



Lit. No. 64291  
June 15, 2004



# 8-1/2' and 9-1/2' MVP® Snowplow Service Parts for Hydraulic Assemblies with Isolation Module Electrical System





# MVP® SNOWPLOW ASSEMBLY PARTS LIST

## HYDRAULICS BOX NO. 64777

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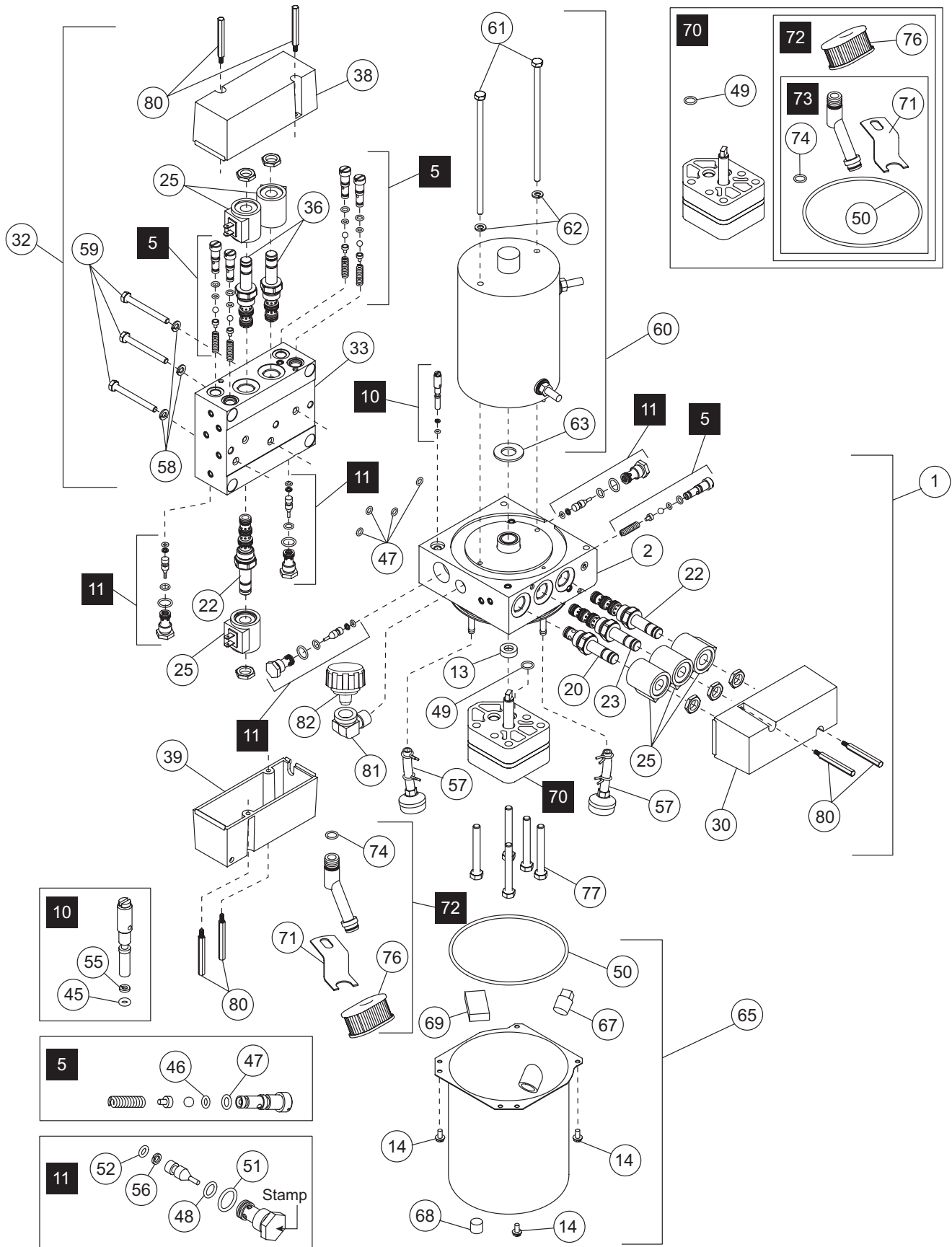
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| HYDRAULICS BOX NO. 64777 |     |                             |
|--------------------------|-----|-----------------------------|
| Part                     | Qty | Description                 |
| 56786                    | 1   | HYDRAULIC UNIT - MVP        |
| 56750                    | 2   | RAM ASSEMBLY, 2 X 11 DA     |
| 56538K                   | 1   | RAM ASSEMBLY, 1-1/2 X 8 KIT |
| 64292                    | 1   | BOLT BAG ASSY LARGE         |
| 64280                    | 1   | BOLT BAG SMALL              |

