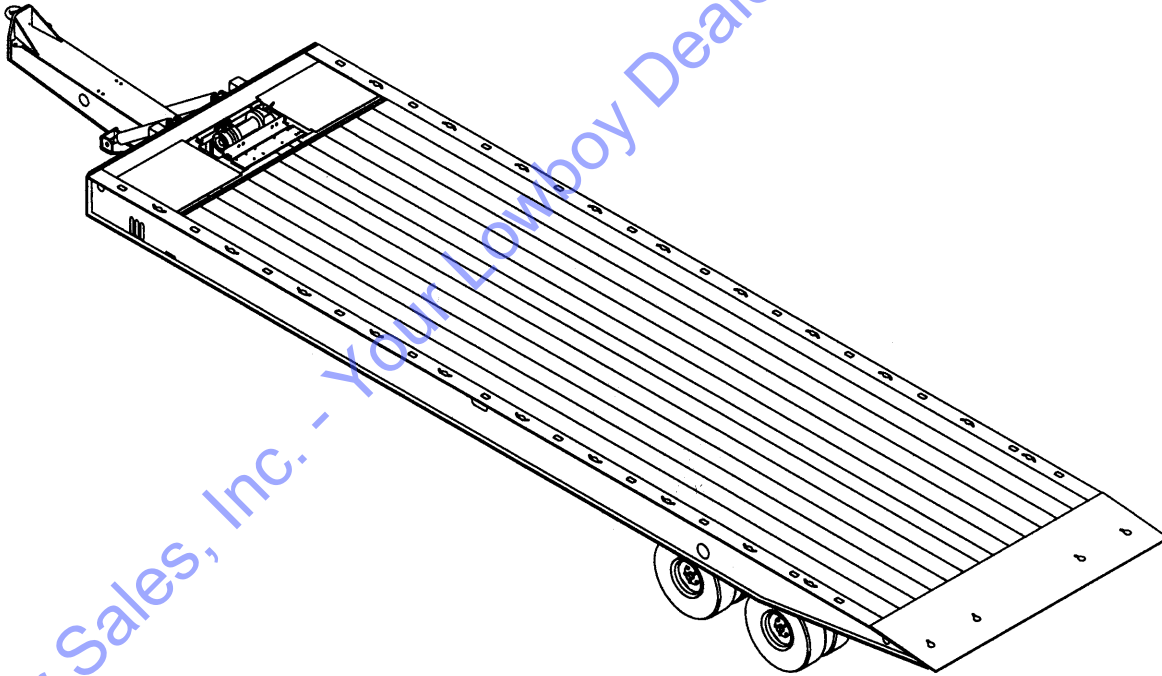




## Model 345D Trailer Parts Manual



### **LANDOLL CORPORATION**

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## Instructions for Ordering Parts

### ORDER PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

PHONE NO.: 1-800-423-4320 OR 1-800-428-5655 OR 1-785-562-5381

FAX NO.: 1-785-562-4892

ORDER ONLINE: [companystore.landoll.com](http://companystore.landoll.com)

### IDENTIFICATION PLATE

The identification plate, which lists the model number and serial number, is located on the front of the frame (See Figure 1-1.)

### SERIAL NUMBER NOMENCLATURE

The serial number for the 345D trailer is located on the identification plate.

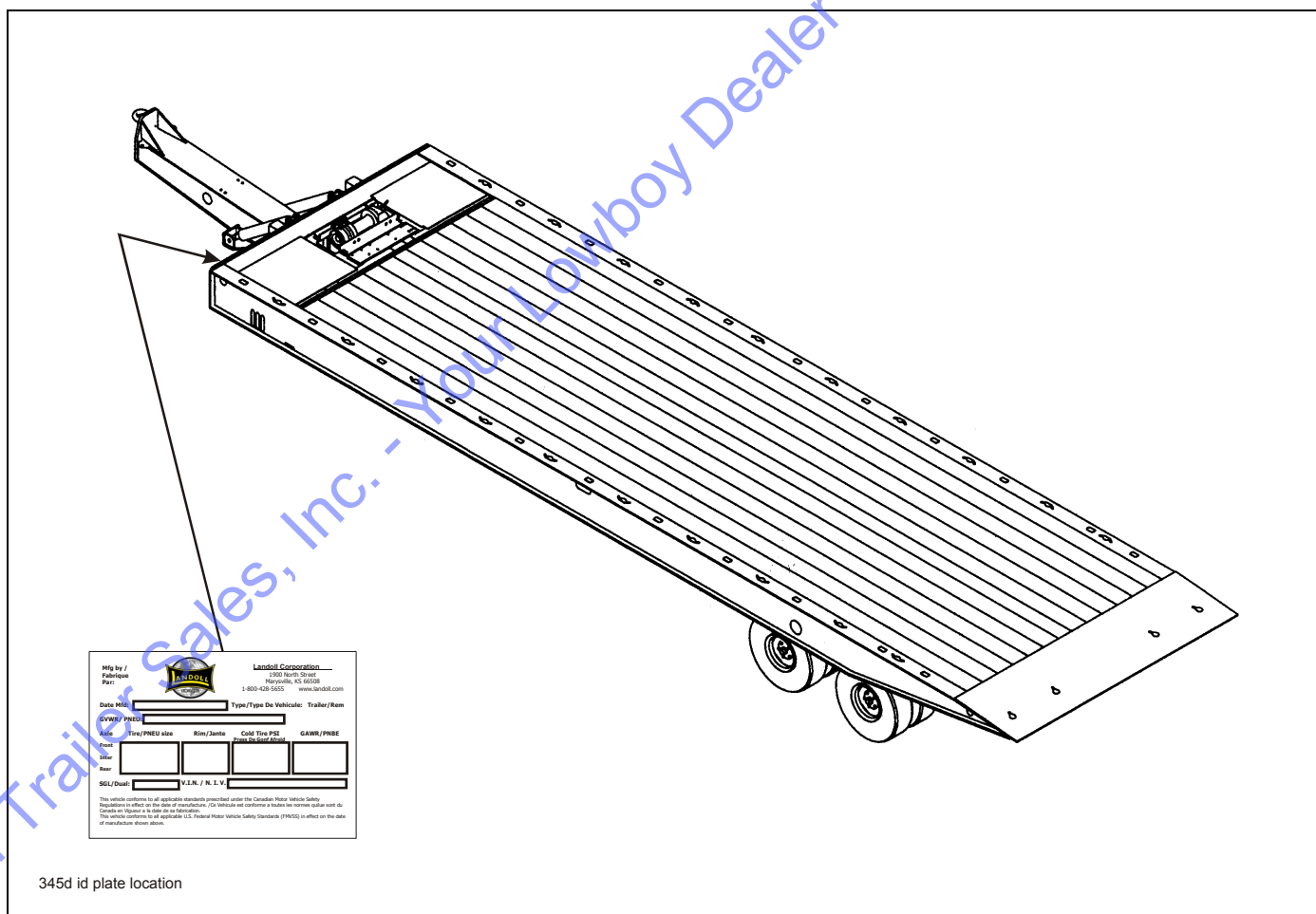
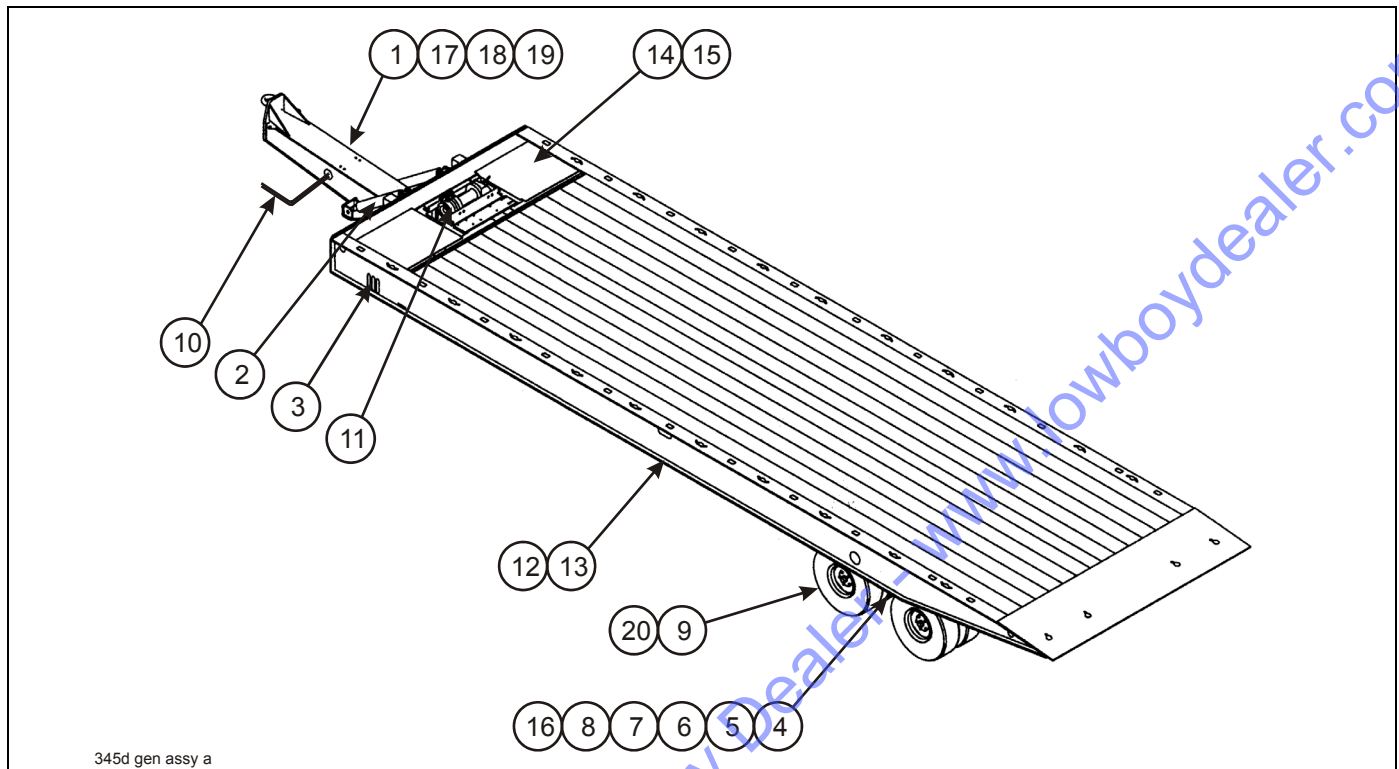


Figure 1-1: Identification Plate and Location

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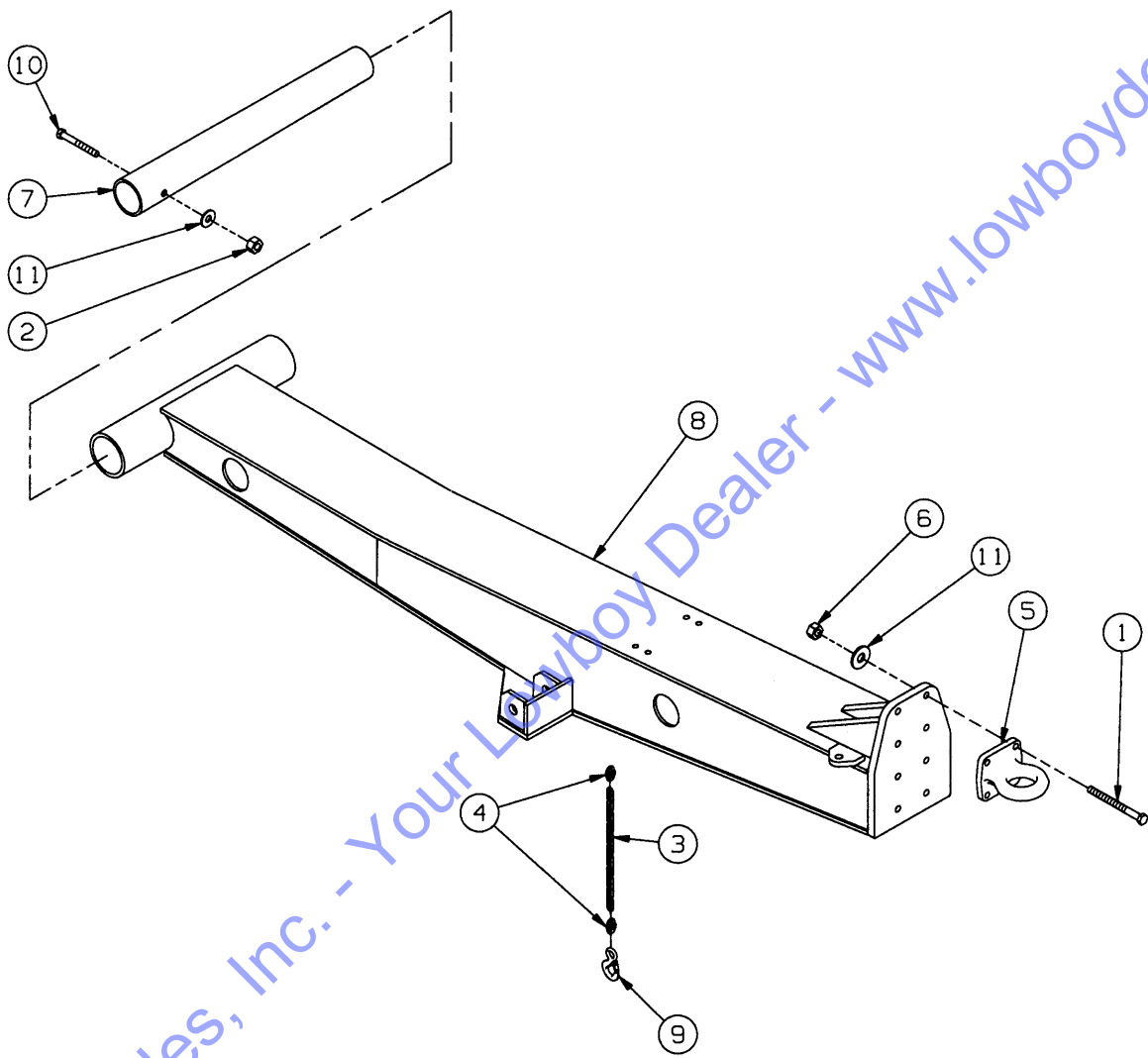
# Illustrated Parts List



**Figure 2-1: General Assembly**

## GENERAL ASSEMBLY

| ITEM | PAGE NO.              | DESCRIPTION                                       | QTY. |
|------|-----------------------|---------------------------------------------------|------|
| 1    | 2-2 - 2-3             | HITCH ASSEMBLY, PINTLE RIGID                      |      |
| 2    | 2-4 - 2-15            | HYDRAULIC ASSEMBLIES                              |      |
| 3    | 2-16 - 2-17           | ELECTRICAL ASSEMBLIES                             |      |
| 4    | 2-18 - 2-23           | UNDERCARRIAGE/SUSPENSION ASSEMBLIES - SPRING RIDE |      |
| 5    | 2-24 - 2-29           | UNDERCARRIAGE ASSEMBLIES - AIR RIDE               |      |
| 6    | 2-30 - 2-31;2-36-2-37 | AIR BRAKE SYSTEM                                  |      |
| 7    | 2-32 - 2-33           | SUSPENSION HANGER ASSEMBLY                        |      |
| 8    | 2-34 - 2-35           | AXLE AND BRAKE ASSEMBLIES                         |      |
| 9    | 2-38 - 2-39           | HUB AND DRUM ASSEMBLIES                           |      |
| 10   | 2-40 - 2-41           | AIR SYSTEM                                        |      |
| 11   | 2-42 - 2-52           | WINCH ASSEMBLIES                                  |      |
| 12   | 2-53 - 2-55           | DECAL INSTALLATION                                |      |
| 13   | 2-56 - 2-57           | EXTENSION INSTALLATION (OPTION)                   |      |
| 14   | 2-58 - 2-62           | ENGINE DRIVE, 27 HP                               |      |
| 15   | 2-64 - 2-67;2-76-2-87 | MISCELLANEOUS ASSEMBLIES (OPTION)                 |      |
| 16   | 2-68 - 2-75           | DOCK LEVELER ASSEMBLIES (OPTION)                  |      |
| 17   | 2-88                  | HITCH LOCK AND JACK INSTALLATIONS (OPTION)        |      |
| 18   | 3-311-010145          | PARKING STAND                                     |      |
| 19   | 346SL                 | LOCK HITCH PIN                                    |      |
| 20   | 3-406-010024          | HUBODOMETER/BRACKET (OPTION)(NO PARTS BREAKDOWN)  |      |

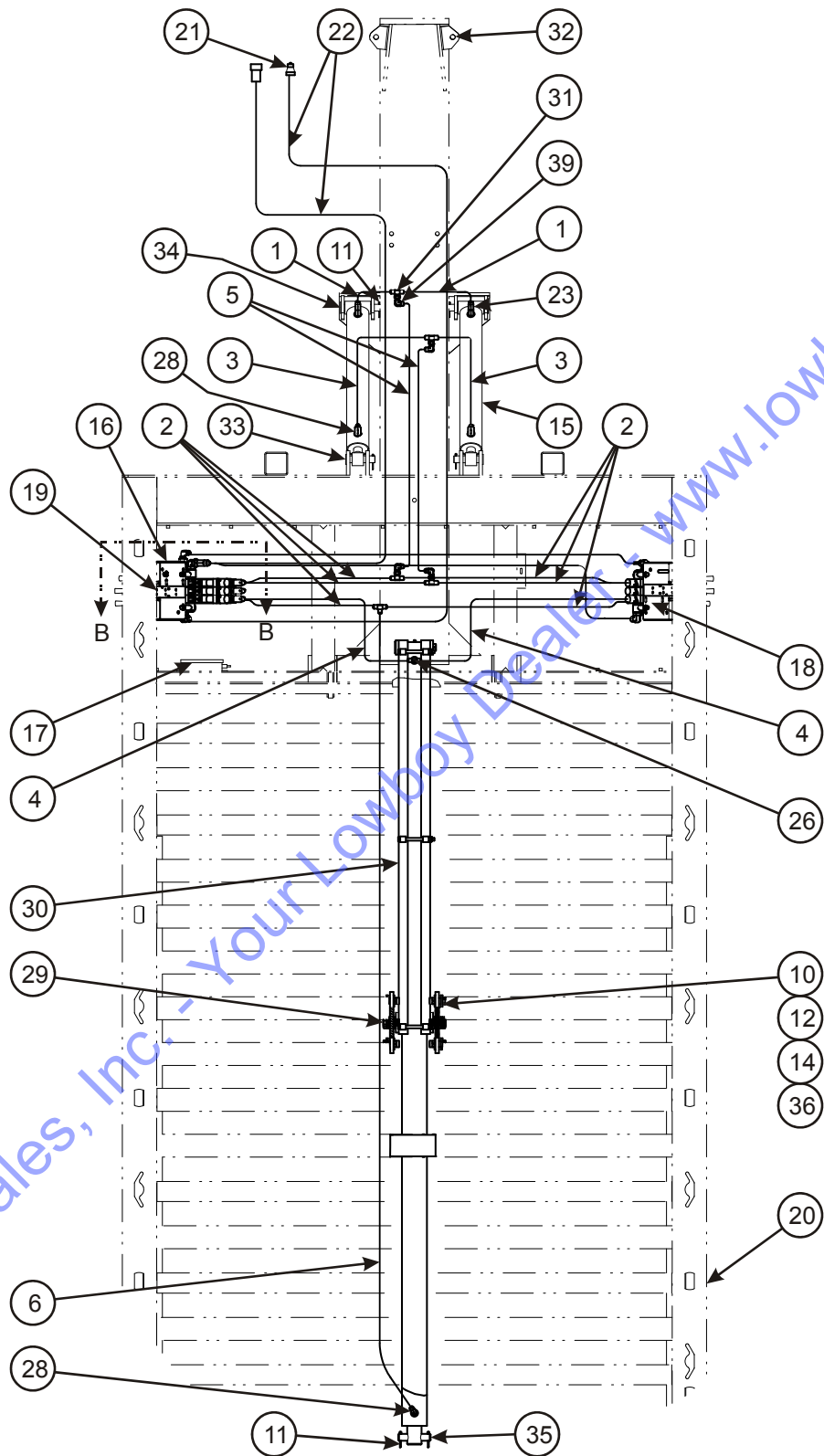


3mo375-010613

Figure 2-2: Hitch Assembly, Pintle Rigid

**HITCH ASSEMBLY, PINTLE RIGID**

| ITEM | PART NO.        | DESCRIPTION                                        | QTY. |
|------|-----------------|----------------------------------------------------|------|
|      | 3-375-010613-01 | HITCH ASSEMBLY, PINTLE RIGID 7'                    |      |
|      | 3-375-010613-02 | HITCH ASSEMBLY, PINTLE RIGID 5'                    |      |
|      | 3-375-010613-03 | HITCH ASSEMBLY, PINTLE RIGID 4'                    |      |
|      | 3-375-010613-04 | HITCH ASSEMBLY, PINTLE INV PLATE 5'                |      |
|      | 126890          | HITCH ASSY, PINTLE RIGID 7' W/ GR8 CHAIN AND CONN. |      |
| 1    | 1-654-010032-09 | SCREW, HEX HEAD CAP 3/4-10 X 3 GR8                 | 4    |
| 2    | 1-512-010007-12 | NUT, HEX 3/4-10 GR2                                | 1    |
| 3    | 3-174-010039036 | CHAIN, 1/2 X 36 GRD 7                              | 2    |
|      | 126888          | CHAIN, 1/2 X 36 GR8                                | 2    |
| 4    | 3-174-010038    | CHAIN LINK, CONNECTING 1/2                         | 4    |
|      | 126889          | CHAIN LINK, CONNECTING 1/2 GR8                     | 2    |
| 5    | 1385            | PINTLE EYE                                         | 1    |
| 6    | 1-512-010010-12 | NUT, HEX 3/4-10 GR8                                | 4    |
| 7    | 3-311-010578    | HINGE TUBE                                         | 1    |
| 8    | 3-375-010147    | HITCH ASSEMBLY, 7FT                                | 1    |
|      | 3-375-010152    | 4 FT HITCH ASSEMBLY                                | 1    |
|      | 3-375-010140    | 5 FT HITCH ASSEMBLY                                | 1    |
|      | 3-375-010621    | HITCH WELDMENT 5' INVERT FRONT PLATE               | 1    |
| 9    | 3-382-010019    | HOOK, EYE W/ LATCH ASSEMBLY                        | 2    |
|      | 126886          | HOOK, CLEVIS 1/2 CHAIN W/ LATCH GR8                | 2    |
| 10   | 1-654-010061-07 | SCREW, HEX HEAD CAP 3/4-10 X 2-1/2 GR5             | 1    |
| 11   | 1-861-010034-17 | WASHER, SPLIT LOCK 3/4                             | 5    |



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Figure 2-3: Hydraulic Assembly (1 of 3)

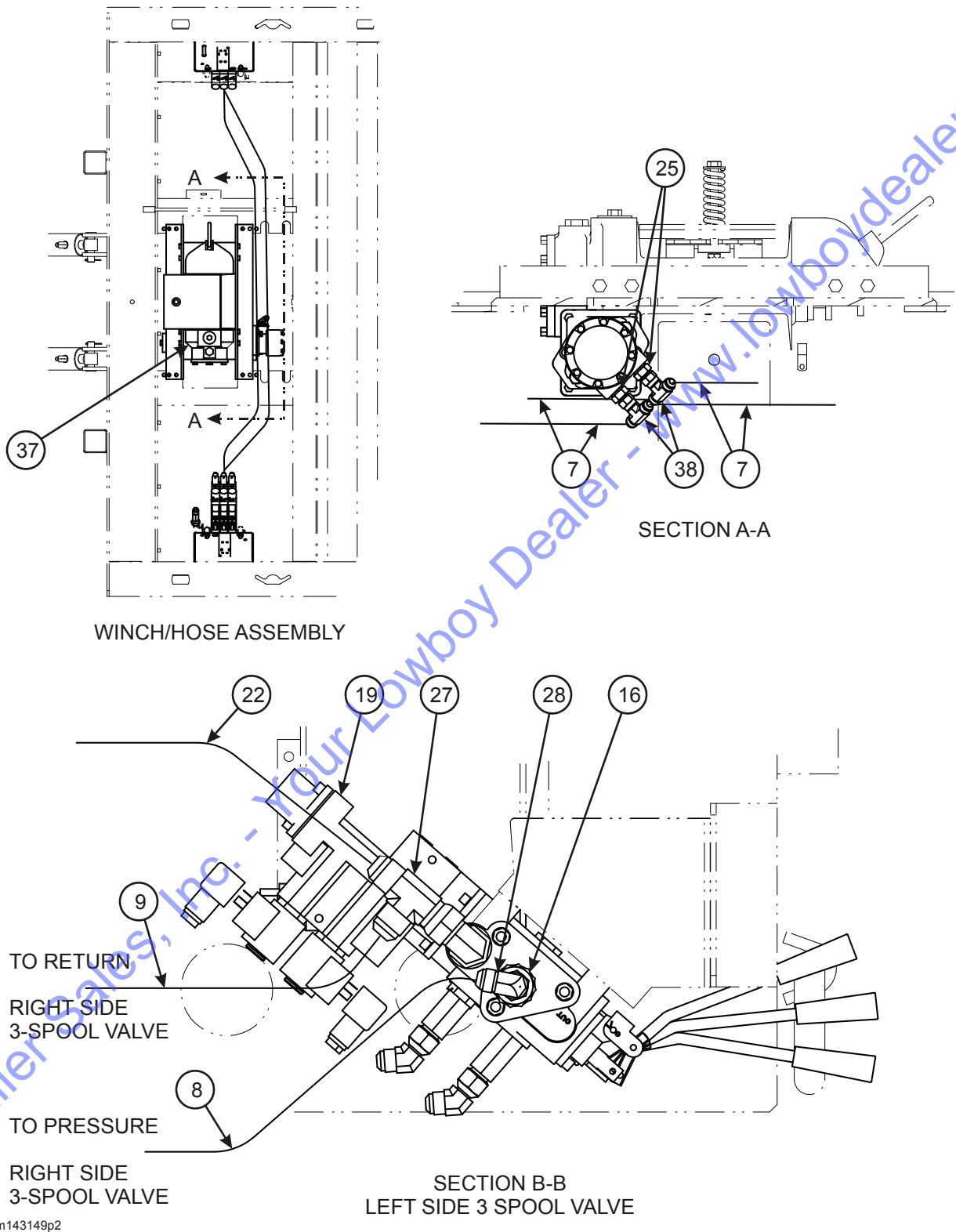
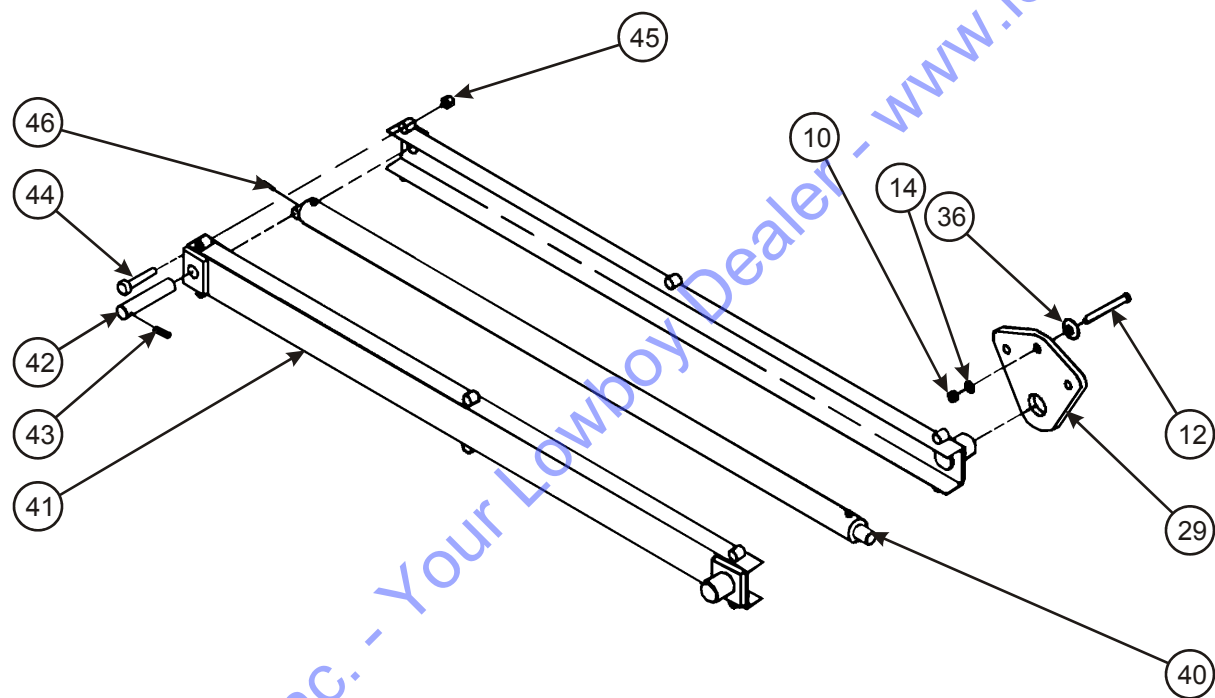


Figure 2-4: Hydraulic Assembly (2 of 3)



3m242-010153

Figure 2-5: Hydraulic Assembly (3 of 3)



## HYDRAULIC ASSEMBLY

| ITEM | PART NO.        | DESCRIPTION                                          | QTY. |
|------|-----------------|------------------------------------------------------|------|
|      | 145682          | HYDRAULIC ELECTRICAL AIR                             |      |
| 1    | 1-397-010301025 | HOSE ASSEMBLY 1/2 X 25                               | 2    |
| 2    | 1-397-010301042 | HOSE ASSEMBLY 1/2 X 42                               | 6    |
| 3    | 1-397-010301048 | HOSE ASSEMBLY 1/2 X 48                               | 2    |
| 4    | 1-397-010301054 | HOSE ASSEMBLY 1/2 X 54                               | 2    |
| 5    | 1-397-010301070 | HOSE ASSEMBLY 1/2 X 70                               | 2    |
| 6    | 1-397-010301148 | HOSE ASSEMBLY 1/2 X 148                              | 1    |
| 7    | 1-397-010302060 | HOSE ASSEMBLY 1/2 X 60                               | 4    |
| 8    | 1-397-010306088 | HOSE ASSEMBLY 1/2 X 88                               | 1    |
| 9    | 1-397-010372088 | HOSE ASSEMBLY 1/2 X 88                               | 1    |
| 10   | 1-512-010005-15 | NUT HEX LOCK 3/4-10 GRB                              | 6    |
| 11   | 1-557-010362-54 | PIN, COTTER 3/16 X 2-1/4                             | 6    |
| 12   | 1-654-010061-06 | SCREW HEX HEAD CAP 3/4-10 X 2-1/4 GR5                | 6    |
| 13   | 1-796-010003-02 | TIE STRAP, PLASTIC 3/16 X 14 (NOT SHOWN)             | 25   |
| 14   | 1-861-010032-21 | WASHER FLAT 3/4                                      | 6    |
| 15   | 159712          | CYLINDER 4 X 20-1/4 (7') (SEE PAGE 2-9)              | 2    |
| 16   | 138179          | CARTRIDGE, POWER BEYOND PRESSURE                     | 1    |
| 17   | 140083          | HARNESS ASSEMBLY                                     | REF  |
| 18   | 143147          | VALVE ASSEMBLY 3-SPOOL NO REMOTE (SEE PAGE 2-11)     | 1    |
| 19   | 149980          | VALVE ASSEMBLY 3-SPOOL REMOTE (SEE PAGE 2-13)        | 1    |
| 20   | ----            | FRAME WELDMENT                                       | REF  |
| 21   | 143155          | COUPLER, MALE/FEMALE                                 | 1    |
| 22   | 143158          | HOSE ASSEMBLY 1/2 X 292                              | 2    |
| 23   | 2061-8-8S       | ADAPTER, 45°                                         | 2    |
| 25   | 202702-10-8S    | ADAPTER                                              | REF  |
| 26   | 203003-8-8S     | ADAPTER TEE                                          | 1    |
| 27   | 203102-12-12S   | ADAPTER, TEE                                         | 1    |
| 28   | 2062-8-8S       | ADAPTER 90°                                          | 4    |
| 29   | 3-125-010241    | BRACKET CYLINDER MOUNT                               | 2    |
| 30   | 3-242-010153    | CYLINDER ASSEMBLY, STD LOAD ANGLE (INCL ITEMS 40-46) | 1    |
| 31   | 3-299-010016    | TEE 37 FLARE                                         | 5    |
| 32   | -----           | HITCH ASSEMBLY                                       | REF  |
| 33   | 3-557-010032    | PIN, CYLINDER ROD END A                              | 2    |
| 34   | 3-557-010033    | PIN, CYLINDER BUTT END A                             | 2    |
| 35   | 3-557-010120    | PIN, UNDERCARRIAGE CYLINDER                          | 1    |
| 36   | 3-861-010038    | WASHER, STEP                                         | 6    |
| 37   | ----            | WINCH ASSEMBLY                                       | REF  |
| 38   | 40-0669-01      | TEE, SWIVEL NUT BRANCH                               | 4    |
| 39   | 2071-8-8S       | ADAPTER 90                                           | 2    |
| 40   | 3-242-010102    | CYLINDER, HYD 4 X 126 O-RING (SEE PAGE 2-8)          | 1    |
| 41   | 3-120-010073    | BRACKET ASSY CYL TRUNNION                            | 2    |
| 42   | 3-557-010033    | PIN, CYL BUTT END                                    | 1    |
| 43   | 1-557-010362-54 | PIN, COTTER 3/16X2-1/4                               | 1    |
| 44   | 1-654-010055-17 | SCREW, HEX HEAD CAP 1/2-13 X 6 GR5                   | 6    |
| 45   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                             | 6    |
| 46   | 1-298-010001-1  | FITTING, GREASE 1/4-28                               | 1    |

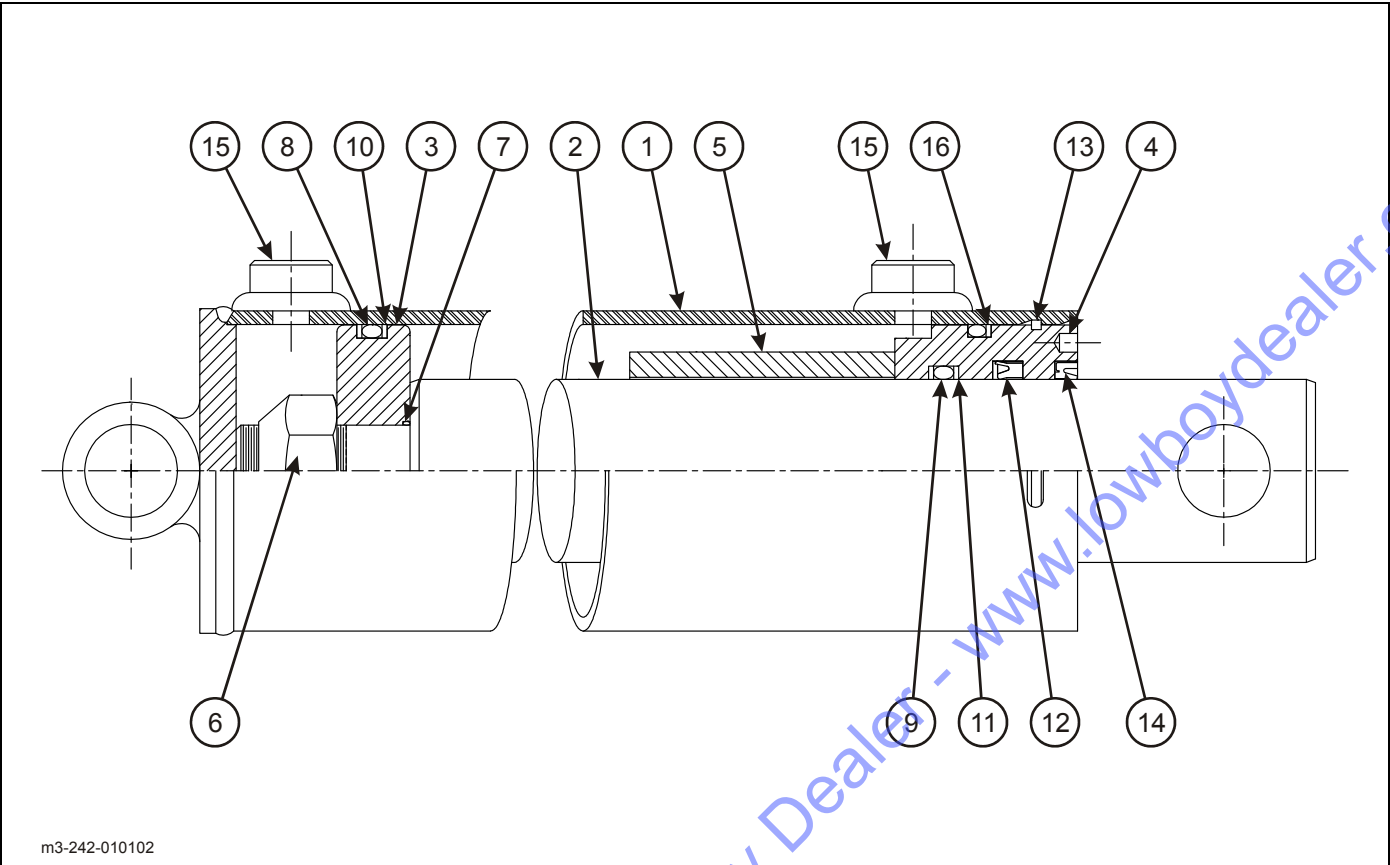


Figure 2-6: Cylinder, Hydraulic 4 X 126

CYLINDER, HYDRAULIC 4 X 126

| ITEM | PART NO.     | DESCRIPTION                                  | QTY. |
|------|--------------|----------------------------------------------|------|
|      | 3-242-010102 | CYLINDER, HYDRAULIC 4 X 126 (STD LOAD ANGLE) |      |
| 1    | 160541       | BUTT AND TUBE ASSEMBLY                       | 1    |
| 2    | 011300179    | PISTON ROD                                   | 1    |
| 3    | 071900195    | PISTON                                       | 1    |
| 4    | 081900277    | GLAND                                        | 1    |
| 5    | 211300024    | SPACER                                       | 1    |
| 6    | 220000212    | LOCKNUT (1-1/4-12)                           | 1    |
| 7    | ----         | O-RING                                       | 1    |
| 8    | ----         | O-RING                                       | 2    |
| 9    | ----         | O-RING                                       | 1    |
| 10   | ----         | BU-WASHER                                    | 2    |
| 11   | ----         | BU-WASHER                                    | 2    |
| 12   | ----         | U-CUP                                        | 1    |
| 13   | ----         | SQ. RETAINING RING                           | 1    |
| 14   | ----         | WIPER                                        | 1    |
| 15   | 200300040    | SAE ORB PLUG                                 | 2    |
| 16   | ----         | BU-WASHER                                    | 1    |
| 17   | ----         | INSTALLATION RING (NOT SHOWN)                | 1    |
| 18   | ----         | WIPER (NOT SHOWN)                            | 1    |
|      | 160542       | PACKING KIT (INCL ITEMS 7-14)                |      |

