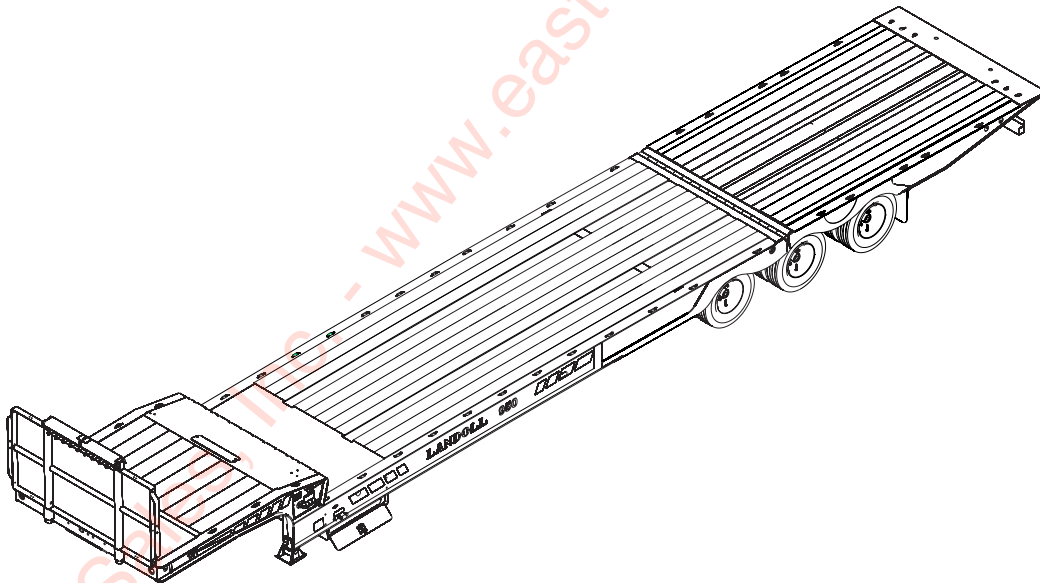




**MODEL 900B SERIES  
HYDRAULIC TAIL SEMITRAILER  
PARTS LIST**



**1900 NORTH STREET  
MARYSVILLE, KANSAS 66508  
(785) 562-5381**



# ILLUSTRATED PARTS LIST

1

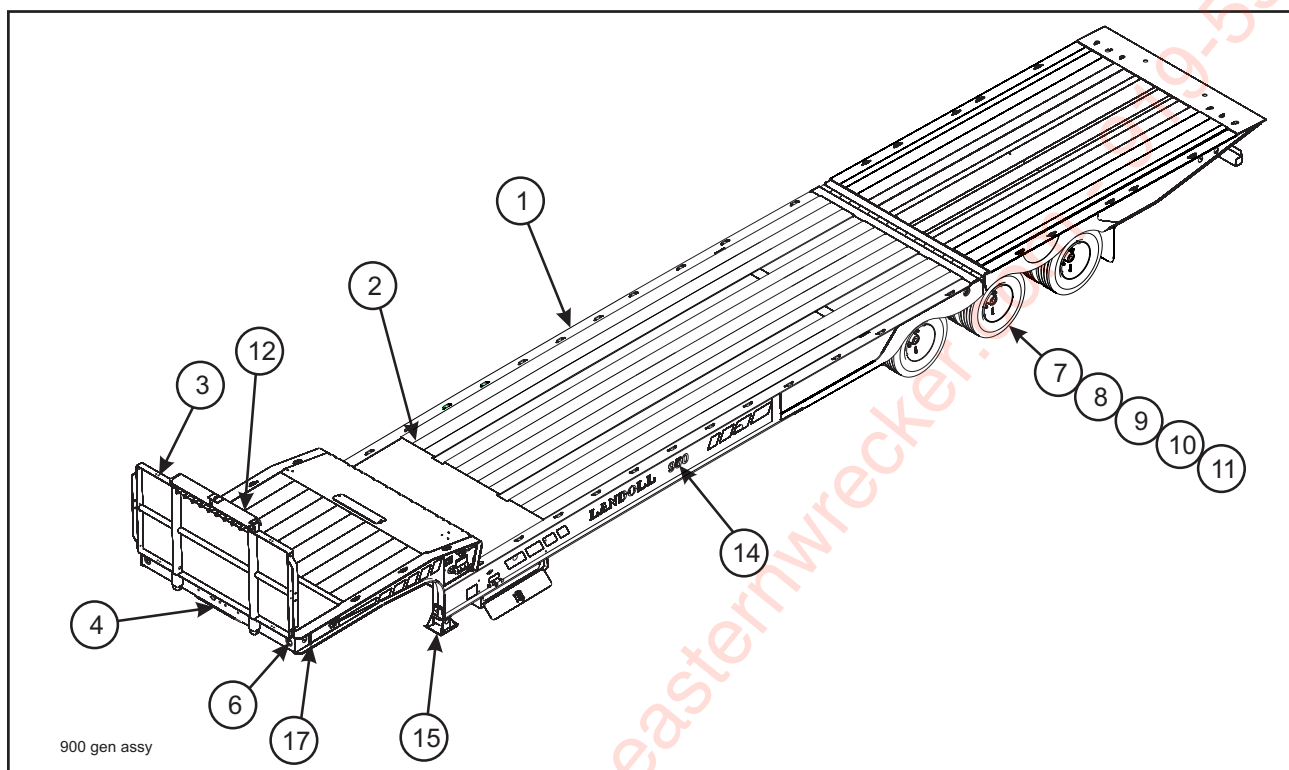
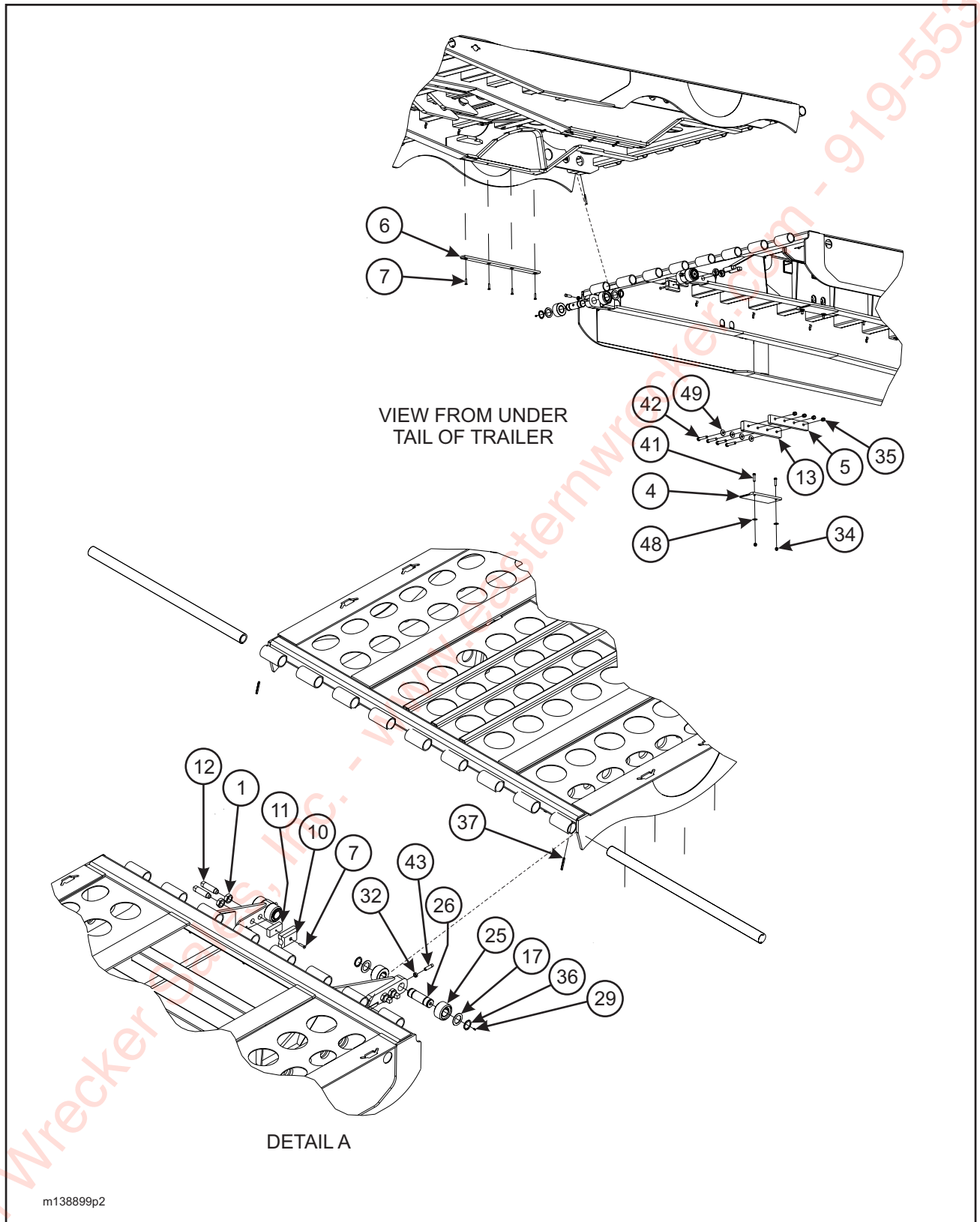


Figure 1-1 General Assembly

## GENERAL ASSEMBLY

| ITEM | PART/PAGE NO.            | DESCRIPTION                                      | QTY. |
|------|--------------------------|--------------------------------------------------|------|
| 1    | 1-2 - 1-5                | FRAME ASSEMBLIES                                 | 1    |
| 2    | 1-6 - 1-7                | AIR RAMP ASSEMBLY                                | 1    |
| 3    | 1-8 - 1-9                | BULKHEAD ASSEMBLY (OPTION)                       | 1    |
| 4    | 1-10 - 1-11; 1-14 - 1-19 | HYDRAULIC SYSTEM INSTALLATION                    | 1    |
| 5    | 1-12 - 1-13              | HYDRAULIC WET KIT (OPTION) (NOT SHOWN)           | 1    |
| 6    | 1-17 - 1-19              | ELECTRICAL SYSTEM                                | 1    |
| 7    | 1-20 - 1-29; 1-32 - 1-33 | UNDERCARRIAGE, AIR RIDE SUSPENSION               | 1    |
| 8    | 1-30 - 1-31              | AXLE AND BRAKE                                   | AR   |
| 9    | 1-34 - 1-37              | AIR BRAKE SYSTEM                                 | 1    |
| 10   | 1-38 - 1-41              | AIR SYSTEM ABS                                   | 1    |
| 11   | 1-42 - 1-43              | HUB AND DRUM                                     | 4    |
| 12   | 1-44 - 1-79              | WINCH ASSEMBLIES                                 | 1    |
| 13   | 1-80 - 1-85              | REMOTE CONTROL (OPTION)                          | 1    |
| 14   | 1-86 - 1-89              | DECAL INSTALLATION                               | 1    |
| 15   | 1-90 - 1-93              | LANDING GEAR                                     | 2    |
| 16   | 1-94 - 1-103             | AUXILIARY ENGINE HYDR POWER (OPTION) (NOT SHOWN) | 1    |
| 17   | 1-104 - 1-119            | MISCELLANEOUS OPTIONS                            | 1    |





**Figure 1-3 Frame Assembly  
(2 of 2)**

## FRAME ASSEMBLY

| ITEM | PART NO.        | DESCRIPTION                                       | QTY. |
|------|-----------------|---------------------------------------------------|------|
|      | ---             | FRAME ASSEMBLY                                    |      |
| 1    | 100823          | NUT, HEX JAM 1-1/4 X 7 GR2                        | 4    |
| 2    | 100939          | SCREW, RD HEAD SQ NECK 1/2-13 X 5-1/2             | 2    |
| 3    | 101299          | KEY CHAIN, LANDOLL                                | 1    |
| 4    | 107621          | GLIDE, U/C                                        | 2    |
| 5    | 107622          | BLOCK MOUNTING NYLATRON HOLDOWN                   | 2    |
| 6    | 107660          | GLIDE, U/C                                        | 2    |
| 7    | 108294          | SCREW, HEX SOCKET 3/8-16 X 1-3/4                  | 10   |
| 8    | 108545          | HINGE, DOOR FRAME                                 | 4    |
| 9    | 108601          | PIN, DOOR HINGE                                   | 4    |
| 10   | 108700          | BLOCK, CTRG NYLATRON (AFTER 1/1/00)               | 2    |
| 11   | 108701          | BLOCK, CTRG ADJUSTMENT                            | 2    |
| 12   | 109004          | ROD, THREADED ADJUSTMENT                          | 4    |
| 13   | 109138          | NYLATRON HOLD-DOWN BLOCK                          | 2    |
| 14   | 110435          | CONSOLE LIFT, GAS SPRING                          | 2    |
| 15   | 113214          | TUBE, ROUND 2-3/8 X 1-3/4 X 49-1/2                | 2    |
| 16   | 112636          | TAIL WLDMT WOOD 12' (USED ON SM. BRAKE TRLRS)     | 1    |
|      | 119984          | TAIL WLDMT WOOD 14' (USED ON SM. BRAKE TRLRS)     | 1    |
|      | 113427          | TAIL WLDMT WOOD 15' (USED ON SM. BRAKE TRLRS)     | 1    |
|      | 136259          | TAIL WLDMT WOOD 12' (USED ON LG BRAKE TRAILERS)   | 1    |
|      | 136291          | TAIL WLDMT WOOD 14' (USED ON LG BRAKE TRAILERS)   | 1    |
|      | 115623          | TAIL WLDMT WOOD 15' (USED ON LG BRAKE TRAILERS)   | 1    |
| 17   | 114562          | BUSHING, MACHINE HARD 3 X 2 X 10GA                | 4    |
| 18   | 116856          | HINGE, BASE TOOLBOX LID                           | 2    |
| 19   | 117544          | PLATE TOOLBOX BOTTOM                              | 2    |
| 20   | 117565          | COVER, HOSE LOWER                                 | 1    |
| 21   | 118853          | LATCH, COMPRESSION                                | 2    |
| 22   | 130511          | TUBE ASSEMBLY, MANUAL STORAGE                     | 1    |
| 23   | 131196          | PLATE, WINCH CABLE WEAR U/D                       | 1    |
| 24   | 135415          | RAMP ASSY 4FT (SEE PAGE 1-7)                      | 1    |
| 25   | 135613          | ROLLER, 4" ASSEMBLY CONNEX                        | 4    |
| 26   | 135614          | PIN, ROLLERS REAR                                 | 2    |
| 27   | 136205          | PLACARD CONTROL PANEL 900B                        | 1    |
| 28   | ---             | FRAME WLDMT                                       | 1    |
| 29   | 1-298-010001-1  | ZERK FITTING 1/4                                  | 2    |
| 30   | 1-510-010001    | NUT, FLANGE LOCK 3/8-16                           | 6    |
| 31   | 1-510-010004-03 | NUT, FLANGE HEAD SPIRALOCK 5/16-18                | 4    |
| 32   | 1-511-010001-07 | NUT, HEX JAM 5/8-11                               | 2    |
| 33   | 1-512-010005-03 | NUT, HEX LOCK 5/16-18 GRB                         | 17   |
| 34   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                          | 4    |
| 35   | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                          | 8    |
| 36   | 1-630-010021-02 | RING RETAINING 2 HD (AFTER 9/21/99)               | 4    |
| 37   | 1-647-010004259 | SPRING PIN SLOTTED 3/8 X 3                        | 2    |
| 38   | 1-654-010047-04 | SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5              | 12   |
| 39   | 1-654-010049-05 | SCREW, HEX HEAD CAP 5/16-18 X 1 GR5               | 8    |
| 40   | 1-654-010051-07 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5            | 6    |
| 41   | 1-654-010055-05 | SCREW, HEX HEAD CAP 1/2-13 X 2 GR5 (AFTER 1/1/00) | 4    |

## FRAME ASSEMBLY

| ITEM | PART NO.        | DESCRIPTION                                        | QTY. |
|------|-----------------|----------------------------------------------------|------|
| 42   | 1-654-010059-11 | SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5             | 8    |
| 43   | 1-654-010150-05 | SCREW, SET SQ HD CUP PT 5/8 X 2                    | 2    |
| 44   | 1-654-010158-1  | SCREW, RD HEAD SQ NECK 1/4-20 X 3/4                | 19   |
| 45   | 1-861-010032-06 | WASHER, FLAT 1/4N                                  | 12   |
| 46   | 1-861-010032-08 | WASHER, FLAT 5/16                                  | 8    |
| 47   | 1-861-010032-10 | WASHER, FLAT 3/8N                                  | 6    |
| 48   | 1-861-010032-15 | WASHER, FLAT 1/2                                   | 4    |
| 49   | 1-861-010032-19 | WASHER, FLAT 5/8                                   | 8    |
| 50   | 105-0094        | HOSE CLAMP 4-1/8                                   | 1    |
| 51   | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB (NOT SHOWN)               | 10   |
| 52   | 1-512-010007-05 | NUT, HEX 1/4-20 (NOT SHOWN)                        | 21   |
| 53   | 1-654-010027-7  | SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR8 (NOT SHOWN) | 8    |
| 54   | 1-654-010070-04 | SCREW RD HEAD SQ NECK 1/2-13 X 1-3/4 (NOT SHOWN)   | 4    |
| 55   | 1-654-010147-06 | SCREW, RD HEAD SELF TAP #6-20 X 3/4                | 8    |
| 56   | 1-861-010034-09 | WASHER, SPLIT LOCK 1/4                             | 21   |
| 57   | 105909          | SCREW, RD HEAD SQ NECK 5/16-18 X 3/4 (NOT SHOWN)   | 6    |
| 58   | 114814          | LATCH, FOLDING T LOCKABLE                          | 2    |
| 59   | 115877          | NUT, HEX HEAVY 1/4-20 GR5                          | 8    |
| 60   | 135181          | BUSHING NYLATRON TOOLBOX                           | 4    |
| 61   | 239-9076-009    | CLAMP, HOSE 1-1/4 (NOT SHOWN)                      | 1    |
| 62   | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5 (NOT SHOWN) | 3    |
| 63   | 1-861-010032-07 | WASHER, FLAT 1/4 (NOT SHOWN)                       | 8    |
| 64   | 1-861-010032-11 | WASHER, FLAT 3/8 (NOT SHOWN)                       | 6    |
| 65   | 125837          | ROLLER AND PIN KIT (INCL ITEMS 17, 25, 26, 29,36)  | 1    |
| 66   | 136352          | DOOR WELDMENT, TOOLBOX                             | 2    |

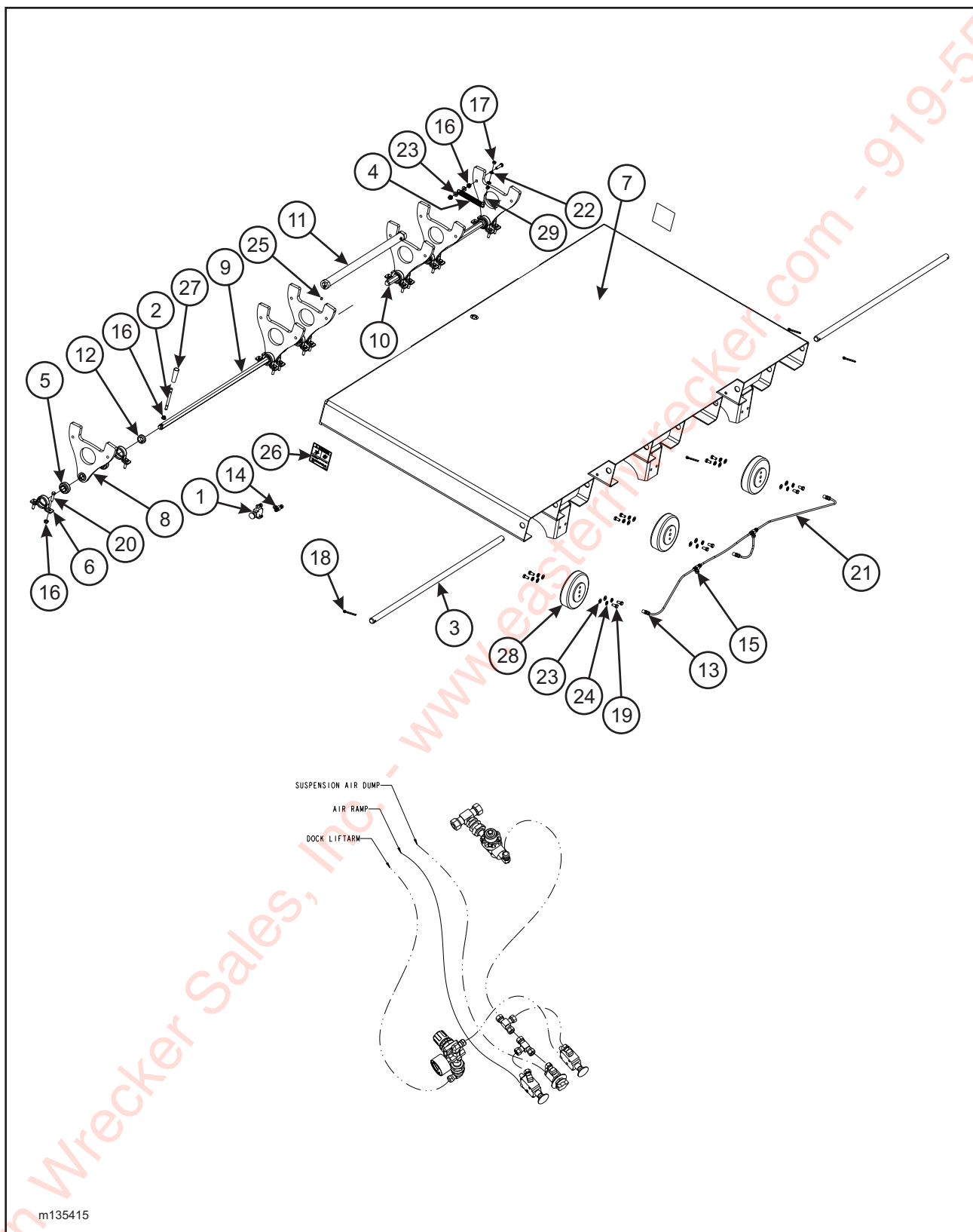


Figure 1-4 Air Ramp Assembly



## AIR RAMP ASSEMBLY

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 135415          | RAMP ASSEMBLY 4'                       |      |
| 1    | 107887          | VALVE AIR PUSH BUTTON                  | 1    |
| 2    | 108969          | ROD, THREADED RAMP HDL                 | 1    |
| 3    | 113532          | PIN, RAMP HINGE (2 PIECE PIN)          | 2    |
| 4    | 129985          | SPRING, EXTENSION                      | 1    |
| 5    | 135357          | BEARING, SELF ALIGN                    | 12   |
| 6    | 135398          | PILLOW BLOCK STAMPED                   | 12   |
| 7    | 135414          | RAMP WELDMENT 4'                       | 1    |
| 8    | 136225          | LATCH WELDMENT, RAMP                   | 6    |
| 9    | 137065          | SHAFT, LH HEX RAMP LATCH               | 1    |
| 10   | 137066          | SHAFT, RH HEX RAMP LATCH               | 1    |
| 11   | 137069          | COUPLER, SHAFT RAMP LATCH              | 1    |
| 12   | 71503635        | COLLAR, RETAINING 1"                   | 2    |
| 13   | 1-297-010007-05 | FITTING, AIR                           | 3    |
| 14   | 1-297-010008-05 | FITTING, AIR 90                        | 2    |
| 15   | 1-297-010010-01 | FITTING, AIR UNION TEE                 | 3    |
| 16   | 1-510-010001    | NUT, FLANGE LOCK 3/8-16                | 27   |
| 17   | 1-512-010007-06 | NUT, HEX 5/16-18                       | 2    |
| 18   | 1-557-010362-63 | PIN, COTTER 1/2 X 2                    | 4    |
| 19   | 1-654-010051-03 | SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5   | 12   |
| 20   | 1-654-010051-07 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5 | 25   |
| 21   | 1-833-010001    | TUBING NYLON 1/4                       | AR   |
| 22   | 1-861-010032-08 | WASHER, FLAT 5/16                      | 2    |
| 23   | 1-861-010032-10 | WASHER, FLAT 3/8N                      | 14   |
| 24   | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8                 | 12   |
| 25   | 107-0975        | SCREW, SET LOCK 5/16-18 X 3/8          | 2    |
| 26   | 2-573-010335    | DECAL, DANGER PINCHING                 | 2    |
| 27   | 3-360-010072    | HANDLE PLASTIC                         | 1    |
| 28   | 3-720-010042    | SPRING AIR 6-1/2                       | 3    |
| 29   | 5/16-18X1-1/2EB | EYE BOLT 5/16-18 X 1-1/2               | 1    |

