIMER PUMP MOTOR W/SWITCH*

THIS IS FOR FIRE TRUCK EQUIPMENT ,

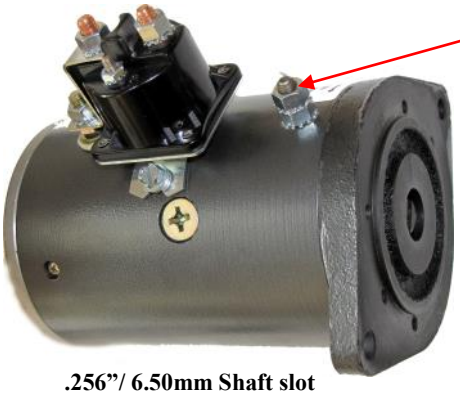
"WMS" PART NUMBER, W-6510

REPLACES, V3203, W-6210, 46-4219, MUE-6210, MUE-6210S, MUE-6310

(APPLICATIONS) (WATEROUS COMPANY, WISCONSIN ENG.)

(MOTOR HAS A SLOT SHAFT ARMATURE - USE DRIVE END FRAME FROM OLD UNIT)

(This HD unit is 7"/ 177.8mm long)



.256"/ 6.50mm Shaft slot

(MOTOR HAS A GROUND CABLE STUD)

12V (CW) 4 FIELD *(DBB)*

PRIMER PUMP MOTOR "COMPLETE WITH SWITCH"

(HAS RECESSED SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-6519

REPLACES NUMBERS, W6519, MUE-6215S, MCL-6509S,

(APPLICATIONS) (HALE PRIMER PUMPS)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25"/ 82.55mm)

(The overall length of the W-6519 motor is 7")

(For a HD "OEM" motor that is 8" long use number W-6552)

ORIGINAL EQUIPMENT

Mounting centers are 5.5"

"OEM" *12V* (CW) *(DBB)*

PRIMER PUMP MOTOR "COMPLETE WITH SWITCH"

(HAS RECESSED SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-6542

REPLACES, W6542, MCL-6509, MCL-6509S, 46-3663

(APPLICATIONS) (HALE PRIMER PUMPS) (1991 <> 2000)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25"/ 82.55mm)

(FOR A MOTOR WITH THE LATE PLASTIC SWITCH USE W-6552)

“OEM” *12V* (CW) *(DBB)*

PRIMER PUMP MOTOR “COMPLETE WITH SWITCH”

(HAS RECESSED SLOT SHAFT ARMATURE)

“WMS” PART NUMBER, W-6552

REPLACES, W6552, W-6519, ESP-12, MCL6201
MUE-6215S, 200-0041-00-0, 200-0042-00-0, ESP12, MCL-6201S

(APPLICATIONS) (HALE PRIMER PUMPS) (2000 <> 2010 +)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25”/ 82.55mm)

(The overall length of this “OEM / HD” motor is 8”)

Mounting centers are 5.5”

.256”/ 6.50mm Shaft slot

*** POPULAR “HD” OEM ***
*** 12V PRIMER PUMP MOTOR ***

“OEM” *12V* (CW) * *(DBB)*

PRIMER PUMP MOTOR “COMPLETE WITH SWITCH”

(HAS RECESSED SLOT SHAFT ARMATURE)

“WMS” PART NUMBER, W-6553

REPLACES, W6552, W-6519, ESP-12, MCL6201
MUE-6215S, 200-0041-00-0, 200-0042-00-0, ESP12, MCL-6201S

(APPLICATIONS) (HALE PRIMER PUMPS) (2007 +)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25”/ 82.55mm)

(The overall length of this “OEM / HD” motor is 8”)

Mounting centers are 5.5”

.256”/ 6.50mm Shaft slot

ORIGINAL EQUIPMENT

“OEM” *12V* (CW) * *(DBB)*

PRIMER PUMP MOTOR “COMPLETE WITH SWITCH”

(HAS RECESSED .256”/ 6.50mm SLOT SHAFT ARMATURE)

“WMS” PART NUMBER, W-6563

REPLACES, W6552, W-6519, ESP-12, MCL6201
MUE-6215S, 200-0042-00-0, 200-0043-00-0, ESP12, W-6553

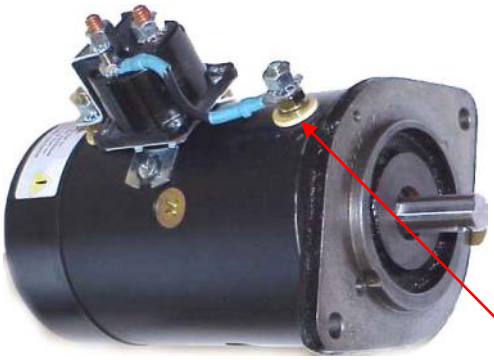
(APPLICATIONS) (HALE PRIMER PUMPS) (2010 +)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25”/ 82.55)

****(NOTE)* THIS IS THE LATEST 12V HALE DESIGN***

Mounting centers are 5.5”

*** Latest style OEM ***
*** 12V PRIMER PUMP MOTOR ***
ORIGINAL EQUIPMENT



Mounting centers are 5.5”

24V (CW/DBB) (2) POST INS/GRD *PRIMER PUMP MOTOR*

“WMS” PART NUMBER, W-6557

REPLACES, 46-2627, 46-2726, MBY4015, MBY-4009T, MBY-4015, W-6507, W6557, MHP-4007T, MHP-4009T, MHP-6203

(APPLICATIONS) (WATEROUS, HALE PRIMER PUMP)

(APPLICATIONS) (*24V* HALE PRIMER PUMPS)

(THIS IS A “INSULATED” GROUND MOTOR AND REQUIRES A GROUND CABLE TO THE TERMINAL AT DE)

(ARM/SHAFT HAS WOODRUFF KEY SLOT AND PIN HOLE)

(Shaft is 1.5”/ 38.1mm long from the flat area where the thru bolts are)

ORIGINAL EQUIPMENT

24V (CW/DBB) (2) POST INS/GRD *PRIMER PUMP MOTOR*

“WMS” PART NUMBER, W-6554

REPLACES NUMBERS, 200-0062-00-0, MHP-6103, W-6524 W6554, 46-3801, MHP-6103T, MHP-6204S

(APPLICATIONS) (*24V* HALE PRIMER PUMPS)

(THIS IS A “INSULATED” GROUND MOTOR AND REQUIRES A GROUND CABLE TO THE TERMINAL AT DE)

(Armature shaft slot is .256”/ 6.50mm wide)

(Raised alignment ring on DE frame is 3.25”/ 82.55mm)

Mounting centers are 5.5”

.256”/ 6.50mm Shaft slots

ORIGINAL EQUIPMENT

Mounting centers are 5.5”

“OEM” *24V* (CW) *PRIMER PUMP MOTOR*

“WMS” PART NUMBER, W-6560

REPLACES NUMBERS,
200-0063-00-0, ESP-24, MHP-6103T, MHP-6204S

(APPLICATIONS)

(*24V* HALE PRIMER PUMPS) (2011 +)

(“INSULATED” GROUND STYLE)

**(NOTE)* THIS IS THE LATEST 24V HALE DESIGN*

(Armature shaft slot is .256”/ 6.50mm wide)

(Raised alignment ring on DE frame is 3.25”/ 82.55mm)

WESTERN MOTORS IS A "OEM" SUPPLIER TO HALE PRODUCTS

24V (CW) PRIMER PUMP MOTOR

"WMS" PART NUMBER, W-8970

REPLACES NUMBERS, MHJ6107S, W8970, 46-3611, MHJ6107

(THIS IS A 24V VERSION OF NUMBER W-6123)

(MOTOR HAS A GROUND CABLE STUD)

(APPLICATIONS) (DARLEY, CHAMPION PUMP)

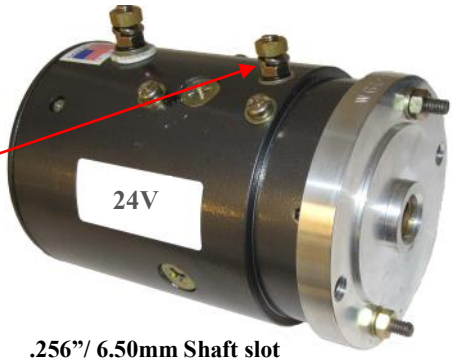
(FIRE TRUCKS, ENERGY MANUFACTURING CO.)

(OIL WELL PLATFORM FIRE EQUIPMENT ETC.)

(Raised alignment ring on DE frame is 3"/ 76.2mm)

(FOR A "HD" DBB MOTOR WITH SWITCH USE MOTOR NUMBER W-6570)

BUSHING AT CE & DE



.256"/ 6.50mm Shaft slot

24V (CW/DBB) (2) POST INS/GRD *PRIMER PUMP MOTOR*

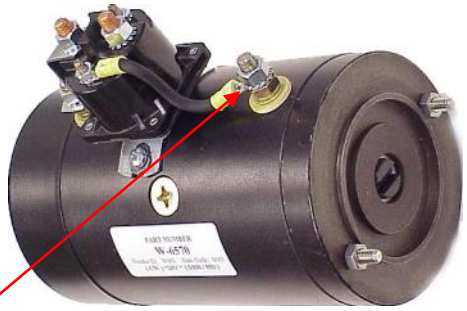
"WMS" PART NUMBER, W-6570

REPLACES NUMBERS,
MHJ6107S, W8970, 46-3611, MHJ6107

(APPLICATIONS)

(THIS IS A "HD" 7.5" LONG "DBB" INSULATED GROUND VERSION OF NUMBER W-8970)

(THIS IS A "INSULATED" GROUND MOTOR AND REQUIRES A GROUND CABLE TO THE LOWER TERMINAL)



.256"/ 6.50mm Shaft slot

24V (CW/DBB) (2) POST INS/GRD *PRIMER PUMP MOTOR*

"WMS" PART NUMBER, W-6514

REPLACES NUMBERS, W6514, 46-871, W-8814, MBY4015

(APPLICATIONS) (DARLEY, CHAMPION PUMP)

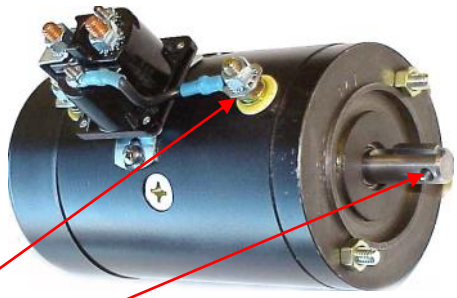
(FIRE TRUCKS, ENERGY MANUFACTURING CO.)

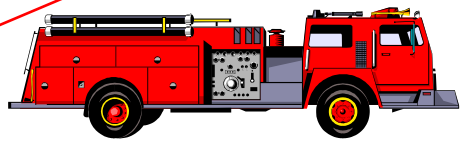
(OIL WELL PLATFORM FIRE EQUIPMENT)

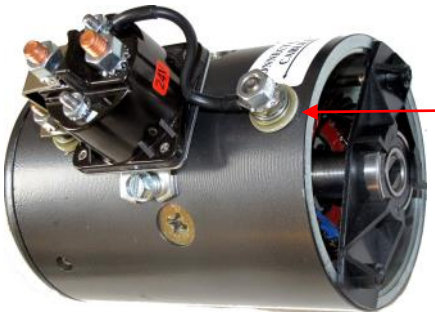
(THE RAISED RING DIAMETER ON DRIVE END IS 3" (76.2mm)

(THIS IS A "INSULATED" GROUND MOTOR AND REQUIRES A GROUND CABLE TO THE TERMINAL AT DE)

(Shaft is 1.5"/ 38.1mm long from the flat area where the thru bolts are)







.256"/ 6.50mm Shaft slot

24V (CW) "DBB" *PRIMER PUMP MOTOR W/SWITCH*

(MOTOR HAS A "INSULATED GROUND" TERMINAL POST)

THIS IS USED ON FIRE TRUCK EQUIPMENT ,

"WMS" PART NUMBER, W-6418

REPLACES NUMBERS, MHP6201, EQ-36107, V3300, MUW6302

(APPLICATIONS) (WATEROUS COMPANY, WISCONSIN ENG.)

(MOTOR HAS A SLOT SHAFT ARMATURE - USE DRIVE END FRAME FROM OLD UNIT)

(MOTOR HAS A GROUND CABLE STUD)

24V (CW/DBB) *PRIMER PUMP MOTOR* WITH ROUND

DRIVE END FRAME COMPLETE WITH SWITCH

"WMS" PART NUMBER, W-8814C

REPLACES NUMBERS, W-8814, W8814C, W8814, MUF6301, 4223500

(APPLICATIONS) (W.S. DARLEY)

(Shaft is 1.375"/ 34.92mm long from the flat area where thru bolts are)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

24V (CW) *PRIMER PUMP MOTOR WITH SWITCH*

(MOTOR HAS A GROUND CABLE STUD)

"WMS" PART NUMBER, W-6507

(The overall length of the W-6507 motor is 7")(Not including the shaft)

(THE W-6507 MOTOR SHAFT HAS BOTH THE WOODRUFF KEY SLOT AND THE .250 PIN HOLE THRU SHAFT)

(FOR A HD / DBB "INS/GRD" VERSION USE NUMBER W-6557)

(Shaft is 1.5"/ 38.1mm) long from the flat area where the thru bolts are)

Mounting centers are 5.5"

24V (CW) *PRIMER PUMP MOTOR*

(FOR FIRE TRUCK EQUIPMENT)

"WMS" PART NUMBER, W-6555

REPLACES, 18000-056, 18000-0560, 18000-0561

W6555, 18000-05610, 7M0080, 18000056

REPLACEMENT FOR 24V NIPPONDENSO MOTOR

(APPLICATIONS) (*24V* PRIMER PUMPS)

(Raised alignment ring diameter is 1.770"/ 44.95mm)

.256"/ 6.50mm Shaft slot

24V* (CW)** ***PRIMER PUMP MOTOR

(MOTOR HAS A 0.625 DIAMETER SHAFT W/WOODRUFF KEY)

THIS IS USED ON FIRE TRUCK EQUIPMENT & PRIMER PUMPS

"WMS" <u>PART NUMBER, MBY4015</u>

REPLACES NUMBERS, MBY4015S, 46-871, MBY4015T, MBY-4015

(APPLICATIONS) (OLDER WATEROUS and HALE PRIMER PUMPS)

(Shaft is 1.5"/ 38.1mm) long from the flat area where the thru bolts are)

Mounting centers are 5.5"

24V ***(BI-DIRECTIONAL) "DBB"*** **(3 POST) MOTOR**

WITH A .625" DIA. SHAFT WITH .187" BAR KEY SLOT

"WMS" <u>PART NUMBER, W-6326</u>

REPLACES NUMBERS, (W6325, 5048, FR24, SR24, SR-24)

(APPLICATIONS) (CRANES, LIFT BOOM ARMS, ETC.)

(FOR A *12V* VERSION USE "WMS" NUMBER W-8842)

THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm

(For a motor without the mounting base use number W-6324)

"VERY" POPULAR MOTOR

12V "CCW" *(DBB)*

"WMS" PART NUMBER, W-9116

REPLACES NUMBERS, 46-4036, MBJ-6002, MBJ-6002A, MBJ-6002S W9116, 46-3627, MBJ-4118, MBJ-4418, MBJ6001A, W-8916, AES-27

(APPLICATIONS)

(OIL WELL COMPRESSOR STARTING MOTOR, ETC.)

WITH THRU BOLTS AT THE 3 & 9 POSITION.

(.750"/ 19.05mm DIA. SHAFT)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(THE SHAFT LENGTH FROM DE FRAME IS 1.75"/ 44.45mm LONG)

12V "CCW" SHAFT MOTOR W/ .625" DIA. SHAFT

(THRU BOLTS ARE IN THE 3 & 9 POSITION)

"WMS" PART NUMBER, W-6078

REPLACES, 46-4151, W6078, MEG-7002, MEG-6201, MEG-6201S

(APPLICATIONS) (MY-D HAN-D MANUFACTURING CO.)

(SPEED KING MANUFACTURING CO.)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(THE SHAFT LENGTH FROM DE FRAME IS 1.5"/ 38.1mm) LONG)

(Shaft has a .188"/ 4.77mm diameter roll pin hole .850"/ 21.59mm from end of shaft)

(FOR CW ROTATION USE NUMBER W-6076)

Mounting centers are 5.5"

12V "DBB" With .625"/15.87mm diameter shaft

(FOUR FIELD COILS) (CCW) ROTATION

"WMS" PART NUMBER, W-6593

(APPLICATIONS)

(FOR SAND & CEMENT TRUCKS TO RUN VIBRATORS)
(AND MANY OTHER MISCELLANEOUS APPLICATIONS)

(SHAFT LENGTH IS 2.75"/ 69.85mm FROM DRIVE END)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25"/ 82.55mm)

12V *HD* "CCW" *(DBB) MOTOR*

WITH .625" DIA. SHAFT WITH A 3/16 BAR KEY SLOT

"WMS" PART NUMBER, W-6638

(APPLICATIONS)

"MISCELLANEOUS" PUMP AND WINCH DRIVES

(SHAFT LENGTH IS 2"/ 50.8mm FROM DRIVE END)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25"/ 82.55mm)

CENTER TO CENTER ON THE DE FRAME MOUNTING HOLES IS 5.5"/ 139.7mm

12V "CCW" MOTOR *WITH A .625" DIA. SHAFT WITH BAR KEY SLOT (DBB)*

"WMS" PART NUMBER, W-6930

(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)

(SHAFT LENGTH IS 2.75"/69.85mm FROM DRIVE END W/A 3/16 SLOT)

(MOTOR HAS A 56C DE FRAME)

(FOR A "CW" MOTOR USE NUMBER W-6932)

56C FRAME

24V "CCW" MOTOR *WITH A .625" DIA. SHAFT WITH BAR KEY SLOT (DBB)*

"WMS" PART NUMBER, W-6924

(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)

(SHAFT LENGTH IS 2.125"/ 53.97mm FROM DRIVE END W/A 3/16 SLOT)

(MOTOR HAS A 56C DE FRAME & INS / GRD.)

(FOR A "CW" MOTOR USE NUMBER W-6922)

56C FRAME

12V *(DBB) BI-DIRECTIONAL (FORWARD & REVERSE)* (2) POST MOTOR *WITH A .625" DIA. SHAFT WITH WOODRUFF KEY SLOT.*

"WMS" PART NUMBER, W-6980

(THIS IS A W-8938-P WITH A 56C DE FRAME)

(THE SHAFT LENGTH FROM DE FRAME IS 1.750"/ 44.45mm LONG)

ALSO AVAILABLE WITH A BAR KEY SHAFT THAT IS 2.75"/ 69.85mm OUT FROM THE DE FRAME, MOTOR NUMBER W-6982

56C FRAME

12V *(DBB) BI-DIRECTIONAL (FORWARD & REVERSE)* (3) POST "HD" MOTOR *WITH A .625" DIA. SHAFT WITH A 3/16 BAR KEY SLOT.*

(THE OFFSET POST IS THE INSULATED GROUND)

"WMS" PART NUMBER, W-8930B

REPLACES, W8930, W8930B, A3614-1264-1-560, M-2400, W-8930
(APPLICATIONS) (PACIFIC SCIENTIFIC, APPLIED MOTORS)

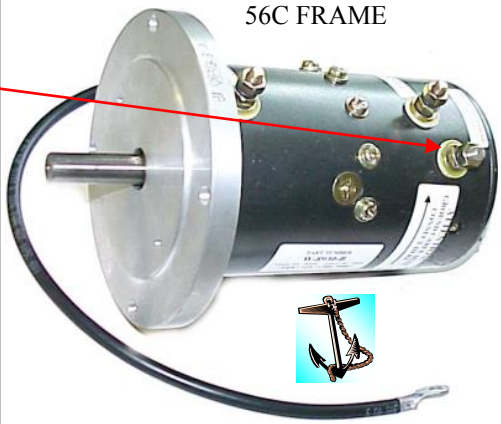
(LECTRODYNE LOBSTER POT HAULER)
(ANCHOR LIFTS, ETC.)

(THIS IS A "INSULATED" GROUND MOTOR AND COMES COMPLETE WITH A GROUNDING CABLE AS SHOWN)

(SHAFT LENGTH IS 2."/ 50.8mm FROM DRIVE END W/A 3/16 SLOT)

(FOR A PERMANENT MAGNET MOTOR USE W4BC-1602)

56C FRAME



2HP 180 AMPS

SHAFT IS 1.625” LONG * 3/16 SLOT

12V* “CCW” (DBB)** ***MOTOR with .625” Diameter shaft

“WMS” <u>PART NUMBER, W-6028</u>

REPLACES, MDT-6026W6028, 46-2216, MDT-6028,

(APPLICATIONS) (SMITH ROLES EQ., CATTLE FEEDER EQ.)

(THE RAISED RING DIAMETER ON DRIVE END IS 3”/ 76.2mm)

SHAFT IS 1.625” LONG * 3/16 SLOT

12V* “CCW” (DBB)** ***MOTOR WITH .625” SHAFT

“WMS” <u>PART NUMBER, W-6228</u>

REPLACES, MHN6201, 46-2100, MUF6201, MDT-6042, MUF6302

(CATTLE CAKE FEEDER EQUIPMENT / 1400 to 1600 RPM)

(<u>Shaft is 1.625”/ 41.275mm long</u> with bar key slot)

(Special slow rpm motor for cattle feed equipment)

(THE RAISED RING DIAMETER ON DRIVE END IS 3”/ 76.2mm)

(For a “CW” rotation motor use number W-6227)

SHAFT IS 2.0” LONG * 3/16 SLOT

***12V* “CCW” DBB (HD SHAFT MOTOR)**

WITH A 3/16 BAR KEY SLOT (.625” DIA./SHAFT / 2” LONG)

“WMS” <u>PART NUMBER, W-7028</u>

(APPLICATIONS) (LONGER **HD* VERSION OF W-6028)*

(SMITH ROLES EQUIPMENT, CATTLE FEEDER EQUIP.)

(THIS IS A HIGH RPM MOTOR & IS 7.5” LONG)

(THE RAISED RING DIAMETER ON DRIVE END IS 3”/ 76.2mm)

***12V* “CCW” .625” DIA. / 2.75” SHAFT MOTOR W/BASE**

“WMS” <u>PART NUMBER, W-6898</u>

(APPLICATIONS) CATTLE FEEDER QUIP.,

HOSTETLER EQUIP., KKVS CATTLE FEEDER EQUIP.

(For reference only <> “Proprietary” to KKVS <> must buy from KKVS)

(NEW "OEM" 24V MEYER "CCW/DBB" PLOW MOTOR)

"WMS" PART NUMBER, W-8024D

REPLACES, 0551047, 15338, M0551047, M0551047A

(THIS IS A 24V VERSION OF A W-8032D)

(MOTOR HAS 1/4 X 20 THRU BOLTS & A 3/16" SLOT)

(*NEW* NOW WITH GROUNDING POST ON THE CE FRAME)

THIS MOTOR HAS A GROUND TERMINAL AT THE COMMUTATOR, IT DOES NOT REQUIRE A GROUND WIRE CONNECTED TO IT BUT IS THERE BY CUSTOMER REQUEST & CAN BE USED TO INSURE BEST MOTOR GROUND.

(WMS IS A "OEM" SUPPLIER TO MEYER PRODUCTS)

ORIGINAL EQUIPMENT

*** NEW STYLE WITH***
BALL BEARING DE FRAME

ARMATURE SLOT SIZE
IS 3/16"/ 0.1875 / 4.76mm

(NEW STYLE WITH BALL BEARING FRAMES)

(CCW) *24V* (3") ***PM MOTOR***

"WMS" PART NUMBER, W-8038

REPLACES NUMBERS, (THIS IS A 24V VERSION OF A W-8031)

(MOTOR HAS 1/4 X 20 THRU BOLTS)

(*NEW* NOW WITH GROUNDING POST ON THE CE FRAME)

THIS MOTOR HAS A GROUND TERMINAL AT THE COMMUTATOR, IT DOES NOT REQUIRE A GROUND WIRE CONNECTED TO IT BUT IS THERE BY CUSTOMER REQUEST & CAN BE USED TO INSURE BEST MOTOR GROUND

ARMATURE SLOT SIZE
IS 1/4"/ 0.256 / 6.50mm

(NEW STYLE WITH BALL BEARING DE FRAME)

(F & R) *24V* (3") ***PM MOTOR***

"WMS" PART NUMBER, W-8039

REPLACES NUMBERS, MZG4001, W8039, W-6734, 56734

BI-DIRECTIONAL OR INSULATED GROUND

(MOTOR HAS 1/4 X 20 THRU BOLTS)

ARMATURE SLOT SIZE
IS 1/4"/ 0.256 / 6.50mm

*** 24V *** ***(CW)*** **(2) POST MOTOR*SLOT SHAFT MOTOR***

"WMS" PART NUMBER, W-8042

REPLACES NUMBERS, W8042, MF4303, 11.212.968, MF-4303

(APPLICATIONS) (SPX, FENNER & MONARCH)

(RAISED ALINGMENT RING DIAMETER IS 40.0mm)

(ARMATURE SLOT IS .156"/ 3.96mm)

5mm METRIC THRU BOLTS

* 12V * *(CCW / DBB)* (1) POST SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-3228

REPLACES NUMBERS,
W3228, W-3203, 3228NHM001-1-00, 32915, M-268-0114

(APPLICATIONS) (MONARCH / BUCHER HYDRAULICS)

(Original motor has the terminals out the sides)
(The W-3228 motor has the terminals out the back of the CE frame)

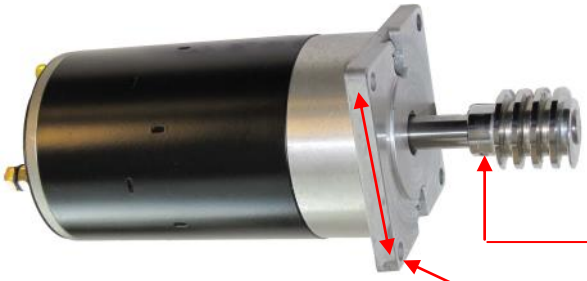
* 12V * *(F&R / DBB)* (2) POST TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8061

REPLACES NUMBERS,
W8061, SW801-006A, 90-33294, 716727

(APPLICATIONS) (POWER DRIVE WINCH)

(TANG SHAFT IS RECESSED INTO THE NEEDLE BEARING)
(SHAFT DIA. IS .520" & THE TANG AREA IS .170" WIDE & .205" DEEP)



* 12V * *(F&R)* (2) POST SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8069

REPLACES NUMBERS, W8069, 3469-201, 3469201

(APPLICATIONS)
(FIRE DEPARTMENT NOZZLE POINTING EQUIPMENT)

(MOTOR HAS A 0.125" HOLE THRU THE SHAFT FOR THE GEAR)
(THE WORM GEAR IS FOR REFERENCE ONLY AND IS "NOT" INCLUDED WITH THE MOTOR, MUST USE THE OLD GEAR OVER)
(The DE frame center to center mount holes are 2.625"apart)

* 12V * *(F&R)* (2) POST SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8075D

REPLACES NUMBERS, W8075, W8075D,
12705UB4A, M12705, M12705UB4A, M12705UB1A

(APPLICATIONS) (COMEUP WINCH)

(SHAFT DIAMETER IS 0.625")
(THE SHAFT SLOT IS 0.200" WIDE)
(WMS DE FRAME HAS A SHAFT/SEAL)
(DIAMETER OF ALINGMENT RING IS 2")

* 12V * *(F & R)* (2) POST 3" PM MOTOR

"WMS" PART NUMBER, W-AT120

REPLACES FASCO NUMBERS, WAT120, AT120, 63179-629

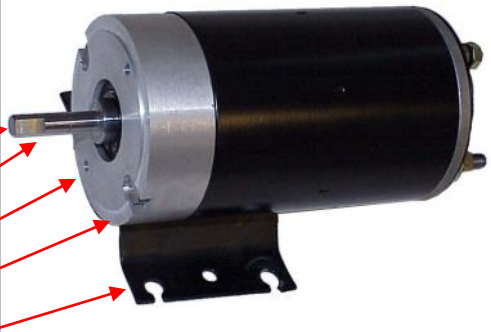
(Shaft diameter is 0.315"/ 8.01mm)

(Shaft length is 1.290"/ 32.77mm with a flat area for set screw)

(DE frame has two 10/32" threaded holes 2.312"/ 58.72mm)

(Raised alignment ring on DE frame is 2.625"/ 66.68mm)

(Need the old motor for the base under the magnet frame)



Terminals are 7/8" long & come out the back of the CE frame

* 24V * *(F & R)* (2) POST 3" PM MOTOR

"WMS" PART NUMBER, W-AT240

REPLACES FASCO NUMBERS, WAT240, AT240, 65179-621

(Shaft diameter is 0.315"/ 8.01mm)

(Shaft length is 1.290"/ 32.77mm with a flat area for set screw)

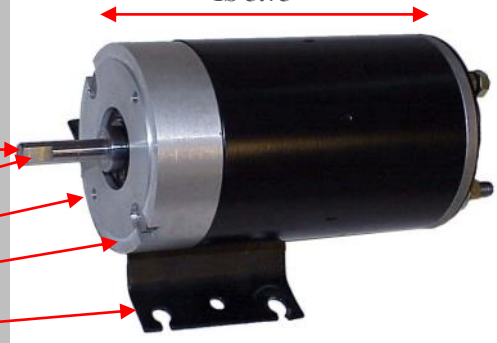
(DE frame has two 10/32" threaded holes 2.312"/ 58.72mm)

(Raised alignment ring on DE frame is 2.625"/ 66.68mm)

(Need the old motor for the base under the magnet frame)

(For a 12V motor use number W-AT120)

MOTOR BODY LENGTH IS 5.75"



* 12V * *(CCW / DBB)* (2) POST SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-73462

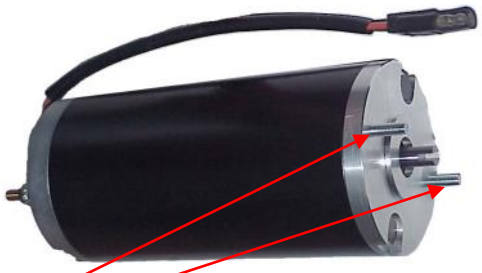
REPLACES NUMBERS, W73462, 73462-400, PV26169Q, PV-26169Q

(APPLICATIONS) (POLARIS RANGER PLOW)

(RAISED ALIGNMENT RING IS 1.312" IN DIAMETER)

(SHAFT DIAMETER IS 0.312" WITH A 0.094 SLOT WIDTH)

(DRIVE END FRAME HAS TWO 10/32 THREADED MOUNTING STUDS THAT ARE 0.500 OUT FROM THE DE AND ON 2.312 CENTERS)



(Original United Tech)

* 12V * *(CCW)* 3" PM MOTOR W/THREADED SHAFT

"WMS" PART NUMBER, W-8809

(APPLICATIONS) (MISC./ WINCHES ETC.)

(REPLACES NUMBERS,
W8809, MO551069A, 551069A)

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

Shaft diameter is .520"/ 13.20mm, the flat area is .377"/9.575mm wide & .190"/4.826mm deep

1/4 x 20 threaded shaft

*** 12V * *(CCW / DBB)* (1) POST SLOT SHAFT MOTOR W/GRD.**

"WMS" PART NUMBER, W-8053D

REPLACES, W8053, 08053, MH0053, P33939, MH08053, 2590112, M2590112

(APPLICATIONS) (MONARCH / BUCHER HYDRAULICS)

THIS MOTOR HAS A GROUND TERMINAL AT THE COMMUTATOR, IT DOES NOT REQUIRE A GROUND WIRE CONNECTED TO IT BUT IS THERE BY CUSTOMER REQUEST & CAN BE USED TO INSURE THE BEST MOTOR GROUND

(METRIC THRU BOLTS ARE 5mm) (ARMATURE HAS A .256"/6.50mm SLOT)

*** 24V * *(CCW)* (2) POST MOTOR**

(TWO TERMINAL POST) SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-8051

REPLACES NUMBERS, W8051, M8051, 08051

(APPLICATIONS) (MONARCH / BUCHER HYDRAULICS)

(METRIC THRU BOLTS ARE 5mm) (ARMATURE HAS A .256"/6.50mm SLOT)

8" LONG CASE

*** 12V * *(F & R)* (2) POST MOTOR WITH BRAKE**

(TWO TERMINAL POST) TARP COVER MOTOR

"WMS" PART NUMBER, W-8003

REPLACES, W8003, 3020NBM002100, 3020NBM002-1-00

RR101S, RR101SB, RR101SC, RR101SD, 1012, JL-027-00

(APPLICATIONS)

(DUMORE TARP MOTOR, JOHNSON ROLL RITE, ROLL RITE EQUIP.)

(The shaft diameter is .3125"/ 7.9375mm & has a .125"/3.175mm roll pin hole)

(ARMATURE SHAFT IS 2.75"/ 69.85mm OUT FROM THE DRIVE END FRAME)

(FOR A MOTOR WITHOUT THE BRAKE AT THE CE USE W-8803)

*** 12V * *(F & R)* (2) POST MOTOR *(Roll Rite Equip)***

(FORWARD & REVERSE) TARP COVER MOTOR

"WMS" PART NUMBER, W-8803

REPLACES, W8803, N980105495, 9B0105495, 980105495

1031, PV-2R420, LPL-0006, 101209888, 021007, 04646, 01873

(APPLICATIONS) (ASPHALT TRUCK TARP COVER MOTOR)

(The shaft diameter is .3125"/ 7.973mm & has a .125"/ 3.175mm pin hole)

(FOR A MOTOR WITH THE BRAKE AT THE CE USE W-8003)

* 12V * *(F & R) DBB* (2) POST MOTOR

(FORWARD & REVERSE) TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8057L

REPLACES NUMBERS, W8057, W8057L, 65532-A2

(APPLICATIONS) (3" WARN WINCH MOTORS) (1 HP)

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(Shaft diameter is .520"/ 13.20mm <> Flat to flat width is .380"/ 9.652mm wide)

(Shaft length from the end of the drive end frame to the end of the shaft is 0.910"/23.11mm)

(The I.D. of the end frame mount area is 2.925"/74.295mm)

Terminals are 7/8" long & come out the back of the CE frame

MOTOR BODY LENGTH IS 5.75"

USE'S 5mm THRU BOLTS

* 12V * *(F & R) DBB* (2) POST MOTOR

(FORWARD & REVERSE) TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8092D

REPLACES NUMBERS, W8092B, W-8092, W8092, 21592, 21594

(APPLICATIONS) (3" WARN WINCH MOTORS) (1 HP)

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(Shaft diameter is .520"/ 13.20mm <> Flat to flat width is .380"/ 9.652mm wide)

(SHAFT LENGTH FROM THE END OF THE DRIVE END FRAME TO THE END OF SHAFT PAST THE SNAP RING GROOVE IS 0.900"/ 22.86mm)

Terminals are 7/8" long & come out the back of the CE frame

MOTOR BODY LENGTH IS 5.75"

USE'S 1/4 X 20 THRU BOLTS

* 12V * *(F & R) DBB* (2) POST MOTOR

(FORWARD & REVERSE) TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8804D

REP. W8804B, 106040, 106-040, W8804, 13880, 25311, 4348828M030MM

(APPLICATIONS) (3" WARN WINCH MOTORS)

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(Shaft diameter is .520"/ 13.20mm <> Flat to flat width is .380"/ 9.652mm wide)

(SHAFT LENGTH FROM THE END OF THE DRIVE END FRAME TO THE END OF SHAFT PAST THE SNAP RING GROOVE IS 1.270"/ 32.25mm)

Terminals are 7/8" long & come out the back of the CE frame

MOTOR BODY LENGTH IS 5.75"

USE'S 1/4 X 20 THRU BOLTS

* 12V * *(F & R) DBB* (2) POST MOTOR

(FORWARD & REVERSE) TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8841N

REPLACES, W8841N, F000MM0805, 458041, 458109

(APPLICATIONS) (3" RAMSEY WINCH MOTORS)

FOR REP 5000 & REP 6000 RAMSEY WINCHES

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(Shaft diameter is .520"/ 13.20mm <> Flat to flat width is .380"/ 9.652mm wide)

(SHAFT LENGTH FROM THE END OF THE DRIVE END FRAME TO THE END OF SHAFT IS 1.600"/ 40.64mm)

Terminals are 7/8" long & come out the back of the CE frame

MOTOR BODY LENGTH IS 5.75"

USE'S 1/4 X 20 THRU BOLTS

Has a 9 spline shaft

* 12V * (2) POST MOTOR

(TWO TERMINAL POST) NINE SPLINE MOTOR (.8KW)

"WMS" PART NUMBER, W-8046

REPLACES NUMBERS, 11.216.187, W8046, MF-4046, AME1701

(APPLICATIONS)

(FENNER FLUID POWER, PRIME-TRAK, PRIME MOVER EQUIP.)

Has a 9 spline shaft

* 24V * (2) POST MOTOR

(TWO TERMINAL POST) NINE SPLINE MOTOR (.8KW)

"WMS" PART NUMBER, W-8037

REPLACES, IM-0247, 302871000, AME1795, W8037, MF-4047

(APPLICATIONS)

(SPX, FENNER FLUID POWER, PRIME-TRAK, PRIME MOVER EQUIP.)

The W-8090 & W-8091 drive end frames have 4 M6X1 threaded holes

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Motor length from terminals to Face of DE frame is 6.125"/155.58mm

* 24V * *(F & R)* (2) POST MOTOR W/KEY SLOT

(This Std./duty motor has two 6mm terminal posts) (.8KW)

"WMS" PART NUMBER, W-8090

REPLACES, W8090, 65579, 97G279487, 978279487

(SHAFT DIAMETER IS 0.433"/ 11.00mm AND THE LENGTH FROM THE DE MOUNTING AREA IS 1.165"/ 29.59mm)

Raised ring diameter on the drive end frame is 1.574"/ 39.98mm

The W-8091HD drive end frame has 4 M6X1 threaded holes

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Motor length from terminals to Face of DE frame is 7.0"/177.8mm

* 12V * *(F & R)* (2) POST MOTOR W/KEY SLOT

(This Std./duty motor has two 6mm terminal posts) (.8KW)

"WMS" PART NUMBER, W-8091

REPLACES, 530635, W8091, 438000008, 4704-5949, 65579-053

(SHAFT DIAMETER IS 0.433"/ 11.00mm AND THE LENGTH FROM THE DE MOUNTING AREA IS 1.165"/ 29.59mm)

Raised ring diameter on the drive end frame is 1.574"/ 39.98mm

* 12V * *(F & R)* (2) POST MOTOR W/KEY SLOT

(This HD motor has two 5/16 X 18 terminal posts) (1.2KW)

"WMS" PART NUMBER, W-8091HD

REPLACES NUMBERS, 530635, W8091, 438000008, 4704-5949

(SHAFT DIAMETER IS 0.433"/ 11.00mm AND THE LENGTH FROM THE DE MOUNTING AREA IS 1.165"/ 29.59mm)

Raised ring diameter on the drive end frame is 1.574"/ 39.98mm

*** 12V * *(INS)* (2) POST MOTOR WITH REAR POSTS**

EXTENDED SLOT SHAFT MOTOR (.8KW)

"WMS" PART NUMBER, W-8077

(APPLICATIONS) (MISC. EQUIPMENT)

(ARMATURE SLOT IS .1875"/ 4.762mm (MOTOR HAS 1/4 X 20 THRU BOLTS)

ARMATURE SLOT SIZE
IS 3/16"/ 0.1875 / 4.76mm

*** 12V * *(INS)* (2) POST MOTOR WITH SIDE POSTS**

EXTENDED SLOT SHAFT MOTOR (.8KW)

"WMS" PART NUMBER, W-8078

(APPLICATIONS) (MISC. EQUIPMENT)

(ARMATURE SLOT IS .1875"/ 4.762mm (MOTOR HAS 1/4 X 20 THRU BOLTS)

ARMATURE SLOT SIZE
IS 3/16"/ 0.1875 / 4.76mm

(NEW STYLE WITH BALL BEARING FRAMES)

(F & R) *12V* (3") *PERMANENT MAGNET*

"WMS" PART NUMBER, W-8010

REPLACES NUMBERS, W8910, W8010, W-8910

BI-DIRECTIONAL OR INSULATED GROUND

(MOTOR HAS 1/4 X 20 THRU BOLTS)

ARMATURE SLOT SIZE
IS 1/4"/ 0.256 / 6.50mm

(NEW STYLE WITH BALL BEARING FRAMES)

(CW) *12V* (3") *PERMANENT MAGNET*

"WMS" PART NUMBER, W-8011

This is a CW version of the W-8032B

(MOTOR HAS 1/4 X 20 THRU BOLTS)

ARMATURE SLOT SIZE
IS 3/16"/ 0.1875 / 4.76mm

*** 12V * *(F & R)* (2) POST 3" PM MOTOR**

(Note: this HD motor is 6.25" long / original motor is 5" long)

"WMS" PART NUMBER, W-06106

REPLACES, W06106, 1225542C, 867-97-1163-0062, 9711630062, 1225542, 8679711630062, 97-1163-0062, 06106, (This motor is 6.25" long)

(FOR CURTIS & SNOW X SALT SPREADERS)

(For a 5" long motor the same length as the original use W-8420)

Armature slot size is 0.100

*** VERY POPULAR F & R ***
12V TANG SHAFT MOTOR

The W-8023D motor has 1/4 x 20 thru bolts

(NEW STYLE 3" PM DBB MOTOR)

*** 12V * *(F & R)* (2) POST TANG SHAFT MOTOR**

"WMS" PART NUMBER, W-8023D

REPLACES, W8023, 1110, 1307, 1646, 10763N, 430-22015

(APPLICATIONS) (3" SUPERWINCH MOTORS)

(FOR WINCHES AND TARP COVERS FOR TRUCKS)

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(The flat tang area is .170" /4.31mm wide & .205"/5.20mm deep)

(THE SHAFT DIAMETER IS .520"/ 13.20mm)

WITH THE ARMATURE IN TO THE CORRECT POSITION

THE HEIGHT OF THE SHAFT TO THE END OF CASE IS .640"/16.25mm

MOTOR BODY LENGTH
IS 5.75"

The W-8026 has 6MM metric thru bolts

*** 12V * *(F & R)* (2) POST 3" PM TANG SHAFT MOTOR**

"WMS" PART NUMBER, W-8026D

REPLACES, W8026, ETC15000, 430-22016, 2601, HS2600, GHS-2601, GHS2601

(APPLICATIONS) (HARP TARPS)

(FOR HT-90 WINCHES AND TARP COVERS FOR TRUCKS)

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(SHAFT DIA. IS .500"/ 12.7MM) & FLAT AREA IS .170" WIDE & .250" DEEP)

THE HEIGHT OF THE SHAFT TO THE END OF CASE IS .640"/ 16.25mm

The W-8028D motor has 1/4 x 20 thru bolts

Terminals are 7/8" long & come out the back of the CE frame

(NEW STYLE 3" PM DBB MOTOR)

*** 12V * *(F & R)* (2) POST TANG SHAFT MOTOR**

"WMS" PART NUMBER, W-8028D

REPLACES NUMBER, W8028, SW801-008A, 1113, 1113A, 19720, SW801-005C, SW801-008A, 716627, 90-33295, 90-33276 ETC.

(APPLICATIONS) (3" SUPERWINCH EX1 MOTORS)

(FOR WINCHES AND TILT CABS FOR TRUCKS)

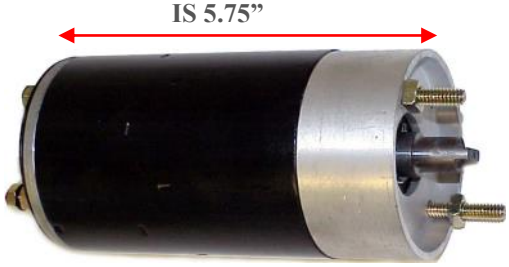
(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(SHAFT DIA. IS .520"/ 13.20mm & FLAT AREA IS .170" WIDE & .205" DEEP)

WITH THE ARMATURE IN TO THE CORRECT POSITION

THE HEIGHT OF THE SHAFT TO THE END OF CASE IS .490"/12.44mm

MOTOR BODY LENGTH
IS 5.75"



The W-8030D motor has 1/4 x 20 thru bolts

(NEW STYLE 3" PM DBB MOTOR)

*** 12V * *(F & R)* (2) POST TANG SHAFT MOTOR**

(ARMATURE SHAFT DIAMETER IS .500" (12.7MM)

"WMS" PART NUMBER, W-8030D

REPLACES NUMBERS,

SW801-006A, W8030, SW801006, 90-33294, SW801006A, 1102

THE HEIGHT OF THE SHAFT TO THE END OF CASE IS .640"/ 16.25mm

12V 3" DIA. FORWARD & REVERSE TANG SHAFT

MOTOR W/TERMINALS IN BACK OF CE FRAME

"WMS" PART NUMBER W-8009

REPLACES NUMBERS,

165AYS65GLL1H251, 165AYS65GLLIH258
W8009, F000MM0806, F000MM0809, 644248, 413653, 414018

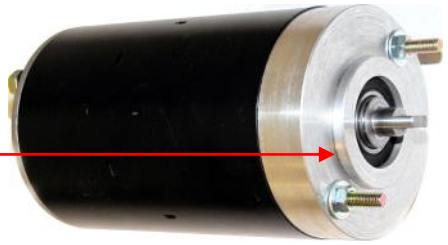
(Raised alignment ring diameter is 1.755)

Shaft dimensions

Diameter 0.382 <> Length 0.755 <> Tang width 0.152

Tang depth 0.291 <> Thru bolts are 5mm x 6.625" long

The motor length from terminals to Face of DE frame is 6.125/ 155.58mm



Terminals are 7/8" long & come out the back of the CE frame

* 12V * *(F & R)* (2) POST TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8060D

REPLACES, W8060, W8060D (6" Long), W-8023HD

(APPLICATIONS) (3" SUPERWINCH MOTORS)

(FOR WINCHES AND MARINE LOBSTER POT LIFTS)

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(SHAFT DIA. IS .520" & THE FLAT AREA IS .170" WIDE & .205" DEEP)

THE HEIGHT OF THE SHAFT TO THE END OF CASE IS .640"/ 16.25mm)

This motor is 6.0"/ 152.4.mm long

W-8060 motor has 1/4 x 20 thru bolts

* 12V * *(F & R)* (2) POST TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8060SG

REPLACES, W8060D (6.5" Long), W-8023HD

(APPLICATIONS) (3" SUPERWINCH MOTORS)

(FOR WINCHES AND MARINE LOBSTER POT LIFTS)

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

(SHAFT DIA. IS .520" & THE FLAT AREA IS .170" WIDE & .205" DEEP)

THE HEIGHT OF THE SHAFT TO THE END OF CASE IS .640"/ 16.25mm)

This motor is 6.5"/ 165.mm long

W-8060SG motor has 1/4 x 20 thru bolts

* 12V * "HD" *(F & R)* (2) POST TANG SHAFT MOTOR

"WMS" PART NUMBER, W-8060L

REPLACES, W8060D, W8023L, W-8060S, W-8023HD, W-8060SG

(APPLICATIONS) (3" SUPERWINCH MOTORS)

(FOR WINCHES AND MARINE LOBSTER POT LIFTS)

(SHAFT AT DRIVE END HAS FLATS ON EACH SIDE)

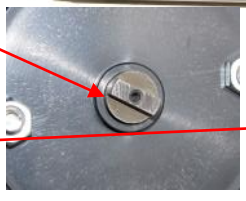
(SHAFT DIA. IS .520" & THE FLAT AREA IS .170" WIDE & .205" DEEP)

(WITH THE ARMATURE IN TO THE CORRECT POSITION

THE HEIGHT OF THE SHAFT TO THE END OF CASE IS .640"/ 16.25mm)

(This HD motor has two 5/16 X 18 terminal posts)

This 1.2KW motor is 7.00"/ 177.8mm long



*24V * (CCW) (2) POST SLOT SHAFT MOTOR (.08 KW)

"WMS" PART NUMBER, IM-0311

REPLACES NUMBERS, AME1124, 11.216.786, IM0311, 2201123,

(APPLICATIONS) (HALDEX, CONCENTRIC)

(ARMATURE HAS A .256"/ 6.50mm SLOT)

(Slot shaft is .305"/ 7.75mm past the bearing race)

(The raised alignment ring on the DE frame is 1.575"/ 40.mm)

* 12V * *(F & R)* (2) POST MOTOR

(TWO TERMINAL POST) .256 SLOT SHAFT MOTOR (.8KW)

"WMS" PART NUMBER, W-414850

REPLACES, W414850, 414850

(APPLICATIONS)

(PUMP MOTOR FOR SLIDE OUT ON MOTOR HOMES etc.)

(Large raised ring diameter on the drive end frame is 2.50"/ 63.5mm)

(Small raised ring diameter on the drive end frame is 1.535"/ 38.9mm)

.256"/ 6.50mm Shaft slot

* 12V * *(F & R)* (2) POST MOTOR

(TWO TERMINAL POST) .256 SLOT SHAFT MOTOR (.8KW)

"WMS" PART NUMBER, W-8065

REPLACES, W8065, 39200418

(APPLICATIONS)

(SPX, FENNER FLUID POWER, PRIME MOVER, MTE)

.256"/ 6.50mm Shaft slot

* 12V * *(CCW)* 3" DIAMETER MOTOR

SLOT SHAFT MOTOR WITH 0.256 SLOT (.8KW)

"WMS" PART NUMBER, W-8085

REPLACES NUMBERS, W8085, 290024, 50054, 39200485

(APPLICATIONS) (MTE PUMPS, BLIZZARD SNOW PLOWS)

(For 24V use number IM-0152)

.200"/ 5.08mm Shaft slot

* 12V * (CCW) (2) POST SLOT SHAFT MOTOR (.8KW)

"WMS" PART NUMBER, W-8080

REPLACES, 106513, W8080, IM-0176, 11.216.240, 106720, 106720C

(APPLICATIONS) (SPX, PRIME MOVER, HIDROTECHNIQUE, HPI)

The shaft diameter is 0.625 <> The slot is 0.200 wide & 0.300 deep.

From the area where the mounting holes are the shaft is 0.510"/ 12.95mm long

*** 12V * *(F & R)* (2) POST MOTOR**

(TWO TERMINAL POST) SLOT SHAFT MOTOR (.8KW)

"WMS" PART NUMBER, W-8055

REPLACES NUMBERS, IM-0172, 11.212.147, W8055, 11.212.159, 11.212.167, MF-4042, AME-1609, AME-1614

(APPLICATIONS)

(FENNER FLUID POWER, PRIME-TRAK, PRIME MOVER EQUIP.)