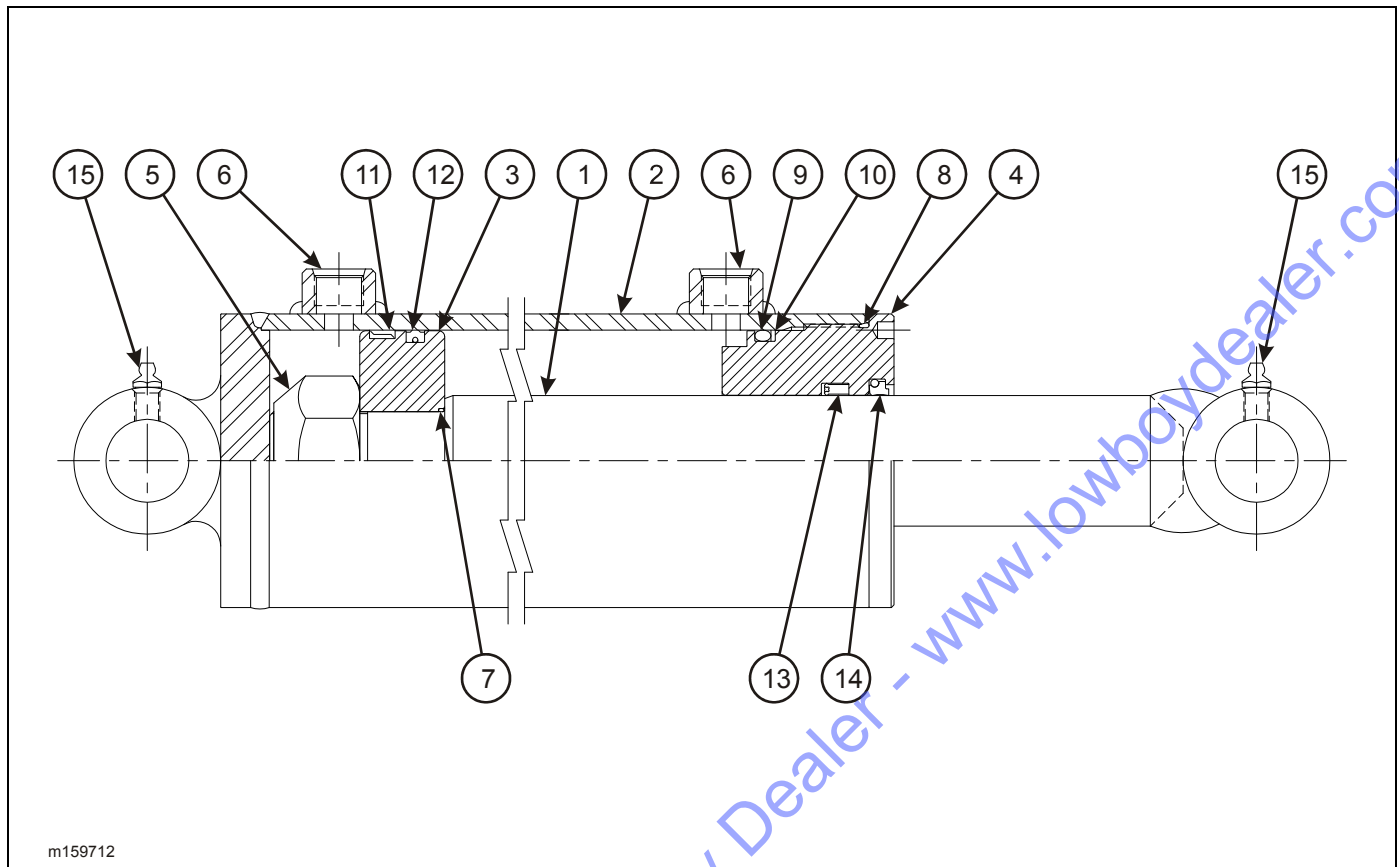
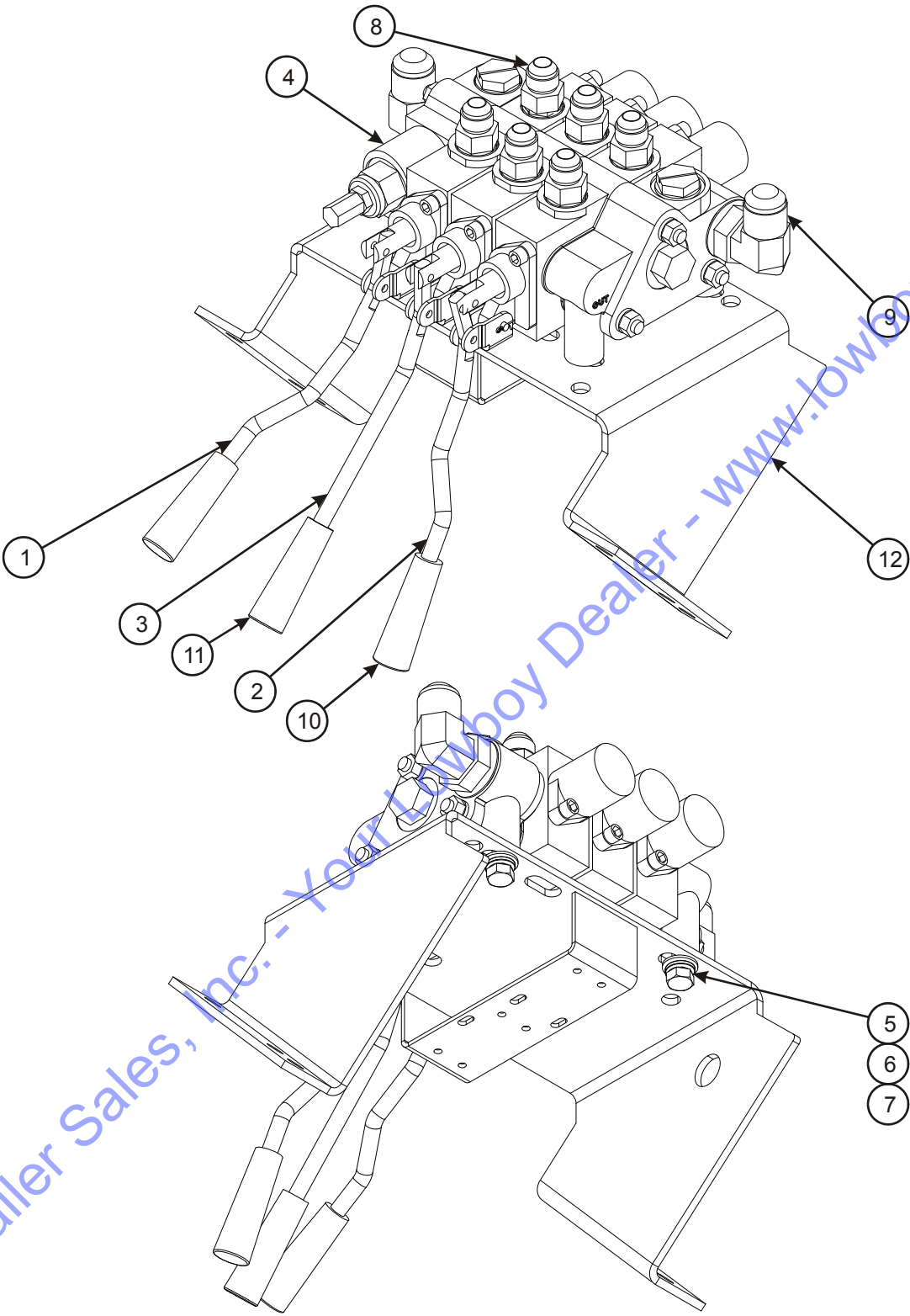


Figure 2-7: Cylinder, Hydraulic 4 X 20-1/4

**CYLINDER, HYDRAULIC 4 X 20-1/4**

| ITEM | PART NO.  | DESCRIPTION                        | QTY. |
|------|-----------|------------------------------------|------|
|      | 159712    | CYLINDER, HYDRAULIC 4 X 20-1/4     | 2    |
| 1    | 160534    | PISTON ROD ASSEMBLY                | 1    |
| 2    | 160535    | BUTT & TUBE ASSEMBLY               | 1    |
| 3    | 160536    | PISTON                             | 1    |
| 4    | 160537    | GLAND                              | 1    |
| 5    | 111908    | LOCKNUT                            | 1    |
| 6    | 200300040 | SHIPPING PLUG                      | 2    |
| 7    | ----      | O-RING                             | 1    |
| 8    | ----      | O-RING                             | 1    |
| 9    | ----      | O-RING                             | 1    |
| 10   | ----      | BU-WASHER                          | 1    |
| 11   | ----      | BEARING RING                       | 1    |
| 12   | ----      | CROWN SEAL                         | 1    |
| 13   | ----      | U-CUP                              | 1    |
| 14   | ----      | WIPER                              | 1    |
| 15   | 125565    | GREASE ZERK                        | 2    |
| 16   | 160538    | WARNING DECAL (NOT SHOWN)          | 1    |
| 17   | 160539    | PLAIN DECAL (NOT SHOWN)            | 1    |
|      | 160540    | PACKING KIT (INCLUDES ITEMS 7 -14) |      |



m143147

Figure 2-8: Valve Assembly - 3 Spool, No Remote

**VALVE ASSEMBLY - 3 SPOOL, NO REMOTE**

| ITEM | PART NO.        | DESCRIPTION                        | QTY. |
|------|-----------------|------------------------------------|------|
|      | 143147          | VALVE ASSEMBLY - 3 SPOOL NO REMOTE |      |
| 1    | 136377          | VALVE HANDLE, RH FORMED            | 1    |
| 2    | 136378          | VALVE HANDLE, LH FORMED            | 1    |
| 3    | 139519          | VALVE HANDLE, CENTER FORMED        | 1    |
| 4    | 143145          | VALVE, 3 STACK (SEE PAGE 2-14)     | 1    |
| 5    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5 | 3    |
| 6    | 1-861-010032-10 | WASHER, FLAT 3/8N                  | 3    |
| 7    | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8             | 3    |
| 8    | 202702-8-8S     | ADAPTER                            | 6    |
| 9    | 2062-10-12S     | ADAPTER, 90                        | 2    |
| 10   | 3-360-010072    | HANDLE, PLASTIC BLACK              | 2    |
| 11   | 3-360-010090    | HANDLE, PLASTIC RED                | 1    |
| 12   | 3-482-010575    | MOUNT WELDMENT, VALVE              | 1    |

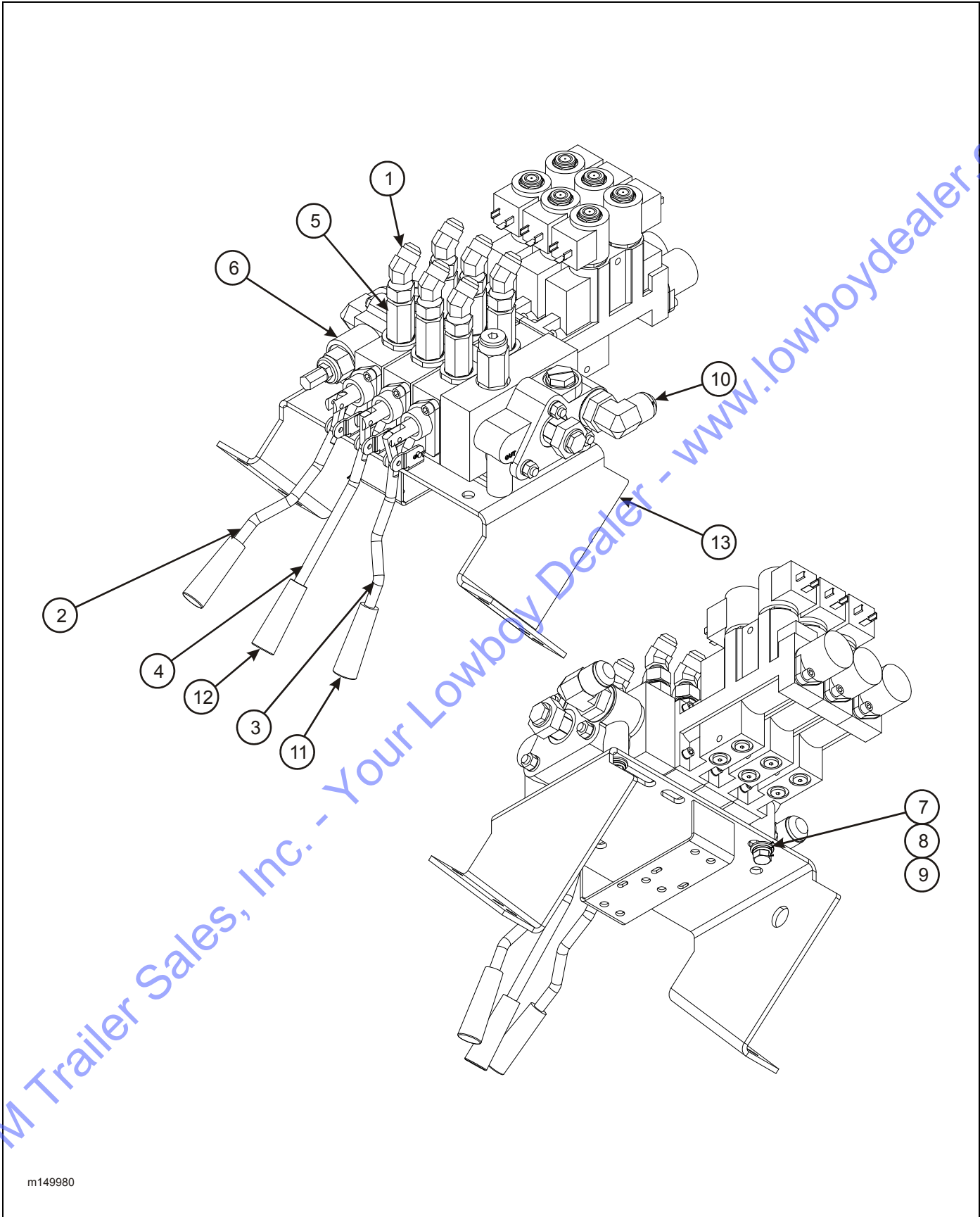


Figure 2-9: Valve Assembly - 3 Spool, Remote

**VALVE ASSEMBLY - 3 SPOOL, REMOTE**

| ITEM | PART NO.        | DESCRIPTION                             | QTY. |
|------|-----------------|-----------------------------------------|------|
|      | 149980          | VALVE ASSEMBLY - 3 SPOOL REMOTE         |      |
| 1    | 121031          | ADAPTER, 45                             | 6    |
| 2    | 136377          | VALVE HANDLE, RH FORMED                 | 1    |
| 3    | 136378          | VALVE HANDLE, LH FORMED                 | 1    |
| 4    | 139519          | VALVE HANDLE, CENTER FORMED             | 1    |
| 5    | 140893          | ADAPTER, STRAIGHT LONG                  | 6    |
| 6    | 148239          | VALVE, 3 STACK SOLENOID (SEE PAGE 2-15) | 1    |
| 7    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5      | 3    |
| 8    | 1-861-010032-10 | WASHER, FLAT 3/8N                       | 3    |
| 9    | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8                  | 3    |
| 10   | 2062-10-12S     | ADAPTER, 90                             | 2    |
| 11   | 3-360-010072    | HANDLE, PLASTIC BLACK                   | 2    |
| 12   | 3-360-010090    | HANDLE, PLASTIC RED                     | 1    |
| 13   | 3-482-010575    | MOUNT WELDMENT, VALVE                   | 1    |

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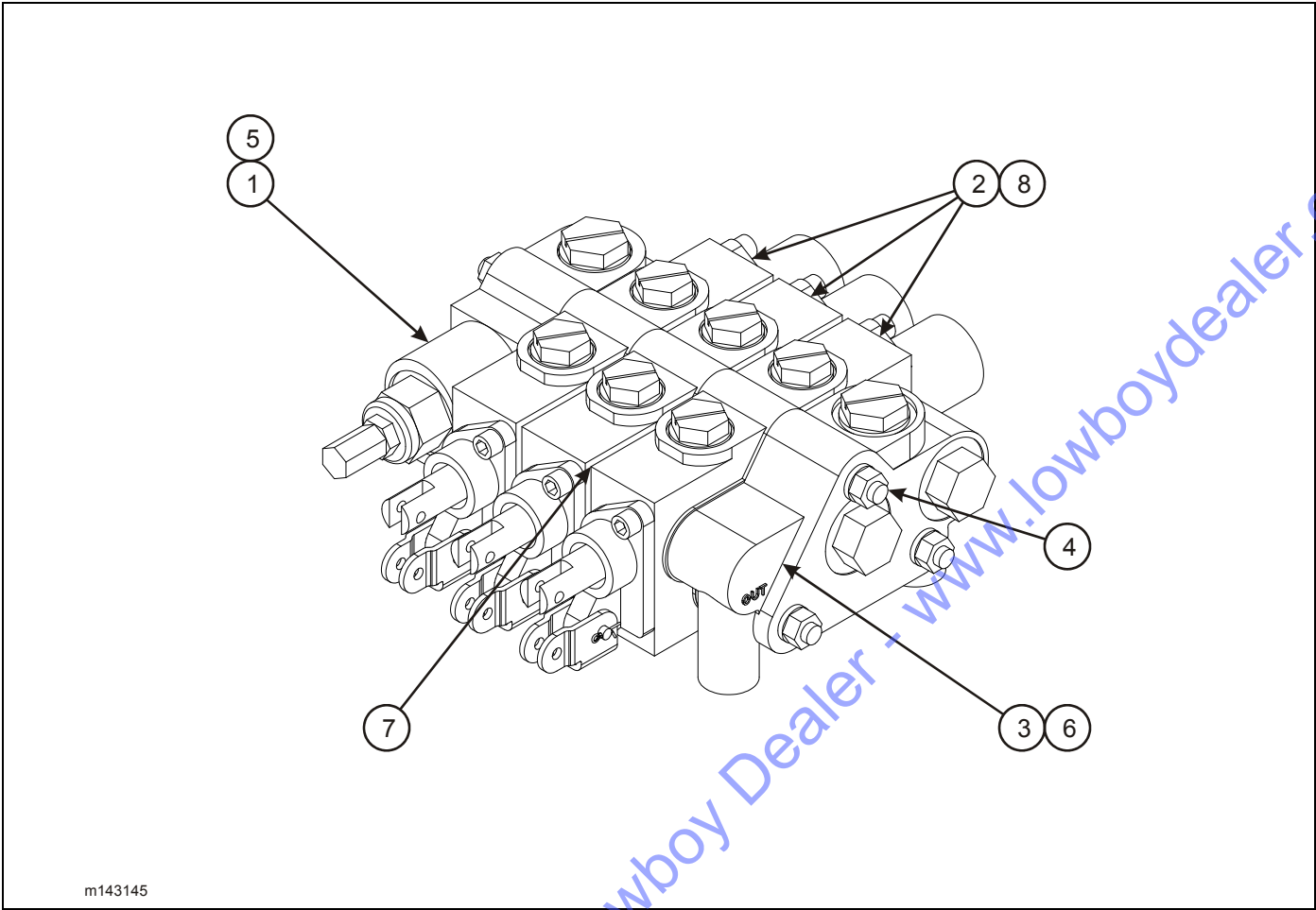


Figure 2-10: Three Stack Valve

VALVE, THREE STACK

| ITEM | PART NO.  | DESCRIPTION                          | QTY. |
|------|-----------|--------------------------------------|------|
|      | 143145    | VALVE, THREE STACK                   |      |
| 1    | 120751    | INLET SECTION KIT                    |      |
| 2    | 149152    | VALVE SECTION KIT                    |      |
| 3    | 149153    | OUTLET SECTION KIT                   |      |
| 4    | 147315    | TIEROD KIT                           |      |
| 5    | 660580002 | SEAL KIT FOR INLET SECTION           |      |
| 6    | 660580003 | SEAL KIT FOR OUTLET SECTION          |      |
| 7    | 660580004 | O-RING SEAL KIT FOR BETWEEN SECTIONS |      |
| 8    | 660580005 | SEAL KIT FOR SOLENOID WORK SECTION   |      |



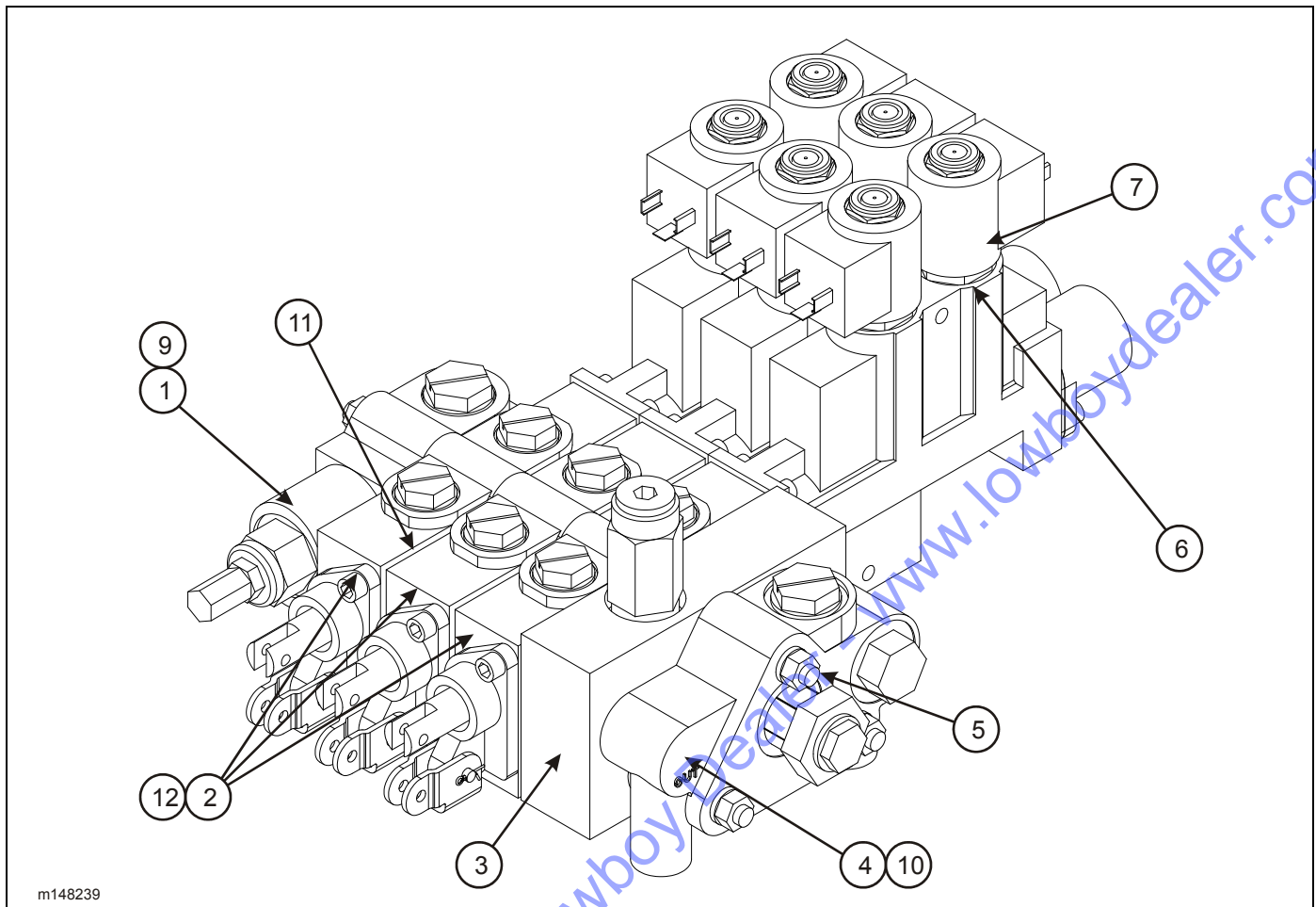
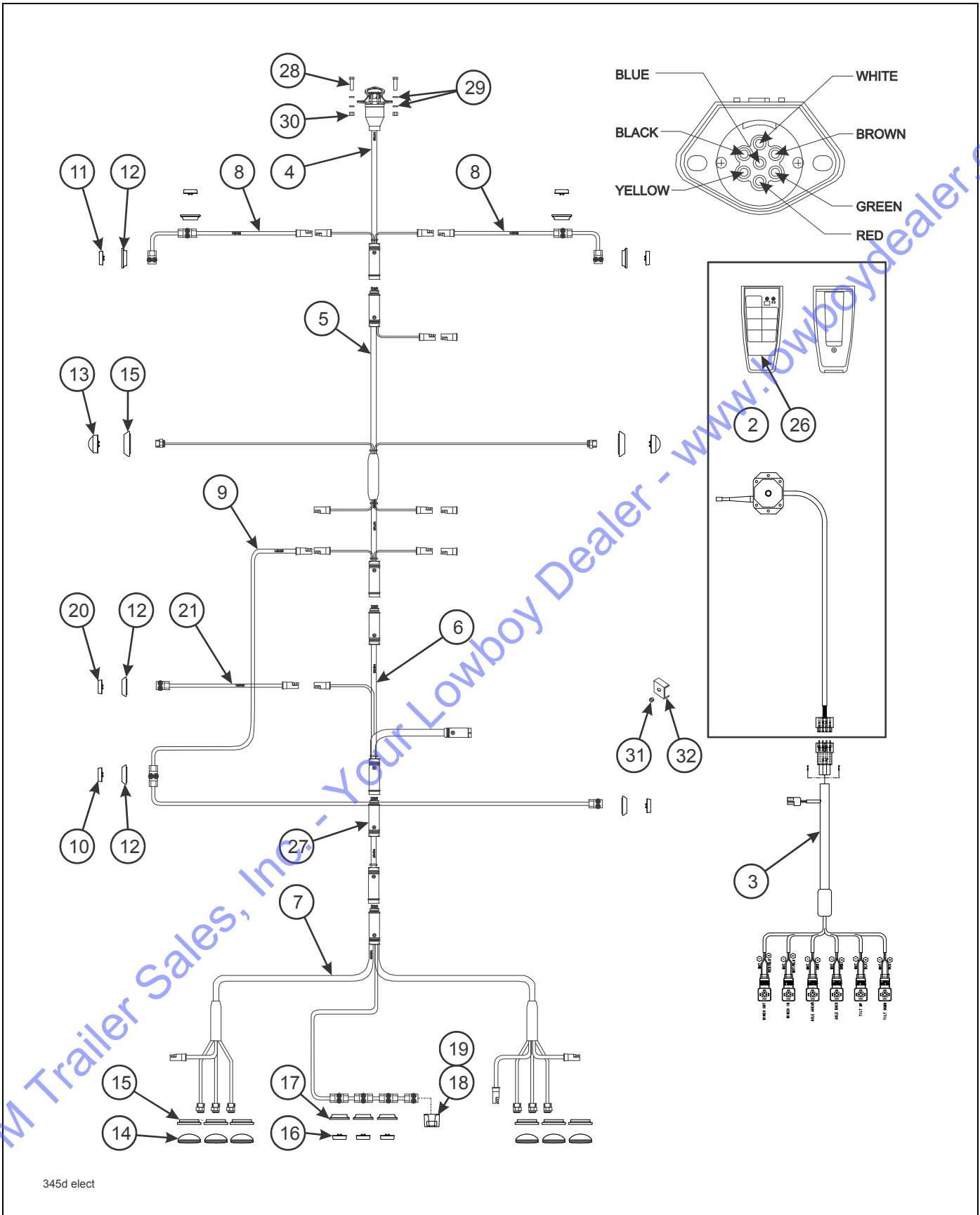


Figure 2-11: Three Stack Valve

## VALVE, THREE STACK SOLENOID

| ITEM | PART NO.  | DESCRIPTION                                | QTY. |
|------|-----------|--------------------------------------------|------|
|      | 148239    | VALVE, THREE STACK SOLENOID                |      |
| 1    | 149526    | INLET SECTION KIT                          |      |
| 2    | 149527    | VALVE SECTION KIT                          |      |
| 3    | 149529    | VALVE SECTION KIT                          |      |
| 4    | 142483    | OUTLET SECTION KIT                         |      |
| 5    | 149530    | TIEROD KIT                                 |      |
| 6    | 142484    | COIL                                       |      |
| 7    | 142485    | CARTRIDGE                                  |      |
| 8    | 142486    | COIL CARTRIDGE ASSEMBLY (INCL ITEMS 6 & 7) |      |
| 9    | 660580002 | SEAL KIT FOR INLET SECTION                 |      |
| 10   | 660580003 | SEAL KIT FOR OUTLET SECTION                |      |
| 11   | 660580004 | O-RING SEAL KIT FOR BETWEEN SECTIONS       |      |
| 12   | 660580005 | SEAL KIT FOR SOLENOID WORK SECTION         |      |



**ELECTRICAL ASSEMBLY**

| ITEM | PART NO.        | DESCRIPTION                         | QTY. |
|------|-----------------|-------------------------------------|------|
| 1    | 1-796-010003-02 | TIE WRAPS (NOT SHOWN)               | AR   |
| 2    | 139537*         | RECEIVER SUBASSEMBLY, KAR-TECH      | REF  |
|      | 143125*         | TRANSMITTER, 6 FUNCTION             | REF  |
|      | 143127          | POUCH, TRANSMITTER                  | REF  |
| 3    | 140083          | HARNESS ASSEMBLY, KAR-TECH          | REF  |
| 4    | 147190          | HARNESS, 7 WAY RECEPTACLE           | 1    |
| 5    | 147191          | HARNESS, BED MAIN                   | 1    |
| 6    | 143103          | HARNESS, E-CHAIN                    | 1    |
| 7    | 143104          | HARNESS, BUMPER                     | 1    |
| 8    | 143105          | HARNESS, MARKER FRONT CORNER        | 2    |
| 9    | 143106          | HARNESS, MARKER FRONT BED           | 1    |
| 10   | 143108          | LIGHT, RED LED 2.5 CL/MARKER        | 2    |
| 11   | 143109          | LIGHT, YELLOW LED 2.5 CL/MARKER     | 8    |
| 12   | 143110          | GROMMET, 2.5 SURFACE MOUNT          | 11   |
| 13   | 143112          | LIGHT, YEL AUX TURN                 | 2    |
| 14   | 143113          | LIGHT, RED LED OVAL STT             | 6    |
| 15   | 143114          | GROMMET, OVAL                       | 8    |
| 16   | 143115          | LIGHT, RED LED RECT CLEARANCE       | 3    |
| 17   | 143116          | GROMMET, RECT                       | 3    |
| 18   | 143117          | LIGHT, CLEAR LED LICENSE            | 1    |
| 19   | 143118          | BRACKET, LIGHT LICENSE              | 1    |
| 20   | 143119          | LIGHT, YELLOW LED ABS               | 1    |
| 21   | 143120          | HARNESS, ABS LAMP                   | 1    |
| 22   | 143122          | CLAMP, HARNESS (NOT SHOWN)          | AR   |
| 26   | 143128          | DECAL, 6 FUNCTION WINCH, TILT, AXLE | REF  |
| 27   | 143166          | HARNESS EXTENSION 48"               | 1    |
| 28   | 1-654-010049-06 | SCREW, HEX HEAD CAP 5/16-18 X 1 GR5 | 2    |
| 29   | 1-861-010032-09 | WASHER, FLAT 5/16W                  | 4    |
| 30   | 1-512-010005-03 | NUT, HEX LOCK 5/16-18               | 2    |
| 31   | 1-510-010001    | NUT, FLANGE 3/8-16                  | AR   |
| 32   | 2-181-010001    | CLAMP, HOSE                         | AR   |

\* ITEM 26 (DECAL) MUST BE PURCHASED WITH THE PURCHASE OF EITHER P/N 139537 (RECEIVER/TRANSMITTER) OR 143125 (TRANSMITTER)

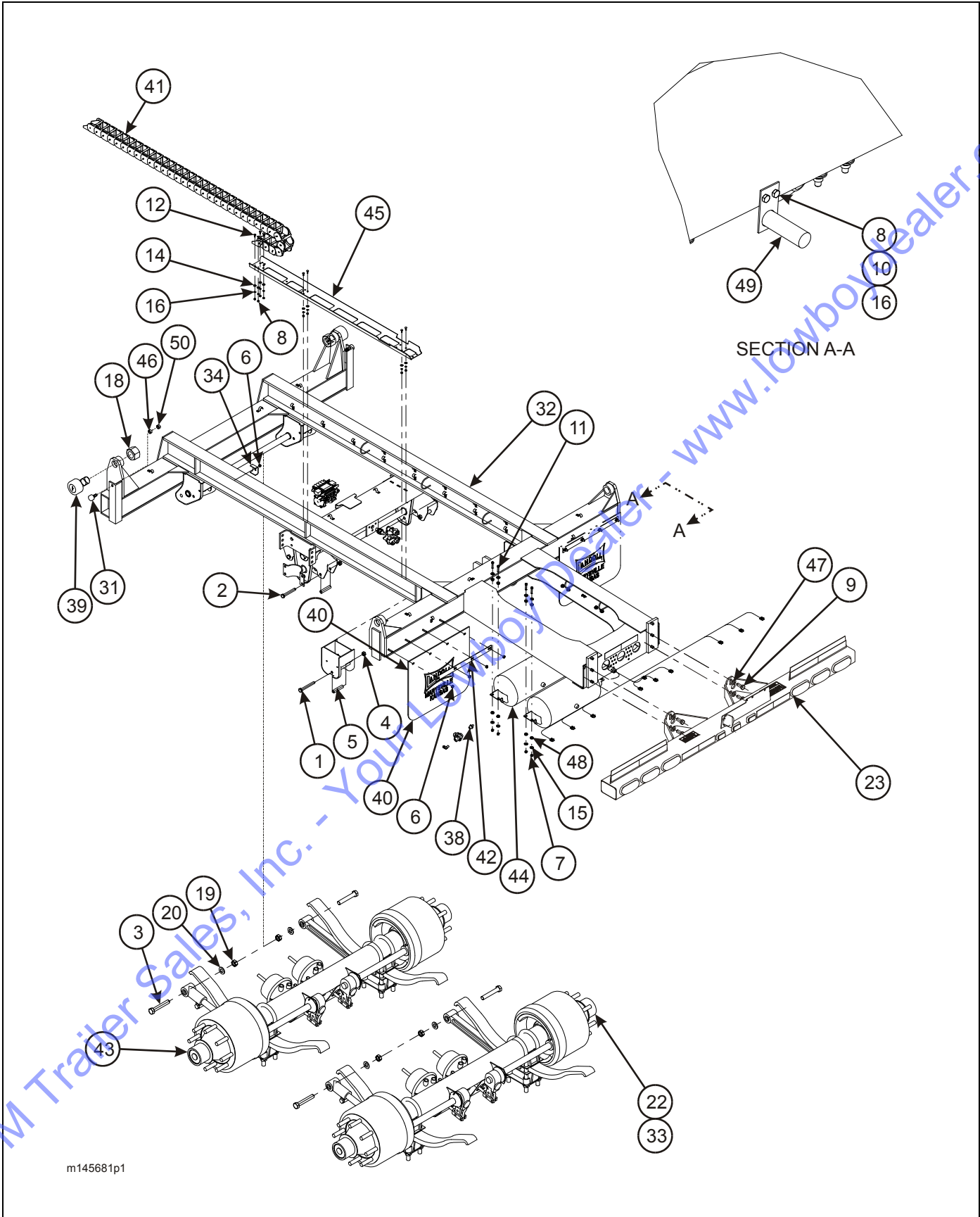


Figure 2-13: Undercarriage Assembly - Spring Ride (1 of 2)

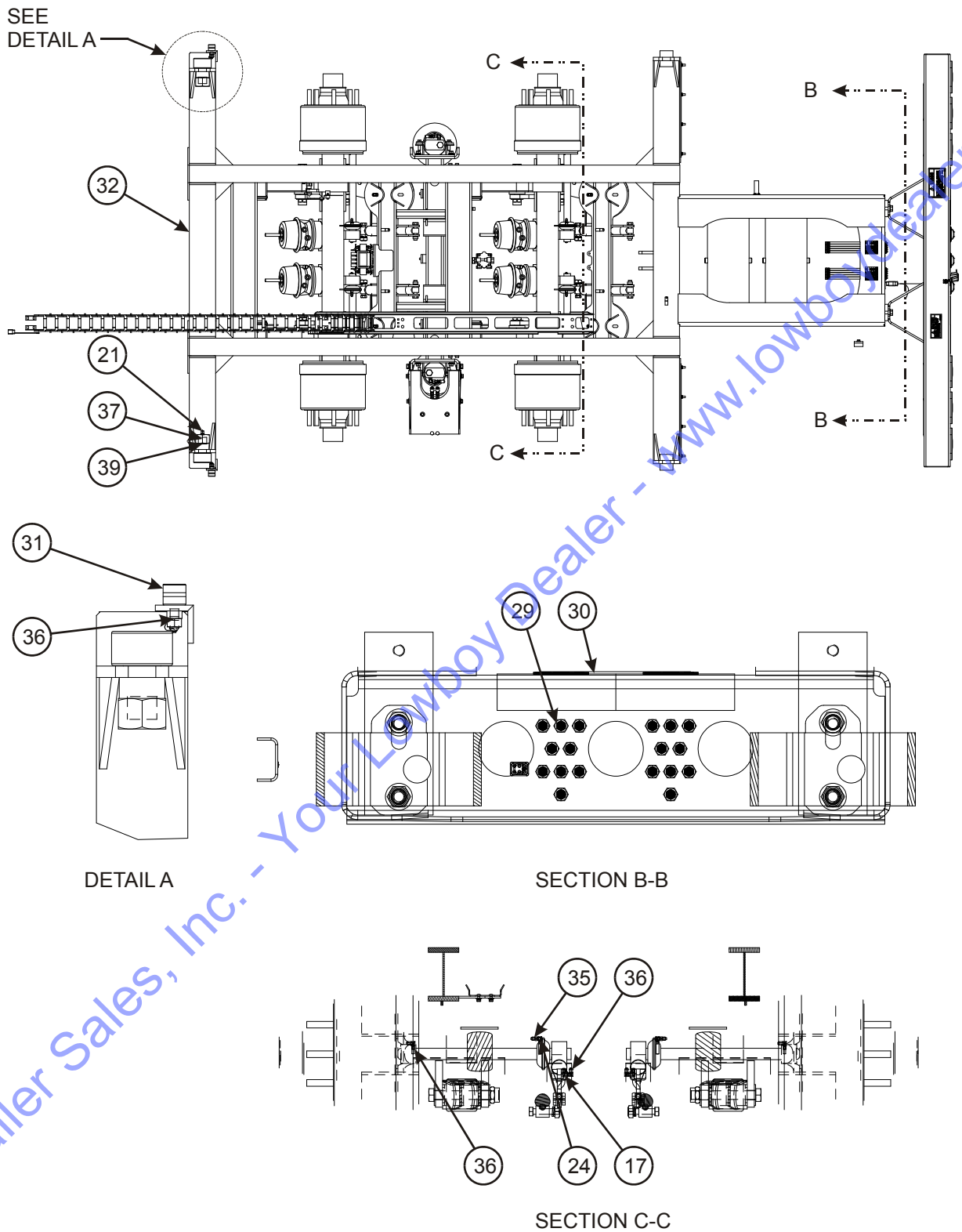


Figure 2-14: Undercarriage Assembly - Spring Ride (2 of 2)