# MVP® SNOWPLOW ASSEMBLY PARTS LIST

## HYDRAULICS BOX NO. 64777

### FloStat® Hydraulic Unit - MVP® Parts Diagram



# MVP® SNOWPLOW ASSEMBLY PARTS LIST

## HYDRAULICS BOX NO. 64777

### FloStat® Hydraulic Unit - MVP Parts List

| 56786 HYDRAULIC UNIT - MVP                                    |         |                                   |                                                               |      |                                                                       |
|---------------------------------------------------------------|---------|-----------------------------------|---------------------------------------------------------------|------|-----------------------------------------------------------------------|
| Item                                                          | Part    | Qty                               | Description                                                   | Item | Part Qty Description                                                  |
| 1                                                             | 66773-1 | 1                                 | PRIMARY VALVE MANIFOLD ASSY<br>W/ CARTRIDGES, COILS, COVERS   | 49   | 56274 2 O-RING -013                                                   |
| 2                                                             | 66775-1 | 1                                 | PRIMARY MANIFOLD ASSY<br>W/O CARTRIDGES, COILS, COVERS        | 50   | 66519 1 O-RING 2-250                                                  |
| 5                                                             | 49138K  | 3                                 | RELIEF VALVE KIT - 2 SETS                                     | 51   | 56569 4 O-RING -906                                                   |
| 10                                                            | 56662   | 1                                 | QUILL ASSY                                                    | 52   | 56776 4 O-RING -008, RED, 70 DUROMETER                                |
| 11                                                            | 66785   | 4                                 | PILOT - CHECK VALVE KIT                                       | 55   | 56315 1 BACK-UP RING -006                                             |
| 13                                                            | 66515   | 1                                 | PUMP SHAFT SEAL                                               | 56   | 66628 4 BACK-UP RING -008                                             |
| 14                                                            | 66607   | 4                                 | 10-24X5/16 MACHINE SCREW                                      | 57   | 66405 2 RETURN SCREEN ASSY                                            |
| 20                                                            | 49227K  | 1                                 | CARTRIDGE 20 W/JAM NUT                                        | 58   | 91201 3 1/4 SPRING LOCK WASHER                                        |
| 22                                                            | 49229K  | 2                                 | CARTRIDGE 40 W/JAM NUT                                        | 59   | 66597 3 1/4-20X2-1/2 HEX CAP SCREW G5                                 |
| 23                                                            | 66783K  | 1                                 | CARTRIDGE 43 W/JAM NUT                                        | 60   | 21500 1 MOTOR ASSY 4-1/2"<br>(See next page for motor service parts.) |
| 25                                                            | 49230K  | 6                                 | COIL W/SPADE TERMINALS                                        | 65   | 21830 1 RESERVOIR KIT MVP                                             |
| 30                                                            | 56763   | 1                                 | COVER ASSY V-PLOW 4-4-2                                       | 67   | 92079 1 PLUG 3/8 NPTF                                                 |
| 32                                                            | 66771-1 | 1                                 | SECONDARY VALVE MANIFOLD ASSY<br>W/ CARTRIDGES, COILS, COVERS | 68   | 92095 1 PLUG 1/4 NPTF HX SO THREAD SEAL                               |
| 33                                                            | 66772-1 | 1                                 | SECONDARY MANIFOLD ASSY<br>W/O CARTRIDGES, COILS, COVERS      | 69   | 73897 1 MAGNET                                                        |
| 36                                                            | 49228K  | 2                                 | CARTRIDGE 30 W/JAM NUT                                        | 70   | 21501 1 HYD PUMP KIT - FS                                             |
| 38                                                            | 66620   | 1                                 | COVER ASSY V-PLOW 3-3                                         | 71   | - 1 RETAINER CLIP                                                     |
| 39                                                            | 66621   | 1                                 | COVER ASSY V-PLOW 4 WAY                                       | 72   | 66763 1 INLET FITTING / FILTER KIT                                    |
| 45                                                            | 25622   | 1                                 | O-RING -006                                                   | 73   | 28479 1 INLET FITTING KIT                                             |
| 46                                                            | 55371   | 5                                 | O-RING -008, 90 DUROMETER (black)                             | 74   | 56416 1 O-RING -014                                                   |
| 47                                                            | 25731   | 9                                 | O-RING -010                                                   | 76   | 56789 1 SUCTION FILTER                                                |
| 48                                                            | 66627   | 4                                 | O-RING -011 (CHECK VALVES<br>STAMPED V4 AND LOWER)            | 77   | 90073 5 5/16-18X2-1/4 HEX CAP SCREW G5                                |
|                                                               | 25730   | 4                                 | O-RING -012 (CHECK VALVES<br>STAMPED V5 AND HIGHER)           | 80   | 56580 6 SCREW, STANDOFF ZYC                                           |
|                                                               |         |                                   |                                                               | 81   | 21726 1 ELBOW                                                         |
|                                                               |         |                                   |                                                               | 82   | 21727-2 1 BREATHER, PRESSURE CONTROL                                  |
|                                                               |         |                                   |                                                               | NS   | 49258 1 SEAL KIT - CARTRIDGE 20                                       |
|                                                               |         |                                   |                                                               | NS   | 49259 1 SEAL KIT - CARTRIDGE 30,31,33,40,43                           |
|                                                               |         |                                   |                                                               | NS   | 56657 1 O-RING AND BACK-UP RING KIT-SOL                               |
| 56657 - O-RING AND BACK-UP RING KIT - SOL                     |         |                                   |                                                               |      |                                                                       |
| Universal kit - not all contents are used in MVP application. |         |                                   |                                                               |      |                                                                       |
| 25622                                                         | 1       | O-RING -006                       | 25620                                                         | 1    | O-RING -115                                                           |
| 55371                                                         | 5       | O-RING -008, 90 DUROMETER (black) | 25618                                                         | 1    | O-RING -216                                                           |
| 56776                                                         | 4       | O-RING -008, RED, 70 DUROMETER    | 66028                                                         | 1    | O-RING -226                                                           |
| 25731                                                         | 9       | O-RING -010                       | 26784                                                         | 4    | O-RING -903                                                           |
| 66627                                                         | 4       | O-RING -011                       | 56569                                                         | 4    | O-RING -906                                                           |
| 25730                                                         | 6       | O-RING -012                       | 66519                                                         | 1    | O-RING 2-250                                                          |
| 56274                                                         | 1       | O-RING -013                       | 56315                                                         | 2    | BACK-UP RING -006                                                     |
| 56416                                                         | 1       | O-RING -014                       | 66628                                                         | 4    | BACK-UP RING -008                                                     |

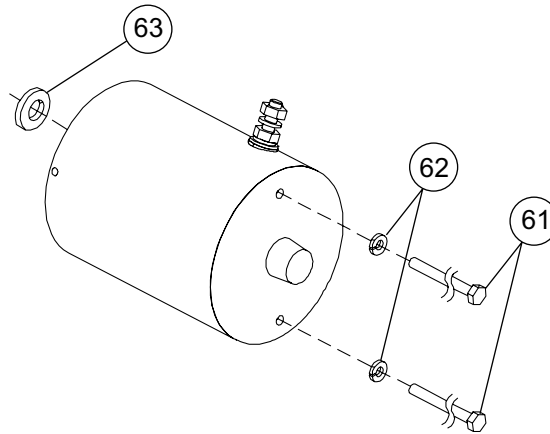
For a list of abbreviations, see page 4.