(ARMATURE SLOT IS .256"/6.50mm)

From the area where the mounting holes are the shaft is 0.980"/ 24.90mm long

*** 24V * *(F & R)* (2) POST MOTOR**

(TWO TERMINAL POST) SLOT SHAFT MOTOR (.8KW)

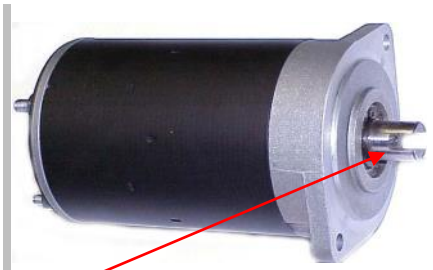
"WMS" PART NUMBER, W-8044

REPLACES, AME-1593, W8044, 11.216.177, MF-4040

(APPLICATIONS) (FENNER, SPX, PRIME-TRAK, PRIME MOVER EQUIP.)

(ARMATURE SLOT IS .256"/6.50mm)

From the area where the mounting holes are the shaft is 0.980"/ 24.90mm long



*** 12V * *(CCW)* (1) POST MOTOR**

(ONE TERMINAL POST) SLOT SHAFT MOTOR (.8KW)

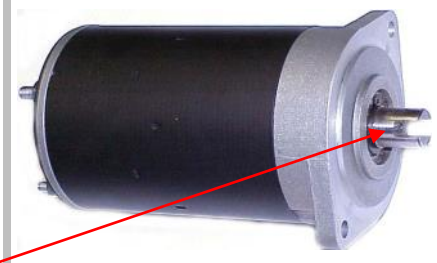
"WMS" PART NUMBER, W-8029

REPLACES NUMBERS, W8029, 8029, 08029

(APPLICATIONS) (FENNER FLUID POWER, MONARCH EQUIPMENT)

(ARMATURE SLOT IS .256"/6.50mm)

From the area where the mounting holes are the shaft is 0.980"/ 24.90mm long



*** 12V * *(CW)* (2) POST MOTOR SLOT SHAFT MOTOR**

(ONE TERMINAL POST IS GROUNDED) (.8KW)

"WMS" PART NUMBER, W-8067

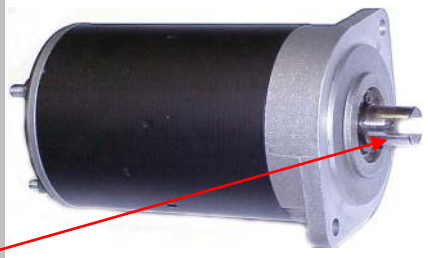
REPLACES NUMBERS, W8067, 8067

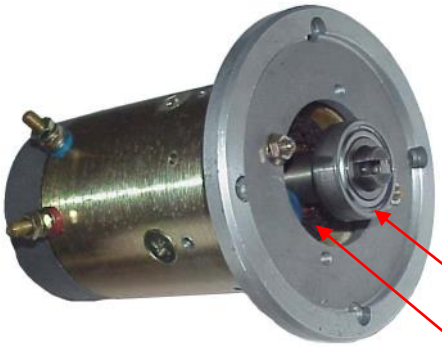
(APPLICATIONS) (FENNER FLUID POWER, MONARCH EQUIPMENT)

(ARMATURE SLOT IS .256"/6.50mm)

From the area where the mounting holes are the shaft is 0.980"/ 24.90mm long

(THIS MOTOR IS A "CW" VERSION OF THE W-8029)





*** 24V * *(CCW / INS)* (2) POST 3" DIAMETER COIL MOTOR**

"WMS" PART NUMBER, W-8182

REPLACES NUMBER, W8182, 2201101 (This motor is 6" long)

(FOR HALDEX BARNES PUMPS <> Armature slot is 0.198)

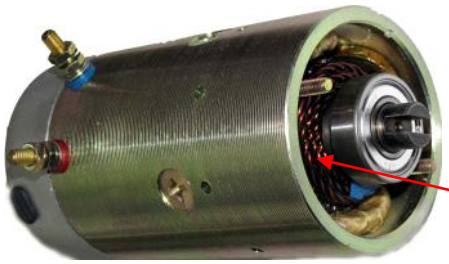
(No load spec's = RPM 5500 <> 6 Amp draw)

THERE ARE EIGHT SWITCH HOLES AROUND THE FIELD FRAME

(THE BALL BEARING & SHAFT ARE XX" FARTHUR OUT FROM THE FIELD FRAME ON THE W-8182 THAN THE W-8184 OR THE W-8186)

(THE ARMATURE HAS "QUADRUPLE" (4) ROWS OF WINDINGS)

(MUST USE THE DRIVE END FRAME FROM THE ORIGINAL MOTOR)



*** 24V * *(CCW / INS)* (2) POST 3" DIAMETER COIL MOTOR**

"WMS" PART NUMBER, W-8184

REPLACES NUMBER, W8184, 2201084 (This motor is 6" long)

(FOR HALDEX BARNES PUMPS <> Armature slot is 0.198)

(No load spec's = RPM 7000 <> 8 Amp draw)

ARMATURE HAS "TRIPPLE" (3) WINDINGS

THERE ARE EIGHT SWITCH HOLES AROUND THE FIELD FRAME

*** 24V * *(CCW / INS)* (2) POST 3" DIAMETER COIL MOTOR**

"WMS" PART NUMBER, W-8186

REPLACES, W8186, 2201086A, 24MG2A2HE, 939353171, 2201086

(This motor is 6" long)

(FOR HALDEX BARNES PUMPS <> Armature slot is 0.198)

(No load spec's = RPM 9000 <> 11 Amp draw)

ARMATURE HAS "DOUBLE" (2) WINDINGS

THERE ARE TWO SWITCH HOLES ON THE FIELD FRAME

*** 24V * *(CCW / INS)* (2) POST 3" DIAMETER COIL MOTOR**

WITH "OVERLOAD" PROTECTION

"WMS" PART NUMBER, W-8186A

REPLACES, W8186A, 2201086A, 24MG2A2HE, 939353171, 2201086

(This motor is 6" long)

(FOR HALDEX BARNES PUMPS <> Armature slot is 0.198)

ARMATURE HAS "DOUBLE" (2) WINDINGS

THERE ARE TWO SWITCH HOLES ON THE FIELD FRAME

*** 24V * *(F & R)* (2) POST MOTOR**

(TWO TERMINAL POST) SLOT SHAFT MOTOR (.8KW)

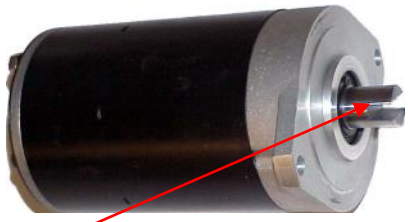
"WMS" <u>PART NUMBER, W-36511</u>

REPLACES NUMBERS, 136511, W36511, 36511

(APPLICATIONS) EFEL (*Marine*)

(ARMATURE SLOT IS .256"/6.50mm)

From the area where the mounting holes are the shaft is 0.894"/ 22.70mm long



*** 24V * *(F & R)* (2) POST MOTOR**

(TWO TERMINAL POST) SLOT SHAFT MOTOR (.8KW)

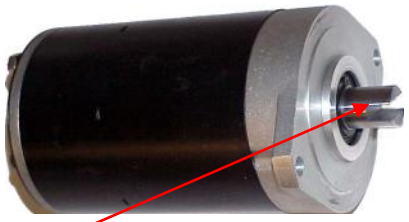
"WMS" <u>PART NUMBER, W-36569</u>

REPLACES NUMBERS, W36569, 36569, 136569, AM136569

(APPLICATIONS) EFEL (*Marine*)

(ARMATURE SLOT IS .256"/6.50mm)

From the area where the mounting holes are the shaft is 0.894"/ 22.70mm long



*** 24V * *(F & R)* (2) POST MOTOR**

(TWO TERMINAL POST) SLOT SHAFT MOTOR (.8KW)

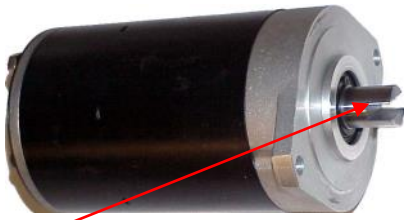
"WMS" <u>PART NUMBER, W-36752</u>

REPLACES NUMBERS, 136752, W36752, 36752

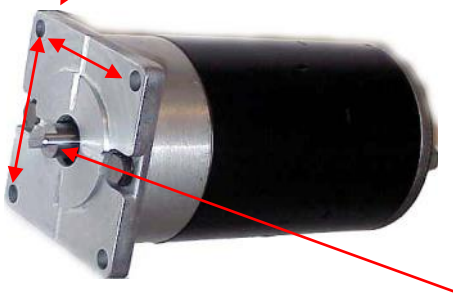
(APPLICATIONS) EFEL (*Marine*)

(ARMATURE SLOT IS .256"/6.50mm)

From the area where the mounting holes are the shaft is 0.894"/ 22.70mm long



Center to center is 2.605”



* 12V * (2) POST MOTOR

(TWO TERMINAL POST) TANG SHAFT MOTOR (.8KW)

“WMS” PART NUMBER, W-8008

REPLACES NUMBERS, W8008, 2000FT, 2000XT, 22761

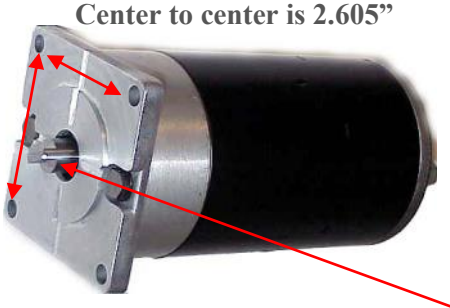
(APPLICATIONS)

(SURELOCK TARPS & BEYOND TRUCK TARPS)

Shaft length from the area with the four mounting holes is .555”/ 14.10mm

The shaft diameter is 0.500”/ 12.7mm

Center to center is 2.605”



* 12V * (2) POST MOTOR

(TWO TERMINAL POST) TANG SHAFT MOTOR (.8KW)

“WMS” PART NUMBER, W-8008M

REPLACES NUMBERS, W8008, 2000FT, 2000XT, 22761

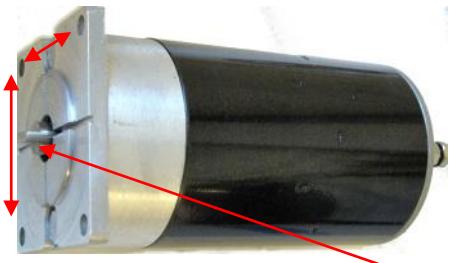
(APPLICATIONS)

(SURELOCK TARPS & BEYOND TRUCK TARPS)

Shaft length from the area with the four mounting holes is .480”/ 12.19mm

The shaft diameter is 0.473”/ 12.01mm

Center to center is 2.605”



* 12V * (2) POST MOTOR

(TWO TERMINAL POST) TANG SHAFT MOTOR (.8KW)

“WMS” PART NUMBER, W-8058

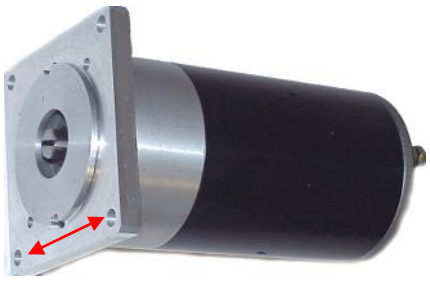
REPLACES NUMBERS, W8058

(APPLICATIONS)

(TRUCK TARPS)

Shaft length from the area with the four mounting holes is .425”/ 10.80mm

The shaft diameter is 0.473”/ 12.01mm



Mounting flange has 3” centers

** “HD” 6” LONG SALT SPREADER FOR BUYERS **

**12V* “CW” (HD) “DOUBLE BALL BEARING”*

“WMS” PART NUMBER, W-8832

REPLACES, W8832, 3006832, BP801-G01

(APPLICATIONS) (3” DIA. BUYERS SALT SPREADER)

(The W-8832 has two terminal posts, customer must use the old wires over)

(The slot in the armature is 0.095 wide)

(For a 4.5” long motor the same as the original w/wires use W-6832)

(CCW) *12V* *(3") DIAMETER PM MOTOR WITH .1875"/ 4.762mm SLOT*

"OEM"/"DBB" SNOW PLOW MOTOR FOR "MEYERS" EQUIP.

"WMS" PART NUMBER, W-8032D

REPLACES, 540-000, M-4000, MKW4007, W8032B, MGL-4005, MGL-4105, CM6579, MM48826, MM50552, MM50575 W8932, 15054, DCM-0003, 82-7850, 551046, 551046A, 0222328M048HM, 5055240M030MM, 4882640M030MM, W-8932

(APPLICATION) ("MEYER" SNOW PLOWS)

(NOW WITH GROUNDING POST ON THE CE FRAME)

THIS MOTOR HAS A GROUND TERMINAL AT THE COMMUTATOR, IT DOES NOT REQUIRE A GROUND WIRE CONNECTED TO IT, BUT IS THERE BY CUSTOMER REQUEST & CAN BE USED TO INSURE THE BEST GROUND BRUSH CONNECTIONS POSSIBLE.

Motor has 1/4X20 thru bolts

ORIGINAL EQUIPMENT

ARMATURE SLOT SIZE
IS 3/16"/ 0.1875 / 4.76mm

(CCW) *12V* DBB (3") *PERMANENT MAGNET MOTOR*

FOR MONARCH AND BUCHER EQUIPMENT *(.8KW)*

"WMS" PART NUMBER, W-8031D

REPLACES, W8031, W8031B, M-2590112, 1330185, 4423720, 16399, 8110 W-8931, 8301, 14785, 17208, 262174, 50501, 56539, 82195, 2590100, 2590112

(APPLICATIONS) (MONARCH & BUCHER PUMPS)

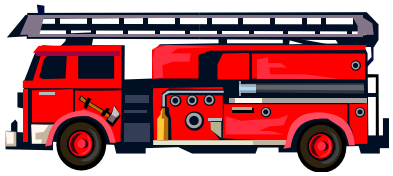
(MONARCH ROAD EQUIPMENT, LEVELERS FOR MOTOR HOMES)

(SIDE DOOR WHEELCHAIR LIFTS FOR BUSES AND VANS ETC.)

THIS MOTOR HAS A GROUND TERMINAL AT THE COMMUTATOR, IT DOES NOT REQUIRE A GROUND WIRE CONNECTED TO IT BUT IS THERE BY CUSTOMER REQUEST & CAN BE USED TO INSURE BEST MOTOR GROUND CONNECTIONS

Motor has 1/4X20 thru bolts

ARMATURE SLOT SIZE
IS 1/4"/ 0.256 / 6.50mm



(CCW) *12V* DBB (3") *PERMANENT MAGNET MOTOR*

FOR MONARCH AND BUCHER EQUIPMENT

"WMS" PART NUMBER, W-8931

REPLACES, M-2590112, 1330185, 4423720, 16399, 8110, M-4100 W8931, 8301, 14785, 17208, 262174, 50501, 56539, 82195, 2590100, 2590112

(APPLICATIONS) ("MONARCH" PUMPS)

(MONARCH ROAD EQUIPMENT, LEVELERS FOR MOTOR HOMES)

(SIDE DOOR WHEELCHAIR LIFTS FOR VANS ETC.)

Motor has 1/4X20 thru bolts

ARMATURE SLOT SIZE
IS 1/4"/ 0.256 / 6.50mm

* 12V * (2) POST MOTOR

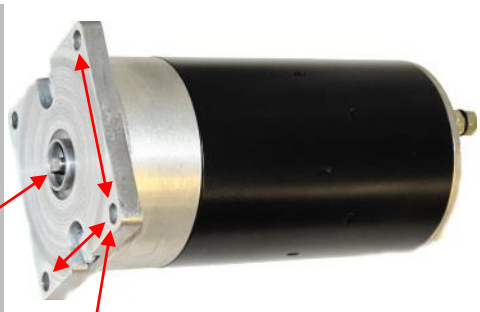
(FORWARD & REVERSE) TANG SHAFT MOTOR (.8KW)

"WMS" PART NUMBER, W-14115

REPLACES, W14115, 522788S, DN14665, DN14115, 522788

(APPLICATIONS) (RV ROOM SLIDEOUTS)

Shaft diameter is 0.375 and tang width flat to flat is 0.185



Center to center is 2.605"

* 12V * *(F & R)* (2) POST MOTOR SHAFT MOTOR

"WMS" PART NUMBER, W-8847

REPLACES NUMBERS, 2900062

(THE SMALL SHAFT DIAMETER IS .333"/8.45mm)

(ARMATURE SHAFT HAS 1/4 X 28 THREADS)

(THIS ARMATURE SHAFT HAS A FLAT ON "ONE" SIDE)

* 12V * *(F & R)* (2) POST MOTOR SHAFT MOTOR

"WMS" PART NUMBER, W-8849N

REPLACES NUMBER, V-548

(THE SMALL SHAFT DIAMETER IS .333" (8.45mm)

(ARMATURE SHAFT HAS 1/4 X 28 THREADS)

(THIS ARMATURE SHAFT HAS FLATS ON "BOTH" SIDES)

* 12V * *(F & R)* (2) POST MOTOR

(FORWARD & REVERSE) "SHAFT" MOTOR

"WMS" PART NUMBER, W-8002D

(APPLICATIONS) (SPECIALTY MOTORS AND WINCH MOTORS)

(MOTOR HAS 1/4 X 20 THRU BOLTS)

(THE SHAFT DIAMETER IS .520"/ 13.20mm)

(ARMATURE SHAFT IS ROUND WITHOUT KEYS OR FLATS)

(ARMATURE SHAFT IS 3"/ 76.2mm OUT FROM THE DRIVE END FRAME)

* 24V * *(F & R)* (2) POST MOTOR

(FORWARD & REVERSE) "SHAFT" MOTOR

"WMS" PART NUMBER, W-8004

(APPLICATIONS) (SPECIALTY MOTORS AND WINCH MOTORS)

(MOTOR HAS 1/4 X 20 THRU BOLTS)

(THE SHAFT DIAMETER IS .520"/ 13.20mm)

(ARMATURE SHAFT IS ROUND WITHOUT KEYS OR FLATS)

(ARMATURE SHAFT IS 3"/ 76.2mm OUT FROM THE DRIVE END FRAME)

* 12V * *(F & R)* (2) POST 3" PM MOTOR

"WMS" PART NUMBER, W-270670

REPLACES NUMBERS,

270670, 27067Q, PV27067Q, PV270670, PV-27067Q, PV-270670

(Shaft diameter is 0.380"/ 9.65mm)

(Shaft length is 2.00"/ 50.8mm with a flat area for set screw)

* 12V * *(F & R)* (2) POST 3" PM MOTOR

"WMS" PART NUMBER, W-V33SR

REPLACES NUMBERS,

WV33SR, 30672, 801-006, R1801-003, R1801-006, V33SR-CS9

(Shaft diameter is .343"/ 8.71mm <> Length is 1.94"/ 49.27mm)

(Has a 0.063 wide snap ring groove)

(Has a flat shoulder on each side)

(Slot size on the end of shaft is .125"/ 3.17mm)

Terminals are 7/8" long & come out the back of the CE frame

* 12V * *(F & R)* (2) POST 3" PM MOTOR

"WMS" PART NUMBER, W-8173

REPLACES NUMBERS,

W-8822, W8173, W-8073, 224973, V-335, W8822, V60R

(Shaft diameter is .343"/ 8.71mm <> Length is 2.05"/ 52.07mm)

(Has a 0.063 wide snap ring groove)

(Has a flat shoulder on each side)

(Slot size on the end of shaft is .125"/ 3.17mm)

MOTOR BODY LENGTHS ARE 5.75"

* 24V * *(F & R)* (2) POST 3" PM MOTOR

"WMS" PART NUMBER, W-8175

REPLACES NUMBERS, W8175

(Shaft diameter is .343"/ 8.71mm <> Length is 2.05"/ 52.07mm)

(Has a 0.063 wide snap ring groove)

(Has a flat shoulder on each side)

(Slot size on the end of shaft is .125"/ 3.17mm)

NEW *12V* ADC MOTOR WITH INTERNAL NINE SPLINE ARMATURE SHAFT

"WMS" PART NUMBER, AL4-4001A

REPLACES NUMBER,
AL44001, 44001, AL4-4001

(APPLICATIONS)
MOBIL EQUIPMENT, CAR HAULERS etc.
(For a remanufactured motor use AL4-4001RM)

***24V* (CW) DBB (5" DIA.) SLOT/SHA MOTOR**

"WMS" PART NUMBER, 140-01-4003

REPLACES NUMBERS,
140-01-4003RM, 140-01-4003A

(APPLICATIONS)
(CROWN EQUIPMENT)
(The base mount has oval non-threaded holes)

(Remanufactured motor with a core charge)

***24V* (CW) DBB (5" DIA.) SLOT/SHA MOTOR**

"WMS" PART NUMBER, 140-01-4007A

REPLACES NUMBERS,
40844, 1114330, 140-01-4007C, 5BCG52MA100

(APPLICATIONS) (GENIE EQUIPMENT)
(The base mount has four 1/4 X 20 threaded holes)

(Remanufactured motor with a core charge)

***36V* (CW) DBB (5" DIA.) SLOT/SHA MOTOR**

"WMS" PART NUMBER, 140-18-4001RM

REPLACES NUMBERS,
305878, 305879, 624665,

(APPLICATIONS)
(PRIME-MOVER, CLARK EQUIPMENT)

(Remanufactured motor with a core charge)

***24V* (CW) DBB (5" DIA.) SLOT/SHA MOTOR**

"WMS" PART NUMBER, MKA4007RM

REPLACES NUMBERS,
46-2448, 85155, KMKA-4007, MKA4007

(APPLICATIONS)
(CROWN EQUIPMENT)

(Remanufactured motor with a core charge)

***24V* (CW) DBB (5" DIA.) SLOT/SHA MOTOR**

"WMS" PART NUMBER, MXC4001RM

REPLACES NUMBERS,
MXC-4001, 46-4197, 901-0008, MXC4001S

(APPLICATIONS)
(BLUE GIANT)

(Remanufactured motor with a core charge)

***36V* (CW) DBB (5" DIA.) SLOT/SHA MOTOR**

"WMS" PART NUMBER, MTY4001RM

REPLACES NUMBERS,
MTY4001, MTY4001S, 46-2832, 570-250/200, 104078

(APPLICATIONS)
(CROWN EQUIPMENT)

(Remanufactured motor with a core charge)

***12V* (CW) HD 5" DIA. "INS/GRD" MOTOR**

"WMS" PART NUMBER, ML-4342RM

REPLACES NUMBERS, ML-4342, ML-4342A, ML-4342S
ML4335, 46-147, ML4342RM, ML4342, ML4342A

(APPLICATIONS)
(EATON CORP., J.S. BARNES, HALDEX)

(Remanufactured motor with a core charge)

.256"/ 6.50mm Shaft slot

24V (CW) HD DBB (5" DIA.) MOTOR W/SW HOLES

"WMS" PART NUMBER, W-4810B

REPLACES, MFY4101, MFY-4101, MFY-4102, MFY-4201
GC-3918, GC-3918B, 171-85903, 220-0079, 220-0454, 220-0471
W4810B, MFY-4202, 46-2275, 46-2533, 46-2638, 46-2810,W-4810

(APPLICATIONS)
(HALDEX BARNES, MTE, etc.)

(PARKER HANNIFIN, WEBSTER ELECTRIC)
(CROWN EQUIPMENT, EATON, SKIDMORE)

.256"/ 6.50mm Shaft slot

12V (CCW) HD (5" DIA.) MOTOR W/SW HOLES

"WMS" PART NUMBER, W-5001

REPLACES, W5001, 39200396, 46-2039, 46-2562, 8083, 8105
MHV-4001, MHV-5001, MHV-5101, MHV-5101S

(APPLICATIONS) (MTE & MONARCH ROAD MACHINERY)

(MOTOR HAS COVER BANDS TO BE NON-VENTED)

24V (CCW) HD (5" DIA.) MOTOR W/SW HOLES

"WMS" PART NUMBER, W-5109

REPLACES, 08089, 08106, MBD-4312, MBD-4316, MBD-5109
W5109, 52005, MBD5109S, MBD5109, 46-2120, 46-2563, MBD-5109S

(APPLICATIONS) (MTE & MONARCH ROAD MACHINERY)

(MOTOR HAS COVER BANDS TO BE NON-VENTED)

12V (CW / DBB) HD (5" DIA.) MOTOR

"WMS" PART NUMBER, W-5144

REPLACES NUMBERS, D468208XWF04-1, D468208XWF04
THIS IS A "12V" VERSION OF THE W-5007 MOTOR BELOW.

(APPLICATIONS) (CESSNA FLUID POWER)

** "MOST" POPULAR HD **
** 24 VOLT FIVE INCH*
*DIAMETER PUMP MOTOR **

.256"/ 6.50mm Shaft slot

24V (CW)HD (5" DIA.) DBB "MBD" MOTOR

"WMS" PART NUMBER, W-5007

REPLACES, MBD-4304, MBD-5007, MBD-5007S, MBD-5102
\ MBD-5107, MBD-5107A, MBD-5107S, 160-819, 715141
7204414, 05-1040, 220-0027, 220-0214, 220-0216, 39200158,
D468214XWF07A, D468201XWF07A, 392-00347
46-2553, 39200347, 09406967, 46-224, 46-2458, 46-2598
W5007, A16428-9, A16428-11, PR2-0065N, 830514010, MBD-5107D

(APPLICATIONS)

(LEYMAN MANUFACTURING, J.S. BARNES, CLARK EQUIP.)
(CONCENTRIC, SCHAEFF, CROWN, ROSS, ACCESS PLATFORM)

***24V* (CW) HD (5" DIA.) "MFY" STYLE MOTOR**

"WMS" PART NUMBER, W-4816

REPLACES, W4816, 18PU000078, 18PU00007B

(APPLICATIONS) (BARNES, MTE)

(PARKER HANNIFIN, WEBSTER ELECTRIC)
(CROWN EQUIPMENT, EATON, SKIDMORE, J.S. BARNES)

(*NOTE* THE DE FRAME HAS (6) THREADED HOLES)

.256"/ 6.50mm Shaft slot

***24V* (CW) DBB (5" DIA.) SLOT/SHA MOTOR**

"WMS" PART NUMBER, W-5407

REPLACES NUMBERS, W5407, 1723702, 160-817
2310757, 2310758, MBD-4308, MBD-4308A, SYM1600
1623598, 1735944, 1742289, 773266, 908462, 46-4052

(APPLICATIONS) (CLARK EQUIPMENT)

(VENTILATED MOTOR WITH INTERNAL FAN)

.256"/ 6.50mm Shaft slot

***24V* (CW) DBB (5" DIA.) SPEC/SLOT/SHA MOTOR**

"WMS" PART NUMBER, MBD5001RM

REPLACES NUMBERS,
MBD5001, 46-2371, MBD-5001, MBD5001S

(APPLICATIONS) (CLARK EQUIPMENT, HALDEX BARNES)

(THIS MOTOR HAS A CORE CHARGE)

.375"/ 9.525mm Shaft slot

***24V* (CW) DBB (5" DIA.) SPEC/SLOT/SHA MOTOR**

WMS PART NUMBER, MBD5006RM

REPLACES NUMBERS, W-5006, 2750551, MBD-5006
MBD5006, MBD5006S, 909939, MBD-5006S, 46-2503
MBD5006RM, 2200102, MBD-4314, 220-0102, MBD-4314S

(APPLICATIONS) (CLARK EQUIPMENT, HALDEX BARNES)

(THIS MOTOR HAS A CORE CHARGE)

.375"/ 9.525mm Shaft slot

***24V* CW / 5" DIAMETER "DBB" MOTOR**

"AMETEK" NUMBER, MBD5107D

REPLACES, W-5007, MBD-4304, MBD-5007, MBD-5007S
MBD-5107, MBD-5107A, MBD-5107S, 160-819, 220-0027, 220-0214
220-0216, 39200158, D468214XWF07A, D468201XWF07A, 39200347
09406967, 46-2594, 46-2598, W5007, A16428-9, 830514010, 46-2553

(APPLICATIONS) (LEYMAN MANUFACTURING, HALDEX
CLARK, SCHAEFF, CROWN, ROSS, ACCESS PLATFORM)

(This is a Ametek/Prestolite version of the W-5007)

.256"/ 6.50mm Shaft slot

12V (CW) HD (5" DIA.) "MFY/STYLE" SEALED MOTOR *(WITH SLOT SHAFT ARMATURE)*

"WMS" PART NUMBER, W-5105

(THIS IS A 12V VERSION OF THE W-4810B)

(APPLICATIONS) (JS BARNES, HALDEX BARNES)

.256"/ 6.50mm Shaft slot

12V (CW) HD (5" DIA.) MOTOR *(WITH SLOT SHAFT ARMATURE)*

"WMS" PART NUMBER, MBR4029RM

REPLACES, 46-105, MBR4029RM, MBR-4029, MBR-4029A

(APPLICATIONS) (J.S. BARNES AND HALDEX BARNES)

(THIS MOTOR HAS A CORE CHARGE)

12V (CW) HD (5" DIA.) MOTOR *(WITH SLOT SHAFT ARMATURE)*

"WMS" PART NUMBER, MBR4030RM

REPLACES NUMBERS, 46-846, MBR4030RM, MBR-4030

(APPLICATIONS) (CESSNA FLUID POWER)

(THIS MOTOR HAS A CORE CHARGE)

.256"/ 6.50mm Shaft slot

12V (CW) HD *DBB* (5" DIA.) MOTOR *(WITH SLOT SHAFT ARMATURE)*

"WMS" PART NUMBER, MBR5102N

REPLACES NUMBERS,
MBR5102RM, MBR5102N, MBR-5002, MBR-5102
46-2620, MBR4029, MBR4030, MBR5002, MBR5102

(APPLICATIONS)

(CESSNA INDUSTRIAL AND CESSNA FLUID POWER)

12V (CW) HD *DBB* (5" DIA.) MOTOR *(WITH SLOT SHAFT ARMATURE)*

"WMS" PART NUMBER, MBR5102RM

REPLACES, 46-2620, MBR5102RM, MBR-5002, MBR-5102

(APPLICATIONS)

(CESSNA INDUSTRIAL AND CESSNA FLUID POWER)

(THIS MOTOR HAS A CORE CHARGE)

(FOR A MOTOR WITHOUT A CORE CHARGE USE NUMBER MBR-5102N)

12V (CW) HD (5" DIA.) "MBR" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-5104

THIS IS A NON-VENTED VERSION OF THE MBR-5102N

(APPLICATIONS) (CROWN & HALDEX BARNES)

(SPECIAL NON-VENT COMM END AND DRIVE END FRAME)

(FOR 24V USE NUMBER W-5107)

** NON-VENTED **

.256"/ 6.50mm Shaft slot

24V (CW) HD DBB (5" DIA.) "MMT" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, MMT5001RM

REPLACES NUMBERS, MMT-4001, MMT-5001
MMT5001RM, 46-2423, MMT5001, 46-2540, 2200225

(APPLICATIONS) (JS BARNES, HALDEX BARNES)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

24V (CW) HD (5" DIA.) "MBD" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-5107

REPLACES, W5107, D468219XWF01, D468219XWF01A
009346-2553, D468201XWF01, D468201XWF02, 2200321

(APPLICATIONS) (CROWN & HALDEX BARNES)

(SPECIAL NON-VENT COMM END AND DRIVE END FRAME)

** NON-VENTED **

.256"/ 6.50mm Shaft slot

24V (CW) HD *DBB* (5" DIA.) MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, MBD5008N

REPLACES, MBD5008N, MBD-5008, MBD5008, 46-2462

(APPLICATIONS) (JS BARNES, HALDEX BARNES)

(SPECIAL DRIVE END FRAME)

.256"/ 6.50mm Shaft slot

36V (CW) HD DBB (5" DIA.) "MMP" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-5236

REPLACES NUMBERS,
W5236, MMP-4001, MMP-5001, 46-2544, MMP-5001A

(APPLICATIONS) (JS BARNES, HALDEX BARNES)

CLOCKWISE ROTATION AT DE

24V (CW) HD DBB (5" DIA.) MOTOR

WMS PART NUMBER, W-5112

REPLACES NUMBERS, MBD-5112, MBD-5112S
MBD5112S, 2200858, 2200980, D468210XWF02
W5112, 7011041, D46237XWF07A, D468242XWF07

(HAS CHRYSLER COUPLER TYPE SHAFT) (AMPLEX)
(APPLICATIONS) (HALDEX, BARNES PUMPS, ETC.)

(FOR "COUNTER CLOCKWISE" USE W-5115)

CLOCKWISE ROTATION AT DE

24V (CW) HD DBB (5" DIA.) MOTOR

WMS PART NUMBER, W-5114

REPLACES NUMBERS, W5114, 2200353, D468247XWF07,
D468247XWF07A, D468210XWF02, D468237XWF07, D468242XWF07

(HAS CHRYSLER COUPLER TYPE SHAFT) (AMPLEX)
(APPLICATIONS) (HALDEX, BARNES PUMPS, ETC.)

COUNTER CLOCKWISE AT DE

24V (CCW) HD DBB (5" DIA.) MOTOR

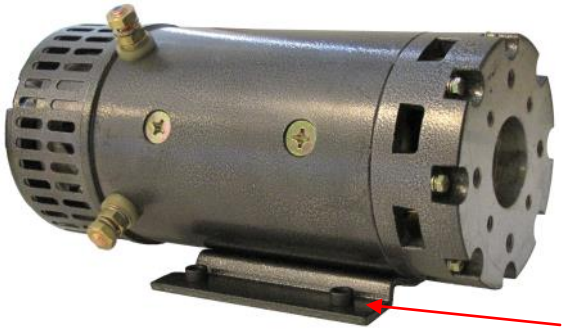
WMS PART NUMBER, W-5115

(HAS CHRYSLER COUPLER TYPE SHAFT) (AMPLEX)

(APPLICATIONS)
(HALDEX, BARNES PUMPS, ETC.)

(FOR "CLOCKWISE" MOTOR USE W-5112)

CLOCKWISE ROTATION AT DE



24V (CW) HD DBB (5" DIA.) MOTOR

WMS PART NUMBER, W-5120

REPLACES NUMBERS,
2200980, D468247XWF07, D468247XWF07A
D468250XWF07, D468250XWF07A, D468255XWF07A

(HAS CHRYSLER COUPLER TYPE SHAFT) (AMPLEX)
(APPLICATIONS) (HALDEX, BARNES PUMPS, ETC.)

(MOTOR HAS 5/16 X 18" THREADED HOLES IN THE BASE MOUNT)

UNIVERSAL "HD" SHAFT MOTOR
12V ***(CW)*** **5" DIAMETER MOTOR**
HAS A .625" DIAMETER SHAFT W/BAR KEY SLOT
2 TERMINAL POST W/INSULATED GROUND
"WMS" PART NUMBER, W-5412

MANY MISCELLANEOUS 12V HD/CW APPLICATIONS
(THE SHAFT IS 2.25"/ 57.15mm OUT FROM THE DE FRAME)
(FOR A "CCW" MOTOR USE NUMBER W-5414)

3.2 HP

UNIVERSAL "HD" SHAFT MOTOR W/56C DE
12V ***(CW)*** **5" DIAMETER MOTOR**
HAS A .625" DIAMETER SHAFT W/BAR KEY SLOT
2 TERMINAL POST W/INSULATED GROUND
"WMS" PART NUMBER, W-5456

MANY MISCELLANEOUS 12V HD/CW APPLICATIONS
(THE SHAFT IS 2.00"/ 50.8mm OUT FROM THE DE FRAME)
(FOR A "CCW" MOTOR USE NUMBER W-5458)

3.2HP W/56C DE FRAME

UNIVERSAL "HD" SHAFT MOTOR
24V ***(CW)*** **5" DIAMETER MOTOR**
HAS A .625" DIAMETER SHAFT W/BAR KEY SLOT
2 TERMINAL POST W/INSULATED GROUND
"WMS" PART NUMBER, W-5307

MANY MISCELLANEOUS 24V HD/CW APPLICATIONS
(THE SHAFT IS 2.25"/ 57.15mm OUT FROM THE DE FRAME)
(FOR A "CCW" MOTOR USE NUMBER W-5308)

4 HP

UNIVERSAL "HD" SHAFT MOTOR W/56C DE
24V ***(CW)*** **5" DIAMETER MOTOR**
HAS A .625" DIAMETER SHAFT W/BAR KEY SLOT
2 TERMINAL POST W/INSULATED GROUND
"WMS" PART NUMBER, W-5355

MANY MISCELLANEOUS 24V HD/CCW APPLICATIONS
(THE SHAFT IS 2.00"/ 50.8mm OUT FROM THE DE FRAME)
(FOR A "CCW" MOTOR USE NUMBER W-5356)

4 HP W/56C DE FRAME

24V (CW) HD (5" DIA.) "DBB" INS/GRD MOTOR

"WMS" PART NUMBER, W-4025

REPLACES NUMBERS,
2201107, 50020501933, AMK4676, 500205019335, W4025

(APPLICATIONS)
HALDEX, BUCHER AND MONARCH HYDRAULICS

(MOTOR HAS A .256"/6.50mm SLOT SHAFT ARMATURE)

24V (CW) HD (5" DIA.) "DBB" INS/GRD MOTOR

"WMS" PART NUMBER, W-4028

REPLACES NUMBERS, 2201149, W4028

(APPLICATIONS) HALDEX, CONCENTRIC

(MOTOR HAS A .256"/6.50mm SLOT SHAFT ARMATURE & HAS 4 MODIFIED MOUNT HOLES ON THE DRIVE END FRAME)

24V (CW) HD (5" DIA.) DBB / MFY TYPE MOTOR

"WMS" PART NUMBER, W-4039

REPLACES NUMBERS,
MFY4204, MFY4203B, MFY4204B, W4039, 2201135, 2201136

(APPLICATIONS) (CATERPILLAR, HALDEX, CONCENTRIC)

(MOTOR HAS THE "INTERNAL" (9) SPLINE SHAFT)

(FOR A "METRIC" VERSION OF THIS MOTOR USE W-4040)

24V (CW) HD (5" DIA.) DBB / MFY TYPE MOTOR

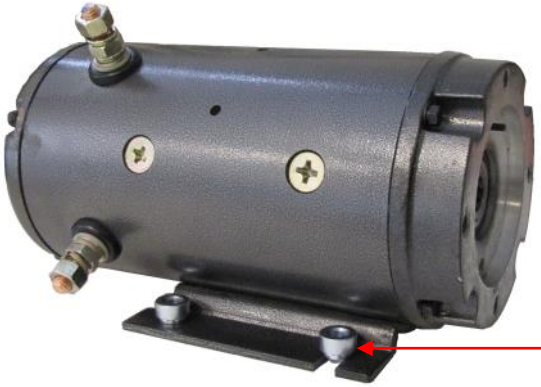
"WMS" PART NUMBER, W-4040

REPLACES, MFY4204A without base weld nuts, W4040

(APPLICATIONS) (CATERPILLAR, HALDEX, CONCENTRIC

(MOTOR HAS THE "INTERNAL" (9) SPLINE SHAFT)

(THIS IS A "METRIC" VERSION OF THE W-4039)
(THIS MOTOR DOES NOT HAVE WELD NUTS ON THE BASE MOUNT)



24V (CW) HD (5" DIA.) DBB / MFY TYPE MOTOR

"WMS" PART NUMBER, W-4042

REPLACES NUMBERS, 2201112, W4042, MFY4204A

(APPLICATIONS) (CATERPILLAR, HALDEX, CONCENTRIC

(MOTOR HAS THE "INTERNAL" (9) SPLINE SHAFT)

(THIS IS A W-4040 WITH M10X1.5 THREADED NUTS ON THE BASE)

24V (CW) HD (5" DIA.) "MMR" MOTOR

"WMS" PART NUMBER, W-5101

REPLACES NUMBERS, MMR-5101
W5101, 46-2376, 46-2504, 46-2600, MBD-4310, MBD-4310XP
328908, MMR-5101S, M2-1111-00, M2-1111-02, M2111102

(APPLICATIONS) (SPX, FENNER FLUID POWER)

.256"/ 6.50mm Shaft slot

12V *(5" DIAMETER) BI-DIRECTIONAL *HD* (FORWARD & REVERSE)* (3) POST MOTOR *WITH SLOT SHAFT ARMATURE*

"WMS" PART NUMBER, W-24362

REPLACES, 14362, 14362L, 14363, W24362, 24362

(APPLICATIONS) (CRANES) (SANTA ANITA)

(NOTE) THE DRIVE END FRAME IS FOR SHIPPING ONLY.

YOU MUST INSTALL THE DRIVE END FRAME FROM THE ORIGINAL MOTOR BEING REPLACED.

This motor is manufactured in the Prestolite "ML" style

12V (F & R) HD (4.5" DIAMETER) BI-DIRECTIONAL

"WMS" PART NUMBER, W-17531

REPLACES NUMBERS, W17351, 17351

(APPLICATIONS) (CRANES) (SANTA ANITA)

(2HP) (3250 RPM) (LENGTH OF MOTOR IS 11")

(NOTE) THE DRIVE END FRAME IS FOR SHIPPING ONLY.

YOU MUST INSTALL THE DRIVE END FRAME ASSEMBLY FROM THE ORIGINAL MOTOR BEING REPLACED.

This motor is manufactured in the PM "Scott" motor style

12V (DBB) BI-DIRECTIONAL (2) POST MOTOR W/GRD/POST AND .256"/ 6.50mm SLOT SHAFT ARMATURE*

"WMS" PART NUMBER, W-9962

REPLACES, (*PRESTOLITE XOT STYLE MOTOR*)

(APPLICATIONS) (CRANES) (VENCO, SANTA ANITA)

(NOTE) THIS IS A "HD" 4.5" DIAMETER MOTOR

THE OVERALL MOTOR LENGTH IS 7"/ 177.8mm

YOU MUST INSTALL THE DRIVE END FRAME FROM THE ORIGINAL MOTOR BEING REPLACED.

12V (CCW) HD (5" DIA.) MOTOR

"WMS" PART NUMBER, W-5204

REPLACES, W5204, 46-2603, 511149, ML-4370, ML-5004, ML5004

(APPLICATIONS)

(ATLAS ENGINE, LUFKIN FOUNDRY, COOPER ENERGY)

Shaft length .865"/ 21.97mm w/a 5/16X18 threaded hole & woodruff key

.256"/ 6.50mm Shaft slot

12V (CCW) HD (5" DIA.) "INS/GRD" MOTOR

"WMS" PART NUMBER, W-5205

REPLACES NUMBERS,
2200089, 33-11073, W5205, 909499

(APPLICATIONS) (MONARCH EQUIPMENT, J.S. BARNES)

DOUBLE BALL BEARING
.256"/ 6.50mm Shaft slot

12V (CW) HD (5" DIA.) "INS/GRD" MOTOR

"WMS" PART NUMBER, W-5207

REPLACES, 1294164-83, 1294164-91, 151-21044, 171-21044
33-11050, 33-11052, 220-0006, 220-0218, 39200072, 592303
W5207, 05-1045, 6139404, 878173, 907381, GC-123DC4, EL-56
ML-4355, ML-4357, ML-4364, ML-4368, ML-4369, ML-4375
ML-4509, ML-4510, ML-4512, ML-5006, ML-5007, ML-5007S

(APPLICATIONS)

(LEYMAN MANUFACTURING, SKIDMORE, J.S. BARNES)
(RAYMOND, WEBSTER ELECTRIC, HANN HYDRAULIC)

DOUBLE BALL BEARING

12V (CCW) HD (5" DIA.) "ML" MOTOR

"WMS" PART NUMBER, W-5361

REPLACES, W5361, ML4361, 46-2243, ML-4361, ML-4361A

(APPLICATIONS) (J.S. BARNES, HALDEX / BARNES)

(* NOTE *)

(The drive end frame is for shipping only, remove to install motor)

DOUBLE BALL BEARING

12V (CCW) HD 5" DIA. "INS/GRD" MOTOR

"WMS" PART NUMBER, W-5211

REPLACES "CCW" MOTOR NUMBERS,

46-2609, ML-4511, ML-5005, ML-5005S
W5211, 46-2523, ML4511, ML5005

(APPLICATIONS)
(BLUE GIANT)

***12V* (CW) HD (5" DIA.) "INS/GRD" MOTOR**
(With slot shaft armature and has thru bolt mounting)

"WMS" PART NUMBER, W-5209

REPLACES, W5209, 46-0827, 12MP16, ML4503, ML-4503
ML-5009S, ML5009S, 46-3527, 711345, 41-25502, ML5009, ML-5009

(APPLICATIONS) (BAKER MATERIAL HANDLING)

***12V* (CCW) HD (5" DIA.) "INS/GRD" MOTOR**
(With slot shaft armature and has thru bolt mounting)

"WMS" PART NUMBER, W-5202

REPLACES, 46-2176, W5202, ML-4506, ML-5002, ML4506
1821162, ML-4506S, 2200226, 46-2542, ML-5002S, ML5002

(APPLICATIONS) (J.S. BARNES)

.256"/ 6.50mm Shaft slot

***12V* (CCW) HD (5" DIA.) "ML" MOTOR**
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-5203

(APPLICATIONS) (J.S. BARNES)

THIS IS A ONE TERMINAL POST MOTOR WITH THE
TERMINAL POST AT THE 10:00 O'CLOCK POSITION

***12V* (F & R) HD (5" DIA.) MOTOR**
(WITH WOODRUFF KEY ARMATURE SHAFT)

"WMS" PART NUMBER, W-5232

(FORWARD & REVERSING VERSION OF A W-5204)

(APPLICATIONS)

(ATLAS ENGINE, LUFKIN FOUNDRY, COOPER ENERGY)

(THE .625"/ 15.87mm DIAMETER SHAFT IS 1.25"/31.75mm LONG

***12V* (F & R) HD (5" DIA.) MOTOR**
(.669"/ 16.99mm diameter shaft w/a woodruff key slot & .669X20 threads)

"WMS" PART NUMBER, W-12370

(UNIVERSAL FORWARD & REVERSING SHAFT MOTOR)

(This motor use's all 4 field coils for each direction)

THIS IS A 5" DIAMETER MOTOR WITH A BASE MOUNT

(FOR 24V USE NUMBER W-24370)

24V (CW) HD (5" DIA.) "INS/GRD" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-5206

REPLACES NUMBERS, MEB-4001, W5206, 46-377, MEB-4001S
(APPLICATIONS) (J.S. BARNES)

(CAN USE LATE STYLE NUMBER W-5210)

NON-VENTILATED

24V (CW) HD (5" DIA.) "INS/GRD" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-5210

REPLACES, W5210, MEB-5001, 46-2593, 46-2596, MEB-5002

(APPLICATIONS) (J.S. BARNES)

(CAN USE EARLY STYLE NUMBER W-5206)

24V (CCW) HD (5" DIA.) "INS/GRD" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-5224

REPLACES, W5224

(APPLICATIONS)

(HALDEX BARNES, CONCENTRIC)

24V (F & R) (5" DIA.) MOTOR
(.669"/ 16.99mm diameter shaft w/a woodruff key slot & .669X20 threads)

"WMS" PART NUMBER, W-24370

(UNIVERSAL FORWARD & REVERSING SHAFT MOTOR)

(This motor use's all 4 field coils for each direction)

THIS IS A 5" DIAMETER MOTOR WITH A BASE MOUNT

(FOR 12V USE NUMBER W-12370)

VENTILATED

36/48V (CCW) HD (5" DIA.) "INS/GRD" MOTOR

"WMS" PART NUMBER, MHR4002

REPLACES, 46-2238, MHR-4005, 46-2874, MHR-4002
MHR-4007, MHR-4008, MHR-4008S, MHR-5001, MHR-5001S

(APPLICATIONS) (CLARK, HANNIFIN, HALDEX-BARNES)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

***24V*(CW / 9S) HD DBB (5" DIA.) MMR STYLE MOTOR**
(9 SPLINE ARMATURE SHAFT & ROUND DRIVE END FRAME)

WMS PART NUMBER, W-5106

REPLACES, W5106, 3600219, 3600-219, 3673AB
46-4063, MMR5103, MMR-5103, MMR-5103S
(APPLICATIONS) (SPX, FENNER FLUID POWER)

(For a motor with the tall black plastic insulators
on the terminal posts order part number W-5106B)

***24V* (CW / 9S) HD (5" DIA.) MMR STYLE MOTOR**
(9 SPLINE ARMATURE SHAFT & ROUND DRIVE END FRAME)

WMS PART NUMBER, W-5106B

REPLACES, 4380AC, DM1001A, DM1001B
46-4065, MMR5106, MMR-5106S, 4380-AC

(APPLICATIONS) (SPX, FENNER FLUID POWER)

(For a motor "without" the tall black plastic insulators
on the terminal posts order part number W-5106)

***24V* (CW / 9S) HD (5" DIA.) MMR STYLE MOTOR**
(9 SPLINE ARMATURE SHAFT & SQUARE DRIVE END FRAME)

WMS PART NUMBER, MMR5107N

REPLACES NUMBERS,

MMR-5107, 305008-001, 5673AB, 3931AB, MMR5107S, 46-4143

(APPLICATIONS)

(SPX, FENNER FLUID POWER)

***24V* (CW) HD (5" DIA.) "DBB" MOTOR**

"WMS" PART NUMBER, W-4050C

REPLACES NUMBERS,
MF4050, MF4050C, W4050C, MF-4050, MF-4050C

(APPLICATIONS) (STONE IND., SPX HYD.)

(HAS THE (9) SPLINE SHAFT)

***24V* (CW) HD (5" DIA.) "DBB / MFY" TYPE MOTOR**

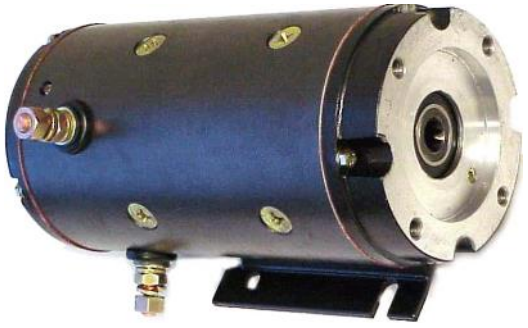
"WMS" PART NUMBER, W-4037

REPLACES NUMBERS, MFY-4203, MFY-4203S, MFY-203D
W4037, 2200943, 2201043, MFY-4203RM, 46-4037RM, 46-4037

(APPLICATIONS) (CATERPILLAR, HALDEX, CONCENTRIC

(HAS THE "INTERNAL" (9) SPLINE)

(FOR A "METRIC" VERSION OF THIS MOTOR USE W-4040)



*** 12V *** ***(FOUR POST "INS" GROUND MOTOR)***

(SPECIAL LONG SHAFT W/THREADED END)

"WMS" PART NUMBER, D468235XWF12ARM

REPLACES, 7300220-11, 5189686-00, 2307492, D468235XWF12A

(APPLICATION) (YALE, ETC.)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

***24V* (CW) HD / DBB (5" DIA.) "MBD" MOTOR**

"WMS" PART NUMBER, W-5008

REPLACES NUMBERS, W5008, 46-232, MBD-4301, MBD-4301A

(APPLICATIONS) (CLARK EQUIPMENT AND OTHER MISC.)