**UNDERCARRIAGE ASSY - SPRING RIDE**

| ITEM | PART NO.        | DESCRIPTION                                      | QTY. |
|------|-----------------|--------------------------------------------------|------|
|      | 145681          | U/C ASSEMBLY SPRING 102"                         |      |
| 1    | 0001-02         | CAPSCREW, HEX HEAD 5/8-18 X 5-1/8                | 2    |
| 2    | 0001-04         | RETAINER, 5/8-18 X 4-1/2 HEX HEAD                | 4    |
| 3    | 0001-08         | BOLT, 7/8-14 X 5-1/4                             | 4    |
| 4    | 0002-07         | LOCKNUT, HEX CENTER 5/8-18                       | 6    |
| 5    | 0741-01         | SPRING, ROLLER EQUALIZER TRANS                   | 6    |
| 6    | 1-510-010001    | NUT, FLANGE LOCK 3/8-16                          | 10   |
| 7    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                         | 8    |
| 8    | 1-512-010007-05 | NUT, HEX 1/4-20 GRB                              | 8    |
| 9    | 1-654-010032-4  | SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8           | 4    |
| 10   | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5               | 2    |
| 11   | 1-654-010051-08 | SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5           | 8    |
| 12   | 1-654-010158-1  | SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR5          | 8    |
| 13   | 1-796-010003-02 | TIE STRAP, PLASTIC .18 X 14 (NOT SHOWN)          | AR   |
| 14   | 1-861-010032-07 | WASHER, FLAT 1/4                                 | 8    |
| 15   | 1-861-010032-11 | WASHER, FLAT 3/8                                 | 16   |
| 16   | 1-861-010034-09 | WASHER, SPLIT LOCK 1/4                           | 8    |
| 17   | 101528          | ELBOW, BRASS PIPE STREET                         | 4    |
| 18   | 104034          | NUT, HEX 2-12 GRB                                | 2    |
| 19   | 110990          | NUT, LOCK 7/8-14                                 | 4    |
| 20   | 110991          | WASHER, FLAT 7/8 HARDENED                        | 4    |
| 21   | 113268          | ADAPTER 90                                       | 4    |
| 22   | 115723          | SUSPENSION ASSEMBLY, SPRING REAR (SEE PAGE 2-23) | 1    |
| 23   | 119580          | BUMPER WELDMENT, E/P                             | 1    |
| 24   | 121355          | ELBOW ST, 90                                     | 4    |
| 25   | *142445         | HOSE ASSEMBLY, GREASE 1/4 X 102                  | 6    |
| 26   | *142450         | HOSE ASSEMBLY, GREASE 1/4 X 144                  | 6    |
| 27   | *142455         | HOSE ASSEMBLY, GREASE 1/4 X 217                  | 4    |
| 28   | *142466         | HOSE ASSEMBLY, GREASE 1/4 X 94                   | 2    |
| 29   | 142545          | NUT, 7/16                                        | 18   |
| 30   | 142553          | DECAL, GREASE TRAILER U/C                        | 2    |
| 31   | 142555          | CAM FOLLOWER 1-1/2 DIA MOD GREASE                | REF  |
| 32   | 143152          | SUSPENSION WELDMENT S/R                          | 1    |
| 33   | 145689          | BRAKE, ABS TANDEM S/R (SEE PAGE 2-31)            | 1    |
| 34   | 2-181-010001    | CLAMP                                            | 3    |
| 35   | 2021-2-4        | ADAPTER, STRAIGHT                                | 4    |
| 36   | 2024-2-4S       | ADAPTER, ELBOW                                   | 10   |
| 37   | 2045-4-4S       | ADAPTER, SWIVEL                                  | 4    |
| 38   | 2083-8-4S       | NIPPLE, HEX                                      | 1    |
| 39   | 3-076-010005    | CAM FOLLOWER 4"                                  | 4    |
| 40   | 3-485-010001    | FLAP MUD 21IN                                    | 2    |
| 41   | 3-755-010189-03 | SUPPORT E-CHAIN                                  | 1    |
|      | 3-755-010189-1  | LINK                                             | 1    |
|      | 380-1           | END MOUNTING BRACKET WITH HOLE                   | 2    |
|      | 380-2           | END MOUNTING BRACKET WITH PIN                    | 2    |
| 42   | 3-762-010017    | CLAMP, MUD FLAP                                  | 2    |
| 43   | 3-762-010691-1  | SUSPENSION ASSEMBLY 70.5-39-1/2 (SEE PAGE 2-23)  | 2    |
| 44   | 3-780-010002    | TANK, AIR                                        | 2    |
| 45   | 3-821-010005    | TRAY CAT-TRACK                                   | 1    |

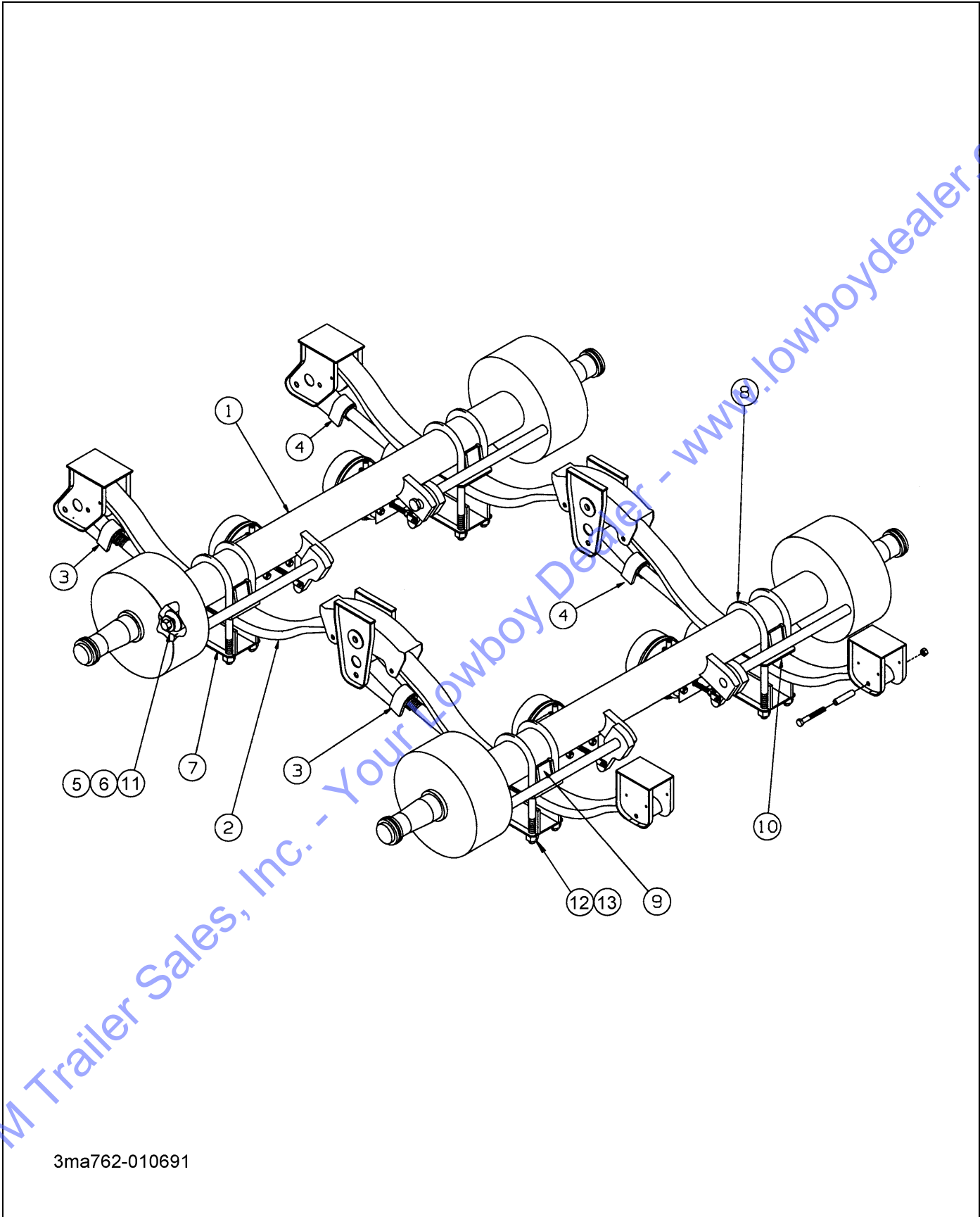
**UNDERCARRIAGE ASSY - SPRING RIDE**

| ITEM | PART NO.     | DESCRIPTION                 | QTY. |
|------|--------------|-----------------------------|------|
| 46   | RRT159X0.5   | TUBE, RD 1.0 X 11/16 X 1/2  | REF  |
| 47   | 622-3511-008 | WASHER 3/4 MIL-CARB FL SA&A | 14   |
| 48   | 805-2        | BUSHING, STEP               | 16   |
| 49   | 101852       | DIAGNOSTIC CABLE            | REF  |
| 50   | 134168       | NUT, HEX 5/8-18 GRB         | REF  |

\* SEE TABLE BELOW FOR HOSE LOCATIONS

**GREASE HOSE LOCATION, P/N, AND LENGTH**

| ITEM | HOSE LOCATION           | RIGHT  | LEFT   | LENGTH |
|------|-------------------------|--------|--------|--------|
| 25   | TO REAR SLACK           | 142445 | 142445 | 102"   |
|      | TO REAR INNER CAMSHAFT  | 142445 | 142445 | 102"   |
|      | TO REAR OUTER CAMSHAFT  | 142445 | 142445 | 102"   |
| 26   | TO FRONT INNER CAMSHAFT | 142450 | 142450 | 144"   |
|      | TO FRONT SLACK          | 142450 | 142450 | 144"   |
|      | TO FRONT OUTER CAMSHAFT | 142450 | 142450 | 144"   |
| 27   | TO FRONT FOLLOWER       | 142455 | 142455 | 217"   |
|      | HOLD DOWN FOLLOWER      | 142455 | 142455 | 217"   |
| 28   | TO REAR FOLLOWER        | 142466 | 142466 | 94"    |



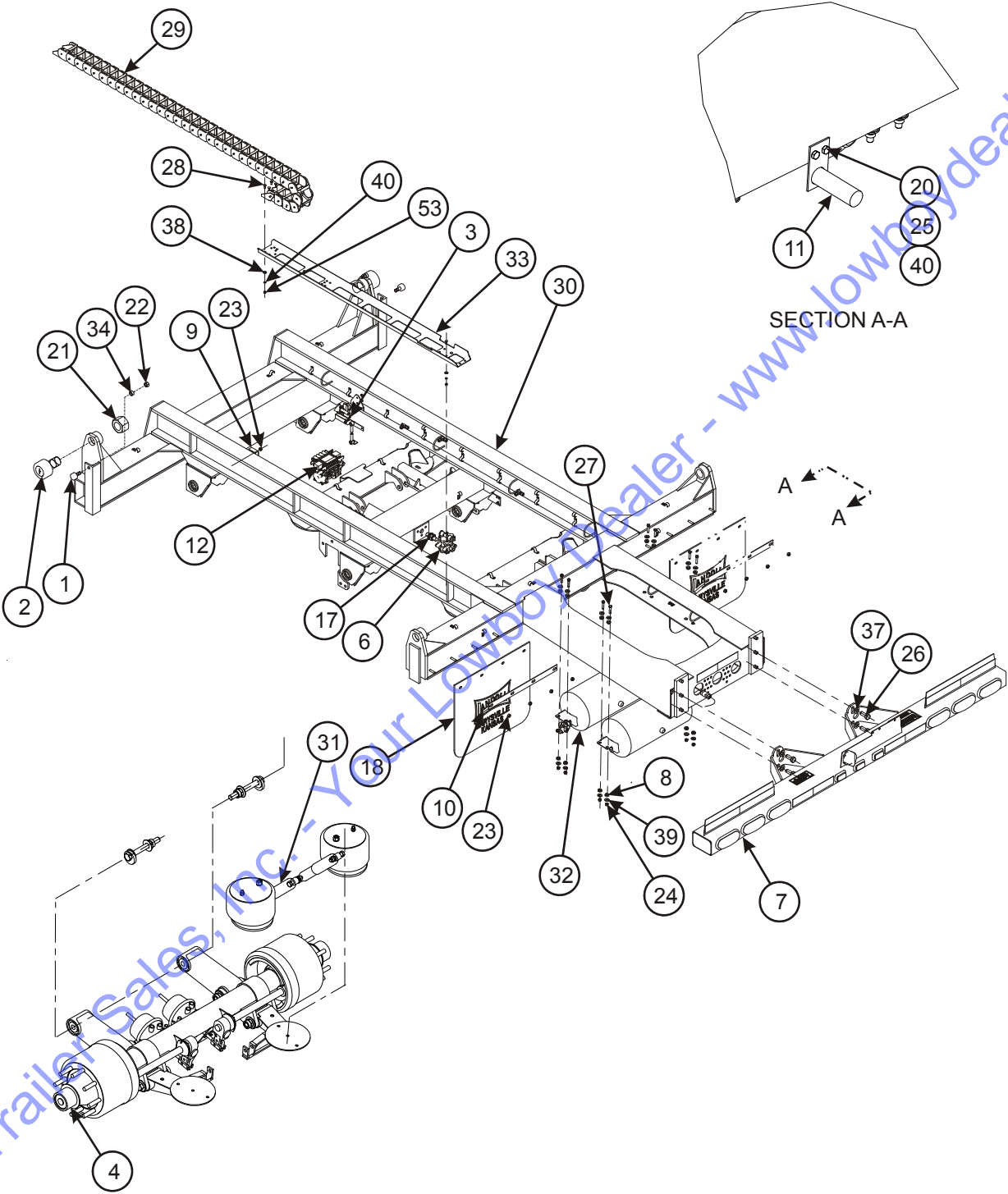
3ma762-010691

Figure 2-15: Suspension Assembly - Spring Ride



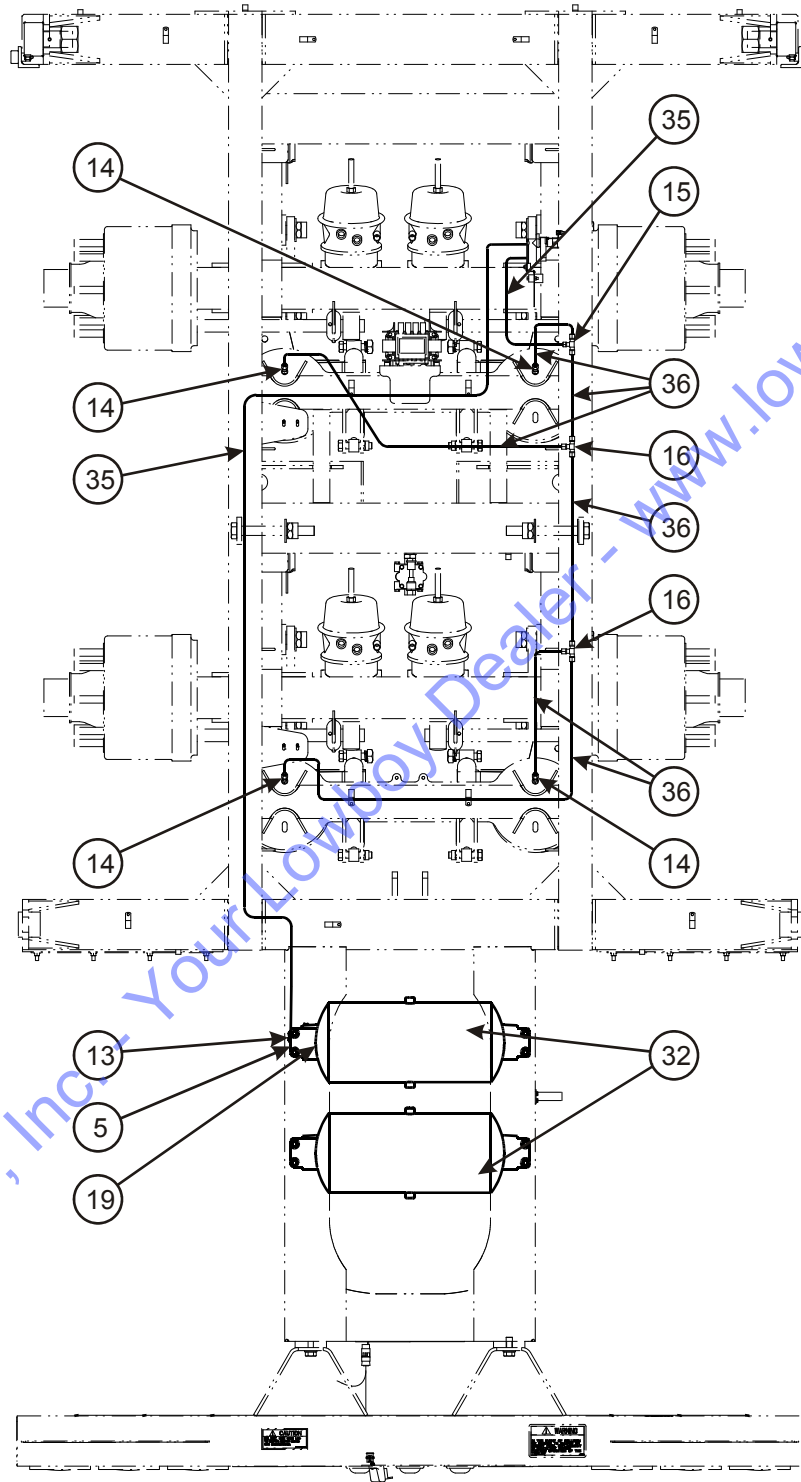
**SUSPENSION ASSEMBLY - SPRING RIDE**

| ITEM | PART NO.       | DESCRIPTION                                           | QTY. |
|------|----------------|-------------------------------------------------------|------|
|      | 115723         | SUSPENSION ASSEMBLY, SPRING REAR                      |      |
|      | 3-762-010691-1 | SUSPENSION ASSY S/R 70.5 39-1/2 SPG CTR               |      |
| 1    | 115703         | AXLE 70-1/2 12-1/4X7-1/2 BRAKE SPG25K (SEE PAGE 2-35) | 2    |
| 2    | 3-720-010030   | SPRING, MONO LEAF HI ARCH                             | 4    |
| 3    | 1035-20        | ADJUSTABLE TORQUE ARM                                 | 2    |
| 4    | 0075-20        | RIGID TORQUE ARM                                      | 2    |
| 5    | 0001-08        | BOLT, 7/8-14 X 5-1/4 GR5                              | 4    |
| 6    | 14345-01       | LOCKNUT, 7/8-14                                       | 4    |
| 7    | 0508-00        | BOTTOM PLATE, SINGLE LEAF                             | 4    |
| 8    | 24213-130      | U-BOLT, 3/4 X 13                                      | 8    |
| 9    | 0647-01        | AXLE SEAT, 1" HIGH SINGLE LEAF                        | 4    |
| 10   | 0375-00        | DELRIN LINER, SINGLE LEAF                             | 4    |
| 11   | T7292          | WASHER, 7/8                                           | 4    |
| 12   | 14344-01       | LOCKNUT, 3/4                                          | 16   |
| 13   | 20852-01       | WASHER. 3/4                                           | 16   |
|      | 3-432-010006   | KIT, AXLE SPRING ATTACH. PARTS (INCL. ITEMS 3-13)     |      |



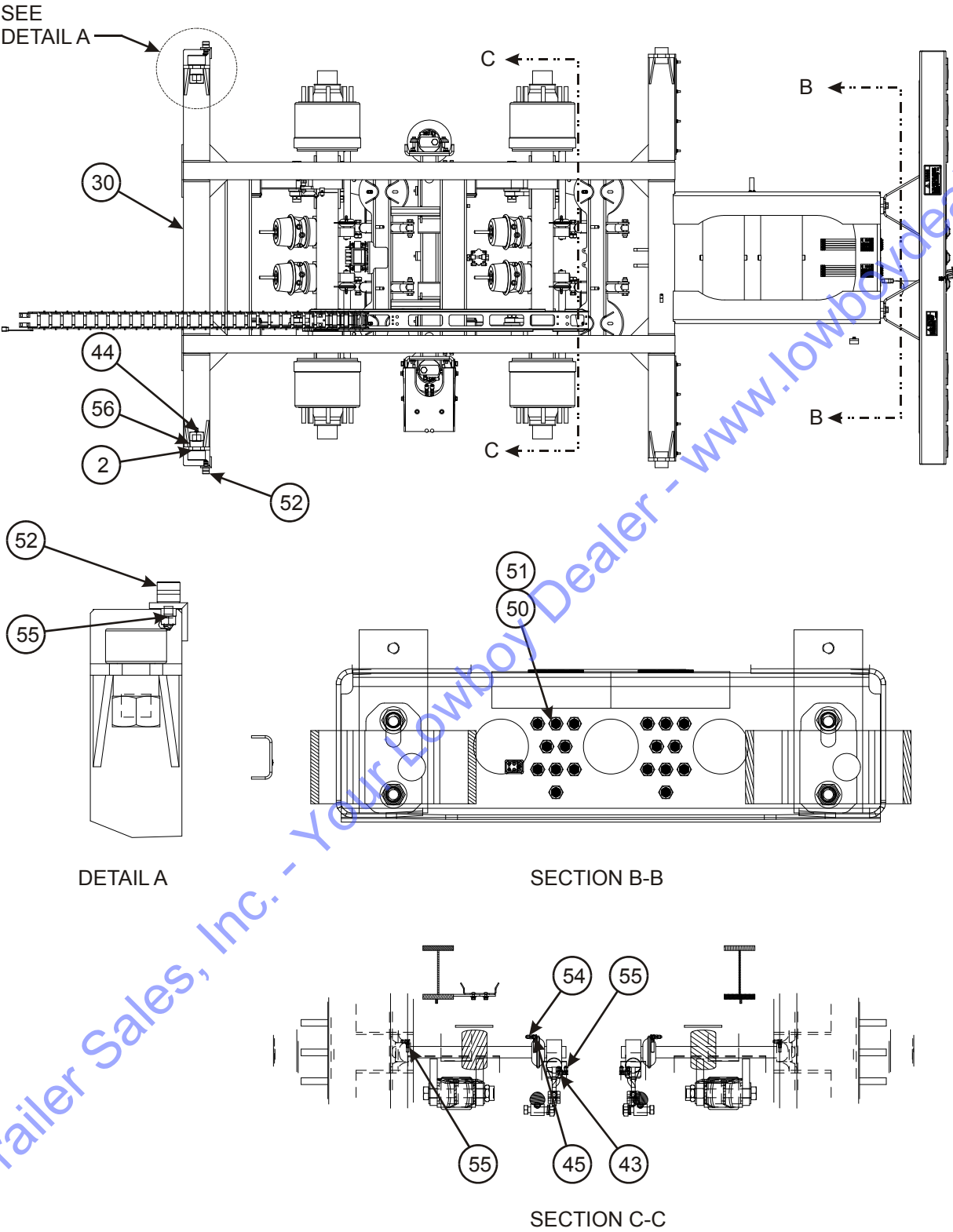
m143037p1

Figure 2-16: Undercarriage Assembly - Air Ride (1 of 3)



m143037p2

Figure 2-17: Undercarriage Assembly - Air Ride (2 of 3)



m143037p3

Figure 2-18: Undercarriage Assembly - Air Ride (3 of 3)

**UNDERCARRIAGE ASSY - AIR RIDE**

| ITEM | PART NO.        | DESCRIPTION                                                                     | QTY. |
|------|-----------------|---------------------------------------------------------------------------------|------|
|      | ----            | UNDERCARRIAGE ASSY A/R 102 W/O D/L BRACKET                                      |      |
| 1    | 3-076-010006    | CAM FOLLOWER 1-1/2                                                              | REF  |
| 2    | 3-076-010005    | CAM FOLLOWER 4"                                                                 | 2    |
| 3    | 102732          | AIR CONTROL KIT (SEE PAGE 2-29)                                                 | 1    |
| 4    | 115742          | AXLE WELDMENT D2212-SPG-70.5<br>(FOR PARTS BREAKDOWNS, SEE PAGES 2-33 AND 2-35) | 2    |
| 5    | 905-54-107      | BRAKE PROTECTION VALVE                                                          | REF  |
| 6    | 145689          | BRAKE, ABS TANDEM A/R (SEE PAGE 2-31)                                           | 1    |
| 7    | 119580          | BUMPER WELDMENT E/P                                                             | 1    |
| 8    | 805-2           | BUSHINGS STEP                                                                   | 16   |
| 9    | 2-181-010001    | CLAMP                                                                           | 3    |
| 10   | 3-762-010017    | CLAMP MUD FLAP                                                                  | 2    |
| 11   | 101852          | DIAGNOSTIC CABLE WITH SWITCH                                                    | 1    |
| 12   | 114588          | ECU/VALVE ASSEMBLY 4S/2M                                                        | REF  |
| 13   | 1-297-010008-07 | FITTING, AIR 90                                                                 | 1    |
| 14   | 1-297-010013-11 | FITTING, AIR 45                                                                 | 4    |
| 15   | 1-297-010010-04 | FITTING, AIR UNION TEE                                                          | 1    |
| 16   | 1-297-010010-03 | FITTING, AIR UNION TEE 3/8                                                      | 2    |
| 17   | 55B61           | FRAME UNION                                                                     | REF  |
| 18   | 3-485-010001    | FLAP MUD 21IN                                                                   | 2    |
| 19   | 2083-8-4S       | NIPPLE, HEX                                                                     | 1    |
| 20   | 1-512-010007-05 | NUT HEX 1/4-20 GRB                                                              | 22   |
| 21   | 104034          | NUT, HEX 2-12 GRB                                                               | 2    |
| 22   | 134168          | NUT, HEX 5/8-18 GRB                                                             | REF  |
| 23   | 1-510-010001    | NUT 3/8-16 FLANGE LOCK                                                          | 11   |
| 24   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                                                        | 8    |
| 25   | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5                                              | 2    |
| 26   | 1-654-010032-4  | SCREW, HEX HEAD CAP 3/4-10 X 1-3/4 GR8                                          | 12   |
| 27   | 1-654-010051-08 | SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5                                           | 8    |
| 28   | 1-654-010158-1  | SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR5                                         | 20   |
| 29   | 3-755-010189-03 | SUPPORT E-CHAIN                                                                 | 1    |
|      | 3-755-010189-1  | LINK                                                                            | 1    |
|      | 380-1           | END MOUNTING BRACKET WITH HOLE                                                  | 2    |
|      | 380-2           | END MOUNTING BRACKET WITH PIN                                                   | 2    |
| 30   | 142395          | SUSPENSION WELDMENT 102 A/R                                                     | 1    |
| 31   | 102363          | SUSPENSION ADJ. RLU-228-3.5 (SEE PAGE 2-33)                                     | 2    |
| 32   | 3-780-010002    | TANK AIR 9.5X22.5 5 PORTS                                                       | 2    |
| 33   | 3-821-010005    | TRAY CAT-TRACK                                                                  | 1    |
| 34   | RRT159X0.5      | TUBE ROUND 1 X 11/16 X 1/2                                                      | REF  |
| 35   | 1-833-010001    | TUBING, NYLON 1/4                                                               | 13   |
| 36   | 1-833-010002    | TUBING, NYLON 3/8                                                               | 13   |
| 37   | 622-3511-008    | WASHER 3/4 MIL-CARB FL 345A                                                     | 14   |
| 38   | 1-861-010032-07 | WASHER FLAT 1/4                                                                 | 20   |
| 39   | 1-861-010032-11 | WASHER FLAT 3/8                                                                 | 16   |
| 40   | 1-861-010034-09 | WASHER SPLIT LOCK 1/4                                                           | 22   |
| 42   | 1-796-010003-02 | TIE STRAP PLASTIC .18 X 14 (NOT SHOWN)                                          | AR   |
| 43   | 101528          | ELBOW, BRASS PIPE STREET                                                        | 4    |
| 44   | 113268          | ADAPTER 90                                                                      | 1    |
| 45   | 121355          | ELBOW ST, 90                                                                    | 4    |

## UNDERCARRIAGE ASSY - AIR RIDE

| ITEM | PART NO.        | DESCRIPTION                       | QTY. |
|------|-----------------|-----------------------------------|------|
| 46   | *142445         | HOSE ASSEMBLY, GREASE 1/4 X 102   | 6    |
| 47   | *142450         | HOSE ASSEMBLY, GREASE 1/4 X 144   | 6    |
| 48   | *142455         | HOSE ASSEMBLY, GREASE 1/4 X 217   | 4    |
| 49   | *142466         | HOSE ASSEMBLY, GREASE 1/4 X 94    | 2    |
| 50   | 142545          | NUT, 7/16                         | 12   |
| 51   | 142553          | DECAL, GREASE TRAILER U/C         | 2    |
| 52   | 142555          | CAM FOLLOWER 1-1/2 DIA MOD GREASE | 2    |
| 53   | 1-512-010007-05 | NUT, HEX 1/4-20 GRB               | 3    |
| 54   | 2021-2-4        | ADAPTER, STRAIGHT                 | 4    |
| 55   | 2024-2-4S       | ADAPTER, ELBOW                    | 8    |
| 56   | 2045-4-4S       | ADAPTER, SWIVEL                   | 1    |

\* SEE TABLE BELOW FOR HOSE LOCATIONS

## GREASE HOSE LOCATION, P/N, AND LENGTH

| ITEM | HOSE LOCATION           | RIGHT  | LEFT   | LENGTH |
|------|-------------------------|--------|--------|--------|
| 46   | TO REAR SLACK           | 142445 | 142445 | 102"   |
|      | TO REAR INNER CAMSHAFT  | 142445 | 142445 | 102"   |
|      | TO REAR OUTER CAMSHAFT  | 142445 | 142445 | 102"   |
| 47   | TO FRONT INNER CAMSHAFT | 142450 | 142450 | 144"   |
|      | TO FRONT SLACK          | 142450 | 142450 | 144"   |
|      | TO FRONT OUTER CAMSHAFT | 142450 | 142450 | 144"   |
| 48   | TO FRONT FOLLOWER       | 142455 | 142455 | 217"   |
|      | HOLD DOWN FOLLOWER      | 142455 | 142455 | 217"   |
| 49   | TO REAR FOLLOWER        | 142466 | 142466 | 94"    |

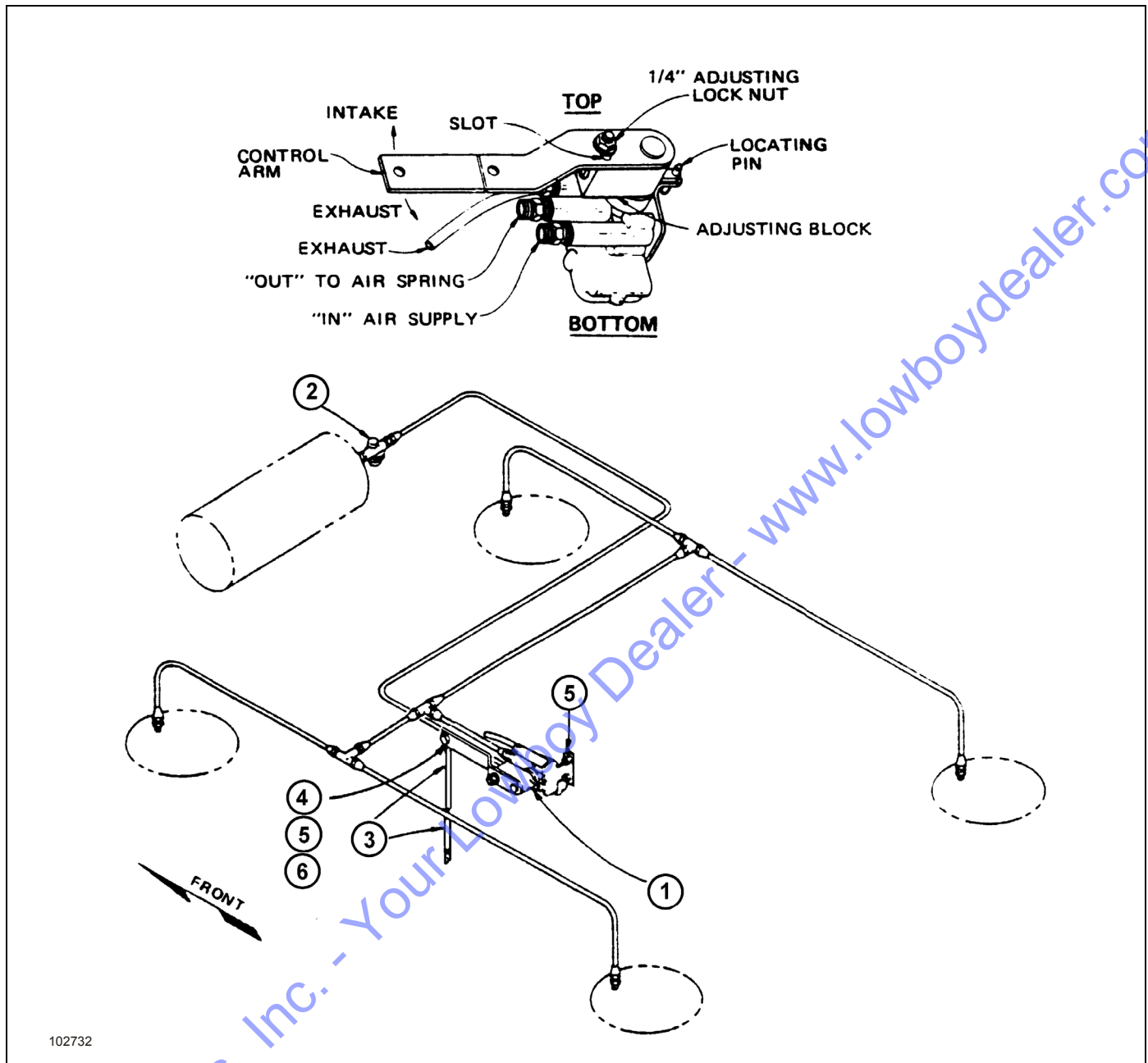
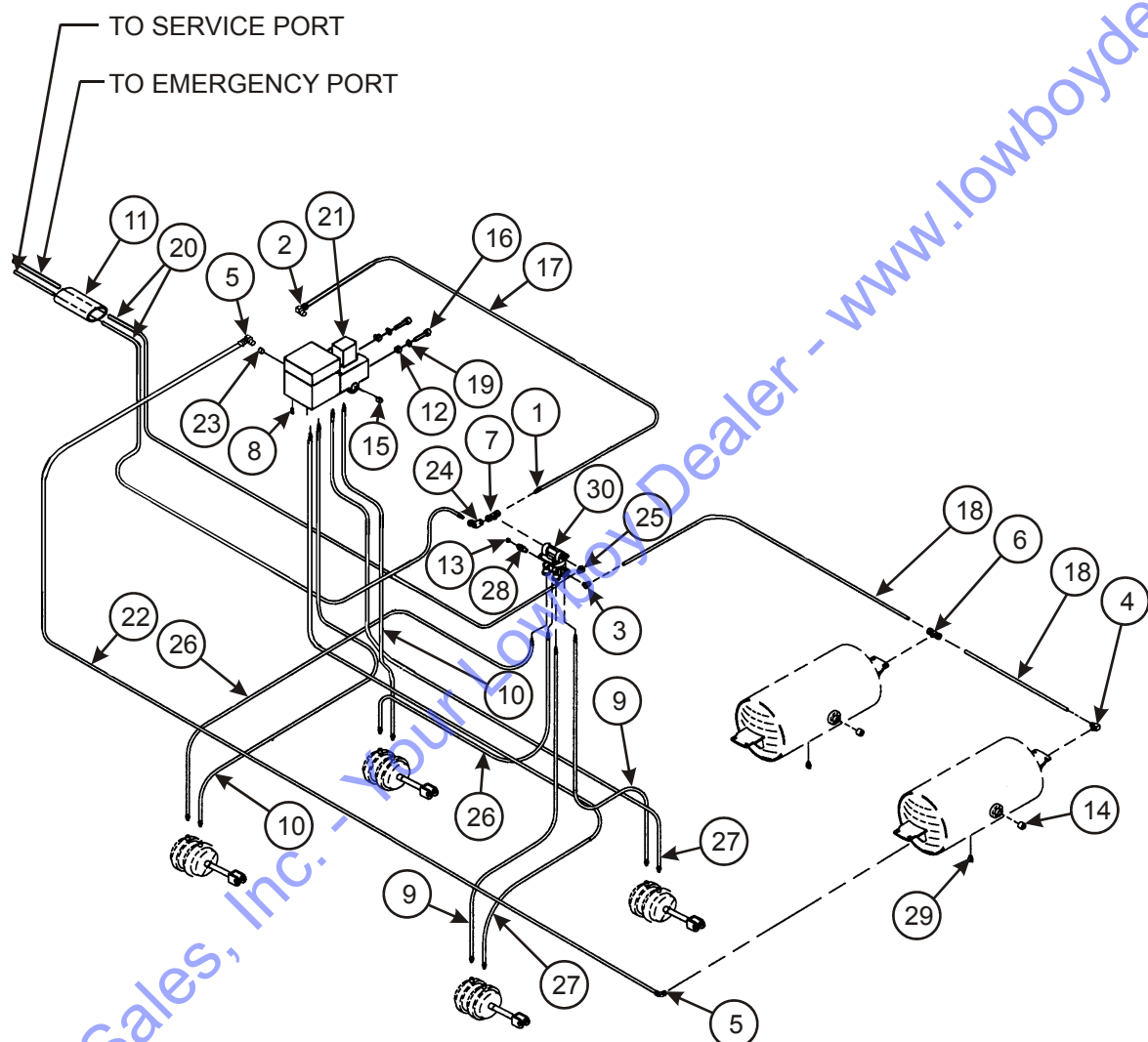


Figure 2-19: Air Control Kit

## AIR CONTROL KIT

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 102732          | AIR CONTROL KIT                        |      |
| 1    | 900 54 007      | HEIGHT CONTROL VALVE                   | 1    |
| 2    | 905-54-107      | AIR PRESSURE PROTECTION VALVE & FILTER | 1    |
| 3    | 111021          | SRK-167 KIT (ADJ. LINK ASSEMBLY)       | 1    |
| 4    | 1-654-010047-04 | CAP SCREW 1/4-20 X 3/4                 | 2    |
| 5    | 1-512-010005-01 | LOCK NUT 1/4-20                        | 2    |
| 6    | 941 00 119      | DECAL (OPERATING)                      | 1    |



