MOTOR: 2P-238-0000-STD-S0/0-00-DN/DN/DN-SC-CW-000/000L/000K-000/000-0/0-W00-0000

SYSTEM TYPE:
2P = Two Driven Pivots
RCV = 2P with RCV components

MOTOR PART NUMBER:
235-1001 = Dynamic Park, 12V
235-1002 = Dynamic Park, 24V
238-1002 = Dynamic Park, 12V
238-1003 = Dynamic Park, 24V

ITEM 14
235-1001
235-1002
238-1002
238-1003

238/235 Motor on Bracket

Dimensions are in:
INCHES

OVALS ARE FOR INCOMING INSPECTION CHECKING PROCESSES

UNLESS OTHERWISE SPECIFIED TOLERANCES IN INCHES MM
1 PLACE DEC. = N/A ±0.25
2 PLACE DEC. = ±0.01 ±0.13
3 PLACE DEC. = ±0.005 ±0.08
4 PLACE DEC. = ±0.0025 N/A
ANGULAR DIM. = ±1° ±1°

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Title/Name
Assy, Wiper System, 2P

Part Number
238-0000

Finish Specification
N/A

Material Specification
N/A

Design Engineer
B.O. 115

Date
4/4/2011

4/2012

2/30/2012
SHAFT: 2P-238-0000-STD-S0/0-00-DN/DN/DN-SC-CW-000/000L/000K-000/000-0/0-W00-0000

**ARM INTERFACE:**
- STD = Tapered Knurl: 407-1023 / 407-1010
- HD = Straight Knurl: N/A
- STC = Tapered Knurl: 414-1167

**LEVER:**
- M = "Monkey Paw": 419-1214 - Must use O pin type
- S = "Spoon": 419-1221 - Must use D or T pin type
- O = "Overmolded": N/A

**PIN POSITION:**
- 1 = Pin Position 1
- 2 = Pin Position 2
- 3 = Pin Position 3

**SHAFT LENGTH:**
- 40 = bulkhead thickness: < 6mm [0.25""] 421-1036
- 75 = bulkhead thickness: < 33mm [1.25""] 421-1034
- 120 = bulkhead thickness: < 83mm [3.25""] 421-1035

**PIN TYPE:**
- D = "Default": 416-1052
- T = "Tall": 416-1053
- O = "Original": 416-1048
- S = "Spherical": 416-1067

**ORIENTATION:**
- N = Normal
- R = Reverse

---

**PROJECT:**
- 818-0115

**CHECKED:**
- 4/2/2011

**APPROVED:**
- 3/30/2012

**MATERIAL SPECIFICATION:**
- N/A

**FINISH SPECIFICATION:**
- N/A

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**PART NUMBER:**
- 238-0000

**REVISION:**
- 1

**SHEET:**
- 3 OF 7

**DIMENSIONS ARE IN MILLIMETERS (INCHES)**

---

**OVALS ARE FOR INCOMING INSPECTION CHECKING PROCESSES**

**TOLERANCES IN MILLIMETERS (INCHES):**
- 1st PLACE DEC. (N/A) ±0.25
- 2d PLACE DEC. ±0.01 ±0.13
- 3d PLACE DEC. ±0.005 ±0.08
- 4th PLACE DEC. ≤0.0025 (N/A)

**ANGULAR DIM. ±1° ±1°**

**DO NOT SCALE DRAWING WORK TO GIVEN DIMENSIONS**
DRIVE ARM: 2P-238-0000-STD-S0/0-00-DN/DN/DN-SC-CW-000/000L/000K-000/000-0/0-W00-0000

DRIVE ARM: ITEM 17
S = "Spoon" 419-1220
C = "Cupped" 419-1234

PIN POSITION:
C = Pin Position C

PARK DIRECTION:
CW = Clock Wise Park
CCW = Counter Clock Wise Park
CELL SETUP: 2P-238-0000-STD-S0/0-00-DN/DN/DN-SC-CW-000/000L/000K-000/000-0/0-W00-0000

CUT LENGTH:
000 = Stringer Cut Length (mm)
/000 = Side A Link Cut Length (mm)
/000 = Side B Link Cut Length (mm)

LINK TYPE:
K = Normal, Matching (2P)
L = Normal, Different (2P)
M = Reversed, Matching (2P)
N = Reversed, Different (2P)
P = Normal, Matching (RCV)
Q = Normal, Different (RCV)

PIVOT LOCATIONS:
000 = Side A Pivot to Bracket (mm)
/000 = Bracket to Side B Pivot (mm)

BEND ANGLES:
0 = Side A Bend Angle (degrees)
/0 = Side B Bend Angle (degrees)

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STRINGER CUT LENGTH

PIVOT LOCATION "A"

PIVOT LOCATION "B"

LINK "A" CUT LENGTH

LINK "B" CUT LENGTH

BEND "A"

BEND "B"

---

Dimensions are in:
MM (INCHES)

OVALS ARE FOR INCOMING INSPECTION CHECKING PROCESSES
UNLESS OTHERWISE SPECIFIED

TOLERANCES IN
1 PLACE DEC. = ±0.25
2 PLACE DEC. = ±0.01
3 PLACE DEC. = ±0.005
4 PLACE DEC. = ±0.002
ANGULAR DIM. = ±1°
DO NOT SCALE DRAWING WORK TO GIVEN DIMENSIONS

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Title/Name
Assy, Wiper System, 2P

Part Number
238-0000

Revision
1

Sheet
5 OF 7

3/30/2012
HARDWARE: 2P-238-0000-STD-S0/0-00-DN/DN/DN-SC-CW-000/000L/000K-000/000-0/0-W00-0000

WET or DRY:
W = Wet
D = Dry
00 = Last Two Digits of Wet Kit Number

ITEM 7
[See 313-10xx Series Part Numbers]

MOUNTING HARDWARE:
0000 = Last Four Digits of Kit Number

ITEM 27
[See 113-xxxx Series Part Numbers]

Place Hose Tee on Longest Section of Stringer

Mounting Hardware Kit Shipped Individually Packaged

Dimensions are in:
INCHES (MILLIMETERS)

Project 818-0115
Designer
Checked
Approved
Material Specification

N/A

Finish Specification

N/A

OVALS ARE FOR INCOMING INSPECTION CHECKING PROCESSES
UNLESS OTHERWISE SPECIFIED TOLERANCES IN INCHES MM
1 PLACE DEC. = N/A ±0.25
2 PLACE DEC. = ±0.01 ±0.13
3 PLACE DEC. = ±0.005 ±0.08
4 PLACE DEC. = ±0.0025 N/A
ANGULAR DIM. = ±1° ±1°
DO NOT SCALE DRAWING WORK TO GIVEN DIMENSIONS

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Title/Name
Assy, Wiper System, 2P

Part Number 238-0000
Revision 1
Sheet 6 OF 7

3/30/2012
*Not included on the 2P-RCV
**Only Included on the 2P-RCV
***Only Included on wet systems

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