24V* (CCW) (HD) *"DBB"

SLOT SHAFT MOTOR, FOR *"HPI FRENCH PUMP"*

WITH *"INSULATED" GROUND* (2) POST MOTOR

"WMS" PART NUMBER, W-8524

REPLACES, W8524,109024, 47042003E

H.P.I. FRENCH PUMP MOTOR.

(APPLICATIONS) (QUARRY EQUIP., ROCK CRUSHER ETC.)

(THE RAISED RING DIAMETER ON DRIVE END IS 3")

(TOP OF SHAFT IS RECESSED 6MM FROM FACE OF DE FRAME)

(ARMATURE SLOT IS .185 WIDE)

****36/48V* (DBB "INS" GROUND)***

SLOT SHAFT MOTOR WITH BRUSH SENSORS

"WMS" PART NUMBER, MPR4002ARM

REPLACES NUMBERS, 398400, 907398

E481303X7047A, MPR4001 MPR4001A, MPR4002A

(APPLICATION) (YALE)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

***12V* (CW) HD (5" DIA.) "INS/GRD" MOTOR**

(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-5610

REPLACES NUMBERS,

W5610, ML-5006, ML5006S, ML-5006S, 46-2610

(APPLICATIONS)

(LEYMAN MFG., AND RAYMOND CORP.)

12V (CW) HD DBB (5" DIA.) "MDR" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-5208

REPLACES NUMBERS,

W5208, 46-2571, MDR-5001, MDR5001, MDR-5001S

(APPLICATIONS) (J.S. BARNES, & MISC. CUSTOMERS)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

NON-VENTILATED

.256"/ 6.50mm Shaft slot

12V (CW) HD (5" DIA.) "MDR" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, W-5208E

REPLACES NUMBER, 2200221, 2200706

W5208E, 46-2571E, MDR4101, MDR-4101

(APPLICATIONS) (J.S. BARNES, & MISC. CUSTOMERS)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

NON-VENTILATED

12V (CW) DBB HD (5" DIA.) "MDR" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, MDR5002RM

REPLACES, W-5208, W-5208E, MDR5002, 46-2571E
MDR4101, MDR-4101, 46-2571, MDR-5001, MDR-5001S ETC.

"MDR STYLE WITH INTERNAL COOLING FAN"

(APPLICATIONS) (J.S. BARNES, & MISC. CUSTOMERS)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

(For a new motor without a core charge use number MDR-5002N)

VENTILATED

.256"/ 6.50mm Shaft slot

12V (CW) DBB HD (5" DIA.) "MDR" MOTOR
(WITH SLOT SHAFT ARMATURE)

"WMS" PART NUMBER, MDR5002N

REPLACES, W-5208, W-5208E, MDR5002, 46-2571E
MDR4101, MDR-4101, 46-2571, MDR-5001, MDR-5001S ETC.

"MDR STYLE WITH INTERNAL COOLING FAN"

(APPLICATIONS)
(J.S. BARNES, & MISC. CUSTOMERS)

(THIS IS A NEW MOTOR WITHOUT A CORE CHARGE)

VENTILATED

.256”/ 6.50mm Shaft slot

***12V* (CW) HD (5” DIA.) “ML” TYPE MOTOR**
WITH SLOT SHAFT ARMATURE & USE’S THRU BOLT MOUNTING

“WMS” PART NUMBER, W-5304

REPLACES NUMBERS,
W5304, 46-2404, 46-2428, 46-3655, ML-4379, ML-4381, ML-5010

(APPLICATIONS)
(J.S. BARNES, HALDEX / BARNES)

(The drive end frame is for shipping only, remove to install motor)

.256”/ 6.50mm Shaft slot

***12V* (CW) HD (5” DIA.) “INS/GRD” MOTOR**
(WITH SLOT SHAFT ARMATURE)

“WMS” PART NUMBER, W-5305

REPLACES NUMBERS,

W5305, ML-4502A, ML-4502B, ML5001, ML-5001, ML-5001S

(APPLICATIONS)

(HALDEX BARNES, SCHRECK INDUSTRIES)

.256”/ 6.50mm Shaft slot

***24V* (CW) DBB (5” DIA.) SLOT/SHAFT MOTOR**

“WMS” PART NUMBER, W-5100H

REPLACES NUMBERS,

W5100H, W-5100, MMR5100H

(APPLICATIONS) (HYSTER EQUIPMENT)

(VENTILATED MOTOR WITH INTERNAL FAN)

**** 36 VOLT FIVE INCH DIAMETER PUMP MOTOR ****

.256”/ 6.50mm Shaft slot

***36V* (CW)HD (5” DIA.) DBB “MBD” MOTOR**

“WMS” PART NUMBER, MUG5101N

REPLACES NUMBERS,

MUG5001, 46-2812N, MUG-5101
MUG5101S, MUG5101, MUG-5101N, 46-2812

(APPLICATIONS)

(LEYMAN MANUFACTURING, J.S. BARNES, CLARK EQUIP.)

(CONCENTRIC, SCHAEFF, CROWN, ROSS, ACCESS PLATFORM)

(This is a 36V version of the W-5007)

***24V* (F & R) 5" DIA. HD (4) TERMINAL POST MOTOR WITH INSULATED GROUND.**

(.625"/ 15.87mm diameter shaft w/a bar key slot)

"WMS" PART NUMBER, W-5352

(UNIVERSAL FORWARD & REVERSING SHAFT MOTOR)

(This motor use's all 4 field coils for each direction)

THIS IS A 5" DIAMETER MOTOR WITH A BASE MOUNT

(The shaft is 2.5"/ 63.5mm out from the DE frame)

***24V* (F & R) 5" DIA. HD (4) TERMINAL POST MOTOR WITH INSULATED GROUND.**

(Special 26mm / 1.024" diameter shaft)

"WMS" PART NUMBER, W-5437

(UNIVERSAL FORWARD & REVERSING SHAFT MOTOR)

(This motor use's all 4 field coils for each direction)

THIS IS A 5" DIAMETER MOTOR WITH A BASE MOUNT

(Shaft is 88.01mm / 3.465" long)

SPECIAL "CW" / "HD" (16) SPLINE/SHAFT MOTOR

***36V* & "CW" *ROTATION* <> 5" DIAMETER MOTOR**

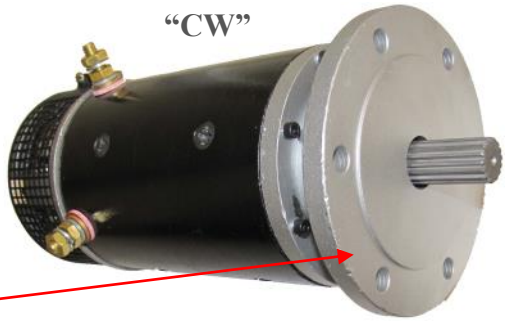
2 TERMINAL POSTS W/INSULATED GROUND

"WMS" PART NUMBER, MUG3616RM

JET ENGINE STARTER FOR NASCAR TRACK DRYING TRUCK

MUST SPECIFY VOLTAGE, 24V <> 36V <> 48V

(Customer must use their original DE frame assembly over)



SPECIAL "CCW" / "HD" (16) SPLINE/SHAFT MOTOR

***36V* & "CCW" *ROTATION* <> 5" DIAMETER MOTOR**

2 TERMINAL POSTS W/INSULATED GROUND

"WMS" PART NUMBER, MUG3620RM

JET ENGINE STARTER FOR NASCAR TRACK DRYING TRUCK

MUST SPECIFY VOLTAGE, 24V <> 36V <> 48V

(Customer must use their original DE frame assembly over)

56C FRAME

***12V* (4.5" DIA.) "PM" MOTOR WITH A**
2"/50.8mm Long .625"/ 15.87mm diameter shaft w/a 3/16 bar key slot

"WMS" PART NUMBER, W4BB-1601

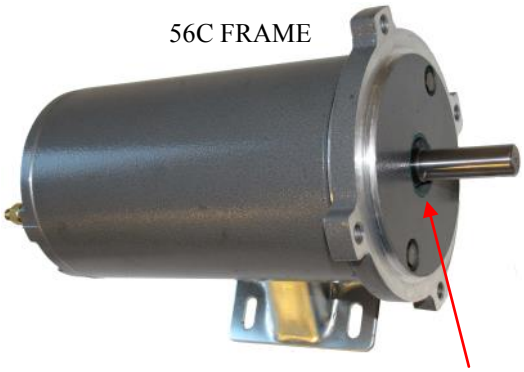
REPLACES, W4BB1601, 4BB-01601, 120Z402H/H2

(APPLICATIONS) CANIMEX, FLOW TEC, AIR FLOW AND OTHER SAND AND SALT SPREADERS)

(1/2HP) (1800 RPM) (AMPS 40) (LENGTH OF MOTOR IS 10.1")

(For a Lesson style of this motor use W-98985)

56C FRAME



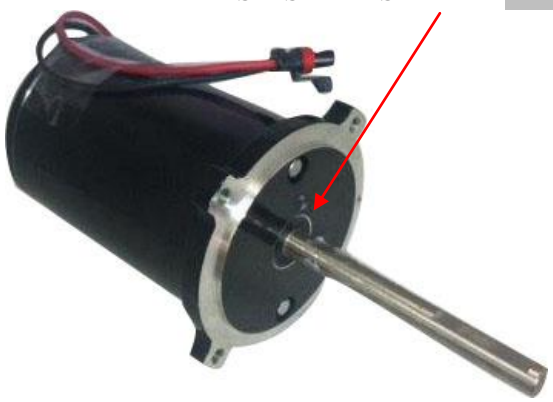
HAS A SHAFT SEAL

***12V* (4.5" DIA.) "PM" LEESON STYLE MOTOR,**
2"/50.8mm Long .625"/ 15.87mm diameter shaft w/a 3/16 bar key slot

"WMS" PART NUMBER, W-98985

REPLACES NUMBERS, C4D17NK73, A900906, 108046.00, 172737
108047.00, 108046, 108047, 17737, 50090, 108051, 120Z402H/H2

(APPLICATIONS)
CANIMEX & AIR FLOW SPREADERS, FLO-TEC / SAND AND SALT SPREAD/MOTOR
(1/2HP) (1800 RPM) (FULL LOAD AMPS 40) (LENGTH OF MOTOR IS 8.5"/215.9mm)
LEESON STYLE OF SCOTT MOTOR W4BB-1601



***12V* "PM" SHAFT MOTOR, *1/2HP* (4.5" DIA.)**
DBB "PM" MOTOR WITH .625"/ 15.87mm DIAMETER SHAFT

Has two wires with connector plug on the end

"WMS" PART NUMBER, W-98987

REPLACES NUMBERS, D-6887

(APPLICATIONS) SNOW/EX, (SP9300 & SP9500 MODEL SPREADERS)

(MOTOR IS 8.5"/215.9mm LONG) (SHAFT LENGTH IS 5.8"/ 147.32mm)

(1/2HP) (800 RPM) (FULL LOAD AMPS 16)

12V PM 2.75" DIAMETER SPREADER MOTOR

"WMS" PART NUMBER, W-2809

REPLACES NUMBERS, 2809-570006

P-3035, 2809670004, 38133202, 94996, 4204 Etc.

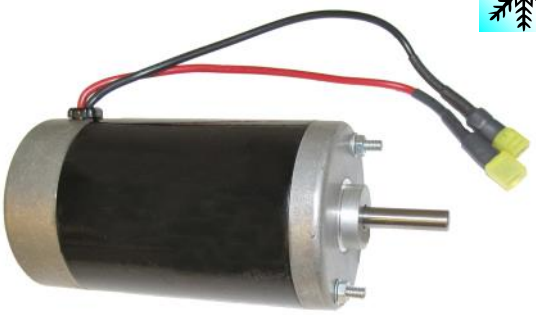
(APPLICATIONS) (WESTERN & FISHER SALT SPREADERS)

(FROM COMM END TO DRIVE END MOTOR LENGTH IS 5")

CONNECTOR WIRES ARE 7.5" LONG

THE 5mm MOUNTING BOLTS ARE ON 59mm CENTERS

(Shaft is 1.5"/ 38.1mm long & .3125"/ 7.93mm diameter w/a flat area)



12V (PM) (2) POST SLOT SHAFT MOTOR

"WMS" PART NUMBER, W-6800

REPLACES, 2201073, 2201141, 12217, HYD12217

(APPLICATIONS) (BOSS SNOW PLOWS)

FOR BOSS HYD12209 POWER UNIT

(DBB motor with the two .250 terminals out backside of CE frame)

Shaft slot is 0.197"/ 5.00mm
and is.237"/ 6.00mm past bearing

*** *SALT SPREADER MOTOR FOR BUYERS* ***

12V *"BALL BEARING DE FRAME"*

"WMS" PART NUMBER, W-6832

REPLACES, W8832, 3006832, W-8832, BP801-G01

(APPLICATIONS)

(3" DIA. BUYERS SALT SPREADER)

(This 4.5" long motor comes with wires and plugins as shown)

Shaft slot is 0.100"/ 2.54.mm
Mounting flange has 3" centers

12V SALT SPREADER MOTOR (2) WIRE MOTOR

(2.5"/63.5mm long, .625" dia. shaft w/a 13/64" pin hole)

"WMS" PART NUMBER, P56SX049

(CONTINOUS DUTY SPREADER MOTOR)

REPLACES NUMBERS, 0415005100, 500049, 34102

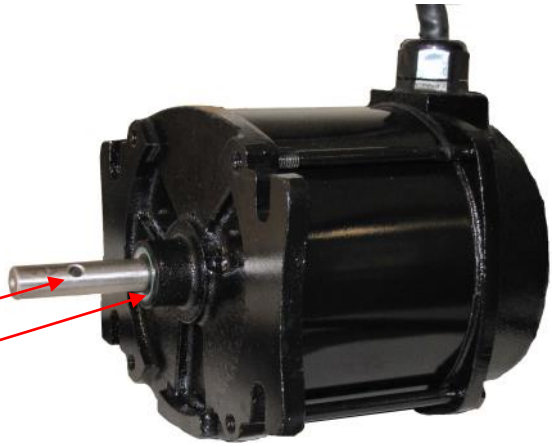
(APPLICATIONS) (MEYER & SWENSON SPREADER)

(MOTOR HAS A SIX FOOT LONG CONNECTING CABLE AND THE DRIVE END FRAME HAS A SHAFT SEAL)

(The hole in the shaft is 1.140 from the outer end)

(The drive end frame has a shaft seal)

(650 RPM <> 20 AMP. <> 1/2 HP)



12V * (F & R) (2) WIRE <> 3"/76.2mm Dia. PM MOTOR

"WMS" PART NUMBER, W-8420

REPLACES NUMBERS,

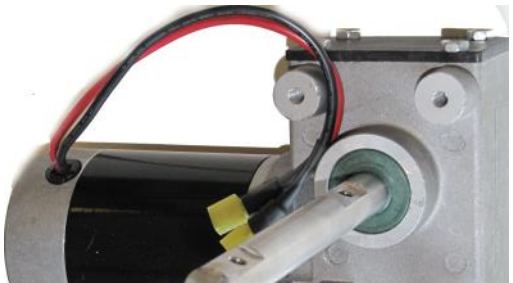
D-6106, 1225542C, 867-97-1163-0062, W-06106, 9711630062, 1225542, D6827, W8420, 8679711630062, 97-1163-0062, 06106, D6106, D6319, W-06106, D6320, D6410

(APPLICATIONS)

(FOR TRYNEX, CURTIS, LESCO & SNOW X SALT SPREADERS)

(Note: this unit is same the length as the OE motor , 4.5")

(Shaft length is .500"/ 12.7mm)



12V * (F & R) (2) WIRE <> 3" PM MOTOR

"WMS" PART NUMBER, W-8422

(Complete with the gearbox)

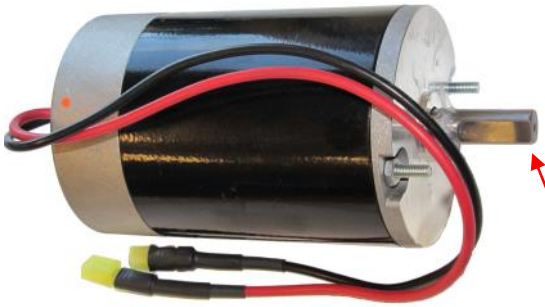
REPLACES NUMBERS,

D-6106, 1225542C, 867-97-1163-0062, W-06106,9711630062, 1225542, D6827, 8679711630062 97-1163-0062, 06106, W8422, D6106, D6319, D6320, D6410

(APPLICATIONS)

(FOR TRYNEX, CURTIS, LESCO & SNOW X SALT SPREADERS)

(Note: this unit is the same length as the OE motor <> 4.5"/ 114.3mm)



* 12V * (2) WIRE PM

SHAFT MOTOR FOR SPINNER

"WMS" PART NUMBER, W-8430

REPLACES NUMBERS,

Z108116, W8430, WC2087Z108116

(APPLICATIONS)

(WESTERN TORNADO AND POLY CASTER)

(SHAFT IS 1.5"/38.1mm LONG AND .500"/ 12.7mm DIAMETER WITH A FLAT AREA FOR A SET SCREW)

(CONNECTOR WIRES ARE 15" LONG AND

THE 10/32 MOUNTING BOLTS ARE ON 71mm CENTERS)

(This motor is 3.25"/82.55mm in diameter)

NEW *12V* *(INS) GROUND* (2) POST SPREADER MOTOR
FOR SNO-WAY STYLE 1/3 & 1/2 HP SALT SPREADER MOTOR
12V CW * *"DBB"*

"WMS" PART NUMBER, W-8015

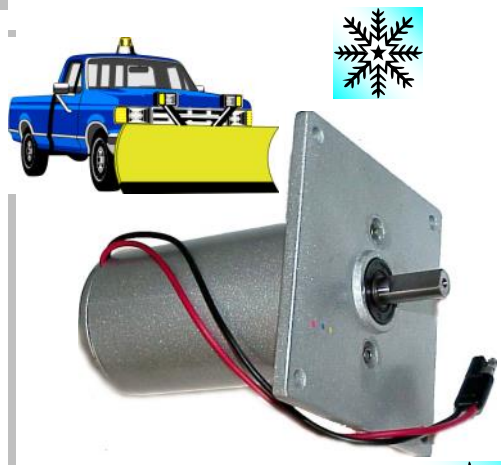
REPLACES , 113-0675092046, 96105846, 301217182D, 3D1217182D etc.
(APPLICATION) (SNO-WAY 6 & 9 RECEIVER SALT SPREADERS)
(WITH SEALS AND O-RINGS TO HELP KEEP WATER OUT)
SHAFT IS 1.8"/ 45.72mm LONG AND .500"/ 12.7mm IN DIAMETER

DE FRAME HAS FOUR 5/16X18 THREADED MOUNT HOLES WITH 2.625" CENTERS

3" DIA. SALT SPREADER MOTOR
12V FOR "BUYERS" EQUIPMENT

"WMS" PART NUMBER, W-8018

REPLACES, W-8017, EX0712, BPC12, 062804, 3005414, 3005693
EX-0712, BP801-0058, BP801-005B, BPC-12, 300-5414, 300-5693 etc.
(APPLICATIONS) (BUYERS SALT SPREADERS)
(Shaft diameter is .500"/ 12.7mm with flat area for a set screw)
BALL BEARING AT DE *(WITH SEALS & RINGS TO HELP KEEP WATER OUT)*



1.5"/ 38.1mm long shaft

**12V* 3" DIA. "PM" MOTOR* FOR WESTERN AND FISHER STYLES SALT SPREADER EQUIPMENT

"WMS" PART NUMBER W-8815

REPLACES NUMBERS, 064953, 65061, 65416, 022-064953-7-022
0220649537022, F9524, F9524A, 069616787209, 06961678,
054-94-1242-0434 0549412420434, 5061, 107974490221, 1220182
1220182H, 1409019, 301220182, 3012201820, 801220182H,
301220182H, 3D-1220182H, 3D1220182, 3D12201828, 3D1220182D etc.
(WITH SEALS AND O-RINGS TO HELP KEEP WATER OUT)
SHAFT IS 1.8"/ 45.72mm LONG AND .500"/ 12.7mm IN DIAMETER

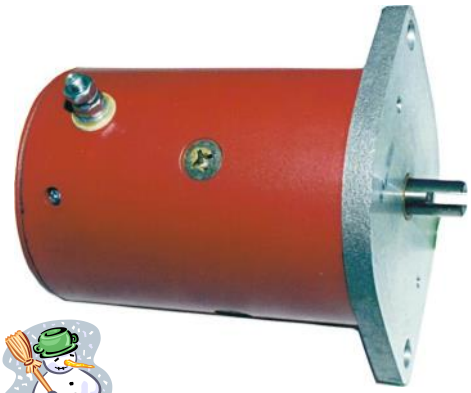
.500 Dia. 1.8" LONG SHAFT W/A FLAT AREA FOR A SET SCREW

**** REPLACEMENT SALT SPREADER MOTOR ****
12V FOR MEYERS, BUYERS ETC. EQUIP.

"WMS" PART NUMBER, W-8805

REPLACES NUMBERS, M-2100, M-5000, W-8800, 4854420M048HM
HM4854420, HM02223, 485440, 690-060, 0462800108, 9107, LMY0002
36218, 0202000, 430-21001, 26232A, B422340X6329 etc.
(APPLICATIONS) (MEYERS, BUYERS, ETC. SALT SPREADERS)
(WITH SEALS AND O-RINGS TO HELP KEEP WATER OUT)
(Shaft diameter is .500"/ 12.7mm w/woodruff key) (1000 RPM)

Shaft is 1.25"/ 31.75mm long



*"EARLY" WESTERN STYLE *12V* SNOW PLOW MOTOR WITH EXPOSED DRIVE SLOT SHAFT.*

12V CW " HEAVY DUTY (4) FIELD "

"WMS" PART NUMBER, W-8940

REPLACES 1020, 25556, 46-806, 6067, 82-6853, 8570 W8940, 540-007, DCM-0012, PR2-0063N, M-2900, AND MEZ-7002

(APPLICATIONS) (EARLY WESTERN SNOW PLOWS)

(Shaft is 1"/ 25.4mm long & the slot is .197"/ 5.mm wide)

**** "INSULATED" GROUND ****

FISHER & WESTERN STYLE *12V* SNOW PLOW MOTOR

FISHER & WESTERN PLOW MOTOR WITH OIL SEAL AT DE

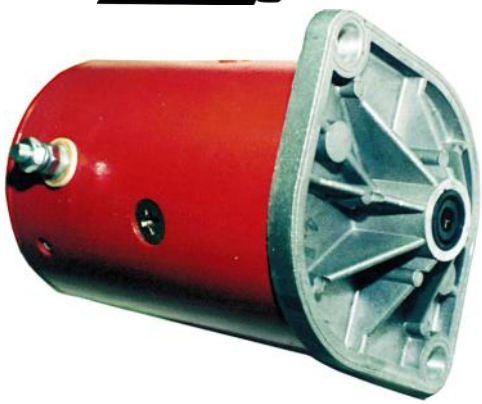
12V CW " HEAVY DUTY (4) FIELD "

"WMS" PART NUMBER, W-6294D

REPLACES NUMBERS, MUE-6103, MUE-6111, MUE-7001, MKW-4009, W-8994, 540-002, WAPSA, MM18896, 8501, 50133, 54133, 56058, 56062, 56133, 56398, 56410, W6294, 58058, 58082, W-8994, 46-2473, 46-2584, 46-3938, 9130450036, 9130450083

(APPLICATIONS)

(TWO POST FISHER AND WESTERN SNOW PLOWS W/DE)



O-RING SEALED AT CE & DE

FISHER & WESTERN STYLE *12V* SNOW PLOW MOTOR

FISHER & WESTERN PLOW MOTOR WITH OIL SEAL AT DE

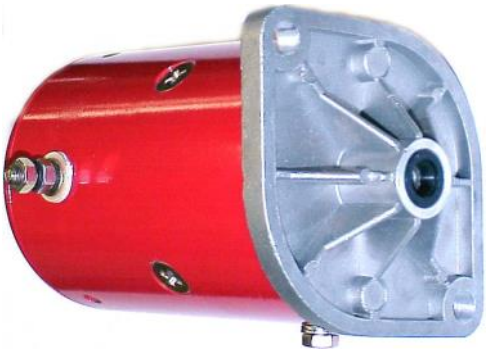
12V CW " HEAVY DUTY (4) FIELD "

(WITH "RED" FIELD CASE)

"WMS" PART NUMBER, W-8994

REPLACES, MKW-4009, MUE-6103, MUE-6111, MUE-7001, 540-002, W-9294 MM18896, PR2-0058N, DCM0011, M-3000, 50133, 54133, 56058, 56062, 56133, 56398 56410, 58058, 8501, 58082, W8994, 46-2584, 46-3938, 9130450036, 9130450083, A-5819

(APPLICATIONS) (FISHER AND WESTERN SNOW PLOWS)



FISHER & WESTERN STYLE *12V* SNOW PLOW MOTOR

FISHER & WESTERN PLOW MOTOR WITH OIL SEAL AT DE

12V CW " HEAVY DUTY (4) FIELD "

(THIS IS A "DBB" MOTOR)

"WMS" PART NUMBER, W-8994D

REPLACES, "ALL" NUMBERS LISTED ABOVE FOR W-8994

(APPLICATIONS) (FISHER AND WESTERN SNOW PLOWS)

(NEW "DBB" STYLE)

(CW) *12V* (3") *PERMANENT MAGNET MOTOR*
FOR *"NORTHMAN"* SNOW PLOW EQUIPMENT

"WMS" PART NUMBER, W-8012

REPLACES, 198684, 46-2482, MGL-4007, MKW-4009, MKW-4011, W-8912

(APPLICATIONS)
("NORTHMAN" SNOW PLOWS)
(STONE INDUSTRIES, FENNER STONE)

*** NEW STYLE WITH***
BALL BEARING FRAMES

.256"/ 6.50mm Shaft slot

(CW) *12V* (3") *PERMANENT MAGNET MOTOR*
FOR *"NORTHMAN"* SNOW PLOW EQUIPMENT
(ARMATURE HAS A .256" SLOT)

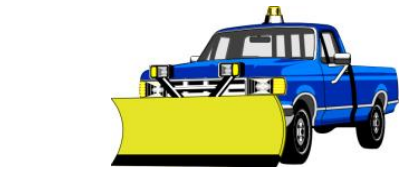
"WMS" PART NUMBER, W-8912

REPLACES NUMBERS, 11032A, 198684, 46-2482,
MGL-4007, W8912, MKW-4009, MKW-4011, M-4200

(APPLICATIONS) ("NORTHMAN" SNOW PLOWS)
(STONE INDUSTRIES, FENNER STONE)
(EARLY WESTERN PLOWS WITH THE 3" DIA. MOTOR)

(FOR A (CW) MOTOR LIKE THIS WITH A 3/16" ARMATURE SLOT USE "WMS" PART NUMBER, W-8812)

(FOR A HD MOTOR WITH BALL BEARING DE USE NUMBER W-8012)



***12V* "GOLD" STYLE (9) SPLINE (CW)**

(DBB SNOW PLOW MOTOR)

"WMS" PART NUMBER, W-9787

REPLACES, D-6000, DCM-0013, T-8789, 1185AC, 1787AC,
520-001, 1931AC, 13850, 25169, P46340, M-3400, FN2-0001N,
MUE-6114S, 46-4048, A150265, 222423, AMT0097, 02-1020.
(APPLICATIONS) (FENNER / SPX, SNOWAY SNOW REMOVAL EQ.)
(BOSS SNOW PLOW WITH SPX / FENNER PUMP)

Overall length 6.9"

*** 12V* (CW) INS/GRD/DBB (2) POST PLOW MOTOR ***

ISKRA MOTOR FOR MEYERS QUICK LIFT STYLE PLOWS

"WMS" PART NUMBER, W-5981

REPLACES NUMBERS, W-5695, AMJ-4739, 11.212.981
11212981, AMJ4739, W-5692, W-5698, W5981, 15829, 15841
(APPLICATION) (SPX, FENNER FLUID POWER PUMPS)
(FOR THE MEYER E-57, E-57-H, E-60-H Etc.)

Has recess in face of DE

.256"/ 6.50mm Shaft slot

.256”/ 6.50mm Shaft slot

12V “CCW/DBB” (2) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

“WMS” PART NUMBER, W-8213

REPLACES, W8213, S203T*5030, 281740-01, S203T5030, 39200517

(APPLICATIONS) SPX, MTE & MAXON PUMPS

(SLOT SHAFT IS OUT .750”/ 19.05mm FROM BEARING RACE)

(FOR A MOTOR WITH “OLP” USE NUMBER MUE6301D)

CUT DOWN DE DIAMETER
OF FIELD FRAME IS 4.150

.256”/ 6.50mm Shaft slot

*** *“HD” SNOW PLOW MOTOR FOR BOSS PLOW* ***

12V “CW” (HD) “*DBB*”

“WMS” PART NUMBER, W-9984

REPLACES, W9984, W-8984, 430-22021, 2200720, MSC-1563,

(APPLICATIONS) (J.S. BARNES PUMP)

(BOSS SNOW PLOW W/ BALL BEARING AT THE DRIVE END)

(THIS IS A “HD / DBB” VERSION OF THE W-8984)

** 12V * PM “INS/GRD” SPREADER MOTOR W/.625” DIA. SHAFT*

REPLACES, MANY MISC. SPREADER APPLICATIONS

“WMS” PART NUMBER, W-8858

(1/2 HP <> 1000 RPM <> .625 Diameter Shaft with 3/16 bar key slot

(Shaft length is 1.5”/38.1mm long and .625”/ 15.87mm diameter)

(APPLICATIONS) (MISC. SPREADERS)

SEALS AND O-RINGS TO HELP KEEP WATER OUT)

(The four holes in the DE frame are 4.172”/ 105.97mm spread across) (56C)

THRU BOLTS ARE 3 & 9

**12V* (CW) INS/GRD 2 POST / “2” FIELD COIL*
MOTOR WITH A BALL BEARING CE FRAME

“AMETEK” PART NUMBER MUE6306

REPLACES NUMBERS,
W-6306, W-6306D, 56363, 000339, 10779, 160-844A, MUE6306S

(APPLICATIONS) LATE FISHER & WESTERN SNOW PLOWS

(ARMATURE SHAFT SLOT SIZE IS 5mm/ .0197”)

12V (CW) INS/GRD 2 POST / "4" FIELD COIL*
MOTOR WITH A BUSHING CE FRAME

REPLACES NUMBERS,

MUE6206AS, MUE6206A, 66503, W6206, MUE-6206A, 46-4175, W-6206

"WMS" PART NUMBER, W-6206

(APPLICATIONS) (LATE FISHER AND WESTERN SNOW PLOWS)

(ARMATURE SHAFT SLOT SIZE IS 5mm/ .0197")

THRU BOLTS ARE 6 & 12

12V (CW) INS/GRD 2 POST / "4" FIELD COIL*
MOTOR WITH A BALL BEARING CE FRAME

REPLACES NUMBERS,

MUE6206AS, MUE6206A, 66503, W6206, MUE-6206A, 46-4175, W-6206

"WMS" PART NUMBER, W-6206D

(APPLICATIONS) (LATE FISHER AND WESTERN SNOW PLOWS)

(ARMATURE SHAFT SLOT SIZE IS 5mm/ .0197")

THRU BOLTS ARE 6 & 12

12V (CW) INS/GRD 2 POST / "4" FIELD COIL*
MOTOR WITH A BUSHING CE FRAME

Same as the W-6206 except for the thru bolt position

"WMS" PART NUMBER, W-6306

REPLACES, W6306D, MUE6306, W-6306, MUE-6306, MUE6306S, 56363

(APPLICATIONS) (LATE FISHER AND WESTERN SNOW PLOWS)

(ARMATURE SHAFT SLOT SIZE IS 5mm/ .0197")

THRU BOLTS ARE 3 & 9

12V (CW) INS/GRD 2 POST / "4" FIELD COIL*
MOTOR WITH A BALL BEARING CE FRAME

Same as the W-6206D except for the thru bolt position

"WMS" PART NUMBER, W-6306D

REPLACES, W6306D, MUE6306, W-6306, MUE-6306, MUE6306S, 56363

(APPLICATIONS) (LATE FISHER AND WESTERN SNOW PLOWS)

(ARMATURE SHAFT SLOT SIZE IS 5mm/ .0197")

THRU BOLTS ARE 3 & 9

*** 12V * *(CCW)* 3" DIAMETER MOTOR**

SLOT SHAFT MOTOR WITH .256"/6.50mm SLOT (.8KW)

"WMS" <u>PART NUMBER, W-8085</u>

REPLACES NUMBERS,

W8085, 39200485

(APPLICATIONS)

(MTE PUMPS, BLIZZARD SNOW PLOWS)

***12V* 3" DIAMETER "PM" CW SLOT SHAFT MOTOR**

WITH "METRIC THRU BOLTS" AT THE 3 & 9 POSITION

"WMS" <u>PART NUMBER, W-6804</u>

REPLACES NUMBERS, W6804, 27753, F000MM0804

(This motor has Metric 5mm thru bolts)

(Shaft is 0.625"/ 15.87mm in diameter with a .197"/ 5.0mm slot)

(Original motor has the terminals out the sides of the motor)

WESTERN & FISHER SNOW PLOW (HOMESTEADER, SUBURBANITE)

.256"/ 6.50mm Shaft slot

12V "CW" (HD) "*DBB*"

"WMS" PART NUMBER, W-8991

("MEYER" QUICK LIFT E-50 & E-60 SNOW PLOWS)

REPLACES , 15727, M2800, MUE-6209, DCM00015, 2869AB

W8991, E-60, 46-4196, 15689, 82-7852, 8451, AMT0351, 2529AB, 2529AC

(APPLICATIONS)(DIAMOND SNOW PLOWS & MEYER QUICK LIFT)

(For the E-57 & E-57H two terminal post

"Insulated Ground" motor order Western motor number = W-5692)

Has two oval recesses in face of DE

.256"/ 6.50mm Shaft slot

* 12V* *CW (INS) GROUND "DBB"* (2) POST PLOW MOTOR *

FOR MEYERS QUICK LIFT STYLE MOTOR,

"WMS" PART NUMBER, W-5692

REPLACES, W5692, W5695, W-5698, 15841

(APPLICATION) (FENNER FLUID POWER PUMP)

(FOR THE MEYER E-57, E-57-H, E-60-H Etc.)

(Drive end frame has two oval recesses in the face)

12V (CCW) "*DBB*" HD / 4 FIELD SLOT SHAFT

MOTOR WITH *"INSULATED" GROUND* (2) POST

"WMS" PART NUMBER, W-8526

(FOUR SERIES COILS FOR HIGH RPM & POWER)

REPLACES, S203T*5051, 39200526, S203T5051

(APPLICATIONS) (HINIKER SNOW PLOWS, MTE PUMPS)

ORIGINAL EQUIPMENT

ARMATURE SLOT SIZE

IS 3/16"/ 0.1875 / 4.76mm

(CCW) *12V* *(3") DIAMETER PM MOTOR WITH .1875"/ 4.762mm SLOT*

"OEM"/"DBB" SNOW PLOW MOTOR FOR "MEYERS" EQUIP.

"WMS" PART NUMBER, W-8032D

REPLACES, 540-000, M-4000, MKW4007, W8032B, MGL-4005, MGL-4105, CM6579, MM48826, MM50552, MM50575 W8932, 15054, DCM-0003, 82-7850, 551046, 551046A, 0222328M048HM, 5055240M030MM, 4882640M030MM, W-8932

(APPLICATION) ("MEYER" SNOW PLOWS)

(NOW WITH GROUNDING POST ON THE CE FRAME)

THIS MOTOR HAS A GROUND TERMINAL AT THE COMMUTATOR, IT DOES NOT REQUIRE A GROUND WIRE CONNECTED TO IT, BUT IS THERE BY CUSTOMER REQUEST & CAN BE USED TO INSURE THE BEST GROUND BRUSH CONNECTIONS POSSIBLE.

Motors have 1/4X20 thru bolts

ARMATURE SLOT SIZE

IS 3/16"/ 0.1875 / 4.76mm

*OLDER "UT" STYLE (CCW) *12V* (3") PM*

SNOW PLOW MOTOR FOR "MEYERS" EQUIPMENT

"WMS" PART NUMBER, W-8932

REPLACES, SAME NUMBERS AS LISTED FOR THE W-8032B

(APPLICATIONS) ("MEYER" SNOW PLOWS)

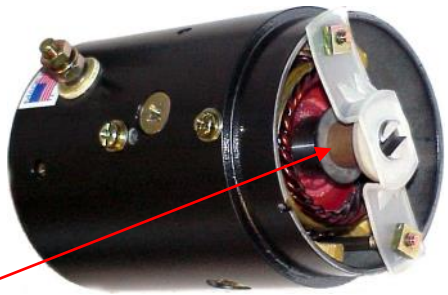
**** SNOW PLOW MOTOR FOR BOSS PLOW ****

****CW*/*12V****

"WMS" PART NUMBER, W-8958

REPLACES, M-2600, 46-812, 46-2432, 6046
W8958, MDY-6123, MDY-6125, MDY-7030, MDY-7058
(APPLICATIONS) (J.S. BARNES PUMP)
(BOSS SNOW PLOW WITH BUSHING AT THE DRIVE END)

.256"/ 6.50mm Shaft slot



USE'S A BUSHING AT DE

CUT DOWN DE DIAMETER OF FIELD FRAME IS 4.150

**** SNOW PLOW MOTOR FOR BOSS PLOW ****

****CW ** (4) COIL **12V ****

"WMS" PART NUMBER, W-8984

REPLACES, W8984, 220-0720, MSC-1563
(APPLICATIONS) (J.S. BARNES PUMP)
(BOSS SNOW PLOW W/ BALL BEARING AT THE DRIVE END)
(FOR A "HD / DBB" MOTOR USE NUMBER W-9984)

BALL BEARING AT DE

** EARLY STYLE *12V* SNOW PLOW MOTOR FOR **

EARLY MEYERS PLOW MOTOR, 4 1/2" DIA.
***12V* "CW" (4) FIELD COILS**

"WMS" PART NUMBER, W-7001

REPLACES, W7001, 46-262, 46-585, 22005221, MEZ-6101, MEZ-7001
(APPLICATIONS)
("EARLY" MEYER" SNOW PLOWS)
(Has half round slot in shaft to hold the offset cam to the end of the shaft)
(Shaft length from the DE frame is 1.125"/ 28.57mm)

**12V* "CCW" (DBB) MOTOR*

"WMS" PART NUMBER, W-8013B

REPLACES NUMBERS, 08013, M326-0189
W8013B, W-8013C, M-3260189, AMJ-4735, 11.216.088, 3260189

(APPLICATIONS)
SPX, MTE & MONARCH PUMPS

(.256" SLOT SHAFT IS OUT .750"/ 19.05mm FROM BEARING RACE)
(SWITCH HOLES ARE OFFSET TO THE LEFT OF THE TERMINAL)

EASY CHANGE BRUSHES

.256”/ 6.50mm Shaft slot

* 24V* *(INS) DBB GROUND* (2) POST PLOW MOTOR
FOR MEYERS QUICK LIFT STYLE MOTOR,
24V “CW” “*DOUBLE BALL BEARING*”
“WMS” PART NUMBER, W-5694

REPLACES, THIS IS A 24V VERSION OF THE W-5692

(APPLICATION) (MEYERS SNOW PLOW, SPX PUMPS)

(Drive end frame has two oval recesses in the face)

ORIGINAL EQUIPMENT

24V CCW

ARMATURE SLOT SIZE
IS 3/16”/ 0.1875 / 4.76mm

(NEW “OE” MEYER “CCW/DBB” PLOW MOTOR)
24V (3”) DIAMETER PM MOTOR WITH .1875”/ 4.762mm SLOT
“WMS” PART NUMBER, W-8024D

REPLACES, 0551047, 15338, M0551047, M0551047A

(MOTOR HAS 1/4 X 20 THRU BOLTS)

*(*NEW* NOW WITH GROUNDING POST ON THE CE FRAME)*

THIS MOTOR HAS A GROUND TERMINAL AT THE COMMUTATOR, IT DOES NOT REQUIRE A GROUND WIRE CONNECTED TO IT, BUT IS THERE BY CUSTOMER REQUEST & CAN BE USED TO INSURE THE BEST GROUND BRUSH CONNECTIONS POSSIBLE.

(APPLICATION) (24V MEYER SNOW PLOW)

EASY CHANGE BRUSHES

.256”/ 6.50mm Shaft slot

*24V * SNOW PLOW MOTOR FOR *
MEYERS QUICK LIFT MOTOR, 4 1/2” DIA.
24V “CW” “*DBB*”
“WMS” PART NUMBER, W-8771B

REPLACES, W8771, M2800-24V, W-8991-24V

(APPLICATION) (MEYER QUICK LIFT SNOW PLOW)

EASY CHANGE BRUSHES

* 24V* *(INS) GROUND* (2) POST PLOW MOTOR *
FOR MEYERS QUICK LIFT STYLE MOTOR
24V “CW” “*DBB*”
“WMS” PART NUMBER, W-9798

REPLACES, W9798, 1798AC

(APPLICATION) (FENNER FLUID POWER PUMP)

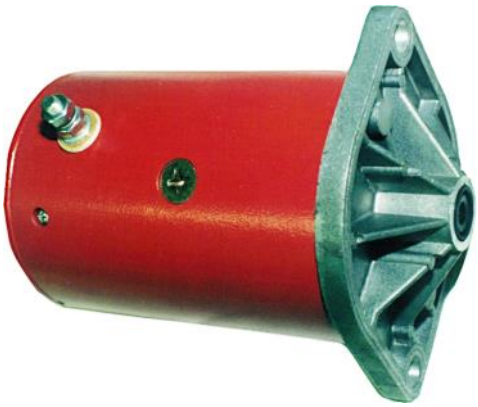
*** 24V* (CW / INS) GROUND DBB (2) POST PLOW MOTOR**
FOR MEYERS QUICK LIFT STYLE MOTOR
"WMS" PART NUMBER, W-5984
REPLACES NUMBERS, AMJ-4739-24V, 11.212.981-24V
W-5694, W-5981-24V, 15829-24V, 15841-24V
(APPLICATION) (SPX, FENNER FLUID POWER PUMPS)
(Drive end frame has two oval recesses in the face)
(FOR THE MEYER E-57, E-57-H, E-60-H Etc.)

.256"/ 6.50mm Shaft slot

Has two oval recesses in face of DE

"EARLY" WESTERN STYLE *24V* SNOW PLOW MOTOR
WITH EXPOSED DRIVE SLOT SHAFT
***24V* CW " HEAVY DUTY (4) FIELD "**
"WMS" PART NUMBER, W-8907
REPLACES NUMBERS,
W8907, M-2900-24V, W-8940-24V
(APPLICATIONS)
(EARLY *24V* WESTERN SNOW PLOWS)
(Shaft is 1" / 25.4mm long and the slot is .197"/ 5.mm wide)

****FISHER & WESTERN STYLE *24V* SNOW PLOW MOTOR****
WESTERN PLOW MOTOR WITH OIL SEAL AT DE
***24V* CW " HEAVY DUTY (4) FIELD "**
"WMS" PART NUMBER, W-8908D
REPLACES, W8908, M3000-24V, W-8994-24V
(APPLICATIONS) (24V FISHER & WESTERN SNOW PLOWS)



****FISHER & WESTERN STYLE *24V* SNOW PLOW MOTOR****
WESTERN PLOW MOTOR WITH OIL SEAL AT DE
***24V* CW " HEAVY DUTY (4) FIELD "**
"WMS" PART NUMBER, W-9226
REPLACES , W9226, W-6294-24V, W-9294-24V
(APPLICATIONS) (24V FISHER & WESTERN SNOW PLOWS)

**24V* (CW) INSULATED GROUND 2 POST / 4 FIELD COIL*
MOTOR WITH A BUSHING CE FRAME

"WMS" PART NUMBER, W-9228

REPLACES NUMBERS,

W9228, W-6206-24V, MUE6206-24V, W-6306-24V

(APPLICATIONS) (24V FISHER & WESTERN SNOW PLOWS WITH THRU BOLTS AT THE 6 & 12 POSITION)

(ARMATURE SHAFT SLOT SIZE IS (.197"/ 5.00mm)

**24V* (CW) INSULATED GROUND 2 POST / 4 FIELD COIL*
MOTOR WITH A BALL BEARING CE FRAME

"WMS" PART NUMBER, W-9228D

REPLACES NUMBERS,

W9228, W-6206-24V, W9228D, MUE6206-24V, W-6306-24V

(APPLICATIONS) (24V FISHER & WESTERN SNOW PLOWS WITH THRU BOLTS AT THE 6 & 12 POSITION)

(ARMATURE SHAFT SLOT SIZE IS (.197"/ 5.00mm)

**24V* (CW) INSULATED GROUND 2 POST / 4 FIELD COIL*
MOTOR WITH A BALL BEARING CE FRAME

"WMS" PART NUMBER, W-9229D

REPLACES NUMBERS,

W9229, W-6306-24V, W9229D, MUE6306-24V, W-6306-24V

(APPLICATIONS) (24V FISHER & WESTERN SNOW PLOWS WITH THRU BOLTS AT THE 3 & 9 POSITION)

(ARMATURE SHAFT SLOT SIZE IS (.197"/ 5.00mm)

**24V* (CW) INSULATED GROUND 2 POST / 4 FIELD COIL*
"HD" MOTOR WITH A BALL BEARING CE FRAME

"WMS" PART NUMBER, W-9230D

REPLACES, W9228, W-6206-24V, W9228D, MUE6306-24V

(APPLICATIONS) (24V FISHER & WESTERN SNOW PLOWS WITH THRU BOLTS AT THE 6 & 12 POSITION)

(ARMATURE SHAFT SLOT SIZE IS (.197"/ 5.00mm)

(This motor has higher RPM's and is stronger than the W-9228D)

24V* (BI-DIRECTIONAL)* **(3 POST) (DBB) MOTOR,
HAS 0.750" SHAFT WITH WOODRUFF KEY SLOT.

"WMS" PART NUMBER, W-6430

REPLACES BALDOR MOTOR NUMBERS,
W6430, 12446, S12446, 12612, S12612

(MOTOR HAS A 56C DRIVE END FRAME)
(Shaft is 1.875"/ 47.62mm long with a key slot)

56C FRAME

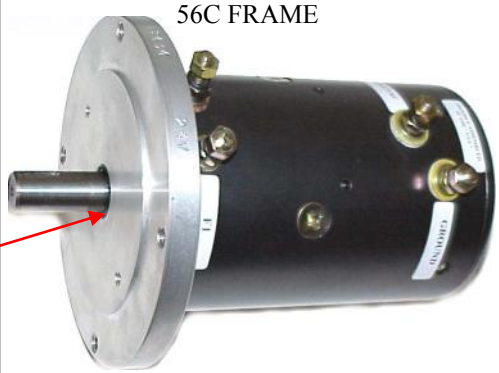
24V* "HD" / DBB (BI-DIRECTIONAL)* **MOTOR,
HAS .750" SHAFT WITH WOODRUFF KEY SLOT.
(INSULATED GROUND 4th TERMINAL POST)

"WMS" PART NUMBER, W-7434

REPLACES BALDOR MOTOR NUMBERS,
W7434, 12446, S12446, 12612, S12612,
(MOTOR HAS A SEAL AT THE DE / SHAFT AREA)

(Shaft is 1.875"/ 47.62mm long with a key slot)

56C FRAME



24V* CCW* (INS/GRD) MOTOR *WITH A
.625"/ 15.87mm DIAMETER SHAFT
AND A 3/16" BAR KEY SLOT (DBB)

"WMS" PART NUMBER, W-6920

(APPLICATIONS) (MISCELLANEOUS EQUIPMENT)

(MOTOR HAS A 56C FACE DRIVE DE FRAME)

56C FRAME

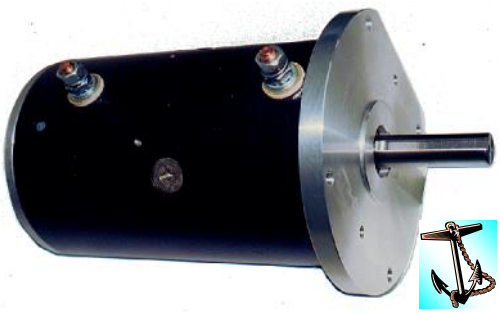
Shaft is 2"/ 50.8mm long

24V* (BI-DIRECTIONAL) DBB* **(4 POST)
SHAFT MOTOR W/A 3/16"/.187mm BAR KEY SLOT

"WMS" PART NUMBER, W-4322

REPLACES NUMBERS,
XP2335, M99916, 10-4016, 5BC58JBS6141B

(.625"/ 15.87mm diameter shaft length is 2"/ 50.8mm long)



12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) (2) POST MOTOR
WITH A .625" DIA. SHAFT WITH BAR KEY SLOT

"WMS" PART NUMBER, W-6929

REPLACES, MISC. WINCH MOTORS,

(APPLICATIONS) (ANCHOR LIFTS FOR YACHT'S, ETC.)
*(* LONGER "HD" ARMATURE & FIELD COILS *)*

(SHAFT LENGTH FROM THE DRIVE END FRAME IS 2"/ 50.8mm)

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) (3) POST MOTOR WITH A
2.5" LONG, .625" DIA. SHAFT WITH KEY SLOTS. (2.5 HP)

"WMS" PART NUMBER, W-8929

REPLACES, W8929, 418010, "NIW" MOTORS,
AND ALL FORD STARTER CONVERSIONS,

(APPLICATIONS)
(BURIAL VAULT LIFT EQUIPMENT FOR CEMETERIES ETC.)
(SHAFT LENGTH FROM THE DRIVE END FRAME IS 2.5"/ 63.5mm)

56C FRAME

12V *(DBB) BI-DIRECTIONAL*
(FORWARD & REVERSE) (3) POST "HD" MOTOR
WITH A .625" DIA. SHAFT WITH A 3/16 BAR KEY SLOT
(THE OFFSET POST IS THE INSULATED GROUND)

"WMS" PART NUMBER, W-8930B

REPLACES, W8930B, A3614-1264-1-560, M-2400, W-8930
(APPLICATIONS) (PACIFIC SCIENTIFIC, APPLIED MOTORS)
(LECTRODYNE LOBSTER POT HAULER, ANCHOR LIFTS, ETC.)