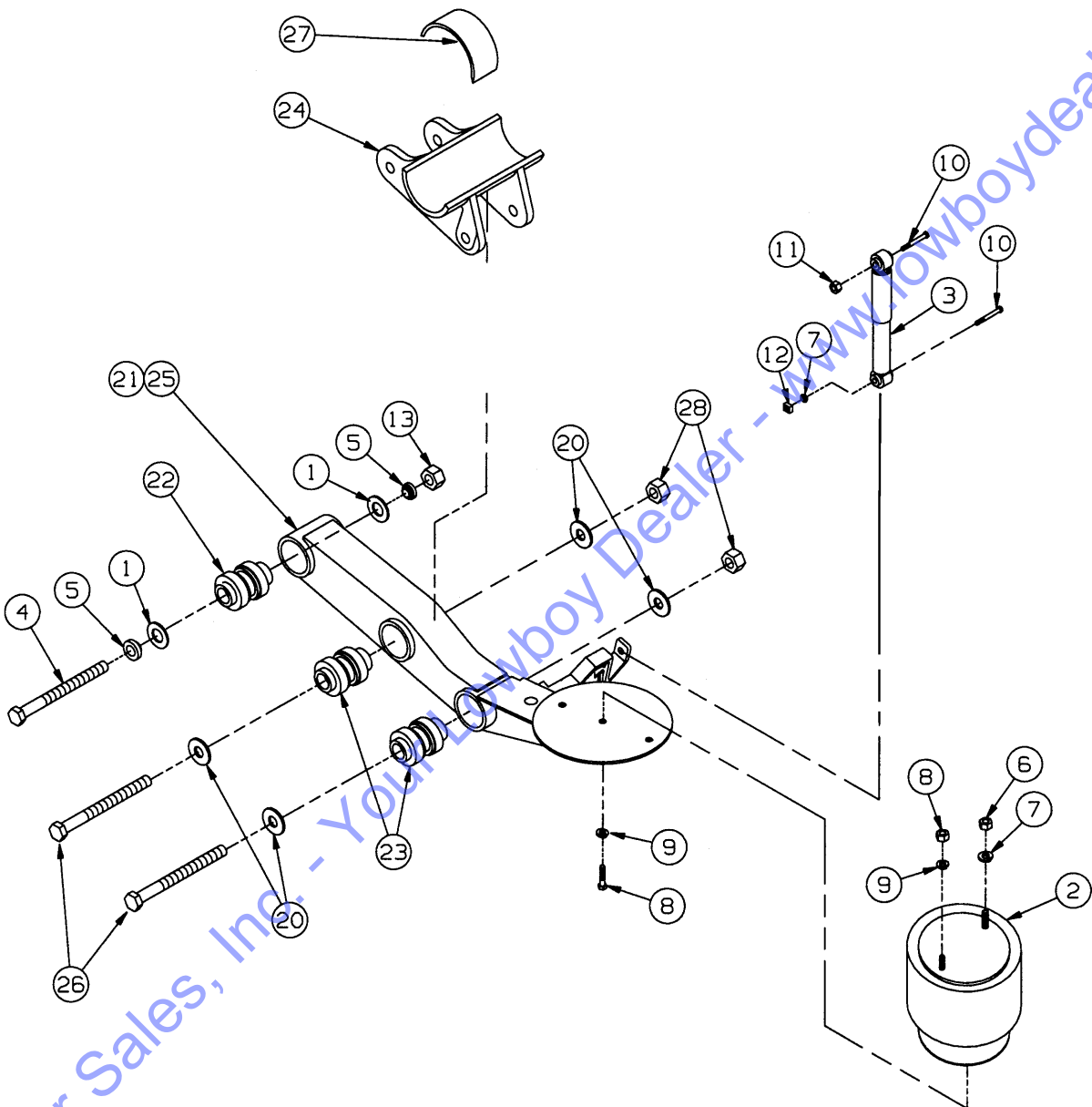
m145689

Figure 2-20: Air Brake System



**AIR BRAKE SYSTEM**

| ITEM | PART NO.        | DESCRIPTION                               | QTY. |
|------|-----------------|-------------------------------------------|------|
|      | 145689          | BRAKE ABS TANDEM AXLE A/R                 |      |
| 1    | 1-297-010007-12 | FITTING, AIR                              | 1    |
| 2    | 1-297-010008-18 | FITTING, AIR 90                           | 1    |
| 3    | 1-297-010008-23 | FITTING, AIR 90                           | 1    |
| 4    | 1-297-010008-24 | FITTING, AIR 90                           | 1    |
| 5    | 1-297-010008-26 | FITTING, AIR 90                           | 2    |
| 6    | 1-297-010015-11 | FITTING, AIR BRANCH TEE                   | 21   |
| 7    | 1-297-010017-03 | FITTING, BRASS PIPE 3/8                   | 1    |
| 8    | 1-297-010033-03 | FITTING, BRASS PLUG HEX                   | 2    |
| 9    | 1-384-010038024 | HOSE, AIR 3/8 X 24                        | 2    |
| 10   | 1-384-010038038 | HOSE, AIR 3/8 X 38                        | 2    |
| 11   | 1-394-010001    | HOSE ABRASION SLEEVE X 2                  | AR   |
| 12   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                  | 2    |
| 13   | 1-560-010002-02 | PLUG, PIPE 1/4                            | 1    |
| 14   | 1-560-010002-04 | PLUG, PIPE 1/2                            | 5    |
| 15   | 1-560-010002-05 | PLUG, PIPE 3/4-14                         | 1    |
| 16   | 1-654-010051-08 | SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5    | 2    |
| 17   | 1-833-010002    | TUBING, NYLON 3/8                         | AR   |
| 18   | 1-833-010003    | TUBING, NYLON 1/2                         | AR   |
| 19   | 1-861-010032-10 | WASHER, FLAT 3/8N                         | 4    |
| 20   | 100948          | HOSE, AIR 3/8 X 174                       | 2    |
| 21   | 114584          | ABS BRAKE KIT WABCO 4S/2M (SEE PAGE 2-37) | 1    |
| 22   | 117304          | TUBING NYLON 5/8                          | AR   |
| 23   | 118-2659-9      | BUSHING 1/2 X 3/4                         | 1    |
| 24   | 2088-6-6S       | ADAPTER, 45                               | 1    |
| 25   | 2089-6-6S       | ADAPTER, 90                               | 1    |
| 26   | 3-384-010020    | HOSE, AIR 3/8 X 32                        | 2    |
| 27   | 3-384-010025    | HOSE, AIR 3/8 X 50                        | 2    |
| 28   | 55B61           | FRAME UNION                               | 1    |
| 29   | 56D4            | COCK, DRAIN AIR TANK                      | 2    |
| 30   | 758-181         | VALVE, TASK 4 PORT                        | 1    |



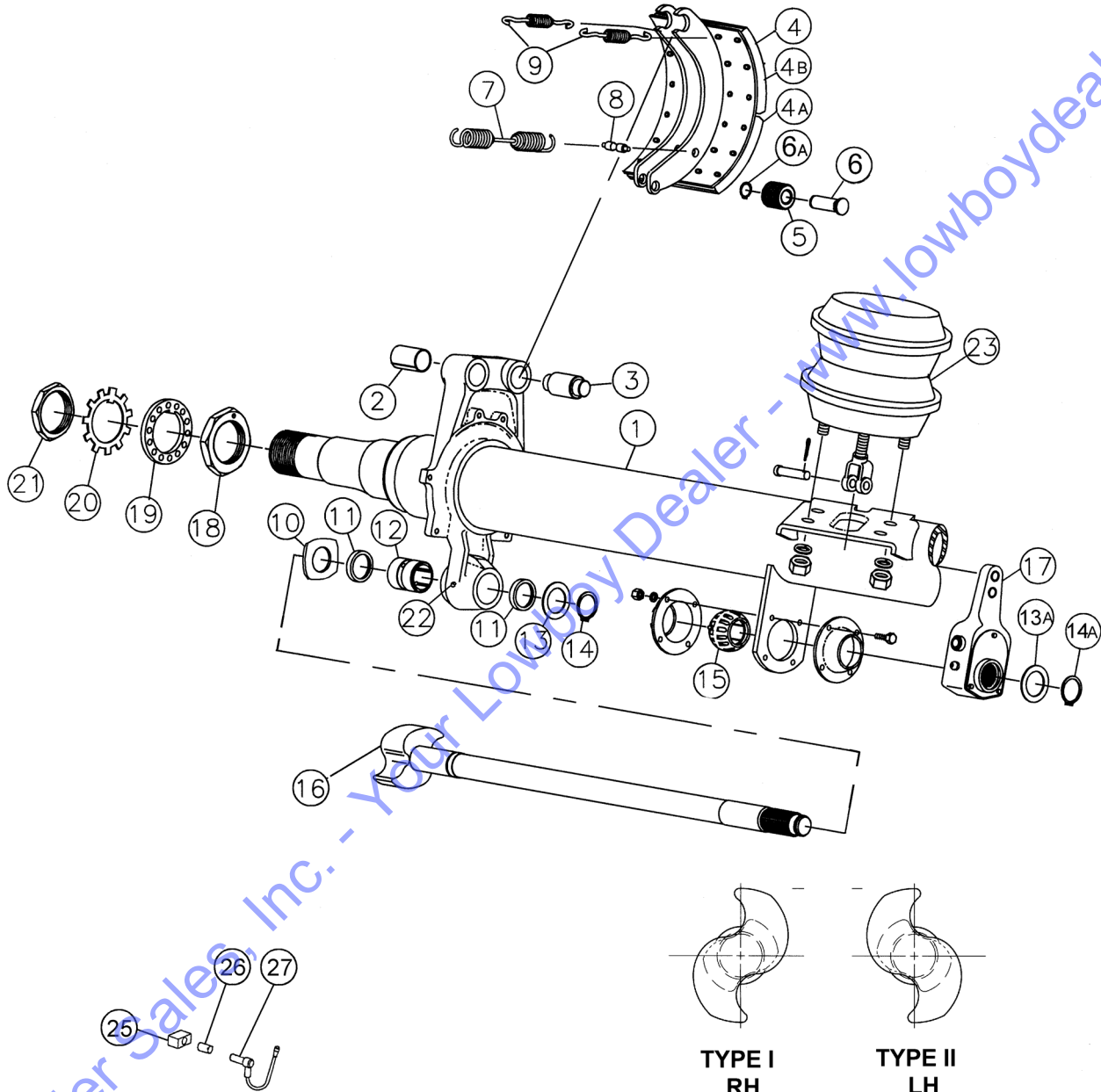
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Figure 2-21: Suspension Hanger Assembly RLU-228

**SUSPENSION HANGER RLU-228**

| ITEM | PART NO.        | DESCRIPTION                                                       | QTY. |
|------|-----------------|-------------------------------------------------------------------|------|
|      | 102363          | SUSPENSION, ADJ. RLU-228-3.5 (INCL ITEMS 1-19)                    |      |
|      | 102361          | SUSPENSION, BEAM. RLU-228 (INCL ITEMS 20-28)                      |      |
| 1    | 111010          | WASHER, FLAT                                                      | 2    |
| 2    | 111020          | AIR SPRING ASSEMBLY                                               | 2    |
| 3    | 900 45 040      | SHOCK                                                             | 2    |
| 4    | 111006          | ALIGN BUSH ASSEMBLY (CONSISTS OF:)                                | 2    |
|      | 93201057        | ROD BOLT                                                          | 1    |
|      | 90008184        | ALIGN BLOCK                                                       | 1    |
| 5    | 111007          | ALIGN BLOCK                                                       | 2    |
| 6    | 934 00 149      | NUT, HEX 3/4-16 GRB                                               | 2    |
| 7    | 936 00 077      | WASHER, LOCK 3/4"                                                 | 4    |
| 8    | 1-512-010007-09 | NUT, HEX 1/2-13                                                   | 4    |
| 9    | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2"                                           | 4    |
| 10   | 105408          | SCREW, HEX HEAD CAP 3/4-10 X 3-1/2                                | 4    |
| 11   | 934-00-492      | LOCK NUT, 3/4" - 10                                               | 2    |
| 12   | 111022          | SQUARE NUT 3/4-10                                                 | 2    |
| 13   | 111008          | LOCK NUT 1-1/8-7                                                  | 2    |
| 14   | 111018          | ANCHOR, RIDE HEIGHT CONTROL VALVE (NOT SHOWN)                     | 1    |
| 15   | 94100787        | LITERATURE INSTRUCTIONS (NOT SHOWN)                               | 1    |
| 16   | 94100685        | LITERATURE SPEC (NOT SHOWN)                                       | 1    |
| 17   | 94100648        | LITERATURE FORM 864 (NOT SHOWN)                                   | 1    |
| 18   | 94100590        | LITERATURE LABEL (NOT SHOWN)                                      | 1    |
| 19   | 94100790        | LITERATURE LABEL (NOT SHOWN)                                      | 1    |
|      | 111019          | FASTENER KIT (INCL. 1, 4-11, 13, 15)                              | 1    |
| 20   | 111010          | FLAT WASHER                                                       | 8    |
| 21   | 111013          | EQUALIZING BEAM ASSEMBLY LH                                       | 1    |
| 22   | 900-08-139      | RUBBER BUSHING (FRONT PIVOT)                                      | 2    |
| 23   | 111011          | RUBBER BUSHING (AXLE CONNECTION)                                  | 4    |
| 24   | 111012          | AXLE ADAPTER ASSEMBLY                                             | 2    |
| 25   | 111014          | EQUALIZING BEAM ASSEMBLY RH                                       | 1    |
| 26   | 111023          | HEX HEAD CAP SCREW 1-1/8-7 X 8-1/2                                | 4    |
| 27   | 111015          | SAFETY STRAP                                                      | 2    |
| 28   | 111008          | LOCK NUT 1-1/8-7                                                  | 4    |
|      | 109533          | ALIGNMENT BLOCK ASSEMBLY (INCL. 1, 4-5, 13, 22)<br>(ONE PER SIDE) |      |

NOTE: QUANTITIES LISTED ARE PER AXLE.



TYPE I  
RH

TYPE II  
LH

**VIEWED FROM HEAD END**

**NOTE: RH does not necessarily correspond w/ RH side of trailer.**

m115703a

**Figure 2-22: Axle and Brake Assembly**

## AXLE AND BRAKE ASSEMBLY

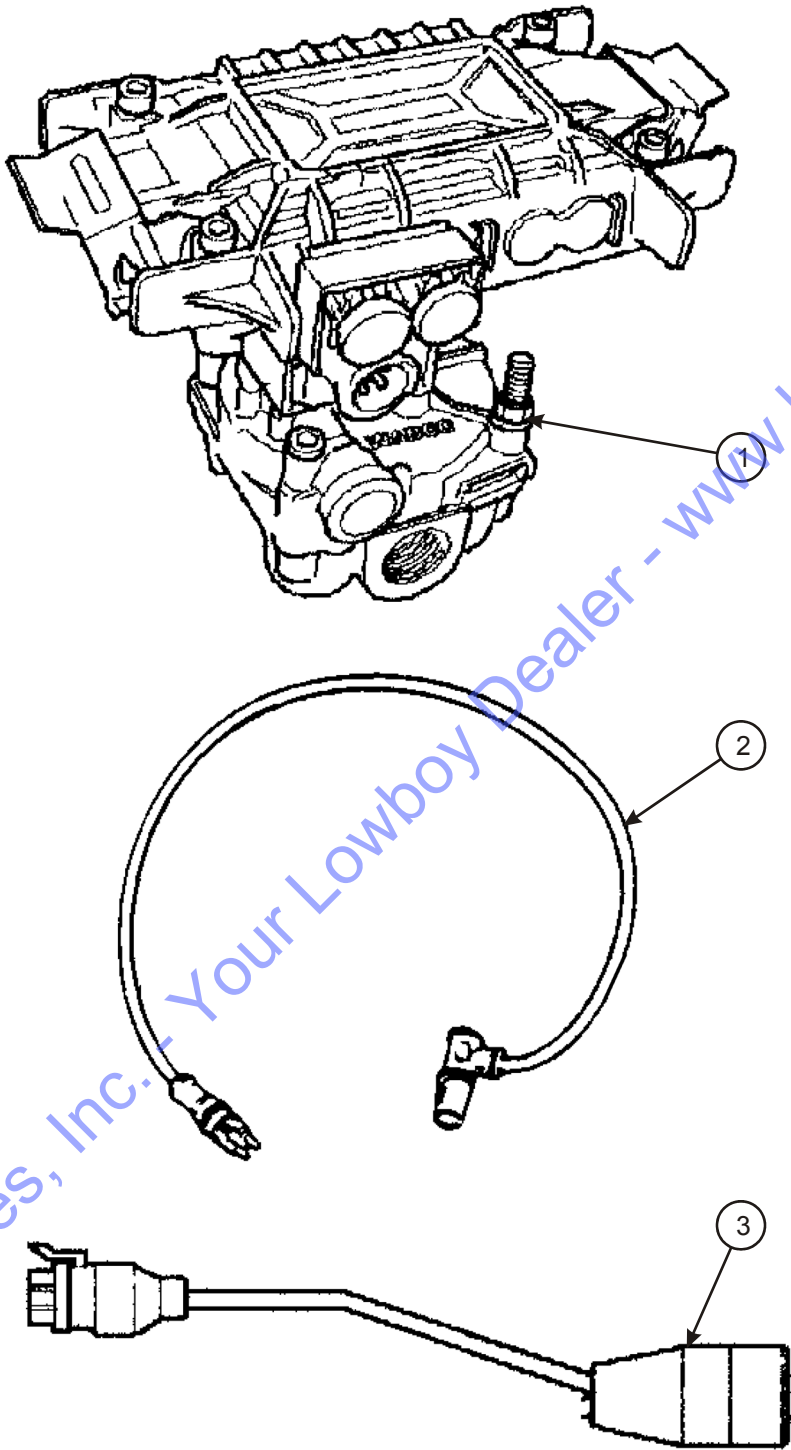
| ITEM   | PART NO.      | DESCRIPTION                                             | QTY. |
|--------|---------------|---------------------------------------------------------|------|
|        | 115703        | AXLE 70.5", 12.25 X 7.5 SPG BK 25K (INCL. ITEMS 1 - 23) | 2    |
| 1A*    | D-2H12        | BEAM W/ BRACKETS                                        | 1    |
|        | **K71-460-00  | BRAKE SHOE HDWR KIT (ITEMS 2, 3, 5, 6, 6A, 7, & 8)      |      |
| **2    | 014-068-00    | BUSHING -SPIDER ANCHOR PIN                              | 4    |
| **3    | 056-017-00    | ANCHOR PIN                                              | 4    |
| 4      | 040-320-01    | SHOE AND LINING ASSEMBLY                                | 4    |
| 4A     | 041-060-01    | LINING - BRAKE BLOCK CAM                                | 4    |
| 4B     | 041-057-01    | LINING - BRAKE BLOCK ANCHOR                             | 4    |
|        | K71-133-00    | BRAKE BLOCK KIT (ITEMS 4A AND 4B)                       | 4    |
| **5    | 014-057-00    | ROLLER                                                  | 4    |
| **6    | 056-010-00    | PIN ROLLER                                              | 4    |
| **6A   | 069-018-00    | RETAINING PIN ROLLER                                    | 4    |
| **7    | 046-092-00    | SPRING - SHOE RETRACTOR                                 | 2    |
| **8    | 056-018-00    | RETAINER PIN - RETRACTOR SPRING                         | 4    |
| **9    | 046-097-00    | KEEPER SPRING                                           | 4    |
|        | ***K71-101-00 | CAMSHAFT REPAIR KIT (ITEMS 10-15, & 22)                 |      |
| ***10  | 005-074-00    | WASHER - CAMSHAFT "D"                                   | 2    |
| ***11  | 010-052-00    | GREASE SEAL                                             | 4    |
| ***12  | 014-056-00    | BUSHING - CAMSHAFT SPIDER                               | 2    |
| ***13  | 005-075-00    | WASHER - CAMSHAFT                                       | 2    |
| ***13A | 005-134-00    | WASHER- CAMSHAFT END                                    | 2    |
| ***14  | 069-020-00    | RETAINER - CAMSHAFT                                     | 2    |
| ***14A | 069-078-00    | RETAINER - CAMSHAFT END                                 | 2    |
| **15   | 014-058-00    | BUSHING - CAMSHAFT SUPPORT                              | 2    |
| 16     | 034-188-03    | CAMSHAFT LH 70.5" AXLE                                  | 1    |
|        | 034-189-03    | CAMSHAFT RH 70.5" AXLE                                  | 1    |
| 17     | 156655        | SLACK ADJUSTER - AUTOMATIC                              | 2    |
|        | 127779        | CLEVIS MOUNTING KIT                                     |      |
| 18     | 006-114-00    | NUT - INNER SPINDLE BEARING                             | 2    |
| 19     | 005-098-00    | LOCKWASHER - INDEXING                                   | 2    |
| 20     | 005-099-00    | LOCKWASHER - TAB                                        | 2    |
| 21     | 006-115-00    | NUT - OUTER SPINDLE                                     | 2    |
| ***22  | 061-006-00    | GREASE FITTING 45°                                      | 2    |
| 23     | 034-058-07    | AIR CHAMBER ASSEMBLY                                    | 2    |
| 25     | 103805        | SENSOR BLOCK                                            | 2    |
| 26     | 097-002-00    | RETAINER CLIP                                           | 2    |
| 27     | 128550        | ABS SENSOR, 90                                          | 2    |

\* WHEN ORDERING THE BEAM WITH SPINDLE, SPIDER, AND BRACKETS ATTACHED, YOU WILL NEED THE BEAM NUMBER, TRACK LENGTH, BRAKE SIZE, AND CAMSHAFT LENGTH

\*\* THESE PARTS ARE AVAILABLE AS PART OF BRAKE SHOE REPAIR KIT LISTED.

\*\*\* THESE PARTS ARE AVAILABLE AS PART OF CAMSHAFT REPAIR KIT LISTED.

NOTE: FOR HUB AND DRUM INFORMATION, SEE PAGE 2-39.



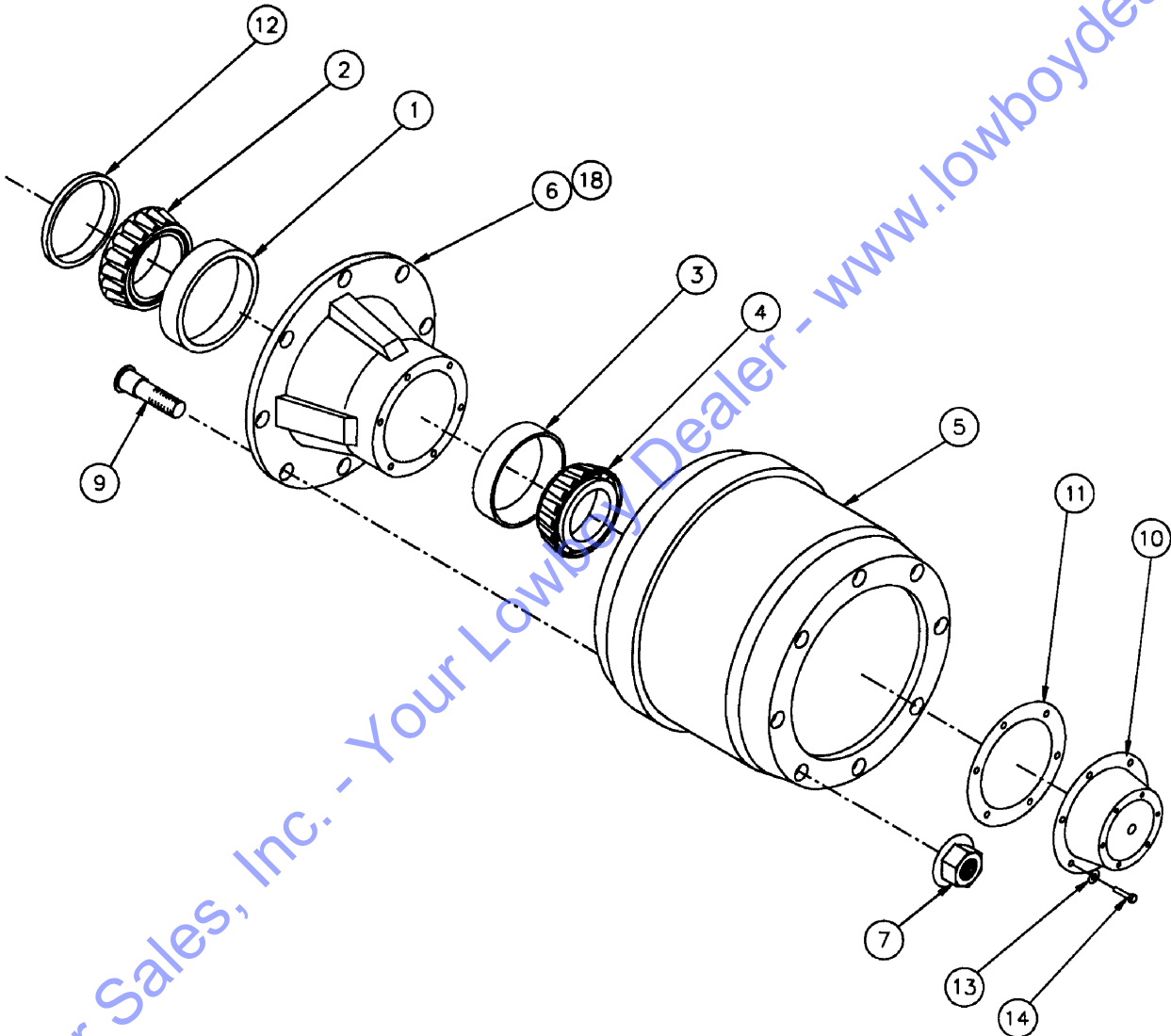
ma114584

Figure 2-23: Brake Kit, Rockwell ABS 4S/2M

**ABS BRAKE KIT**

| ITEM | PART NO. | DESCRIPTION                      | QTY. |
|------|----------|----------------------------------|------|
|      | 114584   | ABS BRAKE KIT 4S/2M              |      |
| 1    | 114588   | ECU/VALVE ASSEMBLY               | 1    |
| 2    | 101848   | SENSOR EXTENSION CABLE 6FT       | 4    |
| 3    | 114590   | POWER/DIAGNOSTIC CABLE 4.0M/3.0M | 1    |

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HUBOABS2

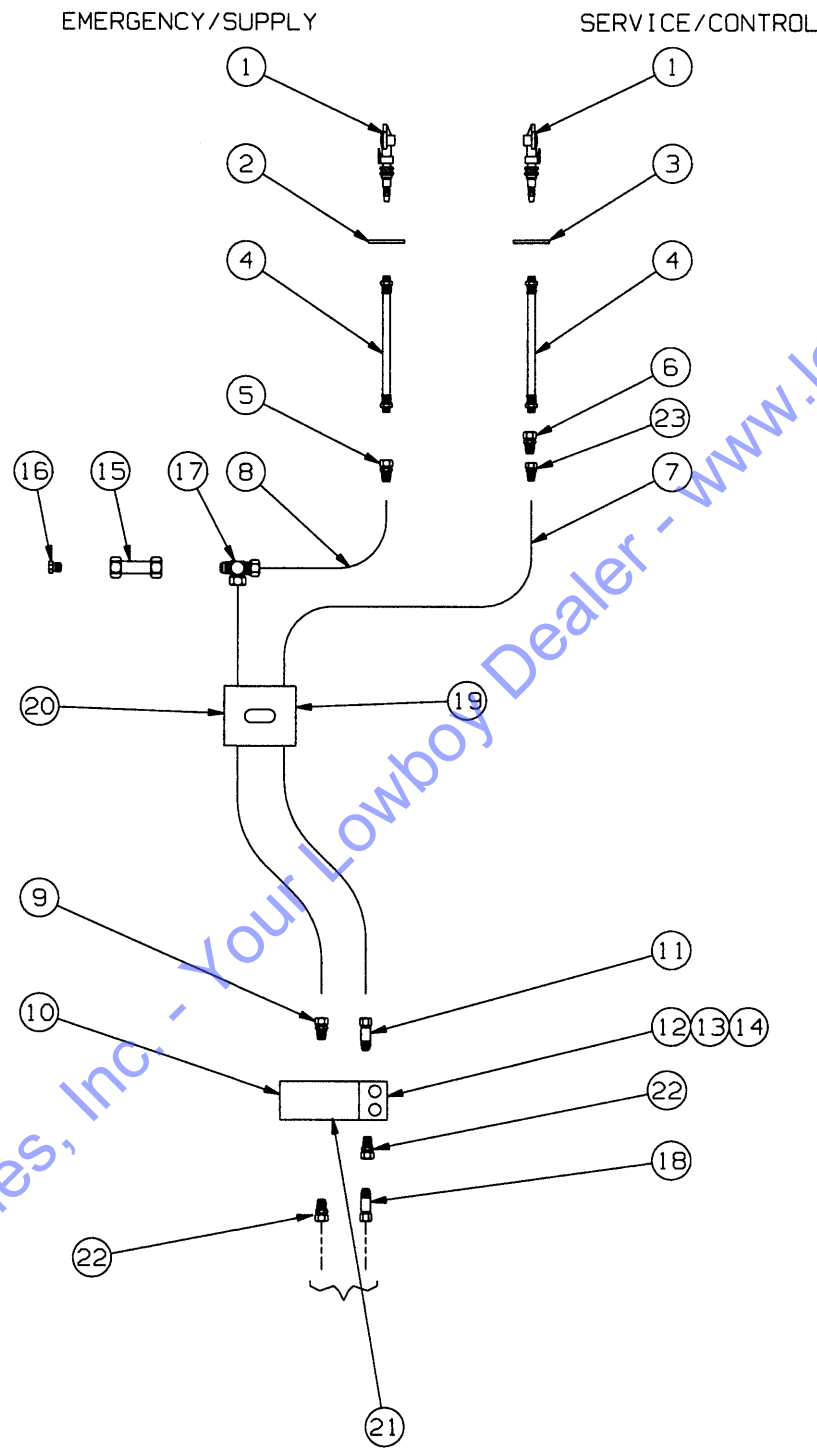
Figure 2-24: Outboard Hub and Drum Assembly



## OUTBOARD PILOT MOUNT HUB AND DRUM ASSEMBLY

| ITEM | PART NO.        | DESCRIPTION                                                       | QTY. |
|------|-----------------|-------------------------------------------------------------------|------|
| 1    | HM218210        | INNER BEARING CUP                                                 | 1    |
| 2    | HM218248        | INNER BEARING CONE                                                | 1    |
| 3    | HM212011        | OUTER BEARING CUP                                                 | 1    |
| 4    | HM212049        | OUTER BEARING CONE                                                | 1    |
| 5    | 63680           | OUTBOARD MOUNTED BRAKE DRUM                                       | 1    |
| 6    | 112493          | HUB IRON 80 TH TONER RING                                         | 1    |
| 7    | 179933          | FLANGE NUT                                                        | 8    |
| 9    | 113536          | STUD                                                              | 8    |
| 10   | 4009            | CAP HUB                                                           | 1    |
| 11   | 3067            | GASKET OIL CAP                                                    | 1    |
| 12   | 3-659-010012    | SEAL                                                              | 1    |
| 13   | 1-861-010034-10 | WASHER SPLIT LOCK 5/16                                            | 6    |
| 14   | 1-654-010049-03 | SCREW HEX HEAD CAP 5/16-18 X 3/4 GR5                              | 6    |
| 15   | 100402          | WHEEL, ALUM PILOT MOUNT 17.5 X 6.75 (8 BOLT)                      | 1    |
|      | 3-870-010097    | WHEEL, DISC PILOT MOUNT 17.5 X 6.75 (8 BOLT)                      | 1    |
|      | 3-870-010012    | WHEEL, ALUM PILOT MOUNT 17.5 X 6.75 (8 BOLT)<br>(NOT SHOWN)       | 1    |
| 16   | TR573           | VALVE STEM - STEEL WHEEL (NOT SHOWN)                              | 1    |
|      | 100401          | VALVE STEM TR543C - ALUMINUM WHEEL (NOT SHOWN)                    | 1    |
| 17   | 1-843-010014    | VALVE, EXTENSION, STEM 3" (USED W/ 12-1/4" BRAKES)<br>(NOT SHOWN) | 1    |
| 18   | *               | ABS TONE RING                                                     | 1    |

\* THIS PART SHOULD BE REPLACED IN CONJUNCTION WITH THE HUB. IT SHOULD NEVER BE SOLD SEPARATELY.

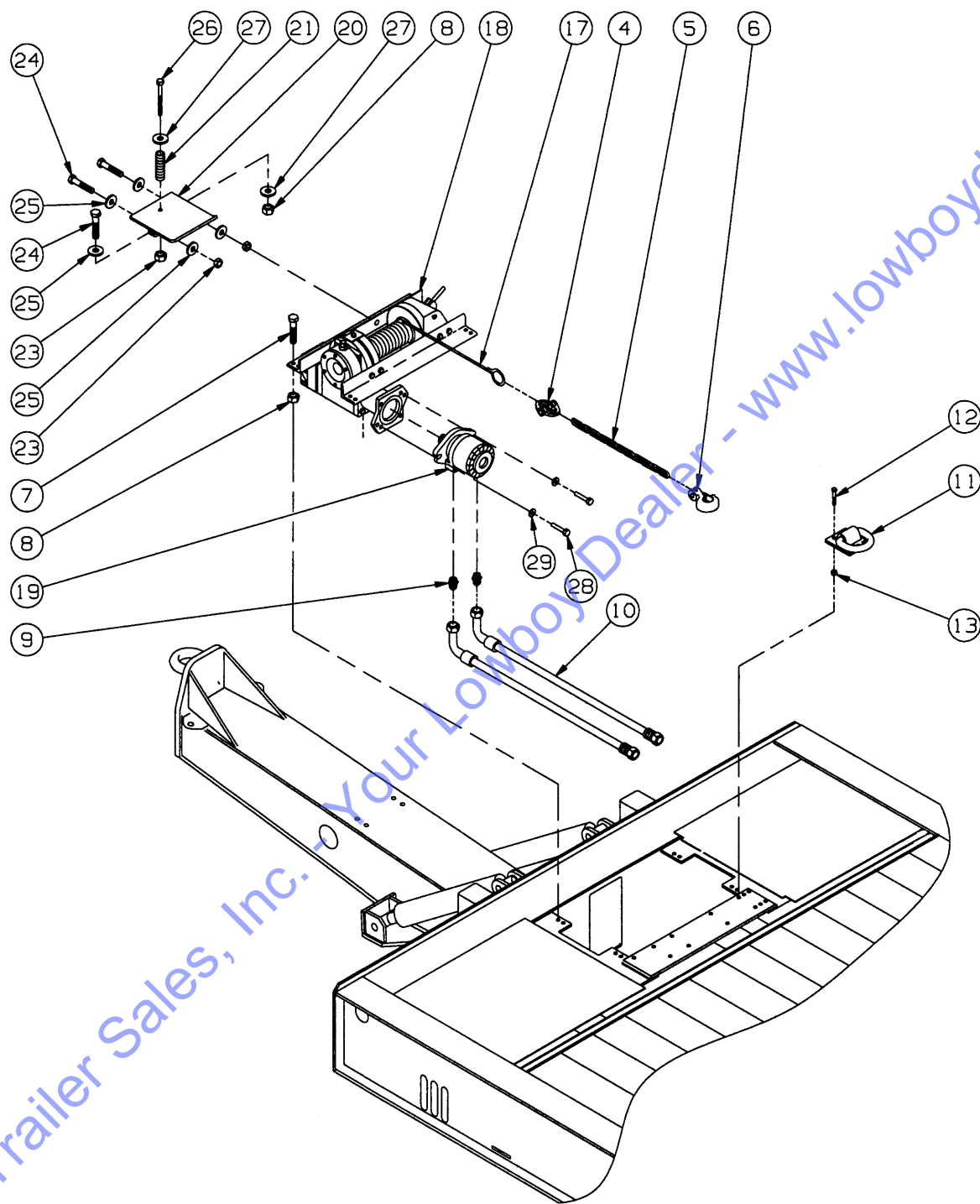


3ma128-010042

Figure 2-25: Air System, Main

**AIR SYSTEM, MAIN**

| ITEM | PART NO.        | DESCRIPTION                                       | QTY. |
|------|-----------------|---------------------------------------------------|------|
| 1    | 108801          | GLAD HAND RED AIR                                 | 1    |
|      | 108802          | GLAD HAND BLUE AIR                                | 1    |
| 2    | 55B61-6         | TAG EMERGENCY LINE                                | 1    |
| 3    | 55B61-7         | TAG SERVICE LINE                                  | 1    |
| 4    | 1-384-010041-2  | HOSE, AIR 1/2X102 WITH .50 ENDS                   | 2    |
| 5    | 1-297-010012-16 | FITTING, AIR FEMALE CONN 1/2 X 1/2                | 1    |
| 6    | 1-297-010021-05 | FITTING, BRASS PIPE REDUCER COUPLING 1/2 TO 3/8   | 1    |
| 7    | 1-833-010002    | NYLON TUBING, 3/8                                 | AR   |
| 8    | 1-833-010003    | NYLON TUBING, 1/2                                 | AR   |
| 9    | 1-297-010007-16 | FITTING, AIR 1/2X1/2                              | 1    |
| 10   | 1-560-010002-04 | PLUG, PIPE 1/2                                    | 1    |
| 11   | 1-297-010008-20 | FITTING, AIR 90 3/8X3/8                           | 1    |
| 12   | 1-654-010049-06 | SCREW, HEX HEAD CAP 5/16-18 X 1-1/4               | 2    |
| 13   | 1-512-010005-03 | NUT, HEX LOCK GRB 5/16-18                         | 2    |
| 14   | 1-861-010032-09 | WASHER, FLAT 5/16                                 | 2    |
| 15   | 1-297-010022-03 | FITTING, AIR 1-14 ANCHOR COUPLING                 | 1    |
| 16   | 1-297-010033-03 | FITTING, BRASS PLUG HEX 3/8                       | 1    |
| 17   | 1-297-010015-10 | FITTING, AIR MALE RUN TEE 1/2 X 3/8               | 1    |
| 18   | 2089-6-6S       | FITTING, AIR 90 3/8X1/2                           | 1    |
| 19   | 2-181-010001    | HOSE CLAMP                                        | 5    |
| 20   | 1-510-010001    | NUT, FLANGE LOCK 3/8-16                           | 5    |
| 21   | 3-843-010038    | VALVE AIR RELAY FAST AIR BAL (NO PARTS BREAKDOWN) | 1    |
| 22   | 2081-8-6S       | REDUCER 1/2 X 3/8                                 | 2    |
| 23   | 1-297-010007-12 | FITTING, AIR 3/8 X 3/8                            | 1    |

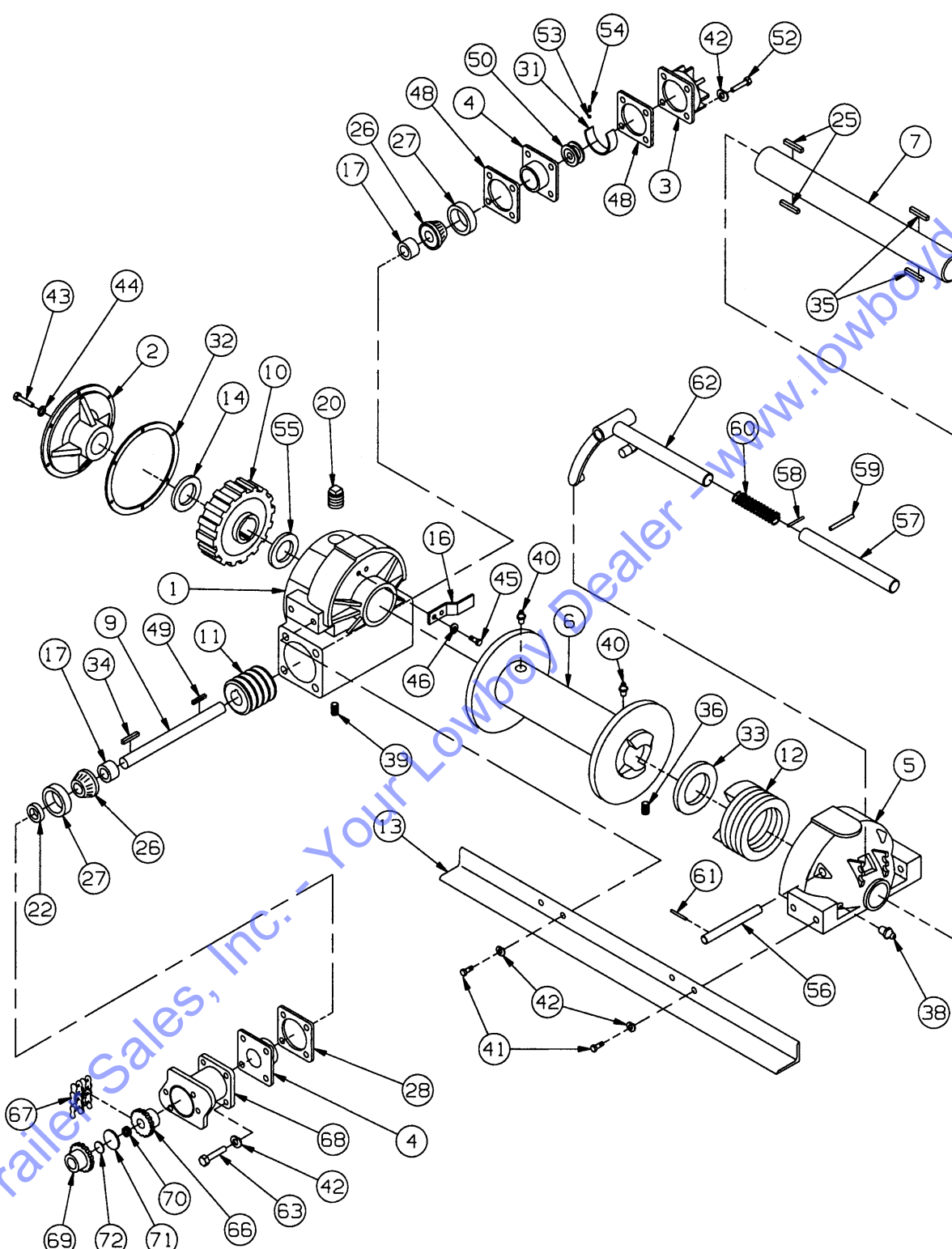


3mo873-010144

Figure 2-26: Winch Installation

## WINCH INSTALLATION

| ITEM | PART NO.        | DESCRIPTION                                      | QTY. |
|------|-----------------|--------------------------------------------------|------|
|      | 3-873-010165    | WINCH INSTALLATION, 12,000 LB (ITEMS 4-10)       |      |
|      | 128607          | WINCH INSTALLATION, 12,000 LB (ITEMS 4-10)       |      |
|      | 110910          | WINCH INSTALLATION, 20,000 LB (ITEMS 4-10)       |      |
|      | 3-793-010041    | TIE DOWN INST., WINCH D-RING OPT.(ITEMS 7-8, 11) |      |
|      | 3-873-010126-2  | WINCH ASSY, 12,000 LB PARKER (ITEMS 18-30)       |      |
|      | 3-873-010129-2  | WINCH ASSY, 20,000 LB (ITEMS 18-30)              |      |
| 4    | 3-174-010038    | CHAIN LINK CONNECTING 1/2                        | 1    |
| 5    | 3-174-010039036 | CHAIN 1/2 X 36 GR7                               | 1    |
| 6    | 7HCGHT500       | 1/2 CLEVIS GRAB HOOK                             | 1    |
| 7    | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13X1-1/2 GR5             | 8    |
| 8    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                         | 9    |
| 9    | 202702-10-8S    | ADAPTER, #10 O-RING #8 TUBE                      | 2    |
| 10   | 1-397-010302050 | HOSE ASSEMBLY, 1/2 X 50 (3-873-010165)           | 2    |
|      | 1-397-010302062 | HOSE ASSEMBLY, 1/2 X 62 (128607)                 | 2    |
|      | 1-397-010302068 | HOSE ASSEMBLY, 1/2 X 68 (110910)                 | 2    |
| 11   | 3-793-010040    | TIE DOWN, WINCH                                  | 1    |
| 12   | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5           | 6    |
| 13   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                         | 7    |
| 17   | 3-155-010017-4  | CABLE, 1/2 W/ LOOP 85 (12K)                      | 1    |
|      | 3-155-010018-6  | CABLE, 5/8 X 60 (20K)                            | 1    |
| 18   | 3-873-010122    | WINCH, WORM GEAR (12K) (SEE PAGE 2-45)           | 1    |
|      | 3-873-010123    | WINCH, WORM GEAR (20K) (SEE PAGE 2-48)           | 1    |
| 19   | 3-481-010006    | MOTOR, HYDRAULIC (12K) (SEE PAGE 2-51)           | 1    |
|      | 3-481-010007    | MOTOR, HYDRAULIC (20K) (SEE PAGE 2-51)           | 1    |
| 20   | 3-873-010124    | WINCH TENSIONER WELDMENT (12K)                   | 1    |
|      | 102186          | WINCH TENSIONER WELDMENT (20K)                   | 1    |
| 21   | 3-720-010010    | SPRING COMP LEVEL WIND                           | 1    |
| 23   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                         | 3    |
| 24   | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5           | 3    |
| 25   | 1-861-010032-10 | WASHER, FLAT 3/8                                 | 6    |
| 26   | 1-654-010055-16 | SCREW, HEX HEAD CAP 1/2-13 X 5-1/2 GR5 (12K)     | 1    |
|      | 1-654-010055-17 | SCREW, HEX HEAD CAP 1/2-13 X 6 GR5 (20K)         | 1    |
| 27   | 1-861-010032-15 | WASHER, FLAT 1/2                                 | 1    |
| 28   | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5           | 2    |
| 29   | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2                           | 2    |
| 30   | 100600          | DECAL, WARNING, WINCH (NOT SHOWN)                | 1    |