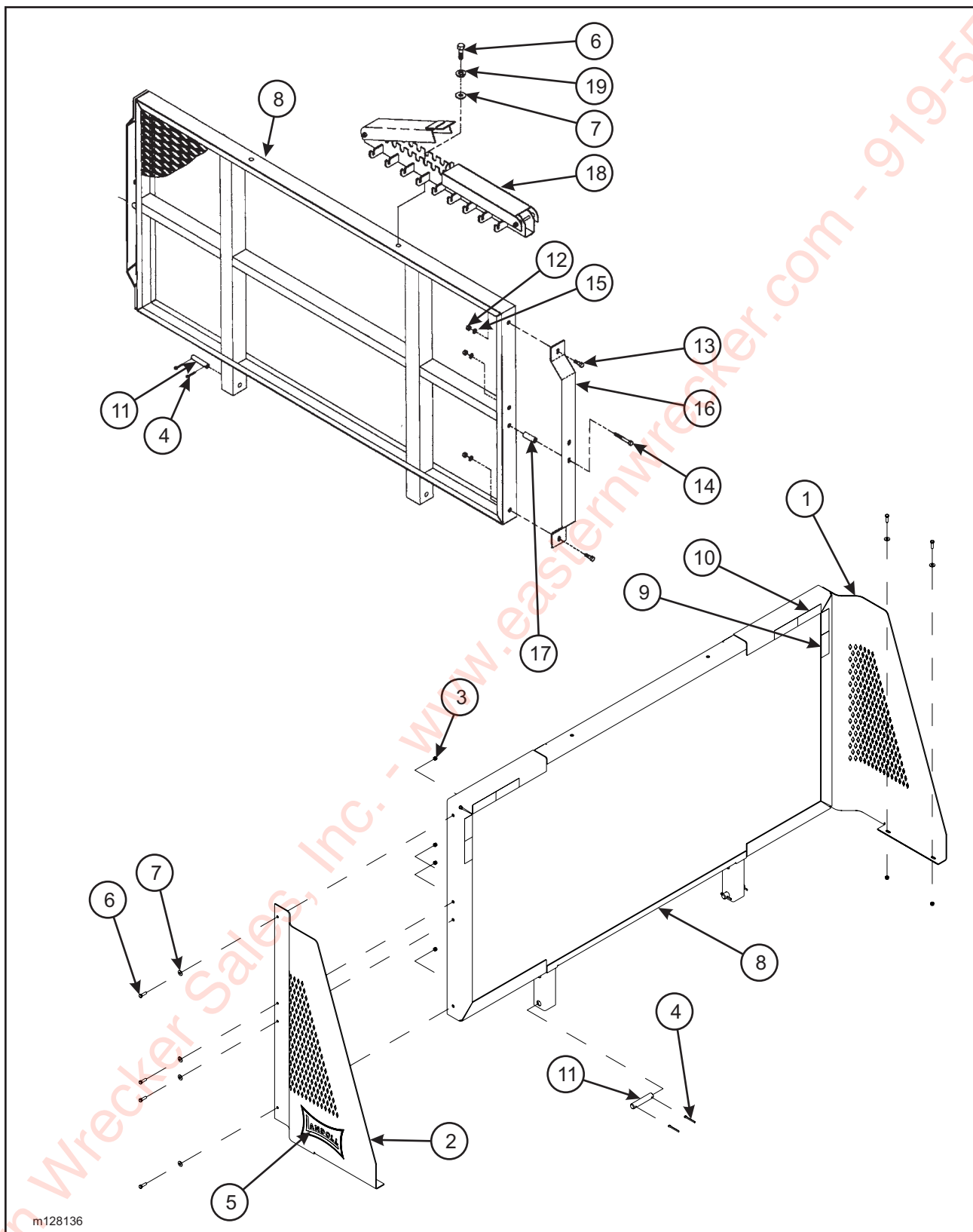


Figure 1-5 Bulkhead Assembly

## BULKHEAD ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                  | QTY. |
|------|-----------------|----------------------------------------------|------|
|      | 128136          | BULKHEAD INSTALLATION                        |      |
|      | 3-141-010121-2  | BULKHEAD INSTALLATION                        |      |
|      | B7-141-003      | BULKHEAD CHAIN RACK INSTALLATION             |      |
| 1    | 128138          | EXTENSION ALUMINUM RH                        | 1    |
|      | 128152          | EXTENSION STEEL RH                           | 1    |
| 2    | 128137          | EXTENSION ALUMINUM LH                        | 1    |
|      | 128153          | EXTENSION STEEL LH                           | 1    |
| 3    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                     | 12   |
| 4    | 1-557-010362-63 | PIN, COTTER 1/4 X 2                          | 4    |
| 5    | 1-573-010476    | DECAL, BOW TIE (BLACK)                       | 2    |
|      | 1-573-010480    | DECAL, BOWTIE (WHITE)                        | 2    |
| 6    | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5       | 12   |
| 7    | 1-861-010032-11 | WASHER, FLAT 3/8                             | 12   |
| 8    | 3-141-010155    | BULKHEAD WLDMT 48 X 96 (SQ. FRONT END FRAME) | 1    |
| 9    | 3-573-010378010 | DECAL, 2X10 REFLEXITE WHITE                  | 2    |
| 10   | 3-573-010378012 | DECAL, 2X12 REFLEXITE WHITE                  | 2    |
| 11   | 6-557-010163    | PIN, HITCH LEVELING LINK                     | 2    |
| 12   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                     | 6    |
| 13   | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5       | 4    |
| 14   | 1-654-010055-13 | SCREW, HEX HEAD CAP 1/2-13 X 4 GR5           | 2    |
| 15   | 1-861-010032-15 | WASHER, FLAT 1/2W                            | 6    |
| 16   | 3-054-010101    | BAR, SIDE 48" BULKHEAD 102" EXT              | 2    |
| 17   | 3-711-010025    | SPACER, 48" BULKHEAD 1" DIA                  | 2    |
| 18   | 3-141-010008    | CHAIN HANGER AND LOCK CHANNEL                | 1    |
| 19   | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8                       | 2    |

\* FIRST QUANTITY LISTED IS FOR P/N'S 3-141-010150-1 AND 3-141-010150-2. SECOND QUANTITY LISTED IS FOR P/N 110852.

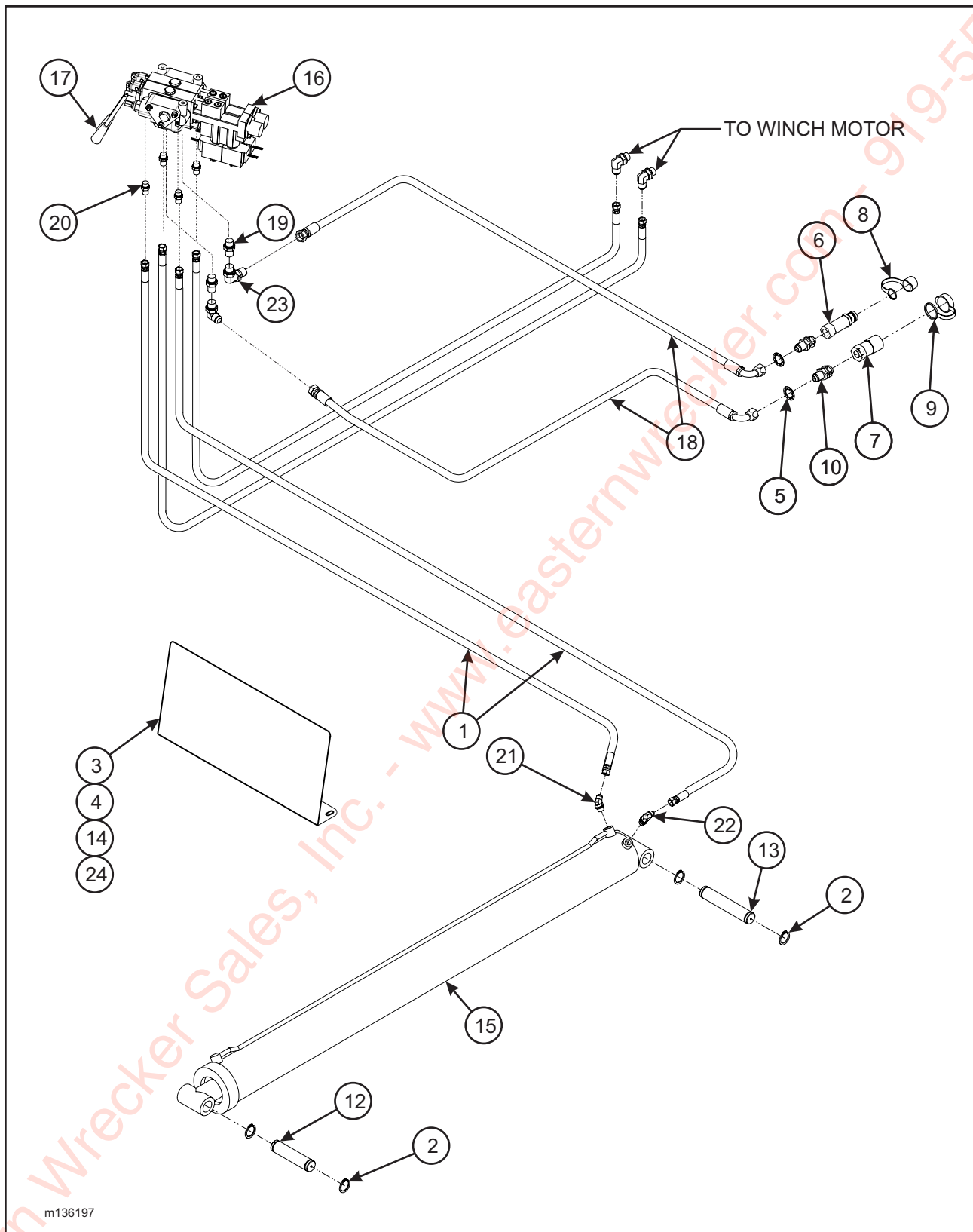


Figure 1-6 Hydraulic System Installation

# HYDRAULIC SYSTEM INSTALLATION

| ITEM | PART NO.        | DESCRIPTION                                                            | QTY. |
|------|-----------------|------------------------------------------------------------------------|------|
|      | 136197          | HYDR INST, 930-45/12, 48/15 WET KIT                                    |      |
|      | 136198          | HYDR INST. 930-45/12, 48/15 WET KIT                                    |      |
|      | 136199          | HYDR INST. 930-48/12, 50/14, 51/15 WET KIT                             |      |
|      | 136200          | HYDR INST. 930-48/12, 50/14, 51/15 WET KIT                             |      |
|      | 138123          | HYDR INST, 930-45/12, 48/15 W/ ENGINE                                  |      |
|      | 138124          | HYDR INST. 930-45/12, 48/15 W/ ENGINE                                  |      |
|      | 138125          | HYDR INST. 930-48/12, 50/14, 51/15 W/ ENGINE                           |      |
|      | 138126          | HYDR INST. 930-48/12, 50/14, 51/15 W/ ENGINE                           |      |
| 1    | 1-397-010301220 | HOSE ASSEMBLY 220 (136197,136198,138123, 138124)                       | 2    |
|      | 1-397-010301254 | HOSE ASSEMBLY 254 (136199,136200,138125, 138126)                       | 2    |
| 2    | 1-630-010021-01 | RING, SNAP                                                             | 4    |
| 3    | 1-861-010032-10 | WASHER, FLAT 3/8N                                                      | 3    |
| 4    | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8                                                 | 3    |
| 5    | 1-861-010059-21 | WASHER LOCK INTERNAL 1-1/8                                             | 2    |
| 6    | *105479         | COUPLER, FLAT FACE MALE                                                | 1    |
| 7    | *105480         | COUPLER, FLAT FACE FEMALE                                              | 1    |
| 8    | *105481         | COUPLER, DUST CAP MALE                                                 | 1    |
| 9    | *105482         | COUPLER, DUST CAP FEMALE                                               | 1    |
| 10   | *105483         | ADAPTER, BULKHEAD                                                      | 2    |
| 11   | 105822          | DECAL, HYD COUPLER (NOT SHOWN)                                         | 2    |
| 12   | 107657          | PIN, 1-1/2 X 6-3/8                                                     | 1    |
| 13   | 107658          | PIN, 1-1/2 X 8-1/4                                                     | 1    |
| 14   | 108336          | SCREW, SOCKET BUTTON 3/8-16 X 1                                        | 3    |
| 15   | 109126          | CYLINDER 5 X 60 W/ PLT CHK                                             | 1    |
|      | 114081          | PISTON ROD ASSEMBLY                                                    | 1    |
|      | 109145          | CHECK VALVE CARTRIDGE                                                  | 1    |
|      | 109144          | PACKING KIT                                                            | 1    |
| 16   | 114537          | VALVE, 2 STACK<br>(136197, 136199, 138123, 138124) (SEE PAGE 1-15)     | 1    |
|      | 114538          | VALVE, 2 STACK SOL<br>(136198, 136200, 138125, 138126) (SEE PAGE 1-15) | 1    |
| 17   | 135358          | HANDLE, VALVE FORMED                                                   | 2    |
| 18   | 136224          | HOSE ASSEMBLY, 3/4 X 136                                               | 2    |
| 19   | 202702-10-12S   | ADAPTER                                                                | 2    |
| 20   | 202702-8-8S     | ADAPTER                                                                | 4    |
| 21   | 2061-8-8S       | ADAPTER, 45                                                            | 1    |
| 22   | 2062-8-8S       | ADAPTER, 90                                                            | 1    |
| 23   | 2071-12-12S     | ADAPTER, 90                                                            | 2    |
| 24   | 136223          | SHIELD HYDRAULICS (138123, 138124, 138125, 138126)                     | 1    |

\* THESE ITEMS USED ONLY WITH MOTOR SPOOL AND WET KIT OPTIONS.

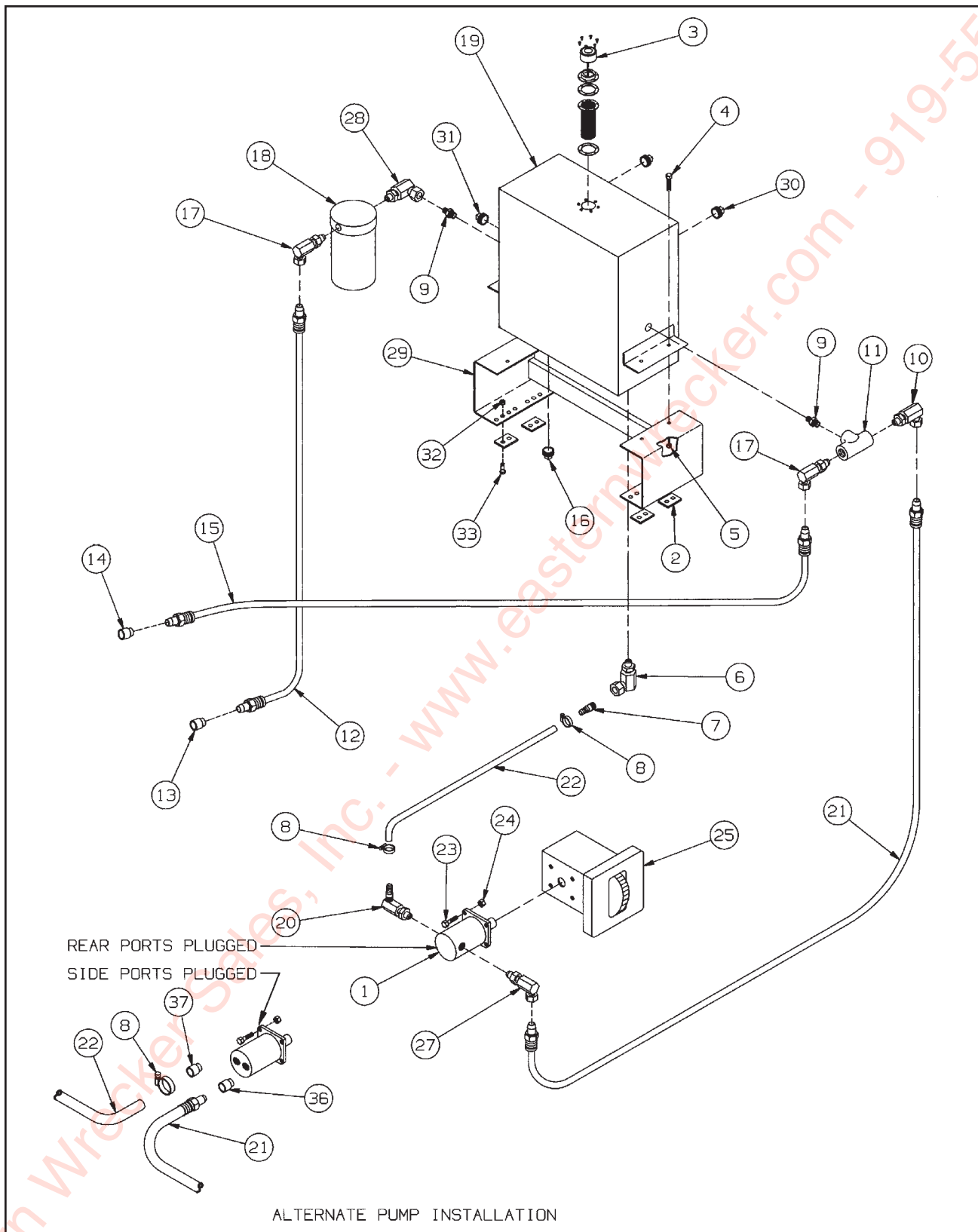


Figure 1-7 Wet Kit Assembly

## WET KIT ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 107498          | WET KIT 30 GAL                         |      |
| 1    | 3-591-010001    | PUMP, HYDRAULIC GEAR (SEE PAGE 1-16)   | 1    |
| 2    | 3-120-010461    | BRACKET, HYD TANK MOUNT SUPPORT        | 4    |
| 3    | 3-162-010001    | FILLER, BREATHER STRAINER              | 1    |
| 4    | 1-654-010051-06 | SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5  | 4    |
| 5    | 1-512-010005-05 | NUT HEX LOCK 3/8-16 GRB                | 4    |
| 6    | 1-1/4ST ELL     | PIPE ELBOW, 90°                        | 1    |
| 7    | 3-561-010001    | HOSE, BARB                             | 1    |
| 8    | 6828            | CLAMP, HOSE                            | 2    |
| 9    | C3069X12        | NIPPLE HEX                             | 2    |
| 10   | 2024-12-8S      | ADAPTER 90                             | 1    |
| 11   | 125130          | RD12D HYD. BY-PASS SRDD                | 1    |
| 12   | 106760          | HOSE ASSEMBLY, 3/4X164 (RETURN LINE)   | 1    |
| 13   | 105479          | COUPLER, FLAT FACE MALE                |      |
|      | 105481          | COUPLER, DUST CAP MALE                 | 1    |
| 14   | 105480          | COUPLER, FLAT FACE FEMALE              |      |
|      | 105482          | COUPLER, DUST CAP FEMALE               | 1    |
| 15   | 106759          | HOSE ASSEMBLY, 1/2X164 (PRESSURE LINE) | 1    |
| 16   | 1-560-010002-07 | PLUG, BLACK PIPE                       | 1    |
| 17   | 2024-12-12S     | ADAPTER 90                             | 1    |
| 18   | 1-295-010001    | FILTER, RETURN                         | 1    |
|      | 1-295-010002    | FILTER ELEMENT                         | 1    |
| 19   | 3-786-010043    | TANK, HYDRAULIC                        | 1    |
| 20   | 1-007-010006    | ELBOW 90                               | 1    |
| 21   | 1-397-010301100 | HOSE ASSEMBLY 1/2X100                  | 1    |
| 22   | 3-399-010001    | HOSE SUCTION 1-1/4X4                   | 8'   |
| 23   | 1-654-010055-03 | SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5    | 4    |
| 24   | 1-861-010034-13 | WASHER SPLIT LOCK 1/2                  | 4    |
| 25   | PTO*            | POWER TAKEOFF                          | 1    |
| 27   | 2062-16-8S      | ADAPTER 90                             | 1    |
| 28   | 2047-12-12S     | ELBOW 90 SWIVEL                        | 1    |
| 29   | 3-482-010503    | TANK MOUNT                             | 1    |
| 30   | 1-560-010002-05 | PIPE PLUG 3/4                          | 2    |
| 31   | 1-560-010002-04 | PIPE PLUG 1/2                          | 1    |
| 32   | 1-512-010005-09 | NUT HEX LOCK 1/2-13 GRB                | 4    |
| 33   | 1-654-010055-04 | SCREW HEX HEAD CAP 1/2-13X1-3/4 GR5    | 4    |
| 36   | 12-16 070120    | ADAPTER                                | 1    |
| 37   | 107513          | ADAPTER                                | 1    |

\* IF IT BECOMES NECESSARY TO ORDER A NEW POWER TAKEOFF, HAVE READY THE TRANSMISSION MODEL NUMBER AND SERIAL NUMBER BEFORE CALLING THE PARTS DISTRIBUTION CENTER.

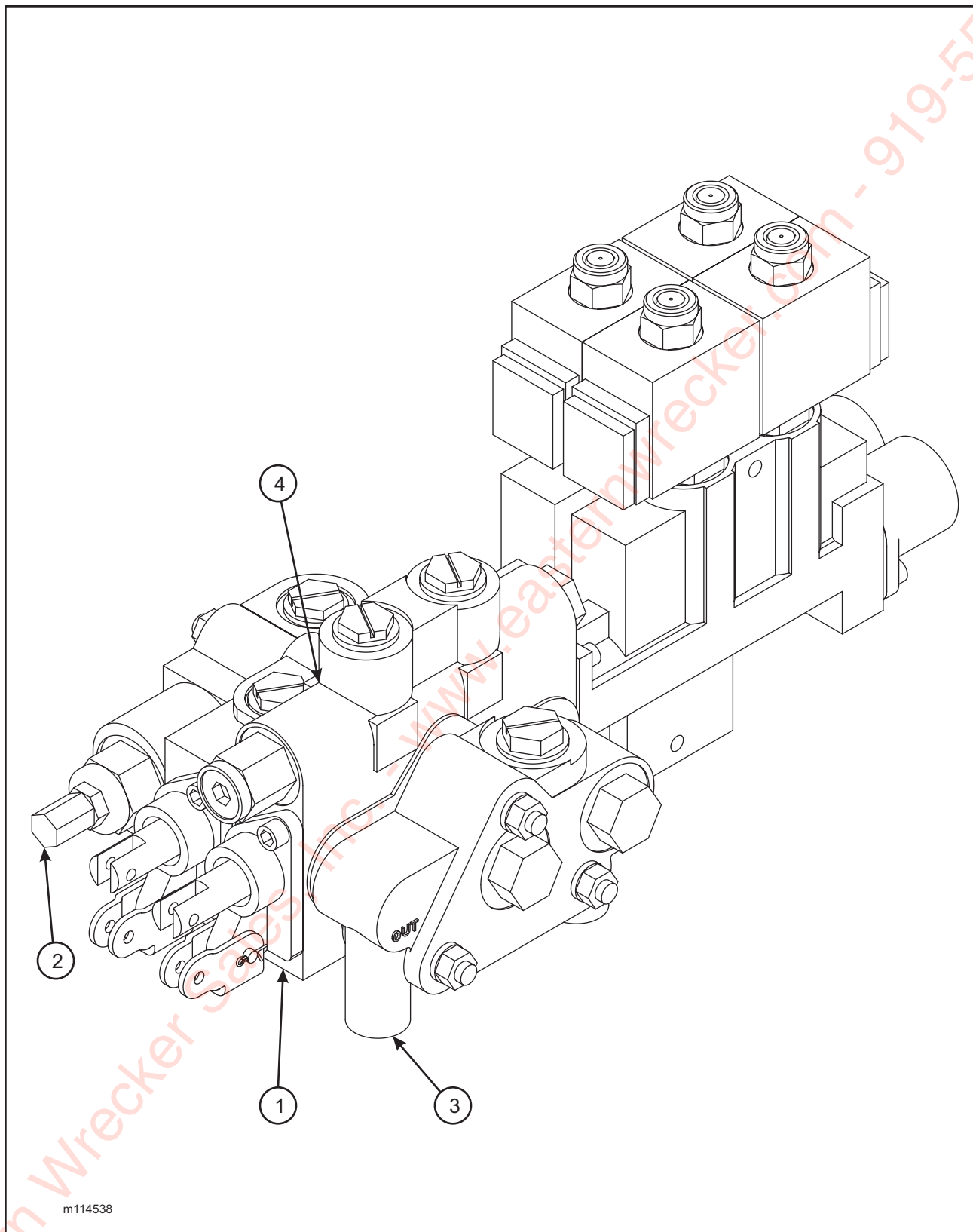


Figure 1-8 Three Spool Valve



## VALVE, THREE SPOOL

| ITEM | PART NO.  | DESCRIPTION                            | QTY. |
|------|-----------|----------------------------------------|------|
|      | 114537    | VALVE , 2 STACK                        |      |
|      | 114538    | VALVE, 2 STACK SOL                     |      |
| 1    | 660580005 | SOLENOID WORK SECTION KIT              | 1    |
| 2    | 660580002 | INLET SECTION KIT                      | 1    |
| 3    | 660580003 | OUTLET SECTION KIT                     | 1    |
| 4    | 660580004 | O-RING KIT (SEAL KIT BETWEEN SECTIONS) | 1    |