(THIS IS A "INSULATED" GROUND MOTOR AND COMES COMPLETE WITH A GROUNDING CABLE AS SHOWN)

(FOR A PERMANENT MAGNET MOTOR USE W4BC-1602)

(SHAFT LENGTH FROM THE DRIVE END FRAME IS 2"/ 50.8mm)

24V *(DBB) (PM) MOTOR*
5/8" DIA. SHAFT WITH A 3/16 BAR KEY SLOT

"WMS" PART NUMBER, C42D14NC1ARM

REPLACES NUMBERS,
C42D14NC1A, 96137.00, 22323700, 125493, 128133, 4640B, 128113

(APPLICATIONS) CROWN

(This motor has a core charge)

***12V* DBB / SLOT SHAFT MOTOR (.256"/6.50mm slot)**

"WMS" PART NUMBER, C561350X8081

REPLACES NUMBERS, M960018, C-561350X8081
M-960018, M-9600118, M9600118, C561350X8081RM

(THIS NEW OHIO MOTOR HAS A CORE CHARGE)

***12V* (CW) 9 SPLINE "OHIO" MOTOR**

WMS PART NUMBER, C481268X7642

REPLACES NUMBERS, W-2912RM, PNB-528-18, MP01-2, 1701CC
52818, 1334AC, 1334-AC, C4D34DK3A, S720971, C481268X7642-1

(HAS A (9) SPLINE ARMATURE SHAFT)

(APPLICATIONS) (FENNER & SPX PUMPS, ETC.)

***12V* (PM) HD (6" DIA.) MOTOR**

(SLOT SHAFT / DBB)

"WMS" PART NUMBER, W-8163RM

REPLACES, 08163, W8163, 326-0169, W8163RM, 8163, M326-0169

(APPLICATIONS) (MONARCH / BUCHER PUMPS)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

**** 12 VOLT ****

***12 / 24V* (CW) HD (5" DIA.) "OHIO" MOTOR**

WMS PART NUMBER, D468302XWF02A

REPLACES NUMBERS,
2308AC, 2489AC, BA3640-702048BP, D468218XWF02A

(HAS A (9) SPLINE ARMATURE SHAFT)

(APPLICATIONS) (FENNER & SPX PUMPS, ETC.)

CLOCKWISE ROTATION AT DE

***12V* (CW) HD (5" DIA.) "DBB / MFY" TYPE MOTOR**

"WMS" PART NUMBER, W-4032

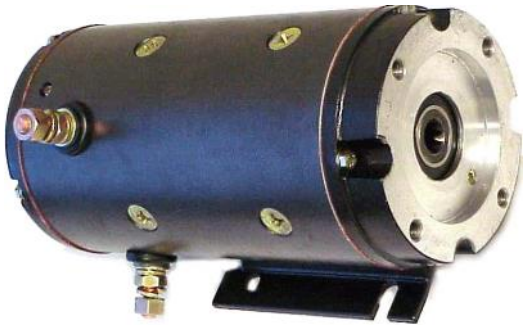
REPLACES NUMBERS,

THIS IS A "12V" VERSION OF THE W-4037

(APPLICATIONS) (CATERPILLAR, HALDEX, CONCENTRIC

(HAS THE "INTERNAL" (9) SPLINE)

(THIS IS A "SEALED" 12V MOTOR)



BOTH OF THESE MOTORS HAVE THE AMPLEX SHAFTS

*** 24V * DBB (PM MOTOR)**
AMPLEX SHAFT "OHIO" MOTOR

"WMS" PART NUMBER, D482273X7088

REPLACES, D-482273X7088RM, D482252X7707
D482252X7707A W-2252N, C0200954, 2200882, 2201054
4.2 HP <> 162 AMP <> 3600 RPM

(APPLICATIONS) (HALDEX BARNES)

(MOTOR HAS AMPLEX / CHRYSLER COUPLER SHAFT)

*** 24V * DBB (PM MOTOR)**
AMPLEX SHAFT "OHIO" MOTOR

"WMS" PART NUMBER, D482259X7707A

REPLACES NUMBERS, D-482259X7707ARM, 2200945
4.2 HP <> 162 AMP <> 3600 RPM

(APPLICATIONS) (HALDEX BARNES)

(THIS MOTOR HAS "OVERLOAD" PROTECTION)

OHIO VERSION

*** 24V * DBB (PM MOTOR)**
INTERNAL SPLINE SHAFT "OHIO" MOTOR

OHIO INTERNAL (9) SPLINE SHAFT AT DE

"WMS" PART NUMBER, D482266X7623

REPLACES, C4D36DB1A, C4D360B1ARM, C4D360B1A
D-482266X7623, 3080028, 108637.00, X7623, D482266X7623RM

4.2 HP <> 165 AMP <> 3600 RPM

*** 24V * DBB (PM MOTOR)**
SLOT SHAFT "OHIO" MOTOR

"WMS" PART NUMBER, D482238X7819

4.2 HP <> 162 AMP <> 3600 RPM

REPLACES NUMBERS,
4BD-00355, 39200429, C4D34DB8B, W-0355
W4BD-0355, 108486.00, 430-22050, 2201034, 39200321

(APPLICATIONS) (HALDEX BARNES)

(MOTOR HAS 0.256"/ 6.50mm SLOT SHAFT ARMATURE)

***24V* (PM / 9S) HD (6" DIA.) MOTOR**

"WMS" PART NUMBER, W-1372RM

4.2 HP <> 165 AMP <> 3600 RPM

REPLACES NUMBERS, MP-052,

W1372, MP-05-02, PVB55029, PVB-55029, 55029, 1372AC

(APPLICATIONS) (FENNER FLUID POWER PUMPS)

(THIS MOTOR HAS A DOUBLE COMMUTATOR ARMATURE)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

***24V* (PM MOTOR)**

(ARMATURE SHAFT HAS EXTENDED SLOT)

"WMS" PART NUMBER, D482263X7054

2 HP <> 82 AMP <> 3000 RPM

REPLACES NUMBERS, 8544, C4D34DB8B, D-482263X7054

(APPLICATIONS) (MAYVILLE ENGINEERING)

***24V* (PM MOTOR)**

(ARMATURE HAS INTERNAL 9 SPLINE SHAFT)

"WMS" PART NUMBER, D482271X7086RM

REPLACES, W-8166RM, 1617540003, 08166, K9900099, 8166

(Unit looks like a D482266X7623 but will not interchange)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

***24V (PM SHAFT MOTOR)**

(ARMATURE HAS A 3/16 BAR KEY SLOT)

"WMS" PART NUMBER, E561306X8823RM

REPLACES, E561306X8823

(For a motor with "OLP" use number E561312X8823RM)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

36V (PM / 9S) HD DBB (6" DIA.) MOTOR

"WMS" PART NUMBER, W-1289RM

REPLACES NUMBERS, W1289, 2337080, 1289-AC, 1289AC

(APPLICATIONS) (FENNER & SPX PUMPS)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

24V (PM / 9S) HD DBB (6" DIA.) MOTOR

"WMS" PART NUMBER, W-2924RM

REPLACES NUMBERS, W2924, 1492-AC-24V, 1494AC-24V

THIS IS A *24V* VERSION OF THE MOTORS SHOWN

(APPLICATIONS) (FENNER FLUID POWER PUMPS)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

OHIO MOTOR

24V (PM) HD (6" DIA.) MOTOR

(DBBW/AMPLEX SHAFT)

"WMS" PART NUMBER, E561277X8739

REPLACES, X8739, E-561277X8739, 9632102290, 2200917

(APPLICATIONS) (GROVE EQUIP., HALDEX BARNES)
(5.4 HP <> 4000 RPM <> 225 AMP.)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

OHIO MOTOR

24V (PM) HD (6" DIA.) MOTOR

(DBB W/AMPLEX SHAFT)

"WMS" PART NUMBER, D562270X8782

REPLACES NUMBERS, D481559X7853A
CL2788926, MT-1011, 2788926, D562270X8782A

(APPLICATIONS) (CLARK MATERIAL HANDLING)

(THIS IS A NEW MOTOR WITH A CORE CHARGE)

24V (PM MOTOR) DBB
(ARMATURE HAS SLOT SHAFT)

"WMS" PART NUMBER, B481225X7615A

5/8 HP <> 26 AMP <> 2000 RPM

REPLACES,
X7615A, B-481225X7615A, W-3325, MT-1003
(APPLICATIONS) (CROWN)

OHIO MOTOR

24V / 36V (PM MOTOR) DBB
(ARMATURE HAS (AMPLEX) SHAFT)

"WMS" PART NUMBER, B481228X7626A

5/8 HP <> 26 AMP <> 1900 RPM

REPLACES, B481228X7626, B-481228X7626A, C4D17DB1D
(APPLICATIONS)
(J.S. BARNES, HALDEX)

OHIO MOTOR

24V / 36V (PM MOTOR) DBB
(ARMATURE HAS (AMPLEX) SHAFT)

"WMS" PART NUMBER, C4D17DB1DRM

5/8 HP <> 26 AMP <> 1900 RPM

REPLACES,
B481228X7626, C-4D17DB1D, C4D17DB1D

(THIS IS A REMAN VERSION OF THE B481228X7626A AND HAS A CORE CHARGE)

LEESON MOTOR

36V (PM MOTOR) DBB
(ARMATURE HAS (AMPLEX) SHAFT)

"WMS" PART NUMBER, D481581X7147A

3/4 HP <> 20 AMP <> 1400 RPM

REPLACES NUMBERS,
481581X7147, D-481581X7147A, W-3337, D481581X7147

(THIS IS A NEW MOTOR WITH A CORE CHARGE)

OHIO MOTOR

OHIO VERSION

* 36V * *(DBB "INS" GROUND)*

EXTENDED SLOT SHAFT AT DE

"WMS" PART NUMBER, D482256X7864

2 HP <> 52 AMP <> 3000 RPM

REPLACES, C4D34DB5ARM, C4D34DB4C

D-482256X7864, 108115.00, 108131.00, 2200476

(APPLICATION) (MAYVILLE ENGINEERING)

* 36V * *(DBB "INS" GROUND)*

EXTENDED SLOT SHAFT AT DE

"WMS" PART NUMBER, C4D34DB5ARM

REPLACES NUMBERS, D482256X7864

108131.00, 46-9228, C4D34DB5B, C4D34DB5A, 2200476

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

36V (MOTOR WITH AMPLEX SHAFT)

"WMS" PART NUMBER, D562226X8995RM

5 HP <> 127 AMP <> 3000 RPM

REPLACES NUMBERS, D562226X8995, D-562226X8995

(APPLICATIONS) (MONARCH & BUCHER)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

36V (PM) HD (Double shaft) MOTOR

(DBB WITH 3/16 KEY SLOTS)

"WMS" PART NUMBER, D563207X8124RM

REPLACES NUMBERS, X8124, D563207X8124

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

36V MOTOR WITH INTERNAL SPLINE SHAFT

"WMS" PART NUMBER, E561294X8752

6.9 HP <> 171 AMP <> 4000 RPM

REPLACES NUMBERS,

E-561294X8752, 9675

(APPLICATIONS) (MAYVILLE ENGINEERING)

36V / 48V *(DBB "INS" GROUND)*

NEW MOTOR WITH AMPLEX SHAFT

"WMS" PART NUMBER, W-2388112

REPLACES, P56SD702, C561320X8931A, C561330X8887
2388112, MT-1019, EE2388112, EE2388131, 2771952, 2781993

(APPLICATION) (CLARK EQUIPMENT)

36V / 48V *(DBB "INS" GROUND)*

AMPLEX SHAFT "OHIO" MOTOR

"WMS" PART NUMBER, C481276X7737RM

REPLACES NUMBERS, C481276X7737, 2200935, C481276X7737A

(APPLICATION) (VENTILATED MOTOR)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

36V / 48V *(DBB "INS" GROUND)*

AMPLEX SHAFT "OHIO" MOTOR

"WMS" PART NUMBER, C481279X7739ARM

REPLACES NUMBERS, C481279X7738A, C481279X7739A, M9400052

(APPLICATION) (NON-VENTILATED MOTOR)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

36V / 48V *(DBB "INS" GROUND)*

AMPLEX SHAFT "OHIO" MOTOR

"WMS" PART NUMBER, C481340X7739ARM

REPLACES NUMBERS, 2200947, B9600043, C481340X7739A

(APPLICATION) (VENTILATED MOTOR)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

36V / 48V AMPLEX SHAFT "OHIO" MOTOR

"WMS" PART NUMBER, D483206X7127

REPLACES, 107434, 46-2646, 46-3351, D482274X7746, 07128
D482271X7878A, MPP-4001, 87128, 89330, D482211X7878A
200179, D481530X7458, 104922, 115105WB

(APPLICATION) (CROWN MOTORS)

.256”/ 6.50mm Shaft slot

48V (PM) HD (6” DIA.) DBB “OHIO” MOTOR

“WMS” PART NUMBER, D562297X8214

4HP <> 77 AMP <> 3000 RPM

REPLACES NUMBERS,
1E-6028, D-562297X8214

(APPLICATIONS)

(MAYVILLE ENGINEERING)

48V (PM) HD (6” DIA.) DBB “OHIO” MOTOR

“WMS” PART NUMBER, D562298X8108A

4.25HP <> 82 AMP <> 2650 RPM <> INTERNAL 9/SPLINE SHAFT

REPLACES NUMBERS,
82-56229, D-562298X8108A, D562298X8108

(APPLICATIONS)

(PARKER HANNIFIN)

.256”/ 6.50mm Shaft slot

48V (PM) HD (6” DIA.) DBB “OHIO” MOTOR

“WMS” PART NUMBER, W-8040RM

3.45HP <> 70 AMP <> 3290 RPM

REPLACES, W8040, M-326-0171, 81568, D482268X7079, 08040

(APPLICATIONS)
(MONARCH / BUCHER PUMPS)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

.256”/ 6.50mm Shaft slot

72V (PM) HD (6” DIA. DBB OHIO MOTOR)

“WMS” PART NUMBER, W-8174RM

REPLACES NUMBERS, D482286X7095, C650010-300, 08174

(APPLICATIONS)
(MONARCH / BUCHER PUMPS)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

48V (PM / 9S) HD (5" DIA.) MOTOR

"WMS" PART NUMBER, D481390X7029

2.14 HP <> 43 AMP <> 2700 RPM

REPLACES NUMBERS, 108640.00, 75968, C4D28NK8A C4D28NK8B, C4D28NK8DRM, C4D28NK8E, C650010247, 109640.00, D481390X7029, 1492FC, 1492BC, 1492AC

(APPLICATIONS)

(FENNER FLUID POWER PUMPS)

OHIO MOTOR

48V (PM / 9S) HD (5" DIA.) MOTOR

"WMS" PART NUMBER, D482247X7788

3 HP <> 65 AMP <> 3300 RPM

REPLACES NUMBERS, W-1909RM

C4D34DK4A, 1909CC, 1909AC, 1909BC, D-482247X7788

(APPLICATIONS)

(FENNER FLUID POWER PUMPS)

(THIS IS A VENTILATED VERSION OF THE 1492AC)

OHIO VERSION

48V (PM / 9S) HD (5" DIA.) MOTOR

"WMS" PART NUMBER, C4D34DK4ARM

3.18 HP <> 63 AMP <> 3340 RPM

REPLACES NUMBERS,
108647.00, C4D34DK4A, D482247X7788, 1909AC, 1909CC

(APPLICATIONS) (FENNER FLUID POWER PUMPS)

(THIS IS A REMAN MOTOR WITH A CORE CHARGE)

LEESON VERSION

48V (PM) DBB (6" DIA.) "OHIO" MOTOR

"WMS" PART NUMBER, E561281X8087

3.5HP <> 66.8 AMP <> 3800 RPM

REPLACES NUMBERS, 39200450, E-561281X8087

(APPLICATIONS) (MTE HYDRAULICS)

(THIS IS A NEW MOTOR WITH A CORE CHARGE)

"NLA" USE NUMBER W-7905

COM END VIEW

SHAFT END VIEW

12V "CCW" *(DBB SIREN MOTOR)*
9/16" DIA. SHAFT WITH THREADS

"WMS" PART NUMBER, W-7902" "NLA"

REPLACES, 8154-D2, MCW-4002

(APPLICATIONS) FIRE TRUCKS & EMERGENCY VEHICLES

***** THIS STYLE IS "NO LONGER AVAILABLE" *****

(USE THE NEW IMPROVED STYLE NUMBER W-7905 SHOWN BELOW THAT COMES COMPLETE WITH A DRIVE END FRAME ASSEMBLY THAT THE CHROME SHROUD CAN BE SCREW ATTACHED TO)

12V "CCW" *(DBB SIREN MOTOR)*

"WMS" PART NUMBER, W-7905

REPLACES NUMBERS,

MCW-4002, MCW-2050, 46-385, 92238, 92238C9, 99010 9223809, 92238G189, 8280080, 8280080A, 8280080B, W-7902 W7905, 00.36000, 8154D2, Z8280080B, 22-65025, MDS-4004, MDS-4005

(APPLICATIONS)

Q SIREN MODELS, Q2B-012, SERIES B & C

MODELS, Q2B-012PNSD, Q2B-012NNSD, Q2B-012PSD, SERIES D

FEDERAL SIGNAL CORP. AND WARFIELD MFG. MOTOR

FIRE TRUCKS AND EMERGENCY VEHICLES

(FACE OF DE FRAME HAS FOUR 10/24 THREADED HOLES FOR MOUNTING THE CHROME SIREN MOTOR HOUSING)

Shaft is 5.5"/ 139.7mm from DE

SPECIAL *12V* "CW" MOTOR

(PRESTOLITE STYLE WITH SPOT WELDED BRUSHES)

.625"/ 15.87mm" DIAMETER SHAFT

"WMS" PART NUMBER, W-8836-P

(APPLICATIONS)

(THIS MOTOR IS USED AT DOG RACE TRACKS)

(IT IS THE MOTOR THAT RUNS THE) (RABBIT AROUND THE TRACK)

(SPECIAL "HIGH" RPM MOTOR)

12V (CW) MOTOR

WITH A 1.5"/ 38.1mm LONG .625"/ 15.87mm DIA. SHAFT.

(*HD* // DOUBLE BALL BEARING)

"WMS" PART NUMBER, W-6536

(APPLICATIONS)

(THIS MOTOR IS USED AT DOG RACE TRACKS)

(TO RUN THE RABBIT AROUND THE TRACK)

(SPECIAL "HIGH" RPM MOTOR)

(SHAFT HAS PIN HOLE & WOODRUFF KEY SLOT)

EASY CHANGE BRUSHES

SPECIAL *12V* CW * MOTOR

(HAS BALL BEARING AT COM END)

.625"/ 15.87mm DIAMETER SHAFT

"WMS" PART NUMBER, W-8836

(APPLICATIONS)

(THIS MOTOR IS USED AT DOG RACE TRACKS)

(IT IS THE MOTOR THAT RUNS THE RABBIT AROUND THE TRACK)

(SPECIAL "HIGH" RPM MOTOR)

5.5"/ 139.7mm LONG SHAFT

EASY CHANGE BRUSHES

12V " *DBB* " WITH .625"/ 15.87mm SHAFT

(FOUR FIELD COILS) (CW) ROTATION

"WMS" PART NUMBER, W-6516

(APPLICATIONS)

(USED ON SAND & CEMENT TRUCKS TO RUN VIBRATORS / SHAKERS AND MANY OTHER MISCELLANEOUS APPLICATIONS)

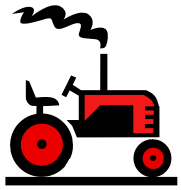
(.625" SHAFT LENGTH IS 2.80"/ 71.12mm FROM DRIVE END)

(THE RAISED RING DIAMETER ON DRIVE END IS 3.25"/ 82.55mm)

(SHAFT HAS A BAR KEY SLOT)

(FOR A "CCW" MOTOR USE NUMBER W-6593)

5.5”/ 139.7mm LONG SHAFT



6V FORD STARTER (CW) (FORD STYLE)

“WMS” PART NUMBER, W-3109N

REPLACES, W3109, 8N-11002, 9N-11002, 52-11002

(APPLICATIONS)

(1940 THRU 1952 FORD 8N AND 9N *6V* TYPE TRACTORS)

THIS STARTER USE’S STARTER DRIVE NUMBERS,

230, 3-502, 4-502

5.5”/ 139.7mm LONG SHAFT

6V FORD STARTER (CW) (FORD STYLE)

“WMS” PART NUMBER, W-3110N

REPLACES, W3110, FAC-11001, W3110N, C3NF-11002

(APPLICATIONS) (FORD, LINCOLN, MERCURY ETC.)

(*6V* FROM 1953 THRU 1955 CARS & TRUCKS)

(FARM & INDUSTRIAL THRU 1962)

THIS STARTER USE’S STARTER DRIVE NUMBER

260R, 260RHD, 3-553,

(FOR A CCW VERSION USE A W-3146)

5.5”/ 139.7mm LONG SHAFT

12V FORD STARTER (CW) (FORD STYLE)

“WMS” PART NUMBER, W-3115N

REPLACES, W3115, FAR-11001, C3NF-11001

(APPLICATIONS) (FORD, LINCOLN, MERCURY ETC.)

(1956 THRU 1962 CARS & TRACTORS THRU 1966)

THIS STARTER USE’S STARTER DRIVE NUMBER

260R, 260RHD, 3-553,

5.5”/ 139.7mm LONG SHAFT

12V FORD STARTER (CW) (PRESTOLITE STYLE)

“WMS” PART NUMBER, W-3136P

REPLACES, W3136, 2900803, 2900804

(APPLICATIONS) (FORD DIESEL INDUSTRIAL)

(TRACTORS AND INDUSTRIAL EQUIPMENT)

(THIS IS A *HD* VERSION OF THE ABOVE NUMBER, 3115-N)

THIS STARTER USE’S STARTER DRIVE NUMBER

260R, 260RHD, 3-553,

***24V* (CW) HD DBB (4.5" DIA.) "PM" MOTOR SLOT SHAFT MOTOR (1HP) (3000 RPM)**

"WMS" PART NUMBER, W4BB-0440

REPLACES, W4BB0440, 4BB-00440, 91534, 4800440, M4-4111-04, 516-442-600, DW-00020, B481266X7904

(APPLICATIONS) FENNER FLUID POWER
(1HP) (3000 RPM) (FULL LOAD AMPS = 41)

(OVERALL LENGTH OF MOTOR IS 7.6"/ 193.04mm)

.256"/ 6.50mm Shaft slot

***12V* (CW) (4.5" DIA.) "PM" 5/8" SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W4BB-3922

REPLACES NUMBERS, W4BB-2278, 4BB-02278 W4BB3922, 4BB-00244, 4BB-01350, 4BB-3922, W4BB-1350

(APPLICATIONS) MAYVILLE ENGINEERING, AND MISC. APP'S

(1HP) (2800 RPM) (FULL LOAD AMPS = 80)

(OVERALL LENGTH OF MOTOR IS 7.6"/ 193.04mm)

***12V* (CW) HD DBB (4.5" DIA.) "PM" MOTOR 2"/ 50.8mm LONG, .625" DIA. SHAFT W/A 3/16 SLOT**

"WMS" PART NUMBER, W4BB-1367

REPLACES, 4BB-01367, W4BB1367, 4648-9-48B, BA-3614, BA-36167065

(APPLICATIONS) MOBIL EQUIPMENT, AUGERS AND SPREADERS

(1/2HP) (1800 RPM) (FULL LOAD AMPS = 40)

(LENGTH OF MOTOR W/O SHAFT IS 9.95"/ 252.73mm)

***24V* (CW) HD DBB (4.5" DIA.) "PM" MOTOR SLOT SHAFT MOTOR (1HP) (3000 RPM)**

"WMS" PART NUMBER, W4BB-1415

REPLACES, 4BB-01415, 6194, W4BB1415 C4D34DB1C, 4BB-00455, 155614, M4-4111-63

(APPLICATIONS) FENNER FLUID POWER, SPX

(1HP) (3000 RPM) (FULL LOAD AMPS = 40)

(OVERALL LENGTH OF MOTOR IS 9.3"/ 236.22mm)

.256"/ 6.50mm Shaft slot

***24V* (CW / 4.5" DIA.) "PM" SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W4BB-2080

REPLACES NUMBER, W4BB2080, 4BB-02080

(APPLICATIONS) FENNER FLUID POWER, SPX

(1HP) (3250 RPM) (FULL LOAD AMPS = 40)

(OVERALL LENGTH OF MOTOR IS 9.3"/ 236.22mm)

56C FRAME

24V (4.5" DIA.) "PM" MOTOR WITH .625" SHAFT

"WMS" PART NUMBER, W4BA-1426

REPLACES NUMBER, W4BA1426, 4BA-01426

(APPLICATIONS) MOBIL EQUIPMENT

(1/4HP) (1800 RPM) (2"/ 50.8mm LONG SHAFT <> 3/16 BAR KEY)

(LENGTH OF MOTOR W/O SHAFT IS 9"/ 228.6mm)

24V (CW) HD DBB (4.5" DIA.) "PM" MOTOR

.625" SHAFT TYPE MOTOR (1/2HP) (1800 RPM)

"WMS" PART NUMBER, W4BB-1427

REPLACES, W4BB1427, 4BB-01427

(APPLICATIONS) MOBIL EQUIPMENT

(1/2HP) (1800 RPM) (2"/ 50.8mm LONG SHAFT <> 3/16 BAR KEY)

(LENGTH OF MOTOR W/O SHAFT IS 9.95"/ 252.73mm)

56C FRAME

12V (CW) HD DBB (4.5" DIA.) "PM" MOTOR

.625" SHAFT TYPE MOTOR (1/2HP) (1800 RPM)

"WMS" PART NUMBER, W4BB-1601

REPLACES, W4BB1601, 4BB-01601, 120Z402H/H2

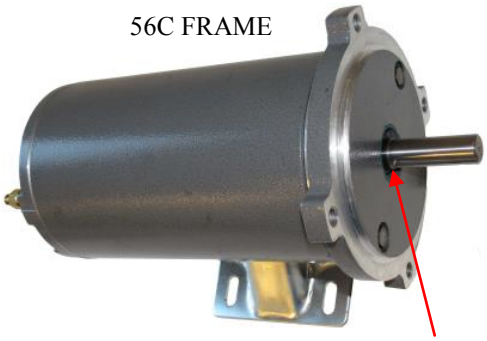
(APPLICATIONS) CANIMEX SPREADERS

(1/2HP) (1800 RPM) (2"/ 50.8mm LONG SHAFT <> 3/16 BAR KEY)

(LENGTH OF MOTOR W/O SHAFT IS 10.1"/ 256.54mm)

(For a Lesson style of this motor use W-98985)

56C FRAME



HAS A SHAFT SEAL

12V (4.5" DIA.) "PM" LEESON STYLE 1/2HP MOTOR,

2"/ 50.8mm LONG .625" DIAMETER SHAFT W/A 3/16 BAR KEY SLOT

"WMS" PART NUMBER, W-98985

REPLACES NUMBERS, C4D17NK73, A900906, 108046.00

108047.00, 108046, 108047, 17737, 50090, 108051, 120Z402H/H2

(APPLICATIONS)

(CANIMEX & AIR FLOW SPREADERS, FLO-TEC / SAND AND SALT SPREAD/MOTOR

(1800 RPM) (AMPS 40) (LENGTH OF MOTOR W/O SHAFT IS 8.5"/ 215.9mm)

This is a Lesson style of Scott motor number W4BB-1601

56C FRAME

24V (CW) HD DBB (4.5" DIA.) "PM" MOTOR

.625" SHAFT TYPE MOTOR (1/2HP) (1800 RPM)

"WMS" PART NUMBER, W4BB-1604

REPLACES, W4BB1604, 4BB-01604

(APPLICATIONS) MOBIL EQUIPMENT

(1/2HP) (1800 RPM) (2"/ 50.8mm LONG SHAFT <> 3/16 BAR KEY)

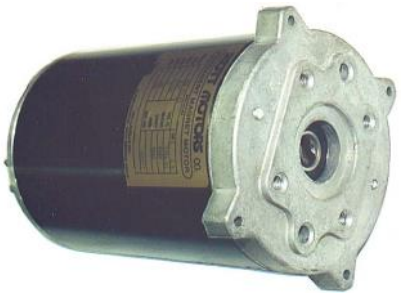
(LENGTH OF MOTOR W/O SHAFT IS 10.1"/ 256.54mm)

24V (CW) HD DBB (4.5" DIA.) "PM" MOTOR
SLOT SHAFT MOTOR (1HP) (3000 RPM)

"WMS" PART NUMBER, W4BB-2152

REPLACES, W4BB2152, 4BB-02152, 419909, M4-419909

(APPLICATIONS) FENNER FLUID POWER
(1HP) (3000 RPM) (FULL LOAD AMPS = 41)
(OVERALL LENGTH OF MOTOR IS 7.6"/ 193.04mm)



.256"/ 6.50mm Shaft slot

12V (CW) HD DBB (4.5" DIA.) "PM" MOTOR
SLOT SHAFT MOTOR (2HP) (3250 RPM)

"WMS" PART NUMBER, W4BC-0781

REPLACES, W4BC0781, 4BC-00781

(APPLICATIONS) FENNER FLUID POWER, MTE PUMPS
(2HP) (3250 RPM) (FULL LOAD AMPS = 160)
(OVERALL LENGTH OF MOTOR IS 9.3"/ 236.22mm)

.256"/ 6.50mm Shaft slot

12V (CW) HD DBB (4.5" DIA.) "PM" MOTOR
SLOT SHAFT MOTOR (2HP) (3250 RPM)

"WMS" PART NUMBER, W4BC-0782

REPLACES, W4BC0782, 4BC-00782

(APPLICATIONS) FENNER FLUID POWER
(2HP) (3250 RPM) (FULL LOAD AMPS = 160)
(OVERALL LENGTH OF MOTOR IS 11"/ 279.4mm)

12V (CW) HD DBB (4.5" DIA.) "PM" MOTOR
.625" SHAFT TYPE MOTOR (1HP) (1800 RPM)
"WMS" PART NUMBER, W4BC-1368

REPLACES, W4BC1368, 4BC-01368

(APPLICATIONS) MOBIL EQUIPMENT
(1HP) (1800 RPM) (2"/ 50.8mm LONG SHAFT <> 3/16 BAR KEY)
(LENGTH OF MOTOR W/O SHAFT IS 11.68"/ 296.67mm)

24V (CW) HD DBB (4.5" DIA.) "PM" MOTOR
.625" SHAFT TYPE MOTOR (1HP) (1800 RPM)
"WMS" PART NUMBER, W4BC-1428

REPLACES, W4BC1428, 4BC-01428

(APPLICATIONS) MOBIL EQUIPMENT
(1HP) (1800 RPM) (2"/ 50.8mm LONG SHAFT <> 3/16 BAR KEY)
(LENGTH OF MOTOR W/O IS 11.68"/ 296.67mm)

56C FRAME

12V (CW) HD DBB (4.5" DIA.) "PM" MOTOR

.625" SHAFT TYPE MOTOR (1HP) (3300 RPM)

"WMS" PART NUMBER, W4BC-1571

REPLACES, W4BC1571, 4BC-01571

(APPLICATIONS) MONARCH EQUIPMENT
(1HP) (3300 RPM) (2"/ 50.8mm LONG SHAFT <> 3/16 BAR KEY)
(LENGTH OF MOTOR W/O SHAFT IS 9.3"/ 236.22mm)

56C FRAME

12V (CW) HD DBB (4.5" DIA.) "PM" MOTOR

.625" SHAFT TYPE MOTOR (1HP) (1800 RPM)

"WMS" PART NUMBER, W4BC-1602

REPLACES, W4BC1602, 4BC-01602

(APPLICATIONS) MOBIL EQUIPMENT
(1HP) (1800 RPM) (2"/ 50.8mm LONG SHAFT <> 3/16 BAR KEY)
(LENGTH OF MOTOR W/O SHAFT IS 11.75"/ 298.45mm)

56C FRAME

24V (CW) HD DBB (4.5" DIA.) "PM" MOTOR

.625" SHAFT TYPE MOTOR (1HP) (1800 RPM)

"WMS" PART NUMBER, W4BC-1605

REPLACES, W4BC1605, 4BC-01605

(APPLICATIONS) MOBIL EQUIPMENT
(1HP) (1800 RPM) (2"/ 50.8mm LONG SHAFT <> 3/16 BAR KEY)
(LENGTH OF MOTOR W/O SHAFT IS 11.75"/ 298.45mm)

12V *(F & R) HD (4.5" DIAMETER) BI-DIRECTIONAL*

"WMS" PART NUMBER, W-17531

REPLACES NUMBER, W17531, 17531

(APPLICATIONS) (CRANES) (SANTA ANITA)

(2HP) (3250 RPM) (LENGTH OF MOTOR IS 11"/ 279.4mm)

(NOTE) THE DRIVE END FRAME IS FOR SHIPPING ONLY.

YOU MUST INSTALL THE DRIVE END FRAME ASSEMBLY
FROM THE ORIGINAL MOTOR BEING REPLACED.

This motor is manufactured in the permanent magnet "Scott" motor style

***12V* (CW) DBB (4.5" DIA.) SLOT SHAFT MOTOR**

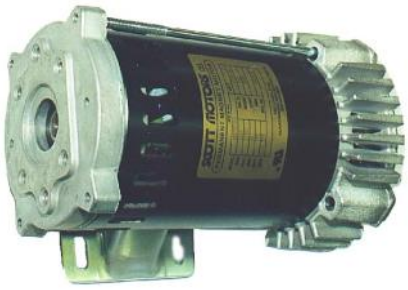
"WMS" PART NUMBER, W4BC-1765

REPLACES, W4BC1765, 4BC-01765, 2200464

(APPLICATIONS) HALDEX, BARNES,

(2HP) (3250 RPM) (FULL LOAD AMPS = 160)

(OVERALL LENGTH OF MOTOR IS 9.3"/ 236.22mm)



***12V* (CW) DBB (4.5" DIA.) SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W4BC-1988

REPLACES, W4BC1988, 4BC-01988, 8072,

(APPLICATIONS) MONARCH EQUIPMENT

(1HP) (3300 RPM) (FULL LOAD AMPS = 80)

(OVERALL LENGTH OF MOTOR IS 9.3"/ 236.22mm)

***12V* (CW) DBB (4.5" DIA.) SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W4BC-2239

REPLACES, W4BC2239, 4BC-02239

(APPLICATIONS) SANTA ANITA

(2HP) (3250 RPM) (FULL LOAD AMPS = 160)

(OVERALL LENGTH OF MOTOR IS 11"/ 279.4mm)

***24V* (CW) HD DBB (4.5" DIA.) "PM" MOTOR**

9 SPLINE SHAFT TYPE MOTOR (1HP) (3300 RPM)

"WMS" PART NUMBER, W4BC-2352RM

REPLACES, 4BC-02352, 4BC-2352

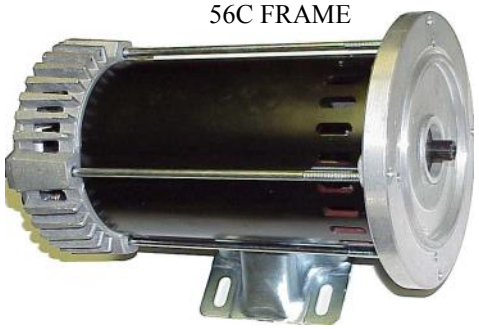
(APPLICATIONS) MONARCH EQUIPMENT

(1HP) (3300 RPM) (FULL LOAD AMPS = 80)

(OVERALL LENGTH OF MOTOR IS 9.3"/ 236.22mm)

(THIS IS A REMANUFACTURED MOTOR W/A CORE CHARGE)

56C FRAME



***24V* (CW) DBB (4.5" DIA.) SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W4BC-2463

REPLACES, W4BC2463, 4BC-02463, 8073,

(APPLICATIONS) MONARCH EQUIPMENT

(2HP) (3400 RPM) (FULL LOAD AMPS = 75)

(OVERALL LENGTH OF MOTOR IS 9.3"/ 236.22mm)

56C FRAME

***24V* (CW) DBB (4.5" DIA.) "PM" MOTOR**
SLOT SHAFT MOTOR

"WMS" PART NUMBER, W4BC-2689

REPLACES, W4BC2689, 4BC-02689

(APPLICATIONS) STRATO LIFT EQUIPMENT
(2HP) (3400 RPM) (FULL LOAD AMPS = 80)
(OVERALL LENGTH OF MOTOR IS 11"/ 279.4mm)

***24V* (CW/DBB) (4.5" DIA.) .625" SHAFT MOTOR**

"WMS" PART NUMBER, W4BC-2850

REPLACES, W4BC2850, 4BC-2850

(APPLICATIONS) MANY MISC. APPLICATIONS

(2HP) (3600 RPM) (2"/ 50.8mm LONG SHAFT W/A 3/16 KEY SLOT)

(LENGTH OF MOTOR W/O SHAFT IS 11"/ 279.4mm)

***12V* (CW) DBB (4.5" DIA.) INT/SPL. SHAFT MOTOR**

"WMS" PART NUMBER, W4BC-3064

REPLACES, 4BC-03064, 4BC-3064

(APPLICATIONS) MONARCH EQUIPMENT

(1.75HP) (2800 RPM) (FULL LOAD AMPS = 160)

(MOTOR HAS "INTERNAL" 9 SPLINE SHAFT)

.256"/ 6.50mm Shaft slot

"OEM" SCOTT MANUFACTURED PM MOTOR
***24V* (4.5" DIA.) "PM" SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W4BD-0355

REPLACES, W0355, W4BD0355, 4BD-0355
C4D34D89A, 0920-0321, 39200321, 39200421, D562275X8375
9120321, 2994BD00355, 4BD-00355, 2201034, W-0355

(APPLICATIONS)
MTE PUMPS AND HALDEX BARNES PUMPS

(4HP) (3600 RPM) (FULL LOAD AMPS = 150)

(OVERALL LENGTH OF MOTOR IS 13.5"/ 342.9mm)

(For a Ohio version of this motor use D482238X7819)

(LENGTH OF MOTOR
W/O SHAFT IS 9.95"/ 252.73mm)

***24V* (4.5" DIA.) "PM" .625" DIA. SHAFT MOTOR**

"WMS" PART NUMBER, W-1427

REPLACES NUMBER, 0803023MO48HM,
W1427, FGB-2190, 08030-23-MO48HM

(APPLICATIONS) HALDEX / BARNES PUMPS

(Has (4) 5/16 X 18 threaded holes in face of DE)

(Customer must use the four studs from the old motor in DE)

(1/2 HP) (1800 RPM) **(2"/ 50.8mm SHAFT HAS A 3/16 KEY SLOT)**

***24V* (4.5" DIA.) "PM" SLOT SHAFT MOTOR**

"WMS" PART NUMBER, W4BD-2079

REPLACES NUMBER, 4BD-02079, W4BD2079

(APPLICATIONS) HALDEX / BARNES PUMPS

(4HP) (3600 RPM) (FULL LOAD AMPS = 150)

(OVERALL LENGTH OF MOTOR IS 13.5"/ 342.9mm)

56C FRAME

***24V* (4.5" DIA.) "PM" MOTOR WITH .625" SHAFT**

"WMS" PART NUMBER, W4BD-2267

REPLACES NUMBER, W4BD2267, 4BD-02267

(APPLICATIONS) MOBIL EQUIPMENT

***(4HP) (3600 RPM)* (2"/ 50.8mm SHAFT HAS A 3/16 KEY SLOT)**

(LENGTH OF MOTOR W/O SHAFT IS 13.5"/ 342.9mm)

56C FRAME

***24V* (4.5" DIA.) "PM" MOTOR WITH 5/8" SHAFT**

"WMS" PART NUMBER, W4BD-2267A

REPLACES NUMBER, W4BD2267, 4BD-02267

(APPLICATIONS) MOBIL EQUIPMENT

(4HP) (3600 RPM) (FULL LOAD AMPS = 150)

(SAME AS THE W4BD-2267 ONLY WITH "OVERLOAD PROTECTION)

56C FRAME

WITH OVERLOAD PROTECTION

"OEM" SCOTT MANUFACTURED PM MOTOR

***24V* (4.5" DIA.) "PM" AMPLEX SHAFT MOTOR**

"WMS" PART NUMBER, W4BD-02273

REPLACES, W-2273, 2200856, W2273, 4BD-02273

(APPLICATIONS) HALDEX BARNES, J.S. BARNES PUMPS

(4HP) (3600 RPM) (FULL LOAD AMPS = 150)

(OVERALL LENGTH OF MOTOR IS 14.2"/ 360.68mm)

(ARMATURE SHAFT IS THE AMPLEX OR CHRYSLER TYPE COUPLER WITH THE 1/4 X 20 THREADED HOLE IN THE END OF THE SHAFT AND WITH FLATS ON EACH SIDE OF THE SHAFT)

(For a Ohio version of this motor use D482273X7088)

***48V* (CW) HD (4.5" DIA.) "PM" MOTOR AMPLEX SHAFT TYPE MOTOR**

"WMS" PART NUMBER, W4BD-2744

REPLACES, 378274, W4BD2744, 2200952, 4BD-02744, 220-0952

(APPLICATIONS) HALDEX BARNES PUMPS

(3.7HP) (OVERALL LENGTH OF MOTOR IS 14.2"/ 360.68mm)

***24V* (1) POST (CCW) SHAFT MOTOR WITH PULLEY**

"WMS" PART NUMBER, MHM4001

REPLACES NUMBERS,
MHM-4001, 46-920

(APPLICATIONS) (FORE MOTOR CART)

(THIS UNIT LOOKS LIKE A GENERATOR "BUT" IS A "CCW MOTOR" WITH ONE TERMINAL POST)

****12V / 24V * PM DBB 4.5" Dia. Shaft Motor (Bi-directional)***

"ISKRA" PART NUMBER, AMG1626

REPLACES NUMBER, AMG-1626

(VERY GOOD 1 HP UNIVERSAL MOTOR @ 12 VOLTS)
(VERY GOOD 1.5 HP UNIVERSAL MOTOR @ 24 VOLTS)
(HAS A CE O-RING TO HELP KEEP WATER OUT)

NO-LOAD RPM'S (12V RPM APPROX. 2450) <> (24V RPM APPROX. 4750)

(SHAFT IS .625 DIAMETER AND 1.5"/ 38.1mm LONG W/A 3/16 BAR KEY SLOT)

1.5"/ 38.1mm long shaft

**** 12V * PM "INSULATED GROUND" F & R MOTOR***

MOTOR HAS .625" DIAMETER 1.5" LONG SHAFT W/KEY SLOT

REPLACES, MANY MISC. APPLICATIONS

"WMS" PART NUMBER, W-8858

(1/2 HP <> 1000 RPM <> .625"/ 15.87mm Diameter Shaft w/a 3/16 key slot)

(VERY GOOD 1/2 HP UNIVERSAL MOTOR WITH SEALS AND O-RINGS TO HELP KEEP WATER OUT)
(The four holes in the DE frame are 4.172"/ 105.97mm spread across) (56C)

(*12V* MOTOR WITH EASY CHANGE BRUSHES)

STANDARD DUTY MOTOR (DOUBLE BALL BEARING)

"WMS" PART NUMBER, W-9787

REPLACES, D-6000, DCM-0013, 1185AC, 1787AC
520-001, 1931AC, 13850, 25169, M-3400, FN2-0001N
W9787, 222423, AMT0097, 02-1020,
(APPLICATIONS)
(FENNER FLUID POWER, MAXON, SPX, WALTCO, PRESTOLITE)

POPULAR STD. 9 SPL.

EASY CHANGE BRUSHES
Overall length 6.9"

(OEM SACO MOTOR WITH EASY CHANGE BRUSHES)

12V "GOLD" STYLE (9) SPLINE (HD / CW)

LONGER "HD" MOTOR (DOUBLE BALL BEARING)

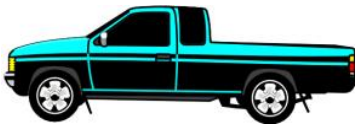
"WMS" PART NUMBER, W-9789

REPLACES, 1997AC, 1789AC, 02-1021, 46-4072, 25163, DCM-0014,
70392800, 70391100, FN2-0002N, W9789, 11212386, D-6000HD, AMT0105,
W-8987, T-8789, T8789, P46340
(APPLICATIONS)
(FENNER FLUID POWER, MAXON, SPX, WALTCO, PRESTOLITE)

(THIS "HD" MOTOR IS .750" LONGER THAN NUMBER W-9787 AND INTERCHANGES WITH "ALL" (CW) ONE POST (9) SPLINE MOTORS)

POPULAR "HD" 9 SPL.

EASY CHANGE BRUSHES
Overall length 7.5"



12V *(STANDARD DUTY PRESTOLITE STYLE)*
(CW) (9) SPLINE MOTOR

"WMS" PART NUMBER, W-9787-LB

REPLACES, FN2-0001N, W9787LB, MUE-6114S, 46-4048
(APPLICATIONS)
(FENNER FLUID POWER, SPX, WALTCO, MAXON)

(FOR A "DBB" MOTOR USE "WMS" GOLD FENNER STYLE MOTOR NUMBER, W-9787)

(THE W-9787-LB MOTOR HAS A BUSHING COM END FRAME)

EASY CHANGE BRUSHES

12V HD*(*DBB*) 9 SPLINE MOTOR
"WMS" PART NUMBER W-8787

(GOLD (2) FIELD COIL "HIGH RPM" MOTOR)

(SPECIAL FIELD COILS FOR QUICKER RESPONSE)

(HEAVY DOUBLE LEAD WIRES TO BRUSHES)

(CW) REPLACES NUMBERS, 1185AC, 1787AC, 1931, W8787, M-3400, FN2-0001N,

(FENNER FLUID POWER, SPX, WALTCO, MAXON, RED'S HYD.)

(THIS IS FOR "LOW RIDER" APPLICATIONS)

12V HD*(*DBB*) 9 SPLINE MOTOR
"WMS" PART NUMBER, W-8887

(BLACK (2) FIELD COIL "HIGH RPM" MOTOR)

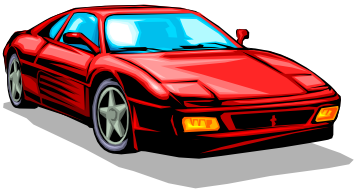
(SPECIAL FIELD COILS FOR QUICKER RESPONSE)

(HEAVY DOUBLE LEAD WIRES TO BRUSHES)

(CW) REPLACES NUMBERS, 1185AC, 1787AC, 1931, W8887, 8789, M-3400, FN2-0001N,

(FENNER FLUID POWER, SPX, WALTCO, MAXON, RED'S HYD.)

(THIS IS FOR "LOW RIDER" APPLICATIONS)



EASY CHANGE BRUSHES

Overall length 7.5"

"12V" SPECIAL DUTY PERFORMANCE MOTOR FOR " LOW RIDERS "
"WMS" PART NUMBER, W-7789

(HD GOLD 4 FIELD COIL DBB (9) SPLINE MOTOR)

DESIGNED FOR HIGHER CURRENT LOADS,

(BANDED ARMATURES W / HD COMMUTATOR)

(HEAVY DOUBLE LEAD WIRES TO BRUSHES)

(SPOT WELDED LEADS FOR BEST CONNECTIONS)

(SPECIAL FIELD COILS FOR QUICKER RESPONSE)

(FENNER FLUID POWER, MAXON, WALTCO, RED'S HYD.)

(THIS IS FOR "LOW RIDER" APPLICATIONS)

** PRESTOLITE STYLE SLOT SHAFT MOTOR **

** THE OLD SCHOOL BAND TYPE FIELD CASE MOTOR **

12V (CW) <> (4) FIELD SLOT SHAFT MOTOR

WITH THE THRU BOLTS AT THE 5 & 11 POSITION

"WMS" PART NUMBER, W-8490

REPLACES NUMBERS, MDY-7039, 46-4040, MDY-7070
W8490, W-8739, MDY7070, MUE-6112, W-8740, 540-004, MDY7039
(APPLICATIONS) (APPLIED ENERGY, BORG WARNER)
(MTE HYDRAULICS, STONE INDUSTRIES, FENNER STONE)
(DELTA POWER, FENNER FLUID POWER, J.S. BARNES CORP)
(ORLIE'S AUTO ACCESSORIES, RED'S HYDRAULICS ETC.)

(CUT DOWN DE DIAMETER OF FIELD FRAME IS 4.150)

.256"/ 6.50mm Shaft slot

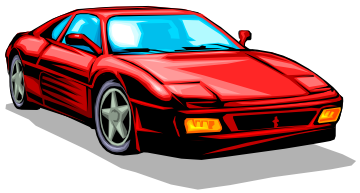
12V (CW) PRESTOLITE SLOT SHAFT MOTOR.

(LATE STYLE (2) FIELD COIL MOTOR)

"WMS" PART NUMBER, W-8273

REPLACES NUMBERS, MUE-6203S
W8273, 46-4070, MUE6203S, W-8973, MUE-6203
APPLICATIONS,
ORLIE HYDRAULICS, RED'S HYDRAULICS
ROADSTER WHEELS, PRO HOPPER INDUSTRIES
(THRU BOLTS ARE AT THE 3 & 9 POSITION)

.256"/ 6.50mm Shaft slot



** SPECIAL ** "CHROME" (9) SPLINE MOTOR

12V * CW * (9) SPLINE MOTOR

"WMS" PART NUMBER, W-9787-LC

(CHROME (4) FIELD COIL MOTOR)

(SPECIAL FIELD COILS FOR QUICKER RESPONSE)
(HEAVY DOUBLE LEAD WIRES TO BRUSHES)

REPLACES NUMBERS, W9787LC
1185AC, 1787AC, 1931, M-3400, FN2-0001N, MZA4001
(FENNER FLUID POWER, WALTCO, MAXON)
(ORLIE'S AUTO ACCESSORIES, RED'S HYDRAULICS)
(For a Ametek / Prestolite motor use number MZA4001)

.256"/ 6.50mm Shaft slot

12V "DBB" (CW) "SLOT SHAFT MOTOR"

(2) FIELD COIL <> "HIGH RPM" MOTOR

(DOUBLE WIRE BRUSH LEADS) (WELDED ARMATURES)

(WITH THE THRU BOLTS AT THE 5 & 11 POSITION)

"WMS" PART NUMBER, W-8801

REPLACES NUMBERS, MUE-6112S, MUE-6203S

W8801, W-8203, 46-4070, MUE-6112, MUE-6113, MUE-6113S,

(APPLICATIONS) (RED'S HYDRAULICS ETC.)

(THIS IS FOR "LOW RIDER" APPLICATIONS)

.256"/ 6.50mm Shaft slot

12V "DBB" (CW) 4 FIELD "SLOT SHAFT MOTOR"

WITH THE THRU BOLTS AT THE 5 & 11 POSITION.

(DOUBLE WIRE BRUSH LEADS) (WELDED ARMATURES)

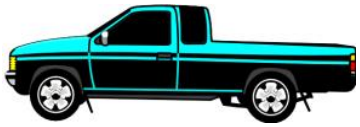
"WMS" PART NUMBER, W-8890D

REPLACES NUMBERS, W8890, 46-4050, MDY-6157, MDY-6157S

(APPLICATIONS)

(RED'S HYDRAULICS, ETC.)