3mb410-011514

Figure 2-27: 12,000# Winch Items

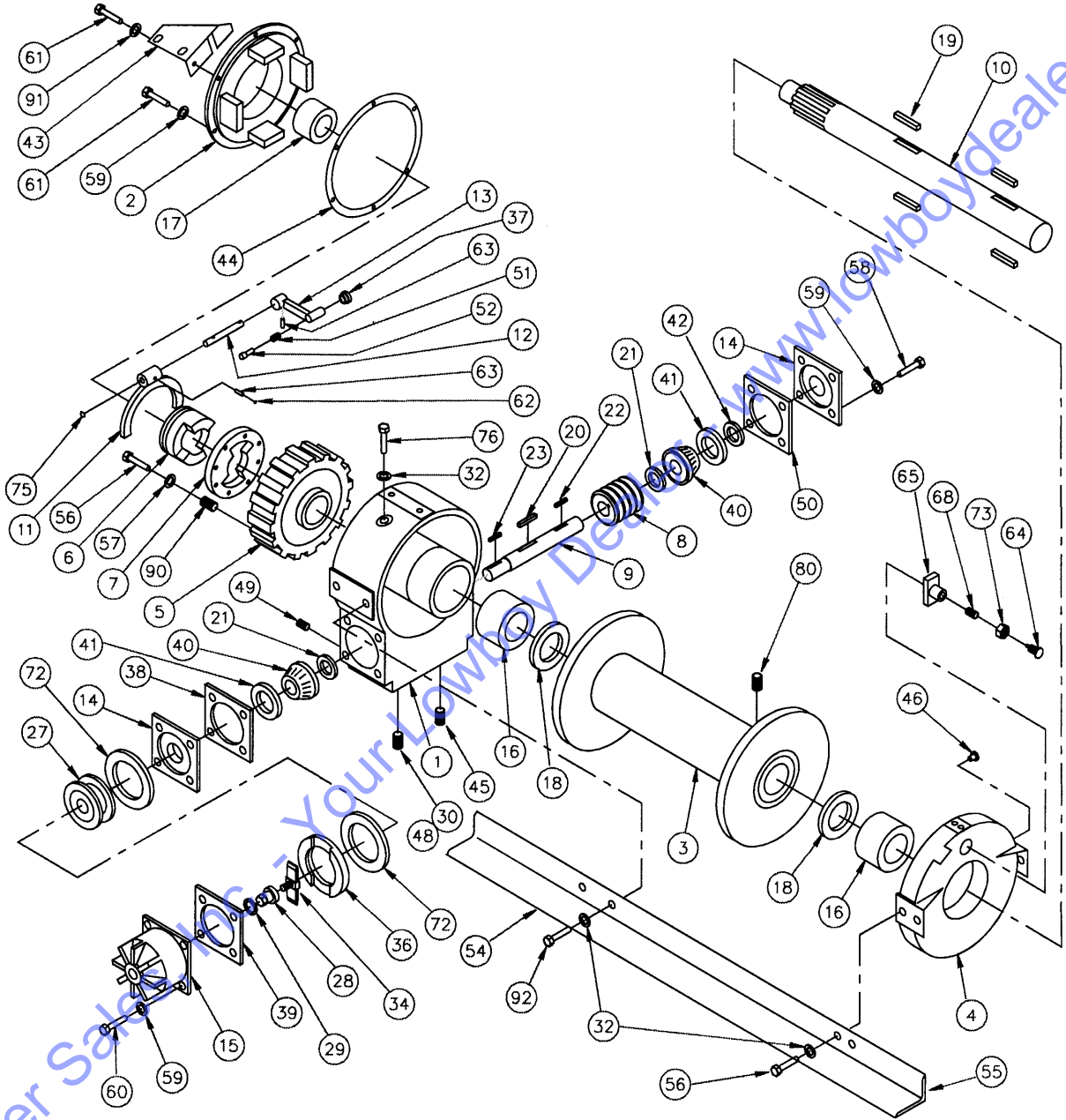
**12,000# WINCH ITEMS**

| ITEM | PART NO.     | DESCRIPTION                               | QTY. |
|------|--------------|-------------------------------------------|------|
|      | 3-873-010122 | WINCH ASSEMBLY 12K                        |      |
| 1    | 81006        | WORM HOUSING ASSEMBLY(INCLUDES ITEM 18)   | 1    |
| 2    | 81009        | COVER ASSY WORM HOUSING(INCLUDES ITEM 19) | 1    |
| 3    | 18032        | HOUSING SAFETY BRAKE                      | 1    |
| 4    | 23303        | CONTAINER BEARING                         | 2    |
| 5    | 81530        | LEG ASSEMBLY BEARING(INCLUDES ITEM 47)    | 1    |
| 6    | 11128        | DRUM CABLE                                | 1    |
| 7    | 11129        | DRUM SHAFT CABLE                          | 1    |
| 9    | 23470        | SHAFT WORM                                | 1    |
| 10   | 11144        | GEAR WORM LEFT HAND                       | 1    |
| 11   | 11142        | WORM LEFT HAND                            | 1    |
| 12   | 18039        | SLIDING CLUTCH                            | 1    |
| 13   | 22752        | ANGLE BASE                                | 2    |
| 14   | 13680        | THRUST WASHER                             | 1    |
| 16   | 81025        | BRAKE DRAG                                | 1    |
| 17   | 11308        | SPACER WORM                               | 2    |
| 18   | 18078        | BUSHING (NOT SHOWN)                       | 1    |
| 19   | 11368        | BUSHING (NOT SHOWN)                       | 1    |
| 20   | 22775        | PLUG PIPE                                 | 1    |
| 21   | 18009        | PLUG PIPE (NOT SHOWN)                     | 1    |
| 22   | 18026        | SEAL GREASE                               | 2    |
| 25   | 11117        | KEY WORM GEAR                             | 2    |
| 26   | 18015        | CONE BEARING                              | 2    |
| 27   | 18016        | CUP BEARING                               | 2    |
| 28   | 18027        | GASKET                                    | 3    |
| 31   | 21925        | BAND BRAKE                                | 1    |
| 32   | 11133        | WORM HOUSING COVER GASKET                 | 3    |
| 33   | 18019        | RETAINER RING                             | 1    |
| 34   | 18030        | KEY WORM                                  | 1    |
| 35   | 18020        | KEY CLUTCH                                | 2    |
| 36   | 24032        | SETSCREW                                  | 1    |
| 38   | 18047        | FITTING GREASE                            | 1    |
| 39   | 19045        | PLUG PIPE                                 | 1    |
| 40   | 11799        | FITTING GREASE                            | 2    |
| 41   | 21961        | CAPSCREW                                  | 12   |
| 42   | 18003        | WASHER LOCK                               | 16   |
| 43   | 11767        | CAPSCREW                                  | 6    |
| 44   | 11011        | WASHER LOCK                               | 6    |
| 45   | 13005        | CAPSCREW                                  | 2    |
| 46   | 12780        | WASHER LOCK                               | 2    |
| 47   | 18078        | BUSHING (NOT SHOWN)                       | 1    |
| 48   | 18024        | BEARING CONTAINER GASKET                  | 3    |
| 49   | 10078        | BRAKE DRUM KEY                            | 1    |
| 50   | 18028        | DRUM BRAKE                                | 1    |
| 51   | 12075        | SCREWSET                                  | 1    |
| 52   | 22703        | CAPSCREW                                  | 4    |
| 53   | 13468        | JAM NUT                                   | 4    |
| 54   | 18029        | BRAKE BAND SPRING                         | 1    |
| 55   | 11240        | RETAINER RING                             | 1    |

## 12,000# WINCH ITEMS

| ITEM | PART NO. | DESCRIPTION                 | QTY. |
|------|----------|-----------------------------|------|
| 56   | 11130    | SHIFTER SHAFT               | 1    |
| 57   | 12817    | SHIFTER HANDLE              | 1    |
| 58   | 18056    | ROLL PIN                    | 1    |
| 59   | 13028    | ROLL PIN                    | 1    |
| 60   | 18002    | SPRING                      | 1    |
| 61   | 11837    | ROLL PIN                    | 2    |
| 62   | 13829    | SHIFTER FORK                | 1    |
| 63   | 22704    | CAPSCREW                    | 4    |
| 65   | 18044    | KEY                         | 1    |
| 66   | 23081    | COUPLING HALF (WORM SHAFT)  | 1    |
| 67   | 13424    | ROLLER CHAIN                | 1    |
| 68   | 23079    | MOTOR ADAPTER               | 1    |
| 69   | 23083    | COUPLING HALF (MOTOR SHAFT) | 1    |
| 70   | 23353    | SPRING                      | 1    |
| 71   | 23078    | SPACER                      | 1    |
| 72   | 23085    | SPACER                      | 1    |





3m873-010123

Figure 2-28: 20,000# Winch Items

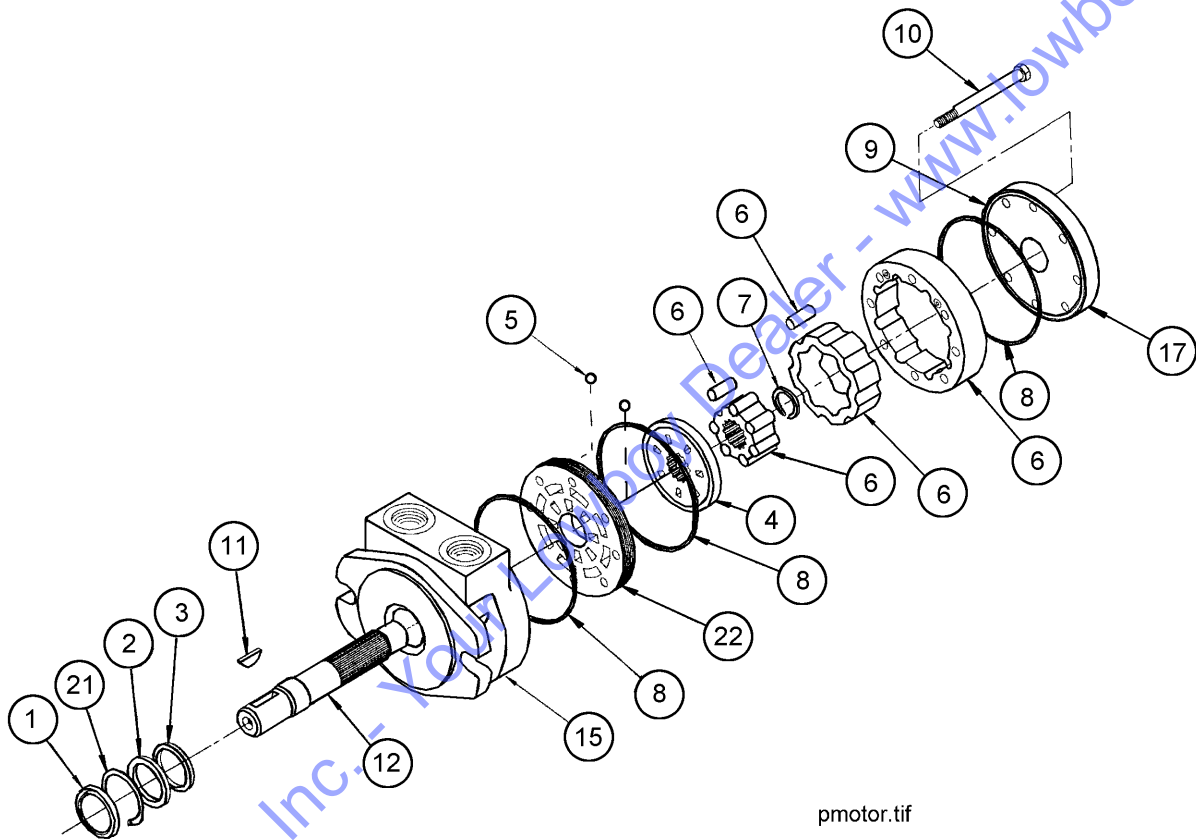
## ILLUSTRATED PARTS LIST

### 20,000# WINCH ITEMS

| ITEM | PART NO.     | DESCRIPTION                    | QTY. |
|------|--------------|--------------------------------|------|
|      | 3-873-010123 | WINCH 20,000# W/BOLT-ON ANGLES |      |
| 1    | 81078        | WORM HOUSING ASSEMBLY          | 1    |
| 2    | 81082        | COVER ASSEMBLY WORM HOUSING    | 1    |
| 3    | 11449        | DRUM CABLE                     | 1    |
| 4    | 81077        | LEG ASSEMBLY BEARING           | 1    |
| 5    | 11434        | WORM GEAR RIGHT                | 1    |
| 6    | 11421        | CLUTCH SLIDING                 | 1    |
| 7    | 11419        | DRIVE CLUTCH                   | 1    |
| 8    | 11404        | WORM RIGHT                     | 1    |
| 9    | 11405        | SHAFT WORM                     | 1    |
| 10   | 11414        | SHAFT CABLE DRUM               | 1    |
| 11   | 11440        | FORK SHIFTER                   | 1    |
| 12   | 11441        | SHAFT SHIFTER                  | 1    |
| 13   | 11442        | HANDLE SHIFTER                 | 1    |
| 14   | 11427        | CONTAINER BEARING              | 2    |
| 15   | 11445        | COVER WORM BRAKE               | 1    |
| 16   | 18035        | BUSHING                        | 2    |
| 17   | 11425        | BUSHING                        | 1    |
| 18   | 11420        | RING RETAINING                 | 2    |
| 19   | 22055        | DRUM KEY CABLE                 | 4    |
| 20   | 11402        | KEY WORM                       | 1    |
| 21   | 11407        | SPACER WORM                    | 2    |
| 22   | 23367        | KEY SPROCKET                   | 1    |
| 23   | 10078        | KEY ROTOR                      | 1    |
| 27   | 81080        | ROTOR ASSEMBLY BRAKE           | 1    |
| 28   | 11599        | ADJUSTING NUT WORM BRAKE       | 1    |
| 29   | 12465        | O-RING                         | 1    |
| 30   | 19014        | PLUG FILLER                    | 1    |
| 32   | 11026        | WASHER LOCK                    | 10   |
| 34   | 81081        | SPRING ASSEMBLY SAFETY BRAKE   | 1    |
| 36   | 11431        | PLATE PRESSURE                 | 1    |
| 37   | 18022        | KNOB SHIFTER                   | 1    |
| 38   | 11429        | GASKET                         | 4    |
| 39   | 11446        | GASKET                         | 2    |
| 40   | 18033        | BEARING CONE                   | 2    |
| 41   | 18034        | BEARING CUP                    | 2    |
| 42   | 12073        | SEAL GREASE                    | 1    |
| 43   | 12783        | BRACKET SHIFTER                | 1    |
| 44   | 11411        | COVER GASKET HOUSING           | 1    |
| 45   | 19045        | PLUG DRAIN                     | 1    |
| 46   | 18047        | FITTING GREASE                 | 1    |
| 48   | 22775        | PLUG VENT                      | 1    |
| 49   | 18009        | PLUG LEVEL                     | 1    |
| 50   | 11430        | GASKET                         | 4    |
| 51   | 11310        | SPRING SHIFTER KNOB            | 1    |
| 52   | 11309        | STEM SHIFTER KNOB              | 1    |
| 54   | 28942        | ANGLE FRONT BASE               | 1    |
| 55   | 28943        | ANGLE REAR BASE                | 1    |
| 56   | 13938        | CAPSCREW                       | 16   |

**20,000# WINCH ITEMS**

| ITEM | PART NO. | DESCRIPTION                     | QTY. |
|------|----------|---------------------------------|------|
| 57   | 12781    | WASHER LOCK                     | 8    |
| 58   | 21044    | CAPSCREW                        | 4    |
| 59   | 11025    | WASHER LOCK                     | 4    |
| 60   | 22695    | CAPSCREW                        | 4    |
| 61   | 21964    | CAPSCREW                        | 6    |
| 62   | 12146    | PLUG EXPANSION                  | A/R  |
| 63   | 13028    | ROLLPIN                         | A/R  |
| 64   | 11398    | SCREW ADJUSTING                 | 1    |
| 65   | 88005    | SHOE ASSEMBLY DRAG BRAKE        | 1    |
| 68   | 18002    | DRAG BRAKE SPRING               | 1    |
| 72   | 11426    | DISC FRICTION                   | 2    |
| 73   | 11791    | NUT JAM                         | 1    |
| 75   | 12767    | PLUG EXPANSION                  | A/R  |
| 76   | 22729    | CAPSCREW                        | 2    |
| 77   | 23245    | SAE PLATE -AMU7-16F (NOT SHOWN) | 1    |
| 78   | 23310    | PLATE WARNING (NOT SHOWN)       | 1    |
| 79   | 11842    | SCREW DRIVE (NOT SHOWN)         | 4    |
| 80   | 12228    | SCREW SET                       | 1    |
| 90   | 11435    | INSERT THREAD                   | 8    |
| 91   | 11014    | LOCKWASHER                      | 1    |
| 92   | 22697    | CAPSCREW                        | 5    |



pmotor.tif

Figure 2-29: Winch Motor Assembly

## WINCH MOTOR ASSEMBLY

| ITEM | PART NO.     | DESCRIPTION                   | QTY. |
|------|--------------|-------------------------------|------|
|      | 3-481-010007 | MOTOR, HYDRAULIC (20K WINCH)  | 1    |
|      | 3-481-010006 | MOTOR, HYDRAULIC (12K WINCH)  | 1    |
| 1    | 2183         | SEAL DUST                     | 1    |
| 2    | 2177         | BACK-UP RING                  | 1    |
| 3    | 2175         | SEAL LIP                      | 1    |
| 4    | 1644         | ROTARY VALVE                  | 1    |
| 5    | 1021         | CHECK VALVE BALL              | 2    |
| 6    | 1004-6       | IGR ASSY (20K WINCH)          | 1    |
|      | 1004-3       | IGR ASSY (12K WINCH)          | 1    |
| 7    | 1296         | SNAP RING                     | 1    |
| 8    | 1046         | SQUARE RING SEAL              | 3    |
| 9    | 1019-4       | PLUG, VENT W/O-RING           | 1    |
| 10   | 1014-4       | BOLT, HEX (20K WINCH)         | 8    |
|      | 1114-5       | BOLT, HEX (12K WINCH)         | 8    |
| 11   | 1655         | KEY, WOODRUFF                 | 1    |
| 12   | 2265-6       | SHAFT (20K WINCH)             | 1    |
|      | 2109-3       | SHAFT (12K WINCH)             | 1    |
| 15   | M110AB-4     | BODY/BEARING ASSY (20K WINCH) | 1    |
|      | PA-2328-2    | BODY/BEARING ASSY (12K WINCH) | 1    |
| 17   | M110C-1      | COVER/BEARING ASSY            | 1    |
| 21   | 2180         | SNAP RING SHAFT               | 1    |
| 22   | 1865         | COMMUTATOR PLATE              | 1    |
|      | 2263         | SEAL KIT BODY                 | 1    |
|      | 2480         | SEAL KIT BODY VITON           | 1    |

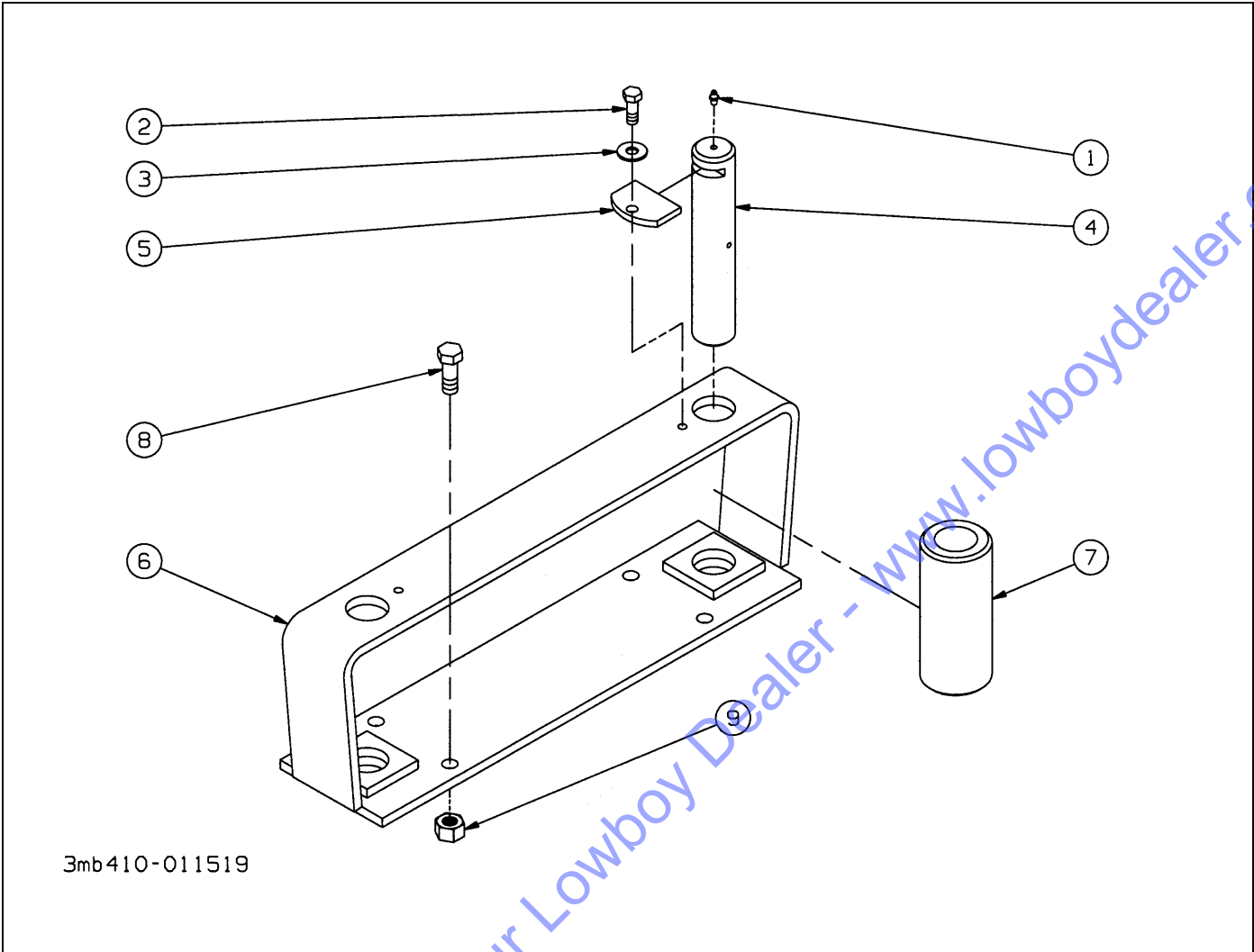


Figure 2-30: Winch Cable Roller Guide (Option)

WINCH CABLE ROLLER GUIDE (OPTION)

| ITEM | PART NO.        | DESCRIPTION                          | QTY. |
|------|-----------------|--------------------------------------|------|
|      | 3-352-010017-1  | GUIDE INSTALLATION, WINCH CABLE 12K  |      |
|      | 3-352-010017-2  | GUIDE INSTALLATION, WINCH CABLE 20K  |      |
| 1    | 1-298-010001-1  | FITTING, GRS 1/4-28 STR SHORT        | 2    |
| 2    | 1-654-010051-03 | SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5 | 2    |
| 3    | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8               | 2    |
| 4    | 3-557-010383    | PIN, CABLE GUIDE ROLLER              | 2    |
| 5    | 3-565-010770    | PLATE, CABLE GUIDE LOCK              | 2    |
| 6    | 3-120-010295    | BRACKET WLDMT, 12K ROLLER            | 1    |
|      | 3-120-010294    | BRACKET WLDMT, 20K ROLLER            | 1    |
| 7    | 3-645-010049    | ROLLER, WINCH CABLE GUIDE            | 2    |
| 8    | 1-654-010055-05 | SCREW, HEX HEAD CAP 1/2-13 X 2 GR5   | 4    |
| 9    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB             | 4    |

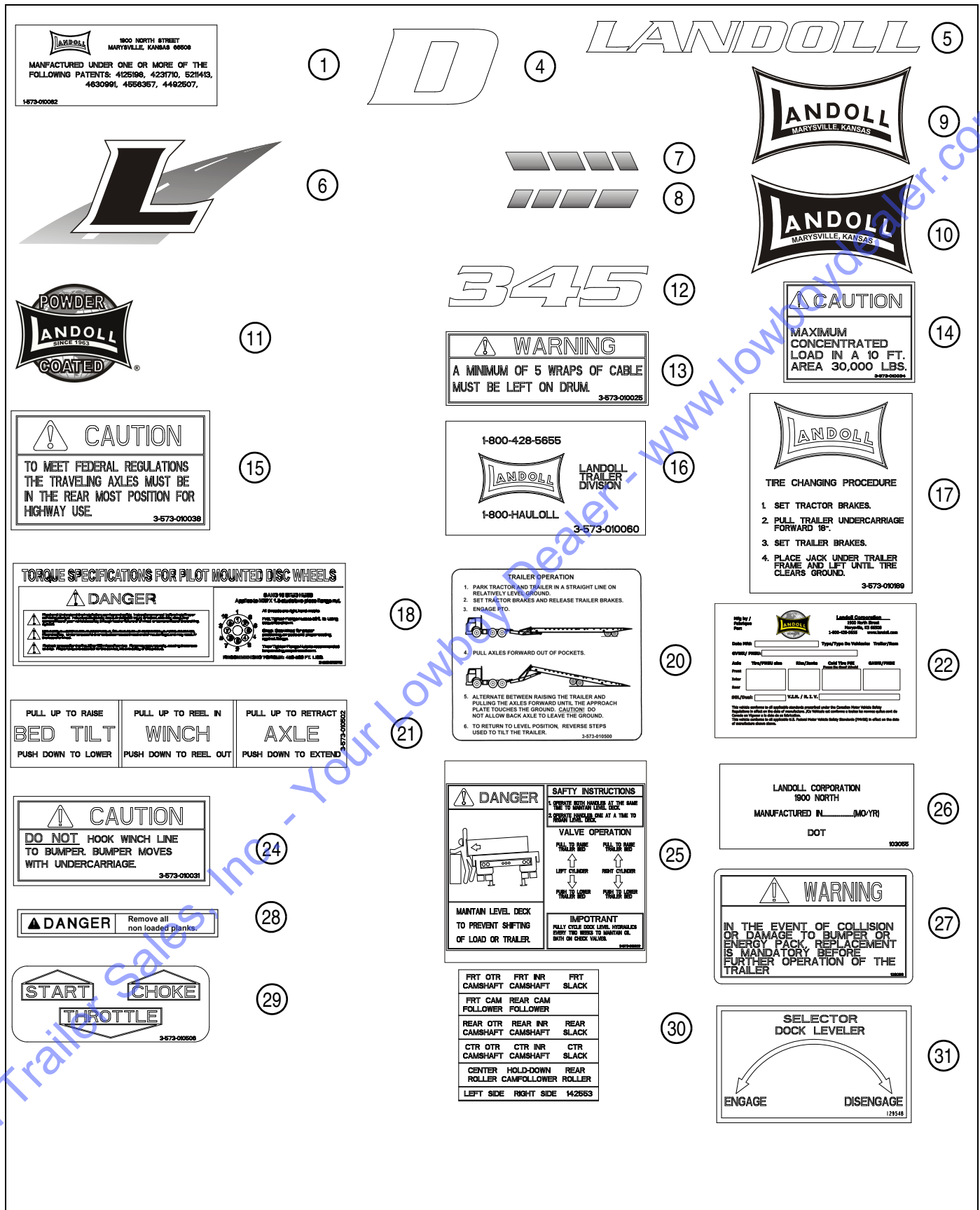
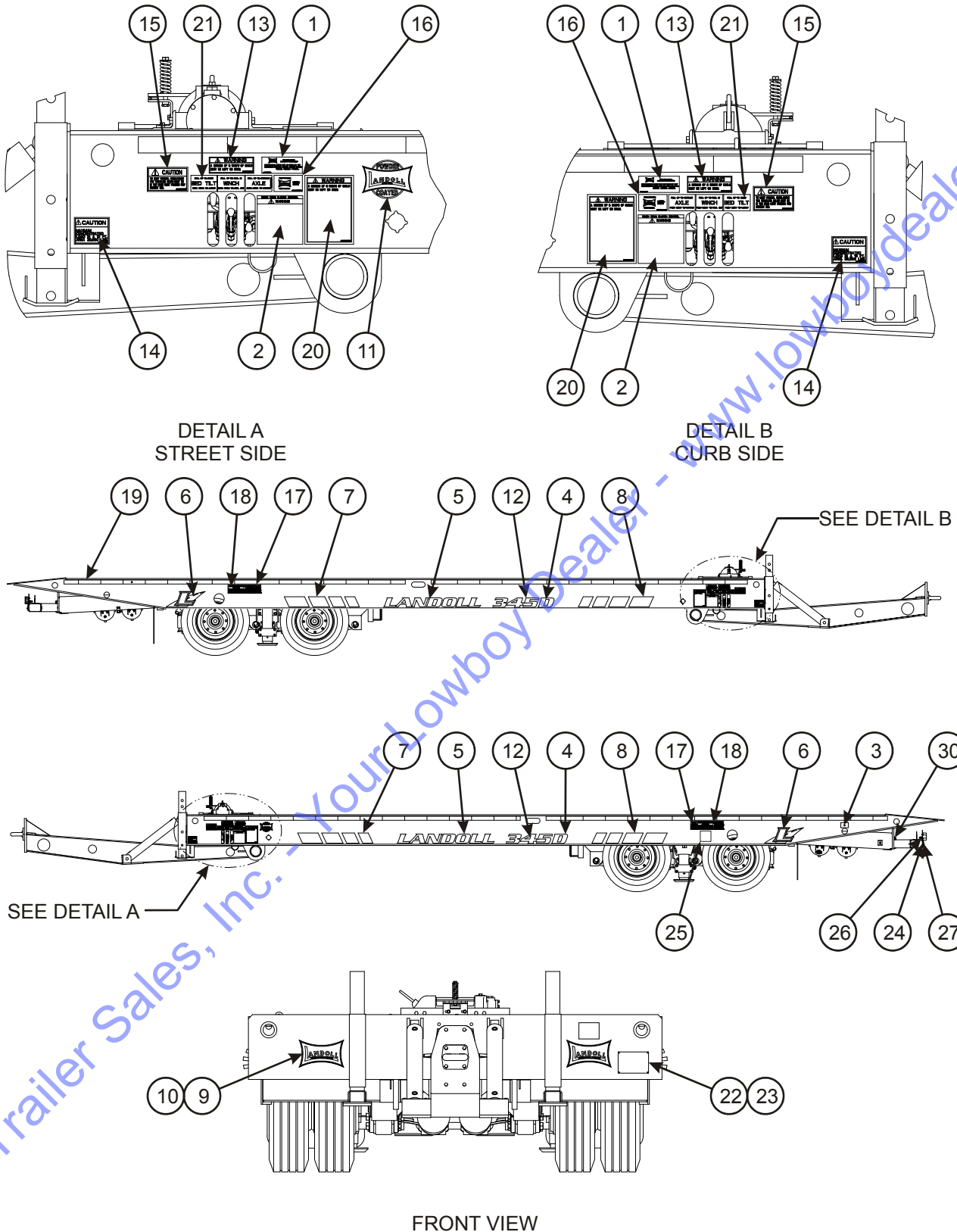


Figure 2-31: Decals

# ILLUSTRATED PARTS LIST



m155205

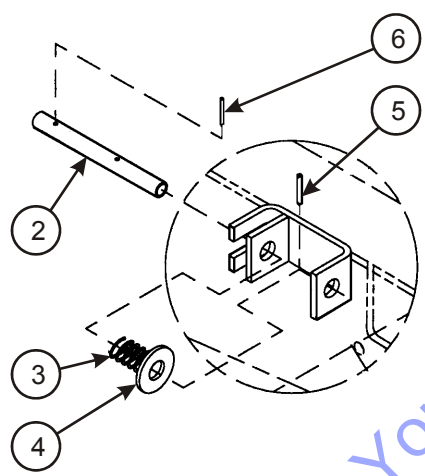
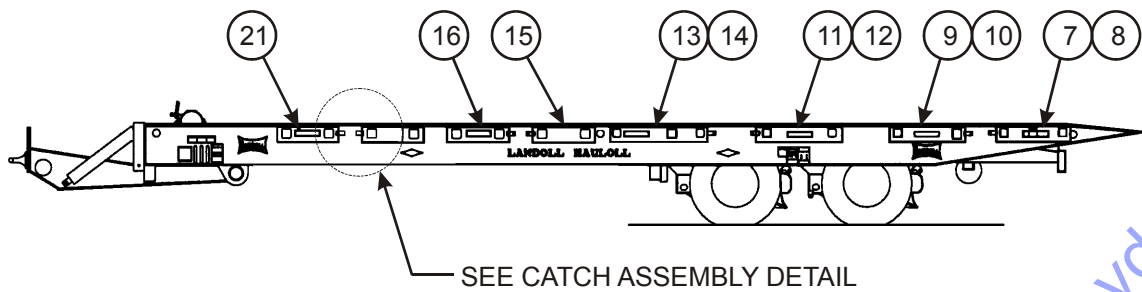
Figure 2-32: Decal Installation



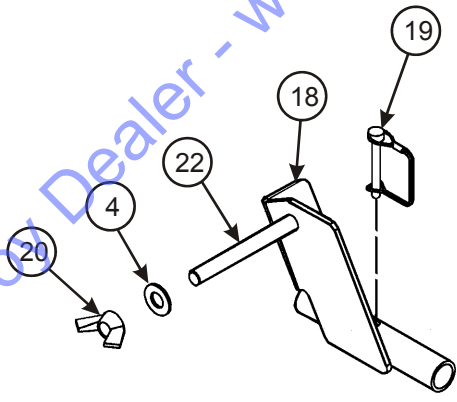
## DECAL INSTALLATION

| ITEM | PART NO.     | DESCRIPTION                                         | QTY.  |
|------|--------------|-----------------------------------------------------|-------|
|      | 155203       | DECAL INSTALLATION 345 BLK/LT REFLECTIVE            |       |
|      | 155204       | DECAL INSTALLATION 345 WHT/DK REFLECTIVE            |       |
|      | 155271       | DECALS WHITE, 345 DUAL CONTROL REFLECTIVE           |       |
|      | 155279       | DECALS BLACK, 345 DUAL CONTROL REFLECTIVE           |       |
| 1    | 1-573-010082 | DECAL, PATENT TRAILERS                              | 2     |
| 2    | 100600       | DECAL, WARNING WINCH                                | REF   |
| 3    | 101855       | WARNING LAMP LABEL, ABS                             | 1     |
| 4    | 153746       | DECAL, D 5" REFLECTIVE                              | 2     |
| 5    | 153750       | DECAL, LANDOLL 5" REFLECTIVE                        | 2     |
| 6    | 153751       | DECAL, HWY L 7" REFLECTIVE                          | 2     |
| 7    | 153752       | DECAL, CHEVRON LEFT REFLECTIVE                      | 2     |
| 8    | 153753       | DECAL, CHEVRON RIGHT REFLECTIVE                     | 2     |
| 9    | 153754       | DECAL, BOW-TIE 6" WHITE REFLECTIVE                  | 2     |
| 10   | 153755       | DECAL, BOW-TIE 6" BLACK REFLECTIVE                  | 2     |
| 11   | 153798       | DECAL, POWDER COATED REFLECTIVE                     | 1     |
| 12   | 155197       | DECAL, 345 REFLECTIVE                               | 2     |
| 13   | 3-573-010025 | DECAL, WINCH WARNING                                | *1, 2 |
| 14   | 3-573-010034 | DECAL, CONCENTRATED LOAD 30,000 LBS                 | 2     |
| 15   | 3-573-010038 | DECAL, CAUTION                                      | *1, 2 |
| 16   | 3-573-010060 | DECAL, TOLL FREE NUMBER                             | *1, 2 |
| 17   | 3-573-010189 | DECAL, TIRE CHANGING PROCEDURE                      | 2     |
| 18   | 3-573-010210 | DECAL, TORQUE SPEC 8-10 STUD HUB                    | REF   |
| 19   | 3-573-010377 | DECAL, 2" REFLEXITE TAPE                            | AR    |
| 20   | 3-573-010500 | DECAL, OPERATION 2-AXLE                             | *1, 2 |
| 21   | 3-573-010502 | DECAL, INSTRUCTION CONTROL                          | *1, 2 |
| 22   | 155780       | INFORMATION FOR TRAILER VIN                         | 1     |
| 23   | 156010       | RIVET, BLIND .156 X 1/2 GRIP                        | 4     |
| 24   | 3-573-010031 | DECAL, BUMPER                                       | 1     |
| 25   | 3-573-010202 | DECAL, DANGER/OPER DK LEVEL                         | 1     |
| 26   | 103055       | DECAL, ENERGY BUMPER CERTIFICATION                  | 1     |
| 27   | 103056       | DECAL, ENERGY BUMPER WARNING                        | 1     |
| 28   | 101268       | DECAL, DANGER PLANK (SEE PAGE 2-57 FOR LOCATION)    | REF   |
| 29   | 3-573-010506 | DECAL, ENGINE CONTROLS (SEE PAGE 2-62 FOR LOCATION) | REF   |
| 30   | 142553       | DECAL, GREASE TRAILER U/C                           | 1     |
| 31   | 129548       | DECAL, SELECTOR DK LEVEL                            | 1     |