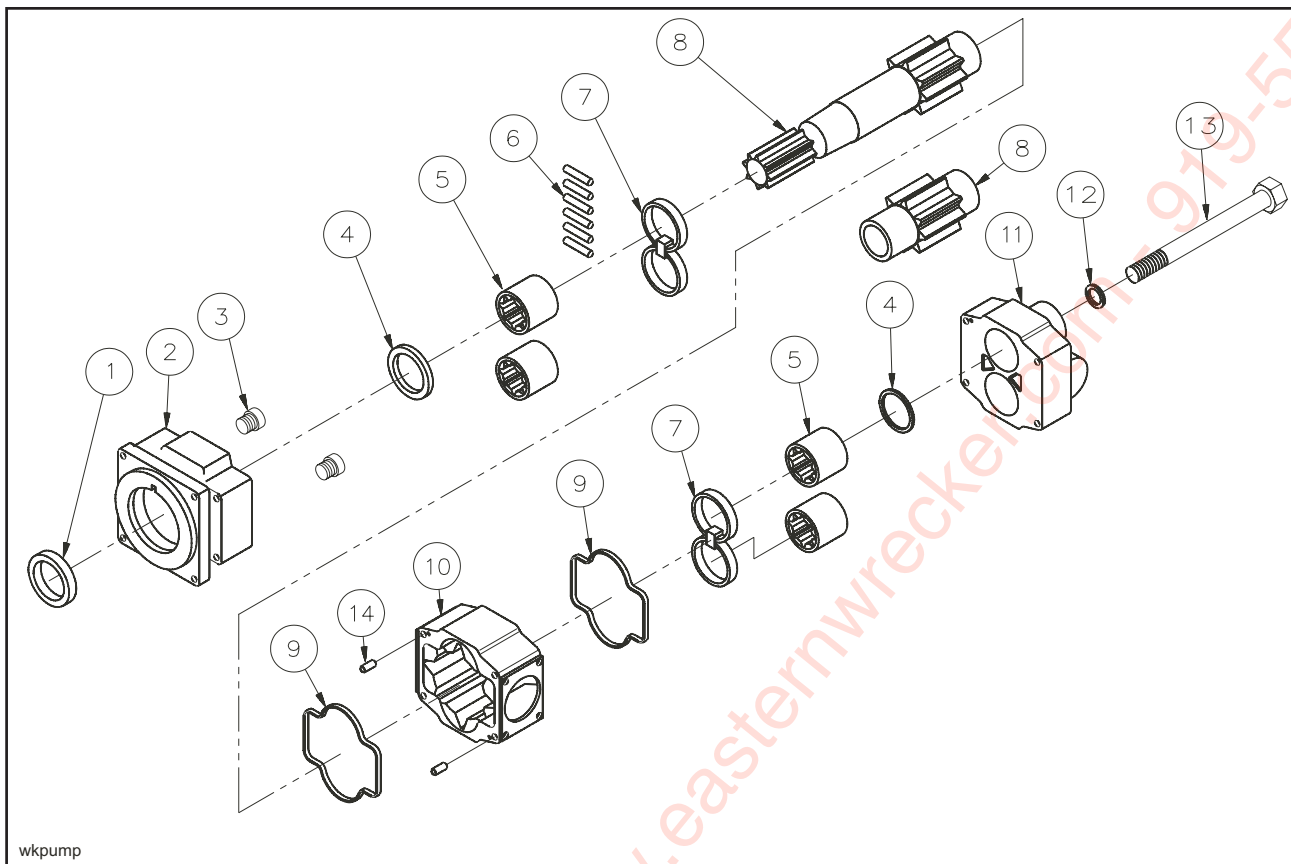


Figure 1-9 Pump, Wet Kit Hydraulic

## PUMP, WET KIT HYDRAULIC

| ITEM | PART NO.     | DESCRIPTION                                    | QTY. |
|------|--------------|------------------------------------------------|------|
|      | 3-591-010001 | HYDR. PUMP, GEAR (COMM. SHEARING 312-9610-394) | 1    |
| 1    | 391-2883-058 | LIP SEAL                                       | 1    |
| 2    | 312-5037-201 | HOUSING, SEC.                                  | 1    |
| 3    | 391-3681-001 | CHECK, ASSEMBLY                                | 2    |
| 4    | 391-2585-006 | RING SEAL                                      | 2    |
| 5    | 391-0381-068 | BRG. ROLLER                                    | 4    |
| 6    | 391-2882-086 | SEAL, POCKET STRIP                             | 12   |
| 7    | 391-2185-013 | THRPL                                          | 2    |
| 8    | 312-2917-130 | SET, GEAR SHAFT                                | 1    |
| 9    | 391-2884-050 | SEAL, SQ.-R                                    | 2    |
| 10   | 312-8217-327 | HOUSING, GEAR                                  | 1    |
| 11   | 312-3220-327 | HOUSING, PEC.                                  | 1    |
| 12   | 391-3784-028 | WASHER                                         | 4    |
| 13   | 391-1401-025 | CAPSCREW                                       | 4    |
| 14   | 391-2082-032 | DOWEL PIN                                      | 4    |
|      | 391-1802-119 | SEAL KIT                                       |      |

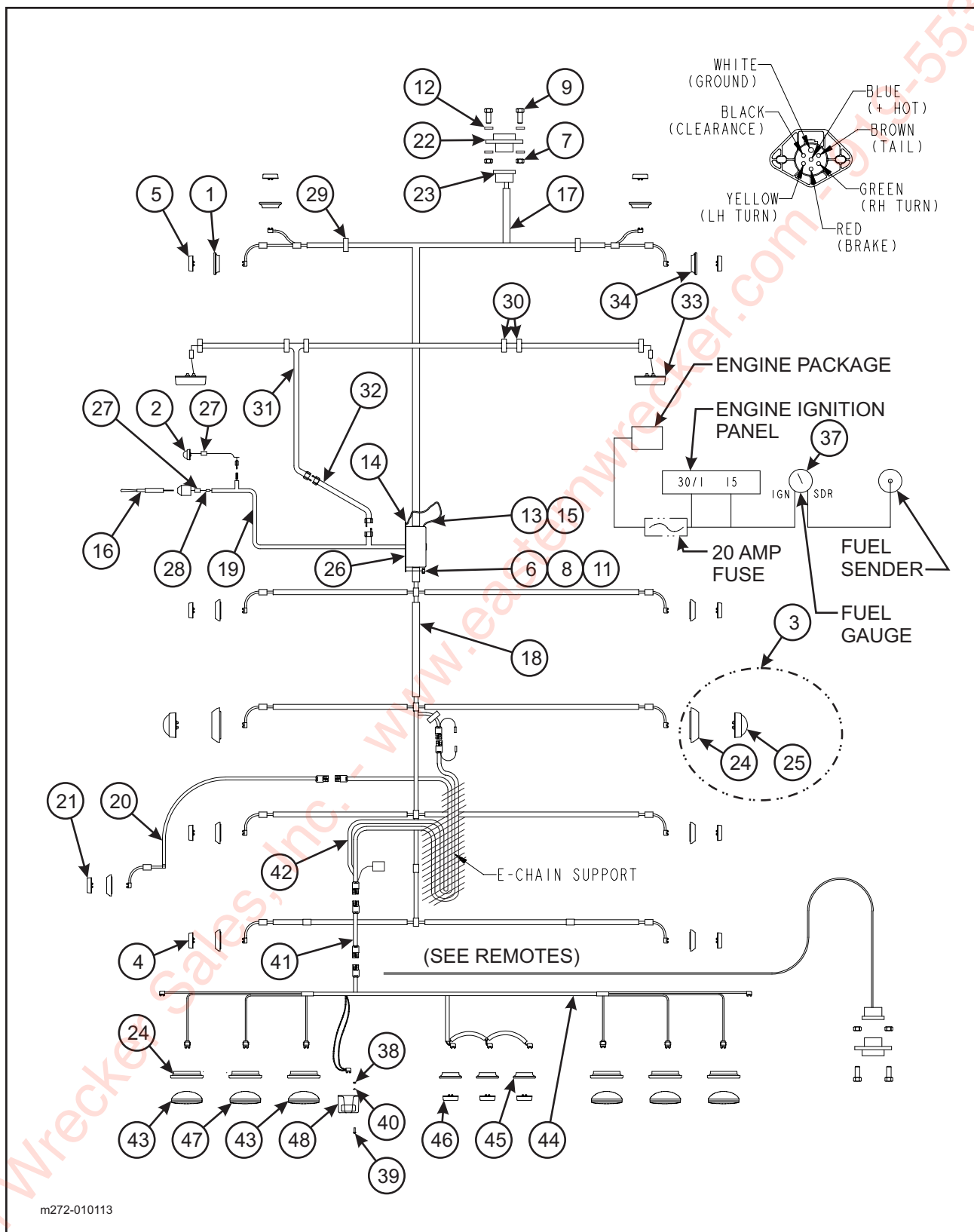


Figure 1-10 Electrical System Schematic

## SCHEMATIC, ELECTRICAL SYSTEM

| ITEM | PART NO.        | DESCRIPTION                                    | QTY. |
|------|-----------------|------------------------------------------------|------|
|      | 132022          | ELECTRICAL INSTALLATION STD                    |      |
|      | B3-272-076      | ELECT, WORK LIGHT INST. (OPTION)(INCL 13-20)   |      |
|      | 126884          | ELECTRICAL INSTALLATION LED 53'                |      |
| 1    | 10403           | GROMMET MOUNT                                  | 1    |
| 2    | 26331           | LIGHT, COURTESY                                | 1    |
| 3    | 111925          | LIGHT LED TURN MARKER YELLOW                   | 2    |
|      | 60015Y          | LIGHT, TURN & CLEARANCE W/GROM. (INCL.24 & 25) | 2    |
| 4    | 116139          | LIGHT, RED LED 2.5 CL/MKR                      | 2    |
|      | 10205R          | LAMP, RED REFLECTOR                            | 2    |
| 5    | 116140          | LIGHT, AMBER LED 2.5 CL/MKR                    | 8    |
|      | 10205Y          | LAMP, YELLOW REFLECTOR                         | 8    |
| 6    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB                       | 2    |
| 7    | 1-512-010005-03 | NUT, HEX LOCK 5/16-18 GRB                      | 2    |
| 8    | 1-654-010027-7  | SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR8         | 2    |
| 9    | 1-654-010049-06 | SCREW, HEX HEAD CAP 5/16-18 X 1-1/4 GR5        | 2    |
| 10   | 1-796-010003-02 | TIE WRAPS (NOT SHOWN)                          | 20   |
| 11   | 1-861-010032-06 | WASHER, FLAT 1/4N                              | 2    |
| 12   | 1-861-010032-09 | WASHER, FLAT 5/16W                             | 2    |
| 13   | 1-879-010010    | WIRE, 14 AWG X 12" WHITE                       | 1    |
| 14   | 239-3646-5      | TERMINAL RING 1/4 X 14AWG                      | 1    |
| 15   | 3-203-010001    | TERMINAL, RING 3/16 X 10 AWG                   | 1    |
| 16   | 3-272-010017    | TOGGLE SWITCH, SEALED                          | 1    |
| 17   | 3-368-010120    | HARNESS ASSEMBLY, FRT MAIN                     | 1    |
| 18   | 3-368-010177    | HARNESS ASSEMBLY, BED (45/12, 48/12, 48/15)    | 1    |
| 19   | 3-368-010253    | HARNESS ASSY, CONTROL PANEL 600                | 1    |
| 20   | 3-368-010294    | HARNESS, TAN ABS LAMP                          | 1    |
| 21   | 3-446-010046    | LIGHT ABS LAMP 2.5" DIA AMBER - ABS ONLY       | 1    |
| 22   | 59S-7           | RECEPTACLE, 7-PIN                              | 1    |
| 23   | 59W-2-3         | BOOT, RUBBER                                   | 2    |
| 24   | 60700           | GROMMET, LIGHT                                 | 8    |
| 25   | 111925          | LIGHT LED TURN MARKER YELLOW                   | 2    |
|      | 60215Y          | LAMP ONLY, TURN CLEARANCE                      | 2    |
| 26   | 750-029         | JUNCTION BOX, 7 STUD                           | 1    |
| 27   | STP147          | CONNECTOR, BULLET MALE                         | 2    |
| 28   | STP164          | CONNECTOR, BULLET FEMALE                       | 1    |
| 29   | 1-343-010007    | GROMMET                                        | 2    |
| 30   | 1-343-010010    | GROMMET, 9/16 HOLE                             | 6    |
| 31   | 3-368-010250    | HARNESS, BLKHD LIGHTS - 600/317                | 1    |
| 32   | 3-368-010252    | HARNESS ASSY, BLKHD LIGHT EXT. 600             | 1    |
| 33   | 64181           | LAMP, RECT QUARTZ HALOGEN                      | 2    |
| 34   | 10404           | GROMMET MOUNT                                  | 4    |
| 35   | 3-156-010008    | CABLE, 14-2 SO TWO CONDUCTOR (NOT SHOWN)       | AR   |
| 36   | 3-272-010021    | ELECT BUTT SPLICE 16-14 W/ SEAL (NOT SHOWN)    | AR   |
| 37   | 239-3646-4      | TERMINAL, 14 AWGX#10 RING                      | 1    |
| 38   | 1-512-010007-03 | NUT, HEX 10-24                                 | 2    |
| 39   | 1-656-010003051 | SCREW, RD HEAD MACH 10-24 X 3/4                | 2    |
| 40   | 1-861-010034-07 | WASHER, SPLIT LOCK #10                         | 2    |

## SCHEMATIC, ELECTRICAL SYSTEM

| ITEM | PART NO. | DESCRIPTION                    | QTY. |
|------|----------|--------------------------------|------|
| 41   | 102728   | HARNESS ASSEMBLY, U/C MAN      | 1    |
| 42   | 102836   | HARNESS ASSEMBLY, E-CHAIN, ABS | 1    |
| 43   | 113373   | LIGHT, RED LED OBLONG STT      | 4    |
| 44   | 114583   | HARNESS, MOD BUMPER LED        | 1    |
| 45   | 107598   | GROMMET, RECT C./MKRLAMP       | 3    |
| 46   | 113374   | LIGHT, RED LED CLEARANCE       | 3    |
| 47   | 121377   | LIGHT YELLOW LED S/T/T         | 2    |
| 48   | 15009    | LICENSE LAMP                   | 1    |

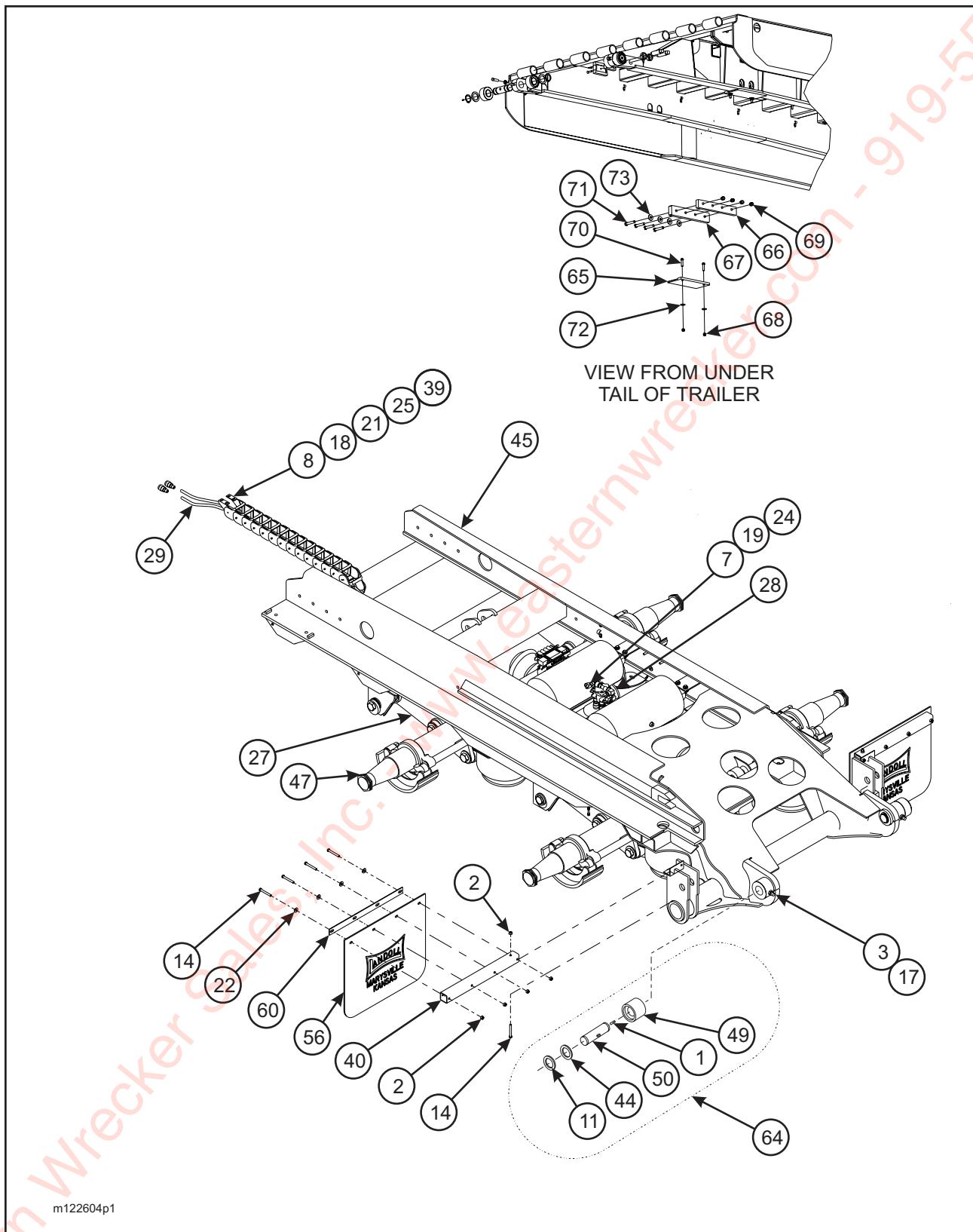


Figure 1-11 U/C Assembly, Air Ride Suspension, Tandem  
(1 of 2)

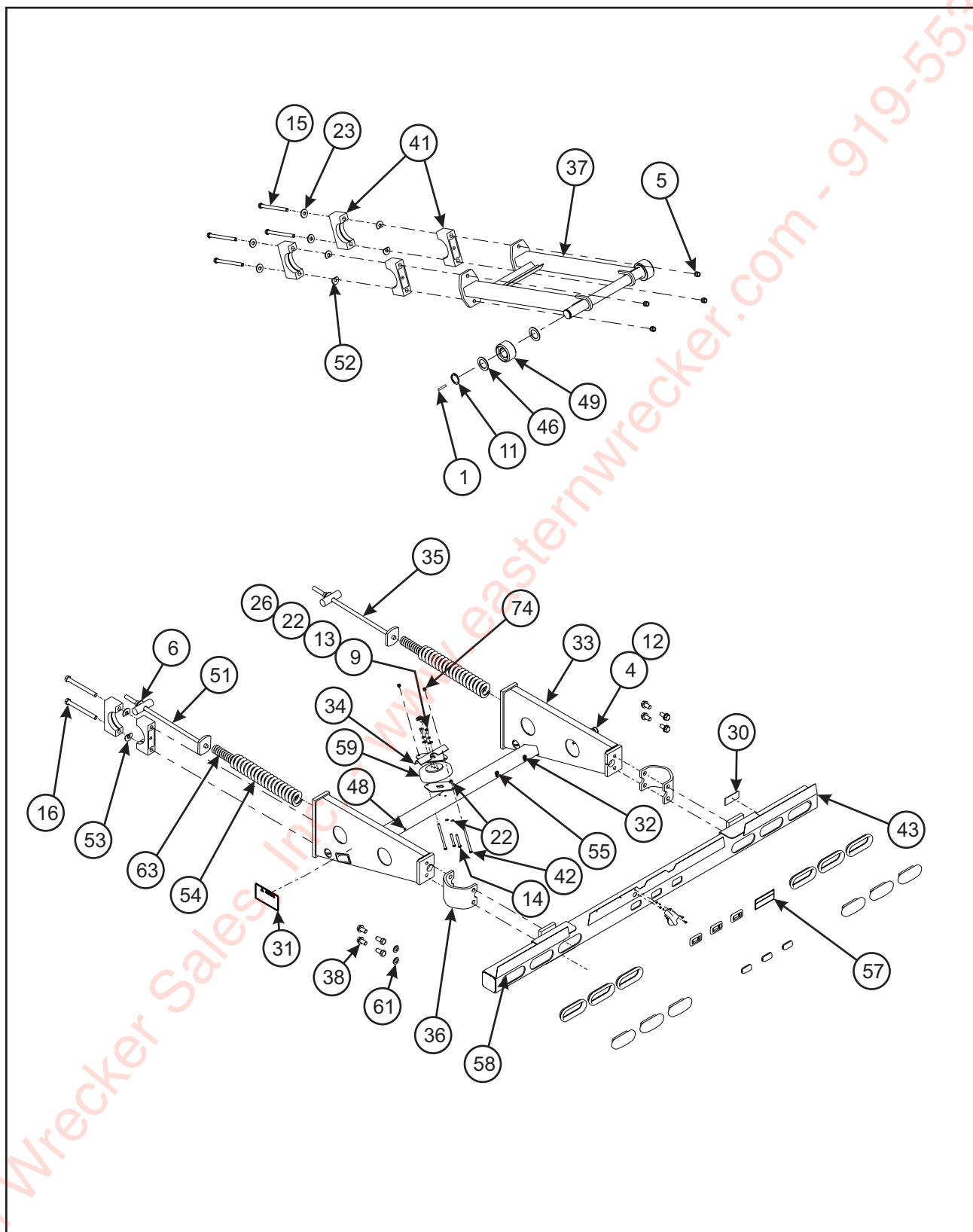


Figure 1-12 U/C Assembly, Air Ride Suspension, Tandem  
(2 of 2)

## UNDERCARRIAGE ASSY, AIR RIDE (TANDEM)

| ITEM | PART NO.        | DESCRIPTION                                | QTY. |
|------|-----------------|--------------------------------------------|------|
|      | 138182          | SUSP ASSY A/R 930-15 2512-77T              |      |
|      | 122679          | SUSP ASSY A/R 930-12 2512-77               |      |
|      | 122604          | SUSP ASSY A/R 930-15 2512-77               |      |
|      | 119999          | SUSP ASSY A/R 930-14 2512-77               |      |
|      | 137980          | SUSP ASSY A/R 930-15 2516-75               |      |
|      | 139623          | SUSP ASSY A/R 930-15 2516-75               |      |
| 1    | 1-298-010001-1  | ZERK FITTING 1/4                           | 4    |
| 2    | 1-510-010001    | NUT, FLANGE LOCK 3/8-16                    | 10   |
| 3    | 1-511-010001-07 | NUT, HEX JAM 5/8-11                        | 2    |
| 4    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20                       | 2    |
| 5    | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                   | 4    |
| 6    | 1-512-010005-15 | NUT, HEX LOCK 3/4-10 GRB                   | 2    |
| 7    | 1-512-010007-03 | NUT, HEX 10-24                             | 4    |
| 8    | 1-512-010007-05 | NUT, HEX 1/4-20 GRB                        | 6    |
| 9    | 1-512-010007-07 | NUT, HEX 3/8-16                            | 4    |
| 10   | 1-512-010007-12 | NUT, HEX 3/4-10 (NOT SHOWN)                | 2    |
| 11   | 1-630-010021-02 | RING RETAINING STD. DUTY                   | 6    |
| 12   | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5         | 2    |
| 13   | 1-654-010051-03 | SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5       | 2    |
| 14   | 1-654-010051-13 | SCREW, HEX HEAD CAP 3/8-16 X 3 GR5         | 10   |
| 15   | 1-654-010059-21 | SCREW, HEX HEAD CAP 5/8-11 X 8 GR5         | 4    |
| 16   | 1-654-010061-21 | SCREW, HEX HEAD CAP 3/4-10 X 8 GR5         | 4    |
| 17   | 1-654-010150-05 | SCREW, SET SQ HD CP PNT 5/8 X 2            | 2    |
| 18   | 1-654-010158-1  | SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2    | 6    |
| 19   | 1-656-010003051 | SCREW, RD HEAD MACH 10-24 X 3/4            | 4    |
| 20   | 1-796-010004-02 | TIE, STRAP, PLASTIC (NOT SHOWN)            | 19   |
| 21   | 1-861-010032-07 | WASHER, FLAT 1/4                           | 6    |
| 22   | 1-861-010032-11 | WASHER, FLAT 3/8W                          | 10   |
| 23   | 1-861-010032-19 | WASHER, FLAT 5/8W                          | 8    |
| 24   | 1-861-010034-07 | WASHER, SPLIT LOCK 10                      | 4    |
| 25   | 1-861-010034-09 | WASHER, SPLIT LOCK 1/4                     | 6    |
| 26   | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8                     | 2    |
| 27   | 102363          | SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-33) | 2    |
|      | 102364          | SUSPENSION ADJ RLU-228-5.5 (SEE PAGE 1-33) | 2    |
| 28   | 102732          | AIR CONTROL KIT NEWAY (SEE PAGE 1-28)      | 1    |
| 29   | 102836          | HARNESS ASSEMBLY, E-CHAIN ABS              | REF  |
| 30   | 103055          | PLACARD, ENERGY BUMPER CERT                | REF  |
| 31   | 103056          | DECAL, ENERGY BUMPER WARNING               | REF  |
| 32   | 107-0039        | SCREW SELF-TAP 10 X 3/4 TYPE B             | 4    |
| 33   | 107582          | BUMPER ARM WELDMENT 12' TAIL               | 1    |
|      | 110649          | BUMPER ARM WELDMENT 14' TAIL               | 1    |
|      | 109120          | BUMPER ARM WELDMENT 15' TAIL               | 1    |
| 34   | 107588          | PLATE WELDMENT LIFT GUIDE                  | 1    |
| 35   | 107591          | ROD WELDMENT SPRING TENSION BUMPER         | 2    |
| 36   | 107594          | MOUNT BUMPER ENERGY PAK                    | 2    |
| 37   | 107732          | DOCK LIFT ARM WELDMENT                     | 1    |
| 38   | 108705          | SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 G8      | 8    |