# MVP® SNOWPLOW ASSEMBLY PARTS LIST

## HYDRAULICS BOX NO. 64777

### Motor Manufacturer Identification and Service Parts

Photo shows terminal position and end cap for brand identification.  
(Motor shown with flange. Flange is not used in MVP applications.)



| PRESTOLITE 2 TERMINAL |       |     |                                                             |
|-----------------------|-------|-----|-------------------------------------------------------------|
| Item                  | Part  | Qty | Description                                                 |
| 61                    | 56621 | 1   | THRU-BOLT KIT<br>(Includes cap screws and special washers.) |
| 63                    | 56641 | 1   | THRUST WASHER KIT                                           |
| NS                    | 56638 | 1   | END CAP W/ O-RING                                           |
| NS                    | 56622 | 1   | BRUSH KIT –<br>PRESTOLITE 2 TERMINAL                        |



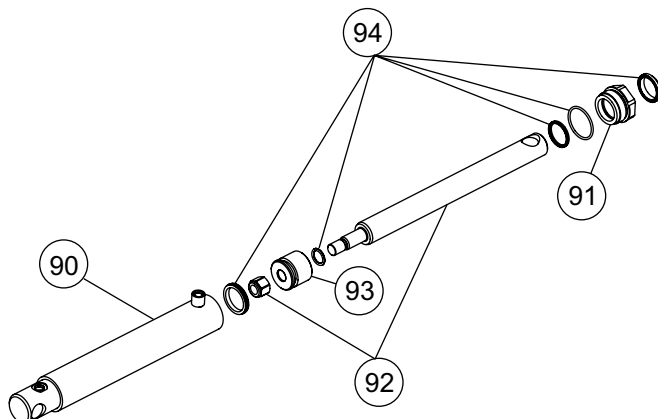
| BOSCH 2 TERMINAL |       |     |                                         |
|------------------|-------|-----|-----------------------------------------|
| Item             | Part  | Qty | Description                             |
| 61               | 21508 | 2   | 1/4-20 X 6-1/4 HEX CAP<br>SCREW G5      |
| 62               | 91201 | 2   | 1/4 SPRING LOCK WASHER                  |
| 63               | 21535 | 1   | WASHER, FIBER THRUST 5/8<br>(drive end) |
| NS               | 56620 | 1   | BRUSH KIT –<br>BOSCH 2 TERMINAL         |

For a list of abbreviations, see page 4.

# MVP® SNOWPLOW ASSEMBLY PARTS LIST

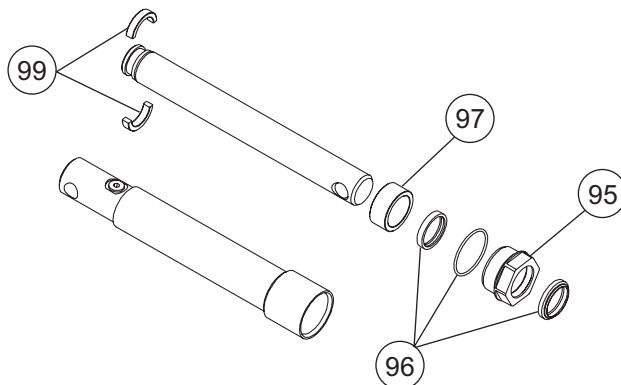
## HYDRAULICS BOX NO. 64777

### Angle Ram Diagram and Parts List



| 56750 – RAM ASSEMBLY 2 X 11 DA |       |     |                          |
|--------------------------------|-------|-----|--------------------------|
| Item                           | Part  | Qty | Description              |
| 90                             | 56749 | 1   | CYLINDER ASSY, 2 X 11 DA |
| 91                             | 56555 | 1   | GLAND NUT POLYPAC SEAL   |
| 92                             | 56797 | 1   | ROD KIT, 2 X11 DA RAM    |
| 93                             | 56677 | 1   | SEAL KIT W/ PISTON 2" DA |
| 94                             | 56669 | 1   | SEAL KIT 2" DA RAM       |

### Lift Ram Diagram and Parts List



| 56538K – RAM ASSEMBLY 1-1/2 X 8 |       |     |                         |
|---------------------------------|-------|-----|-------------------------|
| Item                            | Part  | Qty | Description             |
| 95                              | 56555 | 1   | GLAND NUT POLYPAC SEAL  |
| 96                              | 56556 | 1   | SEAL KIT W/POLYPAC SEAL |
| 97                              | 56537 | 1   | SPACER                  |
| 99                              | 62290 | 2   | SPLIT BEARING 1-1/2"    |