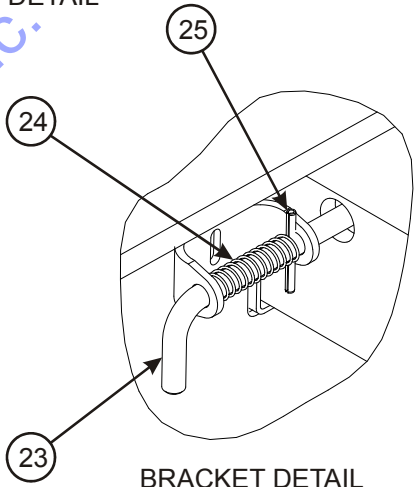
\* 1ST QUANTITY USED W/ P/N'S 155203 AND 155204; 2ND QUANTITY USED W/ P/N'S 155271 AND 155279



CATCH ASSEMBLY DETAIL



FLAG HOLDER ASSEMBLY



BRACKET DETAIL

3mb276-010756

Figure 2-33: Extension Installation

**EXTENSION INSTALLATION (OPTION)**

| ITEM | PART NO.                 | DESCRIPTION                                                         | QTY. |
|------|--------------------------|---------------------------------------------------------------------|------|
|      | 3-276-010756-1<br>148194 | EXTENSION INSTALLATION 345 PULLOUTS<br>EXTENSION INSTALLATION, REAR |      |
| 2    | 3-557-010375             | PIN, SLIDE LOCK                                                     | 16   |
| 3    | CO-975-74-2000           | SPRING, COMPRESSION (3-276-010756-1)                                | 16   |
| 4    | 1-861-010032-15          | WASHER, FLAT 1/2                                                    | 22   |
| 5    | 1-647-010004117          | ROLL PIN 1/8 X 1                                                    | 16   |
| 6    | 0600-250-03000           | ROLL PIN 1/4 X 3                                                    | 16   |
| 7    | 3-276-010749             | EXTENSION, LEFT HAND PULL-OUT 28/ 3 TUBE                            | 1    |
| 8    | 3-276-010748             | EXTENSION, RIGHT HAND PULL-OUT 28/ 3 TUBE                           | 1    |
| 9    | 3-276-010751             | EXTENSION, LEFT HAND PULL-OUT 28                                    | 1    |
| 10   | 3-276-010750             | EXTENSION, RIGHT HAND PULL-OUT 28                                   | 1    |
| 11   | 3-276-010716             | EXTENSION, LEFT HAND PULL-OUT 32                                    | 1    |
| 12   | 3-276-010754             | EXTENSION, RIGHT HAND PULL-OUT 32                                   | 1    |
| 13   | 3-276-010753             | EXTENSION, LEFT HAND PULL-OUT 36/ 3 TUBE                            | 1    |
| 14   | 3-276-010752             | EXTENSION, RIGHT HAND PULL-OUT 36/3 TUBE                            | 1    |
| 15   | 3-276-010715             | EXTENSION, LEFT HAND PULL-OUT 23                                    | 4    |
| 16   | 3-276-010755             | EXTENSION, RIGHT HAND PULL-OUT 23                                   | 4    |
| 17   | 3-573-010377             | DECAL, 2" REFLEXITE TAPE (NOT SHOWN)                                | AR   |
| 18   | 101062                   | BRACKET, FLAG HOLDER                                                | 6    |
| 19   | 516-22PTL                | RETAINING PIN, MUD FLAP                                             | 6    |
| 20   | 1-533-010001             | NUT, WING 1/2                                                       | 6    |
| 21   | 101268                   | DECAL, DANGER PLANK                                                 | 12   |
| 22   | 1-654-010055-14          | SCREW, HEX HEAD CAP 1/2-13 X 4-1/2 GR5                              | 6    |
| 23   | 104252                   | PIN, P/O EXT LOCK (148194)                                          | 8    |
| 24   | 104253                   | SPRING, COMPRESSION P/O EXT LOCK (148194)                           | 8    |
| 25   | 1-647-010004177          | PIN, SPRING SLOTTED 3/16 X 1-1/2 (148194)                           | 8    |

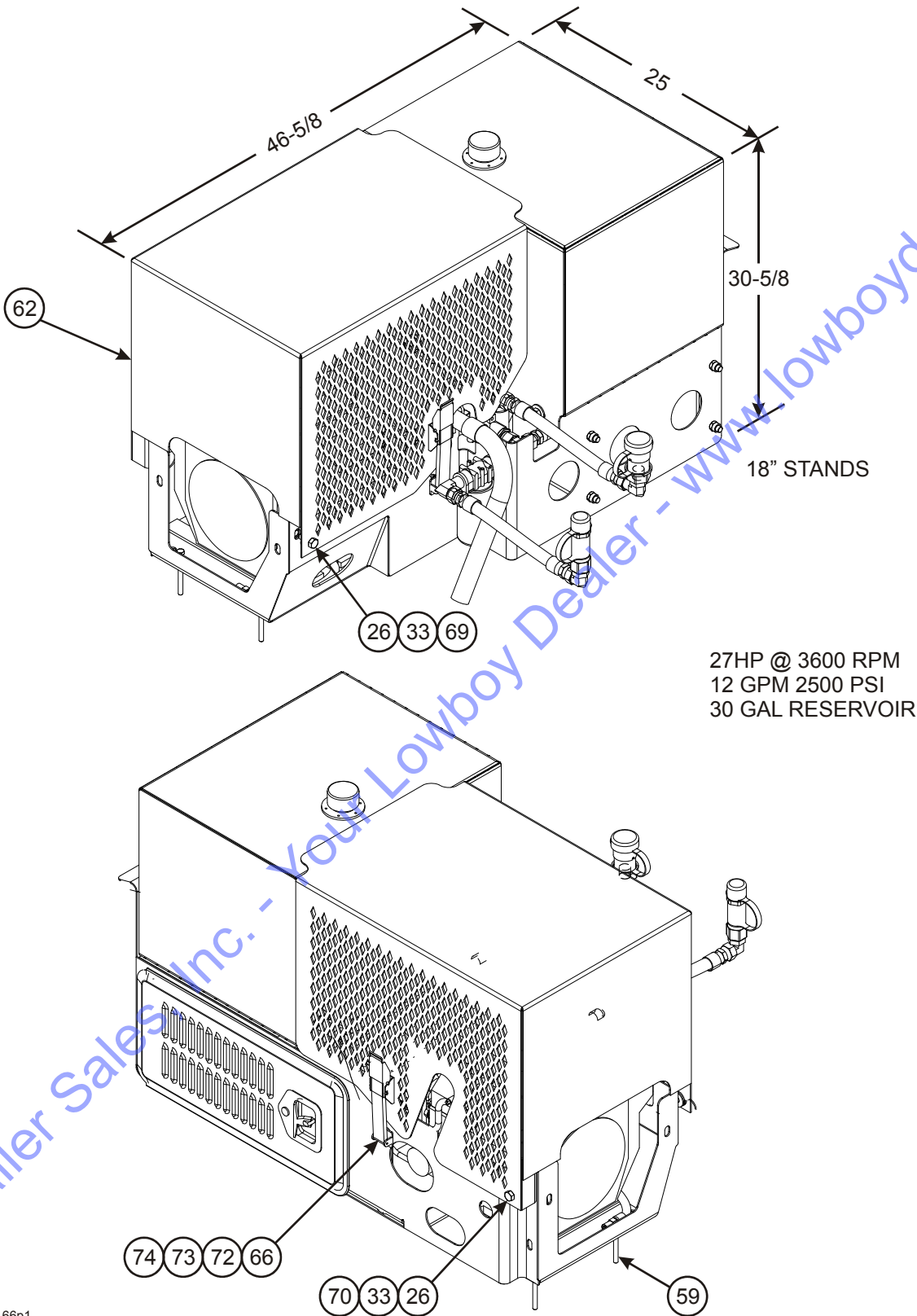
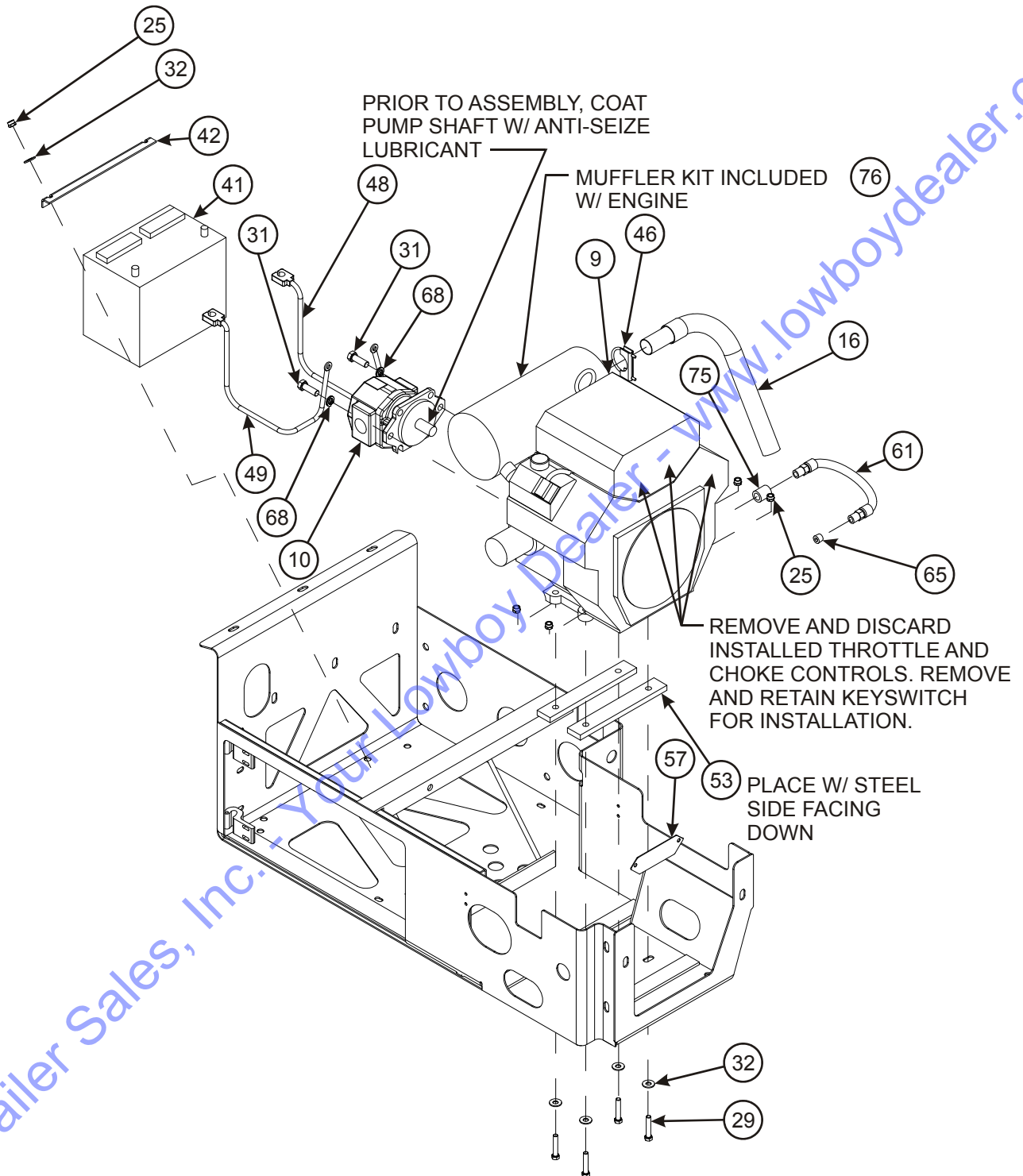


Figure 2-34: Engine Drive, 20 HP (1 of 4)



m123166p2

Figure 2-35: Engine Drive, 20 HP (2 of 4)

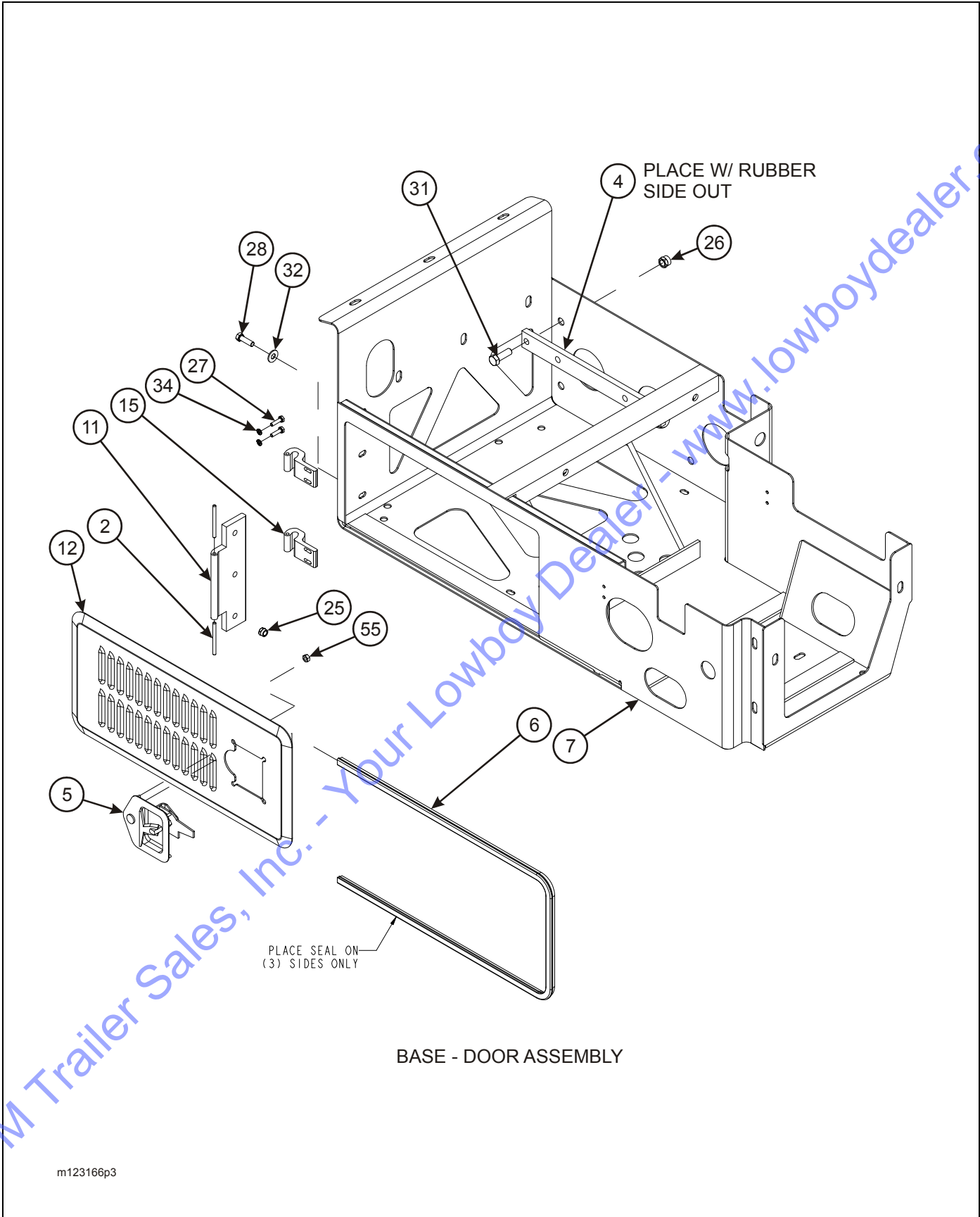


Figure 2-36: Engine Drive, 20 HP (3 of 4)

m123166p4

## ENGINE DRIVE, 27HP

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 123166          | ENGINE DRIVE, 27HP                     |      |
| 1    | 104699          | TANK, FUEL PLASTIC                     | 1    |
| 2    | 108601          | PIN, DOOR HINGE                        | 2    |
| 3    | 113388          | DECAL, ENG PKG INSTRUCTIONS            | 1    |
| 4    | 113856          | MOUNT, ENGINE ISOLATOR, KOHLER CH25    | 2    |
| 5    | 114814          | LATCH, FOLDING T LOCKABLE              | 1    |
| 6    | 114815          | SEAL, SPONGE RUBBER TRIM               | 5    |
| 7    | 120654          | MOUNT WELDMENT, ENG PKG 25 HP          | 1    |
| 8    | 129264          | HYD TANK WELDMENT                      | 1    |
| 9    | 127813          | ENGINE KOHLER 27 HP PUMP MOUNT         | 1    |
|      | 3-765-010050    | KOHLER IGNITION SWITCH                 | 1    |
| 10   | 115888          | PUMP, HYDRAULIC                        | 1    |
| 11   | 116326          | HINGE, BASE MOUNT                      | 1    |
| 12   | 116328          | MOUNT, DOOR WELDMENT                   | 1    |
| 13   | 116330          | FITTING, 90                            | 1    |
| 14   | 117873          | FITTING, 45                            | 1    |
| 15   | 119206          | HINGE, DOOR                            | 2    |
| 16   | 119445          | EXHAUST EXT WELDMENT                   | 1    |
| 17   | 119577          | HOSE                                   | 1    |
| 18   | 120661          | VALVE, HYDR PRESSURE RELIEF            | 1    |
| 19   | 900598-12S      | PLUG, O-RING                           | 1    |
| 20   | 105-0105        | CLAMP, HOSE                            | 2    |
| 21   | 1-295-010001    | RETURN LINE FILTER                     | 1    |
|      | 1-295-010002    | FILTER ELEMENT                         | 1    |
| 22   | 1-297-010034-01 | FITTING, BR 90 BARB                    | 1    |
| 23   | 1-316-010013    | HOSE, 1/4 LOW PRESSURE FUEL LINE       | 4    |
| 24   | 105479          | COUPLER FLAT FACE MALE NOSE            | 1    |
| 25   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB               | 13   |
| 26   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB               | 11   |
| 27   | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5     | 6    |
| 28   | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5 | 3    |
| 29   | 1-654-010051-09 | SCREW, HEX HEAD CAP 3/8-16 X 2 GR5     | 6    |
| 30   | 105480          | COUPLER, FLAT FACE FEMALE BODY         | 1    |
| 31   | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5 | 11   |
| 32   | 1-861-010032-11 | WASHER, FLAT 3/8W                      | 17   |
| 33   | 1-861-010032-15 | WASHER, FLAT 1/2W                      | 13   |
| 34   | 1-861-010034-09 | WASHER, SPLIT LOCK 1/4                 | 4    |
| 35   | 2024-12-12S     | ELBOW, 90                              | 1    |
| 36   | 105481          | COUPLER, DUST CAP MALE                 | 1    |
| 37   | 202702-20-20S   | ADAPTER                                | 1    |
| 38   | 2062-12-12S     | ADAPTER, 90                            | 4    |
| 39   | 203102-12-12S   | ADAPTER, TEE                           | 1    |
| 40   | 206209-12-12S   | ADAPTER, 90                            | 1    |
| 41   | 2481X           | BATTERY 12V                            | 1    |
| 42   | 3-120-010124    | BATTERY CLAMP BRACKET                  | 1    |
| 43   | 128774          | CABLE, THROTTLE                        | 2    |
| 44   | 3-573-010506    | DECAL, ENGINE CONTROL                  | 1    |
| 45   | 3-162-010001    | FILLER-BREATHING-STRAINER ASSEMBLY     | 1    |
| 46   | 3-182-010028    | CLAMP, MUFFLER                         | 1    |



**ENGINE DRIVE, 27HP**

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
| 47   | 3-399-010001006 | HOSE, 1-1/4 SUCTION                    | 1    |
| 48   | 514-9045-26     | CABLE ASSEMBLY, BATTERY POSITIVE       | 1    |
| 49   | 514-9073-18     | CABLE ASSEMBLY, BATTERY NEGATIVE       | 1    |
| 50   | 2240-12-12S     | ADAPTER, BULKHEAD                      | 1    |
| 51   | 105482          | COUPLER, DUST FEMALE                   | 1    |
| 52   | 1-181-010046-7  | CLAMP, HOSE                            | 2    |
| 53   | 120659          | ISOLATOR, KOHLER 25 HP MOUNT           | 2    |
| 54   | 120660          | ADAPTER                                | 1    |
| 55   | 115877          | NUT, HEAVY HEX 1/4-20 GR5              | 4    |
| 57   | 123014          | PLATE, MOTOR FRONT 25 HP               | 1    |
| 58   | 113544          | HARNESS, ENG PKG IGNITION (NOT SHOWN)  | 2    |
| 59   | 108295          | SCREW, HEX HEAD CAP 3/8-16 X 4 GR5     | 2    |
| 61   | 1-397-010312032 | HOSE ASSEMBLY 3/8 X 32                 | 1    |
| 62   | 129287          | COVER WELDMENT                         | 1    |
| 63   | 1-397-010304018 | HOSE ASSEMBLY 3/4 X 18                 | 1    |
| 64   | 1-397-010304060 | HOSE ASSEMBLY 3/8 X 60                 | 2    |
| 65   | 1-560-010002-03 | PLUG, PIPE 3/8                         | 1    |
| 66   | 1-512-010004-03 | NUT, HEX LOCK 10-24 GRA                | 8    |
| 67   | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB               | 2    |
| 68   | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2                 | 2    |
| 69   | 1-654-010055-02 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5 | 1    |
| 70   | 1-654-010055-09 | SCREW, HEX HEAD CAP 1/2-13 X 3 GR5     | 1    |
| 71   | 1-861-010032-07 | WASHER, FLAT 1/4W                      | 2    |
| 72   | 110-0116        | SCREW, RD HEAD CAP 10-24 X 3/4         | 8    |
| 73   | 110-0253        | WASHER, FLAT 3/16                      | 8    |
| 74   | 3-443-010018    | LATCH, FLEXIBLE DRAW, LEVER ASSIST     | 2    |
| 75   | 3/8P COUPL      | PIPE COUPLING 3/8 BLACK                | 1    |
| 76   | 128501          | REPLACEMENT MUFFLER KIT                | 1    |
| 77   | 142270          | FUEL FILTER                            | 1    |

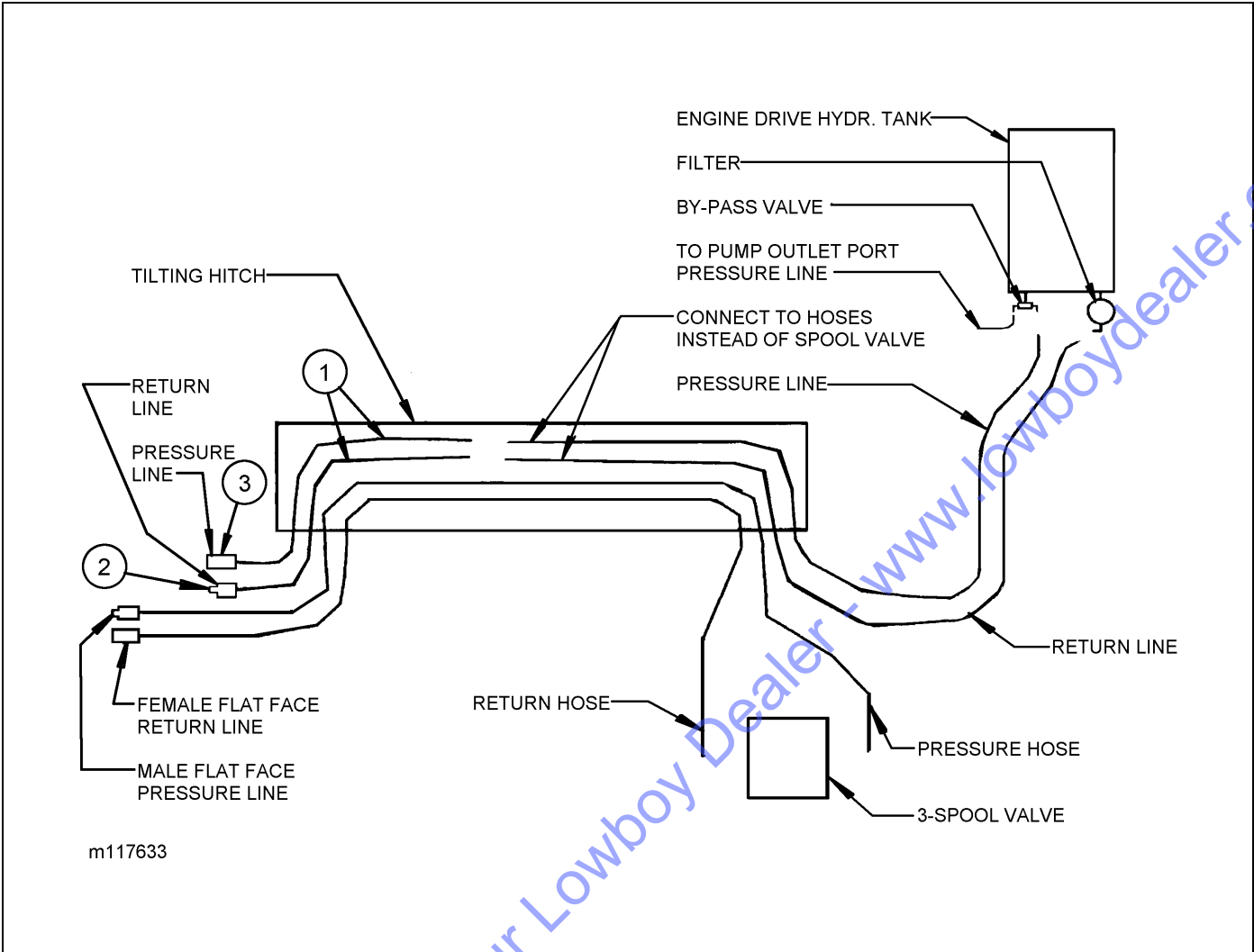


Figure 2-38: Dual Hydraulic Plumbing (Option)

DUAL HYDRAULIC PLUMBING (OPTION)

| ITEM | PART NO. | DESCRIPTION                    | QTY. |
|------|----------|--------------------------------|------|
|      | 117633   | DUAL HYDRAULIC PLUMBING        |      |
| 1    | 117632   | HOSE, 1/2 X 50                 | 2    |
| 2    | 105479   | COUPLER, FLAT FACE MALE NOSE   | 1    |
| 3    | 105480   | COUPLER, FLAT FACE FEMALE BODY | 1    |

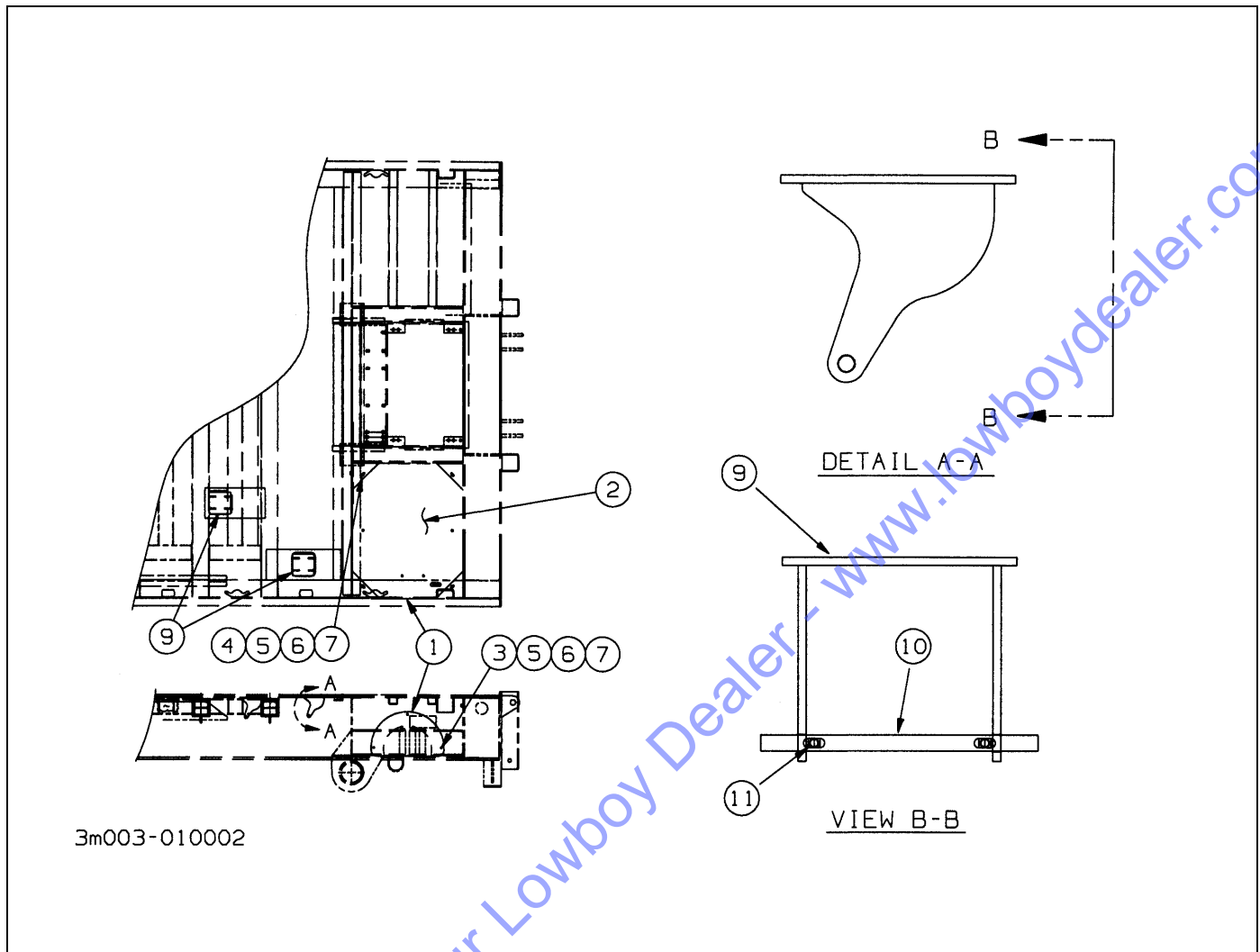


Figure 2-39: Accessories w/o Engine Drive

## ACCESSORIES W/O ENGINE DRIVE

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 3-003-010002    | ACCESSORY W/O ENGINE DRIVE 102         |      |
|      | 102374          | ACCESSORY W/O ENGINE DRIVE 96          |      |
| 1    | 3-222-010224    | COVER, ENGINE AIR INTAKE               | 1    |
| 2    | 3-115-010185    | TOOLBOX, BOTTOM 102                    | 1    |
|      | 102373          | TOOLBOX, BOTTOM 96                     | 1    |
| 3    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5     | 3    |
| 4    | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5 | 4    |
| 5    | 1-861-010032-11 | WASHER, FLAT 3/8                       | 14   |
| 6    | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8                 | 7    |
| 7    | 1-512-010007-07 | NUT, HEX 3/8-16                        | 7    |
| 9    | 103716          | COVER WELDMENT, ENGINE DRIVE           | 1    |
| 10   | 103717          | PIN, COVER ACCESS ENGINE               | 2    |
| 11   | 1-557-010362-40 | PIN, COTTER 5/32 X 1-1/4               | 4    |

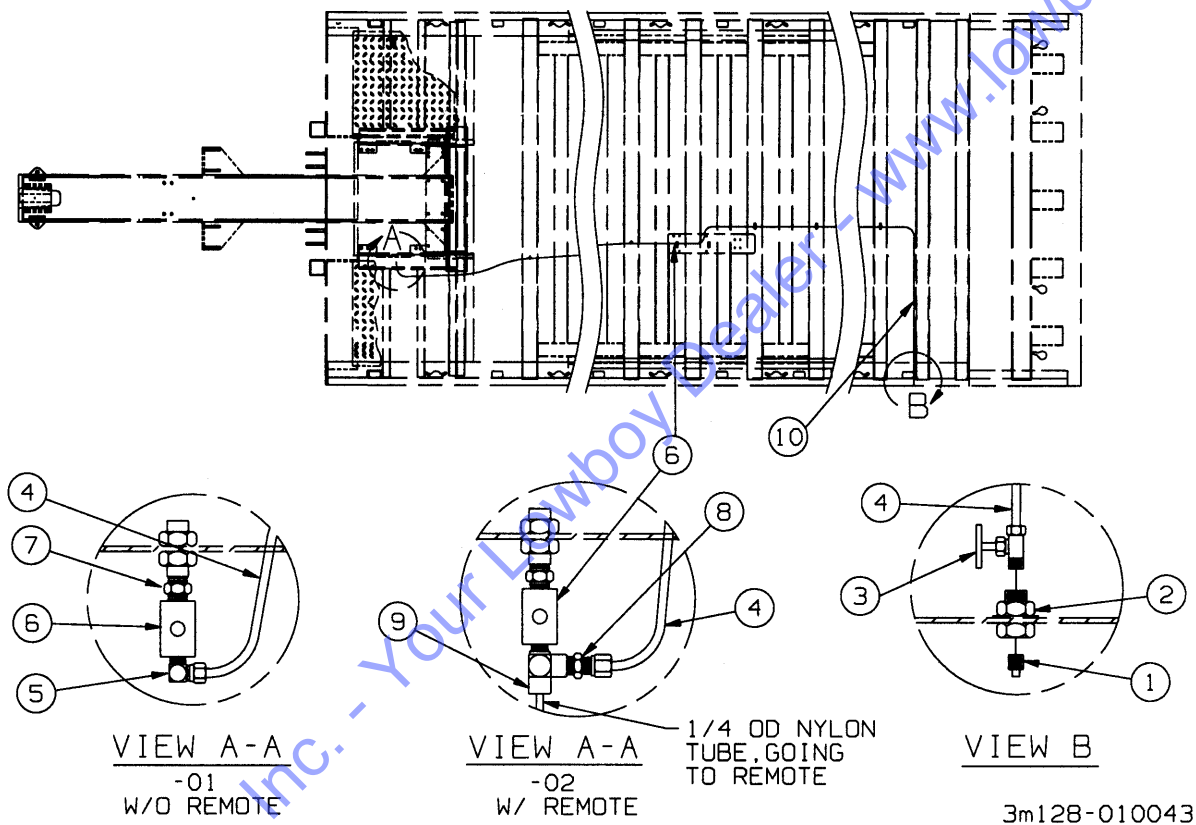
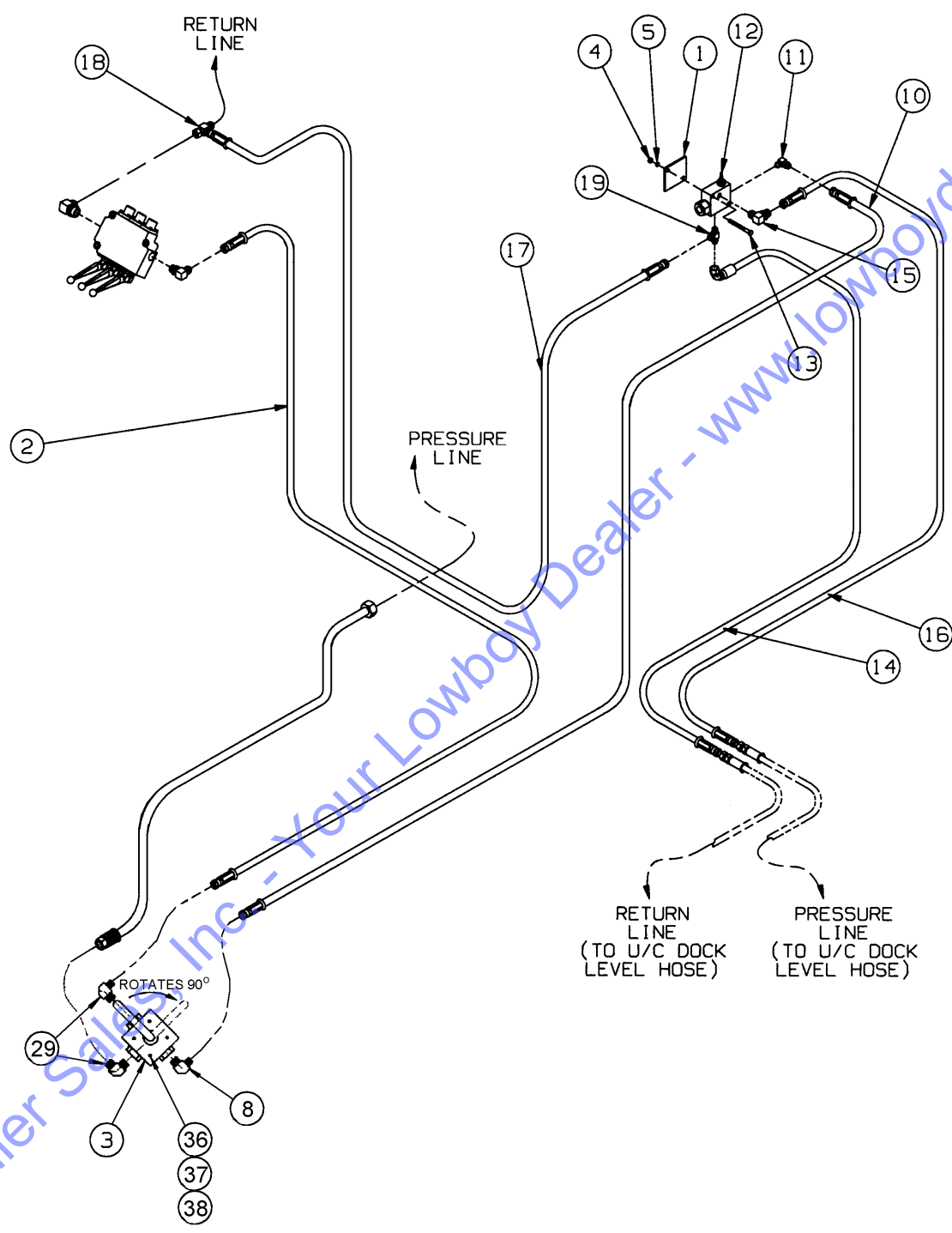


Figure 2-40: Air Outlet Accessory (Option)

**AIR OUTLET ACCESSORY (OPTION)**

| ITEM | PART NO.        | DESCRIPTION                     | QTY. |
|------|-----------------|---------------------------------|------|
|      | 3-128-010043-01 | AIR OUTLET ACCESSORY W/O REMOTE |      |
|      | 3-128-010043-02 | AIR OUTLET ACCESSORY W/ REMOTE  |      |
| 1    | 1-560-010002-01 | PIPE PLUG 1/4                   | 1    |
| 2    | 1-297-010022-02 | BULKHEAD COUPLING               | 1    |
| 3    | A6760S          | SHUTOFF VALVE                   | 1    |
| 4    | 1-833-010002    | TUBING, NYLON 3/8               | 35'  |
| 5    | 1-297-010008-18 | FITTING, AIR 90                 | *1,- |
| 6    | 905-54-107      | BRAKE PROTECTION VALVE          | *1,- |
| 7    | 1-297-010019-05 | FITTING, BRS PIPE HEX           | *1,- |
| 8    | 1-297-010007-11 | FITTING, AIR                    | *-,1 |
| 9    | 1-297-010018-02 | FITTING, STREET TEE             | *-,1 |
| 10   | 3-181-010034-1  | CLAMP CONDUIT STEEL 1/2         | 13   |

\* FIRST QUANTITY LISTED IS FOR P/N 3-128-010043-01; SECOND QUANTITY LISTED IS FOR P/N 3-128-010043-02.