## UNDERCARRIAGE ASSY, AIR RIDE (TANDEM)

| ITEM | PART NO.        | DESCRIPTION                                                           | QTY. |
|------|-----------------|-----------------------------------------------------------------------|------|
| 39   | 108724          | SUPPORT E-CHAIN                                                       | 1    |
| 40   | 108746          | BRACKET, MUD FLAP                                                     | 2    |
| 41   | 109158          | BEARING CAST BUMPER PIVOT                                             | 8    |
| 42   | 109207          | SCREW, HEX HEAD CAP 3/8-16 X 6 FULL THREAD                            | 2    |
| 43   | 109524          | BUMPER WELDMENT L TAIL                                                | 1    |
| 44   | 109895          | WASHER                                                                | 2    |
| 45   | 113562          | UNDERCARRIAGE WELDMENT                                                | 1    |
| 46   | 114562          | BUSHING, MACHINE HARD 3 X 2 X 10 GA                                   | 4    |
| 47   | 115747          | AXLE WELDMENT A/R D2512-SPG 77                                        | 2    |
|      | 115749          | AXLE WELDMENT A/R D2516-SPG 75                                        | 2    |
|      | 136258          | AXLE WELDMENT A/R 2512-SPG 77<br>(FOR PARTS BREAKDOWN, SEE PAGE 1-30) | 2    |
| 48   | 125894          | CLAMP CABLE 5/8                                                       | 2    |
| 49   | 135613          | ROLLER 4" ASSEMBLY CONNEX                                             | 2    |
| 50   | 135615          | PIN ROLLERS REAR                                                      | 2    |
| 51   | 2-557-010045    | FRONT PIN SPRING CLAMP DRILL (PRIOR 01/01/2007)                       | 2    |
|      | 142457          | PIN, SPRING BUMPER (AFTER 01/01/2007)                                 | 2    |
| 52   | 2-684-010001    | SHIM ROCK SHAFT BEARING                                               | 4    |
| 53   | 2-684-010045    | SHIM ROCKSHAFT BEARING                                                | 4    |
| 54   | 2-720-010008    | SPRING                                                                | 2    |
| 55   | 239-9076-2      | CLAMP 5/16                                                            | 2    |
| 56   | 3-485-010001    | FLAP, MUD                                                             | 2    |
| 57   | 3-573-010031    | DECAL, TRAILER BUMPER                                                 | REF  |
| 58   | 3-573-010377    | DECAL, 2" REFLEXITE TAPE, RD/WHT                                      | REF  |
| 59   | 3-720-010042    | SPRING AIR 6-1/2                                                      | 1    |
| 60   | 3-762-010017    | CLAMP, MUD FLAP                                                       | 2    |
| 61   | 622-3511-008    | WASHER, FLAT 3/4                                                      | 10   |
| 62   | 1-654-010061-09 | SCREW, HEX HEAD CAP 3/4-10 X 3 GR5 (NOT SHOWN)                        | 8    |
| 63   | 8-720-010013    | SPRING, COMPRESSION REEL (14' & 15' TAIL TRAILERS)                    | 2    |
| 64   | 125838          | ROLLER & PIN KIT (INCL ITEM 1,11,44,49,50)                            | 1    |
| 65   | 107621          | GLIDE, U/C                                                            | REF  |
| 66   | 107622          | BLOCK MOUNTING NYLATRON HOLDOWN                                       | REF  |
| 67   | 109138          | NYLATRON HOLD-DOWN BLOCK                                              | REF  |
| 68   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                                              | REF  |
| 69   | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                                              | REF  |
| 70   | 1-654-010055-05 | SCREW, HEX HEAD CAP 1/2-13 X 2 GR5 (AFTER 1/1/00)                     | REF  |
| 71   | 1-654-010059-11 | SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5                                | REF  |
| 72   | 1-861-010032-15 | WASHER, FLAT 1/2                                                      | REF  |
| 73   | 1-861-010032-19 | WASHER, FLAT 5/8                                                      | REF  |
| 74   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16                                                  | 2    |

**REFER TO**  
**UNDERCARRIAGE - TANDEM AXLE**  
**DRAWINGS ON PAGES 1-20 AND 1-21**  
**FOR SIMILAR INFORMATION**

**Figure 1-13 U/C Assembly, Air Ride Suspension, Triple**  
**(1 of 2)**

**REFER TO**  
**UNDERCARRIAGE - TANDEM AXLE**  
**DRAWINGS ON PAGES 1-20 AND 1-21**  
**FOR SIMILAR INFORMATION**

**Figure 1-14 U/C Assembly, Air Ride Suspension, Triple**  
**(2 of 2)**

## UNDERCARRIAGE ASSY, AIR RIDE (TRIPLE)

| ITEM | PART NO.        | DESCRIPTION                                | QTY. |
|------|-----------------|--------------------------------------------|------|
|      | 123498          | SUSP ASSY A/R 950-15 2512-77               |      |
|      | 133440          | SUSP ASSY A/R 950-15 2216-75               |      |
|      | 138210          | SUSP ASSY A/R 950-15 2212-77               |      |
| 1    | 1-298-010001-1  | ZERK FITTING 1/4                           | 1    |
| 2    | 1-510-010001    | NUT, FLANGE LOCK 3/8-16                    | 10   |
| 3    | 1-511-010001-07 | NUT, HEX JAM 5/8-11                        | 2    |
| 4    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20                       | 2    |
| 5    | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                   | 4    |
| 6    | 1-512-010005-15 | NUT, HEX LOCK 3/4-10 GRB                   | 2    |
| 7    | 1-512-010007-03 | NUT, HEX 10-24                             | 6    |
| 8    | 1-512-010007-05 | NUT, HEX 1/4-20 GRB                        | 6    |
| 9    | 1-630-010021-02 | RING RETAINING STD. DUTY                   | 6    |
| 10   | 1-654-010051-03 | SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5       | 2    |
| 11   | 1-654-010051-11 | SCREW, HEX HEAD CAP 3/8-16 X 2-1/2 GR5     | 2    |
| 12   | 1-654-010051-13 | SCREW, HEX HEAD CAP 3/8-16 X 3 GR5         | 10   |
| 13   | 1-654-010059-21 | SCREW, HEX HEAD CAP 5/8-11 X 8 GR5         | 4    |
| 14   | 1-654-010061-21 | SCREW, HEX HEAD CAP 3/4-10 X 8 GR5         | 4    |
| 15   | 1-654-010150-05 | SCREW, SET SQ HD CP PNT 5/8 X 2            | 2    |
| 16   | 1-654-010158-1  | SCREW, RD HEAD SQ NECK 1/4-20 X 3/4 GR2    | 6    |
| 17   | 1-656-010003051 | SCREW, RD HEAD MACH 10-24 X 3/4            | 4    |
| 18   | 1-796-010004-02 | TIE STRAP, PLASTIC                         | AR   |
| 19   | 1-861-010032-07 | WASHER, FLAT 1/4                           | 6    |
| 20   | 1-861-010032-11 | WASHER, FLAT 3/8W                          | 10   |
| 21   | 1-861-010032-19 | WASHER, FLAT 5/8W                          | 8    |
| 22   | 1-861-010032-21 | WASHER, FLAT 3/4W                          | 2    |
| 23   | 1-861-010034-07 | WASHER, SPLIT LOCK 10                      | 6    |
| 24   | 1-861-010034-09 | WASHER, SPLIT LOCK 1/4                     | 6    |
| 25   | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8                     | 2    |
| 26   | 102363          | SUSPENSION ADJ RLU-228-3.5 (SEE PAGE 1-33) | 2    |
|      | 102364          | SUSPENSION ADJ RLU-228-5.5 (SEE PAGE 1-33) | 2    |
| 27   | 102732          | AIR CONTROL KIT NEWAY (SEE PAGE 1-28)      | 1    |
| 28   | 102836          | CABLE HARNESS W/ ABS                       | 1    |
| 29   | 103055          | PLACARD, ENERGY BUMPER CERT                | 1    |
| 30   | 103056          | DECAL, ENERGY BUMPER WARNING               | 1    |
| 31   | 107-0039        | SCREW SELF-TAP 10 X 3/4 TYPE B             | 4    |
| 32   | 107470          | NUT, FLANGE HEAD SPIRALOCK 3/8-16          | 2    |
| 33   | 107582          | BUMPER ARM WELDMENT 12' TAIL               | 1    |
|      | 110649          | BUMPER ARM WELDMENT 14' TAIL               | 1    |
|      | 109120          | BUMPER ARM WELDMENT 15' TAIL               | 1    |
| 34   | 107588          | PLATE WELDMENT LIFT GUIDE                  | 1    |
| 35   | 107591          | ROD WELDMENT SPRING TENSION BUMPER         | 2    |
| 36   | 107594          | MOUNT BUMPER ENERGY PAK                    | 2    |
| 37   | 107732          | DOCK LIFT ARM WELDMENT                     | 1    |
| 38   | 108705          | SCREW, HEX HEAD CAP 3/4-10 X 1-1/2 G8      | 8    |
| 39   | 108724          | SUPPORT E-CHAIN                            | 1    |
| 40   | 108746          | BRACKET, MUD FLAP                          | 2    |
| 41   | 109158          | BEARING CAST BUMPER PIVOT                  | 8    |

## UNDERCARRIAGE ASSY, AIR RIDE (TRIPLE)

| ITEM | PART NO.        | DESCRIPTION                                                            | QTY. |
|------|-----------------|------------------------------------------------------------------------|------|
| 42   | 109177          | CONTROL KIT AIR SUSP LWR (SEE PAGE 1-29)                               | 1    |
| 43   | 109207          | SCREW, HEX HEAD CAP 3/8-16 X 6 FULL THR                                | 2    |
| 44   | 109524          | BUMPER WELDMENT L TAIL                                                 | 1    |
| 45   | 109895          | WASHER                                                                 | 2    |
| 46   | 114562          | BUSHING, MACHINE HARD 3 X 2 X 10 GA                                    | 4    |
| 47   | 115747          | AXLE WELDMENT A/R D2212-SPG 77                                         | 2    |
|      | 115748          | AXLE WELDMENT A/R D2212-SER 77                                         | 1    |
|      | 115749          | AXLE WELDMENT A/R D2216-SPR 75                                         | 2    |
|      | 115750          | AXLE WELDMENT A/R D2216-SER 75<br>(FOR PARTS BREAKDOWN, SEE PAGE 1-30) | 1    |
| 48   | 117844          | UNDERCARRIAGE WELDMENT 950                                             | 1    |
| 49   | 125894          | CLAMP CABLE 5/8                                                        | 2    |
| 50   | 135613          | ROLLER 4" ASSEMBLY CONNEX                                              | 4    |
| 51   | 2-557-010045    | FRONT PIN SPRING CLAMP DRILL (PRIOR 01/01/2007)                        | 2    |
|      | 142457          | PIN, SPRING BUMPER (AFTER 01/01/2007)                                  | 2    |
| 52   | 2-684-010001    | SHIM ROCK SHAFT BEARING                                                | 4    |
| 53   | 2-684-010045    | SHIM ROCKSHAFT BEARING                                                 | 4    |
| 54   | 2-720-010008    | SPRING                                                                 | 2    |
| 55   | 239-9076-2      | CLAMP 5/16                                                             | 2    |
| 56   | 3-485-010001    | FLAP, MUD                                                              | 2    |
| 57   | 3-573-010031    | DECAL, TRAILER BUMPER                                                  | 1    |
| 58   | 3-573-010377    | DECAL, 2" REFLEXITE TAPE, RD/WHT                                       | AR   |
| 59   | 3-720-010042    | SPRING AIR 6-1/2                                                       | 1    |
| 60   | 3-762-010017    | CLAMP, MUD FLAP                                                        | 2    |
| 61   | 622-3511-008    | WASHER, FLAT 3/4                                                       | 10   |
| 62   | 8-720-010013    | SPRING, COMPRESSION REEL (14' & 15' TAIL TRAILERS)                     | 2    |
| 63   | 125838          | ROLLER AND PIN KIT (INCL ITEMS                                         |      |
| 65   | 107621          | GLIDE, U/C                                                             | REF  |
| 66   | 107622          | BLOCK MOUNTING NYLATRON HOLDOWN                                        | REF  |
| 67   | 109138          | NYLATRON HOLD-DOWN BLOCK                                               | REF  |
| 68   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                                               | REF  |
| 69   | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                                               | REF  |
| 70   | 1-654-010055-05 | SCREW, HEX HEAD CAP 1/2-13 X 2 GR5 (AFTER 1/1/00)                      | REF  |
| 71   | 1-654-010059-11 | SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5                                 | REF  |
| 72   | 1-861-010032-15 | WASHER, FLAT 1/2                                                       | REF  |
| 73   | 1-861-010032-19 | WASHER, FLAT 5/8                                                       | REF  |

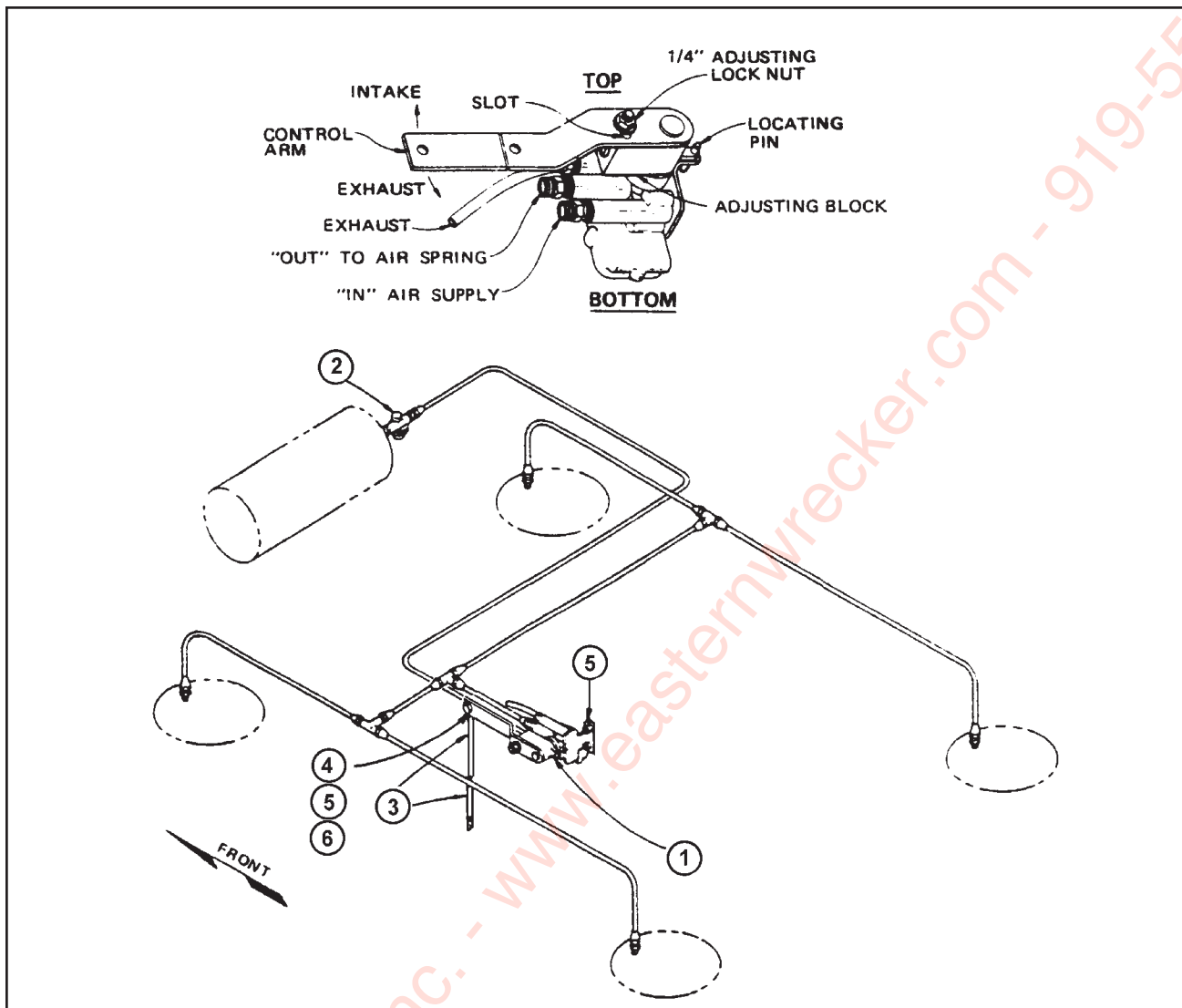


Figure 1-15 Air Control Kit

## AIR CONTROL KIT

| ITEM | PART NO.        | DESCRIPTION                                      | QTY. |
|------|-----------------|--------------------------------------------------|------|
|      | 102732          | AIR CONTROL KIT NEWAY                            |      |
| 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 ASSY)                   | 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    |
| 7    | 941 00 466      | HEIGHT CONTROL VALVE INSTRUCTIONS<br>(NOT SHOWN) | 1    |

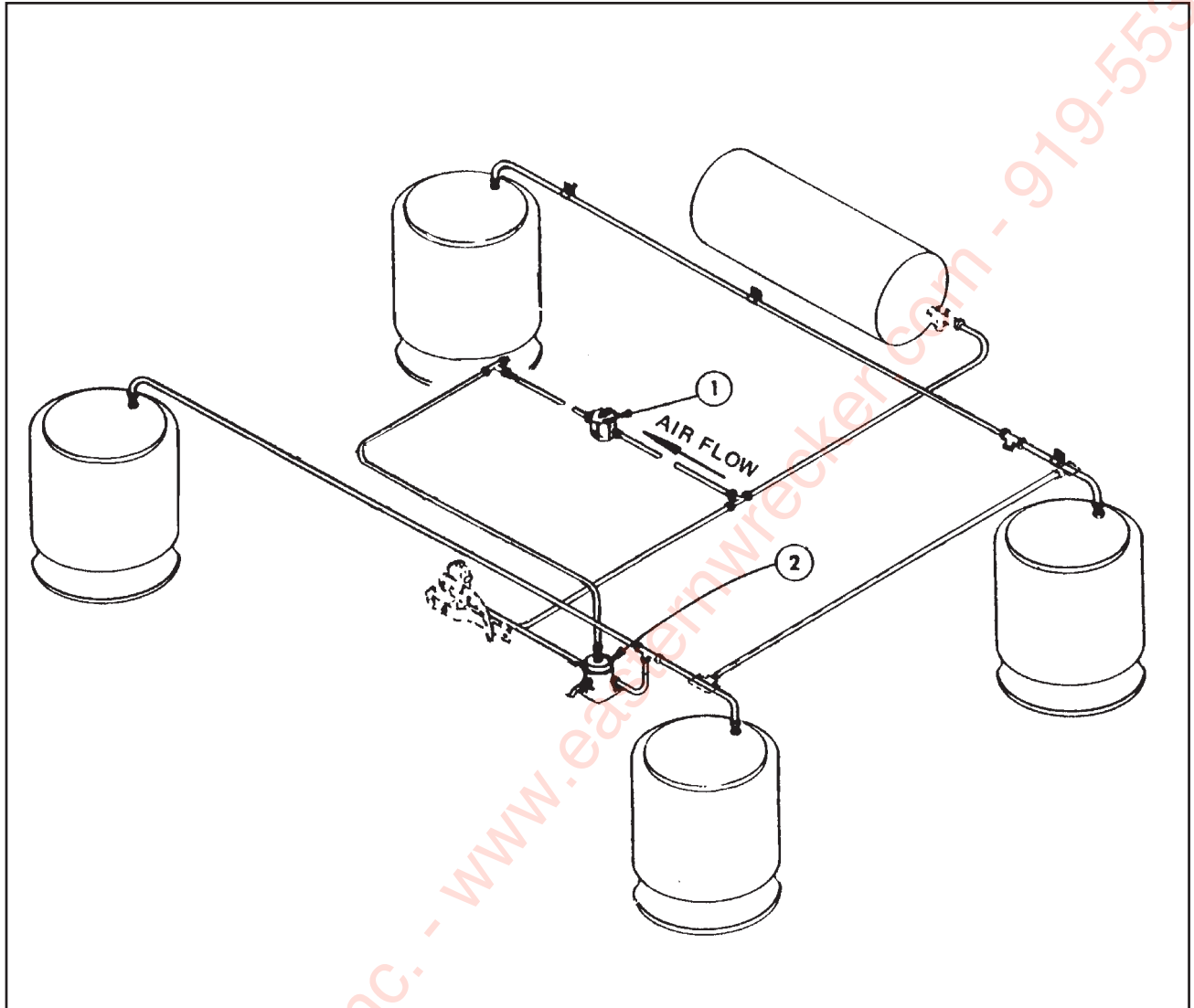


Figure 1-16 Air Control Kit

## AIR CONTROL KIT

| ITEM | PART NO.   | DESCRIPTION                 | QTY. |
|------|------------|-----------------------------|------|
|      | 109177     | CONTROL KIT, AIR SUSP LOWER |      |
| 1    | 900 54 088 | VALVE MANUALLY OPERATED     |      |
| 2    | 900 54 079 | PILOT VALVE                 |      |
| 3    | 900 44 207 | DECAL (NOT SHOWN)           |      |

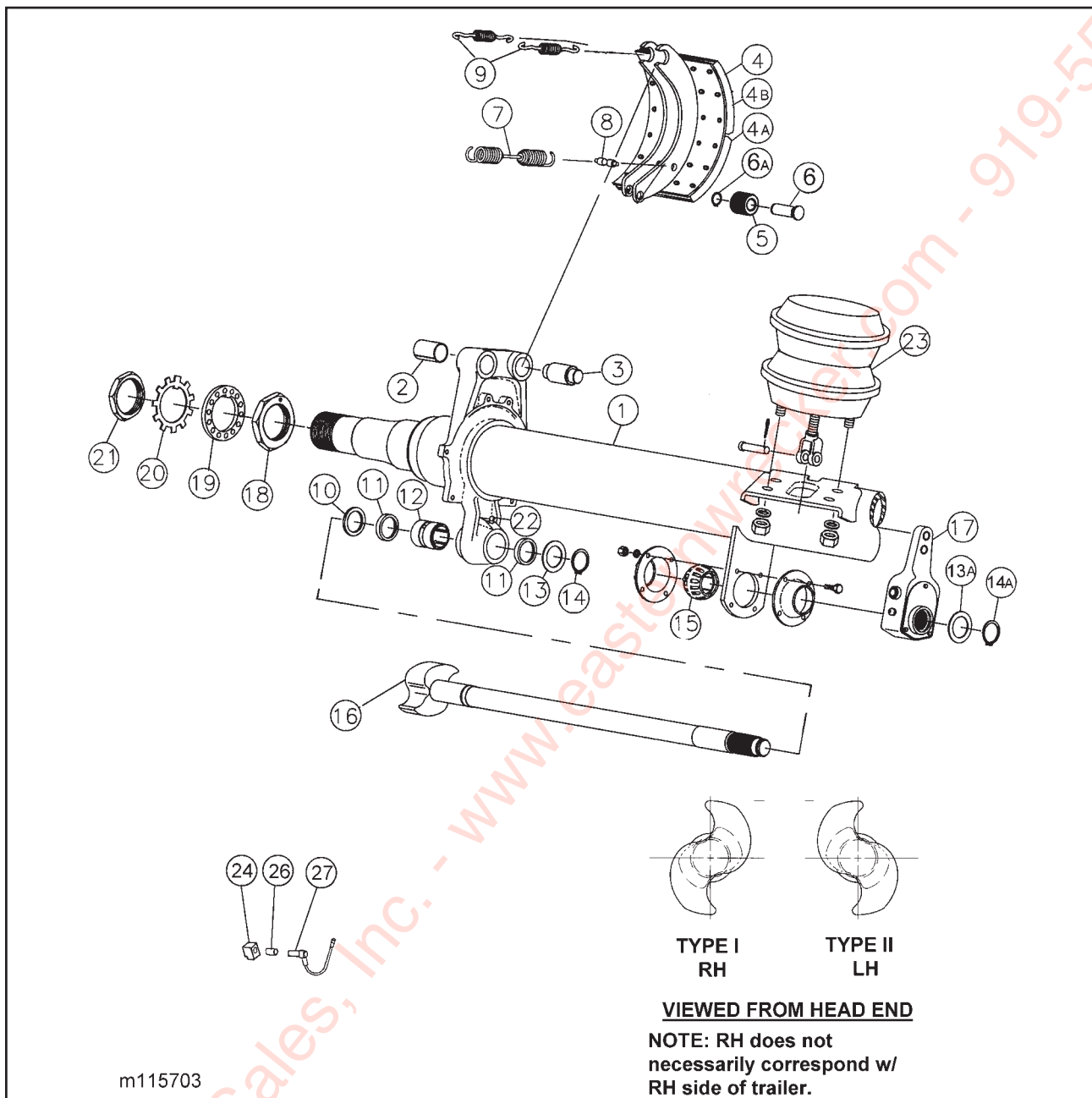


Figure 1-17 Axle and Brake Assembly

## AXLE AND BRAKE ITEMS (DEXTER)

| ITEM | PART NO. | DESCRIPTION                       | QTY |
|------|----------|-----------------------------------|-----|
|      | 115704   | AXLE 12.25X7.5 SPG BRK 25K 77 TRK |     |
|      | 115709   | AXLE 12.25X7.5 SER BRK 25K 77 TRK |     |
|      | 115715   | AXLE 16.5X7 SPG BRK 25K 75 TRK    |     |
|      | 115720   | AXLE 16.5X7 SER BRK 25K 75 TRK    |     |
|      | 136203   | AXLE 12.25X7.5 SPG BRK 25K 77 TRK |     |
|      | 138198   | AXLE 12.25X7.5SER BRK 25K TIS     |     |
|      | 138955   | AXLE 16.5X7 SPG BRK 25K TIS       |     |
| 1*   | D-2H12   | BEAM OPTIONS (12.25 X 7.5 BRAKE)  | 1   |
|      | D-2H16   | BEAM OPTIONS (16.5 X 7 BRAKE)     |     |