(THIS IS FOR "LOW RIDER" APPLICATIONS)



.256"/ 6.50mm Shaft slot

12V SPECIAL DUTY HIGH PERFORMANCE "SLOT SHAFT MOTOR" FOR "LOW RIDERS"

"WMS" PART NUMBER W-9734D

(OVERALL LENGTH OF MOTOR IS 7"/ 17.78mm)

DESIGNED FOR HIGHER CURRENT LOADS,

(DOUBLE BALL BEARING MOTOR)

(BANDED ARMATURES W/WELDED COMMUTATOR)

(HEAVY DOUBLE LEAD WIRES TO BRUSHES)

(SPOT WELDED LEADS FOR BEST CONNECTIONS)

(SPECIAL PARALLEL FIELD COILS FOR QUICKER RESPONSE)

(CW) SLOT SHAFT

(APPLICATIONS)

(RED'S HYDRAULICS, PRESTOLITE, FENNER, ETC.)

(THIS IS FOR "LOW RIDER" APPLICATIONS)

HIGH RPM *12V* "CHROME" (9) SPLINE MOTOR

"WMS" PART NUMBER, W-9988

(SPECIAL (4) FIELD COIL DESIGN)

(HEAVY DOUBLE LEAD WIRES TO BRUSHES)

REPLACES NUMBERS,
1787AC, 1931, M-3400, FN2-0001N, 46-4072, 1997AC, 1787AC, M-3400-BB, MMY-6101, W9988, W-9787, W-8987, & W-8989

(APPLICATIONS) (FENNER FLUID POWER, WALTCO, MAXON)
(SPX, ORLIE'S AUTO ACCESSORIES, RED'S HYD.)
(STEERING MOTOR FOR MONSTER TRUCKS)

POPULAR CHROME 9 SPL.

The armature has special banding on the windings to handle the high RPM'S

HIGH RPM *12V* "BLACK" (9) SPLINE MOTOR

"WMS" PART NUMBER, W-9988B

(SPECIAL (4) FIELD COIL DESIGN)

(HEAVY DOUBLE LEAD WIRES TO BRUSHES)

REPLACES NUMBERS,
1787AC, 1931, M-3400, FN2-0001N, 46-4072, 1787AC, M-3400-BB, MMY-6101, W9988B, W-9787, W-8987, & W-8989

(APPLICATIONS)
(FENNER FLUID POWER, WALTCO, MAXON)
(SPX, ORLIE'S AUTO ACCESSORIES, RED'S HYD.)
(STEERING MOTOR FOR MONSTER TRUCKS)

(SPECIAL DUTY PRESTOLITE STYLE STREET CHROME)
OLD SCHOOL PLUS DESIGN "WITH IMPROVEMENTS"

***12V/CW* (9) SPL/MOTOR WITH INSULATED GROUND FOR IMPROVED CURRENT FLOWS FOR MORE SPEED**

"WMS" PART NUMBER, W-9799C

(CHROME "HD" SPECIAL (4) FIELD COIL MOTOR)

REPLACES NUMBERS, W-9795, W-9895, MHN-7001
W9799C, W-9788, 1788AC, 46-4195, MHN7001, MHN-7001S, MHN7001A

(APPLICATIONS)
(FENNER FLUID POWER PUMPS, SPX, PRO HOPPER)
(COOL CARS, SHOWTIME HYD., ORLIE'S AUTO ACCESSORIES)
(SPX, RED'S PRO SERIES, AND MANY OTHERS)

VERY POPULAR "HD" 9 SPL.

The armature has special banding on the windings to handle the high RPM'S

Shaft is 2.25" / 57.15mm long

***12V* REEL MOTOR (2) WIRE WITH .625" DIA./ SHAFT**

"WMS" PART NUMBER, P56AN227

(HANNAY HOSE REEL MOTOR)

REPLACES NUMBERS,

P56AN337, P56AN230, P56AN245

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(650 RPM <> 40 AMP. <> 1/3 HP)

(For a motor with a mounting base on the magnet frame use P56AN335)

Shaft is 2.25" / 57.15mm long

***12V* (2) WIRE REEL MOTOR**

(.625" DIA. SHAFT W/WOODRUFF KEY SLOT)

"WMS" PART NUMBER, P56AN239

REPLACES NUMBERS, 99150040, P56AN239

(APPLICATIONS)

(HANNAY HOSE REEL MOTORS, FIRE TRUCKS)

(400 RPM <> 30 AMP. <> 1/5 HP)

Shaft is 2.25" / 57.15mm long

***12V* (2) WIRE REEL MOTOR**

(.625" DIA. SHAFT W/WOODRUFF KEY SLOT)

"WMS" PART NUMBER, P56AN246

REPLACES NUMBERS, P56AN246

(APPLICATIONS)

(HANNAY HOSE REEL MOTORS, FIRE TRUCKS)

(500 RPM <> 40 AMP. <> 1/3 HP)

Shaft is 2.25" / 57.15mm long

***12V* (2) WIRE REEL MOTOR**

(.625" DIA. SHAFT W/WOODRUFF KEY SLOT)

"WMS" PART NUMBER, P56AN247

REPLACES NUMBERS,

(P56AN247, HANNAY HOSE REEL MOTOR)

(APPLICATIONS)

(HOSE REEL MOTORS, FIRE TRUCKS)

(420 RPM <> 30 AMP. <> 1/5 HP)

***24V* REEL MOTOR (2) WIRE WITH .625" DIA./ SHAFT**

"WMS" PART NUMBER, P56AN248

(HANNAY HOSE REEL MOTOR)

REPLACES NUMBERS,

P56-AN248, P56AN230, P56AN245

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(650 RPM <> 20 AMP. <> 1/3 HP)

Shaft is 2.25" / 57.15mm long

***12V* REEL MOTOR (2) WIRE WITH .625" DIA./ SHAFT**

"WMS" PART NUMBER, P56AN335

REPLACES, P56AN222, P56AN239, P56AN346, P56AN335, P56AN337

(APPLICATIONS)
(HOSE REEL MOTORS, FIRE TRUCKS)

(650 RPM <> 40 AMP. <> 1/3 HP)

(THIS MOTOR HAS A MOUNTING BASE WELDED TO THE BOTTOM OF THE MAGNET FRAME AS SHOWN)

Shafts are 2.25" / 57.15mm long

***12V* (2) WIRE REEL MOTOR**

(.625" DIA. SHAFT W/WOODRUFF KEY SLOT)

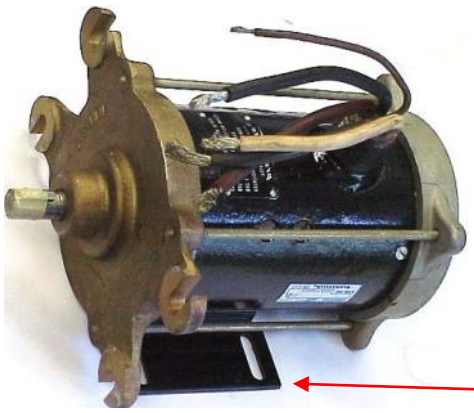
"WMS" PART NUMBER, P56AN343

REPLACES NUMBERS, P56AN343, P56AN341

(APPLICATIONS)
(HANNAY HOSE REEL MOTORS, FIRE TRUCKS)

(600 RPM <> 30 AMP. <> 1/4 HP)

Shafts are 2.25" / 57.15mm long



12V REEL MOTOR (2) WIRE MOTOR

"WMS" PART NUMBER, MHF4004 "NLA"

(OLDER HANNAY HOSE REEL MOTOR)

REPLACES, 46-898, MHF-4001, MHF-4003, MHF-4003S

(APPLICATIONS) HOSE REEL MOTORS, FIRE TRUCKS
TOKHEIM REEL MOTOR, BROWN STEEL TANK REEL MOTOR

(This discontinued motor is for reference only
it is replaced by the P56SX001 or P56SX230 shown below)
(If the old motor has a base mount use P56SX230)
(If the old motor does not have a base mount use P56SX001)

12V REEL MOTOR (2) WIRE MOTOR

"WMS" PART NUMBER, P56SX001

REPLACES, (9915-0003, P56SX401,
(HANNAY HOSE REEL MOTOR)

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(650 RPM <> 53 AMP. <> 1/2 HP)

(.625 DIA. SHAFT LENGTH IS 2.125"/ 53.97mm LONG FROM THE MACHINED MOUNTING FACE OF THE DRIVE END)

12V REEL MOTOR WITH BASE (2) WIRE MOTOR

"WMS" PART NUMBER, P56SX007

(HANNAY HOSE REEL MOTOR)

REPLACES NUMBER, 1-222407, 9915.0023, P56SX024

(APPLICATIONS)
(HOSE REEL MOTORS, FIRE TRUCKS)

(650 RPM <> 53 AMP <>1/2 HP)

(.625" DIA. / 1.125" / 28.57mm LONG SHAFT WITH KEY SLOT)

***12V* REEL MOTOR WITH SPEC/DE MOUNT (2) WIRE MOTOR**

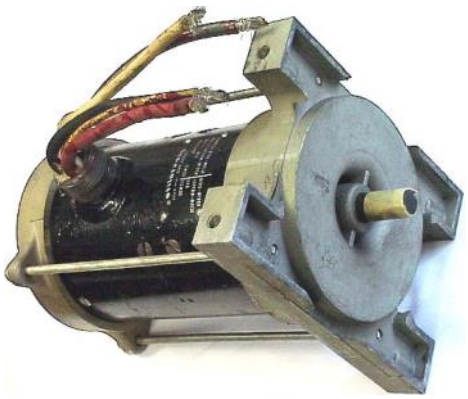
"WMS" PART NUMBER, MHF5001 "NLA"

(OLDER HANNAY HOSE REEL MOTOR)

REPLACES, 46-898, MHF-4001, MHF-4003, MHF-4003S

(APPLICATIONS) HOSE REEL MOTORS, FIRE TRUCKS
TOKHEIM REEL MOTOR, BROWN STEEL TANK REEL MOTOR

(This discontinued motor is for reference only
it is replaced by the P56SX007WB shown below)



***12V* REEL MOTOR WITH SPEC/DE MOUNT (2) WIRE MOTOR**

"WMS" PART NUMBER, P56SX007WB

(HANNAY HOSE REEL MOTOR)

REPLACES, 46-898, MHF-4001, MHF-4003, MHF-4003S, MHF5001

(APPLICATIONS) HOSE REEL MOTORS, FIRE TRUCKS
TOKHEIM REEL MOTOR, BROWN STEEL TANK REEL MOTOR

(650 RPM <> 1/2 HP <> 53 AMP)

(.625" DIA. / 1.125" / 28.57mm LONG SHAFT WITH KEY SLOT)
(For 24V use number P56SX034WB)

***12V* REEL MOTOR WITH BASE (2) WIRE MOTOR**

"WMS" PART NUMBER, P56SX010

(HANNAY HOSE REEL MOTOR)

REPLACES NUMBER, P56SX010

(APPLICATIONS)

(HOSE REEL MOTORS, FIRE TRUCKS, ETC.)

(700 RPM <> 75 AMP <> 2/3 HP)

(SHAFT LENGTH IS 2.125"/ 53.97mm LONG FROM THE
MACHINED MOUNTING FACE OF THE DRIVE END)

***24V* REEL MOTOR (2) WIRE MOTOR**

"WMS" PART NUMBER, P56SX017

REPLACES, (P56SX017, 260626

(APPLICATIONS)
(HANNAY HOSE REEL MOTOR)

(650 RPM <> 26 AMP. <> 1/2 HP)

(SHAFT LENGTH IS 2.125"/ 53.97mm LONG FROM THE MACHINED MOUNTING FACE OF THE DRIVE END)

***24V* REEL MOTOR (2) WIRE MOTOR**

"WMS" PART NUMBER, P56SX034

REPLACES, (HANNAY HOSE REEL MOTOR)

REPLACES NUMBER, P56SX034

(700 RPM <> 38 AMP. <> .67 HP)

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(.625" DIA. / 1.125" / 28.57mm LONG SHAFT WITH KEY SLOT)
(For a motor with square mount at the shaft end use P56SX034WB)

***12V* REEL MOTOR (2) WIRE MOTOR**

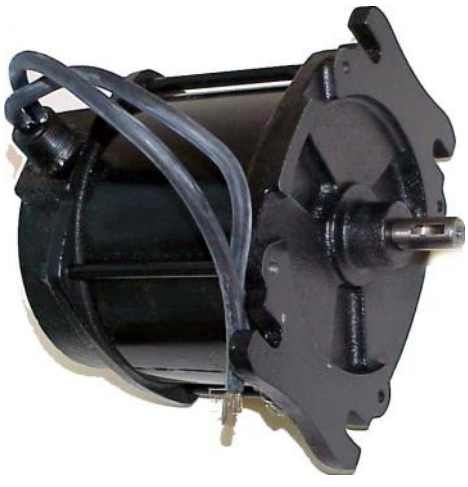
"WMS" PART NUMBER, P56SX038

REPLACES, P56SX035, 9915.0283, P56-SX-038

(APPLICATIONS) (HANNAY HOSE REEL MOTOR)

(650 RPM <> 53 AMP. <> 1/2 HP)

(SHAFT LENGTH IS 2.125"/ 53.97mm LONG FROM THE MACHINED MOUNTING FACE OF THE DRIVE END)



***12V* REEL MOTOR (2) WIRE MOTOR**

"WMS" PART NUMBER, P56SX043

REPLACES NUMBERS, P56SX032, 150009, 1400X7000, 9915.0009

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(500 RPM <> 75 AMP. <> 2/3 HP)

(THIS IS A 500 RPM VERSION OF THE P56SX343 MOTOR)

(SHAFT LENGTH IS 2.125"/ 53.97mm LONG FROM THE MACHINED MOUNTING FACE OF THE DRIVE END)

12V SALT SPREADER MOTOR (2) WIRE MOTOR

(.625" DIA. SHAFT W/A 13/64" PIN HOLE)

"WMS" PART NUMBER, P56SX049

(CONTINOUS DUTY SPREADER MOTOR)

REPLACES NUMBERS, 0415005100, 500049, 34102

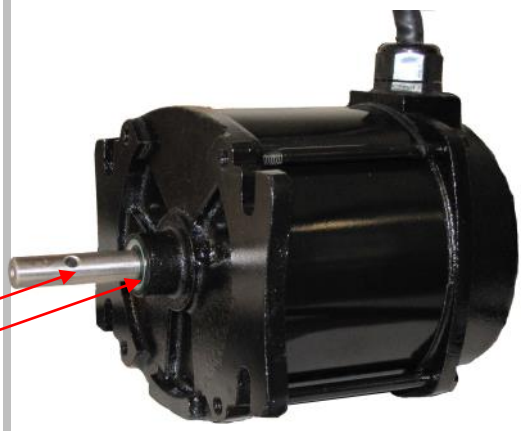
(APPLICATIONS) (MEYER & SWENSON SPREADER)

(MOTOR HAS A SIX FOOT LONG CONNECTING CABLE)

(The hole in the shaft is 1.140 / 28.95mm from the outer end)

(The drive end frame has a shaft seal)

(Shaft length from the seal is 2.5"/63.5mm) (650 RPM <> 20 AMP. <> 1/2HP)



12V REEL MOTOR (2) WIRE MOTOR

"WMS" PART NUMBER, P56SX102

REPLACES, P56SX0102, 15.0013, 9915.0013

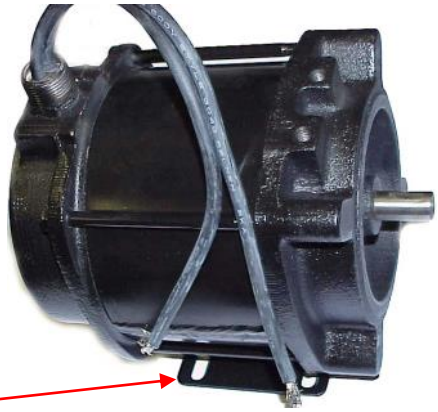
(HANNAY HOSE REEL MOTOR)

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(650 RPM <> 53 AMP. <> 1/2 HP)

(.625" DIA. / 1.125" / 28.57mm LONG SHAFT WITH KEY SLOT)

(THIS MOTOR HAS A MOUNTING BASE WELDED TO THE CASE)



12V REEL MOTOR (2) WIRE MOTOR

"WMS" PART NUMBER, P56SX103

REPLACES, P56SX0103, 15.0014, 9915.0014

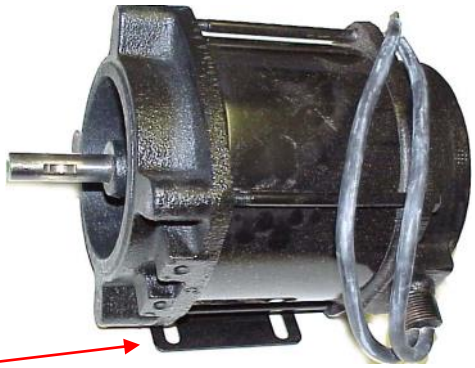
(HANNAY HOSE REEL MOTOR)

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(500 RPM <> 53 AMP. <> 2/3 HP)

(.625" DIA. / 2.375" / 60.32mm LONG SHAFT WITH KEY SLOT)

(THIS MOTOR HAS A MOUNTING BASE WELDED TO THE CASE)



24V REEL MOTOR (2) WIRE MOTOR

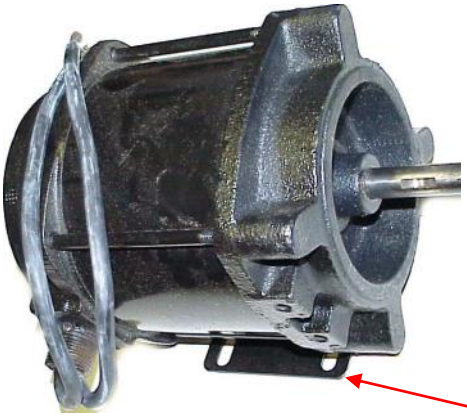
"WMS" PART NUMBER, P56SX123

REPLACES, (9915.0113, HANNAY HOSE REEL MOTOR)

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(650 RPM <> 26 AMP. <> 1/2 HP)

(SHAFT LENGTH IS 2.125"/ 53.97mm LONG FROM THE MACHINED MOUNTING FACE OF THE DRIVE END)



***12V* REEL MOTOR WITH BASE (2) WIRE MOTOR**

"WMS" PART NUMBER, P56SX139

(HANNAY HOSE REEL MOTOR)

REPLACES NUMBER, 99150012RM, 9915.0012, P-56SX139

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(500 RPM <> 53 AMP. <> 2/3 HP)

(5/8" DIA. / 2.375" / 60.32mm LONG SHAFT WITH KEY SLOT)

(THIS MOTOR HAS A MOUNTING BASE WELDED TO THE CASE)

***12V* REEL MOTOR WITH BASE (2) WIRE MOTOR**

"WMS" PART NUMBER, P56SX230

(HANNAY HOSE REEL MOTOR)

REPLACES, 46-2027, MHF4004, 5000230, P56SX237RM, P56SX237

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(700 RPM <> 75 AMP <> 2/3 HP)

(SHAFT LENGTH IS 2.125"/ 53.97mm LONG FROM THE MACHINED MOUNTING FACE OF THE DRIVE END)

(THIS MOTOR HAS A MOUNTING BASE WELDED TO THE CASE)

***12V* REEL MOTOR (2) WIRE MOTOR**

"WMS" PART NUMBER, P56SX343

REPLACES NUMBERS, 370071, P56SX343

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(600 RPM <> 75 AMP. <> 2/3 HP)

(THIS IS A 2/3 HP VERSION OF THE P56SX401 1/2 HP MOTOR)

(SHAFT LENGTH IS 2.125"/ 53.97mm LONG FROM THE MACHINED MOUNTING FACE OF THE DRIVE END)

12V REEL MOTOR (2) WIRE MOTOR

"WMS" PART NUMBER, P56SX401

REPLACES NUMBERS,

(9915-0003, P56SX001, HANNAY HOSE REEL MOTOR)

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(650 RPM <> 53 AMP. <> 1/2 HP)

(SHAFT LENGTH IS 2.125"/ 53.97mm LONG FROM THE MACHINED MOUNTING FACE OF THE DRIVE END)

12V REEL MOTOR (2) WIRE MOTOR

(0.500"/12.7mm DIA. SHAFT W/WOODRUFF KEY SLOT)

"WMS" PART NUMBER, P56SX401-5

REPLACES, (10210, 18928, MY10210, 1138-X-4908)

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(650 RPM <> 53 AMP. <> 1/2 HP)

(SHAFT LENGTH IS 2.125"/ 53.97mm LONG FROM THE MACHINED MOUNTING FACE OF THE DRIVE END)

24V REEL MOTOR (2) WIRE MOTOR

"WMS" PART NUMBER, P56SX034WB

REPLACES, (HANNAY HOSE REEL MOTOR)

REPLACES NUMBER, P56SX034, MML4001

(700 RPM <> 38 AMP. <> .67 HP)

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(.625" DIA. / 1.125" / 28.57mm LONG SHAFT WITH KEY SLOT)

(For 12V use number P56SX007WB)

24V PRESTOLITE REEL MOTOR (5) WIRE MOTOR

"WMS" PART NUMBER, MML-4001

REPLACES, (HANNAY HOSE REEL MOTOR)

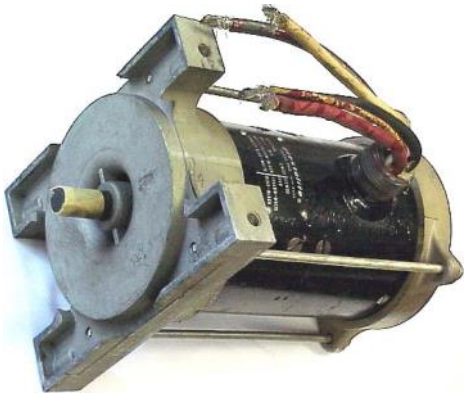
REPLACES NUMBER, MML4001

(700 RPM <> 38 AMP. <> .67 HP)

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(.625" DIA. / 1.125" / 28.57mm LONG SHAFT WITH KEY SLOT)

(Can use above late style PM motor number P56SX034WB)



12V HOSE REEL MOTOR

(.625" DIA. SHAFT W/WOODRUFF KEY SLOT AT EACH END OF THE MOTOR SO IT CAN BE USED FOR CW OR CCW ROTATION)

"WMS" PART NUMBER, MER4001A

REPLACES, (HANNAY AND PHILADELPHIA VALVE)

(APPLICATIONS) (HOSE REEL MOTORS, FIRE TRUCKS)

(THIS IS A "REMAN UNIT WITH A CORE CHARGE)

SHAFT IS 2" LONG

12V "CW" DBB REEL MOTOR

"WMS" PART NUMBER, W-6024

REPLACES NUMBERS LISTED BELOW FOR "CW"

W6024, 46-360, MER-4001, MER-4001A

(APPLICATIONS) (HOSE REEL MOTOR)

WITH WOODRUFF KEY SLOT AND .625" DIA. SHAFT

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/76.2mm)

(MOTOR HAS 4 1/4X20 BOLT EXTENSIONS FOR MOUNTING)

SHAFT IS 2" LONG

12V "CCW" DBB REEL MOTOR

"WMS" PART NUMBER, W-6025

REPLACES NUMBERS LISTED BELOW FOR "CCW"

W6025, 46-360, MER-4001, MER-4001A

(APPLICATIONS) (HOSE REEL MOTOR)

WITH WOODRUFF KEY SLOT AND .625" DIA. SHAFT

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/76.2mm)

(MOTOR HAS 4 1/4X20 BOLT EXTENSIONS FOR MOUNTING)

SHAFT IS 2" LONG

5mm METRIC THRU BOLTS

* 12V * "CW" (2) POST MOTOR WITH SLOT SHAFT

"WMS" PART NUMBER, W-8041

REPLACES NUMBERS, W8041, 11.212.967, MF-4302

(APPLICATIONS) (SPX, FENNER & MONARCH)

(RAISED ALINGMENT RING DIAMETER IS 40.0mm)

(ARMATURE SLOT IS .156"/ 3.96mm)

5mm METRIC THRU BOLTS

* 24V * *(CW)* (2) POST MOTOR*SLOT SHAFT MOTOR*

"WMS" PART NUMBER, 11.212.968

REPLACES NUMBERS, MF4303, 11.212.968, MF-4303

(APPLICATIONS) (SPX, FENNER & MONARCH)

(RAISED ALINGMENT RING DIAMETER IS 40.0mm)

(ARMATURE SLOT IS .156"/ 3.96mm)

3” DIAMETER ISKRA MOTORS (12V & 24V)

***12V * *(CCW)* (1) POST MOTOR**

(ONE TERMINAL POST) SLOT SHAFT MOTOR

“WMS” PART NUMBER, IM-0155

REPLACES, IM0155, 08023, AME1595, AME1736, 11.216.338

(APPLICATIONS) (MONARCH) .05 KW

(ARMATURE SLOT IS .256”/ 6.50mm) (THRU BOLT THREADS ARE 5mm)

*** 24V * *(CCW)* (1) POST MOTOR**

(ONE TERMINAL POST) SLOT SHAFT MOTOR

“WMS” PART NUMBER, IM-0156

REPLACES, AME1596, AME1737, IM0156, W-8036, AME-1596, 11.216.180

(APPLICATIONS) (MONARCH) .05 KW

(ARMATURE SLOT IS .256”/ 6.50mm) (THRU BOLT THREADS ARE 5mm)

***24V * *(CCW)* (1) POST MOTOR**

(ONE TERMINAL POST) SLOT SHAFT MOTOR

“WMS” PART NUMBER, IM-0157

REPLACES NUMBERS,

11.216.340, AME-1738, 08044, IM0157,

(APPLICATIONS) (MONARCH) .08 KW

(ARMATURE SLOT IS .256”/ 6.50mm) (THRU BOLT THREADS ARE 5mm)

***12V * *(CCW)* (1) POST MOTOR**

(ONE TERMINAL POST) SLOT SHAFT MOTOR

“WMS” PART NUMBER, IM-0164

REPLACES, 11.212.995, IM0164, AME-1545, W-8053, AME-1719, 11.216.237

(APPLICATIONS) (MONARCH) .08 KW

(ARMATURE SLOT IS .256”/ 6.50mm) (THRU BOLT THREADS ARE 5mm)

***12V * *(CW)* (2) POST MOTOR**

(TWO TERMINAL POST) SLOT SHAFT MOTOR W/”OLP”

“WMS” PART NUMBER, IM-0195

REPLACES, AME1717, 11.216.235, IM0195, 11.216.235, AME-1717

(APPLICATIONS) (SPX, MONTEC) (.08 KW)

(ARMATURE HAS A .256”/ 6.50mm SLOT)

WITH OVERLOAD PROTECTION

3” DIAMETER ISKRA MOTORS (12V & 24V)

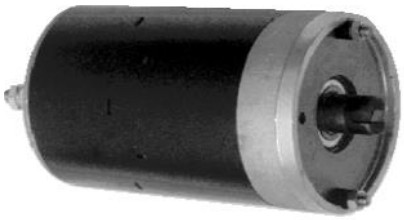
.256”/ 6.50mm Shaft slot

* 24V * *(CCW)* 3” DIAMETER MOTOR

SLOT SHAFT MOTOR WITH 0.256 SLOT (.8KW)

“WMS” PART NUMBER, IM-0152

REPLACES NUMBERS, IM0152, 11.216.299, AME1713, 39200431
Z-EMDC-2A-AAG, AME1563, 11.216.073, 11.216.199
(APPLICATIONS) (RELATED FLUID POWER, MTE)

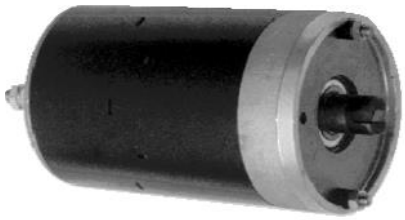


*12V * *(F & R)* (2) POST MOTOR

(TWO TERMINAL POST) MOTOR WITH INS / GRD.

“WMS” PART NUMBER, IM-0209

REPLACES, 101688-5-12, AME1769, 11.216.463, IM0209, AME-1769
(APPLICATIONS) (SPX, SMITH INDUSTRIES) (.08 KW)
(Extended shaft is 14.4mm/.567” from outer DE edge with a 6.50mm/.256” SLOT)

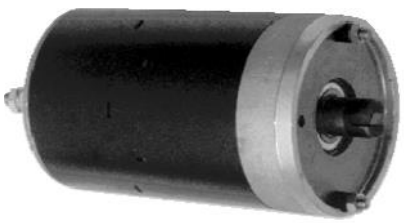


*24V * *(F & R)* (2) POST MOTOR

(TWO TERMINAL POST) MOTOR WITH INS / GRD.

“WMS” PART NUMBER, IM-0210

REPLACES, 101688-5-24, AME1770, 11.216.464, IM0210
(APPLICATIONS) (SPX, SMITH INDUSTRIES) (.08 KW)
(Extended shaft is 14.4mm/.567” from outer DE edge with a 6.50mm/.256” SLOT)



*24V * *(CW)* (2) POST MOTOR

(TWO TERMINAL POST) MOTOR WITH INS / GRD.

“WMS” PART NUMBER, IM-0211

REPLACES, 101688-1-24, AME1772, 11.216.470, IM0211
(APPLICATIONS) (SPX, SMITH INDUSTRIES) (.05 KW)
(Extended shaft is 14.4mm/.567” from outer DE edge with a 6.50mm/.256” SLOT)

*12V * *(CCW)* (1) POST *SLOT SHAFT MOTOR*

“WMS” PART NUMBER, IM-0214

REPLACES NUMBERS,
W-8053D, 8004, AME1779, IM0214, 08004, AME-1779, 11.216.491
(APPLICATIONS) (BUCHER & MONARCH) (.08 KW)
(ARMATURE SLOT IS .256”/6.50mm) (THRU BOLT THREADS ARE 5mm)

3" DIAMETER ISKRA & WMS MOTORS (12V & 24V)

* 12V * *(F & R)* (2) POST MOTOR

(TWO TERMINAL POST) .256 SLOT SHAFT MOTOR (.8KW)

"WMS" PART NUMBER, W-414850

REPLACES, W414850, 414850

(APPLICATIONS)

(PUMP MOTOR FOR SLIDE OUT ON MOTOR HOMES etc.)

(Large raised ring diameter on the drive end frame is 2.50"/ 63.5mm)

(Small raised ring diameter on the drive end frame is 1.535"/ 38.9mm)

*24V * (CCW) (2) POST SLOT SHAFT MOTOR (.08 KW)

"WMS" PART NUMBER, IM-0311

REPLACES NUMBERS, AME1124, 11.216.786, IM0311, 2201123,

(APPLICATIONS) (HALDEX, CONCENTRIC)

(ARMATURE HAS A .256"/ 6.50mm SLOT)

(Slot shaft is .305"/ 7.75mm past the bearing race)

(The raised alignment ring on the DE frame is 1.575"/ 40.mm)

* 24V * (2) POST MOTOR WITH SLOT SHAFT

(TWO TERMINAL POST INSULATED GROUND)

"WMS" PART NUMBER, IM-0315

REPLACES NUMBERS, 08051, 11216535, W-8051, 104029

(APPLICATIONS) (SPX, FENNER & MONARCH)

(ARMATURE SLOT IS .256"/6.50mm) (THRU BOLT THREADS ARE 5mm)

5mm METRIC THRU BOLTS

* 24V * (2) POST MOTOR WITH SLOT SHAFT

(TWO TERMINAL POST INSULATED GROUND WITH "OLP")

"WMS" PART NUMBER, IM-0317

REPLACES NUMBERS, W8051A, 11216540, 11.216.795, 08251, AME1790

(APPLICATIONS) (SPX, FENNER & MONARCH)

(ARMATURE SLOT IS .256"/6.50mm) (THRU BOLT THREADS ARE 5mm)

5mm METRIC THRU BOLTS

*12V * *(CCW)* (1) POST *SLOT SHAFT MOTOR W/OLP*

"WMS" PART NUMBER, IM-0318

REPLACES NUMBERS,

W-8053A, 08211, AME1128, IM0318, 8211, 11.216.794

(APPLICATIONS) (BUCHER & MONARCH) (.08 KW)

(ARMATURE SLOT IS .256"/6.50mm) (THRU BOLT THREADS ARE 5mm)

4.5” DIAMETER ISKRA & WMS TANG SHAFT MOTORS (12V & 24V)

12V (CW) **DBB***

MOTOR WITH TANG SHAFT AND SOLENOID

“WMS” PART NUMBER, W-36611

REPLACES NUMBER, W36611, W6611, 36611

APPLICATIONS, MISC. LIFTS

(THE SHAFT TANG IS 8mm THICK, 18mm WIDE & 8.65mm DEEP)

(THE RAISED RING DIAMETER ON DRIVE END IS 2.80”)

(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700” LONG)

(FOR A 24V MOTOR USE NUMBER W-36612)

24V (CW) TANG SHAFT MOTOR *DBB* (INS / GRD.)

“WMS” PART NUMBER, W-36612

REPLACES NUMBER, W36612, 36612 <> MISC. LIFTS

(THE SHAFT TANG IS 8mm THICK, 18mm WIDE & 8.65mm DEEP)

(THE RAISED RING DIAMETER ON DRIVE END IS 2.80”)

(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700” LONG)

(FOR A 12V MOTOR USE NUMBER W-36611)

24V (CCW)*DBB* TANG SHAFT MOTOR (INS/GRD.)

“WMS” PART NUMBER, W-4134B

REPLACES, W4134B, AMJ-5729, 5800-31701, IM-0144

114134, 114134B, 1511892, 2049502, 2071868, 580031701

APPLICATIONS, HYDROPERFECT

(Raised alignment ring diameter is 76.2mm (3.00”)

(Shaft tang is .325”/82.55mm deep & .786”/19.96mm wide)

12V (CCW)*DBB* TANG SHAFT MOTOR (INS/GRD.)

“WMS” PART NUMBER, W-4135B

REPLACES NUMBERS, W4135B, 114133, 114133B,

APPLICATIONS, HYDROPERFECT

(Raised alignment ring diameter is 76.2mm (3.00”)

(Shaft tang is .325”/82.55mm deep & .786”/19.96mm wide)

(For a 24V motor use number W-4134B)

4.5” DIAMETER ISKRA TANG SHAFT MOTORS (12V & 24V)

**24V* “HD“ (CW) TANG SHAFT MOTOR 2.1 KW (2200 RPM)*

“WMS” PART NUMBER, IM-0002

REPLACES NUMBERS, 0318151, IM0002, 11.212.067
AMJ5633, 36631, AMJ-5633, 11212067, 543923813, 36315, 36631

(APPLICATIONS)
(BUCHER HYD., MONARCH HYD., EFEL, HIDRO TECHNIC)
(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)
(This is a 24V version of the IM-0003)

**12V* (CW) MOTOR WITH TANG SHAFT 1.5 KW (2300 RPM)*

“WMS” PART NUMBER, IM-0003

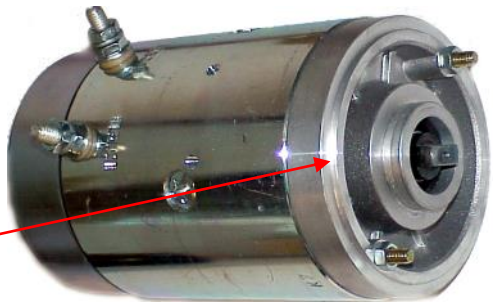
REPLACES NUMBERS, 11.212.085, IM0003
105649, 11.212.057, 543913416, AMJ5625, 599999047, AMJ5649

(APPLICATION)
MONARCH HYD., BUCHER HYDRAULICS (HIDROIRMA)
(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)
(This is a 12V version of the IM-0002)

**12V* (CW) MOTOR WITH TANG SHAFT 1.5 KW (2300 RPM)*

“WMS” PART NUMBER, IM-0005

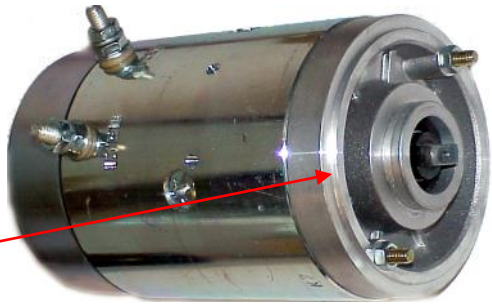
REPLACES NUMBERS,
11212089, AMJ-5653, IM0005, 11.212.089, AMJ5653, 14916500105
(APPLICATION) OMFB
(Special drive end frame with outer alignment ring)
(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)
(This is a 12V version of the IM-0006)



**24V* (CW) MOTOR WITH TANG SHAFT 2 KW (2200 RPM)*

“WMS” PART NUMBER, IM-0006

REPLACES NUMBERS, MCB20-24, IM0006, 11212090
11.212.074, 11.212.090, 14916500123, AMJ5640, AMJ5654
(APPLICATIONS) OMFB, CASAPPA
(Special drive end frame with outer alignment ring)
(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)
(This is a 24V version of the IM-0005)



4.5” DIAMETER ISKRA TANG SHAFT MOTORS (12V & 24V)

**12V* (CW) MOTOR WITH TANG SHAFT 1.6 KW (2750 RPM)*

“WMS” PART NUMBER, IM-0028

REPLACES, W-7864, 11.212.864, IM0028, 0136531, 0136611,

(APPLICATION)

(OIL SISTEM, GEORGI KOSTOV)

(THE ALIGNMENT RINGS ON DE FRAME ARE 32MM & 42MM)

(This is a 12V version of the IM-0029)

**24V* (CW) MOTOR WITH TANG SHAFT 2.2 KW (2600 RPM)*

“WMS” PART NUMBER, IM-0029

REPLACES NUMBERS, AMJ-5239, W-5642, IM0029

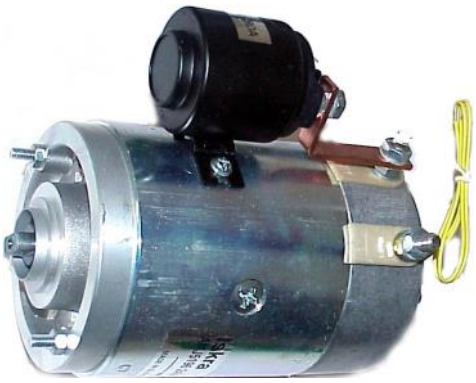
AMJ-5652, AMJ-5178, 0136537, 0136612, 11.212.088, 11.212.865

(APPLICATION)

(BUCHER HYDRAULICS) (HIDROIRMA)

(THE ALIGNMENT RINGS ON DE FRAME ARE 32MM & 42MM)

(This is a 24V version of the IM-0028)



WITH OVERLOAD PROTECTION

**24V* (CW) TANG SHA/MOTOR W/SW & “OLP” 2.2KW (2600 RPM)*

“WMS” PART NUMBER, IM-0038

REPLACES, 358.001.00, IM0038, AMJ5196, 11.212.736

(APPLICATION) (ANTEO, SMOES, HYDROVEN)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE DE FACE HAS A RAISED RING FOR MOUNTING)

(THE ALIGNMENT RINGS ON DE FRAME ARE 32MM & 42MM)

(This is a 24V version of the IM-0039)

WITH OVERLOAD PROTECTION

**12V* (CW) TANG SHA/MOTOR W/SW & “OLP” 1.6KW (2600 RPM)*

“WMS” PART NUMBER, IM-0039

REPLACES NUMBERS,

W-7865, IM0039, 11.212.737, 358001, 35803200, AMJ5197, AMJ-5197

(APPLICATIONS) (ANTEO, SMOES, HYDROVEN)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE ALIGNMENT RINGS ON DE FRAME ARE 32MM & 42MM)

(This is a 12V version of the IM-0038)

4.5” & 5” DIAMETER ISKRA TANG SHAFT MOTORS (12V & 24V)

***12V* (CW) *DBB MOTOR WITH* TANG SHAFT AND “OLP”**

“WMS” PART NUMBER, W-7864A

REPLACES, 98-529.50-00, 98-5295.50-0000002
98-529500000002, 9852950-0000014, 98-52950000014
AMJ5701, W7864A, IM-0117, AMJ-5701, 11.212.077, 98-52950

APPLICATIONS, OIL SYSTEM, GEORGI KOSTOV

(THE SHAFT TANG IS 8mm THICK, 18mm WIDE & 8.65mm DEEP)

(THE SHAFT LENGTH FROM DE FRAME IS 17.80mm (.700” LONG)

(The alignment rings on DE frame are 32mm and 42mm in diameter)

WITH OVERLOAD PROTECTION

****12V* (CCW) TANG SHA/MOTOR 2.1 KW (2000 RPM)***

“WMS” PART NUMBER, IM-0041

REPLACES, 195726, 11.212.792, AMJ-5226

106-671, 106-671A, 106-671B, 11212792, IM0041, AMJ5226

(APPLICATION) (MIC, HPI)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)

(FOR A “CW” ROTATION MOTOR USE NUMBER IM-0003)

****24V* (CW) TANG SHA/MOTOR WITH “OLP” 2.2 KW (2600 RPM)***

“WMS” PART NUMBER, IM-0057

REPLACES, 11.212.770, 11.212.987, AMJ5217

IM0057, AMJ5279, C162051003, 162051003, W-5642A

(APPLICATION) (OIL SYSTEMS)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE ALIGNMENT RINGS ON DE FRAME ARE 32MM & 42MM)

(This is a 24V version of the IM-0117)

WITH OVERLOAD PROTECTION

****12V* (CW) TANG SHA/MOTOR WITH “OLP” 1.6 KW (2750 RPM)***

“WMS” PART NUMBER, IM-0117

REPLACES, W-7864A, 11.216.077

C162051002, C162OS1002, IM0117, AMJ-5701,

(APPLICATION) (OIL SYSTEMS)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE ALIGNMENT RINGS ON DE FRAME ARE 32MM & 42MM)

(This is a 12V version of the IM-0057)

WITH OVERLOAD PROTECTION

4.5” DIAMETER ISKRA & WMS TANG SHAFT MOTORS (12V & 24V)

12V (CW) DBB *MOTOR W/ TANG SHAFT 1.7 KW (2500 RPM)*

“WMS” PART NUMBER, IM-0135

REPLACES NUMBERS, W-7863, 1517220533, 1517220557
IM0135, AMJ5716, AMJ-5716, 11.212.750, 11.216.203

(APPLICATION) (BOSCH)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(SPECIAL BOSCH STYLE DE FRAME)

(THIS IS A 12V VERSION OF THE IM-0139)

WITH OVERLOAD PROTECTION

12V (CW) DBB *MOTOR W/ TANG SHAFT & OLP 1.7 KW (2500 RPM)*

“WMS” PART NUMBER, IM-0136

REPLACES NUMBERS,
1517220561, IM0136, 11.216.204, AMJ5717
0136355054, 0541100020, 1517220510, 1517220535

(APPLICATIONS) (BOSCH, BERENDSEN)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(SPECIAL BOSCH STYLE DE) (THIS IS A 12V VERSION OF THE IM-0139)

WITH OVERLOAD PROTECTION

24V(CW) DBB *MOTOR W/TANG SHAFT & OLP 2.2 KW (2500 RPM)*

“WMS” PART NUMBER, IM-0139

REPLACES NUMBERS, W-7858A, AMJ-5720, 11.216.208
IM0139, 0135355012, 0136355014, 0136355037, 0135355038 etc.

(APPLICATIONS) (BOSCH, VOLVO, BERENDSEN)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(SPECIAL BOSCH STYLE DE FRAME)

(THIS IS A 24V VERSION OF THE IM-0135)

24V (CW)*DBB* TANG SHAFT MOTOR (INS / GRD.)