3ma407-010066

Figure 2-41: Hydraulic Installation Dock Level w/ E-Chain

**HYD. INSTALL. DOCK LEVEL W/ E-CHAIN (OPTION)**

| ITEM | PART NO.        | DESCRIPTION                                | QTY. |
|------|-----------------|--------------------------------------------|------|
|      | 3-407-010066-5  | HYDRAULIC INSTALL. DOCK LEVELER W/ E-CHAIN |      |
| 1    | 3-482-010267    | MOUNT, FLOW REGULATOR                      | 1    |
| 2    | 1-397-010372030 | HOSE ASSEMBLY 1/2 X 30-1/2                 | 1    |
| 3    | 111696          | VALVE, HYD SELECTOR, 3 WAY                 | 1    |
| 4    | 1-512-010005-03 | NUT, HEX LOCK 5/16-18 GRB                  | 4    |
| 5    | 1-861-010032-09 | WASHER, FLAT 5/16                          | 4    |
| 8    | 2062-12-8S      | ADAPTER, 90                                | 1    |
| 10   | 1-397-010301028 | HOSE ASSEMBLY 1/2 X 28                     | 1    |
| 11   | 2062-8-8S       | ADAPTER, 90                                | 1    |
| 12   | 1-626-010002-03 | REGULATOR, FLOW 1/2 BYPASS ONLY            | 1    |
| 13   | 1-654-010049-11 | SCREW, HEX HEAD CAP 5/16-18 X 2-1/2 GR5    | 2    |
| 14   | 1-397-010309110 | HOSE ASSEMBLY 3/8 X 110                    | 1    |
| 15   | 2062-8-6S       | ELBOW, 90                                  | 1    |
| 16   | 1-397-010307110 | HOSE ASSEMBLY 3/8 X 110                    | 1    |
| 17   | 1-397-010306032 | HOSE ASSEMBLY 1/2 X 32                     | 1    |
| 18   | 203102-12-12S   | ADAPTER, TEE                               | 1    |
| 19   | 203005-8-8S     | ADAPTER, TEE                               | 1    |
| 26   | 3-181-010006    | HOSE CLAMP (USED W/ DOCK LEV.)(NOT SHOWN)  | 5    |
| 27   | 2-181-010001    | HOSE CLAMP (USED W/O DOCK LEV.)(NOT SHOWN) | -5   |
| 29   | 2062-12-12S     | ADAPTER, 90                                | 2    |
| 36   | 111024          | SCREW, BUTTON HEAD CAP M6 X 14mm           | 4    |
| 37   | 1-861-010032-07 | WASHER, FLAT 1/4                           | 4    |
| 38   | 1-861-010034-09 | WASHER, SPLIT LOCK 1/4                     | 4    |

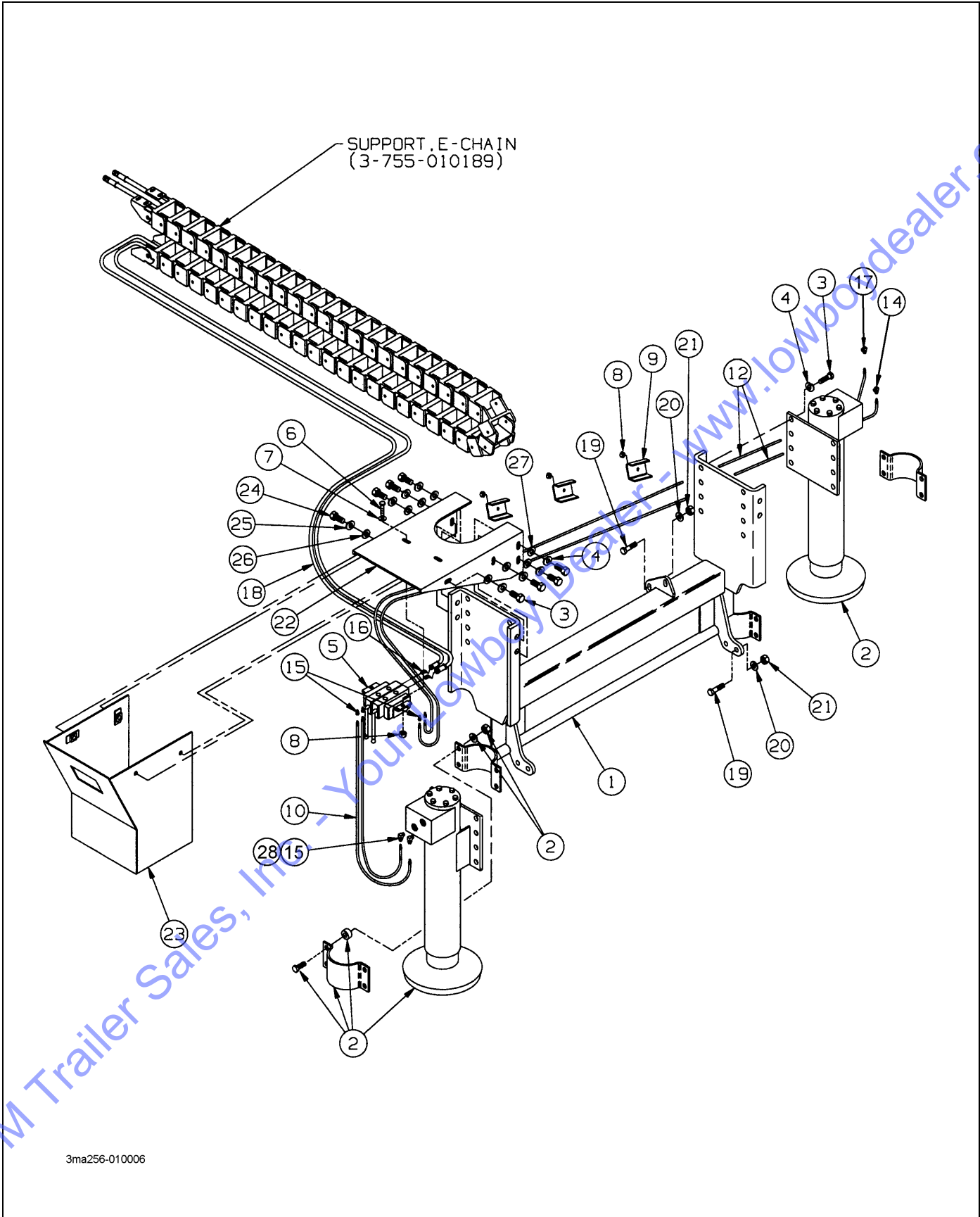
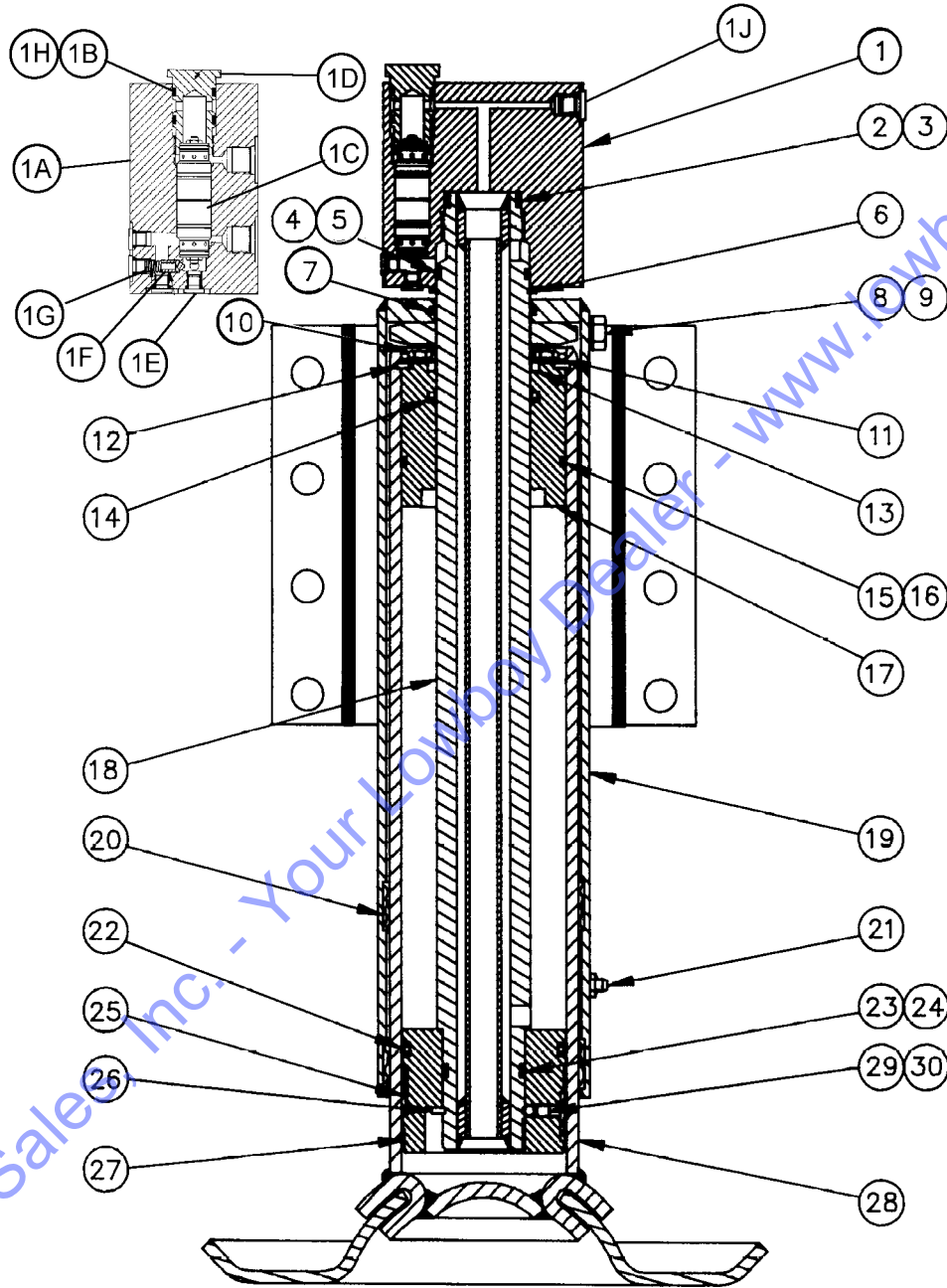


Figure 2-42: Dock Leveler Assembly



**DOCK LEVELER ASSEMBLY (OPTION)**

| ITEM | PART NO.        | DESCRIPTION                               | QTY. |
|------|-----------------|-------------------------------------------|------|
|      | 117493          | DOCK LEVELER ASSEMBLY A/R 60K 345         |      |
| 1    | 117489          | MOUNT WELDMENT, DOCK LEVEL HD 345         | 1    |
| 2    | 3-242-010205    | CYLINDER, HYD D/L 4 X 15 (SEE PAGE 2-73)  | 2    |
| 3    | 1-654-010059-01 | SCREW, HEX HEAD CAP 5/8-11 X 1 GR5        | 24   |
| 4    | 1-861-010034-15 | WASHER, SPLIT LOCK 5/8                    | 24   |
| 5    | 3-846-010056    | VALVE, DOUBLE SPOOL (SEE PAGE 2-75)       | 1    |
|      | 179649          | VALVE, DOUBLE SPOOL                       | 1    |
| 6    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5        | 2    |
| 7    | 1-861-010032-11 | WASHER, FLAT 3/8                          | 2    |
| 8    | 1-510-010001    | NUT, FLANGE LOCK 3/8-16                   | 6    |
| 9    | 2-181-010001    | HOSE CLAMP                                | 4    |
| 10   | 1-397-010262-4  | HOSE ASSEMBLY 1/4 X 18                    | 2    |
| 12   | 105799          | HOSE ASSEMBLY 1/4 X 88                    | 2    |
| 14   | 2062-6-4S       | ADAPTER, 90                               | 4    |
| 15   | 202702-6-4S     | ADAPTER, STR                              | 6    |
| 16   | 2061-6-6S       | ADAPTER, 45                               | REF  |
| 17   | 1-007-010058    | ADAPTER, HYD                              | 2    |
| 18   | 1-397-010307216 | HOSE ASSEMBLY 3/8 X 216                   | 2    |
| 19   | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5    | 8    |
| 20   | 1-861-010032-14 | WASHER, FLAT 1/2N                         | 8    |
| 21   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                  | 8    |
| 22   | 3-120-010351    | BRACKET, BOLT ON DOCK LEVEL               | 1    |
| 23   | 3-681-010098    | SHIELD, D/L VALVE R22.5                   | 1    |
| 24   | 1-654-010055-02 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5    | 4    |
| 25   | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2                    | 4    |
| 26   | 1-861-010032-15 | WASHER, FLAT 1/2W                         | 4    |
| 27   | 1-861-010032-18 | WASHER, FLAT 5/8N                         | 4    |
| 28   | 138155          | ADAPTER, 90                               | 4    |
| 29   | 1-394-010002    | HOSE, ABRASION SLEEVE X 2-7/8 (NOT SHOWN) | 1    |



dckleg2a

Figure 2-43: Dock Leveler Leg Assembly w/ Lock Valve

## LEG ITEMS, DOCK LEVELER W/ LOCK VALVE

| ITEM | PART NO.     | DESCRIPTION                                     | QTY. |
|------|--------------|-------------------------------------------------|------|
|      | 3-242-010205 | COMPLETE ASSY LEG CYL (60,000# CAP. 4.00" BORE) |      |
| 1    | 300092       | 4:1 LOCK VALVE ASSY                             | 1    |
| 1A   | 300093       | 4:1 LOCK VALVE BODY                             | 1    |
| 1B   | 01-1006      | O-RING                                          | 2    |
| 1C   | 300427       | PILOT OPERATED CHECK VALVE                      | 2    |
| 1D   | 300022       | RETAINING PLUG                                  | 1    |
| 1E   | 07-1061      | HEX PLUG HOLLOW #02 SAE                         | 5    |
| 1F   | 300003       | POPPET                                          | 1    |
| 1G   | 31-1016      | SPRING                                          | 1    |
| 1H   | 05-1009      | BACK-UP WASHER                                  | 2    |
| 1J   | 07-1201      | HEX PLUG HOLLOW #04 SAE                         | 1    |
| 2    | NSS**        | O-RING                                          | 1    |
| 3    | NSS**        | BACK-UP WASHER                                  | 2    |
| 4    | NSS**        | O-RING                                          | 1    |
| 5    | NSS**        | BACK-UP WASHER                                  | 1    |
| 6    | NSS**        | SNAP RING 2" ROD                                | 1    |
| 7    | NSS**        | O-RING                                          | 1    |
| 8    | 15-1021      | SCREW HEX HEAD CAP                              | 1    |
| 9    | 16-1002      | LOCK WASHER                                     | 1    |
| 10   | 15-1012      | SCREW HEX HEAD CAP                              | 4    |
| 11   | 100279       | CYLINDER HEAD RETAINER                          | 1    |
| 12   | NSS**        | RETAINING RING                                  | 1    |
| 13   | NSS**        | OIL SEAL                                        | 1    |
| 14   | NSS**        | ROD SEAL                                        | 1    |
| 15   | NSS**        | O-RING                                          | 1    |
| 16   | NSS**        | BACK-UP WASHER                                  | 1    |
| 17   | 100276       | CYLINDER HEAD                                   | 1    |
| 18   | ***          | PISTON ROD                                      | 1    |
| 19   | ***          | WELL TUBE                                       | 1    |
| 20   | NSS**        | WEAR RING                                       | 2    |
| 21   | 10-1001      | GREASE FITTING                                  | 1    |
| 22   | NSS**        | PISTON SEAL                                     | 1    |
| 23   | NSS**        | O-RING                                          | 1    |
| 24   | NSS**        | BACK-UP WASHER                                  | 2    |
| 25   | NSS**        | WEAR RING                                       | 1    |
| 26   | 17-1003      | SNAP RING                                       | 1    |
| 27   | ***          | PISTON                                          | 1    |
| 28   | ***          | CYLINDER TUBE                                   | 1    |
| 29   | NSS**        | NYLON BALL                                      | 1    |
| 30   | NSS**        | SET SCREW                                       | 1    |
| 31   | 100348       | SPLIT COLLAR ASSY (60,000 LB.)(NOT SHOWN)       | 1    |
|      | 100140       | SPLIT COLLAR HALF (60,000 LB.)                  | 2    |
|      | 101449       | LEG COLLAR MOUNTING KIT( INCL. THE FOLLOWING:)  | 1    |
|      | 15-1024      | SCREW, HEX HEAD CAP 1/2-20 X 2 GR5              | 4    |
|      | 15-1025      | NUT, HEX LOCK 1/2-20                            | 4    |
|      | 101129-1     | SPACER, SPLIT COLLAR                            | 4    |

\* - ITEMS ARE CONTAINED IN THE LOCK VALVE REPAIR KIT 300085 (NSS)

\*\* - ITEMS ARE CONTAINED IN LEG REPAIR KIT 100422 (4.00" BORE) (NSS).

\*\*\* STATE MODEL NUMBER AND PART DESCRIPTION WHEN ORDERING.

NSS: NOT SOLD SEPARATELY

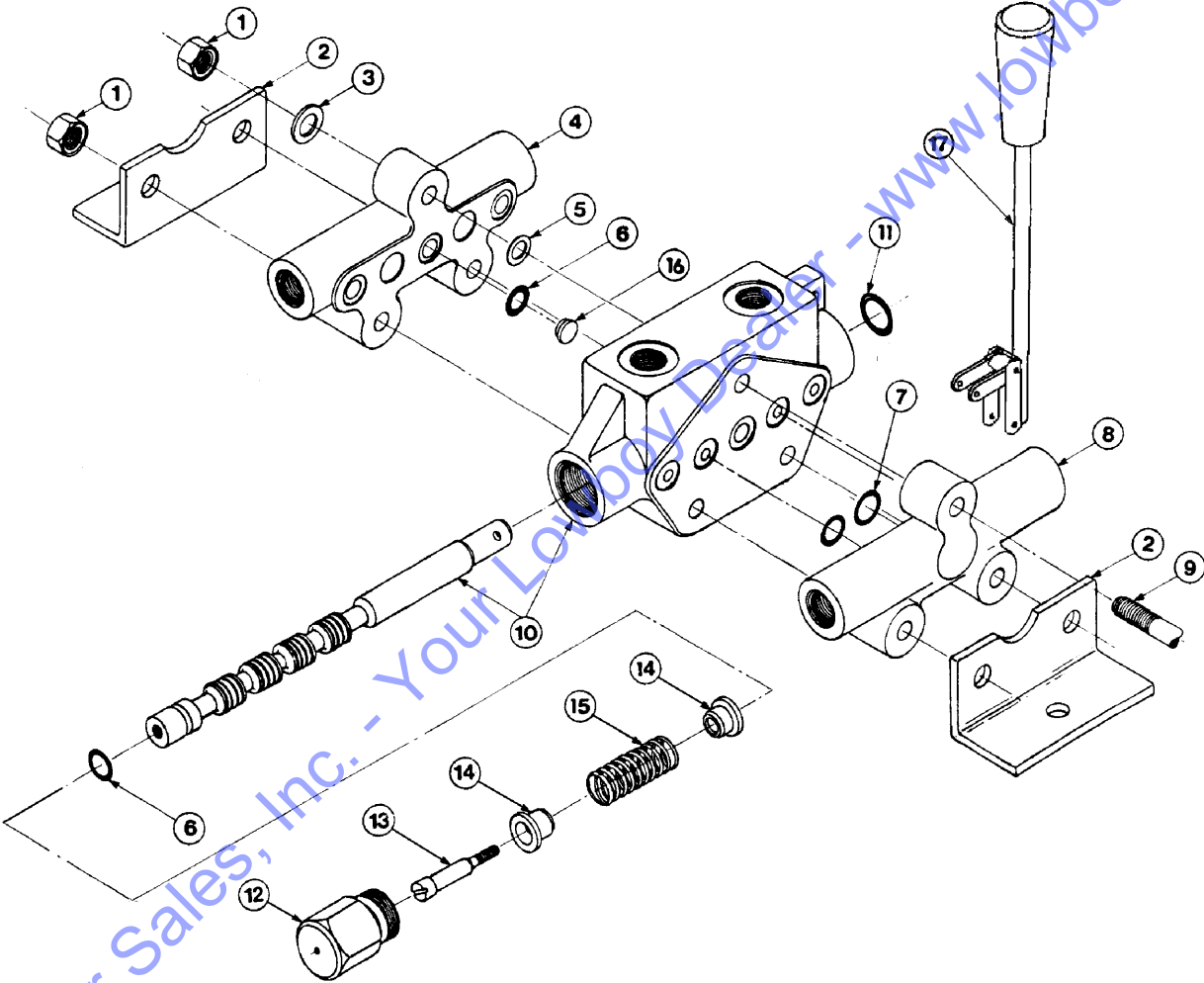
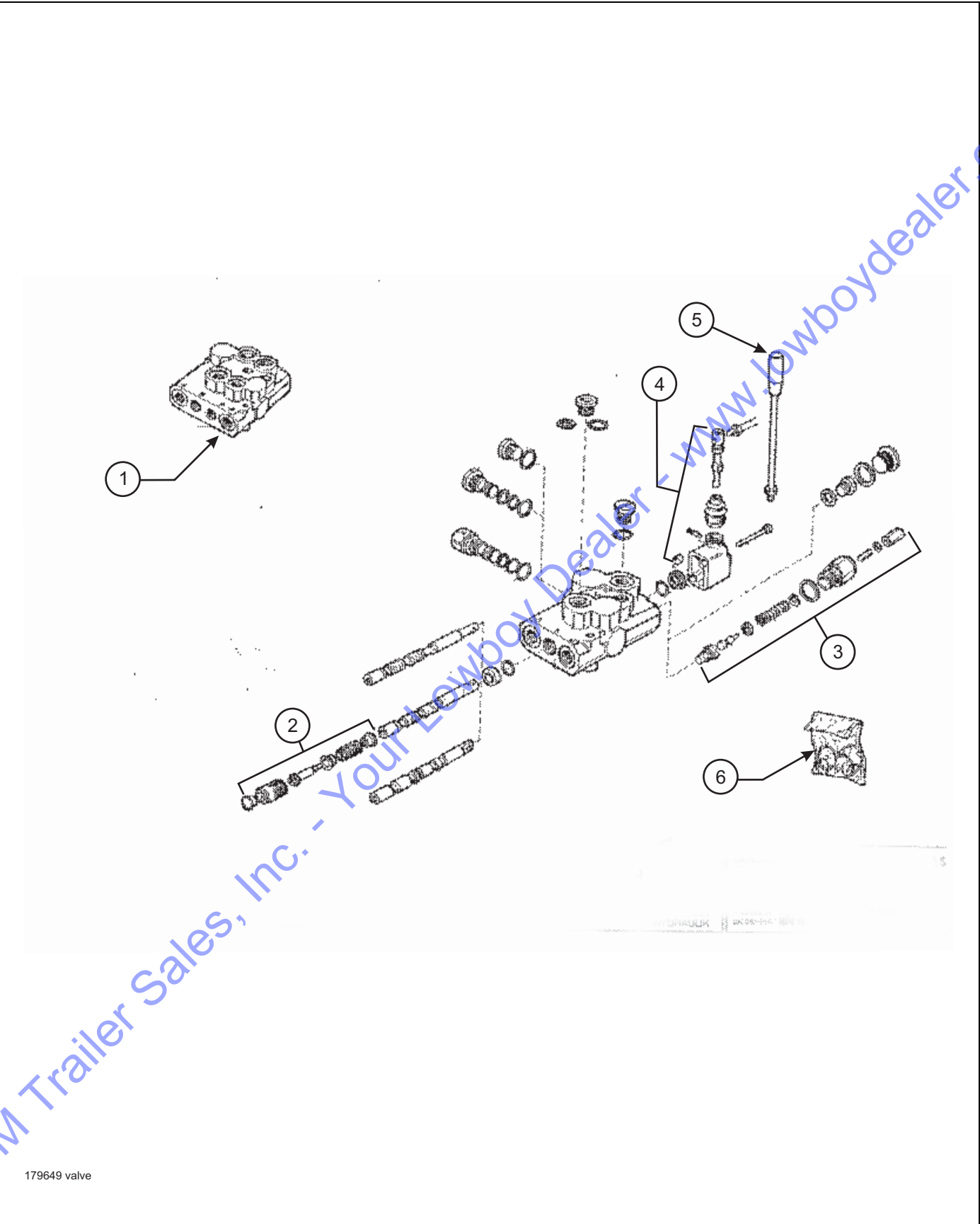


Figure 2-44: Dock Leveler Valve

**DOCK LEVELER VALVE (Before 01/15/2014)**

| ITEM | PART NO.     | DESCRIPTION                                       | QTY. |
|------|--------------|---------------------------------------------------|------|
|      | 3-846-010056 | DOUBLE SPOOL STACK VALVE-PARALLEL                 | 1    |
| 1    | 1005013      | NUT                                               | 3    |
| 2    | 4014240      | MOUNTING BRACKET                                  | 2    |
| 3    | 1008008      | WASHER                                            | 2    |
| 4    | 6402000      | OUTLET SECTION (INCLUDES SEALS)                   | 1    |
|      | 6029521      | OUTLET SEAL KIT                                   |      |
| 5    | 4023150      | MYLAR SHIM (BETWEEN SECTIONS)                     | 3    |
| 6    | 0101012      | O-RING                                            | 1    |
| 7    | 0101013      | O-RING                                            | 10   |
| 8    | 6401003      | INLET SECTION (INCLUDES SEALS)                    | 1    |
|      | 6009250      | INLET SEAL KIT                                    |      |
| 9    | 4023774      | TIE ROD                                           | 3    |
| 10   | 6400000      | VALVE SECTION                                     | 2    |
|      | 6029520      | VALVE SECTION SEAL KIT (INCL ITEMS 5, 6, 7, & 11) | 6    |
| 11   | 0101112      | O-RING                                            | 2    |
| 12   | 4010500      | SPRING CAP                                        | 2    |
| 13   | 4010520      | SPRING SHAFT                                      | 2    |
| 14   | 4010530      | SPRING GUIDE                                      | 4    |
| 15   | —            | SPRING                                            | 2    |
| 16   | 4011702      | CLOSED CENTER PLUG                                | 1    |
| 17   | 6405000      | HANDLE KIT                                        | 2    |
|      | 6404002      | BANKING KIT (INCLUDES ITEMS 1, 2, 3, & 9)         | 2    |
|      | 128865       | SEAL KIT FOR 3-846-010056                         |      |



179649 valve

Figure 2-45: Dock Leveler Valve (After 01/15/2014)

**DOCK LEVELER VALVE (After 01/15/2014)**

| ITEM | PART NO.     | DESCRIPTION                        | QTY. |
|------|--------------|------------------------------------|------|
| 1    | 179649       | DOUBLE SPOOL STACK VALVE-PARALLEL, |      |
| 2    | 20768510010  | SPOOL POSITIONER SPRING CENTER     | 1    |
| 3    | 20787400710  | RELIEF VALVE ASSEMBLY              | 1    |
| 5    | 200707010070 | SPOOL OPERATOR                     | 1    |
| 6    | 200702210230 | HANDLE                             | 1    |
| 7    | 200773800350 | SEAL KIT                           | 1    |

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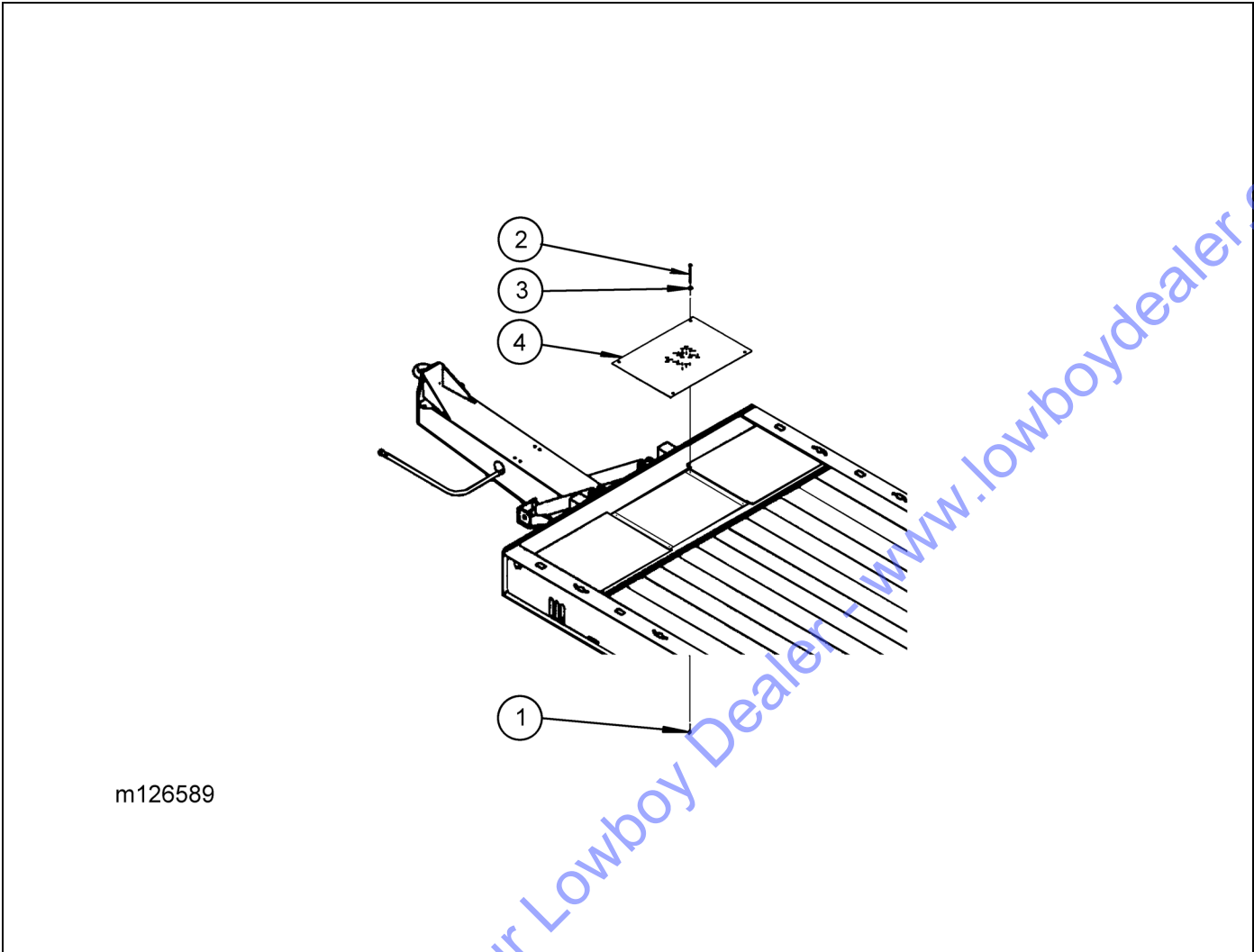


Figure 2-46: Winch Opening Cover Assembly (Option)

WINCH OPENING COVER ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 126589          | COVER, WINCH OPENING ASSEMBLY          |      |
| 1    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB               | 4    |
| 2    | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5 | 4    |
| 3    | 1-861-010032-15 | WASHER, FLAT 1/2W                      | 4    |
| 4    | 126588          | COVER, WINCH OPENING                   | 1    |



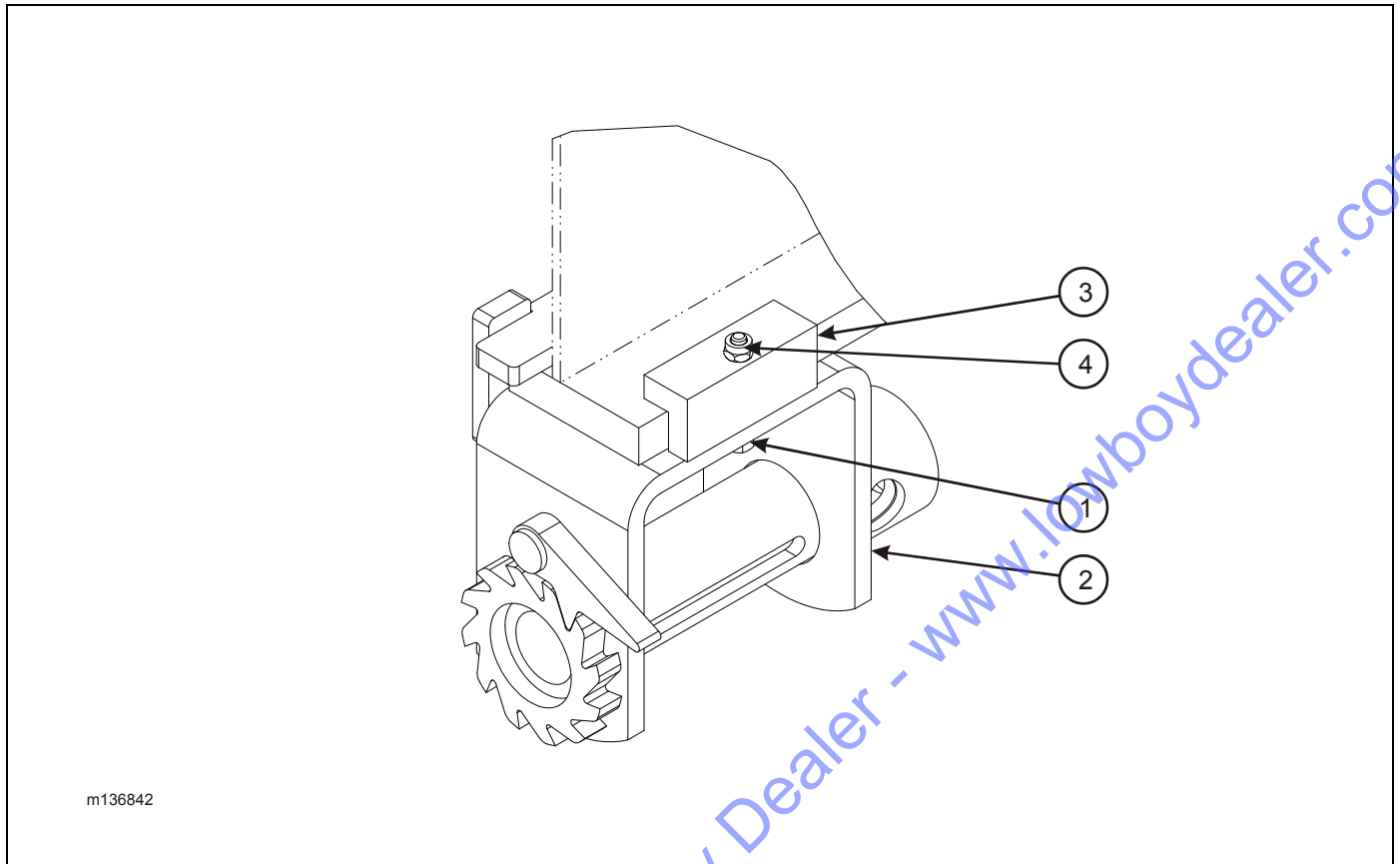
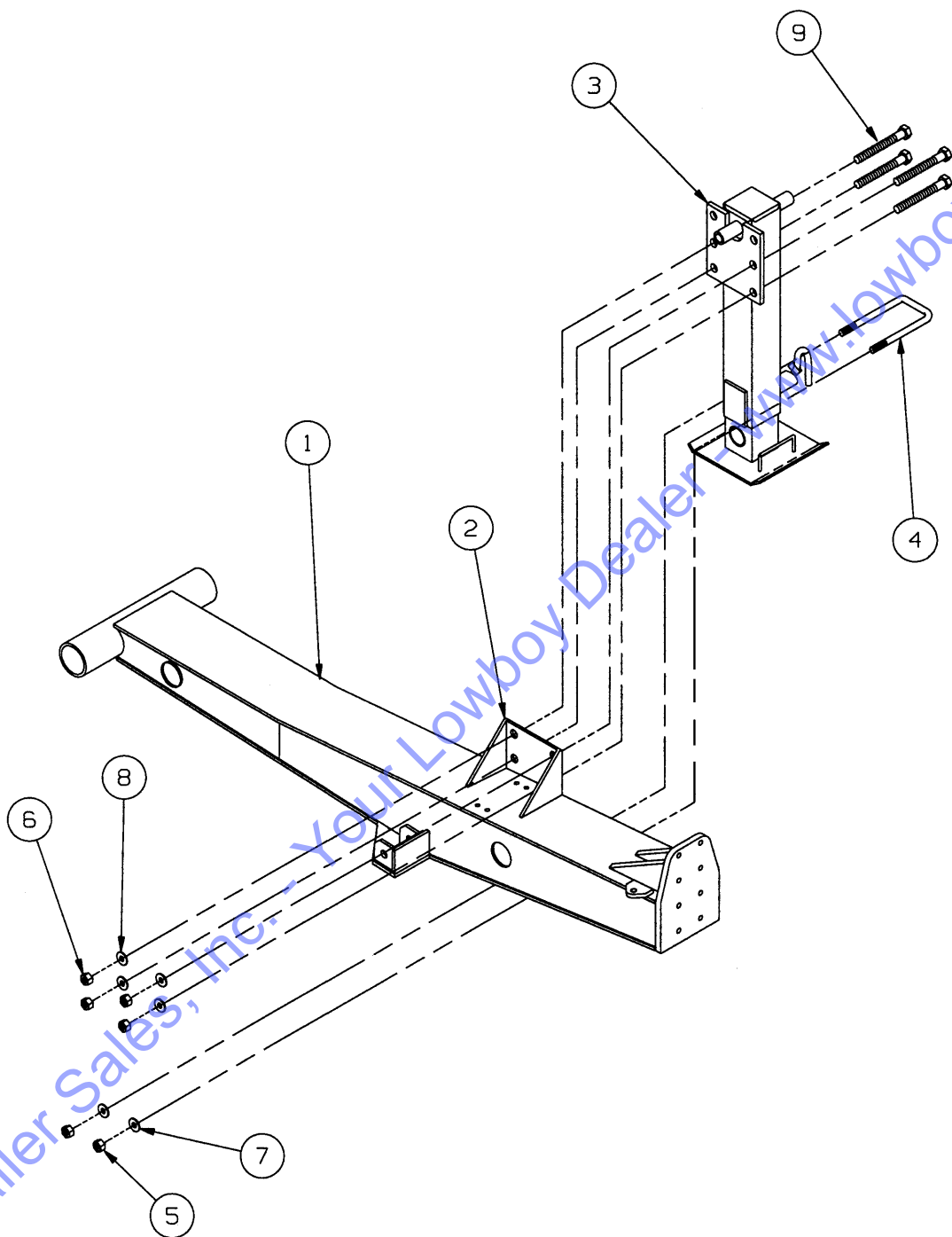


Figure 2-47: Winch Assembly, 4" Webbing Sliding (Option)

**WINCH ASSEMBLY, 4" WEBBING SLIDING (OPTION)**

| ITEM | PART NO.        | DESCRIPTION                        | QTY. |
|------|-----------------|------------------------------------|------|
|      | 136842          | WINCH ASSEMBLY, 4" WEBBING SLIDING |      |
| 1    | 106046          | SCREW, HEX HEAD CAP 1/4-20 X 2 GR8 | 1    |
| 2    | 136843          | WINCH WEBBING SLIDE MOD.           | 1    |
| 3    | 136846          | CLAMP, SLIDING WEB WINCH           | 1    |
| 4    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB           | 1    |



3m423-010036

Figure 2-48: Jack Installation, 12K, 5" Hitch Dock Level w/ E-Chain

**JACK INSTALLATION, 12K, 5FT HITCH (OPTION)**

| ITEM | PART NO.        | DESCRIPTION                                 | QTY. |
|------|-----------------|---------------------------------------------|------|
|      | 3-423-010036    | JACK INSTALLATION, 12K, 5' HITCH            |      |
| 1    | 3-375-010140    | HITCH ASSEMBLY 5 FT                         | REF  |
| 2    | 3-125-010542    | BRACKET, INSTALLATION 12K JACK              | REF  |
| 3    | 3-423-010037    | JACK WELDMENT 12K, 5' HITCH (SEE PAGE 2-81) | 1    |
| 4    | 6-102-010009    | U-BOLT, RIGID GAUGE WHEEL                   | 1    |
| 5    | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                    | 2    |
| 6    | 1-512-010005-15 | NUT, HEX LOCK 3/4-10 GRB                    | 4    |
| 7    | 1-861-010032-19 | WASHER, FLAT 5/8W                           | 2    |
| 8    | 1-861-010032-21 | WASHER, FLAT 3/4W                           | 4    |
| 9    | 1-654-010061-03 | SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 GR5      | 4    |