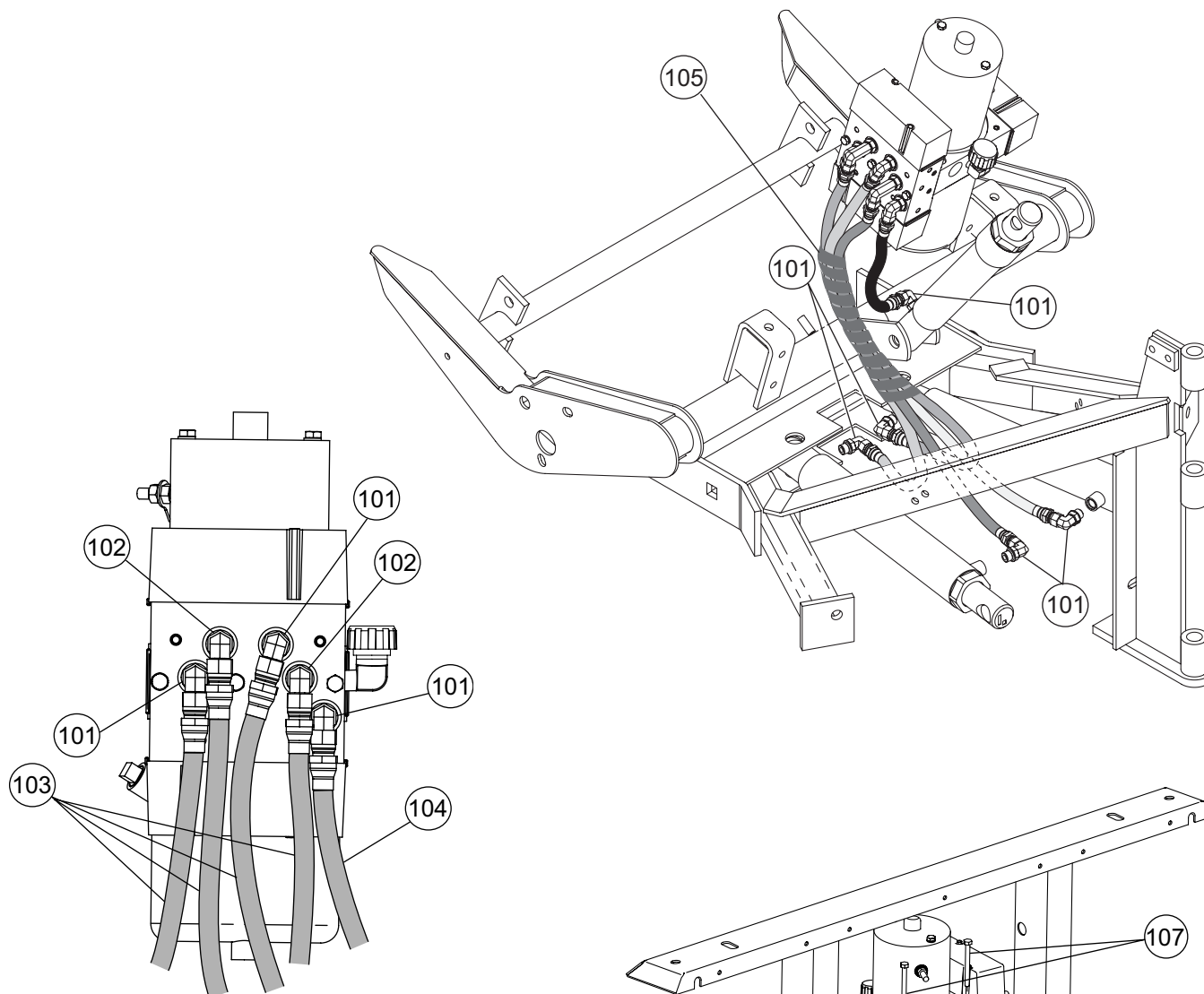
### ABBREVIATIONS

|      |                           |      |                              |     |                      |
|------|---------------------------|------|------------------------------|-----|----------------------|
| ASSY | Assembly                  | HX   | Hex                          | PS  | Passenger Side       |
| CU   | Curb Side                 | HYD  | Hydraulic                    | SOL | Solenoid             |
| DA   | Double-Acting             | JIC  | Joint Industry Conference    | STD | Standard             |
| DEG  | Degree                    | LG   | Long                         | TY  | Type                 |
| DR   | Driver Side               | M    | Metric                       | V   | MVP                  |
| DS   | Driver Side               | NPT  | National Pipe Thread         | W/  | With                 |
| F    | Female                    | NPTF | National Pipe Thread (Fluid) | W/O | Without              |
| FS   | FloStat® Hydraulic System | NS   | Not Shown                    | ZP  | Zinc Plate           |
| G    | Grade                     | PC   | Printed Circuit              | ZYC | Zinc Yellow Chromate |
| HD   | Heavy Duty                |      |                              |     |                      |

# MVP® SNOWPLOW ASSEMBLY PARTS LIST

## HYDRAULICS BOX NO. 64777

### Hose and Fitting Diagrams and Parts List



#### HOSE AND FITTING PARTS LIST

| Item | Part  | Qty | Description                        |
|------|-------|-----|------------------------------------|
| 101  | 56615 | 8   | ELBOW KIT, 90DEG-6 MO-RING/MJIC    |
| 102  | 64212 | 2   | ELBOW KIT, LG 90DEG-6 MO-RING/MJIC |
| 103  | 56616 | 4   | HOSE KIT, 1/4X42 W/ FJIC ENDS      |
| 104  | 56617 | 1   | HOSE KIT, 1/4X16 W/ FJIC ENDS      |
| 105  | 56823 | 1   | HOSE WRAP, POLYETHYLENE 1" X 18"   |
| 106  | 90039 | 1   | 3/8-16X1 HEX CAP SCREW G5          |
| 107  | 90010 | 2   | 1/4-20X2-3/4 HEX CAP SCREW G5      |
| 108  | 91331 | 2   | 1/4-20 HEX LOCKNUT GB              |

\*Item 106:  
Do not use any washers.  
Torque to 15-20 ft-lb.

For a list of abbreviations, see page 4.