“WMS” PART NUMBER, W-6384

REPLACES NUMBER, W6384, 36384

APPLICATIONS, MISC. LIFTS

(THE RAISED RING DIAMETER ON DRIVE END IS 3.90”/ 99.00mm)

(THE SHAFT TANG IS 8mm WIDE & 18.50mm LONG)

4.5” DIAMETER ISKRA & WMS TANG SHAFT MOTORS (12V & 24V)

24V*(CW) DBB *MOTOR W/TANG SHAFT & OLP 2.2 KW (2500 RPM)

“WMS” PART NUMBER, IM-0140

REPLACES NUMBERS,

IM0140, 2214, 11.216.209, AMJ5721, 0136355068, 0136355071

0541000009, 0541100018, W7858, 0541100019, 1517220515, 1517220521

(APPLICATION) (BOSCH)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(SPECIAL BOSCH STYLE DE FRAME)

24V*(CW) DBB *MOTOR W/TANG SHAFT & OLP 2.2 KW (2500 RPM)

WITH OVERLOAD PROTECTION

“WMS” PART NUMBER, IM-0142

REPLACES NUMBERS,

IM0142, 11.216.211, AMJ5723, 0136355013, 1517220522

1418258, 0136355058, W7858A, 0136355071, 0136355076, 1517220511

(APPLICATION) (BOSCH)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(SPECIAL BOSCH STYLE DE FRAME)

24V*(CCW) DBB *MOTOR W/TANG SHAFT 2.1 KW (2800 RPM)

“WMS” PART NUMBER, IM-0144

REPLACES NUMBERS,

W-4134B, IM0144, 113349, 115434, AMJ5722, 11.216.225

(APPLICATION) (HPI) *(SPECIAL HPI DE FRAME)*

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(For a motor with “OLP” use IM-0163)

***24V* (CCW)*DBB* TANG SHAFT MOTOR (INS/GRD.)**

“WMS” PART NUMBER, W-4134B

REPLACES, W4134B, AMJ-5729, 5800-31701, IM-0144

114134, 114134B, 1511892, 2049502, 2071868, 580031701

APPLICATIONS, HYDROPERFECT

(Raised alignment ring diameter is 76.2mm (3.00”)

(Shaft tang is .325”/82.55mm deep & .786”/19.96mm wide)

4.5” DIAMETER ISKRA TANG SHAFT MOTORS (12V & 24V)

24V* (CW) DBB *MOTOR WITH TANG SHAFT 2.2 KW (2500 RPM)

“WMS” PART NUMBER, IM-0161

REPLACES NUMBER, IM0161, AMJ-5243, 11.216.205
AMJ-5718, 1547220506, 1547220532, AMJ5243, AMJ5718
1547220500, 1547220506, 1547220532, E190008, E190020

(APPLICATION) (BOSCH)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)

24V* (CCW) DBB *MOTOR W/ TANG SHAFT & OLP 2.1 KW (2200 RPM)

“WMS” PART NUMBER, IM-0162

REPLACES NUMBER,
IM0162, 112373, AMJ5126, 11.212.559

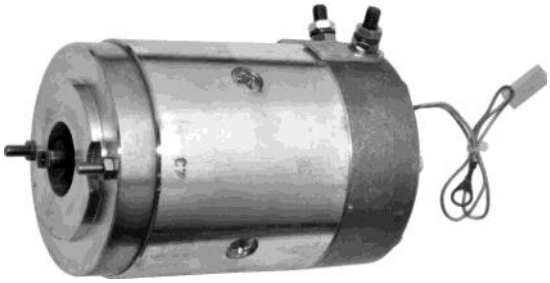
(APPLICATION) (ARNE LUNDE, HPI)

(This is a “CCW” version of a IM-0002)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)

WITH OVERLOAD PROTECTION



24V* (CCW) DBB *MOTOR W/ TANG SHAFT & OLP 2.1 KW (2200 RPM)

“WMS” PART NUMBER, IM-0163

REPLACES NUMBER,
IM0163, 114134, 114563, P2715, AMJ5753, 11.216.380

(APPLICATION) (HPI)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(For a motor without “OLP” use IM-0144)

12V* (CW) DBB *VENTED MOTOR W/ TANG SHAFT 1.5 KW (2300 RPM)

“WMS” PART NUMBER, IM-0186

REPLACES NUMBER, 11212596,W-5643, IM0186
162077000, AMJ5143, AMJ-5143, C162077000, 11.212.596

(APPLICATION) (OIL SYSTEM)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)

4.5” DIAMETER ISKRA TANG SHAFT MOTORS (12V & 24V)

12V*(CW) DBB *MOTOR W/ TANG SHAFT 1.5 KW (2500 RPM)

“WMS” PART NUMBER, IM-0188

REPLACES, 1547220531, 1547220502, AMJ-5681 1547220517, 11.216.024, 2200502, AMJ-5285, 11212132, 11212356, W-7852, IM0188, AMJ5681, 11.212.132, 11.212.356, AMJ5285, 11216024

(APPLICATION) (BOSCH, MISC. / LIFTS)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)

12V*(CCW) DBB *MOTOR W/ TANG SHAFT & SW 1.6 KW (2500 RPM)

“WMS” PART NUMBER, IM-0199

REPLACES, IM0199, AMJ-4787, 11.216.400

(APPLICATION) (MISC. FLUID POWER EQUIPMENT)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)

(This is a 12V version of the IM-0200)

24V*(CCW) DBB *MOTOR W/ TANG SHAFT & SW 2.2KW (2750 RPM)

“WMS” PART NUMBER, IM-0200

REPLACES, AMJ-4788, IM0200, 11.216.401, W-5640, AMJ4788

(APPLICATION) (MISC. FLUID POWER EQUIPMENT)

(THE SHAFT TANG IS 8MM THICK, 18MM WIDE & 8.65 MM DEEP)

(THE ALIGNMENT RING ON THE DE FRAME IS 42MM IN DIAMETER)

(This is a 24V version of the IM-0199)

24V* (CCW) SLOT SHAFT MOTOR WITH *“INSULATED GROUND” W/”OLP”

“WMS” PART NUMBER, 11.216.300

REPLACES NUMBERS,

11216300, AMJ4768, 11216300, AMJ-4768

(APPLICATIONS)

(HALDEX, HYDRIS, CONCENTRIC)

WITH OVERLOAD PROTECTION

.256”/ 6.50mm Shaft slot

4.5” DIAMETER ISKRA SLOT SHAFT MOTORS (12V & 24V)

.256”/ 6.50mm Shaft slot

**24V* “HD“ (CCW) INSULATED GROUND SLOT SHAFT MOTOR (1.9 KW) (4300 RPM)*

“WMS” PART NUMBER, IM-0007

(THIS “HD” MOTOR HAS (8) BRUSHES AND SPRINGS)

REPLACES NUMBERS,

11212106, AMJ-4603, IM0007, AMJ4603, 11.212.106

(APPLICATIONS) (SAVERY, HALDEX BARNES)

.256”/ 6.50mm Shaft slot

**24V* “HD“ (CCW) INSULATED GROUND SLOT SHAFT MOTOR (2.1 KW) (2200 RPM)*

“WMS” PART NUMBER, IM-0008

(THIS “HD” MOTOR HAS (8) BRUSHES AND SPRINGS)

REPLACES NUMBERS, 36681, IM0008, 11.212.169

36728, 36609, AMJ-5690, 11212169, 24006100, AMJ5690

(APPLICATIONS) (SAVERY, HALDEX BARNES)

.256”/ 6.50mm Shaft slot

**12V* “HD“ (CW) INSULATED GROUND SLOT SHAFT MOTOR (2.1 KW) (2000 RPM)*

“WMS” PART NUMBER, IM-0012

(THIS “HD” MOTOR HAS (8) BRUSHES AND SPRINGS)

REPLACES NUMBERS, 11212309, IM0012, AMJ5552

AMJ-55552, 200543913901, 543913901, 1239682, 9000425602

(APPLICATIONS)

(MONARCH, BERENDSEN, BUCHER)

4.5” DIAMETER ISKRA SLOT SHAFT MOTORS (12V & 24V)

24V (CW) SLOT SHAFT MOTOR WITH *“INSULATED GROUND” 2.2 KW (2600 RPM)*

“WMS” PART NUMBER, IM-0021

REPLACES NUMBERS,
543923812, IM0021, W-8260, 11.212.560, 102450-4-05
AMJ5127, 2750, C162051020, 200543923812, 200543924001

(APPLICATIONS)

(SPX, BUCHER, MONARCH, BERENDSEN, SMITH INDUSTRIES)

.256”/ 6.50mm Shaft slot

24V (CW) SLOT SHAFT MOTOR WITH *“INSULATED GROUND” 2.2 KW (2600 RPM)*

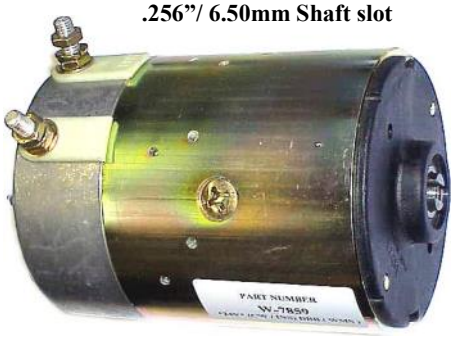
“WMS” PART NUMBER, IM-0030

REPLACES NUMBERS,
IM0030, AMJ4662, 1018201324, 11212619
W-7859, W-5659, 11.212.619, 102680-13-24, AMJ-4662

(APPLICATIONS)

(HALDEX, HYDRIS, SMITH INDUSTRIES)

.256”/ 6.50mm Shaft slot



Shaft is .130”/3.30mm past bearing

12V (CW) SLOT SHAFT MOTOR WITH *“INSULATED GROUND” 1.6KW (2600 RPM)*

“WMS” PART NUMBER, IM-0033

REPLACES NUMBERS,
D116A, W-7880, IM0033, AMJ5182, MUP6302, 1026803012
11.212.623, AMJ-5182, M1RX23HXXNNMDS, 102680-30-12

(APPLICATIONS)

(HALDEX, HYDRIS, SMITH INDUSTRIES)

.256”/ 6.50mm Shaft slot

Shaft is .130”/3.30mm past bearing

24V (CCW) SLOT SHAFT MOTOR WITH SWITCH *AND “INSULATED GROUND” 2.2 KW (1500 RPM)*

“WMS” PART NUMBER, IM-0048

REPLACES NUMBERS,
IM0048, 11.212.918, AMJ4708, Z-EMDC-2A-ACE-C

(APPLICATIONS)

(HALDEX, RELATED FLUID POWER)

4.5” DIAMETER ISKRA SLOT SHAFT MOTORS (12V & 24V)

.256”/ 6.50mm Shaft slot

Shaft is .130”/3.30mm past bearing

**12V* (CW) INSULATED SLOT SHAFT MOTOR 1.6KW (2600 RPM)*

“WMS” PART NUMBER, IM-0050

REPLACES NUMBERS, AMJ5265, AMJ-5669, 9000566912, IM0050, AMJ-5265, AMJ5641, 11.212.935, AMJ-5641, AMJ5669, MF4034

(APPLICATION)

(HIDROIRMA, WEBER, MONARCH HYDRAULICS BUCHER HYDRAULICS, PEDRO ROQET, SPX FLUID POWER)

.256”/ 6.50mm Shaft slot

Shaft is .130”/3.30mm past bearing

**24V* (CW) INSULATED SLOT SHAFT MOTOR 2.2KW (2800 RPM)*

“WMS” PART NUMBER, IM-0051

REPLACES NUMBERS, AMJ5266, IM0051, AMJ-5670 AMJ-5647, AMJ5642, 11.212.936, AMJ-5642, AMJ5670, MF4030

(APPLICATION)

(HIDROIRMA, WEBER, MONARCH HYDRAULICS BUCHER HYDRAULICS, PEDRO ROQET, SPX FLUID POWER)

.256”/ 6.50mm Shaft slot

**24V* “HD“ (CCW) INSULATED GROUND SLOT SHAFT MOTOR (2.2 KW) (4400 RPM)*

“WMS” PART NUMBER, IM-0137

REPLACES NUMBERS,

0136350014, W-8963B, 10960, AMJ-4750, 11.216.206, 2200976

(APPLICATION)

(CONCENTRIC, SAVERY, HALDEX BARNES)

.256”/ 6.50mm Shaft slot

**24V* “HD“ (CCW) INSULATED GROUND SLOT SHAFT MOTOR (2.2 KW) (2700 RPM)*

“WMS” PART NUMBER, IM-0145

REPLACES NUMBERS,

IM0145, 11.216.257, AMJ5730, 1423472, 49863

24007700, 24010000, 24010600, 24010900, 1419755, 1420269

(APPLICATIONS)

(BERENDSEN FLUID POWER, BREVINI FLUID POWER)

4.5” DIAMETER ISKRA SLOT SHAFT MOTORS (12V <> 24V <> 48V)

**12V* “HD“ (CCW) INSULATED GROUND SLOT SHAFT MOTOR 2.1 KW (1700 RPM)*

“WMS” PART NUMBER, IM-0159

(THIS “HD” MOTOR HAS (8) BRUSHES AND SPRINGS)

REPLACES NUMBERS, 11212108, IM0159, AMJ5667
11.212.108, 0136350013, 24006000, AMJ-5667

(APPLICATIONS) (HYDR-APP, SAVERY, HALDEX BARNES)

.256”/ 6.50mm Shaft slot

48V* (CCW) SLOT SHAFT MOTOR WITH *“INSULATED GROUND” 2.2 KW (3000 RPM)

“WMS” PART NUMBER, IM-0312

REPLACES NUMBERS,
11216787, IM0312, 11.216.787, AMJ5833, 2201126

(APPLICATIONS)
(HALDEX, CONCENTRIC)

.256”/ 6.50mm Shaft slot

12V* (CCW) SLOT SHAFT MOTOR WITH *“INSULATED GROUND” 1.6 KW (1800 RPM)

“WMS” PART NUMBER, IM-0320

REPLACES NUMBERS,
W-8240, IM0320, 11.218.033, AMJ4839, 18442, 11218033, 11.216.791

(APPLICATIONS)
(MONARCH, BUCHER HYDRAULICS)

.256”/ 6.50mm Shaft slot

**24V* “HD“ (CCW) INSULATED GROUND W/OLP SLOT SHAFT MOTOR (2.2 KW) (2750 RPM)*

“WMS” PART NUMBER, IM-0321

REPLACES NUMBERS,
08223, IM0321, AMJ4768, 11.218.035, AMJ4841, 8223

(APPLICATIONS)
(BUCHER FLUID POWER, MONARCH HYDRAULICS)

.256”/ 6.50mm Shaft slot

4.5” DIAMETER ISKRA SLOT SHAFT MOTORS (12V & 24V)

.256”/ 6.50mm Shaft slot
WITH OVERLOAD PROTECTION

12V (CW) SLOT SHAFT MOTOR WITH “OLP”
AND “INSULATED GROUND” 1.6 KW (2500 RPM)

“WMS” PART NUMBER, IM-0352

REPLACES NUMBERS
11.216.902, W-8235A, IM0352, AMJ5862

3254510, 3063833, 9-824233, 3443017

(APPLICATIONS)
(SAVERY, HYDAC FLUID POWER, MONTEC, FLUID TECHNIK)

.256”/ 6.50mm Shaft slot
WITH OVERLOAD PROTECTION

24V (CW) SLOT SHAFT MOTOR W/SW & “OLP”
AND “INSULATED GROUND” 2.2 KW (2600 RPM)

“WMS” PART NUMBER, IM-0353

REPLACES NUMBERS
11.216.009, W-8260A, IM0353, AMJ5863

11.216.904, 8106-14658, AMJ5281,

(APPLICATIONS)
(SAVERY, HYDAC FLUID POWER, MONTEC, FLUID TECHNIK)

5” DIAMETER “HD” ISKRA TANG & SLOT SHAFT MOTORS (12V <> 24V)

.256”/ 6.50mm Shaft slot

12V 5” DIAMETER (CW) SLOT SHAFT MOTOR WITH INSULATED GROUND 2.5 KW (2800 RPM)*

“WMS” PART NUMBER, 11.212.394

REPLACES,
11212394, W-5394, AMK5640, AMK-5640

(APPLICATIONS)
(HYDRA, SAVERY, SPX, SMITH INDUSTRIES)
(This is a 12V version of the IM-0016)

.256”/ 6.50mm Shaft slot

24V 5” DIAMETER (CW) SLOT SHAFT MOTOR WITH INSULATED GROUND 3 KW (3300 RPM)*

“WMS” PART NUMBER, IM-0016

REPLACES,
102020-24, W-5393, 11.212.393, AMK5639, 8106-1301

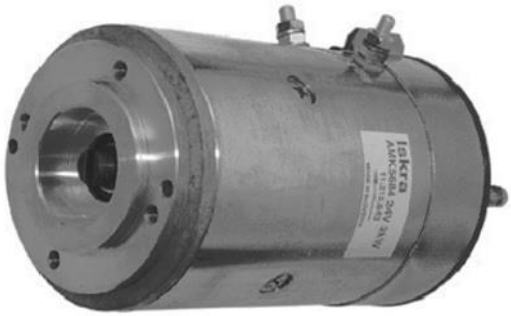
(APPLICATIONS)
(HYDRA, SAVERY, SPX, SMITH INDUSTRIES)
(This is a 24V version of the 11.212.394)

24V 5” DIA. DBB HD (CW) TANG SHAFT MOTOR WITH INSULATED GROUND 3 KW (2600 RPM)*

“WMS” PART NUMBER, IM-0044

REPLACES NUMBERS,
IM0044, ISK-005, 11.212.829, AMK5682
1517220530, C162099000, 9000568224, 4200000064

(APPLICATION)
(BROC OIL SYSTEM, BOSCH
MARIOTTI, HYTOS, EMS, FLUITRONICS)
(SPECIAL BOSCH STYLE DRIVE END FRAME)



.256”/ 6.50mm Shaft slot

24V 5” DIAMETER (CCW) SLOT SHAFT MOTOR WITH INSULATED GROUND 3 KW (2600 RPM)*

“WMS” PART NUMBER, IM-0045

REPLACES NUMBERS,
IM0045, 11.212.843, AMK5684, 2201088
107264, 111895, 47044902, 47044910, AMK-5684

(APPLICATIONS)
(HALDEX, HPI, CONCENTRIC)

5” DIAMETER “HD” ISKRA AMPLEX SHAFT MOTORS (12V <> 24V <> 48V)

**24V* (CW) TANG SHA/MOTOR 3 KW (1600 RPM)*

“WMS” PART NUMBER, IM-0077

REPLACES NUMBERS,
IM0077, AMP-4632, 11.214.255, 0135501255
E190011, 0136501010, 0136501032, 0136501055

(APPLICATION) (IVECO, SAMAG, BOSCH)

(SPECIAL BOSCH STYLE DRIVE END FRAME)

**24V* (CW) TANG SHA/MOTOR 3 KW (2600 RPM)*

“WMS” PART NUMBER, IM-0181

REPLACES NUMBERS,
11.216.319, AMK5519, 1240245, 1517220524

(APPLICATION)
(BERENDSEN FLUID POWER, BOSCH)

(SPECIAL BOSCH STYLE DRIVE END FRAME)

***24V* 5” DIAMETER (CW)** *TANG SHAFT MOTOR WITH INSULATED GROUND 3 KW (2600 RPM)*

“WMS” PART NUMBER, IM-0184

REPLACES NUMBERS, 200763320060, 11.212.138,
AMK5607, IM0184, 543924806, 200543924806, 11212138

(APPLICATIONS)
(BUCHER HYD, MONARCH, HIDROIRMA)

(DE Frame spec’s)
Center hub large diameter ring is 1.970”/ 50.0mm
Center hub small diameter ring is 1.652”/ 41.96mm

***48V* 5” DIAMETER (CW)** *TANG SHAFT MOTOR WITH INSULATED GROUND 3 KW (2500 RPM)*

“WMS” PART NUMBER, IM-0230

REPLACES NUMBERS,
AMK-5662, 11216507, 11.212.581, AMK5662, AMK5532
1547220516, 11.216.507, AMK-5532, 11212581, IM0230

(APPLICATIONS)
(BOSCH, BERENDSEN HYDRAULICS)

5” DIAMETER “HD” ISKRA 24V <> SLOT AND AMEPLEX SHAFT MOTORS

WITH OVERLOAD PROTECTION

.256”/ 6.50mm Shaft slot

**24V* (CW) INS/SLOT SHAFT MOTOR W/OLP*
THIS MOTOR IS 5” DIAMETER 3 KW (3300 RPM)

“WMS” PART NUMBER, IM-0241

REPLACES NUMBERS, AMK5505, AMK5534, 3123175
9560482, 11.216.135, 11.216.514, IM-0378, 3063357, 9-560482

(APPLICATION) (MONTEC, HYDAC FLUID TEC)

THE .256 SHAFT SLOT AND THE BEARING ARE “EVEN”
(For a motor “without” overload protection use IM-0378)

WITH OVERLOAD PROTECTION

24V* 5” DIA. DBB HD (CW) *AMPLEX SHAFT MOTOR WITH INSULATED GROUND & “OLP” 3 KW (3100 RPM)

“WMS” PART NUMBER, IM-0251

REPLACES NUMBERS,
11216146, AMK4638, IM0251, 11.216.146, AMK-4638

(APPLICATIONS) PARKER HANNIFIN
SAVERY, SIDES, CONCENTRIC, HALDEX BARNES)

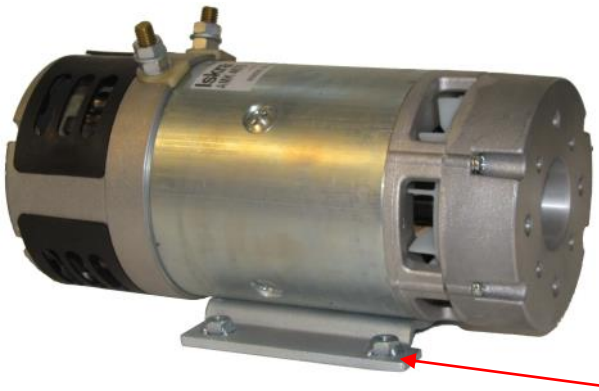
(FOR A MOTOR WITHOUT “OLP” USE NUMBER IM-0284)

24V* 5” DIA. DBB HD (CW) *AMPLEX SHAFT MOTOR WITH INSULATED GROUND 3 KW (3100 RPM)

“WMS” PART NUMBER, IM-0284

REPLACES NUMBERS,
IM0284, 715141, AMK-4635, 11.216.130, 2201054

(APPLICATIONS)
(SAVERY, PARKER HANNIFIN,
CONCENTRIC, HALDEX BARNES)



24V* 5” DIA. DBB HD (CW) *AMPLEX SHAFT MOTOR WITH INSULATED GROUND 3 KW (3100 RPM)

“WMS” PART NUMBER, IM-0310

REPLACES NUMBERS,
AMK4679, 715141, AMK-4635
11.216.788, IM310, 11.216.667, 2201122

(APPLICATIONS)

(SAVERY, PARKER HANNIFIN
CONCENTRIC, HALDEX BARNES)

(IM-0310 HAS THREADED WELD NUTS ON BASE)

5” DIAMETER “HD” ISKRA 24V <> SLOT AND AMEPLEX SHAFT MOTORS

**24V* (CW) INS/SLOT SHAFT MOTOR*
THIS MOTOR IS 5” DIAMETER 3 KW (3300 RPM)

“WMS” PART NUMBER, IM-0378

REPLACES NUMBERS,
AMK5505, IM0378, 11.216.135, 3063357, 9-560482

(APPLICATION) (MONTEC, HYDAC FLUID TEC)

THE .256 SHAFT SLOT AND THE BEARING ARE “EVEN”
(For a motor “with” overload protection use IM-0241)

***24V* (CW) HD (5” DIA.) “DBB” INS/GRD MOTOR**

“WMS” PART NUMBER, W-4025

REPLACES NUMBERS,
2201107, 50020501933, AMK4676, 500205019335, W4025

(APPLICATIONS)
HALDEX, BUCHER AND MONARCH HYDRAULICS

(MOTOR HAS A .256”/6.50mm SLOT SHAFT ARMATURE)

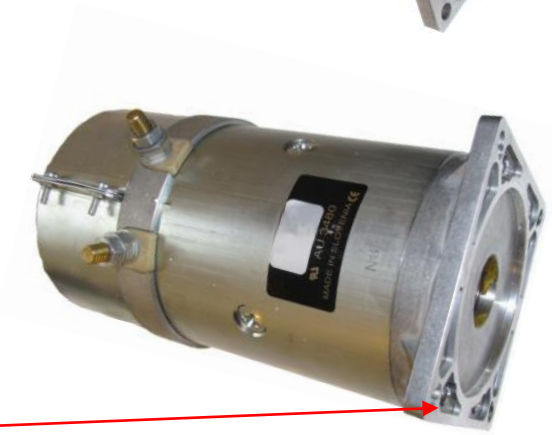
***24V* (CW) HD (5” DIA.) “DBB” INS/GRD MOTOR**

“WMS” PART NUMBER, W-4028

REPLACES NUMBERS,
2201149, W4028

(APPLICATIONS)
HALDEX, CONCENTRIC

(MOTOR HAS A .256”/6.50mm SLOT SHAFT ARMATURE & HAS 4 MODIFIED MOUNT HOLES ON THE DRIVE END FRAME)



24V* 5” DIA. DBB HD (CW) “*SLOT SHAFT” MOTOR
WITH INSULATED GROUND 3 KW (3100 RPM)

“WMS” PART NUMBER, IM-0398

REPLACES NUMBERS,
AMK-4671, AMK-4672, 11.216.992
IM0398, 2201142, 11.216.709, 11.216.713

(APPLICATIONS)
(SAVERY, PARKER HANNIFIN,
CONCENTRIC, HESSELMAN, HALDEX BARNES)
(MOTOR HAS THE TWO BOLT HESSELMAN DE MOUNT)

3.7” DIAMETER ISKRA & WMS SLOT SHAFT MOTORS (12V & 24V)

.256”/ 6.50mm Shaft slot

12V (F & R) SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-3522

REPLACES NUMBERS,
W3522, MZE4001, 39200522

(APPLICATIONS) MTE HYDRAULICS

(The W-3522 use’s a 6902RS bearing at the slot end)

(For a 3.7” diameter F&R motor with a 202RS bearing use MZE4002)

.256”/ 6.50mm Shaft slot

24V “CCW” SLOT SHAFT MOTOR WITH *“INSULATED” GROUND*

“WMS” PART NUMBER, W-3533

REPLACES NUMBERS,
W3532, S200-431708031, S200431, S200*431, S200-431

(APPLICATIONS)
(GENIE LIFTS, MONARCH HYDRAULICS)

.256”/ 6.50mm Shaft slot

12V “CCW” “INS” SLOT SHAFT MOTOR

“WMS” PART NUMBER, W-3584

REPLACES NUMBERS,
W3584, AMF5602, AMF-5602

(APPLICATIONS)
(MTE & MONARCH HYDRAULICS)

24V (CCW) “INS” SLOT SHAFT MOTOR

“WMS” PART NUMBER, IM-0025

REPLACES NUMBERS,
11212599, W-3533, 39200424C8, IM0025, AMF-4615, AMF-4634, 11.212.456, 11.212.599, 39200424

(APPLICATIONS)
(GENIE LIFTS, MONARCH, MTE HYDRAULICS)

3.7” DIAMETER ISKRA .256”/6.50mm SLOT SHAFT MOTORS (12V & 24V)

***12V* (CCW) SLOT SHAFT MOTOR**

“WMS” PART NUMBER, IM-0216

REPLACES NUMBERS,

W-3589, 11216493, 8189, AMF4665
IM0216, AMF-4665, 08189, 11.216.493

(APPLICATIONS)

(BUCHER, MONARCH, HYDRAULICS)

***24V* (CCW) “INS” SLOT SHAFT MOTOR**

“WMS” PART NUMBER, IM-0217

REPLACES NUMBERS,

W-3531, 11216494, AMF5608, 08031, AMF-5608, IM0217, 11.216.494

(APPLICATIONS)

(BUCHER, MONARCH HYDRAULICS)

***24V* (CW) “INS” SLOT SHAFT MOTOR**

“WMS” PART NUMBER, IM-0242

REPLACES NUMBERS,

11216522, AMF-5609, 3173011, IM0242, AMF5609, 11.216.522

(APPLICATIONS)

(HYDAC FLUIDTECHNIK)

***12V* (CCW) “INS” SLOT SHAFT MOTOR**

“WMS” PART NUMBER, IM-0264

REPLACES NUMBERS,

11216481, AMF-5606, IM0264, AMF5606, 11.216.481

(APPLICATIONS)

(OLEODINAMICA REGGIANA)

4.5” DIAMETER ISKRA & WMS SHAFT MOTORS (12V & 24V)

**24V* (F & R) INS/GRD SHAFT MOTOR*
W/OLP & WITH (4) TERMINAL POSTS 2KW

“WMS” PART NUMBER, IM-0226

REPLACES NUMBERS,

AMJ4506, IM0226, 11.212.878, J4706, 11.216.503, 60000192

(APPLICATION) LEWMAR MARINE

(SHAFT DIAMETER IS 0.550”/ 13.97mm w/a 3/16 key slot)

(SHAFT IS 1.375”/ 34.93mm LONG FROM THE BEARING)

***12V* “*BI-DIRECTIONAL*” (3 POST) WINCH MOTOR**
WITH (20) “ *TWENTY SPLINE SHAFT* ”

“WMS” PART NUMBER, IM-0146

REPLACES NUMBERS,

11.212.449, W-7935, AMJ-4635, IM0146, 11.212.920
IM0146, 11.216.137, AMJ4743, AMJ4761, F006MM0601, AMJ-4743
7682, AMJ4709, W-8923, W-7925, AMJ-4761, 11.216.273, 11.216.275

(APPLICATIONS) (WARN & SUPERWINCH) (3 HP)

(FOR A “HD” 6 HP MOTOR USE NUMBER W-7608)

***24V* “*BI-DIRECTIONAL*” (3 POST) WINCH MOTOR**
WITH (20) “ *TWENTY SPLINE SHAFT* ”

“WMS” PART NUMBER, IM-0147

REPLACES NUMBERS,

AMJ-4762, IM0147, 11.212.450, 11.216.274
AMJ4636, 11.212.450, AMJ-4636, AMJ4762

(APPLICATIONS) (WARN & SUPERWINCH) (3.5 HP)

(FOR A “HD” 5 HP MOTOR USE “WMS” NUMBER W-7621)

Field frame is 7” long

***12V* *(BI-DIRECTIONAL)* (3 POST) WINCH MOTOR**
(20) SPLINE ARMATURE SHAFT (“DBB” 6 HP)

“WMS” PART NUMBER, W-7608

EXTRA HEAVY DUTY REPLACEMENT FOR MOTOR NUMBERS

W7608, W-8923, W-8923D, W-7623, 7536, 15877, 226626, 26629
D-2000, M-1900, 458058, 11212449, AMJ-4635, MUQ6205S

(APPLICATIONS) (SUPERWINCH HUSKY SERIES)
(ARCO MARINE, WARN INDUSTRIES, WARN WINCH’S)
(SPECIAL PARALLEL FIELD COILS FOR POWER)

4.5" DIAMETER ISKRA & WMS SLOT SHAFT MOTORS (12V & 24V)

**12V* (F & R) SHAFT MOTOR WITH "OLP" 0.7KW*

"WMS" PART NUMBER, IM-0178

REPLACES NUMBERS, 60000189, W-7942
11216402, AMJ4789, IM0178, W7942, 11.216.402, AMJ-4789

(APPLICATIONS) (NI VG, LEWMAR MARINE)
(SHAFT DIAMETER IS 0.550"/ 13.97mm w/a 3/16 key slot)
(SHAFT IS 1.375"/ 34.93mm LONG FROM THE BEARING)

**24V* (CW) INSULATED SLOT SHAFT MOTOR W/OLP 2.2 KW*

"WMS" PART NUMBER, IM-0055

REPLACES NUMBERS, 11.212.958
W-5637, 11212958, 24MB21TWA, IM-0055
IM0055, AMJ5273, 0136355081, 24MB22TWA, AMJ-5273
(APPLICATION)
(WALTCO, OIL SISTEM, HALDEX BARNES, HESSELMAN)
SPEC / DE FRAME & "NARROW" ARMATURE SLOT, (.160"/ 4.06mm WIDE)

WITH OVERLOAD PROTECTION

(2600 RPM)

**12V* (CW) INSULATED SLOT SHAFT MOTOR W/OLP 1.5 KW*

"WMS" PART NUMBER, IM-0173

REPLACES NUMBERS, IM0054, W-5633, IM-0054, IM0173,
11.216.394, 11216394, AMJ5756, 12MB12TWA, AMJ-5756
(APPLICATION)
(WALTCO, OIL SISTEM, HALDEX BARNES, HESSELMAN)
SPEC / DE FRAME & "NARROW" ARMATURE SLOT, (.160"/ 4.06mm WIDE)

(2300 RPM)

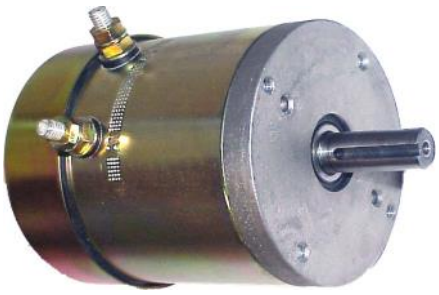
***12V * *F & R* (2) WIRE "TANG" SHAFT MOTOR**

"WMS" PART NUMBER, W-410497

REPLACES NUMBERS,
108AE32, E186696, 414058, 410497, PD50F1001, 635341

(APPLICATIONS) (PARKER OIL/DYNE)
(Width of the tang shaft is .155"/3.94mm)
(Shaft tang length is .300"/7.62mm long)
(The 10/32 thru bolt mounting centers are 2.5"/63.5mm)

4.5” DIAMETER ISKRA & WMS SHAFT & SLOT SHAFT MOTORS (12V & 24V)



**12V / 24V * PM 4.5” Diameter motor w/a 3/16 slot shaft*

“ISKRA” PART NUMBER, AMG1626

REPLACES NUMBER, AM-G1626

(VERY GOOD 1 HP UNIVERSAL MOTOR @ 12 VOLTS)
(VERY GOOD 1.5 HP UNIVERSAL MOTOR @ 24 VOLTS)
(HAS A CE O-RING TO HELP KEEP WATER OUT)

NO-LOAD RPM‘S (12V RPM APPROX. 2450) <> (24V RPM APPROX. 4750)

(SHAFT IS .625 DIAMETER AND 1.5”/ 38.1mm LONG W/BAR KEY SLOT)

Has two oval recesses in face of DE

.256”/ 6.50mm Shaft slot

* 12V* (CW / INS) DBB GROUND (2) POST PLOW MOTOR
ISKRA MOTOR FOR MEYERS QUICK LIFT STYLE PLOWS

“WMS” PART NUMBER, W-5981

REPLACES NUMBERS, AMJ-4739, 11.212.981
11212981, AMJ4739, W-5692, W-5698, W5981, 15829, 15841
(APPLICATION) (SPX, FENNER FLUID POWER PUMPS)

(FOR THE MEYER E-57, E-57-H, E-60-H Etc.)

12V “CCW” *MOTOR WITH .591 DIA. SHAFT*

“WMS” PART NUMBER, W-8013C

REPLACES NUMBERS, W8013C, 08013, M326-0189
W-8013B, M-3260189, AMJ-4735, 11.216.088, 3260189

(APPLICATIONS) MONARCH PUMPS

(.256”/ 6.50mm Shaft slot is .750”/ 19.05mm out from the bearing race)

(The switch holes are to the left of the terminal post)

12V “CCW” “HD” SLOT SHAFT MOTOR
WITH *“INSULATED GROUND”*

“WMS” PART NUMBER, 11.216.249

REPLACES NUMBERS,
W-8249, AMJ4755, 11216249, AMJ-4755, 11.216.249

(APPLICATIONS)

(HALDEX, HYDRIS, SPX FLUID POWER, MONARCH)

(.256”/ 6.50mm Shaft slot is .750”/ 19.05mm out from the bearing race)

(CAN USE “WMS” NUMBER W-8249)

ISKRA ALTERNATORS (12V & 24V)

12V 33A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-0096

REPLACES NUMBERS, 0120300514, 0120300552, 0120339531
1177481, 11.201.096, 14948, AAG1311, AL901X, AL905X

(APPLICATIONS)
DEUTZ, FENDT, BOSCH, CASE INT., IHC. ETC.

12V 65A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-0226

REPLACES NUMBERS,
0120488185, 0120488209, 11.201.226,

(APPLICATIONS)
MARSHALL, DEUTZ, FENDT, LINDE, ETC.

12V 60A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-0292

REPLACES NUMBERS,
1180660, AAK2301, A13N165, 2541133, 11.201.292

(APPLICATIONS) DEUTZ AG., ETC.

12V 65A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-0595

REPLACES NUMBERS, 12146, 11.201.935
AL9959X, 0120488205, 0120488293, 0120489475, 11.201.595

(APPLICATIONS)
CASE INTERNATIONAL, IHC. ETC.

ISKRA ALTERNATORS (12V & 24V)

12V 70A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-0728

REPLACES NUMBERS,
IA0396, IA0810, AAK4574, AAK4598, 11.201.728,

(APPLICATIONS)
ROVER, MASSEY FERGUSON

24V 140A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-0757

REPLACES NUMBERS,
0120689520, 11.201.757, 12377, AAT1302

(APPLICATIONS)
COACHES & BUSES

24V 50A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-0759

REPLACES NUMBERS, AAK1387, AAK3336, 11.201.759
0120488206, 0120489481, 11.201.941, AL9940X, AL9948X

(APPLICATIONS)
KOMATSU, JOHN DEERE, CASE INTERNATIONAL

12V 70A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-0811

REPLACES NUMBERS, LRA653, 11.201.811, AAK4567
11.201.706, 24145D, 24161, 24198, 24219, 24228, 24241

(APPLICATIONS) MASSEY FERGUSON, ROVER, PERKINS

ISKRA ALTERNATORS (12V & 24V)

12V 95A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-0875

REPLACES, 9X0341, 12145, AL9909X, 9120060041, TY6750
0120484011, 0120484018, 0120484026, 11.201.727, AAK5165

(APPLICATIONS)
McCORMICK, JOHN DEERE, CASE INTERNATIONAL

24V 140A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-0902

REPLACES NUMBERS, AAT1310, 9519360
0986034610, AAT-1310, 11.201.902, 0120689543, 0120689548

(APPLICATIONS)
SCANIA, COACHES & BUSES

12V 150A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-1058

REPLACES NUMBERS,
90-15-6169, 0120468028, 11.203.124, 12131, AAK5138

(APPLICATIONS)
DELCO REMY, CASE INTERNATIONAL

12V 120A ISKRA ALTERNATOR

"WMS" PART NUMBER, IA-1095

REPLACES NUMBERS,
11203204, IA1095, AAN-5156, 11.203.204, 0123512500
8EL737739001, 0986046030, AL-111676, AL-114093

(APPLICATIONS) JOHN DEERE

(DUST PROOF)

ISKRA STARTER MOTORS (12V & 24V)

24V (4 KW) ISKRA STARTER W/SOLENOID

."WMS" PART NUMBER, IS-0030

REPLACES NUMBERS,
94955E, D11E149, 11.130.672, AZJ-3221, 0001364101

(APPLICATIONS) DEUTZ AG., TAM

12V (3 KW) ISKRA STARTER W/SOLENOID

."WMS" PART NUMBER, IS-0403

REPLACES NUMBERS, MT68AB, MT68AC, SR914X
0001359021, 0001359102, 0001367028, 0001367082, 11.130.403

(APPLICATIONS)

FIAT, NEW HOLLAND, FIAT ALLIS, IVECO

12V (0.9 KW) ISKRA STARTER W/SOLENOID

."WMS" PART NUMBER, IS-0483

REPLACES NUMBERS, 16530,
AZE-1210, SR52X, IS0483, 11.130.963, 0001208223

(APPLICATIONS)

FORD AUTOMOTIVE AND FORD INDUSTRIAL

12V (2.7 KW) ISKRA STARTER W/SOLENOID

."WMS" PART NUMBER, IS-0500

REPLACES NUMBERS, LRS838, MT71D, MT71DA, MT71DB
4856055, 0986011060, 0986011061, AZJ3137, 11.130.500, 0001362062

(APPLICATIONS)

BENFRA, FIAT, ALFA ROMEO, FIAT ALLIS, IVECO

12V (2.8 KW) ISKRA STARTER W/SOLENOID

."WMS" PART NUMBER, IS-0526

REPLACES NUMBERS, 27518, 27520, 27570, 27588
0986018151, 3551773M91, 63296357, LRS968, 11.130.526

(APPLICATIONS)

PERKINS, MASSY FERGUSON, HY-MAC, CASE INT. etc.

(For a HD 4.2 KW use number IS-1160)

ISKRA STARTER MOTORS (12V & 24V)

12V (3 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-0553

REPLACES NUMBERS,
9000083071, SR-927X, IS0553, AZJ-3171, 11.130.553

(APPLICATIONS)

MERCEDES BENZ

12V (2.7 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-0565

REPLACES NUMBERS, SR-931X
17318, 120-550, AZJ3177, 0001362700, 0986015420, 11.130.565

(APPLICATIONS)

DEUTZ AG.

12V (3.1 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-0569

REPLACES, AR70436, SR901X, 4000, 4960, 1107871, 1107863
0001359016, 0001359090, 0001362312, 0001362316, 0001369022
11.130.533, RE19187, IS-0762, IS-0553, TY6620, TY6702, TY6720

(APPLICATIONS)
RENAULT AG, JOHN DEERE

12V (2.7 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-0624

REPLACES NUMBERS, 16608, 26339, 26395, 27528,
27569, 26137, 26147, 26364, 11.130.579, D9NN11000AA

(APPLICATIONS)

FORD NEW HOLLAND, FORD INDUSTRIAL

(For a HD 4.2 KW use (G/R) number IS-1158)

ISKRA STARTER MOTORS (12V & 24V)

12V (4 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-0663

REPLACES NUMBERS,
11.130.860, AZJ3297, 028000-3290, 028000-3291, 028000-3292
16635, 17398, 228000-8080, 228000-8081, 128000-0770,
128000-0771, 128000-0772, 28100-1670, 28100-1670A, 28100-1671A,
1113672, 1113402

(APPLICATIONS) JOHN DEERE

12V (2.7 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-0665

REPLACES NUMBERS,
SR-587X, 11.130.665, AZJ-3217, 0001362321
SR-9938X, R39341, SA739A, M3T90071
LRS-706, 63227564, S-1379, JS-1012, 8EA737266001

(APPLICATIONS) LEYLAND, CASE & FORD

24V (4 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-0687

REPLACES NUMBERS,
AZJ3231, 11.130.687, AZJ-3231,
0001360061, 0001368074, LRS-925, 8EA726139-001
420718, 465604, 466772, 4881598, 5001784, CS-391, 5003009

(APPLICATIONS) STEYR, VOLVO

24V (4 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-0745

REPLACES NUMBERS,
AZJ3350, AZJ3426, AZJ3338, AZJ3265, 11.131.388, 228000-7411

(APPLICATIONS) JOHN DEERE

(THIS IS A “24V” VERSION OF THE IS-0663)

ISKRA STARTER MOTORS (12V & 24V)

12V (1.7 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-0773

REPLACES NUMBERS,
0001110066, 0001110067, 0001110107, 0001110128, 11.130.911

(APPLICATIONS)
AUDI, VOLKSWAGEN

12V (3 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-0841

REPLACES NUMBERS,
11.130.551, 11.130.841, SR-926X, AZJ-3169,
AZF-4514, IS-0551, 0001362311, 0001362313,
MT68T, MT74G, 0001358046, 0001362016, 0001362034,
0001362091, 323-448, 0001230006, 10465055, 10465319, 0986019020

(APPLICATIONS)
CASE, IHC, LUCAS, DEUTZ AG., IVECO, BOSCH INDUSTRIAL

12V (3.1 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-1027

REPLACES NUMBERS, TY6719, TY6688, TY24438
028000-8400, 028000-8401, 028000-8402, 028000-8403, 028000-8404
AEZ4603, AEZ4620, 11.131.063, 11.131.221, 228000-6470, 228000-6471

(APPLICATIONS)
ATLAS, JOHN DEERE

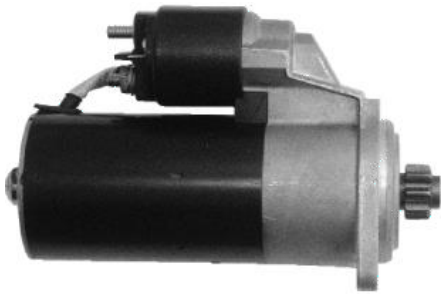
12V (2.7 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-1033

REPLACES, 0001362303, 0001362304
IS1033, 0001367008, 0986017970, 11.130.736, 11.131.140
0001359060, 12411333980, 504761011053, AZJ3258, AZJ3386

(APPLICATIONS)
BMW & BOSCH INDUSTRIAL

ISKRA STARTER MOTORS (12V & 24V)



***12V* (2 KW) ISKRA STARTER W/SOLENOID**

."WMS" PART NUMBER, IS-1045

REPLACES NUMBERS, 63221405, 11.131.157,
0986018070, AZE-2636, 0001109029, 0001110033,
(APPLICATIONS) ACME, FERRARI, LOMBARDINI, ETC.
(THIS STARTER HAS A (9) TOOTH DRIVE GEAR)

***12V* (2.7 KW) ISKRA STARTER W/SOLENOID**

."WMS" PART NUMBER, IS-1063

REPLACES, 1113282, 1903103M91, 1903117M91
1113281, 11.130.794, 11.131.375, 228000-6400, 0001362324, 4963
(APPLICATIONS)
BOBCAT, CLARK, JOHN DEERE, MASSEY FERGUSON

***12V* (2.8 KW) ISKRA STARTER W/SOLENOID**

."WMS" PART NUMBER, IS-1072

REPLACES NUMBERS, 11.131.109, 0001218172
AZE-4535, 0986017430, 0986018290, 1180180, 0001223002
(APPLICATIONS) DEUTZ AG.
(THIS STARTER HAS A (11) TOOTH DRIVE GEAR)

***12V* (2.8 KW) ISKRA STARTER W/SOLENOID**

."WMS" PART NUMBER, IS-1073

REPLACES NUMBERS,
1181751, AZE-4566, 11.131.223, 0001223016
(APPLICATIONS) DEUTZ AG.
(THIS STARTER HAS A (9) TOOTH DRIVE GEAR)

ISKRA STARTER MOTORS (12V & 24V)

24V (6.5 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-1078

REPLACES NUMBERS, LRS-1907, M9T80472, M9T80473
AZG-4605, 0001371019, 0001372001, 0986017320, 11.131.016
0041518801, 0041519001, 0041519401, 0041519501, AZG4605

(APPLICATIONS)

BOSCH, HELLA, MERCEDES-BENZ

12V (3 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-1090

REPLACES NUMBERS,
AZE-4557, 11.131.198, 0001362319, 0001367079
10461497, 10465026, 10465043, 201-28106, M3T90072

(APPLICATIONS)
OTTAWA, CUMMINS, FORD, KENWORTH

12V (2 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-1101

REPLACES NUMBERS,
19960488, 19960489, AZE2155, 11.131.267
11121267, 112534, B157761, 500227532, 71435600, AZE-2155

(APPLICATIONS)
BOSCH, CARGO, JUNGHEINRICH, STEINBOCK

12V (4.2 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-1158

REPLACES, AZF-4115, 11.131.430, IS-1016
182-450, AZF-4146, IS0579, 11.131.573, IS1158, IS-0624

(APPLICATIONS)

CASE INT., DAVID BROWN, FORD NEW HOLLAND etc.

ISKRA STARTER MOTORS (12V & 24V)

12V (4.2 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-1160

REPLACES NUMBERS, AZJ-3151, IS0526, 11.131.575
IS-0526, 11.130.526, MSN-191, AZF-4148, 11131575, 27588

(APPLICATIONS)

HY-MAC, CASE INT., BEDFORD, PERKINS, etc.

24V (5.4 KW) ISKRA STARTER MOTOR

.“WMS” PART NUMBER, IS-9003

REPLACES NUMBERS,
22618, 1163558, AZK-5163, 11.139.003, 0001410087
1174637, IM329, IS9003, IM333, IM532, 0001416032, 0986011480

(APPLICATIONS)

O & K, DEUTZ

(HAS A 11 TOOTH DRIVE GEAR)

24V (6.6 KW) ISKRA STARTER MOTOR

.“WMS” PART NUMBER, IS-9042

REPLACES NUMBERS,
AZK-5408, IS9042, 11.139.048, 0001417002
IM602, 22702, 006000, R22-06, 20401244, 4778060

(APPLICATIONS)

MERCEDES-BENZ

(HAS A 11 TOOTH DRIVE GEAR)

24V (5.4 KW) ISKRA STARTER MOTOR

.“WMS” PART NUMBER, IS-9112

REPLACES NUMBERS, AZK5474, 11.139.125
0001416070, IS9112, IM570, 11031126, AZK-5474

(APPLICATIONS) AVF, VOLVO

(HAS A 11 TOOTH DRIVE GEAR)

(THIS STARTER MOTOR IS “OIL SEALED”)

ISKRA STARTER MOTORS (12V & 24V)

24V (5.4 KW) ISKRA STARTER MOTOR

.“WMS” PART NUMBER, IS-9113

REPLACES NUMBERS,
IM571, AZK-5475, IS9113, 11.139.126, 0001416071

(APPLICATIONS) LIEBHERR

(HAS A 11 TOOTH DRIVE GEAR)

24V (6.2 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-9144

REPLACES NUMBERS,
AZJ-3440, 11.139.160, 11.139.160C, 0001372006

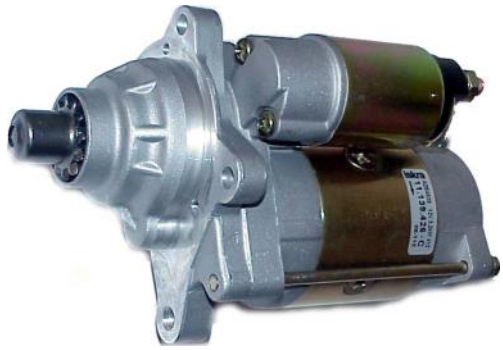
(APPLICATIONS)

MERCEDES-BENZ

12V (3.2 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-9420

REPLACES NUMBERS,
11.139.426, 6670, IS9420, AZE-4639, 113703, SA931, 6C2T11000AA, 6C2T11002AA, SR7586X, 3C3U11000AB, IS-9420C, 906-670, SA-904, 3C3U11000AC
(APPLICATIONS) FORD DIESEL ENGINES



12V (2 KW) ISKRA STARTER W/SOLENOID

.“WMS” PART NUMBER, IS-9428

REPLACES NUMBERS,
0001109036, 0001109014, AZE-2206, 11.139.435, LRT00134, 0001109250, 0001218162, 0001218760

(APPLICATIONS) MERCEDES-BENZ

** *NEW AMETEK / PRESTOLITE DESIGN* **

THESE GENERATORS ARE "DOUBLE BALL BEARING"

FOR "ALL" GOODALL STARTING UNITS

PART NUMBER, GKR6105A

REPLACES NUMBERS, GKR6105, GKR-6104S, GKR6104A
GKR6101, GKR6104, GKR7101, 10626, W-4663, 45-734, GKR-6101, GKR-6104A
79-373, GKR-6104, GKR-7101, GKR-7101A, GKR-7101B, 79373, GKR-7101S, 45-374, 45-376

(APPLICATIONS) (GOODALL STARTING UNIT GENERATORS)
(REDEVCO PRODUCTS, GOODALL)

THESE "12 VOLT" GENERATORS ARE RATED AS 6 VOLT <> 90 + AMPS
USED ON THE GOODALL STARTING UNITS IN SETS OF
TWO OR FOUR WHICH PRODUCE 180 AMPS + FOR JUMP STARTING

(These are (3) terminal post motor/generators with a "insulated" armature terminal post <> a "insulated" field terminal post <> and a "grounded" brush terminal post)

(The groove cut into the field frame identifies this as a GKR6105)

This 1/4X20 Positive armature terminal post is "insulated" from the field frame

****
Generator components
****
WB-1180 = (2) with posts
****
Brush holder = MDL1064AD
****
Armature number = WA-6105N
****
Pulley = WP-34719
****
With ball bearing CE frame
****

This 10X32 field coil terminal post is "insulated" from the field frame

This 1/4X20 ground armature terminal post is "grounded" to the field frame

NEW *12V* 28MT STARTER MOTOR W/SOL.

REPLACES NUMBERS,
323-440, 140-927, 6575, 1113279, 1113280
1107527, 1107567, 1107581, 1107587, 1109272
140-834, 140-834A, 1998334, 1998394

"WMS" PART NUMBER W-6575N

HAS 12 TOOTH DRIVE

NEW *12V* 10MT STARTER MOTOR W/SOL.

REPLACES NUMBERS, 3508, 3510, 3510M

"WMS" PART NUMBER W-3510MN

(APPLICATIONS) GENERAL MOTORS PRODUCTS

12V (CW) STARTING MOTOR

"WMS" PART NUMBER, MDY7048NR

REPLACES NUMBERS, 46-2294, MDY-7048, MDY-7048A

(APPLICATIONS) (CHRIS-CRAFT & VOLVO PENTA MARINE)

(CW ROTATION WITH A 9 TOOTH GEAR)

**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***

12V (CCW) STARTING MOTOR

"WMS" PART NUMBER, MDY7049NR

REPLACES NUMBERS, 46-2324, MDY-7049, MDY-7049S

(APPLICATIONS) (CHRIS-CRAFT & VOLVO PENTA MARINE)

(CCW ROTATION WITH A 9 TOOTH GEAR)

**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***

12V (CW) DELCO STYLE STARTER W/SOL.

"WMS" PART NUMBER, W-4150

REPLACES NUMBERS,
10455357, 1107655, 1107681, 1109446, 1998313, 34-1420
35-1420, 140-714, 140-714D, 1934751, 44-0362, 44-0436
48-0436, 48-4360, 5300846, 7520956, 752095600, 7520956-00, 8300846-05

APPLICATIONS,

IHC ENGINES IN MANY MISCELLANEOUS APPLICATIONS

VERY POPULAR *12V* BOAT TILT TRIM MOTOR

"WMS" PART NUMBER W-4256

REPLACES NUMBERS, W4256, 40-393, 26204A,
393988, 40-416, 430-20004, 982058, 982706, EVD-4001, EVD-4002

(APPLICATIONS) (OMC)

VERY POPULAR *12V* BOAT TILT TRIM MOTOR

"WMS" PART NUMBER W-4258

REPLACES NUMBERS, 17649, 1764981, 17649A
17649A1, 430-22005, 88186T, 94351015, M87828

(APPLICATIONS) (MARINER & MERCURY)

VERY POPULAR *12V* BOAT TILT TRIM MOTOR

"WMS" PART NUMBER W-4259

REPLACES NUMBERS, 382220, 40-259, 382138, 82-6851
ETK-4001, ETK-4102, ETK-4105 ETC.

(APPLICATIONS) (OMC, ETC.)

VERY POPULAR *6 VOLT* "IHC" STARTER MOTOR

"WMS" PART NUMBER W-4132N

REPLACES NUMBERS,

104219A2R, 140-013, 4188, 1107427,
1107448, 4132, 323-801, 34-1238, 61M,
(APPLICATIONS)

(INTERNATIONAL HARVESTER TRACTORS)

(THIS STARTER MOTOR HAS A THREADED TERMINAL POST)

POPULAR *6 VOLT* "IHC" STARTER MOTOR

"WMS" PART NUMBER W-4033N

REPLACES NUMBERS,

98-449934Z, 63M, 44-9934, 1107067,
1107093, 34-1229, 140-014, 4033
(APPLICATIONS)

(INTERNATIONAL TRACTOR SUPER A & C)

(THIS STARTER MOTOR USE'S A CONTACT BUTTON FOR THE POST)

12V STARTING MOTOR W/SWITCH

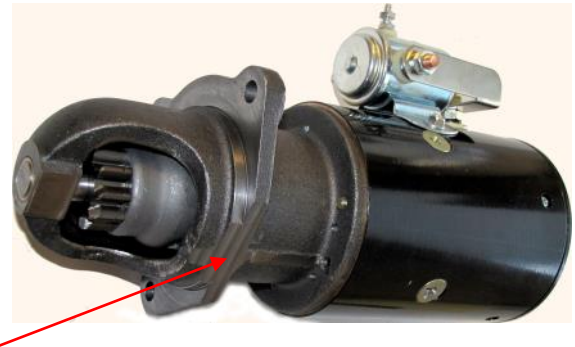
"WMS" PART NUMBER, MDY6004NR

REPLACES NUMBERS,
MDY6004, MCL6004-12V, MDY6004S

(APPLICATIONS) (CHRIS-CRAFT, MASSEY FERGUSON)

(CW ROTATION WITH A LARGE 10 TOOTH GEAR)

(STARTER HAS A SPEC/MILLED FLAT AREA)



12V STARTING MOTOR W/SWITCH

"WMS" PART NUMBER, MDY7010TNR

REPLACES NUMBERS,
160-182, 46-252, 5169, MDY7013, MDY7010

(APPLICATIONS) (CONTINENTAL, HERCULES)

(CW ROTATION WITH A LARGE 10 TOOTH GEAR)

24V STARTING MOTOR W/SOLENOID

"WMS" PART NUMBER, MHJ7102T

REPLACES NUMBERS,
MHJ-7102T, 46-2300, MHJ7102

(APPLICATIONS) (CADILLAC GAGE)

(CW ROTATION WITH A SMALL 9 TOOTH GEAR)

24V (INS) STARTING MOTOR W/SOLENOID

"WMS" PART NUMBER, MUF6001TNR

REPLACES NUMBERS, MUF-6001, MUF-6001T,

(APPLICATIONS) (TIERNAY TURBINE CORP.)