## AXLE AND BRAKE ITEMS (DEXTER)

| ITEM  | PART NO.      | DESCRIPTION                                                                     | QTY |
|-------|---------------|---------------------------------------------------------------------------------|-----|
|       | **K71-460-00  | BRAKE SHOE HDWR KIT(12.25X7.5 BRAKE)                                            |     |
|       | **K71-136-00  | BRAKE SHOE HDWR KIT(16.5 X 7 BRAKE)<br>(KITS INCL. ITEMS 2, 3, 5, 6, 7, 8, & 9) |     |
| 2**   | 014-068-00    | BUSHING, SPIDER ANCHOR PIN                                                      | 4   |
| 3**   | 056-017-00    | PIN, ANCHOR                                                                     | 4   |
| 4     | 040-320-01    | BRAKE SHOE AND LINING (12.25 X 7.5 BRAKE)                                       | 4   |
|       | K71-133-00    | BRAKE BLOCK KIT -LINING & RIVETS(12.25 X 7.5 BRAKE)                             | 4   |
|       | 040-180-00    | BRAKE SHOE AND LINING (16.5 X 7 BRAKE)                                          | 4   |
|       | K71-138-00    | BRAKE BLOCK KIT -LINING AND RIVETS (16.5 X 7 BRAKE)                             | 4   |
| 5**   | 014-057-00    | ROLLER, KNURLED (12.25 X 7.5 BRAKE)                                             | 4   |
|       | 014-065-00    | ROLLER, KNURLED (16.5 X 7 BRAKE)                                                | 4   |
| 6**   | 056-010-00    | RETAINER - ROLLER PIN (12.25 X 7.5 BRAKE)                                       | 8   |
|       | 071-122-00    | RETAINER, ROLLER (16.5 X 7 BRAKE)                                               | 4   |
| 6A**  | 069-018-00    | RETAINER RING (12.25 X 7.5 BRAKE ONLY)                                          | 8   |
| 7**   | 046-092-00    | SPRING, SHOE RETURN (12.25 X 7.5 BRAKE)                                         | 2   |
|       | 046-096-00    | SPRING, SHOE (16.5 X 7 BRAKE)                                                   | 2   |
| 8**   | 056-018-00    | RETAINER, RETRACTOR SPRING                                                      | 4   |
| 9**   | 046-097-00    | SPRING, SHOE KEEPER                                                             | 4   |
|       | ***K71-101-00 | CAMSHAFT REPAIR KIT (12.25 X 7.5) (ITEMS 10-15, & 22)                           |     |
|       | ***K71-135-00 | CAMSHAFT REPAIR KIT (16.5 X 7) (ITEMS 10-15, & 22)                              |     |
| 10*** | 005-074-00    | D" WASHER (12.25 X 7.5 BRAKE)                                                   | 2   |
|       | 005-096-00    | WASHER CAMSHAFT (16.5 X 7 BRAKE)                                                | 2   |
| 11*** | 010-052-00    | SEAL GREASE                                                                     | 4   |
| 12*** | 014-056-00    | BUSHING CAMSHAFT SPIDER                                                         | 2   |
| 13*** | 005-075-00    | WASHER CAMSHAFT(12.25 X 7.5 BRAKE)                                              | 4   |
|       | 005-097-00    | WASHER CAMSHAFT(16.5 X 7 BRAKE)                                                 | 4   |
| 13A   | 005-134-00    | WASHER CAMSHAFT SLACK ADJ END                                                   | 2   |
| 14*** | 069-020-00    | RETAINER CAMSHAFT                                                               | 2   |
|       | 069-078-00    | RETAINER CAMSHAFT SLACK ADJ END                                                 | 2   |
| 15*** | 014-058-00    | BUSHING CAMSHAFT SUPPORT                                                        | 2   |
| 16    | 136991        | CAMSHAFT, 23-3/8" LH(12.25X7.5 BRK, 76/77 TRK)                                  | 1   |
|       | 136992        | CAMSHAFT, 23-3/8" RH(12.25X7.5 BRK, 76/77 TRK)                                  | 1   |
|       | 137461        | CAMSHAFT, 25" LH (16.5 X 7 BRAKE, 75 TRK)                                       | 1   |
|       | 137485        | CAMSHAFT, 25"RH (16.5 X 7 BRAKE, 75 TRK)                                        | 1   |
| 17    | 127777        | SLACK ADJUSTER, AUTOMATIC (12.25 X 7.5 BRAKE)                                   | 2   |
|       | 127778        | SLACK ADJUSTER, AUTOMATIC (16.5 X 7 BRAKE)                                      | 2   |
|       | 127779        | SLACK ADJUSTER, AUTOMATIC                                                       | 1   |
| 18    | 006-114-00    | NUT, INNER SPINDLE                                                              | 2   |
| 19    | 005-098-00    | WASHER, SPINDLE LOCK                                                            | 2   |
| 20    | 005-099-00    | WASHER, TABBED SPINDLE LOCK                                                     | 2   |
| 21    | 006-115-00    | NUT, OUTER SPINDLE                                                              | 2   |
| 22*** | 061-006-00    | FITTING, GREASE 45°                                                             | 2   |
| 23    | 034-058-07    | CHAMBER, BRAKE (12.25 X 7.5 SPRING BRAKE)                                       | 2   |
|       | 034-057-07    | CHAMBER, BRAKE (12.25 X 7.5 SERVICE BRAKE)                                      |     |
|       | 034-058-01    | CHAMBER, BRAKE (16.5 X 7 SPRING BRAKE)                                          | 4   |
|       | 034-057-01    | CHAMBER, BRAKE (16.5 X 7 SERVICE BRAKE)                                         | 2   |
| 24    | 024-100-00    | 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 SERIAL NUMBER ON AXLE BEAM, MODEL, SIZE, TRACK LENGTH, BRAKE SIZE, AND CAMSHAFT LENGTH.

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

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

NOTE: FOR HUB AND DRUM INFORMATION, SEE PAGES 1-42 TO 1-43.

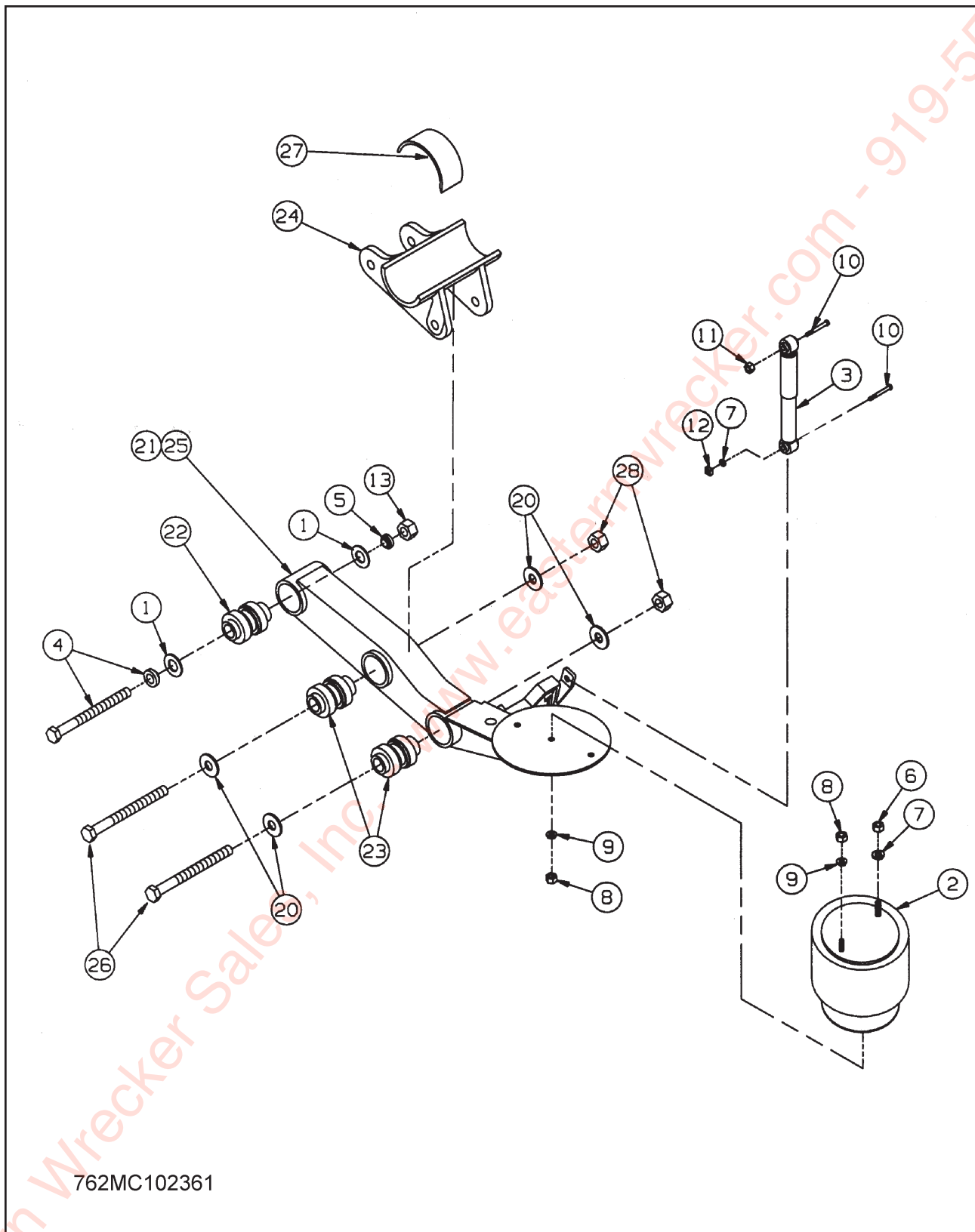


Figure 1-18 Suspension Hanger RLU-228

## SUSPENSION HANGER RLU-228

| ITEM | PART NO.        | DESCRIPTION                                    | QTY. |
|------|-----------------|------------------------------------------------|------|
|      | 102363          | SUSPENSION, ADJ. RLU-228-3.5 (INCL ITEMS 1-19) |      |
|      | 102364          | SUSPENSION, ADJ. RLU-228-5.5 (INCL ITEMS 1-19) |      |
|      | 102361          | SUSPENSION, BEAM. RLU-228(INCL ITEMS 20-28)    |      |
| 1    | 111010          | FLAT WASHER                                    | 2    |
| 2    | 905-57-129      | AIR SPRING ASSEMBLY (RLU-228-3.5)              | 2    |
|      | 111016          | AIR SPRING ASSEMBLY (RLU-228-5.5)              |      |
| 3    | 900 45 040      | SHOCK (RLU-228-3.5)                            | 2    |
|      | 900 44 642      | SHOCK (RLU-228-5.5)                            | 2    |
| 4    | 93908009        | ALIGN BUSH ASSEMBLY (CONSISTS OF:)             | 2    |
|      | 93201057        | ROD BOLT                                       | 1    |
|      | 90008184        | ALIGN BLOCK                                    | 1    |
| 5    | 900 08 186      | ALIGN BLOCK                                    | 2    |
| 6    | 934 00 149      | 3/4-16 HEX NUT GRB                             | 2    |
| 7    | 936 00 077      | LOCK WASHER, 3/4"                              | 4    |
| 8    | 1512-010007-09  | HEX NUT, 1/2-13                                | 4    |
| 9    | 1-816-010034-13 | LOCK WASHER, 1/2"                              | 4    |
| 10   | 930 03 597      | HEX HEAD CAP SCREW 3/4-10 X 3-1/2              | 4    |
| 11   | 934 00 492      | LOCK NUT, 3/4" - 10                            | 2    |
| 12   | 934-00-367      | 3/4-10 SQUARE NUT                              | 2    |
| 13   | 934-00-506      | 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    |
|      | 11005053        | 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   | 900-25-288      | SAFETY STRAP                                   | 2    |
| 28   | 934-00-506      | LOCK NUT 1-1/8-7                               | 4    |

NOTE: QUANTITIES LISTED ARE PER AXLE.

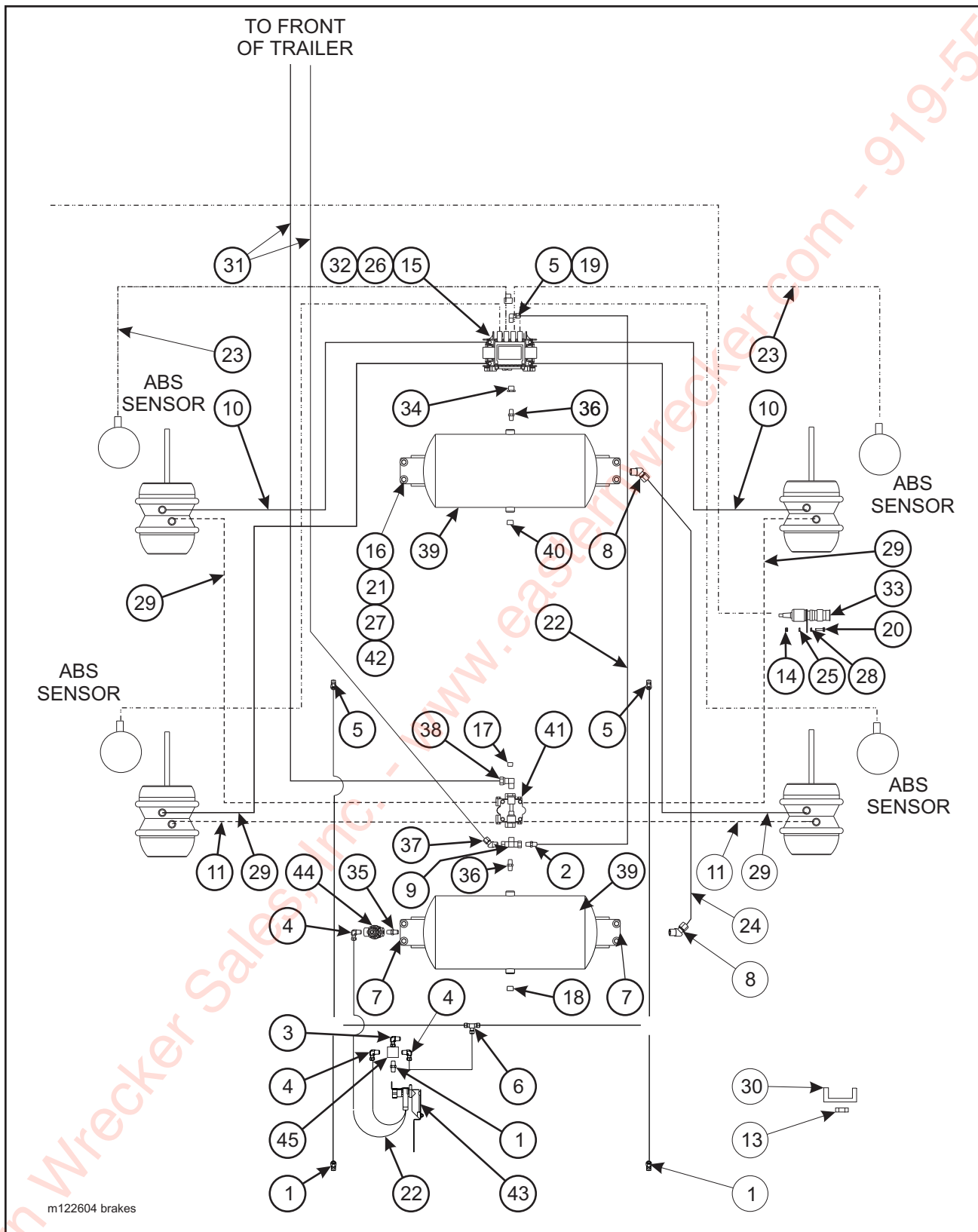


Figure 1-19 Spring Air Brake System w/ ABS, Tandem Axle

## AIR BRAKE SYSTEM W/ ABS, TANDEM

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
| 1    | 1-297-010007-11 | FITTING AIR                            | 3    |
| 2    | 1-297-010007-12 | FITTING AIR                            | 1    |
| 3    | 1-297-010008-05 | FITTING AIR 90                         | 1    |
| 4    | 1-297-010008-07 | FITTING AIR 90                         | 4    |
| 5    | 1-297-010008-18 | FITTING AIR 90                         | 3    |
| 6    | 1-297-010010-01 | FITTING AIR UNION TEE                  | 1    |
| 7    | 1-297-010010-04 | FITTING AIR UNION TEE                  | 2    |
| 8    | 1-297-010013-16 | FITTING AIR 45                         | 3    |
| 9    | 1-297-010017-03 | FITTING AIR M/BR TEE                   | 1    |
| 10   | 1-384-010038024 | HOSE AIR 3/8 X 24                      | 2    |
| 11   | 1-384-010038038 | HOSE AIR 3/8 X 38                      | 2    |
| 12   | 1-394-010001    | HOSE ABRASION SLEEVE X 2 (NOT SHOWN)   | 2    |
| 13   | 1-510-010001    | NUT FLANGE LOCK 3/8-16                 | 3    |
| 14   | 1-512-010005-01 | NUT HEX LOCK 1/4-20                    | 2    |
| 15   | 1-512-010005-03 | NUT, HEX LOCK 5/16-18                  | 2    |
| 16   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16                   | 14   |
| 17   | 1-560-010002-03 | PIPE PLUG 3/8                          | 3    |
| 18   | 1-560-010002-04 | PIPE PLUG 1/2                          | 3    |
| 19   | 1-560-010002-05 | PIPE PLUG 3/4-14                       | 1    |
| 20   | 1-654-010047-06 | SCREW HEX HEAD CAP 1/4-20 X 1 GR5      | 2    |
| 21   | 1-654-010051-08 | SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5  | 8    |
| 22   | 1-833-010001    | TUBING NYLON 1/4                       | AR   |
| 23   | 1-833-010002    | TUBING NYLON 3/8                       | AR   |
| 24   | 1-833-010003    | TUBING NYLON 1/2                       | AR   |
| 25   | 1-861-010032-07 | WASHER FLAT 1/4-20                     | 2    |
| 26   | 1-861-010032-09 | WASHER FLAT 5/16W                      | 2    |
| 27   | 1-861-010032-11 | WASHER FLAT 3/8W                       | 10   |
| 28   | 1-861-010034-09 | WASHER SPLIT LOCK 1/4                  | 2    |
| 29   | 101003          | HOSE AIR 3/8 X 48                      | 4    |
| 30   | 103817          | CLAMP HOSE                             | 5    |
| 31   | 109209          | HOSE, AIR 3/8 X 244                    | 2    |
| 32   | 114584          | ABS KIT 4S/2M (SEE PAGE 1-41)          | 1    |
| 33   | 114590          | POWER/DIAGNOSTIC CABLE                 | REF  |
| 34   | 118-2659-9      | BUSHING 1/2 X 3/4                      | 1    |
| 35   | 2083-8-4S       | NIPPLE HEX 1/2 - 1/4                   | 1    |
| 36   | 2083-8-8S       | NIPPLE 1/2 - 1/2                       | 2    |
| 37   | 2088-6-6S       | ADAPTER 45                             | 1    |
| 38   | 2089-6-6S       | ADAPTER 90                             | 1    |
| 39   | 3-780-010002    | TANK AIR                               | 2    |
| 40   | 56D4            | AIR TANK DRAIN COCK                    | 2    |
| 41   | 758-181         | VALVE RELAY EMERGENCY                  | 1    |
| 42   | 805-2           | STEP BUSHING                           | 16   |
| 43   | 900 54 007      | HEIGHT CONTROL VALVE                   | 1    |
| 44   | 905 54 107      | AIR PRESSURE PROTECTION VALVE & FILTER | 1    |
| 45   | 900 54 079      | PILOT VALVE                            | REF  |

**REFER TO AIR BRAKE SYSTEM W/ABS**

**- TANDEM AXLE DRAWINGS**

**ON PAGE 1-34**

**FOR SIMILAR INFORMATION**

**Figure 1-20 Spring Air Brake System w/ ABS, Triple Axle**

## AIR BRAKE SYSTEM W/ ABS, TRIPLE

| ITEM | PART NO.        | DESCRIPTION                              | QTY. |
|------|-----------------|------------------------------------------|------|
| 1    | 1-297-010007-11 | FITTING AIR                              | 3    |
| 2    | 1-297-010007-12 | FITTING AIR                              | 1    |
| 3    | 1-297-010008-05 | FITTING AIR 90                           | 1    |
| 4    | 1-297-010008-07 | FITTING AIR 90                           | 4    |
| 5    | 1-297-010008-18 | FITTING AIR 90                           | 5    |
| 6    | 1-297-010010-01 | FITTING AIR UNION TEE                    | 1    |
| 7    | 1-297-010010-03 | FITTING AIR UNION TEE                    | 2    |
| 8    | 1-297-010010-04 | FITTING AIR UNION TEE                    | 2    |
| 9    | 1-297-010013-16 | FITTING AIR                              | 2    |
| 10   | 1-297-010015-11 | FITTING AIR BRANCH TEE 1/2-1/2           | 1    |
| 11   | 1-297-010017-03 | FITTING AIR M/BR                         | 1    |
| 12   | 1-384-010038024 | HOSE AIR 3/8 X 24                        | 2    |
| 13   | 1-384-010038038 | HOSE AIR 3/8 X 38                        | 2    |
| 14   | 1-384-010038084 | HOSE AIR 3/8 X 84                        | 2    |
| 15   | 1-510-010001    | NUT FLANGE LOCK 3/8-16                   | 3    |
| 16   | 1-512-010005-03 | NUT, HEX LOCK 5/16-18                    | 2    |
| 17   | 1-512-010005-05 | NUT, HEX LOCK 3/8-16                     | 18   |
| 18   | 1-512-010007-05 | NUT, HEX 1/4-20                          | 4    |
| 19   | 1-560-010002-03 | PIPE PLUG 3/8                            | 1    |
| 20   | 1-560-010002-04 | PIPE PLUG 1/2                            | 6    |
| 21   | 1-560-010002-05 | PIPE PLUG 3/4-14                         | 1    |
| 22   | 1-654-010047-06 | SCREW HEX HEAD CAP 1/4-20 X 1 GR5        | 3    |
| 23   | 1-654-010051-08 | SCREW HEX HEAD CAP 3/8-16 X 1-3/4 GR5    | 12   |
| 24   | 1-833-010001    | TUBING NYLON 1/4                         | AR   |
| 25   | 1-833-010002    | TUBING NYLON 3/8                         | AR   |
| 26   | 1-833-010003    | TUBING NYLON 1/2                         | AR   |
| 27   | 114590          | POWER/DIAGNOSTIC CABLE                   | REF  |
| 28   | 1-861-010032-07 | WASHER FLAT 1/4-20                       | 4    |
| 29   | 1-861-010032-09 | WASHER FLAT 5/16W                        | 2    |
| 30   | 1-861-010032-11 | WASHER FLAT 3/8W                         | 18   |
| 31   | 1-861-010034-09 | WASHER SPLIT LOCK 1/4                    | 4    |
| 32   | 101003          | HOSE AIR 3/8 X 48                        | 4    |
| 33   | 103817          | CLAMP HOSE                               | 5    |
| 34   | 112244          | HOSE, AIR 3/8 X 268                      | 1    |
| 35   | 112245          | HOSE, AIR 3/8 X 276                      | 1    |
| 36   | 114586          | ABS KIT 4S/2M TRI/SPREAD (SEE PAGE 1-41) | 1    |
| 37   | 117304          | TUBING, NYLON 5/8                        | AR   |
| 38   | 118-2659-9      | BUSHING 1/2 X 3/4                        | 2    |
| 39   | 2083-8-4S       | NIPPLE HEX 1/2 - 1/4                     | 1    |
| 40   | 2083-8-8S       | NIPPLE 1/2 - 1/2                         | 2    |
| 41   | 2088-6-6S       | ADAPTER 45                               | 1    |
| 42   | 2089-6-6S       | ADAPTER 90                               | 1    |
| 43   | 3-780-010002    | TANK AIR                                 | 3    |
| 44   | 56D4            | AIR TANK DRAIN COCK                      | 3    |
| 45   | 758-181         | VALVE RELAY EMERGENCY                    | 1    |
| 46   | 805-2           | STEP BUSHING                             | 24   |
| 47   | 900 54 007      | HEIGHT CONTROL VALVE                     | 1    |
| 48   | 905 54 107      | AIR PRESSURE PROTECTION VALVE & FILTER   | 1    |
| 49   | 900 54 079      | PILOT VALVE                              | REF  |