# MVP® SNOWPLOW ASSEMBLY PARTS LIST

## HYDRAULICS BOX NO. 64777

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### Bolt Bag Assembly Parts Lists

| 64292 – BOLT BAG ASSEMBLY LARGE                                        |     |                                     |       |     |                                |
|------------------------------------------------------------------------|-----|-------------------------------------|-------|-----|--------------------------------|
| Part                                                                   | Qty | Description                         | Part  | Qty | Description                    |
| 56615                                                                  | 8   | ELBOW KIT, 90 DEG-6 M O-RING/M JIC  | 90039 | 1   | 3/8-16X1 HEX CAP SCREW G5      |
| 64212                                                                  | 2   | ELBOW KIT, LONG 90 DEG, -6 M O-RING | 56580 | 6   | SCREW, STANDOFF ZYC            |
| 56099                                                                  | 1   | DIELECTRIC GREASE TUBE              | 91331 | 2   | 1/4-20 HEX LOCKNUT GB          |
| 56558                                                                  | 2   | 1/2 FLAT WASHER SPECIAL             | 21726 | 1   | 3/8 NPTFX90 STREET ELBOW BRASS |
| 56595                                                                  | 7   | ANCHOR, CABLE TIE                   | 66130 | 2   | RUBBER GROMMET                 |
| 90010                                                                  | 2   | 1/4-20X2-3/4 HEX CAP SCREW G5       | 64280 | 1   | BOLT BAG ASSEMBLY SMALL        |
| 64280 – BOLT BAG ASSEMBLY SMALL                                        |     |                                     |       |     |                                |
| All parts in this bag are used in the vehicle electrical installation. |     |                                     |       |     |                                |
| 90461                                                                  | 2   | 1/4-20X3/4 HEX CAP SCREW G5         | 92842 | 2   | 5/16-24 HEX JAM NUT G5         |
| 90311                                                                  | 2   | 1/4 FLAT WASHER                     | 91402 | 2   | 10-32 HEX MACHINE SCREW NUT    |
| 91202                                                                  | 2   | 5/16 SPRING LOCK WASHER             | 91055 | 2   | M6X1.00X25 HEX CAP SCREW G8.8  |
| 91242                                                                  | 2   | 10 SPRING LOCK WASHER               | 91056 | 2   | M6X1.00 HEX NUT G10            |
| 91331                                                                  | 2   | 1/4-20 HEX LOCKNUT GB               | 91057 | 2   | M6 FLAT WASHER                 |
| 66130                                                                  | 2   | RUBBER GROMMET                      |       |     |                                |

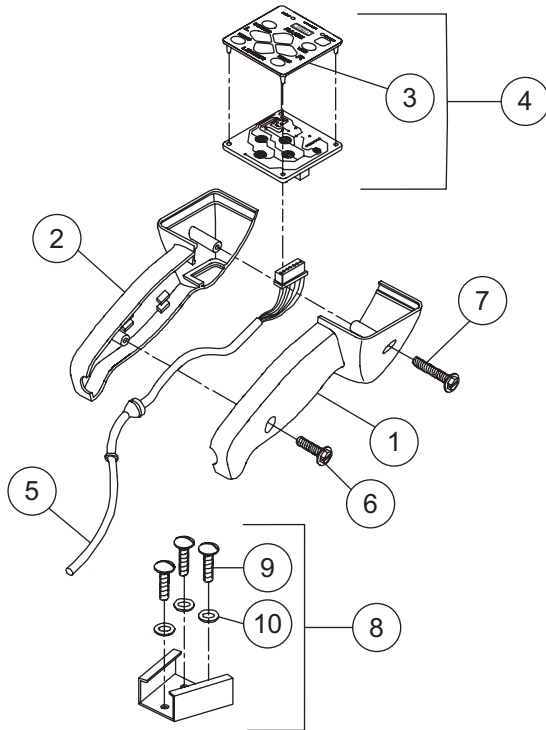
For a list of abbreviations, see page 4.

# MVP® SNOWPLOW ASSEMBLY PARTS LIST

## HYDRAULICS BOX NO. 56777

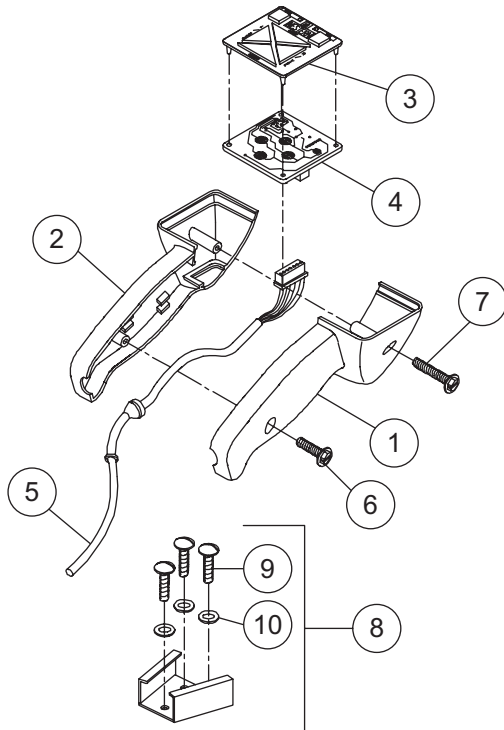
### Cab Control Diagrams and Parts Lists

#### MVP® CabCommand Hand-Held Control Kit (9 Button)



| 96462 MVP® CabCommand HAND-HELD CONTROL KIT (9 BUTTON) |       |     |                                           |
|--------------------------------------------------------|-------|-----|-------------------------------------------|
| ITEM                                                   | PART  | QTY | DESCRIPTION                               |
| 1                                                      | 96456 | 1   | CONTROL BODY - RIGHT                      |
| 2                                                      | 96457 | 1   | CONTROL BODY - LEFT                       |
| 3                                                      | 96461 | 1   | KEYPAD ASSY (MVP) 9 BUTTON                |
| 4                                                      | 96460 | 1   | PC BOARD & KEYPAD (MVP), SERVICE 9 BUTTON |
| 5                                                      | 96454 | 1   | HARNESS, V-PLOW 9 BUTTON CPC CONNECTOR    |
| 6                                                      | 93173 | 1   | 8-18 x 3/4 TAPPING SCREW                  |
| 7                                                      | 93174 | 1   | 8-18 x 1-1/4 TAPPING SCREW                |
| 8                                                      | 64312 | 1   | PARTS BAG - CONTROL BRACKET               |
| 9                                                      |       | 3   | 6-32 x 1 TAPPING SCREW                    |
| 10                                                     |       | 3   | 6 SPRING LOCK WASHER                      |
| NS                                                     | 69190 | -   | FUSE KIT, V-PLOW (PKG OF 5)               |
| NS = Not Shown                                         |       |     |                                           |