****

**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***

(REMANUFACTURED UNIT W/A CORE CHARGE)

*** NOTE * "ALL" DISCONTINUED PRESTOLITE STYLE STARTER MOTORS HAVE A CORE CHARGE ***

***12V* (CW) STARTING MOTOR**

"WMS" PART NUMBER, MEO6105NR

REPLACES NUMBERS, MEO-7003
MEO-6105, 46-3592, 5069865, 051498, MEO-6105S

(APPLICATIONS) (MERCURY MARINE)
(CW ROTATION WITH A 9 TOOTH GEAR)
**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***
(THE MEO-6105 HAS BEEN DISCONTINUED BY AMETEK)
(USE "WMS" NUMBER MEO-6105NR)

***12V* (CW) STARTING MOTOR**

"WMS" PART NUMBER, MHA6101NR

REPLACES NUMBERS, MHA-6101
46-3596, 997760, 830-467-C91, MHA-6101S

(APPLICATIONS) (INT. TRUCK, CHRYSLER CORP., CLARK)
(CW ROTATION WITH A 9 TOOTH GEAR)

(THE MHA-6101 HAS BEEN DISCONTINUED BY AMETEK)
(USE "WMS" NUMBER MHA-6101NR)
(FOR A STARTER COMPLETE W/A SWITCH USE MHA-6106NR)

***12V* (CCW) STARTING MOTOR**

"WMS" PART NUMBER, MHA6102NR

REPLACES, 46-3597, MBG4141, 46-910, 46-2577, 5494, 5495, 46-911, MHA-6102, MHA6102, MHA7021, 160-155, 04-1051, YA-61, MHA-7021, MHA6102S, MBG-4141, 6513373, 69646C91
(APPLICATIONS)
(TELEDYNE WISCONSIN, WISCONSIN ENGINE)
(CCW ROTATION WITH A 10 TOOTH DRIVE)
(MHA-6102 / 46-3597 HAS BEEN DISCONTINUED BY AMETEK PRESTOLITE MOTORS)
(USE WESTERN MOTORS NUMBER MHA6102NR)

NEW STARTER MOTOR "WITHOUT" A CORE CHARGE

12V (CW) STARTING MOTOR W/SOLENOID

"WMS" PART NUMBER, MDT6012NR

REPLACES, 5615, 19-411119, 191-1209, MDT-6012, 46-2427
MDT-6012BT, 5151, 2875642, 599904-00, MDT-6012C
(APPLICATIONS)
(YALE FORKLIFT, CHRYSLER CORP., EATON)
(REMANUFACTURED UNIT W/A CORE CHARGE)

12V (CW) STARTING MOTOR W/SOLENOID

"WMS" PART NUMBER, MDT6013NR

REPLACES NUMBERS,
3003779, 802300, 5613, 34-1648, MDT-6021, 194119, 46-129
160-152, 5099304-00, 5099304, 5300846-04, 646706, MDT-6013
(APPLICATIONS)
(YALE FORKLIFT, CHRYSLER CORP., EATON)
(REMANUFACTURED UNIT W/A CORE CHARGE)

12V (CCW) STARTING MOTOR W/SOLENOID

"WMS" PART NUMBER, MEO6102NR

REPLACES NUMBERS, 44 4731, 5097, 46-185, 191-0324, 46-3590
MEO-6003, MEO-6102, 3185C37G01, MEO-6102S
(APPLICATIONS) (ONAN, THERMO KING)
(REMANUFACTURED UNIT W/A CORE CHARGE)

12V (CCW) STARTING MOTOR W/SWITCH

"WMS" PART NUMBER, MDY6148NR

REPLACES NUMBERS,
MDY-7060, MDY-7062, MDY-6148, 46-3582
46-2479, 46-2515, 9G1055, 3T3836, MDY-6148S

(APPLICATIONS) (CATERPILLAR EQUIPMENT)

(CCW ROTATION WITH A 9 TOOTH GEAR)

**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***

*** NOTE * "ALL" DISCONTINUED PRESTOLITE STYLE STARTER MOTORS HAVE A CORE CHARGE ***

***24V* (CCW) STARTING MOTOR W/SOLENOID**

"WMS" PART NUMBER, MHJ6105NR

REPLACES NUMBERS,

MHJ-7103, MHJ-7103S, MHJ-6105, MHJ-6105S
5681, 160-159, 191-0429, 191-0443, 160-159, 46-2419, 46-3610
2642330, 2642330-1, 26423301, 38392PR858, N00383-92-P-R858

(APPLICATIONS) (ONAN CORP.)

(CCW ROTATION WITH A LARGE 10 TOOTH GEAR)

(REMANUFACTURED UNIT W/A CORE CHARGE)

***24V* (CW) STARTING MOTOR W/SOLENOID**

"WMS" PART NUMBER, MHP6101NR

REPLACES NUMBERS,

46-2808, 46-3565, MHP-7102, MHP-7102S, MHP-6101, MHP-6101S

(APPLICATIONS)

(FUEL & ELECTRIC SYSTEMS, AEA FUEL & ELECTRIC)

(CW ROTATION WITH A LARGE 10 TOOTH GEAR)

(REMANUFACTURED UNIT W/A CORE CHARGE)

***24V* (CW) STARTING MOTOR W/SOLENOID**
AND "INSULATED" GROUND TERMINAL POST.

"WMS" PART NUMBER, MHP6101NS

REPLACES NUMBERS, MHP6102T, MHP-6102T
2920-01-040-5546, 46-2009, 46-3617, MHP6102

(APPLICATIONS)
(AEA FUEL & ELECTRIC & MILITARY APPLICATIONS)

(CW ROTATION WITH A LARGE 10 TOOTH GEAR)

(GROUND TERMINAL STUD CONNECTION)

(THIS TERMINAL STUD IS GROUNDED TO THE FIELD FRAME)

(REMANUFACTURED UNIT W/A CORE CHARGE)

*** NOTE * "ALL" DISCONTINUED PRESTOLITE STYLE STARTER MOTORS HAVE A CORE CHARGE ***

***24V* (CW) STARTING MOTOR W/SOLENOID**
AND "INSULATED" GROUND TERMINAL POST.
"WMS" <u>PART NUMBER, MHP7101TNR</u>

REPLACES NUMBERS,
MHP-7101T, MHP6102T, MHP-6102T
2920-01-040-5546, 46-2009, 46-3617, MHP7101T

(APPLICATIONS)

(AEA FUEL & ELECTRIC & MILITARY APPLICATIONS)

(CW ROTATION WITH A LARGE 10 TOOTH GEAR)
(INSULATED GROUND TERMINAL POST CONNECTION)
(REMANUFACTURED UNIT W/A CORE CHARGE)

*** NOTE * "ALL" DISCONTINUED PRESTOLITE STYLE STARTER MOTORS HAVE A CORE CHARGE ***

***12V* STARTING MOTOR**

"WMS" PART NUMBER, MDY6129NR

REPLACES NUMBERS,

MDY6129, 46-2186, 46-3568, MDY7045, MDY7045A

(APPLICATIONS) (CHRIS-CRAFT)

(CW ROTATION WITH A SMALL 9 TOOTH GEAR)

***12V* STARTING MOTOR**

"WMS" PART NUMBER, MDU7034NR

REPLACES NUMBERS, 46-728

MDU7034, MDU7034RM, MDU7034S

(APPLICATIONS) (CHRIS-CRAFT, HARMAN MARINE)

(CW ROTATION WITH A SMALL 9 TOOTH GEAR)

***12V* STARTING MOTOR**

"WMS" PART NUMBER, MDU7035NR

REPLACES NUMBERS, 46-3575

MDU7035, MDY6140, MHA7006, MDY7056, MDY6140S

(APPLICATIONS) (CHRIS-CRAFT, HARMAN MARINE)

(CCW ROTATION WITH A SMALL 9 TOOTH GEAR)

12V (CCW) STARTING MOTOR W/SOLENOID

"WMS" PART NUMBER, MDT6101NR

REPLACES NUMBERS, MDY-7046, MDT6101
MDT-6101, MDY-7046A, MDY-7046S, 46-2187

(APPLICATIONS) (CHRIS-CRAFT MARINE)

(DE HSG. HAS ONE THREADED MOUNTING EAR)
(CCW ROTATION WITH 9 TOOTH DRIVE GEAR)
(FIELD FRAME HAS A SPECIAL MILLED FLAT AREA)
** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)*

12V (CW) STARTING MOTOR

"WMS" PART NUMBER, MHA7016NR

REPLACES NUMBERS, 5660, MHA-7016, MHA-7016S
50-72550, 160-193, 46-2273, 46-3599, MHA-6104, MHA-6104S

(APPLICATIONS) (MERCURY MARINE)

*(*NOTE* THE FIELD CASE HAS A SUPPORT BRACKET STUD ON THE SIDE OF THE FIELD FRAME)*
** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)*

12V (CCW) STARTING MOTOR

"WMS" PART NUMBER, MHA7019NR

REPLACES NUMBERS, MHA-7019, MHA-7019S, 46-2464
YA-59, MHA-6105, MHA-6105S

(APPLICATIONS) (TELEDYNE WISCONSIN)

(REMANUFACTURED UNIT W/A CORE CHARGE)
(This starter has a core charge for the DE Hsg, if broken or welded it's no value)

12V (CCW) STARTING MOTOR

"WMS" PART NUMBER, MHA7020NR

REPLACES NUMBERS, MHA-7020, MHA-7020S, 46-2485

(APPLICATIONS) (MERCURY MARINE)

*(*NOTE* THE FIELD CASE HAS A SUPPORT BRACKET STUD ON THE SIDE OF THE FIELD FRAME)*
** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)*

*** NOTE * "ALL" DISCONTINUED PRESTOLITE STYLE STARTER MOTORS HAVE A CORE CHARGE ***

12V (CW) STARTING MOTOR *(OIL SEALED)*

"WMS" PART NUMBER, MDT6102NR

REPLACES NUMBERS,

MDT-7018, MDT-7024, MDT-7025,

160-179, 1500279, 150035900, 15002790-C, 150035700,

5608, 5147334R, 5162954, 5171624, 5177830, MDT-6102S

3003783, 51473334-00, MDT-6102, 46-2081, 46-2082, 46-3556

(APPLICATIONS)

(HYSTER, YALE FORKLIFT, CHRYSLER CORP., EATON CORP.)

(CW ROTATION WITH A 9 TOOTH GEAR)

**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***

12V (CW) STARTING MOTOR

"WMS" PART NUMBER, MDT6103NR

REPLACES NUMBERS,

MDT-6001, MDT-7001, MDT-6103, 46-3557

46-124, 46-130, 2875928, 1779955, 1889297, MDT-6103S

(APPLICATIONS)

(CHRYSLER CORP., AND CHRYSLER MARINE)

(CW ROTATION WITH A 9 TOOTH GEAR)

**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***

12V (CW) STARTING MOTOR W/SOLENOID

"WMS" PART NUMBER, MDU6103NR

REPLACES NUMBERS,

46-720, 46-721, 46-2067, 46-2235, 46-3561

MDU-6101S, MDU-7102, MDU-7104, MDU-7114, MDU-7115

A47458, A47589, A47462, A47463, MDU-7116, MDU-7117, 5246

47456, 47457, 46-3559, 34-1310, G-44888, A-36584, MDU-6103S

(APPLICATIONS)

(J. I. CASE EQUIPMENT)

(CW ROTATION WITH A 9 TOOTH GEAR)

**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***

*** NOTE * "ALL" DISCONTINUED PRESTOLITE STYLE STARTER MOTORS HAVE A CORE CHARGE ***

***12V* (CCW) STARTING MOTOR W/SWITCH**

"WMS" PART NUMBER, MHA6103NR

REPLACES NUMBERS, 5180, MHA-6103, 46-3598,
YA-60, MHA-7004, 46-841, 00270201, YA26A, MHA-6103S

(APPLICATIONS) (NEW HOLLAND, TELEDYNE-WISCONSIN)

(CCW ROTATION WITH A LARGE 10 TOOTH GEAR)

**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***

***12V* (CW) STARTING MOTOR W/SWITCH**

"WMS" PART NUMBER, MHA6106NR

REPLACES NUMBERS,
3252, MHA-6106, 46-3601
AE-36211, AE-49533, MHA-6106S

(APPLICATIONS) (JOHN DEERE EQUIPMENT)
(CW ROTATION WITH A 9 TOOTH GEAR)
(FOR A STARTER WITHOUT A SWITCH USE MHA6101NR)

***12V* (CW) STARTING MOTOR W/SWITCH**

"WMS" PART NUMBER, MHA6107NR

REPLACES NUMBERS, 3248, 44-1003, 44-1018,
44-1052, 44-8187, 46-2234, MHA-7015, MHA-6107S
MDU-6003, 323-81, 5222, 3755990, 46-3602

(APPLICATIONS) (TELEDYNE WISCONSIN
WISCONSIN ENGINE, (CHRIS-CRAFT, THERMO-ELECTRON)
(CW ROTATION WITH A 9 TOOTH GEAR)
**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***

***12V* (CW) STARTING MOTOR W/SWITCH**

"WMS" PART NUMBER, MBG4131RM

REPLACES NUMBERS, 46-75, 46-155, 46-294, MBG-4131

(APPLICATIONS)
(CLIMAX, CONTINENTAL, UNIVERSAL MARINE, HERCULES)
(CW ROTATION WITH A 10 TOOTH GEAR)
(REMANUFACTURED UNIT W/A CORE CHARGE)

12V "CW" SHAFT STARTER MOTOR

(FOR BOATS AND OTHER MISC. ENGINES)

"WMS" PART NUMBER, MHA7007NR

REPLACES NUMBERS, W-7007, MDY-7029, MDY-7029S
46-804, 46-2043, MHA-7007, MHA-7007A

(APPLICATIONS) (OUTBOARD MARINE CORP.)
(EVINRUDE, JOHNSON, AND MANY SPECIAL APP'S.)

(.625"/ 15.87mm DIA. SHAFT W/ROLL PIN HOLE)

(SPECIAL TWO PIECE "V" BELT CAM PULLEY)

(OPENS UP AND DISENGAGES AFTER ENGINE STARTS)

6V (CW) JEEP STARTING MOTOR

"WMS" PART NUMBER, MCH6207RM

REPLACES NUMBERS,
46-12, 46-15, 3382, MCH6207,
160-379, 160-383, 323-102, MCH6203

(APPLICATIONS)
(WILLYS JEEP, 6V, 1952-1960)

(CW ROTATION WITH A 9 TOOTH GEAR)

(REMANUFACTURED UNIT W/A CORE CHARGE)

(9) TOOTH DRIVE GEAR

12V (CW) STARTING MOTOR W/SOLENOID

"WMS" PART NUMBER, MDA4001TNR

REPLACES NUMBERS, C8331465, MDA-4001, MDA-4001T
MZ-4137-12V, 3318-12V, 46-944,

(APPLICATIONS)

(MISC. / JEEPS MILITARY 1945 <> 1975)

(CW ROTATION WITH A LARGE 9 TOOTH GEAR)

(NEW OUTRIGHT WITH NO CORE CHARGE)

****

(FOR A STARTER WITH A (10) TOOTH DRIVE)

(ORDER NUMBER = MDA4002T)

***12V* (CW) STARTING MOTOR W/SOLENOID**

"WMS" PART NUMBER, MBG4107RM

REPLACES NUMBERS, 5217, MBG-4107, MBG-4107A
46-77, 46-2200, C-50340, 50340, MBG-4107B

(APPLICATIONS) (CONTINENTAL, TOWMOTOR)
(CW ROTATION WITH A LARGE 9 TOOTH GEAR)
**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***
(REMANUFACTURED UNIT W/A CORE CHARGE)

***12V* (CCW) STARTING MOTOR**

"WMS" PART NUMBER, MBG4134RM

REPLACES NUMBERS, 5488, MBG-4134, MBG4134
PS428, 46-456, 46-732, MBG4134A, MBG4134B
MBG4144, 6517049, 191-0511, 191-0532, MBG4134A

(APPLICATIONS) (ONAN & WEST COAST MARINE)
(CCW ROTATION WITH A LARGE 10 TOOTH GEAR)
**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***
(REMANUFACTURED UNIT W/A CORE CHARGE)

***12V* (CCW) STARTING MOTOR W/SOLENOID**

"WMS" PART NUMBER, MBG4137RM

REPLACES, 99062, 46-2205, MBG4137, 099062, C099062, C099062

(APPLICATIONS) (CONTINENTAL, TOWMOTOR)
(CCW ROTATION WITH A LARGE 9 TOOTH GEAR)

**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***
(REMANUFACTURED UNIT W/A CORE CHARGE)

***12V* (CW) STARTING MOTOR W/SOLENOID**

"WMS" PART NUMBER, MBG4108RM

REPLACES NUMBERS, 160-177, 160-177B, 160-531, MBG4108
MBG4114, MBG4135, 46-2201, 5261, MBG4108A

(APPLICATIONS) (CONTINENTAL, TOWMOTOR)
(CW ROTATION WITH A LARGE 9 TOOTH GEAR)

**** NOTE * (SOME DE HOUSINGS MAY BE FROM OEM CORES)***
(REMANUFACTURED UNIT W/A CORE CHARGE)

***12V* (CW) STARTING MOTOR**

"WMS" PART NUMBER, MBG4127RM

REPLACES NUMBERS, 5404, 5487, MBG-4127, MBG-4127A
46-855, 46-2204, MZ-4046, C-63559, 63559

(APPLICATIONS) (CONTINENTAL, TOWMOTOR)

(CW ROTATION WITH A 9 TOOTH GEAR)

(REMANUFACTURED UNIT W/A CORE CHARGE)

***12V* CCW STARTING MOTOR W/DRIVE**

"WMS" PART NUMBER, MBG4124RM

REPLACES NUMBERS,
MZ-2375, 46-67, MBG-4124, MBG4124
(APPLICATIONS) (TELEDYNE-WISCONSIN)

(WITH A LARGE 10 TOOTH GEAR)

(REMANUFACTURED UNIT W/A CORE CHARGE)

***12V* CCW STARTING MOTOR W/DRIVE**

"WMS" PART NUMBER, MBG4125RM

REPLACES NUMBERS, 160-386, MBG4125A
MBG4125B, 46-198, 46-407, MBG-4125, MBG4125
(APPLICATIONS) (OUTBOARD MARINE CORP.)

(WITH A LARGE 15 TOOTH GEAR)

(REMANUFACTURED UNIT W/A CORE CHARGE)

***12V* CCW STARTING MOTOR W/ SW & DRIVE**

"WMS" PART NUMBER, MBG4139RM

REPLACES NUMBERS,
160-256, 46-858, 5280, MBG4139, MBG-4139
(APPLICATIONS) (KOHLER CORP.)

(WITH A 11 TOOTH GEAR)

(REMANUFACTURED UNIT W/A CORE CHARGE)

***12V* CCW STARTING MOTOR W/DRIVE**

"WMS" PART NUMBER, MHA7017RM

REPLACES NUMBERS,

160-534, 46-2329, 5280, MHA-7017, MHA-7017S

(APPLICATIONS) (OUTBOARD MARINE CORP.)

(WITH A 15 TOOTH GEAR)

(REMANUFACTURED UNIT W/A CORE CHARGE)

***24V* CCW STARTING MOTOR**

"WMS" PART NUMBER, 46-240RM

REPLACES NUMBERS,

MCZ4005, MCZ4005UT, MCZ4005AUT, MCZ4006UT

(APPLICATIONS) (MILITARY M-151 JEEP) (MUDD)

(CW ROTATION WITH A SMALL 9 TOOTH GEAR)

(REMANUFACTURED UNIT W/A CORE CHARGE)

*** NOTE * "ALL" DISCONTINUED PRESTOLITE STYLE STARTER MOTORS HAVE A CORE CHARGE ***

***12V* "DBB" GOLF CART AND**
UTILITY VEHICLE STARTER / GENERATOR
(FOR JOHN DEERE GATOR, UTV TX)
REPLACES, GSB10706F, GSB10706H, GSB10706K
AM125672, AM133730, AM135707, AM137931, 114014007, , ETC.
(APPLICATIONS) (UTILITY VEHICLES, GOLF CARTS ETC.)

"ADCM" PART NUMBER, 114-01-4007

*** POPULAR ***
*** STARTER – GENERATOR ***

***12V* GOLF CART & UTILITY VEHICLE**
STARTER / GENERATOR *(FOR 250 / 400cc GAS ENGINES)*
(DOUBLE BALL BEARING)
REPLACES NUMBERS,
GSB107-06, GSB-10706, JN6H11000, GSB107-06E, ETC.
(APPLICATIONS) (UTILITY VEHICLES, GOLF CARTS ETC.)

"WMS" PART NUMBER, W-10706E

*** POPULAR ***
*** STARTER – GENERATOR ***

***12V* GOLF CART & UTILITY VEHICLE**
STARTER / GENERATOR *(FOR 250 / 400cc GAS ENGINES)*
(DOUBLE BALL BEARING)
REPLACES, GSB107-06F, GSB10707F, GSB107-07F, ETC.
(APPLICATIONS) (UTILITY VEHICLES, GOLF CARTS ETC.)

"WMS" PART NUMBER, W-10707F

(THIS UNIT HAS .500 MOUNTING HOLES IN THE END FRAMES)

*** POPULAR ***
*** STARTER – GENERATOR ***

***12V* GOLF CART & UTILITY VEHICLE**
STARTER / GENERATOR *(FOR 250 / 400cc GAS ENGINES)*
REPLACES NUMBERS, GSB-10710A, GSB10710A, GSB107-10A
(APPLICATIONS) (EZ GO VEHICLES, GOLF CARTS ETC.)

"WMS" PART NUMBER, W-10710A

(THIS UNIT HAS .500 MOUNTING HOLES IN THE END FRAMES)
THE ARMATURE SHAFT IN THE W-10710A IS .250 LONGER THAN THE ARMATURE SHAFT IN THE W-10710B.

***12V* GOLF CART & UTILITY VEHICLE**
STARTER / GENERATOR *(FOR 250 / 400cc GAS ENGINES)*
REPLACES NUMBERS,
GSB107-03, 1018294-01, GSB-10703, 1427060220, GSB107-03B, ETC.
(APPLICATIONS)
(UTILITY VEHICLES, GOLF CARTS, CLUB CAR, ETC.)

"WMS" PART NUMBER, W-10703B

(THIS UNIT HAS .500 MOUNTING HOLES IN THE END FRAMES)

*** POPULAR ***
*** STARTER – GENERATOR ***

***12V* GOLF CART & UTILITY VEHICLE**
STARTER / GENERATOR *(FOR 250 / 400cc GAS ENGINES)*
REPLACES NUMBERS, 0010350018, 1018337-01, GSB107-04A, ETC.
(APPLICATIONS)
(UTILITY VEHICLES, GOLF CARTS ETC.)

"WMS" PART NUMBER, W-10704A

*** MOST POPULAR ***
*** STARTER – GENERATOR ***

***12V* GOLF CART & UTILITY VEHICLE**
STARTER / GENERATOR *(FOR 250 / 400cc GAS ENGINES)*
REPLACES NUMBERS, J38-81100-11-00
GSB107-06B, GSB107-05A, ETC.
(APPLICATIONS)
(UTILITY VEHICLES, GOLF CARTS ETC.)

"WMS" PART NUMBER, W-10705A

(THIS UNIT HAS .500 MOUNTING HOLES IN THE END FRAMES)

*** POPULAR ***
*** STARTER – GENERATOR ***

***12V* GOLF CART & UTILITY VEHICLE**
STARTER / GENERATOR *(FOR 250 / 400cc GAS ENGINES)*
REPLACES NUMBERS, 27065001
27065G01, GSB-10710B, GSB10710B, GSB107-10B
(APPLICATIONS)
(EZ GO VEHICLES, GOLF CARTS ETC.)

"WMS" PART NUMBER, W-10710B

(THIS UNIT HAS .500 MOUNTING HOLES IN THE END FRAMES)

*** POPULAR ***
*** STARTER – GENERATOR ***

*** VERY POPULAR ***
*** DELCO REMY STYLE ***
*** STARTER – GENERATOR ***

NEW *12V* "DBB" COUNTER CLOCKWISE
DELCO REMY STYLE STARTER / GENERATOR
REPLACES NUMBERS, 1101692, 1101996, 9090N, 9190RM, 340-40, 9190
(APPLICATIONS)
(RIDING LAWN MOWERS & GARDEN TRACTORS)

"WMS" PART NUMBER, W-9190N

(DRIVE END FRAME HAS "OFFSET" EAR TO THE "RIGHT")

*** POPULAR ***
*** DELCO REMY STYLE ***
*** STARTER – GENERATOR ***

NEW *12V* "DBB" COUNTER CLOCKWISE
DELCO REMY STYLE STARTER / GENERATOR
REPLACES NUMBERS, 1101691, 1101951, 1101967,
1101986, 1101987, 33-1826, 33-1826Z, 331826, 340-41, 9188, 9191,
(APPLICATIONS)
(RIDING LAWN MOWERS & GARDEN TRACTORS)

"WMS" PART NUMBER, W-9191N

(DRIVE END FRAME HAS "OFFSET" EAR TO THE "LEFT")

*** MOST POPULAR ***
*** DELCO REMY STYLE ***
*** STARTER – GENERATOR ***

NEW *12V* "DBB" CLOCKWISE
DELCO REMY STYLE STARTER / GENERATOR
REPLACES NUMBERS, 1101689, 1101690, 1101693, 1101863,
1101870, 1101875, 1101945, 1101970, 1101973, 1101980, 1101981, 1101984
1101989, 1101992, 1101993, 9184, 9185, 9186, 9192, 9197, 9798, 9193, ETC.
(APPLICATIONS)
(RIDING LAWN MOWERS & GARDEN TRACTORS)

"WMS" PART NUMBER, W-9193N

(DRIVE END FRAME HAS "OFFSET" EAR TO THE "LEFT")

SHORT STEP / CASE
*** STARTER – GENERATOR ***

REMANUFACTURED *12V* "DBB" SHORT CLOCKWISE
DELCO REMY STYLE STARTER / GENERATOR
REPLACES, W9194, 1101694, 1101695, 1101873, 1101932, 1101974, 9187, 9194
(APPLICATIONS)
(RIDING LAWN MOWERS & GARDEN TRACTORS)

"WMS" PART NUMBER, W-9194RM

(DRIVE END FRAME HAS "OFFSET" EAR TO THE "LEFT")
(This is a remanufactured unit and has a core charge)

REMANUFACTURED *6V* NON-VENTED CLOCKWISE
FORD STYLE REMAN/GENERATOR
REPLACES NUMBERS, 5794, W5794, W5794RM, 350-41, 8N10000B
(APPLICATIONS)
(FORD TRACTORS, FARM & CONSTRUCTION USING A 6V SYSTEM)
"WMS" PART NUMBER, W-5794RM
(THIS IS AN "A" FIELD CIRCUIT GENERATOR)
(This is a remanufactured unit and has a core charge)

REMANUFACTURED *6V* NON-VENTED CLOCKWISE
FORD STYLE REMAN/GENERATOR
REPLACES, W5798, 5798, 350-42, 8N10001
(APPLICATIONS)
(FORD TRACTORS, FARM & CONSTRUCTION USING A 6V SYSTEM)
"WMS" PART NUMBER, W-5798RM
(THIS IS AN "A" FIELD CIRCUIT GENERATOR)
(This is a remanufactured unit and has a core charge)

REMANUFACTURED *6V* NON-VENTED CLOCKWISE
FORD STYLE REMAN/GENERATOR
REPLACES, W5799, 5799, 350-43, FAA10139, FAC10000A
(APPLICATIONS)
(FORD TRACTORS, FARM & CONSTRUCTION USING A 6V SYSTEM)
"WMS" PART NUMBER, W-5799RM
(THIS IS AN "B" FIELD CIRCUIT GENERATOR)
(This is a remanufactured unit and has a core charge)

REMANUFACTURED *12V* NON-VENTED CLOCKWISE
FORD STYLE REMAN/GENERATOR
REPLACES, W5838, 5838, 350-44, W-5838, B9NF10000A
(APPLICATIONS)
(CARS, TRACTORS, FARM & CONSTRUCTION USING A 12V SYSTEM)
"WMS" PART NUMBER, W-5838RM
(THIS IS AN "B" FIELD CIRCUIT GENERATOR)
(This is a remanufactured unit and has a core charge)

REMANUFACTURED *12V* SHORT/STEP CLOCKWISE
DELCO REMY STYLE REMAN/GENERATOR
REPLACES, W9095, 9095, 9951, 1100434, 1100435, 1100443
(APPLICATIONS)
(TRACTORS, FARM & CONSTRUCTION USING A MECHANICAL TACT)

"WMS" PART NUMBER, W-9095RM

(DRIVE END FRAME EAR IS SLIGHTLY "OFFSET" TO THE "LEFT")
(This is a remanufactured unit and has a core charge)

SHORT STEP
FIELD FRAME CASE

REMANUFACTURED *6V* 3/brush CLOCKWISE
DELCO REMY STYLE REMAN/GENERATOR
REPLACES, W10181, 9718, 9986, 10181, 1100501, 339398Z
340-21, 1101355, 1101358, 1101423, 339361Z, 340-22
(APPLICATIONS)
(FARM & CONSTRUCTION EQUIPMENT)

"WMS" PART NUMBER, W-10181RM

(DRIVE END FRAME EAR IS SLIGHTLY "OFFSET" TO THE "LEFT")
(The field frame has threaded holes for mounting a voltage regulator)
(This is a remanufactured unit and has a core charge)
(FOR 12V USE NUMBER W-10170)

.256”/ 6.50mm Shaft slot

“AMETEK “ PART NUMBER, MMY6302

12V (CCW) HD/DBB SLOT SHAFT MOTOR

REPLACES NUMBERS, W-8945C, 39200398, MMY6101A
W-8945, 203-4895, 510320, 46-4154, W-8945D, 39200506

(APPLICATIONS)
MTE HYDRAULICS, ANTHONY LIFTGATES etc.

(This is a Ametek version of the “WMS” number W-8945D)

(4.6 HP @ MAX/OUTPUT <> 1900 / 5100 RPM)

WITH OVERLOAD PROTECTION

.256”/ 6.50mm Shaft slot

“AMETEK” PART NUMBER, MMY6304

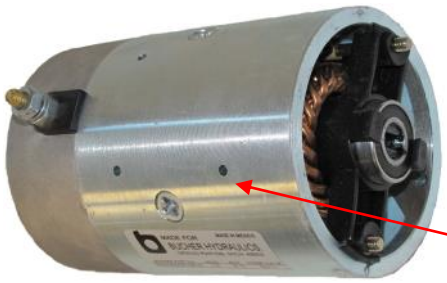
12V CCW/DBB HD/DBB SLOT SHAFT MOTOR W/OLP

REPLACES NUMBERS,
MMY6304S, W-8943A, 50020500800316

(APPLICATIONS)
MONARCH & BUCHER HYDRAULICS

(This is a Ametek version of the “WMS” number W-8943K)

(4.6 HP @ MAX/OUTPUT <> 1900 / 5100 RPM)



.256”/ 6.50mm Shaft slot

“AMETEK” PART NUMBER, MMY6304A

12V CCW/DBB HD/DBB SLOT SHAFT MOTOR

REPLACES NUMBERS,
MMY6304AS, 50020500819615, 5002050089616

(APPLICATIONS)
MONARCH & BUCHER HYDRAULICS

(The field frame has special switch holes)

(4.6 HP @ MAX/OUTPUT <> 1900 / 5100 RPM)

.256”/ 6.50mm Shaft slot
is .750”/19.05mm from bearing

“AMETEK” PART NUMBER, MMY6305

12V (CCW) HD/DBB SLOT SHAFT MOTOR

REPLACES NUMBERS,
W-9305, MMY6305, 268337-01, 39200518, MMY6305S

(APPLICATIONS) MTE HYDRAULICS

(For a motor with overload protection use MMY6305A)

(The switch holes are offset to the “Right” of the terminal post and the face of the DE frame has two oval recesses)

(4.6 HP @ MAX/OUTPUT <> 1900 / 5100 RPM)

WITH OVERLOAD PROTECTION

"AMETEK" PART NUMBER, MMY6305A

***12V* (CCW) HD/DBB SLOT SHAFT MOTOR W/OLP**

REPLACES, W-9305A, MMY6305, 39200536, MMY6305AS

(APPLICATIONS) MTE HYDRAULICS

(The switch holes are offset to the "Right" of the terminal post and the face of the DE frame has two oval recesses)

(For a motor without overload protection use MMY6305)

(4.6 HP @ MAX/OUTPUT <> 1900 / 5100 RPM)

.256"/ 6.50mm Shaft slot is .750"/19.05mm from bearing

"AMETEK" PART NUMBER, MMY6306

***12V* (CCW) HD/DBB SLOT SHAFT MOTOR**

REPLACES NUMBERS,
W-8943D, 50020501926016, 25236, 08082, 2200184, 145007, MMY6306S, 46-4038, 3260110, 4423521, 46-2516, 70091739, 9130450038, BMT0127, 11.212.484

(APPLICATIONS) MONARCH & BUCHER HYDRAULICS

(This is a Ametek version of the "WMS" number W-8943D)

(4.6 HP @ MAX/OUTPUT <> 1900 / 5100 RPM)

.256"/ 6.50mm Shaft slot

"AMETEK" PART NUMER, MUE6301

***12V* (CCW) DBB SLOT SHAFT MOTOR**

REPLACES NUMBERS, MUE6301S,
MUE6301, 2201094, 39200388, 39200443
203T3809, 2200727, MUE6301C

(APPLICATIONS) (MTE HYDRAULICS

ANTHONY EQUIPMENT,HALDEX/BARNES, WALTCO)

(This is a Ametek version of the "WMS" number W-8999D)

(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

WITH OVERLOAD PROTECTION

"AMETEK" PART NUMER, MUE6301A

***12V* (CCW) DBB SLOT SHAFT MOTOR W/OLP**

REPLACES NUMBERS,
MUE6301A, W-8999A, 39200486
W-8999B, 46-4169, MUE6301AS

(APPLICATIONS) (MTE HYDRAULICS

ANTHONY EQUIPMENT,HALDEX/BARNES, WALTCO)

(This is a Ametek version of the "WMS" number W-8999B)

(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

.256"/ 6.50mm Shaft slot

"AMETEK" PART NUMER, MUE6301B

***12V* (CCW) DBB SLOT SHAFT MOTOR**

REPLACES NUMBERS, MUE6301S, W-8999D
MUE6201, MUE6301, 2201094, 39200388, 39200443, 160-843A
W8999, 203T3809, 2200727, 46-4057, MUE6301C, 91304500081, 22001094

(APPLICATIONS) (MTE HYDRAULICS

ANTHONY EQUIPMENT,HALDEX/BARNES, WALTCO)

(This is a Ametek version of the "WMS" number W-8999D)

(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

.256"/ 6.50mm Shaft slot
is .750"/19.05mm from bearing

WITH OVERLOAD PROTECTION

"AMETEK" PART NUMBER, MUE6301D

***12V* (CCW) DBB EXTENDED SLOT SHAFT MOTOR W/OLP**

REPLACES NUMBERS, W-8213A, MUE6301DS, 39200532

(APPLICATIONS) (SPX, MONARCH, MAXON, MTE HYD.)

Has 3/4" long extended slot shaft & thru bolts are at 5 & 11

(The switch holes are offset to the "Right" of the terminal post and the face of the DE frame has two oval recesses)

(This is a Ametek version of the "WMS" number W-8213A)

(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

"AMETEK" PART NUMBER, MUE6302

***12V* (CCW) DBB SLOT SHAFT MOTOR**

(.256" slot width) (3 & 9 thru bolts)

REPLACES NUMBERS,

W-8911, MUE6302S, 8111, 8111D, 8111E, MUE6202S, W-8911D

(APPLICATIONS) (BUCHER & MONARCH HYDRAULICS)

(This is a Ametek version of the "WMS" number W-8911D)

(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

.256"/ 6.50mm Shaft slot

WITH OVERLOAD PROTECTION

"AMETEK" PART NUMBER, MUE6302A

***12V* (CCW) DBB SLOT SHAFT MOTOR W/ OLP**

(.256" slot width) (3 & 9 thru bolts)

REPLACES NUMBERS,

MUE6202A, 08045, 5008045, W-8911A, 804516, MUE6302AS

(APPLICATIONS) (BUCHER & MONARCH HYDRAULICS)

(This is a Ametek version of the "WMS" number W-8911K)

(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

.256"/ 6.50mm Shaft slot

"AMETEK" PART NUMBER, MUE6304A

***12V* (CCW) SLOT SHAFT MOTOR W/SWITCH**

REPLACES NUMBERS,

W-8211, W-8767, MUE6211, MUE8211, MUE6304, MUE6304AS

(APPLICATIONS)

(ENERGY MANUFACTURING,WILLIAMS MACHINE & TOOL)

(This is a Ametek version of the "WMS" number W-8211D)

(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

.256"/ 6.50mm Shaft slot

"AMETEK" PART NUMBER, MUE6305

***12V* (CCW) DBB EXTENDED SLOT SHAFT MOTOR**

REPLACES NUMBERS, W-8213, MUE6305S, 39200517

(APPLICATIONS) (SPX, MONARCH, MAXON, MTE HYD.)

Has 3/4" long extended slot shaft & thru bolts are at 5 & 11

(The switch holes are offset to the "Right" of the terminal post and the face of the DE frame has two oval recesses)

(This is a Ametek version of the "WMS" number W-8213)

(FOR A MOTOR WITH "OLP" USE MUE6301D)

.197”/ .500mm Shaft slot

“AMETEK” PART NUMBER MUE6306

12V (CW) INS/GRD 2 POST SLOT/SHAFT MOTOR

(SHAFT SLOT WIDTH IS 0.197”/ .500mm)

REPLACES NUMBERS, 56363, 000339, 10779
51049, 160-844A, PDCM1013, MUE6306S, W-6306, W-6306D
(APPLICATIONS)
FISCHER & WESTERN SNOW PLOWS W/O THE DE FRAME
(This is a Ametek version of the “WMS” number W-6306D)
(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

Mounting centers are 5.5”

“AMETEK” PART NUMBER MUE6307A

12V (CW) 1 POST 2 COIL SHAFT MOTOR W/SW.

(SHAFT HAS A 0.250 ROLL PIN HOLE)

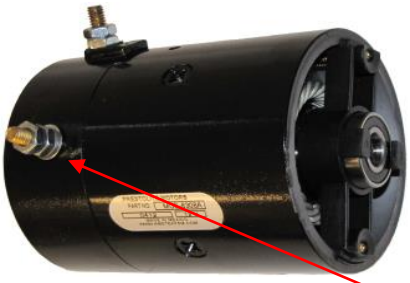
REPLACES NUMBERS,
MUE6307, W-6307A, MUE6207, W-6307, MUE6307A
(APPLICATIONS) WATEROUS PRIMER PUMPS
(This is a Ametek version of the “WMS” number W-6307)
(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)
(Motor has a ground cable stud)

.256”/ 6.50mm Shaft slot

“AMETEK” PART NUMBER, MUE6308

12V (CCW) INS/GRD 2 POST SLOT/SHAFT/MOTOR

REPLACES NUMBERS, MUE6308S, W-6212C, 39200475, MUE6208
MUE-6208, 540-019, 46-4212, MUE-6208S, W-6212, S203*4621
(APPLICATIONS)
(RAYMOND CORP., HALDEX, HYSTER, MONARCH, MTE, ETC.)
(BOTH TERMINAL POSTS ARE INSULATED)
(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)



.256”/ 6.50mm Shaft slot

“AMETEK” PART NUMBER, MUE6308A

12V (CCW) SLOT/SHAFT/MOTOR

MOTOR HAS “TERMINAL CASE GROUND”
REPLACES NUMBERS, 39200526, S203T*5051, MUE6308AS
(APPLICATIONS)
(RAYMOND CORP., HALDEX, HYSTER, MONARCH, MTE, ETC.)
(LEFT TERMINAL POST IS GROUNDED TO THE FIELD FRAME)
(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

“AMETEK” PART NUMBER, MUE6314

***12V* (CCW) INS/GRD 2 POST SLOT/SHAFT/MOTOR**

REPLACES NUMBERS, 39200550, Z-EMDC-1A-BCB, 543913806

(APPLICATIONS)

(RELATED FLUID POWER, MTE, BUCHER, MONARCH HYD)

For a motor with overload protection use number MUE6314A

(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

.256”/ 6.50mm Shaft slot

“AMETEK” PART NUMBER, MUE6316

***12V* (CW) 1 POST 4 COIL SHAFT MOTOR W/SW.**

(SHAFT WOODRUFF KEY SLOT WIDTH IS 0.197”/ .500mm)

REPLACES NUMBERS,
MUE6316, W-6316A, MUE6216, MUE6216S, W-6216, MUE6316A

(APPLICATIONS) WATEROUS PRIMER PUMPS

(This is a Ametek version of the “WMS” number W-6216)

(2.54KW / 3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

(Motor has a ground cable stud)

PICTURE NOT AVAILABLE AT THIS TIME

“AMETEK” PART NUMBER, MUE6317

***12V* (CCW) INS/GRD 2 POST SLOT/SHAFT/MOTOR**

REPLACES NUMBERS, 500205019326, MUE6317S

(APPLICATIONS)

(BUCHER, MONARCH HYDRAULICS)

(3.4 HP @ MAX/OUTPUT <> 1700 / 4600 RPM)

"AMETEK" PART NUMBER, MUZ6302

***24V* (CW) INS/GRD 2 POST SLOT SHAFT MOTOR**

(2 FIELD & 2 SHUNT COILS)

REPLACES NUMBERS,

MUZ6302-0, MUZ6302S,

(APPLICATIONS)

(HYDRO TEK HYDRAULICS)

(3.6 HP @ MAX/OUTPUT <> 2200 / 4600 RPM)

.256"/ 6.50mm Shaft slot

PICTURE NOT AVAILABLE AT THIS TIME

Shaft is .130"/3.30mm past bearing

"AMETEK" PART NUMBER, MUP6302

***12V* (CW) INS/GRD 2 POST SLOT SHAFT MOTOR**

(2 FIELD & 2 SHUNT COILS)

REPLACES NUMBERS,

11062101D116A120103, D116A, MUP6302S

(APPLICATIONS)

(HYDRO TEK HYDRAULICS)

(3.6 HP @ MAX/OUTPUT <> 1800 / 4400 RPM)

.256"/ 6.50mm Shaft slot

PICTURE NOT AVAILABLE AT THIS TIME

Shaft is .130"/3.30mm past bearing

"AMETEK" PART NUMBER, MUP6301

***12V* (CCW) SLOT SHAFT MOTOR**

(2 FIELD & 2 SHUNT COILS)

REPLACES NUMBERS,

W-8993D, 08112P, 8112, 46-4166 MUP6301S, MUP6201S, W-9293D

(APPLICATIONS)

(MONARCH & BUCHER HYDRUALICS)

(This is a Ametek version of the "WMS" number W-9293D)

(3.6 HP @ MAX/OUTPUT <> 1800 / 4400 RPM)

.256"/ 6.50mm Shaft slot

"AMETEK" PART NUMBER, MUV6301A

***12V* (F &R) SLOT SHA/MOTOR W/OLP AND (4) SW/ HOLES**

REPLACES NUMBERS,

39200498, 160-785, 280381, MUV6202

430-20051, LPL0066, BMT0030T, MUV6202S, W-6901

(APPLICATIONS) (MTE HYDRAULICS, HALDEX BARNES)

(This is a Ametek version of the "WMS" number W-6901)

(3.4 HP @ MAX/OUTPUT <> 1600 / 4800 RPM)

WITH OVERLOAD PROTECTION

.256"/ 6.50mm Shaft slot

"AMETEK " PART NUMBER, MBJ6302

***12V* *(BI-DIRECTIONAL)* (4 POST) WINCH MOTOR**

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter

(Motor comes with three DE mounting bolts as shown)

REPLACES NUMBERS, 46-4157, 458071
458175, MBJ6201, MBJ6201, MBJ6302S

(APPLICATIONS) (RAMSEY WINCHES)

(The lower terminal is for a ground cable but the terminal is grounded to the metal on the inside of the CE frame)

For a 3 terminal post motor with a ground bolt hole use MBJ6304

(3.4 HP @ MAX/OUTPUT <> 1700 / 3600 RPM)

"AMETEK " PART NUMBER, MBJ6303

***12V* (F & R) (3 POST) MOTOR**

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter

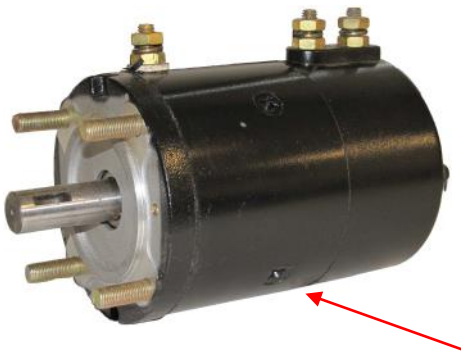
(Comes without DE mounting bolts as shown)

REPLACES NUMBER, MBJ6303S

(APPLICATIONS) (RAMSEY WINCHES)

(Lower side of frame does "not" have a threaded hole for a ground cable bolt)

(3.4 HP @ MAX/OUTPUT <> 1700 / 3600 RPM)



"AMETEK " PART NUMBER, MBJ6304

***12V* (F & R) "DBB" (3 POST) MOTOR**

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter

(Comes with four DE mounting bolts as shown)

REPLACES NUMBERS, 46-4157, 458071, 458175,
W-8933, MBJ6201, MBJ6201, W-9143, MBJ6303 etc.

(APPLICATIONS) (RAMSEY WINCHES)

(Lower side of field frame has threaded hole for ground cable bolt)

(3.4 HP @ MAX/OUTPUT <> 1700 / 3600 RPM)

12V *(F & R)* (3 POST) WINCH MOTOR

(Armature shaft has a flat on each side, 0.380"/ 9.65mm width)

"AMETEK" PART NUMBER, MMW6301

REPLACES, W7639, MMW-6301, 458118, 458135, MMW6301S

(APPLICATIONS) (RAMSEY WINCH'S)

THE SHAFT LENGTH FROM FIELD FRAME IS 1.9"/ 48.26mm
(THE ARMATURE SHAFT DIAMETER IS 0.520"/ 13.20mm)
(THE ARMATURE SHAFT HAS A 0.250"/6.35mm HOLE IN THE END)

(Side of field frame has a threaded hole for ground cable bolt)

(4.5 HP @ MAX/OUTPUT <> 1900 / 3700 RPM)

12V *(BI-DIRECTIONAL)* (4 POST) WINCH MOTOR

3/4" DIAMETER SHAFT

"AMETEK" PART NUMBER, MUR6302

EXTRA HEAVY DUTY REPLACEMENT FOR MOTOR NUMBERS,
W-9143, 458108, W7643, 46-4214, W-9144, 46-4157, MUR6202, MUR6302S
(APPLICATIONS) (REPLACES RAMSEY WINCH MOTORS)
(BRADEN INDUSTRIES, CAM INDUSTRIES, HICKEY EQUIPMENT)
(DESERT DYNAMICS, TULSA WINCH, RAMSEY & PIERCE WINCH)

(THIS IS A 4 POST AMETEK/PRESTOLITE VERSION OF THE W-7643)
(THIS IS A LONG (7.5") HD VERSION OF THE MBJ6302)

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter
(4.5 HP @ MAX/OUTPUT <> 1900 / 4100 RPM)

(The lower terminal post is grounded on the inside of the motor but it can be used to connect a ground cable for the best current flow connections)

12V *(BI-DIRECTIONAL)*(3 POST) WINCH MOTOR

(Armature shaft has a flat on each side, 0.380"/ 9.65mm width)

"AMETEK" PART NUMBER, MUR6303S

REPLACES, 46-4116, MUQ6201, MUQ-6203A, 458103, 458107
MBJ6200, MUQ-6201, MUR6201, W7640, 682164, 458114

(APPLICATIONS) (RAMSEY PLATINUM 9000 WINCH'S)

THE SHAFT LENGTH FROM FIELD FRAME IS 1.562"/ 39.67mm
(THE ARMATURE SHAFT DIAMETER IS 0.520"/ 13.20mm)
THE ARMATURE SHAFT HAS A 0.250"/ 6.35mm HOLE IN THE END)
THIS IS A AMETEK VERSION OF THE W-7640

(Side of field frame has a threaded hole for ground cable bolt)

(4.5 HP @ MAX/OUTPUT <> 1900 / 4100 RPM)

12V *(F & R)* (3 POST) WINCH MOTOR

(Armature shaft has a flat on each side, 0.375"/ 9.52mm width)

"AMETEK" PART NUMBER, MUY6301

(Shaft length is 1.684"/ 42.77mm from shoulder to end of shaft)
THE ARMATURE SHAFT HAS A 0.250"/ 6.35mm HOLE IN THE END)

REPLACES NUMBERS, 681217, 682169,
251283, W-8845N, MUE6214, 18402033, MUY6301S

(APPLICATIONS) (RAMSEY WINCHES, REP8000X)

(Must use DE housing from original Ramsey motor)

(3.1 HP @ MAX/OUTPUT <> 1600 / 3600 RPM)

12V *(F & R)* (3 POST) WINCH MOTOR

(Armature shaft has a flat on each side, 0.375"/ 9.52mm width)

"AMETEK" PART NUMBER, MUY6301C

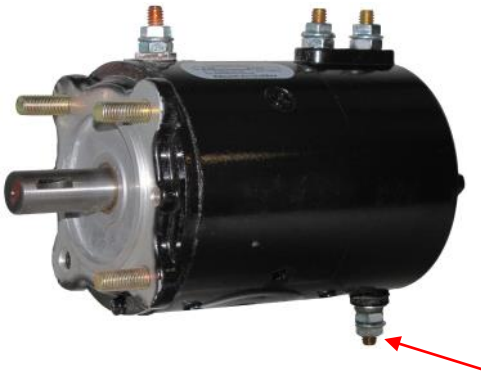
(Shaft length is 1.684"/42.77mm from shoulder to end of shaft)
THE ARMATURE SHAFT HAS A 0.250"/ 6.35mm HOLE IN THE END)

REPLACES NUMBERS, 681217, 682169,
251283, W-8845N, MUE6214, 18402033, MUY6301S

(APPLICATIONS) RAMSEY WINCHES, REP8000X)

(THIS MOTOR IS COMPLETE WITH THE DE FRAME)

(3.1 HP @ MAX/OUTPUT <> 1600 / 3600 RPM)



24V *BI-DIRECTIONAL*

(FORWARD & REVERSE) (4 POST) MOTOR
WITH INLINE TERMINAL POSTS

"WMS" PART NUMBER, W-7724

(APPLICATIONS) (PIERCE, VIME, RAMSEY WINCHES ETC.)