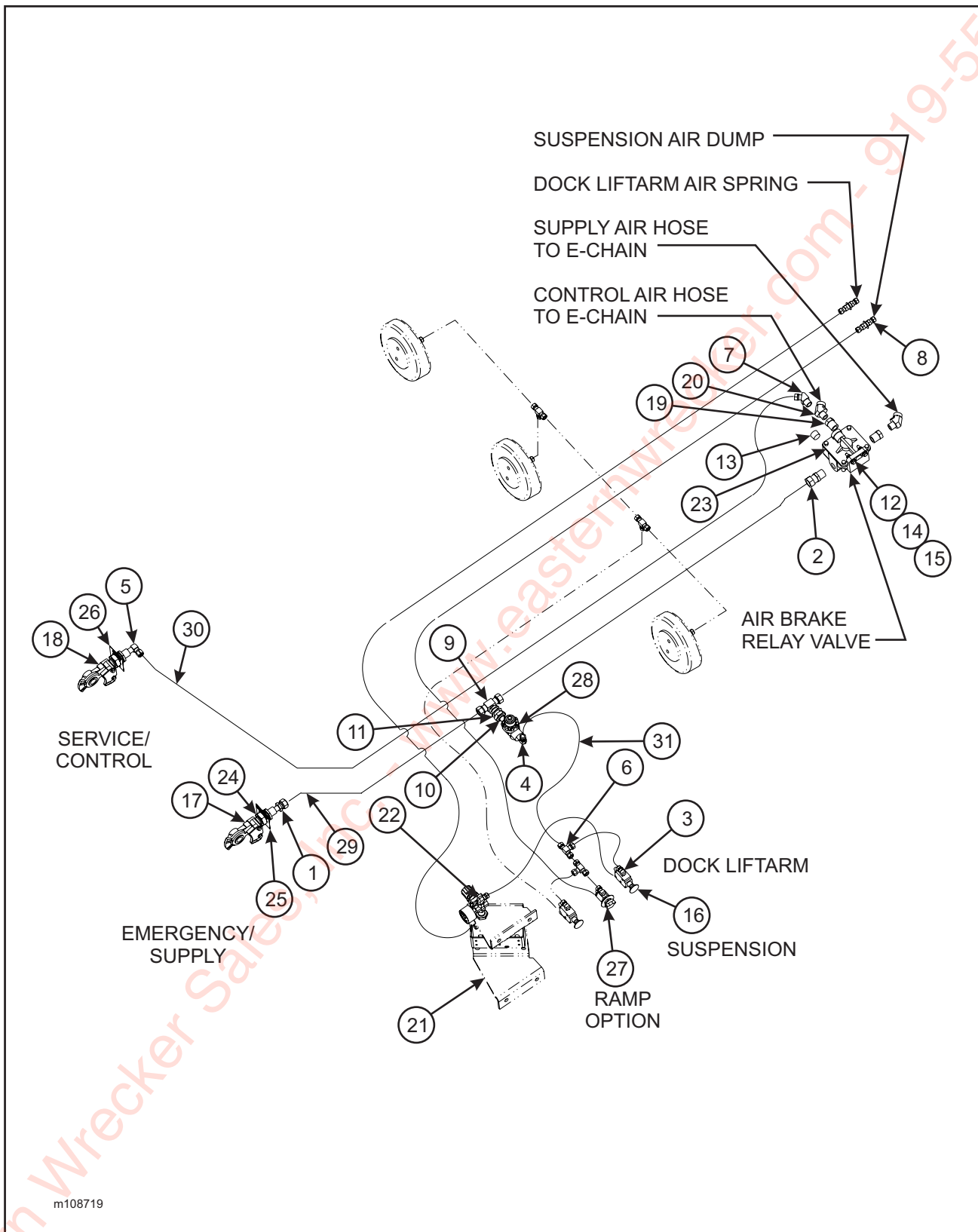
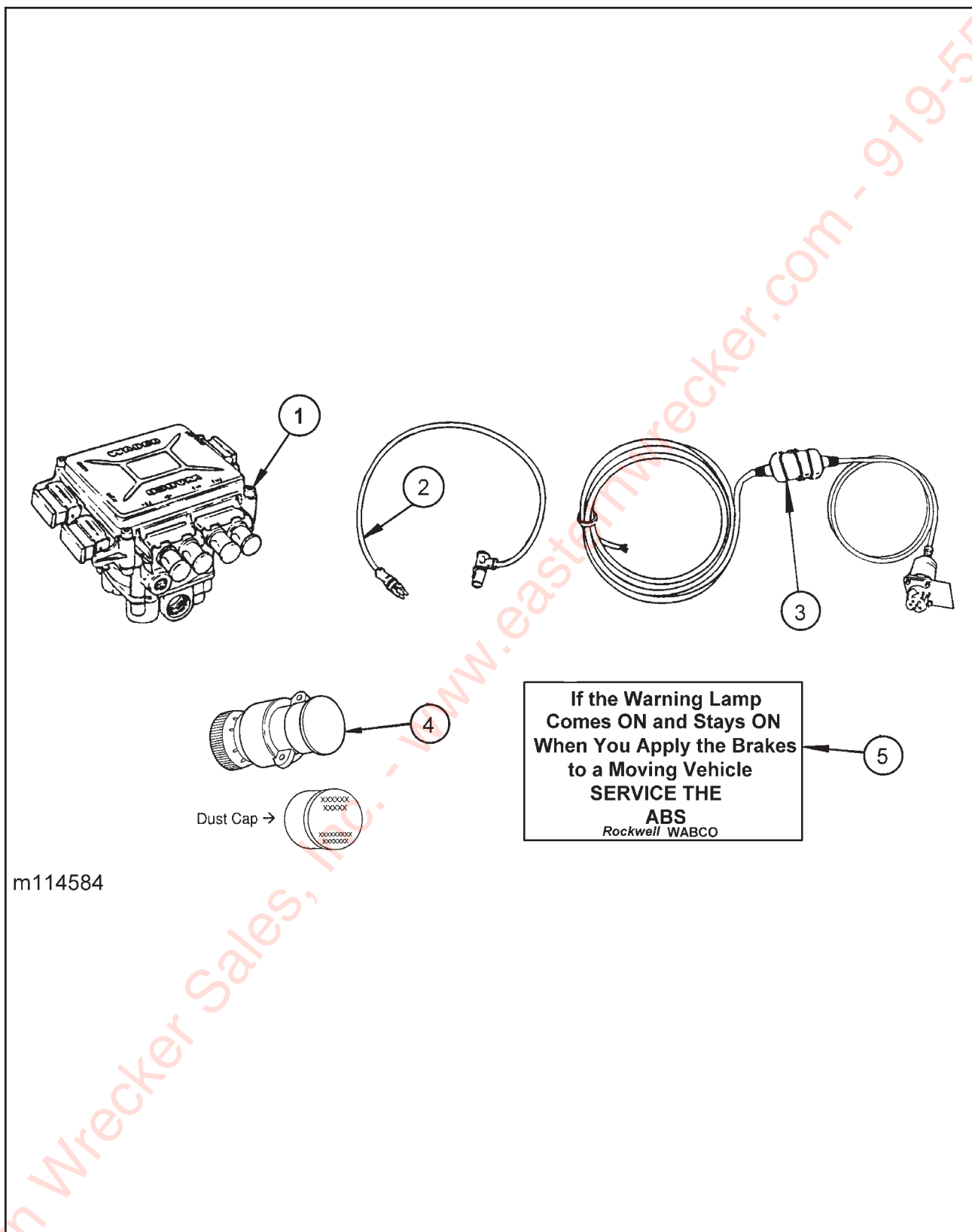


Figure 1-21 Air System ABS



## AIR SYSTEM, ABS

| ITEM | PART NO.        | DESCRIPTION                           | QTY. |
|------|-----------------|---------------------------------------|------|
|      | 108719          | AIR SYSTEM                            |      |
| 1    | 1-297-010007-14 | FITTING AIR                           | 1    |
| 2    | 1-297-010007-16 | FITTING AIR                           | 1    |
| 3    | 1-297-010008-05 | FITTING AIR 90                        | 4    |
| 4    | 1-297-010008-07 | FITTING AIR 90                        | 3    |
| 5    | 1-297-010008-18 | FITTING AIR 90                        | 1    |
| 6    | 1-297-010010-01 | FITTING, AIR UNION TEE 1/4            | 1    |
| 7    | 1-297-010013-12 | FITTING AIR 45                        | 1    |
| 8    | 1-297-010014-02 | FITTING AIR BULKHEAD UNION 1/4        | 2    |
| 9    | 1-297-010015-09 | FITTING AIR, BR TEE                   | 1    |
| 10   | 1-297-010020-02 | FITTING BR PIPE                       | 2    |
| 11   | 1-297-010022-02 | FITTING, AIR ANCHOR COUPLING          | 2    |
| 12   | 1-512-010005-01 | NUT HEX LOCK 1/4-20 GRB               | 2    |
| 13   | 1-560-010002-04 | PLUG, PIPE                            | 1    |
| 14   | 1-654-010027-7  | SCREW HEX HEAD CAP 1/4-20 X 1-1/4 GR8 | 2    |
| 15   | 1-861-010032-06 | WASHER, FLAT 1/4                      | 2    |
| 16   | 107887          | VALVE AIR PUSH BUTTON                 | 1    |
| 17   | 108801          | GLADHAND RED AIR                      | 1    |
| 18   | 108802          | GLADHAND BLUE AIR                     | 1    |
| 19   | 2081-8-6S       | REDUCER                               | 2    |
| 20   | 2088-6-6S       | ADAPTER 45                            | 2    |
| 21   | 3-482-010563    | MOUNT WELDMENT, VALVE HYD/PNEUMATIC   | REF  |
| 22   | 3-626-010004    | REGULATOR AIR PRESSURE                | 1    |
| 23   | 3-843-010038    | VALVE, AIR RELAY FAST AIR BAL         | 1    |
| 24   | 55B61           | FRAME UNION                           | 2    |
| 25   | 55B61-6         | TAG EMERGENCY LINE                    | 1    |
| 26   | 55B61-7         | TAG SERVICE LINE                      | 1    |
| 27   | 900-54-088      | VALVE, MANUALLY OPERATED              | 1    |
| 28   | 905-54-107      | BRAKE PROTECTION VALVE                | 1    |
| 29   | 1-833-010003    | TUBING NYLON 1/2 OD                   | AR   |
| 30   | 1-833-010002    | TUBING NYLON 3/8 OD                   | AR   |
| 31   | 1-833-010001    | TUBING NYLON 1/4 OD                   | AR   |
| 32   | 3-120-010445    | BRACKET PRESSURE REGULATOR            | 1    |



m114584

Figure 1-22 Brake Kit, Rockwell ABS

## BRAKE KIT ROCKWELL ABS

| ITEM | PART NO. | DESCRIPTION                      | QTY. |
|------|----------|----------------------------------|------|
|      | 114584   | ABS BRAKE KIT 4S/2M              |      |
|      | 114586   | ABS BRAKE KIT 4S/2M-TRI/SPRD     |      |
| 1    | 114588   | ECU/VALVE ASSEMBLY               | 1    |
| 2    | 101848   | SENSOR EXTENSION CABLE (114584)  | 4    |
|      | 103861   | SENSOR EXTENSION CABLE (114586)  | 2    |
| 3    | 114590   | POWER/DIAGNOSTIC CABLE 4.0M/3.0M | 1    |
| 4    | 101851   | DIAGNOSTIC SWITCH                | 1    |
| 5    | 101855   | WARNING LAMP LABEL               | 1    |

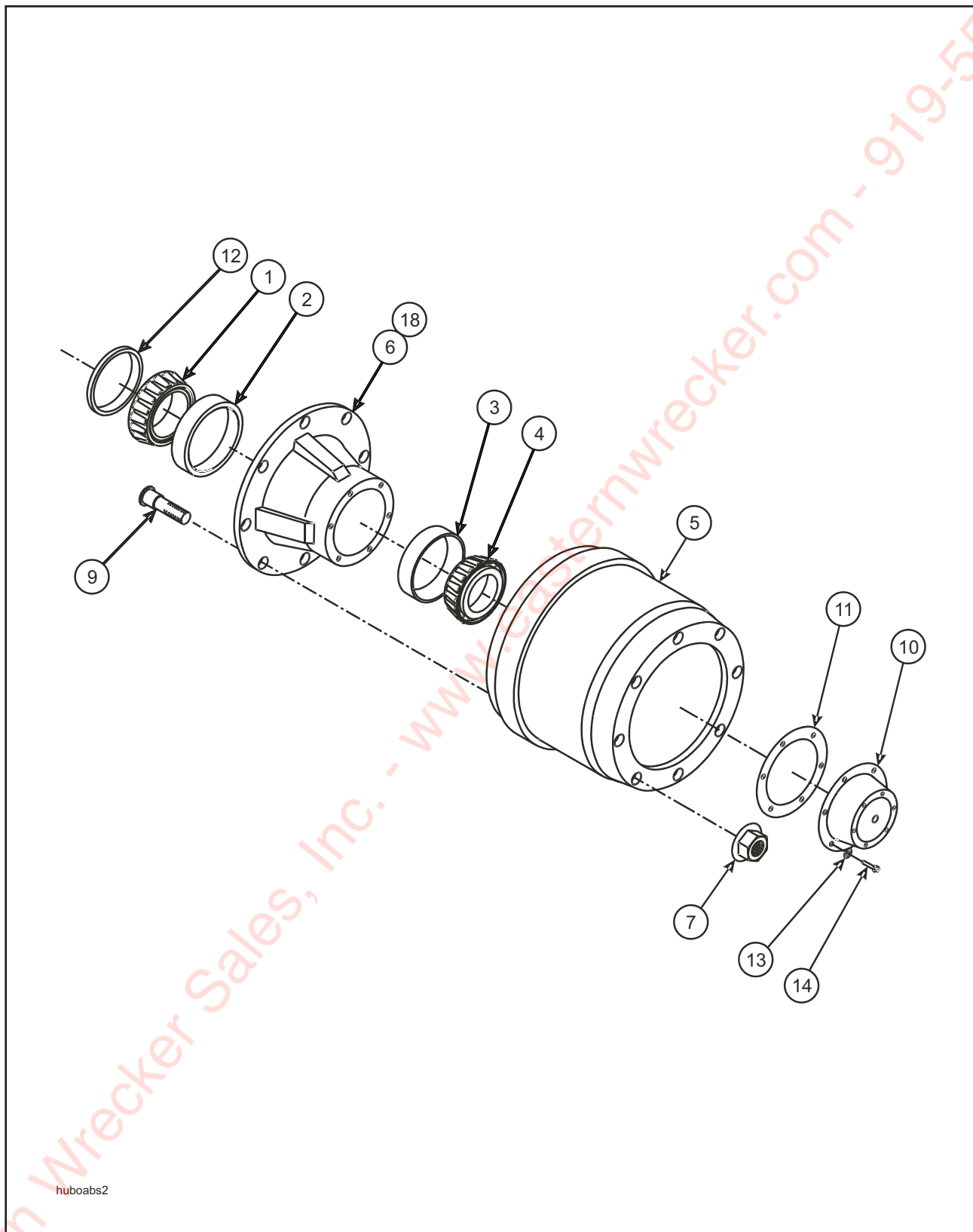


Figure 1-23 Outboard Pilot Mount Hub and Drum

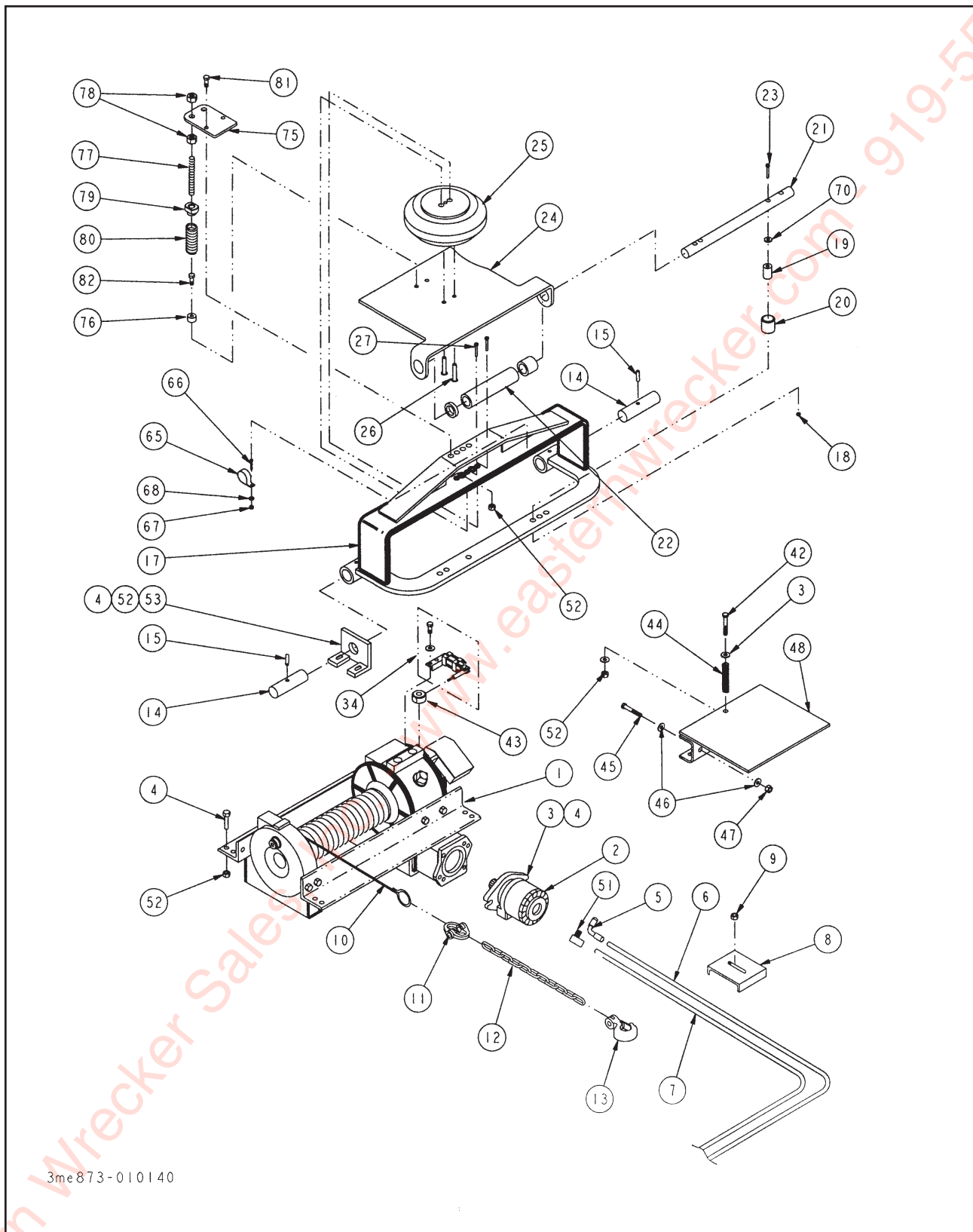
## OUTBOARD PILOT MOUNT HUB AND DRUM

| ITEM | PART NO.          | DESCRIPTION                                                         | QTY. |
|------|-------------------|---------------------------------------------------------------------|------|
|      | 103783            | HUB/DRUM ASSY 16-1/2" LONG STUD, PILOT, ABS                         |      |
|      | 105812            | HUB/DRUM ASSY 12-1/4" LONG STUD, PILOT ABS                          |      |
| 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    | 110976(66884)     | OUTBOARD MOUNTED BRAKE DRUM (10 BOLT)                               | 1    |
|      | 63680             | OUTBOARD MOUNTED BRAKE DRUM (8 BOLT)                                | 1    |
| 6    | 110975(2023----T) | HUB W/ TONE RING (10 BOLT)(USED W/ 103783)                          | 1    |
|      | 112492(2027----T) | HUB W/ TONE RING (8 BOLT)(USED W/ 105812)                           | 1    |
| 7    | 179933            | FLANGE NUT (10 BOLT)                                                | 10   |
|      | 179955            | FLANGE NUT (8 BOLT)                                                 | 8    |
| 9    | 101160            | STUD                                                                | 10   |
| 10   | 4009              | CAP HUB W/ VENT PLUG                                                | 1    |
| 11   | 071-124-00(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   | 3-870-010104      | WHEEL. 22.5X7.50 PILOT MT (10 BOLT)<br>16-1/2" BRAKE (NOT SHOWN)    | 1    |
|      | 3-870-010106      | WHEEL ALUM PILOT MT 22.5X7.50 (10 BOLT) (NOT SHOWN)                 | 1    |
|      | 3-870-010116      | WHEEL ALUM PILOT MT 22.5X7.50 (10 BOLT) (NOT SHOWN)                 | 1    |
|      | 3-870-010097      | WHEEL 17.5X6.75 PILOT MT (8 BOLT)<br>12-1/4" BRAKE (NOT SHOWN)      | 1    |
|      | 100402            | WHEEL 17.5X6.75 ALUM PILOT MT (8 BOLT)<br>12-1/4" BRAKE (NOT SHOWN) | 1    |
|      | 112047            | WHEEL AL PILOT 17.5 X 6.75 MACH (NOT SHOWN)                         | 1    |
| 16   | TR573             | VALVE STEM - STEEL WHEEL (NOT SHOWN)                                | 1    |
|      | 100401            | VALVE STEM TR543C - ALUMINUM WHL (NOT SHOWN)                        | 1    |
|      | TR545D            | VALVE STEM - ALUMINUM WHL (NOT SHOWN)                               | 1    |
| 17   | 1-843-010014      | VALVE EXTENSION, STEM 3"<br>(USED W/ 12-1/4" BRAKES)(NOT SHOWN)     | 1    |
| 18   | *                 | ABS TONE RING                                                       | 1    |

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

\*\* THE FIRST QUANTITY IS FOR THE 8 BOLT WHEEL, AND THE SECOND QUANTITY  
IS FOR THE 10 BOLT WHEEL.

NOTE: SEE PAGES 1-42 AND 1-42 FOR HUBODOMETER AND MOUNTING CAP PART NUMBERS.



**Figure 1-24 12K & 20K Upper Deck Winch (Braden)**  
(1 of 2)

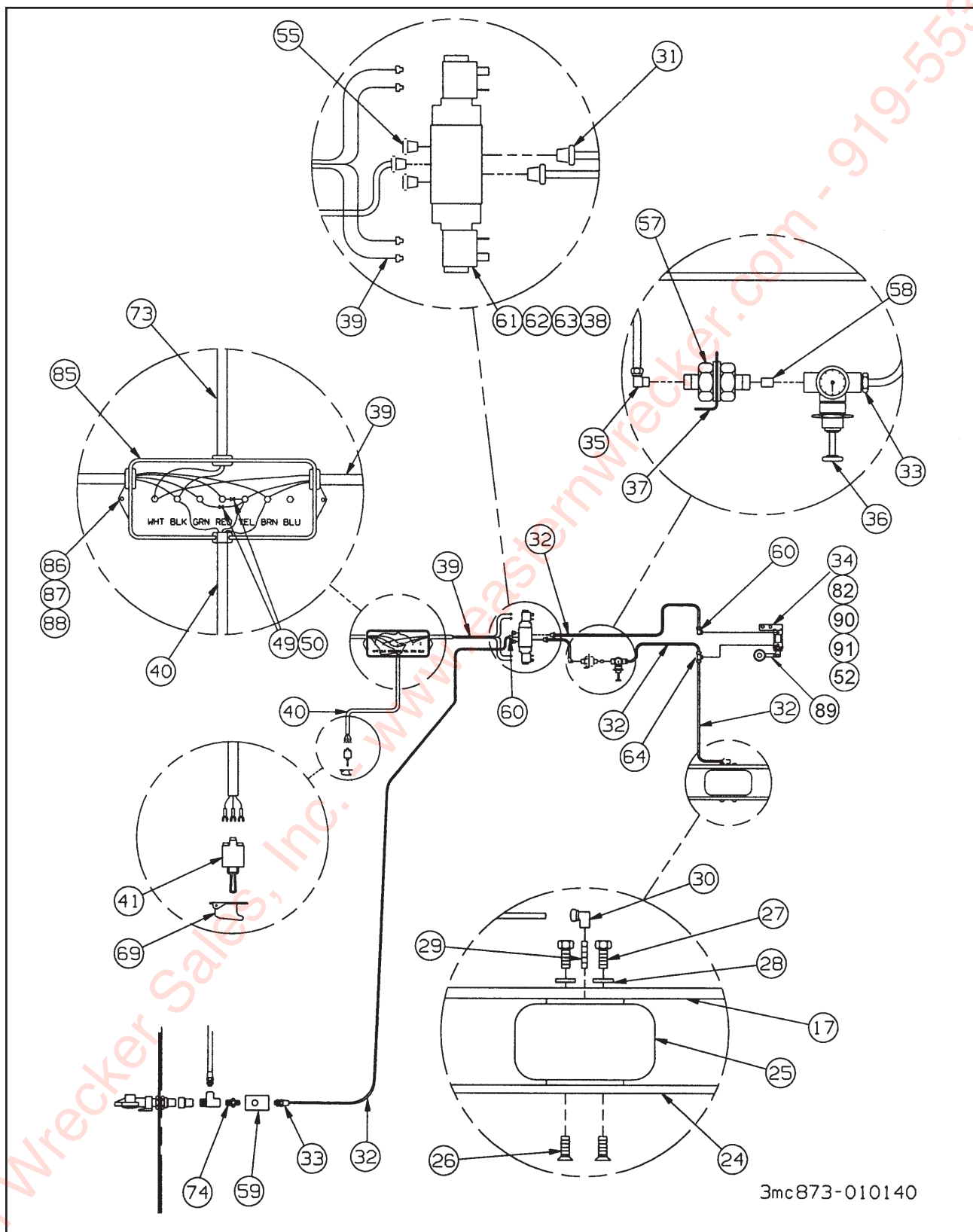


Figure 1-25 12K & 20K Upper Deck Winch (Braden)  
(2 of 2)