#### MVP® CabCommand Hand-Held Control Kit (6 Button)



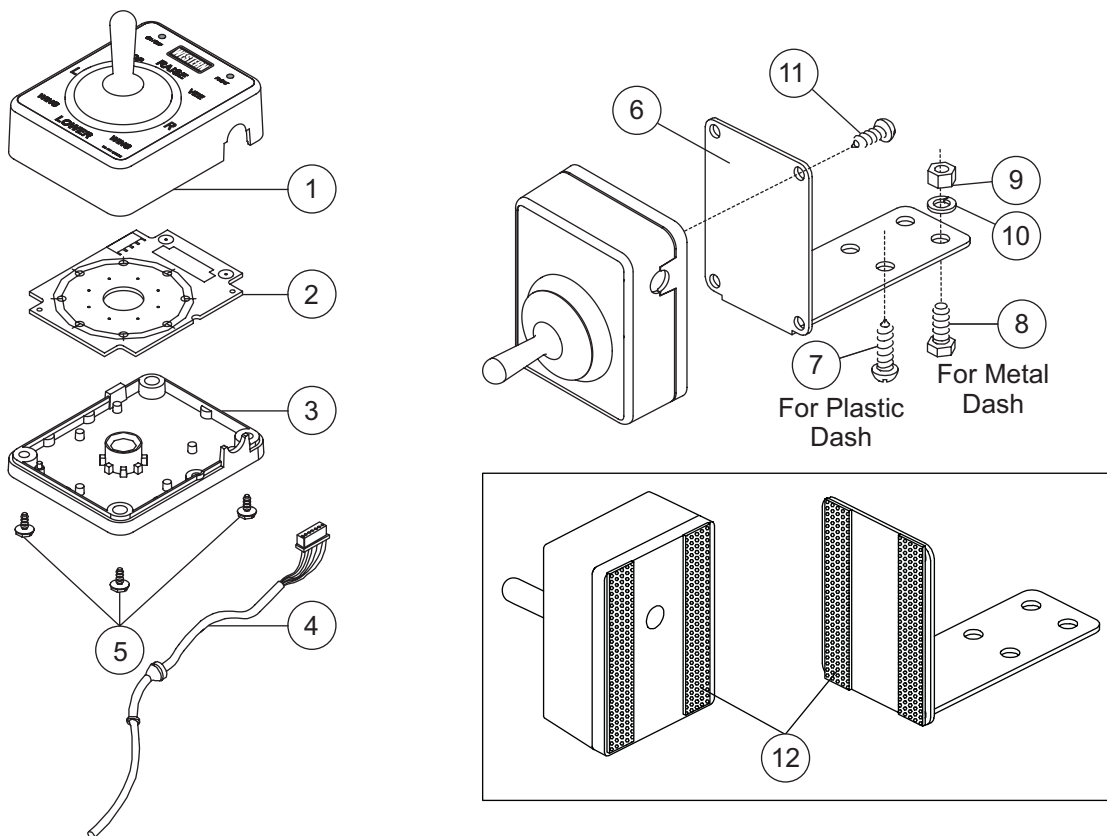
| 64294 MVP® CabCommand HAND-HELD CONTROL KIT (6 BUTTON) |       |     |                                                   |
|--------------------------------------------------------|-------|-----|---------------------------------------------------|
| ITEM                                                   | PART  | QTY | DESCRIPTION                                       |
| 1                                                      | 96456 | 1   | CONTROL BODY - RIGHT                              |
| 2                                                      | 96457 | 1   | CONTROL BODY - LEFT                               |
| 3                                                      | 66792 | 1   | KEYPAD ASSY (MVP) 6 BUTTON                        |
| 4                                                      | 66793 | 1   | PC BOARD ASSY (MVP), SERVICE 6 BUTTON (NO KEYPAD) |
| 5                                                      | 66633 | 1   | HARNESS, V-PLOW COIL CORD 6 BUTTON                |
| 6                                                      | 93173 | 1   | 8-18 x 3/4 TAPPING SCREW                          |
| 7                                                      | 93174 | 1   | 8-18 x 1-1/4 TAPPING SCREW                        |
| 8                                                      | 64312 | 1   | PARTS BAG - CONTROL BRACKET                       |
| 9                                                      |       | 3   | 6-32 x 1 TAPPING SCREW                            |
| 10                                                     |       | 3   | 6 SPRING LOCK WASHER                              |
| NS                                                     | 69190 | -   | FUSE KIT, V-PLOW (PKG OF 5)                       |
| NS = Not Shown                                         |       |     |                                                   |

For a list of abbreviations, see page 4.