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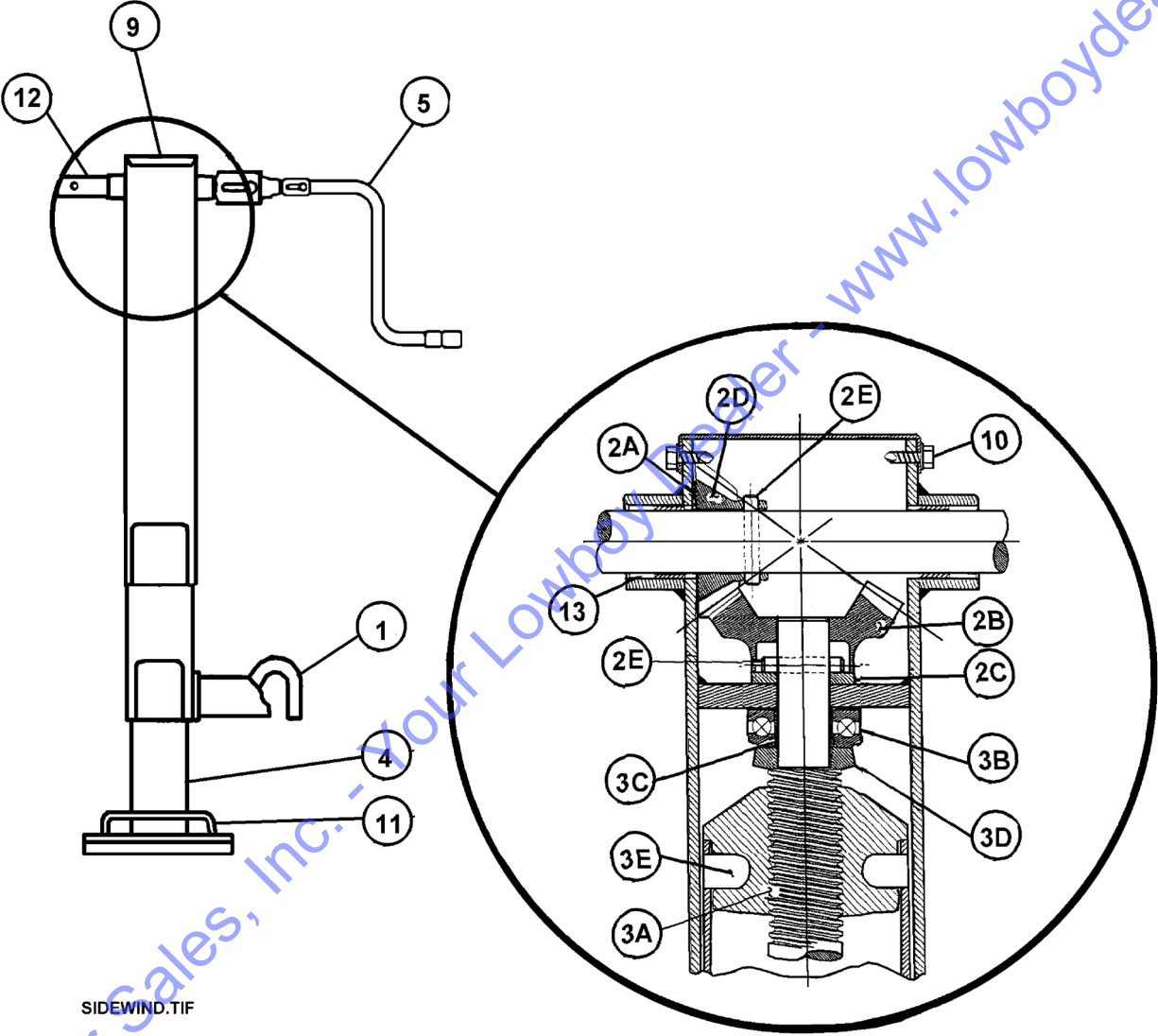


Figure 2-49: Jackstand Assembly Dock Level w/ E-Chain

**JACKSTAND ASSEMBLY (OPTION)**

| ITEM | PART NO.     | DESCRIPTION                                                                                                                         | QTY. |
|------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|------|
|      | 3-423-010035 | JACK 12000 DROPLEG W/ CRANK (HAMMERBLOW P/N 182400)                                                                                 |      |
| 1    | 500177       | PLUNGER KIT, W/ "J" PIN (INCL PLUNGER PIN, SPRING, WASHER, AND 3/16 X 1 COTTER PIN)                                                 |      |
| 2    | 500212       | GEAR KIT, STYLE III JACKS CONSISTS OF THE FOLLOWING:                                                                                |      |
| 2A   | 016013       | WEAR PLATE 22 GAGE                                                                                                                  |      |
| 2B   | 020023       | BEVEL GEAR LARGE 18 TEETH                                                                                                           |      |
| 2C   | 016053       | WEAR PLATE 7 GAGE                                                                                                                   |      |
| 2D   | 020022       | BEVEL PINION GEAR SMALL 12 TEETH                                                                                                    |      |
| 2E   | 009062       | 1/4" X 1-1/2" GROOVE PIN                                                                                                            |      |
| 2F   | 011905       | SERVICE BULLETIN (NOT SHOWN)                                                                                                        |      |
| 3    | 500213       | SCREW & NUT REPLACEMENT KIT (CONSISTS OF THE FOLLOWING:)                                                                            |      |
| 3A   | 712205       | SCREW AND NUT ASSEMBLY                                                                                                              |      |
| 3B   | 001003       | 2.015" O.D. BEARING                                                                                                                 |      |
| 3C   | 021163       | SPLIT BUSHING                                                                                                                       |      |
| 3D   | 016048       | BEARING SEAT                                                                                                                        |      |
| 3E   | 009052       | RETAINING PIN                                                                                                                       |      |
| 3F   | 011905       | SERVICE BULLETIN (NOT SHOWN)                                                                                                        |      |
| 4    | 701178       | INNER RAM AND STANDARD DROP LEG ASSEMBLY (INCLUDES DROP LEG W/ BASE AND LIFT HANDLE, INNER RAM W/ NEW CAM-LOCK HOUSING AND "J" PIN) |      |
| 5    | 015181       | CRANK ASSEMBLY FOR SIDEWIND SIDE MOUNT                                                                                              |      |
|      | 701140       | CRANK HANDLE NARROW VERT CLEVIS W/ RD CORN                                                                                          |      |
|      | 015191       | 3/8" X 2-1/2" PLATED HEX BOLT                                                                                                       |      |
|      | 008008       | 3/8" PLATED LOCKNUT                                                                                                                 |      |
|      | 015911       | 3/8" PLATED WASHER                                                                                                                  |      |
| 6    | 005120       | HANDLE CLIP (NOT SHOWN)                                                                                                             |      |
| 9    | 017802       | SQUARE GEARBOX COVER                                                                                                                |      |
| 10   | 017806       | COVER SCREW                                                                                                                         |      |
| 11   | 021040       | BASE PLATE LIFT HANDLE                                                                                                              |      |
| 12   | 006098       | NEW STYLE (CENTERED) CROSS SHAFT, STYLE III                                                                                         |      |
| 13   | 017012       | SLEEVE BEARING ON CROSS SHAFT                                                                                                       |      |

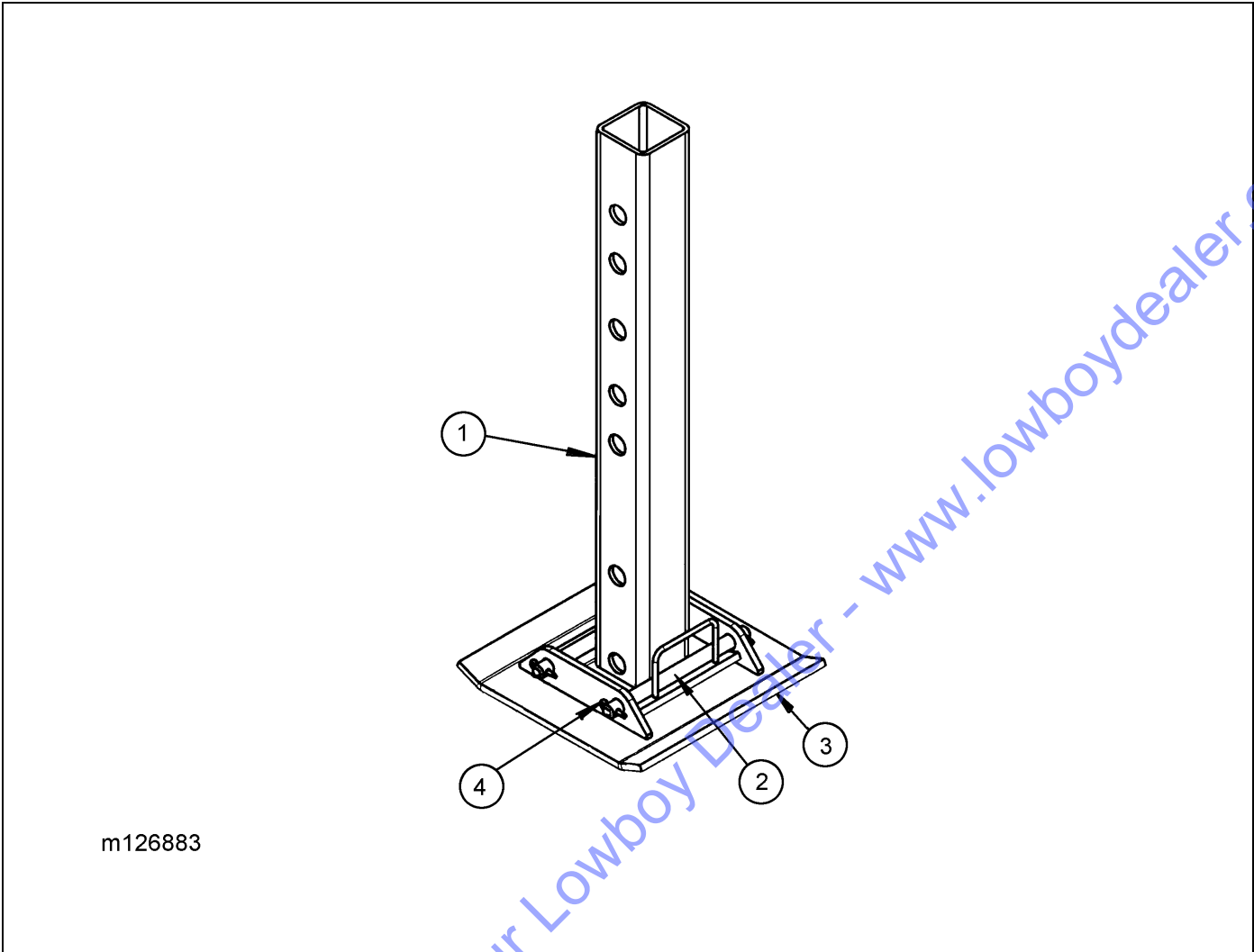


Figure 2-50: Sand Pad Installation (Option)

SAND PAD INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION           | QTY. |
|------|-----------------|-----------------------|------|
|      | 126883          | SAND PAD INSTALLATION |      |
| 1    | 3-311-010145    | PARKING STAND         | REF  |
| 2    | 126881          | PIN, SAND PAD         | 4    |
| 3    | 126879          | SAND PAD WELDMENT     | 2    |
| 4    | 1-557-010362-59 | PIN, COTTER 1/4 X 1   | 8    |

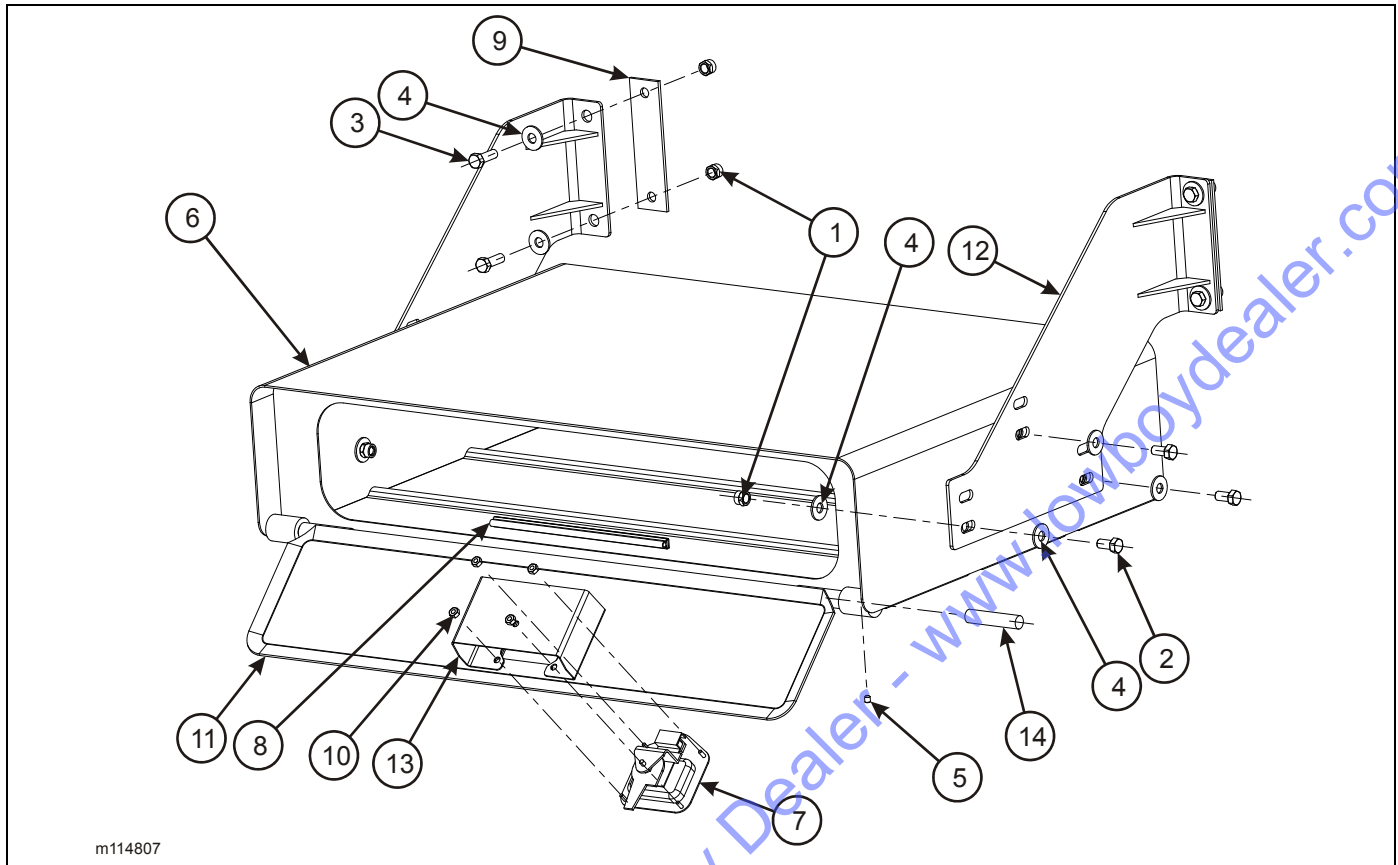


Figure 2-51: Steel Door Toolbox Installation (Option)

## STEEL DOOR TOOLBOX INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 114807          | STEEL DOOR TOOLBOX INSTALLATION        |      |
| 1    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13                   | 10   |
| 2    | 1-654-010055-01 | SCREW, HEX HEAD CAP 1/2-13 X 1 GR5     | 6    |
| 3    | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5 | 4    |
| 4    | 1-861-010032-15 | WASHER, FLAT 1/2W                      | 16   |
| 5    | 107-0975        | SCREW, SET LOCK 5/16-18 X 3/8          | 2    |
| 6    | 114808          | TOOLBOX WELDMENT                       | 1    |
| 7    | 114814          | LATCH FOLDING T LOCKABLE               | 1    |
| 8    | 114815          | SEAL SPONGE RUBBER TRIM                | 7    |
| 9    | 115843          | BAR BACKUP TOOLBOX MOUNTING            | 2    |
| 10   | 115877          | NUT, HEAVY HEX 1/4-20 GR5              | 4    |
| 11   | 116623          | DOOR WELDMENT STEEL TOOLBOX            | 1    |
| 12   | 117860          | BRACKET, WELDMENT TOOLBOX MOUNTING     | 2    |
| 13   | 153420          | TOOLBOX LATCH SHIELD                   | 1    |
| 14   | RPRB59004X3H    | BAR, ROUND 3/4 X 3-1/2 NYLATRON        | 2    |

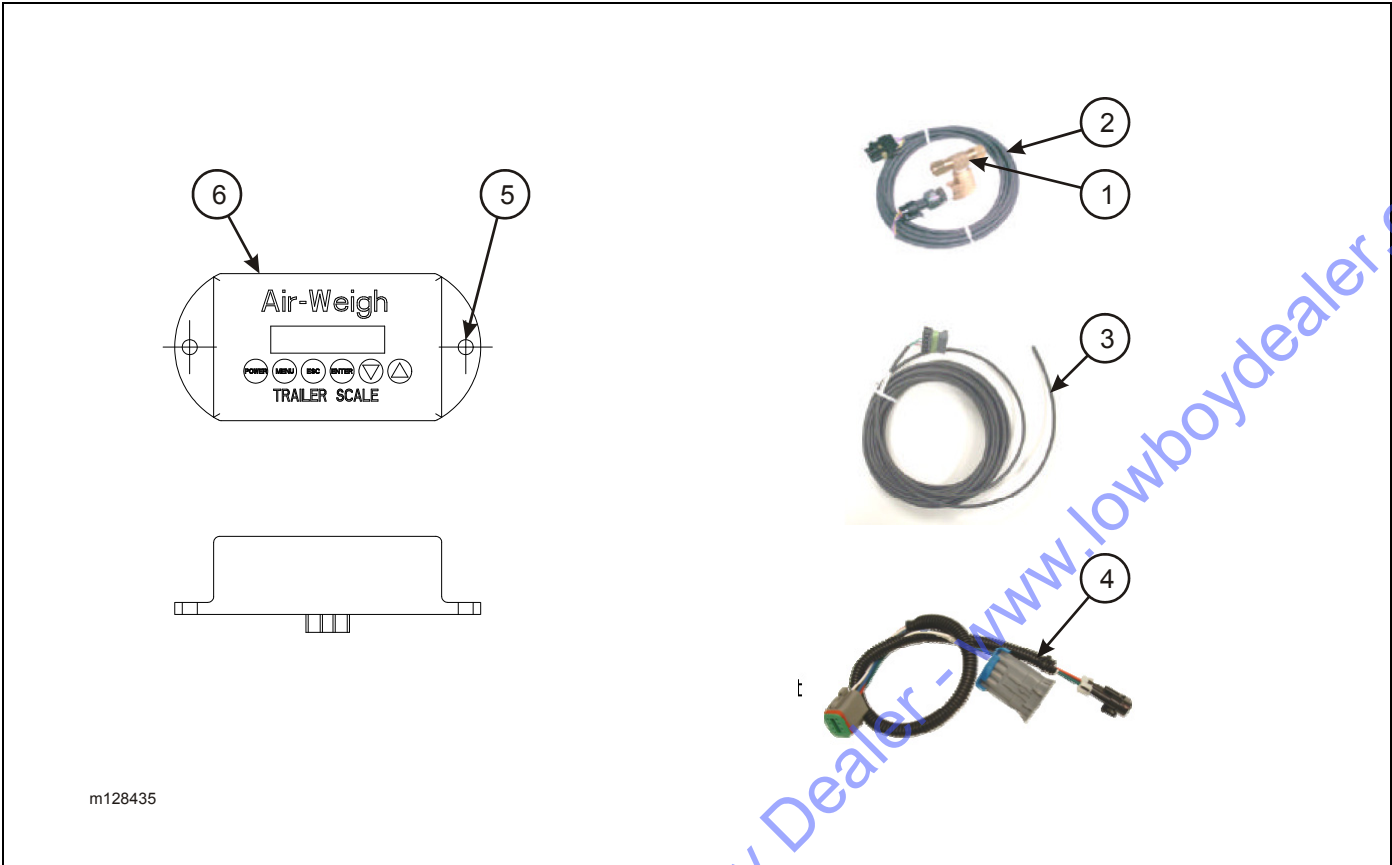


Figure 2-52: Air Digital Scale (Option)

AIR DIGITAL SCALE (OPTION)

| ITEM | PART NO.     | DESCRIPTION                               | QTY. |
|------|--------------|-------------------------------------------|------|
|      | 128435       | SCALE, AIR DIGITAL (TRAVELING AXLE)       |      |
| 1    | 149543       | SENSOR ASSEMBLY, 5V 3/8" BRASS            | 1    |
| 2    | 010-0025-000 | CABLE, AW5800, 2 PART SENSOR 50'          | 1    |
| 3    | 012-1500-005 | CABLE, AW5800 TRAILER POWER BLUNT CUT 15' | 1    |
| 4    | 142895       | CABLE, AW5800, TRAILER SCALE INTERFACE 2" | 1    |
| 5    | 010-0026-000 | HARDWARE KIT, AW 5800                     | 1    |
| 6    | 050-5802-001 | TRAILER SCALE AW5800                      | 1    |
| 7    | 145-4552-001 | NYLON TIE 7" T-50 NYLON (NOT SHOWN)       | 25   |
| 8    | 901-0029-001 | MANUAL, TRAILER SCALE AW5800 (NOT SHOWN)  | 1    |
| 9    | 164-0009-000 | DECAL, AW5800 TRAILER SIDE-M (NOT SHOWN)  | 1    |



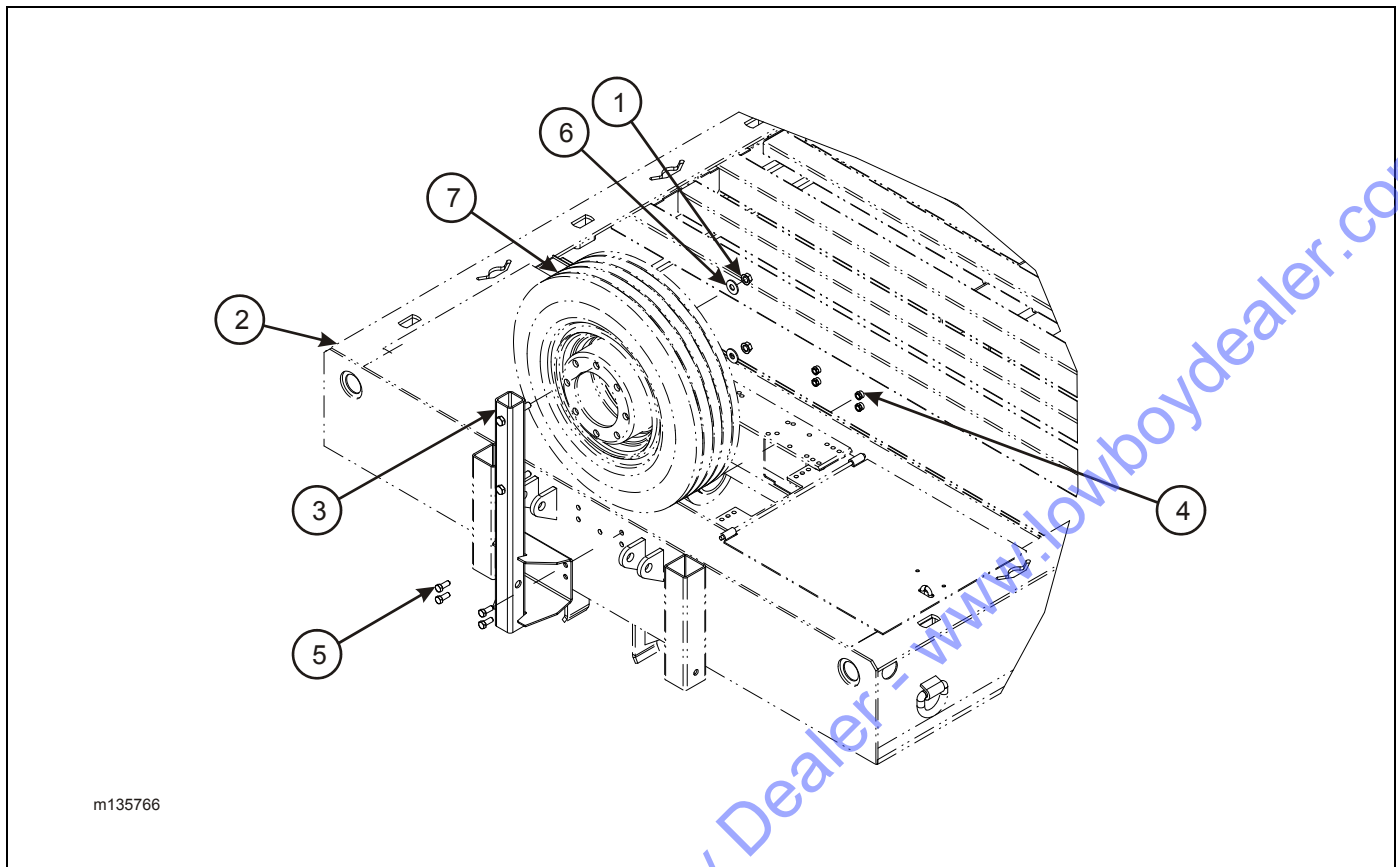


Figure 2-53: Spare Tire Carrier Assembly (Option)

**SPARE TIRE CARRIER ASSEMBLY (OPTION)**

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 135766          | SPARE TIRE CARRIER ASSEMBLY (OPTION)   |      |
| 1    | 103841          | NUT, FLANGE PREVAILING TORQUE 3/4-10   | 2    |
| 2    | ----            | FRAME WELDMENT                         | REF  |
| 3    | 135764          | CARRIER WELDMENT, SPARE TIRE           | 1    |
| 4    | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB               | 1    |
| 5    | 1-654-010059-03 | SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5 | 4    |
| 6    | 1-861-010032-21 | WASHER, FLAT 3/4W                      | 2    |
| 7    | 3-798-010059    | TIRE AND PILOT WHEEL ASSEMBLY          | REF  |

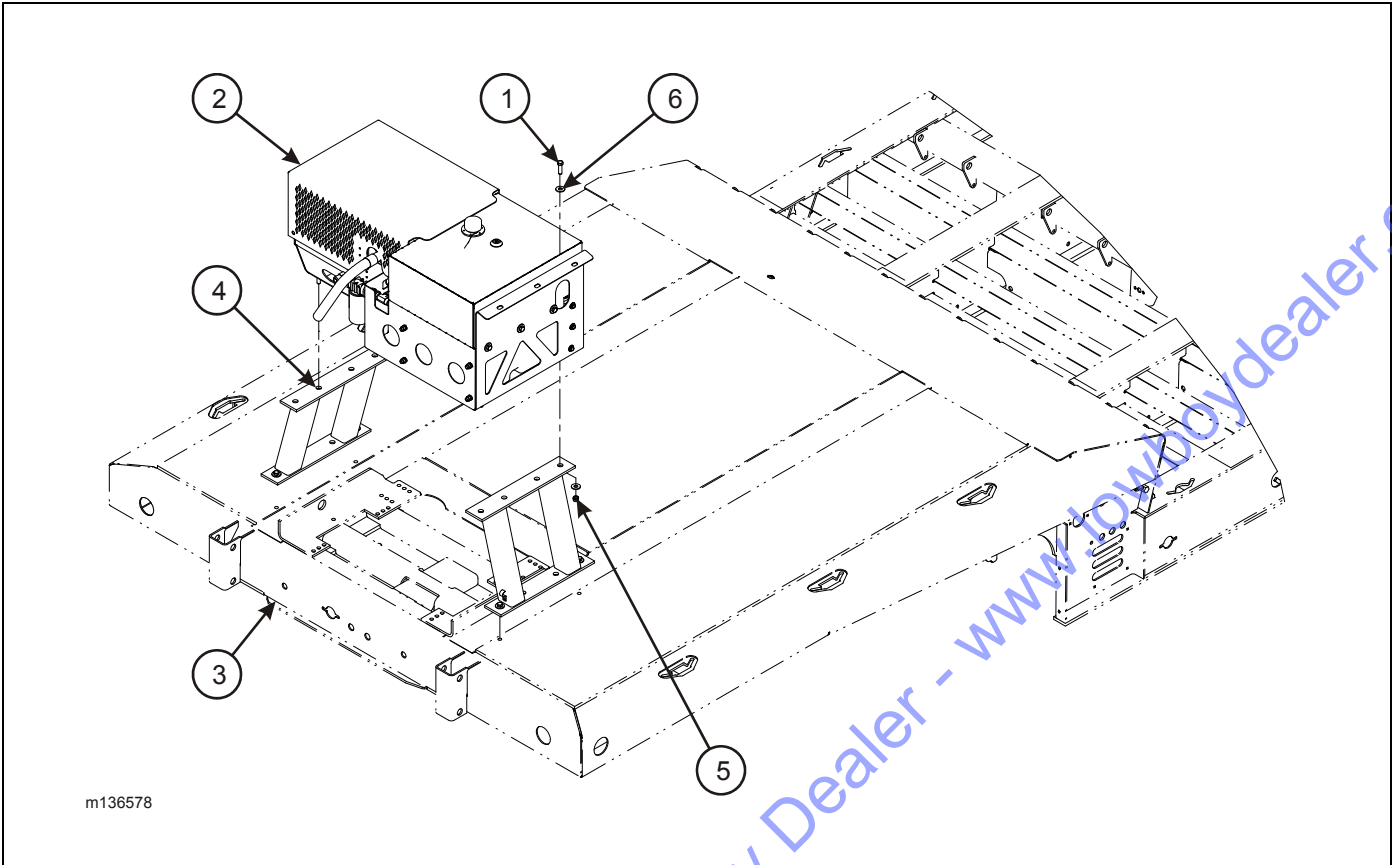


Figure 2-54: Engine Package Stand Installation (Option)

ENGINE PACKAGE STAND INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 136578          | ENGINE PACKAGE STAND INSTALLATION      |      |
| 1    | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5 | 8    |
| 2    | 123166          | ENGINE PACKAGE, 27 HP U/D              | REF  |
| 3    | -----           | FRAME WELDMENT                         | REF  |
| 4    | 134857          | MOUNT WELDMENT, ENGINE PACKAGE         | 2    |
| 5    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB               | 8    |
| 6    | 1-861-010032-15 | WASHER, FLAT 1/2W                      | 16   |

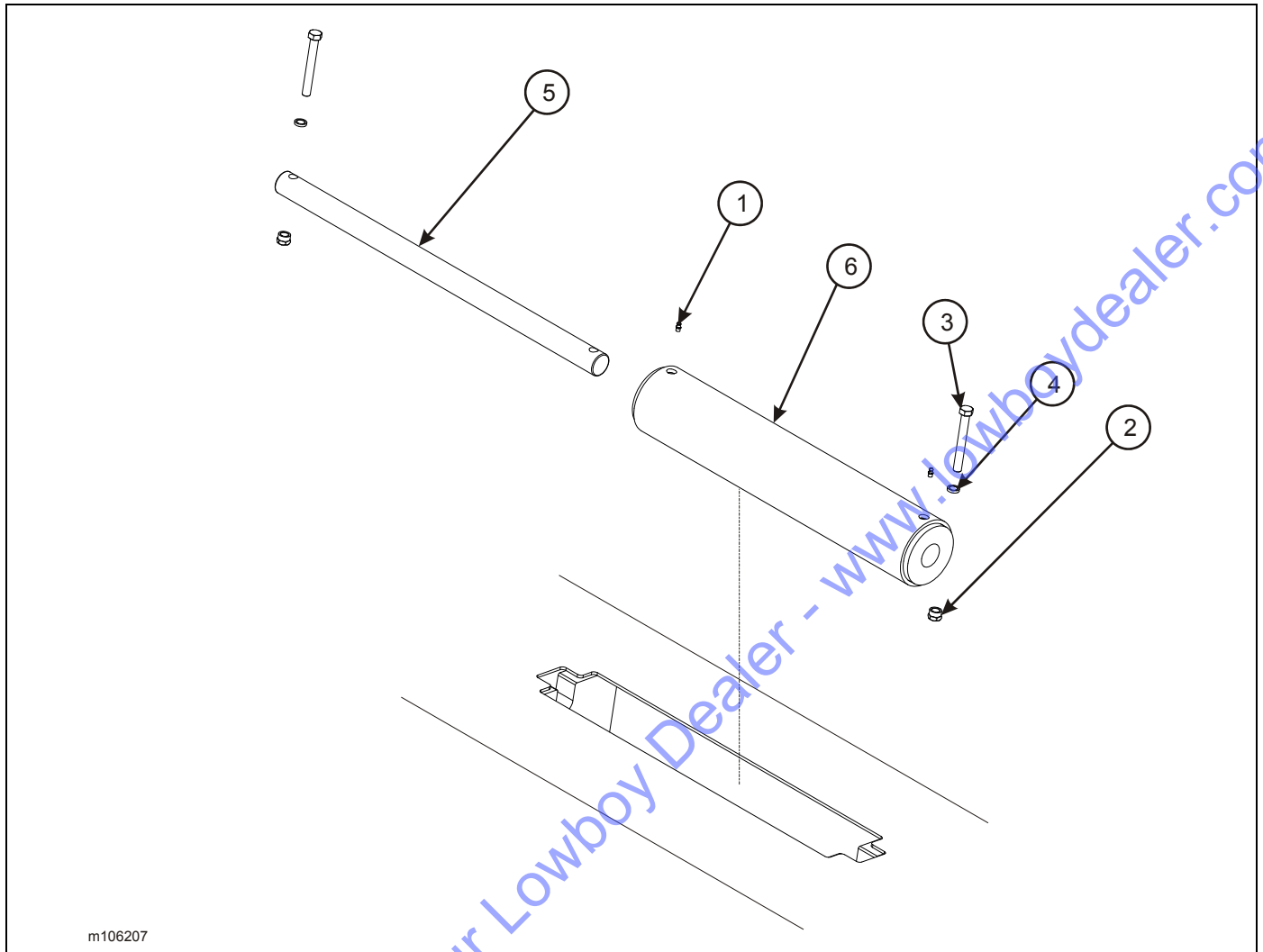


Figure 2-55: Roller, Slope Single Corner (Option)

**ROLLER, SLOPE SINGLE CORNER (OPTION)**

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 106207          | ROLLER, SLOPE SINGLE CORNER            |      |
| 1    | 1-298-010001-1  | ZERK FITTING, 1/4                      | 2    |
| 2    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB               | 2    |
| 3    | 1-654-010055-11 | SCREW, HEX HEAD CAP 1/2-13 X 3-1/2 GR5 | 2    |
| 4    | 1-861-010032-15 | WASHER, FLAT 1/2W                      | 2    |
| 5    | 3-642-010134    | ROD, ROLLER                            | 1    |
| 6    | 3-645-010059    | ROLLER WELDMENT, CABLE                 | 1    |

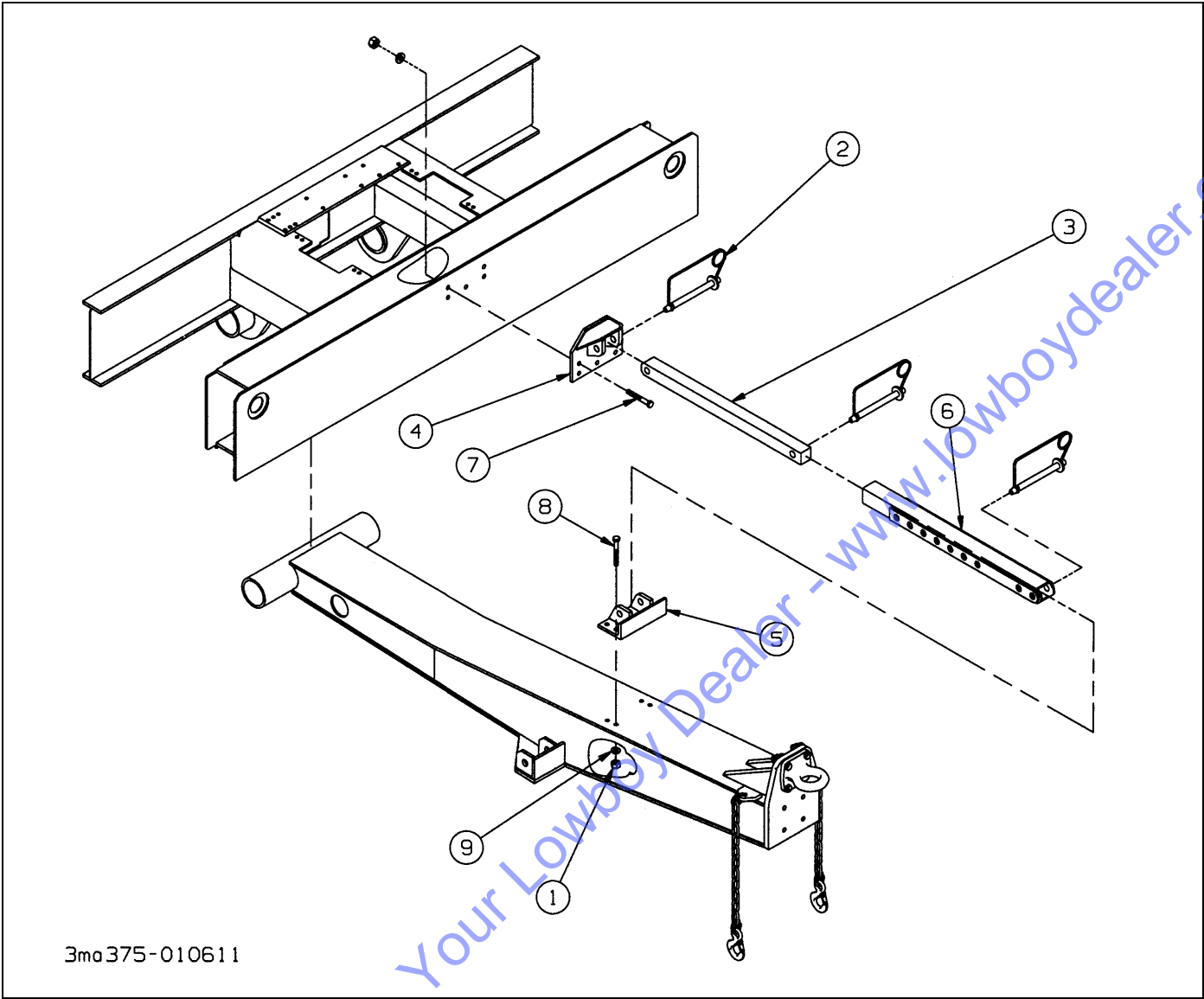


Figure 2-56: Hitch Lock Installation (Option)

## HITCH LOCK INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 3-375-010611    | HITCH LOCK INSTALLATION                |      |
| 1    | 1-512-010007-11 | NUT, HEX 5/8-11 GR2                    | 9    |
| 2    | 100SL           | LOCK, HITCH PIN 1 X 5-1/2              | 3    |
| 3    | 3-311-015070    | SHAFT, TILT LOCK                       | 1    |
| 4    | 3-311-015074    | MOUNT WELDMENT, UPPER                  | 1    |
| 5    | 3-311-015075    | MOUNT WELDMENT, LOWER                  | 1    |
| 6    | 3-311-015078    | TUBE WELDMENT, TILT LOCK               | 1    |
| 7    | 1-654-010059-04 | SCREW, HEX HEAD CAP 5/8-11 X 1-3/4 GR5 | 5    |
| 8    | 1-654-010059-05 | SCREW, HEX HEAD CAP 5/8-11 X 2 GR5     | 4    |
| 9    | 1-861-010034-15 | WASHER, SPLIT LOCK 5/8                 | 9    |

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