## 12K & 20K UPPER DECK WINCH (BRADEN)

| ITEM | PART NO.        | DESCRIPTION                              | QTY.       |
|------|-----------------|------------------------------------------|------------|
|      | 3-873-010140    | WINCH INSTALLATION 600-20K               |            |
|      | 3-873-010144    | WINCH INSTALLATION 600-12K               |            |
|      | 123210          | WINCH 20K GUIDE AIR TEN/REL              |            |
| 1    | 3-873-010123    | WINCH ASSY 20K (SEE PAGE 1-54)           | 1          |
|      | 3-873-010122    | WINCH ASSY 12K (SEE PAGE 1-51)           | 1          |
| 2    | 3-481-010007    | MOTOR HYD. (20K) (SEE PAGE 1-57)         | 1          |
|      | 3-481-010006    | MOTOR HYD. (12K) (SEE PAGE 1-57)         | 1          |
| 3    | 1-861-010032-15 | WASHER, FLAT 1/2                         | 2          |
| 4    | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5   | 6          |
| 5    | 202702-10-8S    | ADAPTER                                  | 1          |
| 6    | 1-397-010301170 | HOSE ASSEMBLY                            | 1          |
| 7    | 1-397-010302172 | HOSE ASSEMBLY                            | 1          |
| 8    | 2-181-010001    | HOSE CLAMP                               | 4          |
| 9    | 1-510-010001    | NUT FLANGE LOCK 3/8-16                   | 4          |
| 10   | 3-155-010017-4  | CABLE (12K) 85' W/ LOOP                  | 1          |
|      | 3-155-010018-6  | CABLE (20K) 85' W/ LOOP                  | 1          |
| 11   | 3-174-010038    | LINK                                     | 1          |
| 12   | 3-174-010039036 | CHAIN                                    | 1          |
| 13   | 7HCGHT500       | HOOK                                     | 1          |
| 14   | 3-557-010474    | PIN, PIVOT                               | **2        |
|      | 119622          | PIN, PIVOT WINCH ROLLER                  | 1          |
| 15   | 1-647-010004255 | PIN, SPRING SLOTTED 2 X 3/8              | **2        |
| 16   | 3-125-010464    | BRACKET WLDMT WINCH ROLLER (NOT SHOWN)   | **1,****1  |
| 17   | 3-125-010465    | BRACKET WLDMT WINCH TENSIONER            | *1,**1,**1 |
| 18   | 1-512-010005-13 | NUT HEX LOCK 5/8-11 GR8                  | **2        |
| 19   | 3-150-010196    | BUSHING, ROD ROLLER-600                  | **2        |
| 20   | 3-831-010172    | TUBE, ROLLER SIDE                        | **2        |
| 21   | 102188          | ROD, PIVOTING GUIDE (20K)                | **1        |
|      | 3-642-010150    | ROD, ROLLER TOP (12K)                    | **1        |
| 22   | 3-831-010182    | TUBE, ROLLER TOP - 600 (20K)             | **2        |
|      | 3-831-010151    | TUBE, ROLLER TOP (12K)                   | **1        |
| 23   | 1-654-010059-15 | SCREW, HEX HEAD CAP 5/8-11X5 GR5         | **2        |
| 24   | 102187          | WINCH TENSIONER PLATE (20K)              | *1         |
|      | 3-873-010145    | WINCH TENSIONER PLATE (12K)              | *1         |
| 25   | 3-720-010042    | SPRING, AIR 6-1/2                        | *1         |
| 26   | 1-654-010141-04 | SCREW, HEX SOC. HEAD CTSK 3/8-16X1 GR8   | *2         |
| 27   | 1-654-010036-05 | SCREW, HEX HEAD CAP 3/8-16X1 GR5         | *2         |
| 28   | 1-861-010032-10 | WASHER FLAT 3/8N                         | *2         |
| 29   | 1-297-010031-02 | FITTING, BRASS PIPE 1/4 X 1-1/2          | *1         |
| 30   | 1-297-010032-03 | FITTING, AIR 90                          | *1         |
| 31   | 1-297-010007-04 | CONNECTOR PIPE TO TUBE                   | ***4       |
| 32   | 1-833-01001     | NYLON TUBING 1/4 OD                      | ***28FT    |
| 33   | 1-297-010007-05 | FITTING, AIR                             | *2         |
| 34   | 107368          | WINCH AIR SHIFT CYL (20K)(SEE PAGE 1-56) | ***1       |
| 35   | 1-297-010008-07 | FITTING, AIR 90                          | 1          |
| 36   | 3-626-010004    | REGULATOR, AIR PRESSURE                  | *1         |
| 37   | 3-120-010445    | BRACKET, PRESSURE REGULATOR              | *1         |
| 38   | 3-843-010022    | VALVE, PNEUMATIC                         | ***1       |
| 39   | 3-368-010129    | HARNESS ASSY SINGLE REMOTE               | ***1       |
| 40   | 3-368-010187    | HARNESS REMOTE SWITCH                    | ***1       |
| 41   | 1-765-010065    | SWITCH, TOGGLE                           | ***1       |
| 42   | 1-654-010055-16 | SCREW, HEX HEAD CAP 1/2-13X5-1/2 GR5     | 1          |
| 43   | 3-150-010186    | BUSHING WINCH REMOTE LEVER (20K)         | 1          |
| 44   | 3-720-010010    | SPRING COMP LEVEL WIND                   | 1          |



## 12K & 20K UPPER DECK WINCH (BRADEN)

| ITEM | PART NO.         | DESCRIPTION                             | QTY.      |
|------|------------------|-----------------------------------------|-----------|
| 45   | 1-654-010051-06  | SCREW, HEX HEAD CAP 3/8-16X1-1/4 GR5    | 3         |
| 46   | 1-861-010032-10  | WASHER, FLAT 3/8N                       | 6         |
| 47   | 1-512-010005-05  | NUT, HEX 3/8-16                         | 3         |
| 48   | 102186           | WINCH TENSIONER WLDMT (20K)             | 1         |
|      | 3-873-010124     | WINCH TENSIONER WLDMT (12K)             | 1         |
| 49   | 2-272-010109     | ZENOR DIODE (20K)                       | 2         |
| 50   | 3-272-010018     | HEAT SHRINK INSULATOR (20K)             | ****2     |
| 51   | 2062-10-8S       | ADAPTER, 90                             | ****1     |
| 52   | 1-512-010005-09  | NUT, HEX LOCK 1/2-13 GRB                | 19        |
| 53   | 119621           | ANCHOR CABLE GUIDE WINCH                | 2         |
| 55   | 3-136-010001-01  | BREATHER, PNEUMATIC EXHAUST             | *2        |
| 57   | 1-297-010022-02  | FITTING, AIR ANCHOR                     | 1         |
| 58   | 1-297-010020-02  | FITTING, BRASS PIPE                     | 1         |
| 59   | 905-54-107       | VALVE AND FILTER PRESSURE               | *1,2      |
|      | 48100200         | FILTER                                  | *1,2      |
| 60   | 1-297-010008-05  | FITTING, AIR 90                         | *3        |
| 61   | 1-654-010024014  | SCREW, MACH SLOT 6-32X1-1/2             | *3        |
| 62   | 1-861-010032-01  | WASHER, FLAT #6                         | *3        |
| 63   | 1-512-010003-02  | NUT, HEX LOCK 6-32                      | *1        |
| 64   | 1-297-010015-02  | FITTING, AIR BRANCH TEE (20K)           | REF       |
| 65   | 239-9076-3       | SUPPORT CLAMP                           | *1        |
|      | 125892           | CLAMP, CABLE 3/8                        | 1         |
| 66   | 1-656-010003053  | SCREW RD HEAD MACH. #10-24X1 GR2        | *1        |
| 67   | 1-512-010004-03  | NUT HEX LOCK #10-24                     | *1        |
| 68   | 1-861-010034-07  | WASHER, SPLIT LOCK #10                  | *1        |
| 69   | 3-348-010048     | GUARD SWITCH -3 POSITION                | 1         |
| 70   | 1-861-0140032-18 | WASHER FLAT 5/8N (20K)                  | **2       |
| 73   | 3-368-010188     | HARNESS POWER3 JUMPER 660               | 1         |
| 74   | 1-297-010019-05  | FITTING BRS PIPE HEX 3/8X1/4            | 1         |
| 75   | 3-565-011688     | PLATE F/W SPRING TENSION - 600          | *1        |
| 76   | 3-014-010255     | ANCHOR BUSHING F/W SPRING TENSION - 600 | *2        |
| 77   | RTR7999X4ZP      | ROD THREADED                            | *2        |
| 78   | 1-512-010007-12  | NUT HEX 3/4-10 GRB                      | *4        |
| 79   | 3-522-010017     | NUT F/W SPRING TENSION - 600            | *2        |
| 80   | 3-720-010035     | SPRING                                  | *2        |
| 81   | 1-654-010055-03  | SCREW HEX HEAD CAP 1/2-13X1-1/2 GR5     | *2        |
| 82   | 1-654-010055-01  | SCREW HEX HEAD CAP 1/2-13 X 1 GR5       | **2, ***3 |
| 83   | 100600           | DECAL, WARNING WINCH (NOT SHOWN)        | 1         |
| 85   | 750-029          | JUNCTION BOX 7-STUD                     | 1         |
| 86   | 1-512-010007-05  | NUT HEX 1/4-20 GRB                      | 2, ***3   |
| 87   | 1-861-010032-06  | WASHER FLAT 1/4N                        | 2         |
| 88   | 1-861-010034-09  | WASHER SPLIT LOCK 1/4                   | 2, ***3   |
| 89   | 107369           | LEVER WINCH FREE SPOOL                  | ***1      |
| 90   | 1-861-010032-14  | WASHER, FLAT 1/2                        | ***2      |
| 91   | 1-861-010034-13  | WASHER, SPLIT LOCK 1/2                  | 2         |
| 92   | 1-560-010002-01  | PLUG 1/8 (12K) (NOT SHOWN)              | 1         |
| 93   | F-100852         | CABLE GUIDE PIVOT 12K (NOT SHOWN)       | 1         |

### NOTES:

- \* - FOR AIR TENSION OPTION.
- \*\* - FOR CABLE ROLLER OPTION (P/N F-100852).
- \*\*\* - FOR AIR SHIFT OPTION. (AVAILABLE ONLY ON 20K WINCH.)
- \*\*\*\* - FOR SPRING TENSION OPTION.

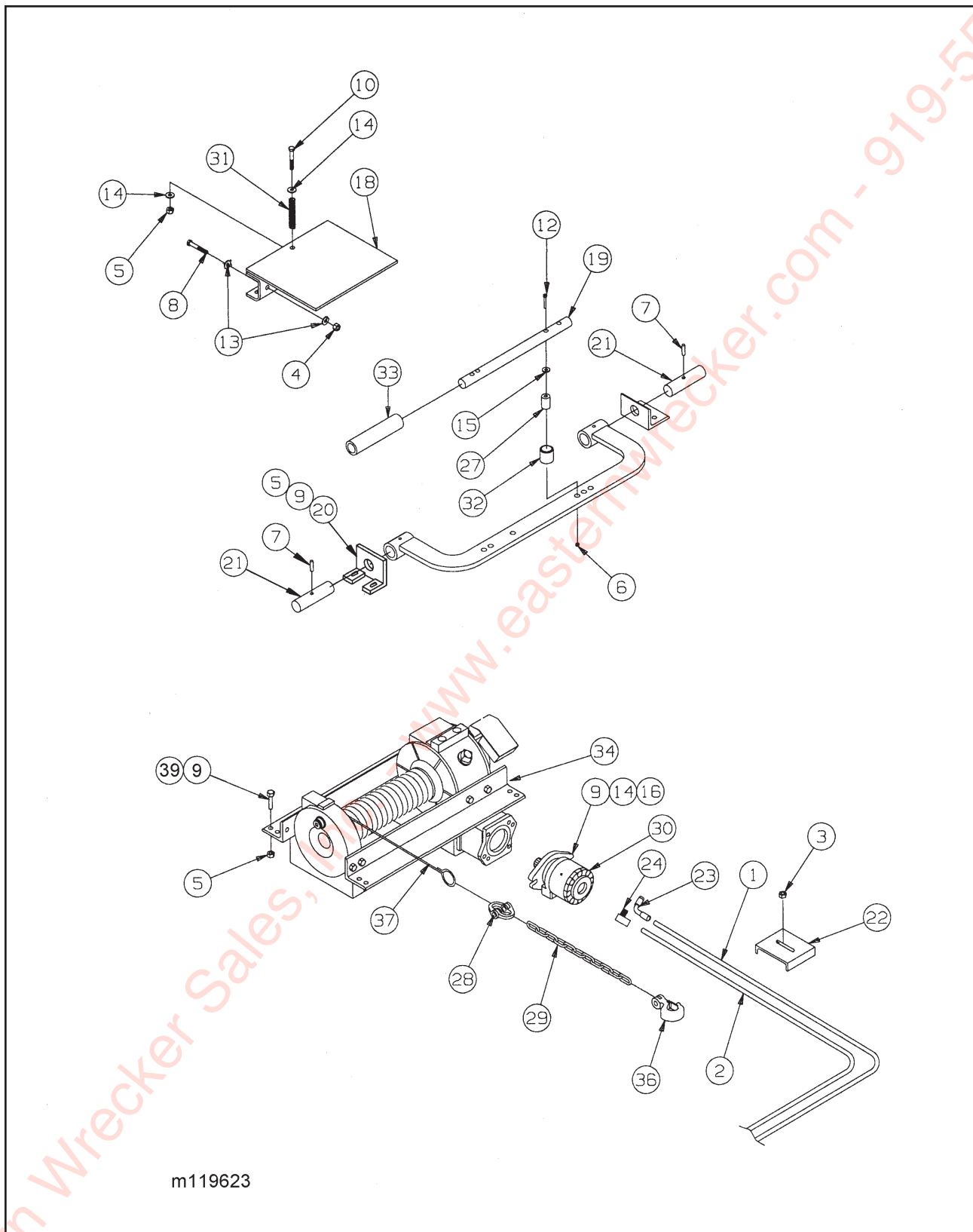


Figure 1-26 Winch Installation, Spring Tension Cable Roller

## WINCH INST., SPRING TENSION CABLE ROLLER

| ITEM | PART NO.        | DESCRIPTION                                  | QTY.   |
|------|-----------------|----------------------------------------------|--------|
|      | 119623          | WINCH INST. 12K SPRING TENSION CABLE ROLLER  |        |
|      | 119624          | WINCH INST. 20K SPRING TENSION CABLE ROLLER  |        |
| 1    | 1-397-010301170 | HOSE ASSEMBLY                                | 1      |
| 2    | 1-397-010302172 | HOSE ASSEMBLY                                | 1      |
| 3    | 1-510-0100001   | NUT FLANGE LOCK 3/8-16 (20K)                 | 4      |
| 4    | 1-512-010005-05 | NUT, HEX 3/8-16                              | 3      |
| 5    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                     | 13     |
| 6    | 1-512-010005-13 | NUT HEX LOCK 5/8-11 GR8                      | 2      |
| 7    | 1-647-010004255 | PIN, SPRING SLOTTED 2 X 3/8                  | 2      |
| 8    | 1-654-010051-06 | SCREW, HEX HEAD CAP 3/8-16X1-1/4 GR5         | 3      |
| 9    | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5       | *6, 14 |
| 10   | 1-654-010055-16 | SCREW, HEX HEAD CAP 1/2-13X5-1/2 GR5         | 1      |
| 12   | 1-654-010059-15 | SCREW, HEX HEAD CAP 5/8-11 X 5 GR5           | 2      |
| 13   | 1-861-010032-10 | WASHER, FLAT 3/8N                            | 6      |
| 14   | 1-861-010032-15 | WASHER, FLAT 1/2                             | 2      |
| 15   | 1-861-010032-18 | WASHER FLAT 5/8N (20K)                       | 2      |
| 16   | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2                       | 2      |
| 17   | 100600          | DECAL, WARNING WINCH (NOT SHOWN)             | 1      |
| 18   | 3-873-010124    | WINCH TENSIONER WLDMT (12K)                  | 1      |
|      | 102186          | WINCH TENSIONER WLDMT (20K)                  | 1      |
| 19   | 3-642-010150    | ROD, ROLLER TOP (12K)                        | 1      |
|      | 102188          | ROD, PIVOTING GUIDE (20K)                    | 1      |
| 20   | 119621          | ANCHOR CABLE GUIDE WINCH                     | 2      |
| 21   | 119622          | PIN, PIVOT WINCH ROLLER                      | 2      |
| 22   | 2-181-010001    | HOSE CLAMP                                   | 4      |
| 23   | 202702-10-8S    | ADAPTER                                      | 1      |
| 24   | 2062-10-8S      | ADAPTER 90                                   | 1      |
| 25   | 3-125-010464    | BRACKET WLDMT WINCH ROLLER (NOT SHOWN)       | 1      |
| 27   | 3-150-010196    | BUSHING, ROD ROLLER-600                      | 2      |
| 28   | 3-174-010038    | LINK                                         | 1      |
| 29   | 3-174-010039036 | CHAIN                                        | 1      |
| 30   | 3-481-010006    | MOTOR, HYD. (12K) (SEE PAGE 1-57)            | 1      |
|      | 3-481-010007    | MOTOR, HYD. (20K) (SEE PAGE 1-57)            | 1      |
| 31   | 3-720-010010    | SPRING COMP LEVEL WIND                       | 1      |
| 32   | 3-831-010172    | TUBE, WINCH ROLLER SIDE                      | 2      |
| 33   | 3-831-010151    | TUBE, ROLLER TOP (12K)                       | 1      |
|      | 3-831-010182    | TUBE, ROLLER TOP - 600 (20K)                 | 1      |
| 34   | 3-873-010122    | WINCH ASSY (12K) (SEE PAGE 1-51)             | 1      |
|      | 3-873-010123    | WINCH ASSY (20K) (SEE PAGE 1-54)             | 1      |
| 36   | 7HCGHT500       | HOOK                                         | 1      |
| 37   | 3-155-010018-6  | CABLE 85' W/ LOOP                            | 1      |
| 38   | 116378          | SPACER, WINCH (12K) (NOT SHOWN)              | 8      |
| 39   | 1-654-010055-07 | SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5 (12K) | *8,--  |

\* 1ST QUANTITY LISTED IS FOR P/N 119623; 2ND QUANTITY LISTED IS FOR P/N 119624.

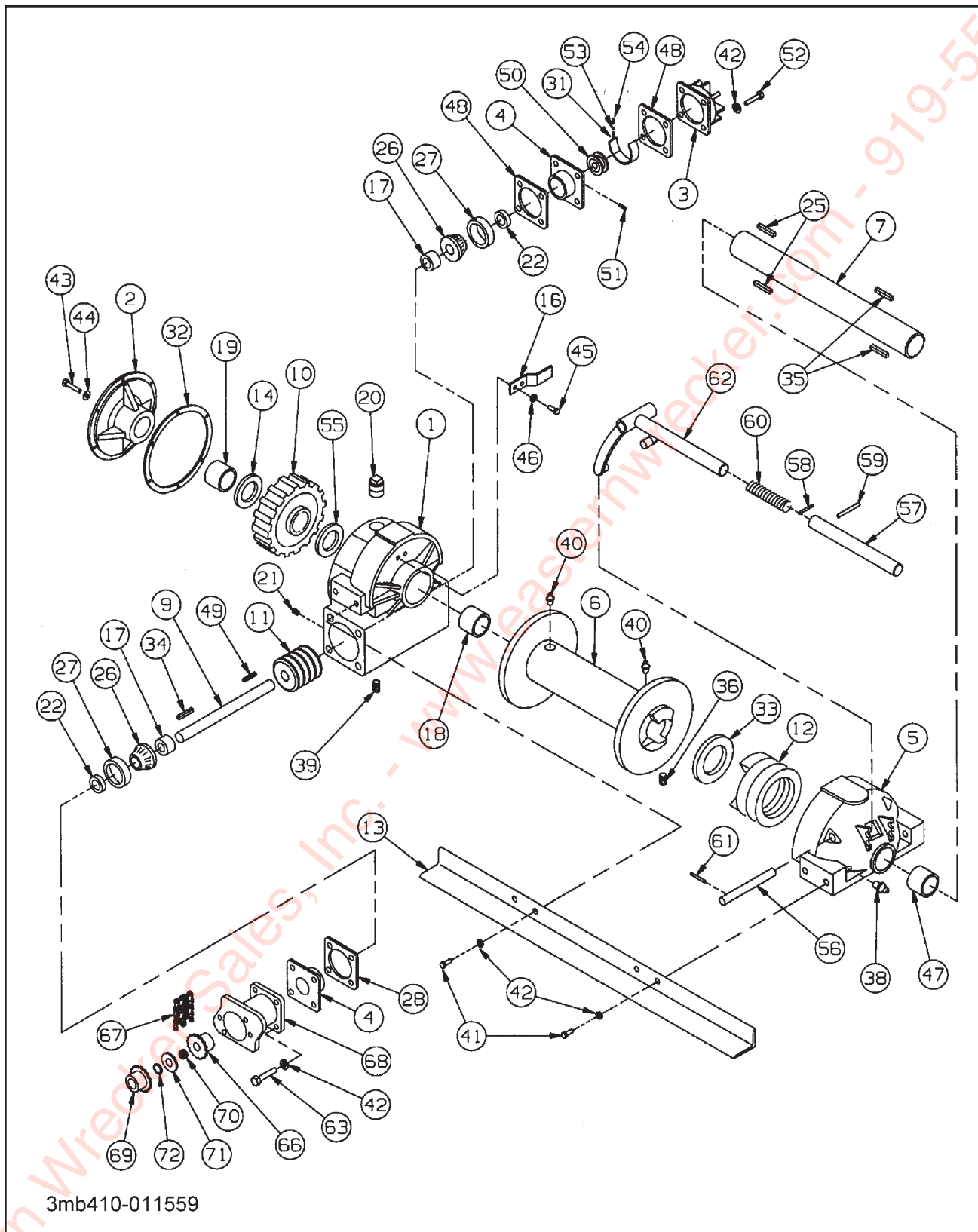


Figure 1-27 12,000# Winch Items (Braden Worm Gear)

## 12,000# WINCH ITEMS (BRADEN)

| ITEM | PART NO.     | DESCRIPTION                              | QTY. |
|------|--------------|------------------------------------------|------|
|      | 3-873-010122 | WINCH ASSEMBLY, 12,000#                  |      |
| 1    | 81006        | HOUSING ASSEMBLY WORM (INCLUDES ITEM 18) | 1    |
| 2    | 81009        | HOUSING COVER WORM (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                               | 1    |
| 11   | 11142        | WORM, LEFT HAND                          | 1    |
| 12   | 18039        | SLIDING CLUTCH                           | 1    |
| 13   | 22752        | ANGLE, BASE                              | 2    |
| 14   | 13680        | THRUST RING                              | 1    |
| 16   | 81025        | BRAKE, DRAG                              | 1    |
| 17   | 11308        | SPACER, WORM                             | 2    |
| 18   | 18078        | BUSHING                                  | 1    |
| 19   | 11368        | BUSHING                                  | 1    |
| 20   | 22775        | PLUG, PIPE                               | 1    |
| 21   | 18009        | PLUG, PIPE                               | 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        | SCREW, SET                               | 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                                  | 1    |
| 48   | 18024        | BEARING CONTAINER GASKET                 | 3    |
| 49   | 10078        | KEY                                      | 1    |

## 12,000# WINCH ITEMS (BRADEN)

| ITEM | PART NO. | DESCRIPTION                 | QTY. |
|------|----------|-----------------------------|------|
| 50   | 18028    | DRUM, BRAKE                 | 1    |
| 51   | 12075    | SCREW, SET                  | 1    |
| 52   | 22703    | CAPSCREW                    | 4    |
| 53   | 13468    | JAM NUT                     | 4    |
| 54   | 18029    | BRAKE BAND SPRING           | 1    |
| 55   | 11240    | RETAINER RING               | 1    |
| 56   | 11130    | SHIFTER SHAFT               | 1    |
| 57   | 12817    | SHIFTER HANDLE              | 1    |
| 58   | 18056    | ROLLPIN                     | 1    |
| 59   | 13028    | ROLLPIN                     | 1    |
| 60   | 18002    | SPRING                      | 1    |
| 61   | 11837    | ROLLPIN                     | 2    |
| 62   | 13839    | SHIFTER FORK                | 1    |
| 63   | 22704    | CAPSCREW                    | 4    |
| 65   | 18044    | KEY (NOT SHOWN)             | 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    |