# MVP® SNOWPLOW ASSEMBLY PARTS LIST

## HYDRAULICS BOX NO. 56777

### MVP® Joystick Control Kit



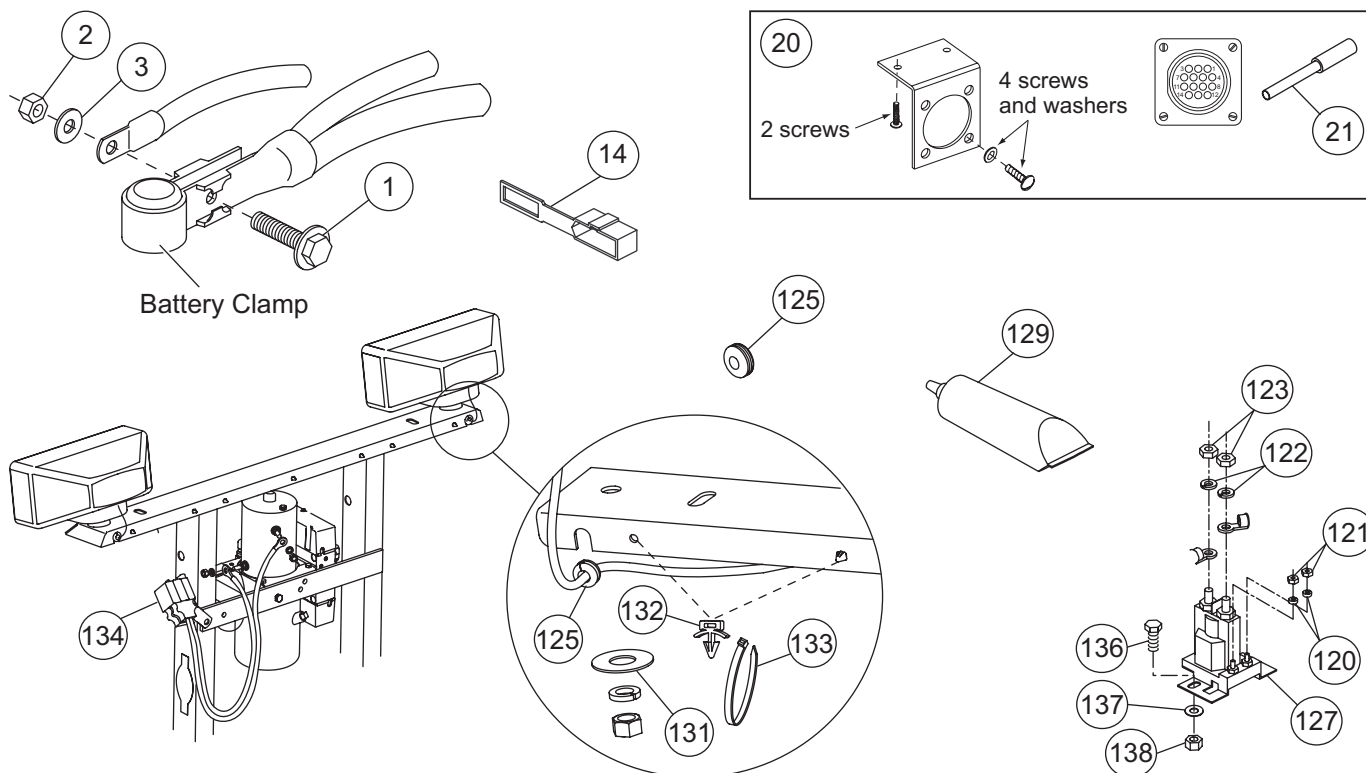
| 96369 MVP® JOYSTICK CONTROL KIT |       |     |                                                         |      |        |     |                             |
|---------------------------------|-------|-----|---------------------------------------------------------|------|--------|-----|-----------------------------|
| ITEM                            | PART  | QTY | DESCRIPTION                                             | ITEM | PART   | QTY | DESCRIPTION                 |
| 1                               | 96368 | 1   | COVER ASSY, JOYSTICK MVP w/<br>ACTUATOR, SPRING & LABEL | 5    | 96364  | 3   | 4 x 3/8 TAPPING SCREW       |
| 2                               | 96367 | 1   | PC BOARD, JOYSTICK V-PLOW                               | NS   | 96363  | 1   | DASH BRACKET PARTS BAG      |
| 3                               | 96366 | 1   | BOTTOM HOUSING, JOYSTICK                                | NS   | 69190  | –   | FUSE KIT, V-PLOW (PKG OF 5) |
| 4                               | 96365 | 1   | HARNESS, JOYSTICK V-PLOW<br>CPC CONNECTOR               |      |        |     |                             |
| 96363 DASH BRACKET PARTS BAG    |       |     |                                                         |      |        |     |                             |
| 6                               |       | 1   | CONTROL BRACKET                                         | 10   |        | 2   | 1/4 SPRING LOCK WASHER      |
| 7                               |       | 4   | 12-14 x 3/4 TAPPING SCREW                               | 11   |        | 2   | 8-18 x 5/8 TAPPING SCREW    |
| 8                               |       | 2   | 1/4-20 x 3/4 HEX CAP SCREW G5                           | 12   | 49305K | 1   | PRO-GRIP MOUNT KIT          |
| 9                               |       | 2   | 1/4-20 HEX NUT G5                                       |      |        |     |                             |
| NS = Not Shown                  |       |     |                                                         |      |        |     |                             |

For a list of abbreviations, see page 4.