REPLACES, M3300-24V, MMD4001, MMD4401, 30214, 458002, W7724
46-3523, PS534-24V, MUX6302, MMD-4001, & MMD-4401, 458005

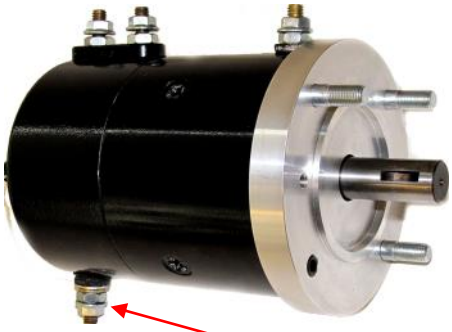
(APPLICATIONS) (PIERCE, VIME AND RAMSEY WINCHES)

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter

(The lower terminal is for a ground cable connection)

(4.5 HP @ MAX/OUTPUT <> 1400 / 4000 RPM)

DOUBLE BALL BEARING



24V "DBB" *BI-DIRECTIONAL*

(FORWARD & REVERSE) (4 POST) MOTOR
WITH INLINE TERMINAL POSTS

"WMS" PART NUMBER, W-7724D

(APPLICATIONS) (PIERCE, VIME, RAMSEY WINCHES ETC.)

REPLACES, MUX6304, MMD4401, 30214, 458002, W7724D
46-3523, MUX6302, MUX6302D, MMD-4001, & MMD-4401, 458005

(APPLICATIONS) (PIERCE, VIME AND RAMSEY WINCHES)

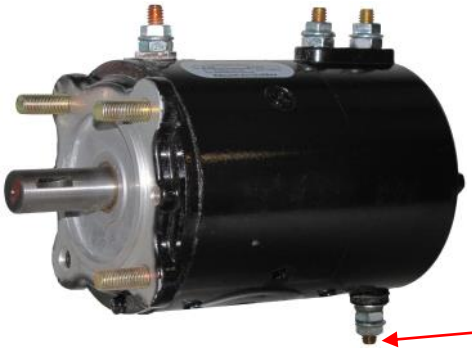
Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter

(The lower terminal is for a ground cable connection)

(4.5 HP @ MAX/OUTPUT <> 1400 / 4000 RPM)

FOR A "24V" MOTOR WITH BALL BEARINGS IN THE CE FRAME AND THE DE FRAME USE "WMS" PART NUMBER

W-7724D



24V *BI-DIRECTIONAL*

(FORWARD & REVERSE) (4 POST) MOTOR
WITH INLINE TERMINAL POSTS

"AMETEK" PART NUMBER, MUX6302

REPLACES, M3300-24V, MMD4001, MMD4401, 30214, 458002, W-7724
46-3523, PS534-24V, PR2-0056-24V, MMD-4001, & MMD-4401, 458005

(APPLICATIONS) (PIERCE, VIME AND RAMSEY WINCHES)

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter

(The lower terminal is for a ground cable connection)

(4.5 HP @ MAX/OUTPUT <> 1400 / 4000 RPM)

24V *BI-DIRECTIONAL*

(FORWARD & REVERSE) (4 POST) MOTOR
WITH INLINE TERMINAL POSTS

"AMETEK" PART NUMBER, MUX6303

REPLACES NUMBERS,
458123, MUX6303S,

(APPLICATIONS)
(PIERCE, VIME AND RAMSEY WINCHES)

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter
(The lower terminal is for a ground cable connection)
(4.5 HP @ MAX/OUTPUT <> 1400 / 4000 RPM)

PICTURE NOT AVAILABLE AT THIS TIME

24V *BI-DIRECTIONAL*

(FORWARD & REVERSE) (4 POST) MOTOR W/OLP
WITH INLINE TERMINAL POSTS

"AMETEK" PART NUMBER, MUX6303A

REPLACES NUMBERS,
458130, MUX6303AS
(APPLICATIONS)
(PIERCE, VIME AND RAMSEY WINCHES)

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter
(The lower terminal is for a ground cable connection)
(4.5 HP @ MAX/OUTPUT <> 1400 / 4000 RPM)

PICTURE NOT AVAILABLE AT THIS TIME

24V *BI-DIRECTIONAL "DBB"*

(FORWARD & REVERSE) (4 POST) MOTOR
WITH INLINE TERMINAL POSTS

"AMETEK" PART NUMBER, MUX6304

REPLACES NUMBERS,
W-7724D, 46-3523, MMD-4001, MMD-4401, 458005, MUX6302

(APPLICATIONS) (PIERCE, VIME AND RAMSEY WINCHES)

Shaft is 1.75"/44.45mm long <> .750"/ 19.05mm Shaft diameter
(Lower side of field frame has threaded hole for ground cable bolt)
(4.5 HP @ MAX/OUTPUT <> 1400 / 4000 RPM)
(This is a "DBB" version of the MUX6302)

“AMETEK” PART NUMBER, MHN7001

***12V* (CW) INS/GROUND HIGH RPM MOTOR**
WITH THE SPX OLD SCHOOL STYLE (9) SPLINE SHAFT

REPLACES NUMBERS, 46-4195, W-9799C, W-9799D

(APPLICATIONS)

(SPX, FENNER LOW RIDER APPLICATIONS)

(3 HP @ MAX/OUTPUT <> 1600 / 4600 RPM)

“AMETEK” PART NUMBER, MZA4001

***12V* (CW) “CHROME” (9) SPLINE MOTOR**

REPLACES NUMBERS,
W-9787-LC, DCM1005, 820150, 61020, 61042, 51016

(APPLICATIONS)

(SPX, FENNER LOW RIDER APPLICATIONS)

"AMETEK" NUMBER, MCW6301

***12V* CCW "SERIES PARALLEL" WOUND MOTOR COMPLETE WITH SWITCH & CONNECTOR**

(MOTOR HAS A .625"/ 15.88mm DIAMETER SHAFT)

REPLACES, MCW6301S, MCW6201, W-7019C, 4223400

(APPLICATIONS) (W.S. DARLEY FIRE EQUIPMENT)

(THE 5/16X18 THRU BOLTS ARE 1"/ 25.4mm PAST THE DE FRAME)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(Shaft is 1.375"/ 34.92mm long from the flat area where thru bolts are)

(4.8 HP @ MAX/OUTPUT <> 2500 / 5100 RPM)

"AMETEK" NUMBER, MUF6301

***24V* CW SERIES WOUND MOTOR W/SWITCH**

(MOTOR HAS A .625"/ 15.88mm DIAMETER SHAFT)

REPLACES NUMBERS, MUF6202, MUF6301, 4223500

(APPLICATIONS) (W.S. DARLEY FIRE EQUIPMENT)

(THE 5/16X18 THRU BOLTS ARE 1"/ 25.4mm PAST THE DE FRAME)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(Shaft is 1.375"/ 34.92mm long from the flat area where thru bolts are)

(1.3 HP @ MAX/OUTPUT <> 600 / 3000 RPM)

"AMETEK" NUMBER, MUF6302

***12V* CCW SERIES WOUND MOTOR**

W/A .625"/ 15.88mm DIAMETER SHAFT W/BAR KEY SLOT

REPLACES NUMBERS,

MDT6026, MUF6201, MHN6201, 46-2100, W-6028, W-6228

(APPLICATIONS) (CATTLE CAKE FEEDER EQUIPMENT)

(Special slow rpm motor for cattle feed equipment)

(THE 1/4X20 THRU BOLTS ARE .59"/ 14.9mm PAST THE DE FRAME)

(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

(Shaft is 1.625"/ 41.275mm long from the area where the thru bolts are)

(1.3 HP @ MAX/OUTPUT <> 600 / 3000 RPM)

"AMETEK" NUMBER, MBD5107D

24V CW/5" DIAMETER MOTOR

REPLACES NUMBERS,
W-5007, MBD-5007, MBD-5007S, MBD-5102, MBD-5107
MBD-5107A, MBD-5107S, 220-0027, 220-0214, 220-0216,
39200158, D468214XWF07A, D468201XWF07A, 392-00347,
39200347, 09406967, 46-2458, 46-2594, 46-2598, W5007
A16428-9, A16428-11, 830514010, 46-2553, W-5007S

(APPLICATIONS)

(LEYMAN, CONCENTRIC, HALDEX, CLARK)

(SCHAEFF, CROWN, ROSS, ACCESS PLATFORM)

(7.5 HP @ MAX/OUTPUT <> 2500 / 5000 RPM)

.256"/ 6.50mm Shaft slot

"AMETEK" NUMBER, MBD5114

24V CCW/5" DIAMETER MOTOR

REPLACES NUMBERS,

MBD-5114, 39200552

(APPLICATIONS)

(CONCENTRIC, HALDEX, MTE HYDRAULICS)

(7.5 HP @ MAX/OUTPUT <> 2500 / 5000 RPM)

(MOTOR HAS EXTENDED SLOT SHAFT ARMATURE THAT IS 0.350"/ 8.63mm OUT PAST THE DRIVE END FRAME)

PICTURE NOT AVAILABLE AT THIS TIME

.256"/ 6.50mm Shaft slot

"AMETEK" PART NUMBER, MMQ6301

12V (F &R) 0.625" DIAMETER SHAFT MOTOR

REPLACES NUMBERS,

46-4071, MMQ-4004, 430-22002, MMQ6301S, W-8938-P

(APPLICATIONS)

(SANTA ANITA, VENCO APPLICATIONS)

Shaft length 1.75"/ 44.4mm with woodruff key slot

(3.3 HP @ MAX/OUTPUT <> 1700 / 3700 RPM)

“AMETEK” PART NUMBER, MZC4001

***12V* (CCW) 3.7” DIAMETER SLOT SHAFT MOTOR**
MOTOR HAS 0.256”/ 6.50mm SLOT

REPLACES NUMBERS,

S201*4608, 39200428, 39200513, W-3528, MZC4001S

(APPLICATIONS)

DURAFORM LTD., MTE HYDRAULICS

(2.3 HP @ MAX/OUTPUT <> 900 / 5000 RPM)

“AMETEK” PART NUMBER, MZE4001

***12V* (F & R) 3.7” DIAMETER SLOT SHAFT MOTOR**
MOTOR HAS 0.256”/ 6.50mm SLOT

REPLACES NUMBERS, W3522, W-3522, 39200522

(APPLICATIONS) MTE HYDRAULICS

(1.6 HP @ MAX/OUTPUT <> 700 / 6500 RPM)

(The MZE4001 use’s a 6902RS bearing at the slot end)

“AMETEK” PART NUMBER, MZE4002

***12V* (F & R) 3.7” DIAMETER SLOT SHAFT MOTOR**
MOTOR HAS 0.256”/ 6.50mm SLOT

REPLACES NUMBERS, MZE4002H, MZE4002S

(APPLICATIONS)

BUCHER AND MONARCH HYDRAULICS

(1.6 HP @ MAX/OUTPUT <> 700 / 6500 RPM)

(The MZE4002 use’s a 6202RS bearing at the slot end)

“AMETEK” PART NUMBER, HYL5006

***12V* (PM) 3.3” DIAMETER MOTOR**
HAS SLOT SHAFT AND 10/24” TERMINAL POST

REPLACES NUMBERS, 2772302, 2772876, HYL-5006
X2772302, 02047880623VT, 0204788062H3Z, BX2772876

(APPLICATIONS)

BOSCH AND HINO BRAKING SYSTEMS

“AMETEK” PART NUMBER, MZF4001

***12V* (F & R) 3.1” DIAMETER SLOT SHAFT MOTOR**
MOTOR HAS 0.256”/ 6.50mm SLOT & 5mm THRU BOLTS

REPLACES, W-8053D, 500205019833, 500205019143

(APPLICATIONS)

BUCHER & MONARCH HYDRAULICS

(1.8 HP @ MAX/OUTPUT <> 1000 / 5800 RPM)

“AMETEK” PART NUMBER, MZG4001

***24V* (F & R) 3.1” DIAMETER SLOT SHAFT MOTOR**
MOTOR HAS 0.256”/ 6.50mm SLOT & 5mm THRU BOLTS

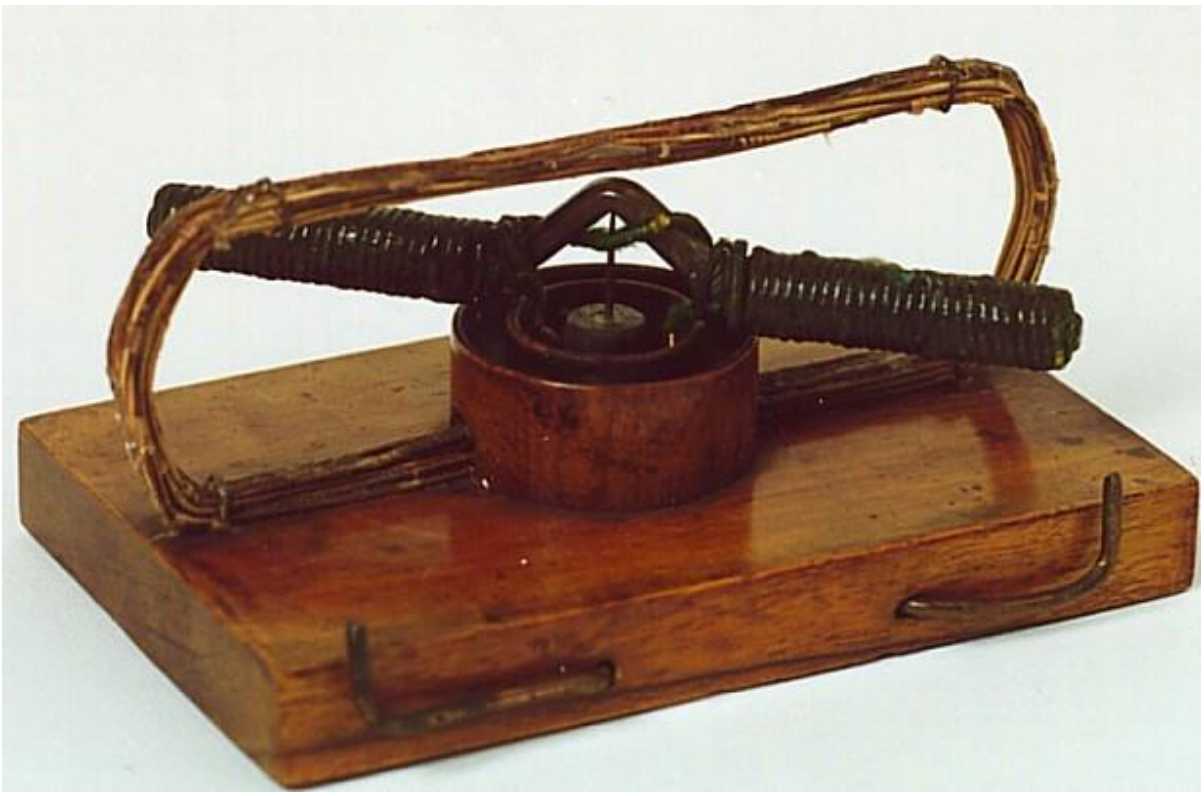
REPLACES NUMBERS, W-8051D, 500205019430

(APPLICATIONS)

BUCHER & MONARCH HYDRAULICS

(1.8 HP @ MAX/OUTPUT <> 1000 / 5800 RPM)

In 1827, Hungarian physicist Ányos Jedlik started experimenting with electromagnetic coils. In1828 Jedlik demonstrated the first device to contain the three main components of practical DC motors: the stator, rotor and commutator.



In 1886, American naval officer and inventor Frank Julian Sprague invented the first practical DC motor that maintained relatively constant speed under variable loads. He became known as the "Father of Electric Traction"

The first electric starter was installed on an Arnold, an adaptation of the Benz Velo, built 1896 in East Peckham, England by electrical engineer H. J. Dowsing.

In 1911, Charles F. Kettering, with Henry M. Leland, of Dayton Engineering Laboratories Company (DELCO) invented and filed U.S. Patent 1,150,523 for the first electric starter in America.

Cadillac was the first car company to installed starters on production models in 1912. These starters also worked as generators once the engine was running, a concept that is now being revived in hybrid vehicles.

*** NEW AMETEK / PRESTOLITE DESIGN ***

THESE GENERATORS ARE "DOUBLE BALL BEARING"

FOR "ALL" GOODALL STARTING UNITS

PART NUMBER, GKR6105A

REPLACES NUMBERS, GKR6105, GKR-6104S, GKR6104A
GKR6101, GKR6104, GKR7101, 10626, W-4663, 45-734, GKR-6101, GKR-6104A
79-373, GKR-6104, GKR-7101, GKR-7101A, GKR-7101B, 79373, GKR-7101S, 45-374, 45-376

(APPLICATIONS) (GOODALL STARTING UNIT GENERATORS)
(REDEVCO PRODUCTS, GOODALL)

THESE "12 VOLT" GENERATORS ARE RATED AS 6 VOLT <> 90 + AMPS
USED ON THE GOODALL STARTING UNITS IN SETS OF
TWO OR FOUR WHICH PRODUCE 180 AMPS + FOR JUMP STARTING

(These are (3) terminal post motor/generators with a "insulated" armature terminal post <> a "insulated" field terminal post <> and a "grounded" brush terminal post)

(The groove cut into the field frame identifies this as a GKR6105)

This 1/4X20 Positive armature terminal post is "insulated" from the field frame

****
Generator components
****
WB-1180 = (2) with posts
****
Brush holder = MDL1064AD
****
Armature number = WA-6105N
****
Pulley = WP-34719
****
With ball bearing CE frame
****

This 10X32 field coil terminal post is "insulated" from the field frame

This 1/4X20 ground armature terminal post is "grounded" to the field frame

WESTERN MOTORS SERVICE CO.

1211 23rd AVE.
ROCKFORD, IL. 61104 USA

Phone number; 800-810-0401 <> 815-986-2214

E-mail; westernmotors@wms1.com <> Fax # 815-986-2566

WESTERN MOTORS IS ONE OF THE LARGEST MANUFACTURER / SUPPLIERS OF SPECIALTY DC MOTORS IN NORTH AMERICA. WESTERN MOTORS IS "OEM" TO MANY MANUFACTURERS AND OFFERS REPLACEMENT 12V THRU 72V DC MOTORS AND COMPONENT PARTS FOR, PUMP MOTORS, WINCH MOTORS, SNOW PLOW MOTORS, SPREADER MOTORS, EMERGENCY VEHICLES, OIL FIELD INDUSTRY, MARINE APPLACATIONS AND MUCH MORE.

WE THANK YOU ALL VERY MUCH FOR YOUR CONTINUED BUSINESS

Sales and support; Rick Sr., Rick Jr., Kim, Janet, Diane, Cindy, Steve, Jeremy, and Marty

Cindy's direct toll free line = 855-772-2170
Marty's direct toll free line = 800-810-4177

<>

(FOR ALL OBSOLETE, SPECIAL, CUSTOM & UNITS THAT ARE NO LONGER AVAILABLE)
WE WILL CONTINUE TO OFFER OUR COMPLETE CUSTOM MANUFACTURING OF NEW MOTORS AND REMANUFACTURING SERVICE FOR OBSOLETE ITEMS AT 1255 23rd AVE, ROCKFORD, IL. 61104

WESTERN MOTOR

WMS

SERVICE COMPANY

CATALOG TEXT_COLOR_INFOMATION
Black = 6V <> Blue = 12V <> Bright Red = 24V <> Green = 36V, 48V or 72V

THIS NEW 2015 CATALOG IS USING DIFFERENT TEXT COLORS TO REPRESENT AT A GLANCE THE DIFFERENT VOLTAGES OF THE PARTICULAR ITEM SUCH AS DC MOTORS, STARTER MOTORS AND THE COMPONENT PARTS OF THE MOTORS, STARTERS etc.

"ALL" 6V ITEMS IN THE CATALOGS, MOTORS AND THE COMPONENT PARTS WILL HAVE THIS "BLACK" TEXT COLOR ABOVE THE PARTICULAR PART NUMBER WHICH WILL SHOW THIS COLOR REPRESENTS A ITEM THAT IS "6V"

"ALL" 12V ITEMS IN THE CATALOGS, MOTORS AND THE COMPONENT PARTS WILL HAVE THIS "BLUE" TEXT COLOR ABOVE THE PARTICULAR PART NUMBER WHICH WILL SHOW THIS COLOR REPRESENTS A ITEM THAT IS "12V"

"ALL" 24V ITEMS IN THE CATALOGS, MOTORS AND THE COMPONENT PARTS WILL HAVE THIS "BRIGHT RED" TEXT COLOR ABOVE THE PARTICULAR PART NUMBER WHICH WILL SHOW THIS COLOR REPRESENTS A ITEM THAT IS "24V"

"ALL" 36V, 48V OR 72V ITEMS IN THE CATALOGS, MOTORS AND THE COMPONENT PARTS WILL HAVE THIS "GREEN" TEXT COLOR ABOVE THE PARTICULAR PART NUMBER WHICH WILL SHOW THIS COLOR REPRESENTS A ITEM THAT IS 36V, 48V OR 72V AND FOR MISC.

BELOW ARE EXAMPLES OF THE CATALOG TEXT_COLOR_INFOMATION SHOWING THE DIFFERENT VOLTAGES AND THEIR ASSOCIATED COLORS
Black = 6V <> Blue = 12V <> Bright Red = 24V <> Green = 36V, 48V or 72V

***6V* (CCW) (4) FIELD SLOT SHAFT MOTOR**
"WMS" PART NUMBER, MZ4186RM
REPLACES NUMBERS, MZ4186, 46-160, MZ-4186
(APPLICATIONS) (J. S. BARNES, HALDEX etc.)
(REMANUFACTURED MOTOR WITH CORE CHARGE)

Motor diameter is 4"

12V* "CW" (DBB) *MOTOR WITH .625" DIA. SHAFT
"WMS" PART NUMBER, W-6020
REPLACES, W6020, 6031, 8076, MDT-6020, MDT-6020S
(APPLICATIONS)
(MONARCH & NU-STAR EQUIPMENT)
(THE RAISED RING DIAMETER ON DRIVE END IS 3"/ 76.2mm)

SHAFT IS 1.5"/ 38.1mm LONG

***24V*(CCW) *DBB,* SLOT SHAFT**
MOTOR WITH *"INSULATED" GROUND* AND WITH
(2) TERMINAL POSTS AT THE COMM END
"WMS" PART NUMBER, W-8263
REPLACES NUMBERS, IM-0137, W-8963, 11216206, W8263, 56021303
(THRU BOLTS ARE AT THE 3 & 9 POSITION)

***48V* (CW) HD (4.5" DIA.) "PM" MOTOR**
AMPLEX SHAFT TYPE MOTOR
"WMS" PART NUMBER, W4BD-2744
REPLACES, 378274, W4BD2744, 2200952, 4BD-02744, 220-0952
(APPLICATIONS) HALDEX BARNES PUMPS
(3.7HP) (OVERALL LENGTH OF MOTOR IS 14.2"/ 360.68mm)

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11.212.394	PG # 223	D482266X7623	PG # 175	IM-0016	PG# 223
11.212.968	PG # 207	D482271X7086RM	PG # 176	IM-0021	PG# 220
11.216.249	PG # 231	D482273X7088	PG # 175	IM-0025	PG # 227
11.216.300	PG# 218	D483206X7127	PG # 180	IM-0028	PG # 32
114-01-4003	PG# 139	D562226X8995RM	PG # 179	IM-0028	PG # 213
114-01-4007	PG # 257	D562270X8782	PG # 177	IM-0029	PG # 31
114-01-4007A	PG# 139	D562297X8214	PG # 181	IM-0029	PG# 213
114-18-4001RM	PG# 139	D562298X8108A	PG # 181	IM-0030	PG # 220
46-240RM	PG#256	D563207X8124RM	PG # 179	IM-0033	PG # 220
46-3647N	PG # 97	E561277X8739	PG # 177	IM-0038	PG # 213
46-3648N	PG # 97	E561281X8087	PG # 182	IM-0039	PG # 32
AL4-4001A	PG # 139	E561294X8752	PG # 179	IM-0039	PG# 213
AMG1626	PG # 193	E561306X8823RM	PG # 176	IM-0041	PG # 214
AMG1626	PG# 231	GKR6105A	PG # 243	IM-0044	PG# 223
B481225X7615A	PG # 178	HYL5006	PG# 279	IM-0045	PG# 223
B481228X7626A	PG # 178	IA-0096	PG # 232	IM-0048	PG# 220
C42D14NC1ARM	PG # 173	IA-0226	PG # 232	IM-0050	PG # 221
C481268X7642	PG # 174	IA-0292	PG # 232	IM-0051	PG # 221
C481276X7737RM	PG # 180	IA-0595	PG # 232	IM-0055	PG #230
C481279X7739ARM	PG# 180	IA-0728	PG # 233	IM-0057	PG # 214
C481340X7739ARM	PG# 180	IA-0757	PG # 233	IM-0077	PG # 224
C4D17DB1DRM	PG # 178	IA-0759	PG # 233	IM-0117	PG # 214
C4D34DB5ARM	PG # 179	IA-0811	PG # 233	IM-0135	PG # 215
C4D34DK4ARM	PG # 182	IA-0875	PG # 234	IM-0136	PG# 215
C561350X8081	PG # 174	IA-0902	PG # 234	IM-0137	PG # 221
D468235XWF12ARM	PG # 153	IA-1058	PG # 234	IM-0139	PG # 215
D468302XWF02A	PG # 6	IA-1095	PG # 234	IM-0140	PG# 216
D468302XWF02A	PG # 174	IM-0002	PG # 212	IM-0142	PG# 216
D482238X7819	PG # 175	IM-0003	PG # 36	IM-0144	PG# 216
D481390X7029	PG # 182	IM-0003	PG # 212	IM-0145	PG# 221
D481581X7147A	PG # 178	IM-0005	PG # 212	IM-0146	PG # 229
D482247X7788	PG # 182	IM-0006	PG # 212	IM-0147	PG # 229
D482256X7864	PG # 179	IM-0007	PG # 219	IM-0152	PG# 209
D482259X7707A	PG # 175	IM-0008	PG # 219	IM-0155	PG # 208
D482263X7054	PG # 176	IM-0012	PG# 219	IM-0156	PG # 208

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IM-0157	PG # 208	IM-0312	PG# 222	IS-1160	PG # 241
IM-0159	PG # 41	IM-0315	PG# 210	IS-9003	PG # 241
IM-0159	PG # 222	IM-0317	PG# 210	IS-9042	PG # 241
IM-0161	PG # 217	IM-0318	PG# 210	IS-9112	PG # 241
IM-0162	PG # 217	IM-0320	PG# 222	IS-9113	PG # 242
IM-0163	PG# 217	IM-0321	PG# 222	IS-9144	PG # 242
IM-0164	PG # 208	IM-0352	PG# 222A	IS-9420	PG # 242
IM-0173	PG # 230	IM-0353	PG# 222A	IS-9428	PG # 242
IM-0178	PG # 77	IM-0378	PG# 226	MBD5001RM	PG # 142
IM-0178	PG# 230	IM-0398	PG# 226	MBD5006RM	PG # 142
IM-0181	PG# 224	IS-0030	PG # 235	MBD5008N	PG # 144
IM-0184	PG# 224	IS-0403	PG # 235	MBD5107D	PG # 142
IM-0186	PG # 37	IS-0483	PG # 235	MBD5107D	PG # 278
IM-0186	PG # 217	IS-0500	PG # 235	MBD5114	PG# 278
IM-0188	PG # 37	IS-0526	PG # 235	MBG4107RM	PG # 254
IM-0188	PG # 218	IS-0553	PG # 236	MBG4108RM	PG # 254
IM-0195	PG # 208	IS-0565	PG # 236	MBG4111RM	PG # 28
IM-0199	PG # 218	IS-0569	PG # 236	MBG4124RM	PG # 255
IM-0200	PG # 218	IS-0624	PG # 236	MBG4125RM	PG# 255
IM-0209	PG # 209	IS-0663	PG # 237	MBG4127RM	PG # 255
IM-0210	PG # 209	IS-0665	PG # 237	MBG4131RM	PG # 252
IM-0211	PG# 209	IS-0687	PG # 237	MBG4134RM	PG# 254
IM-0214	PG # 209	IS-0745	PG # 237	MBG4137RM	PG # 254
IM-0216	PG # 228	IS-0773	PG # 238	MBG4139RM	PG# 255
IM-0217	PG # 228	IS-0841	PG # 238	MBJ6302	PG # 72
IM-0226	PG# 229	IS-1027	PG # 238	MBJ6302	PG# 269
IM-0230	PG# 224	IS-1033	PG # 238	MBJ6303	PG # 72
IM-0241	PG # 225	IS-1045	PG # 239	MBJ6303	PG# 269
IM-0242	PG # 228	IS-1063	PG # 239	MBJ6304	PG # 72
IM-0264	PG #228	IS-1072	PG # 239	MBJ6304	PG# 269
IM-0251	PG # 225	IS-1073	PG # 239	MBR4029RM	PG # 143
IM-0284	PG # 225	IS-1078	PG # 240	MBR4030RM	PG # 143
IM-0310	PG # 225	IS-1090	PG # 240	MBR5102N	PG # 143
IM-0311	PG# 133	IS-1101	PG # 240	MBR5102RM	PG# 143
IM-0311	PG# 210	IS-1158	PG # 240	MBY4015	PG# 122

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MCH6207RM	PG# 253	MHJ6105NR	PG # 249	MUE6301D	PG # 24
MCL6154NR	PG # 108	MHJ7102T	PG# 246	MUE6301D	PG # 263
MCW6301	PG# 277	MHM4001	PG# 193	MUE6302	PG # 19
MDA4001TNR	PG # 253	MHN7001	PG#276	MUE6302	PG # 264
MDR5002N	PG # 154	MHP6101NR	PG #249	MUE6302A	PG # 20
MDR5002RM	PG # 154	MHP6101NS	PG# 249	MUE6302A	PG# 264
MDT6012NR	PG #248	MHP7101TNR	PG # 249A	MUE6304A	PG # 264
MDT6013NR	PG # 248	MHR4002	PG # 151	MUE6305	PG# 264
MDT6101NR	PG # 250	MKA4007RM	PG# 140	MUE6306	PG # 163
MDT6102NR	PG # 251	ML4342 RM	PG# 140	MUE6306	PG # 265
MDT6103NR	PG # 251	MML4001	PG# 206	MUE6307A	PG# 265
MDU6103NR	PG # 251	MMQ6301	PG# 278	MUE6308	PG # 40
MDU7034NR	PG# 249B	MMR5107N	PG# 3	MUE6308	PG # 265
MDU7035NR	PG# 249B	MMR5107N	PG # 152	MUE6308A	PG # 40
MDY6004NR	PG# 246	MMT5101RM	PG# 144	MUE6308A	PG # 265
MDY6129NR	PG# 249B	MMW4003N	PG# 30	MUE6314	PG # 266
MDY6148NR	PG # 248	MMW4003NWD	PG# 29	MUE6316	PG# 266
MDY7010TNR	PG# 246	MMW6301	PG # 76	MUE6317	PG# 266
MDY7048NR	PG # 244	MMW6301	PG# 270	MUF6001TNR	PG # 246
MDY7049NR	PG # 244	MMY6302	PG # 30	MUF6301	PG# 277
MEO6102NR	PG # 248	MMY6302	PG # 261	MUF6302	PG# 277
MEO6105NR	PG # 247	MMY6304	PG # 261	MUG3616RM	PG # 156
MER4001A	PG # 207	MMY6304A	PG # 261	MUG3620RM	PG# 156
MHA6101NR	PG # 247	MMY6305	PG # 25	MUG5101N	PG# 155
MHA6102NR	PG # 247	MMY6305	PG#261	MUP6301	PG # 22
MHA6103NR	PG # 252	MMY6305A	PG # 25	MUP6301	PG # 268
MHA6106NR	PG # 252	MMY6305A	PG#262	MUP6302	PG# 268
MHA6107NR	PG # 252	MMY6306	PG # 30	MUR6302	PG # 73
MHA7007NR	PG # 253	MMY6306	PG #262	MUR6302	PG # 270
MHA7016NR	PG # 250	MPR4002ARM	PG # 153	MUR6303S	PG # 76
MHA7017RM	PG # 256	MTY4001RM	PG# 140	MUR6303S	PG # 270
MHA7019NR	PG # 250	MUE6301	PG# 263	MUV6301A	PG # 93
MHA7020NR	PG # 250	MUE6301A	PG# 263	MUV6301A	PG #268
MHF4004	PG# 201	MUE6301B	PG # 18	MUX6302	PG # 88
MHF5001	PG# 202	MUE6301B	PG # 263	MUX6302	PG # 273

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MUX6303	PG# 274	P56SX102	PG # 204	W-2388112	PG # 180
MUX6303A	PG# 274	P56SX103	PG # 204	W-24362	PG # 148
MUX6304	PG# 274	P56SX123	PG # 204	W-24370	PG# 155
MUY6301	PG # 75	P56SX139	PG # 205	W-26248	PG # 70
MUY6301	PG # 271	P56SX230	PG # 205	W-270670	PG # 137
MUY6301C	PG # 272	P56SX343	PG # 205	W-2809	PG # 158
MUZ6302	PG# 268	P56SX401	PG # 206	W-2924RM	PG # 177
MXC4001RM	PG# 140	P56SX401-5	PG # 206	W-3109N	PG # 185
MZA4001	PG# 276	W-AT120	PG# 126B	W-3110N	PG # 185
MZ4186RM	PG #28	W-AT240	PG# 126B	W-3115N	PG # 185
MZ4201RM	PG # 28	W-V33SR	PG# 138	W-3136P	PG # 185
MZ4210RM	PG # 28	W-06106	PG # 130	W-3228	PG# 126A
MZC4001	PG # 279	W-10181RM	PG# 260B	W-3510MN	PG # 244
MZE4001	PG # 279	W-10703B	PG # 258	W-3522	PG# 227
MZE4002	PG # 279	W-10704A	PG # 258	W-3528	PG # 26
MZF4001	PG# 280	W-10705A	PG # 258	W-3531	PG # 59
MZG4001	PG# 280	W-10706E	PG # 257	W-3533	PG # 59
P56AN227	PG # 199	W-10707F	PG # 257	W-3533	PG # 227
P56AN239	PG # 199	W-10710A	PG # 257	W-3584	PG # 227
P56AN246	PG # 199	W-10710B	PG # 258	W-3589	PG # 26
P56AN247	PG # 199	W-12370	PG# 150	W-36511	PG# 134B
P56AN248	PG# 200	W-1289RM	PG # 177	W-36569	PG# 134B
P56AN335	PG # 200	W-1372RM	PG # 176	W-36611	PG# 37
P56AN343	PG # 200	W-14115	PG# 136	W-36611	PG# 211
P56SX001	PG # 201	W-1427	PG # 191	W-36612	PG # 37
P56SX007	PG # 201	W-14310-12	PG # 38	W-36612	PG# 211
P56SX007WB	PG # 202	W-14310-24	PG # 52	W-36612B	PG # 37
P56SX010	PG # 202	W-1707	PG # 42	W-36752	PG # 134B
P56SX017	PG # 203	W-1711	PG # 8	W-4025	PG # 147
P56SX034	PG # 203	W-1712	PG # 15	W-4025	PG# 226
P56SX034WB	PG# 206	W-1714	PG # 36	W-4028	PG # 147
P56SX038	PG # 203	W-17531	PG # 148	W-4028	PG# 226
P56SX043	PG # 203	W-17531	PG # 189	W-4032	PG # 174
P56SX049	PG # 204	W-1768	PG # 8	W-4033N	PG # 245
P56SX049	PG # 158	W-1770	PG # 16	W-4037	PG # 152

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W-4040	PG # 147	W-5114	PG # 145	W-5635B	PG # 31
W-4042	PG # 147	W-5115	PG # 145	W-5637	PG # 52
W-4050C	PG # 6	W-5120	PG # 145	W-5642	PG# 31
W-4050C	PG # 152	W-5144	PG # 141	W-5692	PG # 167
W-410497	PG # 230	W-5158	PG # 48	W-5694	PG # 169
W-4132N	PG # 245	W-5202	PG # 150	W-5794RM	PG# 260
W-4134B	PG #211	W-5203	PG # 150	W-5798RM	PG# 260
W-4134B	PG# 216	W-5204	PG # 149	W-5799RM	PG# 260
W-4135B	PG# 211	W-5205	PG # 149	W-5800	PG # 64
W-414850	PG# 133	W-5206	PG # 151	W-5812	PG# 46
W-414850	PG# 210	W-5207	PG # 149	W-5812	PG# 63
W-4150	PG # 244	W-5208	PG # 154	W-5824	PG# 64
W-4256	PG # 245	W-5208E	PG # 154	W-5838RM	PG# 260
W-4258	PG # 245	W-5209	PG # 150	W-5981	PG # 162
W-4259	PG # 245	W-5210	PG # 151	W-5981	PG # 231
W-4322	PG # 172	W-5211	PG # 149	W-5984	PG # 170
W-4810B	PG # 141	W-5224	PG# 151	W-6001	PG # 39
W-4816	PG #142	W-5232	PG # 150	W-6002	PG# 111
W-5001	PG #141	W-5236	PG # 144	W-6020	PG # 108
W-5007	PG #141	W-5258	PG #45	W-6021	PG # 106
W-5008	PG #153	W-5304	PG # 155	W-6021B	PG # 106
W-5048N	PG #63	W-5305	PG # 155	W-6022	PG # 103
W-5051N	PG #63	W-5307	PG # 146	W-6024	PG # 207
W-5052N	PG #63	W-5352	PG# 156	W-6025	PG # 207
W-5100H	PG# 155	W-5355	PG # 146	W-6027	PG # 108
W-5101	PG #148	W-5361	PG # 149	W-6028	PG # 125
W-5104	PG #144	W-5407	PG # 142	W-6029	PG # 108
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W-5106	PG# 3	W-5437	PG# 156	W-6078	PG # 123
W-5106	PG #152	W-5456	PG # 146	W-6102C	PG# 27
W-5106B	PG #3	W-5610	PG # 153	W-6104	PG # 18
W-5106B	PG #152	W-5618A	PG # 67	W-6104C	PG# 27
W-5107	PG #144	W-5621	PG # 86	W-6105	PG # 18
W-5109	PG #141	W-5623	PG # 65	W-6109	PG # 45

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W-6118	PG # 51	W-6418	PG# 55	W-6564	PG# 90
W-6123	PG # 110	W-6418	PG# 121	W-6570	PG # 120
W-6148	PG# 61	W-6420	PG # 107	W-6575N	PG # 244
W-6150	PG # 61	W-6424	PG # 83	W-6593	PG # 123
W-6151	PG# 56	W-6430	PG # 172	W-6595	PG# 108
W-6152	PG# 61	W-6501	PG # 91	W-6599	PG # 116
W-6153	PG# 61	W-6503	PG# 112	W-6624	PG # 90
W-6154	PG# 61	W-6503B	PG # 112	W-6633	PG# 74
W-6206	PG# 164	W-6507	PG# 121	W-6638	PG # 123
W-6206D	PG # 164	W-6509C	PG # 115	W-6720	PG # 105
W-6212	PG # 40	W-6510	PG # 13	W-6738	PG # 94
W-6212C	PG # 40	W-6510	PG# 117	W-6740	PG # 98
W-6216	PG # 116	W-6512	PG # 115	W-6742	PG # 107
W-6228	PG # 125	W-6514	PG # 120	W-6745	PG # 107
W-6247	PG# 89	W-6516	PG # 184	W-6777	PG # 51
W-6294D	PG # 161	W-6519	PG # 117	W-6780	PG # 51
W-6302	PG # 111	W-6520	PG # 113	W-6800	PG # 158
W-6303	PG# 33	W-6522	PG # 113	W-6801E	PG# 95
W-6303	PG# 111	W-6523	PG # 110	W-6804	PG # 166
W-6306	PG# 164	W-6526	PG # 107	W-6832	PG # 158
W-6306D	PG # 164	W-6536	PG # 184	W-6838	PG # 94
W-6307	PG # 116	W-6539	PG# 109	W-6850	PG # 64
W-6311	PG # 110	W-6542	PG # 117	W-6898	PG # 125
W-6314	PG # 84	W-6552	PG # 118	W-6901	PG # 93
W-6320	PG # 83	W-6553	PG # 118	W-6904	PG # 98
W-6322	PG # 83	W-6554	PG # 55	W-6920	PG #172
W-6324	PG # 84	W-6554	PG # 119	W-6922	PG # 105
W-6326	PG# 122	W-6555	PG # 51	W-6924	PG # 105
W-6332	PG # 83	W-6555	PG # 121	W-6924	PG # 124
W-6333	PG# 80	W-6557	PG # 119	W-6929	PG # 173
W-6356	PG# 95	W-6559	PG # 115	W-6930	PG # 104
W-6384	PG # 215	W-6560	PG # 55	W-6930	PG # 124
W-6400	PG# 90	W-6560	PG# 119	W-6932	PG # 104
W-6410	PG # 13	W-6562	PG# 91	W-6973	PG # 109

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W-7004	PG# 106	W-7690G	PG # 11	W-8009	PG# 132
W-7015	PG # 101	W-7692G	PG # 15	W-8010	PG # 130
W-7018	PG # 106	W-7698	PG # 91	W-8011	PG # 130
W-7019	PG # 114	W-7724	PG# 88	W-8012	PG # 162
W-7019C	PG # 114	W-7724	PG# 273	W-8013B	PG # 23
W-7020	PG # 113	W-7724D	PG# 88	W-8013B	PG # 168
W-7020D	PG# 114	W-7724D	PG# 273	W-8013C	PG # 23
W-7028	PG # 125	W-7733	PG # 80	W-8013C	PG # 231
W-7030M	PG# 96	W-7789	PG #6	W-8015	PG # 160
W-7031M	PG # 98	W-7789	PG # 195	W-8018	PG # 160
W-7101	PG # 98	W-7864	PG # 32	W-8020	PG # 104
W-7224	PG# 62	W-7864A	PG # 32	W-8023D	PG # 131
W-73462	PG# 126B	W-7864A	PG# 214	W-8024D	PG # 126
W-7434	PG # 172	W-7865	PG # 32	W-8024D	PG # 169
W-7606	PG # 69	W-7902	PG # 183	W-8026D	PG # 131
W-7608	PG # 66	W-7905	PG # 183	W-8028D	PG # 131
W-7608	PG# 229	W-7912	PG # 67	W-8029	PG # 134
W-7610	PG# 95	W-7912A	PG # 67	W-8030D	PG # 131
W-7621	PG # 86	W-7923D	PG# 65	W-8031D	PG # 136
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W-7626	PG # 91	W-7932	PG# 65	W-8032D	PG# 167
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W-7633	PG # 80	W-7939	PG # 81	W-8038	PG # 126
W-7634	PG # 69	W-7941	PG # 77	W-8039	PG # 126
W-7639	PG # 76	W-7942	PG #77	W-8040RM	PG # 181
W-7640	PG # 76	W-7943	PG # 71	W-8041	PG # 207
W-7641	PG # 68	W-7944	PG # 86	W-8042	PG# 126
W-7642	PG# 90	W-7945	PG# 89	W-8044	PG # 134
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W-7656	PG # 87	W-7948	PG# 78	W-8046	PG # 129
W-7657	PG # 87	W-8002D	PG # 137	W-8048	PG # 59
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W-8057L	PG#128	W-8214	PG # 48	W-8490	PG # 196
W-8058	PG# 135	W-8224	PG # 105	W-8524	PG # 43
W-8060D	PG# 132	W-8235	PG # 46	W-8524	PG # 153
W-8060L	PG# 132	W-8235A	PG# 46	W-8526	PG # 45
W-8060SG	PG # 132	W-8235C	PG# 45	W-8526	PG # 167
W-8061	PG# 126A	W-8238	PG# 24	W-8528	PG# 56
W-8065	PG # 133	W-8240	PG# 46	W-8532	PG # 43
W-8067	PG# 134	W-8244	PG # 14	W-8533B	PG # 9
W-8069	PG# 126A	W-8256	PG # 84	W-8534B	PG # 9
W-8077	PG # 130	W-8260	PG# 54	W-8535	PG # 50
W-8075D	PG# 126A	W-8263	PG # 60	W-8538	PG # 97
W-8078	PG # 130	W-8263A	PG # 60	W-8547	PG # 43
W-8085	PG # 133	W-8273	PG # 13	W-8578	PG # 93
W-8085	PG # 165	W-8273	PG # 196	W-8599	PG # 93
W-8080	PG# 133	W-8274	PG# 35	W-8620	PG # 27
W-8090	PG # 129	W-8275	PG# 35	W-8648	PG # 27
W-8091	PG # 129	W-8304	PG# 40	W-8649	PG # 27
W-8091HD	PG# 129	W-8310	PG # 99	W-8700	PG# 96
W-8092D	PG # 67	W-8311	PG # 99	W-8701	PG #9
W-8092D	PG# 128	W-8312	PG # 100	W-8703	PG # 82
W-8101	PG # 62	W-8313	PG #100	W-8711	PG# 95
W-8137B	PG # 104	W-8314WS	PG# 102	W-8727	PG # 91
W-8163RM	PG # 174	W-8314	PG # 101	W-8735	PG # 41
W-8173	PG # 138	W-8315	PG# 100	W-8735A	PG # 41
W-8174RM	PG # 181	W-8317	PG# 100	W-8736A	PG # 41
W-8175	PG# 138	W-8322	PG # 105	W-8743	PG# 96
W-8182	PG# 134A	W-8344	PG# 62	W-8745	PG # 16
W-8184	PG# 134A	W-8352A	PG# 36	W-8747WD	PG # 44
W-8186	PG# 134A	W-8420	PG # 159	W-8752A	PG # 36
W-8186A	PG# 134A	W-8422	PG # 159	W-8760	PG# 20
W-8206	PG # 14	W-8424	PG# 89	W-8767	PG # 16
W-8210	PG # 38	W-8430	PG # 159	W-8767A	PG # 16
W-8213	PG# 23	W-8444	PG# 56	W-8770	PG # 16

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W-8775	PG # 34	W-8843D	PG # 29	W-8908D	PG # 170
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W-8776A	PG # 34	W-8845N	PG # 75	W-8911B	PG # 19
W-8776C	PG# 34	W-8845RM	PG # 75	W-8911C	PG # 19
W-8778	PG #12	W-8847	PG # 137	W-8911D	PG # 19
W-8787	PG # 6	W-8849N	PG # 137	W-8911G	PG # 20
W-8787	PG # 195	W-8851	PG # 47	W-8911K	PG # 20
W-8799D	PG # 18	W-8853	PG # 9	W-8912	PG # 162
W-8801	PG # 9	W-8854	PG # 53	W-8913	PG # 78
W-8801	PG # 197	W-8856	PG # 84	W-8915	PG # 85
W-8803	PG # 127	W-8857	PG # 26	W-8917	PG # 58
W-8804D	PG # 68	W-8858	PG # 163	W-8918D	PG # 50
W-8804D	PG# 128	W-8858	PG# 193	W-8919	PG # 48
W-8805	PG # 160	W-8859	PG # 53	W-8920	PG # 42
W-8809	PG # 126B	W-8868	PG # 50	W-8920A	PG # 42
W-8810	PG # 78	W-8869	PG # 53	W-8920D	PG # 42
W-8814C	PG# 121	W-8870	PG # 47	W-8920E	PG # 42
W-8815	PG # 160	W-8871	PG # 49	W-8921D	PG # 85
W-8817	PG # 58	W-8872	PG # 49	W-8922	PG # 48
W-8818N	PG # 66	W-8875	PG # 33	W-8922D	PG # 48
W-8824-P	PG # 103	W-8876	PG # 97	W-8923D	PG # 65
W-8825	PG # 79	W-8877	PG # 12	W-8924	PG # 50
W-8827	PG # 78	W-8878	PG # 12	W-8925	PG # 79
W-8832	PG # 135	W-8887	PG # 6	W-8925D	PG # 79
W-8834	PG #14	W-8887	PG # 195	W-8926D	PG # 85
W-8836	PG # 184	W-8890D	PG # 197	W-8927	PG # 70
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W-8838-P	PG # 103	W-8901-BC	PG # 92	W-8930B	PG # 124
W-8839	PG# 109	W-8901-E	PG # 92	W-8930B	PG # 173
W-8841N	PG # 71	W-8901-P	PG # 92	W-8931	PG # 136
W-8841N	PG# 128	W-8902	PG # 8	W-8932	PG # 167
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W-8939-P	PG # 109	W-8973D	PG# 10	W-9008	PG # 33
W-8940	PG # 161	W-8975	PG # 33	W-9035	PG # 44
W-8941	PG # 68	W-8975B	PG# 33	W-9051	PG # 47
W-8941D	PG # 68	W--8976-P	PG # 93	W-9063	PG # 58
W-8942	PG # 102	W-8977	PG # 10	W-9095RM	PG# 260B
W-8943D	PG # 30	W-8978	PG # 43	W-9104	PG # 18
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W-8944	PG # 35	W-8979	PG # 58	W-9116	PG # 82
W-8945A	PG # 29	W-8980	PG # 35	W-9116	PG # 123
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W-8947B	PG # 44	W-8988C	PG # 2	W-9138	PG # 81
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W-8949	PG # 54	W-8990D	PG # 11	W-9156	PG # 87
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W-8955	PG # 53	W-8992D	PG # 15	W-9193N	PG # 259
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W-8959	PG # 53	W-8994	PG # 161	W-9228	PG# 171
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W-8961	PG # 57	W-8995	PG # 10	W-9229D	PG # 171
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W-8963B	PG # 60	W-8999B	PG # 17	W-9234	PG# 89
W-8963C	PG # 60	W-8999C	PG # 17	W-9238	PG # 112
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W-9459	PG # 54	W-9895	PG # 7	W4BC-0781	PG # 188
W-9459D	PG # 54	W-9898	PG # 112	W4BC-0782	PG # 188
W-9724-P	PG # 7	W-98985	PG # 157	W4BC-1368	PG # 188
W-9734D	PG # 38	W-98985	PG # 187	W4BC-1428	PG # 188
W-9734D	PG# 197	W-98987	PG # 157	W4BC-1571	PG # 189
W-9743A	PG# 25	W-9901C	PG # 92	W4BC-1602	PG # 189
W-9743D	PG # 25	W-9924	PG# 96	W4BC-1605	PG # 189
W-9787	PG # 1	W-9925	PG # 79	W4BC-1765	PG # 190
W-9787	PG # 162	W-9926	PG # 85	W4BC-1988	PG # 190
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W-9787-LG	PG # 5	W-9988	PG # 198	W4BC-3064	PG# 191
W-9787-P	PG # 2	W-9988B	PG # 198	W4BD-0355	PG # 191
W-9789	PG # 1	W-9993	PG # 21	W4BD-2079	PG # 192
W-9789	PG# 194	W-9993A	PG # 21	W4BD-2267	PG # 192
W-9789-LG	PG # 5	W-9993D	PG # 21	W4BD-2267A	PG # 192
W-9789A	PG # 2	W-9993K	PG# 21	W4BD-02273	PG # 192
W-9789B	PG # 2	W-9995D	PG# 26	W4BD-2744	PG # 192
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W-9793	PG # 3	W4BA-1426	PG # 187		
W-9794-P	PG # 7	W4BB-0440	PG # 186		
W-9795	PG # 3	W4BB-1367	PG # 186		
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W-9799C	PG # 4	W4BB-1601	PG # 157		
W-9799C	PG # 198	W4BB-1601	PG # 187		
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