# MVP® SNOWPLOW ASSEMBLY PARTS LIST

## HYDRAULICS BOX NO. 64777

### Electrical Component Diagrams and Parts List



#### ELECTRICAL COMPONENTS

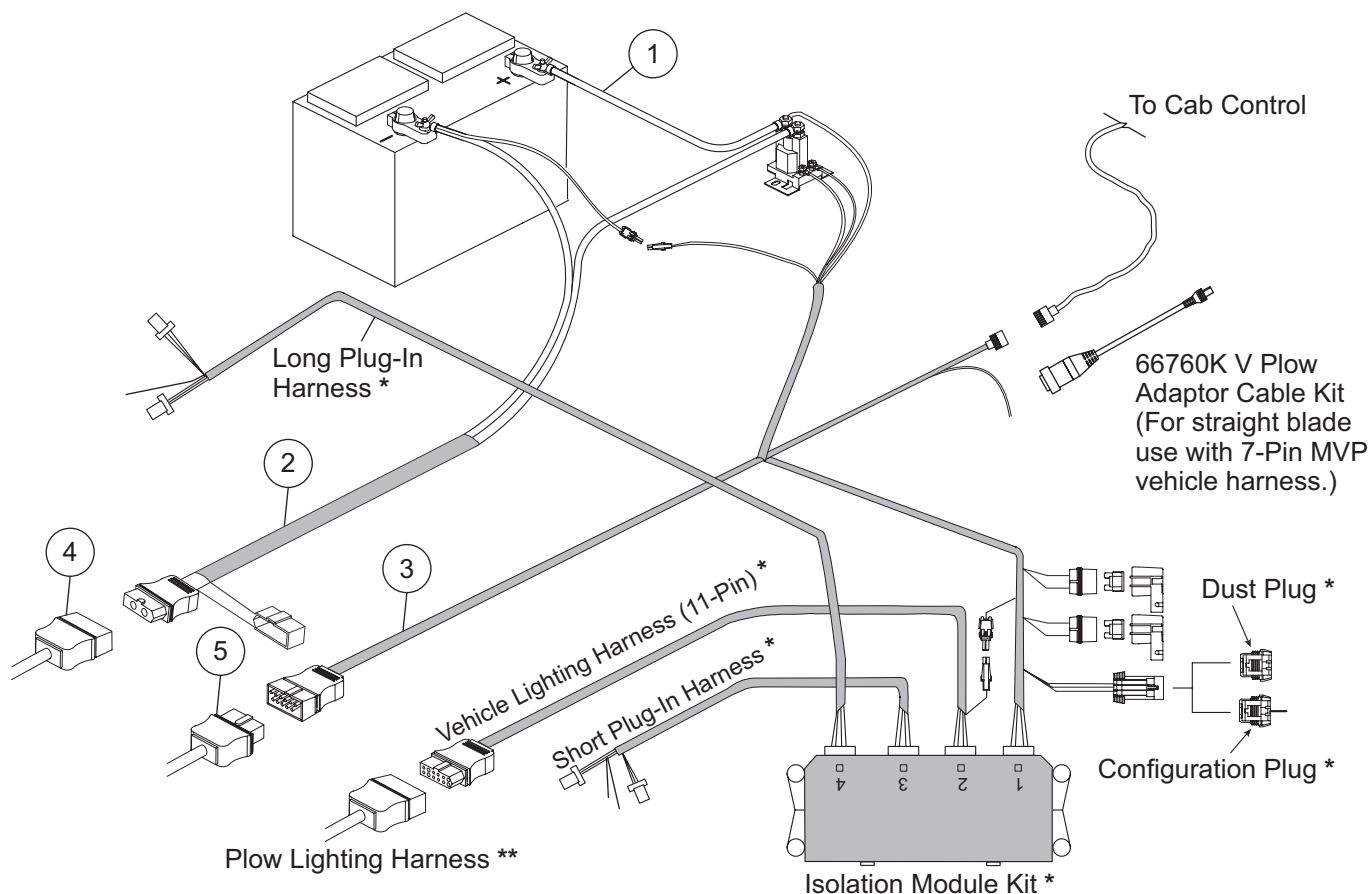
|     |        |   |                                   |     |        |    |                                |
|-----|--------|---|-----------------------------------|-----|--------|----|--------------------------------|
| 1   | 91055  | 2 | M6X1.00X25 HEX CAP SCREW G8.8     | 125 | 66130  | 4  | RUBBER GROMMET                 |
| 2   | 91056  | 2 | M6X1.00 HEX NUT G10               | 127 | 56131K | 1  | MOTOR RELAY KIT                |
| 3   | 91057  | 2 | M6 FLAT WASHER                    | 129 | 56099  | 1  | DIELECTRIC GREASE TUBE-.25 oz. |
| 14  | 61548K | 1 | PLUG COVER KIT                    |     | 49326  | 1  | DIELECTRIC GREASE TUBE-2 oz.   |
| 20  | 56496  | 1 | V-PLOW CONNECTOR, BAGGED ASSEMBLY | 131 | 56558  | 2  | 1/2 FLAT WASHER SPECIAL        |
| 21  | 66767  | 1 | PIN REMOVAL TOOL ASSY             | 132 | 56595  | 7  | ANCHOR, CABLE TIE              |
| NS  | 22123  | 1 | SIGNAL CONTACT, PACKAGE OF 10     | 133 | 59223  | 24 | CABLE TIE                      |
| 120 | 91242  | 2 | 10 SPRING LOCK WASHER             | 134 | 61246  | 1  | CABLE BOOT                     |
| 121 | 91402  | 2 | 10-32 HEX MACHINE SCREW NUT       | 136 | 90461  | 2  | 1/4-20-X3/4 HEX CAP SCREW G5   |
| 122 | 91202  | 2 | 5/16 SPRING LOCK WASHER           | 137 | 90311  | 2  | 1/4 FLAT WASHER                |
| 123 | 92842  | 2 | 5/16 HEX JAM NUT G5               | 138 | 91331  | 2  | 1/4-20 HEX LOCKNUT GB          |

For a list of abbreviations, see page 4.

# MVP® SNOWPLOW ASSEMBLY PARTS LIST

## HYDRAULICS BOX NO. 64777

### Harness Diagram and Parts List



\* See Isolation Module Electrical System Parts List for part numbers.

\*\* See Headlamp Kit Parts List for part number.

| HARNESS COMPONENTS |        |     |                                            |
|--------------------|--------|-----|--------------------------------------------|
| Item               | Part   | Qty | Description                                |
| 1                  | 22511  | 1   | BATTERY CABLE 22" RED                      |
| 2                  | 63411  | 1   | VEHICLE BATTERY CABLE                      |
| 3                  | 26346  | 1   | VEHICLE CONTROL HARNESS 7-PIN              |
| 4                  | 21294  | 1   | PLOW BATTERY CABLE                         |
| 5                  | 26358  | 1   | PLOW CONTROL HARNESS 7-PIN                 |
| NS                 | 27067W | 1   | REPLACEMENT HARNESS END 7-PIN VEHICLE SIDE |

For a list of abbreviations, see page 4.







WESTERN PRODUCTS  
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