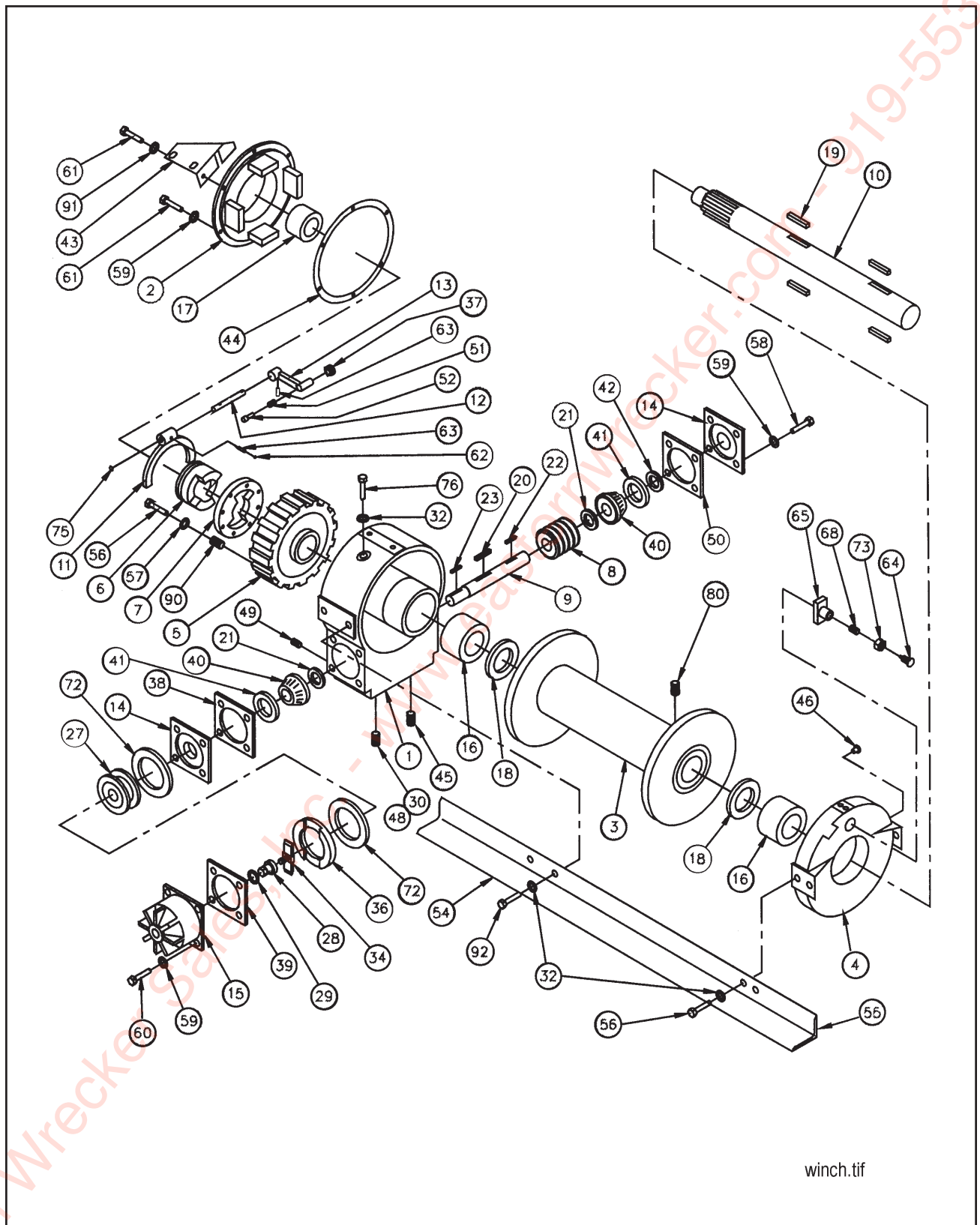


Figure 1-28 20,000# Winch Items (Braden Worm Gear)



## 20,000# WINCH ITEMS (BRADEN)

| 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    |



## 20,000# WINCH ITEMS (BRADEN)

| ITEM | PART NO. | DESCRIPTION                     | QTY. |
|------|----------|---------------------------------|------|
| 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   |
| 57   | 12781    | WASHER LOCK                     | 8    |
| 58   | 21044    | CAPSCREW                        | 4    |
| 59   | 11025    | WASHER LOCK                     | 3    |
| 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    | SHOE ASSEMBLY DRAG BRAKE        | 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    |

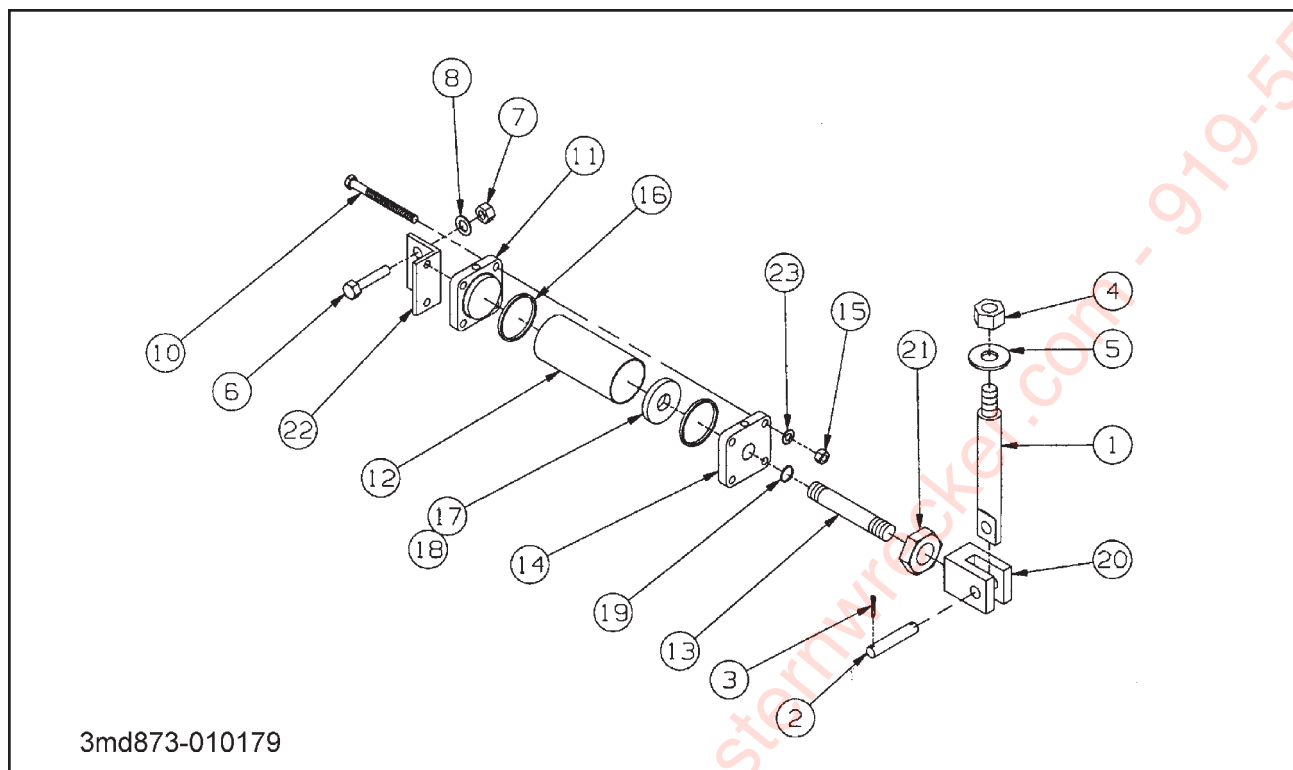


Figure 1-29 Winch Air Shift Cylinder for 20,000# Winch

## WINCH AIR SHIFT CYLINDER

| ITEM | PART NO.        | DESCRIPTION                                                             | QTY. |
|------|-----------------|-------------------------------------------------------------------------|------|
|      | 107368          | WINCH AIR SHIFT CYL 20M BRADEN<br>(WBR-716-MOD) (INCLUDES ITEMS 1 - 23) |      |
| 1    | 2390            | BRACKET                                                                 | 1    |
| 2    | 1976            | PIN                                                                     | 1    |
| 3    | 2356            | COTTER PIN                                                              | 1    |
| 4    | 1-512-010007-05 | NUT, HEX 1/4-20 GRB (1161)                                              | 1    |
| 5    | 1-861-010034-09 | WASHER SPLIT LOCK 1/4(1766)                                             | 1    |
| 6    | 1-654-010055-01 | SCREW, HEX HEAD CAP 1/2-13 X 1 GR5 (1486)                               | 2    |
| 7    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB (1211)                                         | 2    |
| 8    | 1-861-010032-14 | WASHER FLAT 1/2 (1210)                                                  | 2    |
| 9    | C2001           | CYLINDER (INCLUDES ITEMS 10 - 23)                                       | 1    |
| 10   | 1128            | CAP SCREW                                                               | 4    |
| 11   | 1272            | REAR COVER PLATE                                                        | 1    |
| 12   | 1277            | TUBE                                                                    | 1    |
| 13   | 2388            | PISTON ROD                                                              | 1    |
| 14   | 1271            | FRONT COVER PLATE                                                       | 1    |
| 15   | 1723            | NUT                                                                     | 4    |
| 16   | 1274            | BACK-UP-RING                                                            | 2    |
| 17   | 1275            | O-RING                                                                  | 1    |
| 18   | 1273            | PISTON                                                                  | 1    |
| 19   | 1276            | O-RING                                                                  | 1    |
| 20   | 1974            | CLEVIS                                                                  | 1    |
| 21   | 1224            | NUT                                                                     | 1    |
| 22   | 2389            | BRACKET                                                                 | 1    |
| 23   | 1766            | LOCKWASHER                                                              | 4    |
|      | 3-150-010186    | BUSHING WINCH REMOTE LEVER                                              | 1    |
|      | 3109            | O-RING KIT FOR CYLINDER                                                 |      |

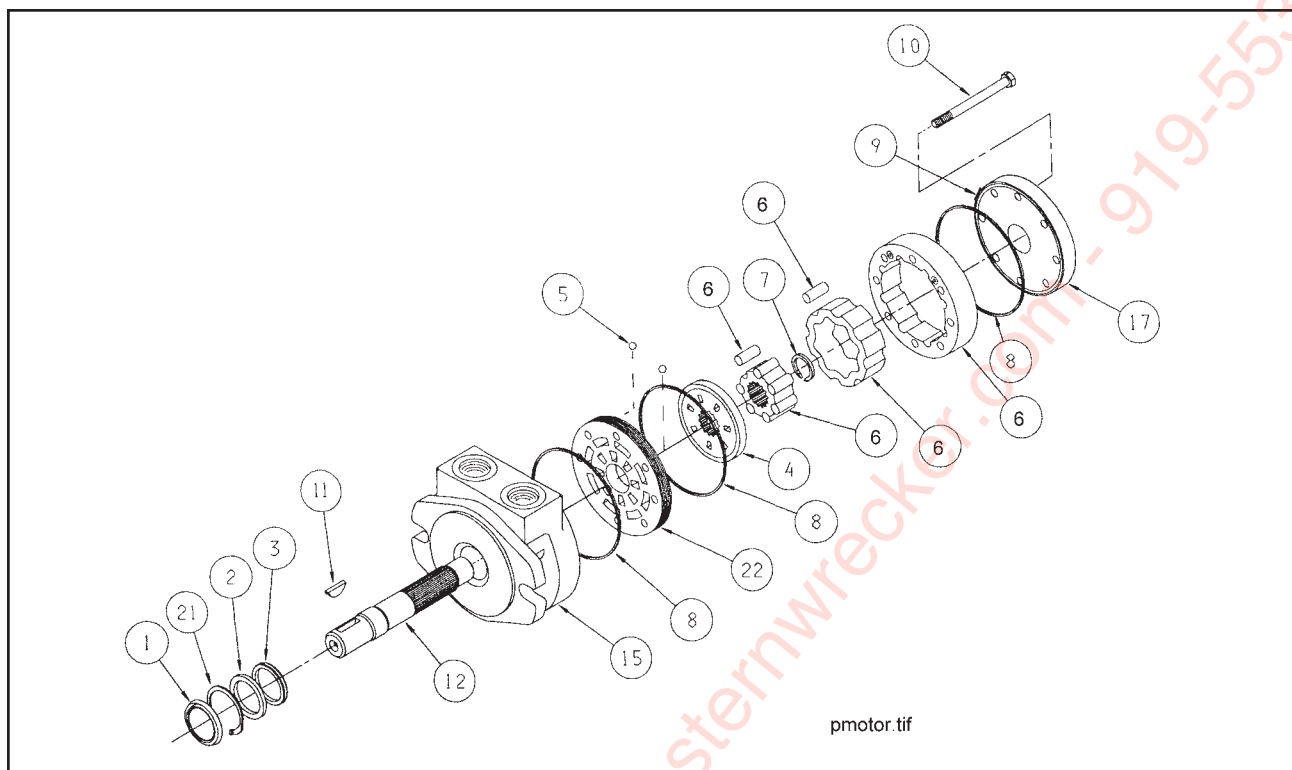


Figure 1-30 Winch Motor Assembly

## WINCH MOTOR ASSEMBLY (BRADEN)

| ITEM | PART NO.     | DESCRIPTION                       | QTY. |
|------|--------------|-----------------------------------|------|
|      | 3-481-010007 | MOTOR HYDRAULIC (FOR 20K WINCH)   | 1    |
|      | 3-481-010006 | MOTOR HYDRAULIC (FOR 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 (FOR 20K WINCH)          | 1    |
|      | 1004-3       | IGR ASSY (FOR 12K WINCH)          | 1    |
| 7    | 1296         | SNAP RING                         | 1    |
| 8    | 1046         | RING SEAL                         | 3    |
| 9    | 1019-4       | PLUG VENT W/O-RING                | 1    |
| 10   | 1014-4       | BOLTS HEX (FOR 20K WINCH)         | 8    |
|      | 1114-5       | BOLTS HEX (FOR 12K WINCH)         | 8    |
| 11   | 1655         | KEY WOODRUFF                      | 1    |
| 12   | 2265-6       | SHAFT (FOR 20K WINCH)             | 1    |
|      | 2109-3       | SHAFT (FOR 12K WINCH)             | 1    |
| 15   | M110AB-4     | BODY/BEARING ASSY (FOR 20K WINCH) | 1    |
|      | PA-2328-2    | BODY/BEARING ASSY (FOR 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    |

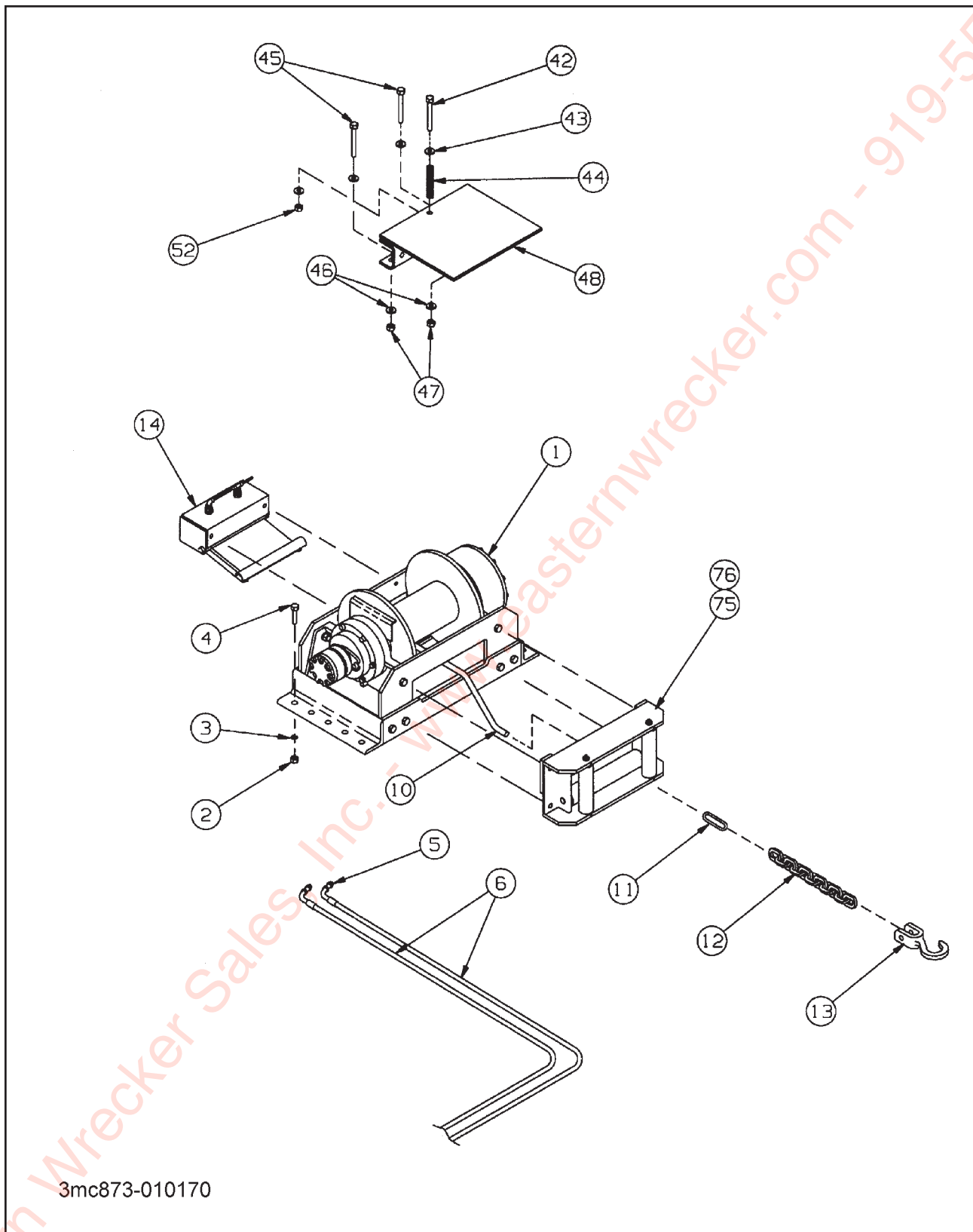


Figure 1-31 30K Upper Deck Winch (DP)  
(1 of 2)

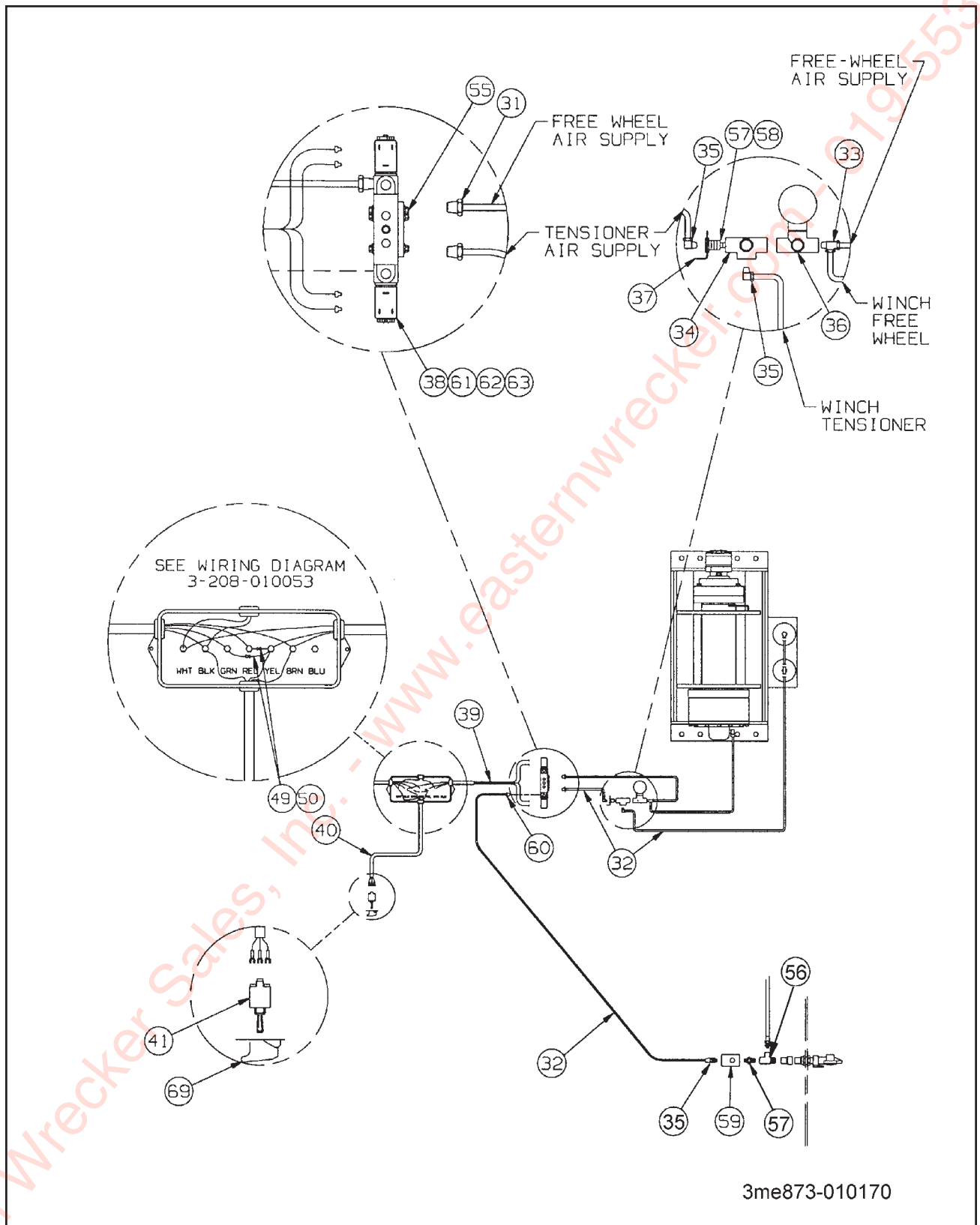


Figure 1-32 30K Upper Deck Winch (DP)  
(2 of 2)

## 30K UPPER DECK WINCH (DP)

| ITEM | PART NO.        | DESCRIPTION                                 | QTY.       |
|------|-----------------|---------------------------------------------|------------|
|      | 3-873-010170    | WINCH INSTALLATION 600-30K UPPER DECK       |            |
| 1    | 3-873-010173-01 | WINCH 30K ITEMS (SEE PAGE 1-63)             | 1          |
| 2    | 1-512-010005-15 | NUT HEX LOCK 3/4-10 GRB                     | 10         |
| 3    | 1-861-010034-17 | WASHER, SPLIT LOCK 3/4                      | 10         |
| 4    | 1-654-010061-07 | SCREW, HEX HEAD CAP 3/4-10X2-1/2 GR5        | 10         |
| 5    | 202702-8-8S     | ADAPTER #8 O-RING TO #8 TUBE                | 2          |
| 6    | 1-397-010302220 | HOSE ASSEMBLY                               | 2          |
| 10   | 3-153-010016-XX | CABLE ASSEMBLY 3/4 W/ LOOP                  | REF        |
| 11   | 3-174-010059    | CHAIN LINK 5/8                              | 1          |
| 12   | 3-174-010060036 | CHAIN GR 80                                 | 1          |
| 13   | 1-382-010035-06 | HOOK, CLEVIS                                | 1          |
| 14   | 3-873-010172    | WINCH CABLE AIR TENSION 30K (SEE PAGE 1-69) | *1         |
| 31   | 1-297-010007-04 | FITTING AIR                                 | *2, ***1   |
| 32   | 1-833-010001    | NYLON TUBING 1/4 OD                         | *34, ***34 |
| 33   | 1-297-010011-02 | FITTING, AIR TEE                            | *1         |
| 34   | 3-843-010039-02 | VALVE AIR SHUTTLE 1/4                       | *1         |
| 35   | 1-297-010008-07 | FITTING, AIR 90                             | 2          |
| 36   | 3-626-010004    | REGULATOR, AIR PRESSURE                     | *1         |
| 37   | 3-120-010445    | BRACKET, PRESSURE REGULATOR                 | *1         |
| 38   | 3-843-010022    | VALVE, PNEUMATIC                            | *1, ***1   |
| 39   | 3-368-010129    | HARNESS ASSY SINGLE REMOTE                  | *1, ***1   |
| 40   | 3-368-010187    | HARNESS REMOTE SWITCH                       | *1, ***1   |
| 41   | 1-765-010065    | TOGGLE SWITCH SPDT                          | *1, ***1   |
| 42   | 1-654-010055-17 | SCREW, HEX HEAD CAP 1/2-13X6 GR5            | ****1      |
| 43   | 1-861-010032-15 | WASHER FLAT 1/2                             | ****2      |
| 44   | 3-720-010010    | SPRING COMP LEVEL WIND                      | ****1      |
| 45   | 1-654-010059-05 | SCREW, HEX HEAD CAP 5/8-11X2 GR5            | ****2      |
| 46   | 1-861-010032-18 | WASHER, FLAT 5/8N                           | ****4      |
| 47   | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                    | ****2      |
| 48   | 111641          | WINCH TENSIONER WLDMT 30K                   | ****1      |
| 49   | 2-272-010109    | ZENOR DIODE                                 | ***2       |
| 50   | 3-272-010018    | TUBING HEAT SHRINK W/ SEALANT               | ***2       |
| 52   | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                    | ****1      |
| 55   | 3-136-010001-01 | BREATHING, PNEUMATIC EXHAUST                | ***2       |
| 56   | 1-297-010015-09 | FITTING AIR BR TEE                          | 1          |
| 57   | 1-297-010022-02 | FITTING, AIR ANCHOR                         | 1          |
| 58   | 1-297-010020-02 | FITTING, BRASS PIPE                         | 1          |
| 59   | 905-54-107      | BRAKE PROTECTION VALVE                      | ***1       |
|      | 48100200        | FILTER                                      | ***1       |
| 60   | 1-297-010008-05 | FITTING, AIR 90                             | ***1       |
| 61   | 1-654-010024014 | SCREW, MACH FIL #6-32X1-1/2                 | ***3       |
| 62   | 1-861-010032-01 | WASHER, FLAT #6                             | ***3       |
| 63   | 1-512-010003-02 | NUT, HEX LOCK #6-32                         | ***3       |
| 69   | 3-348-010048    | GUARD SWITCH - 3 POSITION                   | 1          |

## 30K UPPER DECK WINCH (DP)

| ITEM | PART NO.        | DESCRIPTION                                  | QTY. |
|------|-----------------|----------------------------------------------|------|
| 75   | 122333          | WINCH ROLL. GDE 30K PLNTY DP (SEE PAGE 1-67) | *1   |
| 76   | 1-654-010059-09 | SCREW HEX HEAD CAP 5/8-11 X 3 GR5            | *4   |

### NOTES:

- \* - FOR AIR TENSION OPTION.
- \*\* - FOR CABLE ROLLER OPTION.
- \*\*\* - FOR AIR SHIFT OPTION.
- \*\*\*\* - FOR SPRING TENSION OPTION.

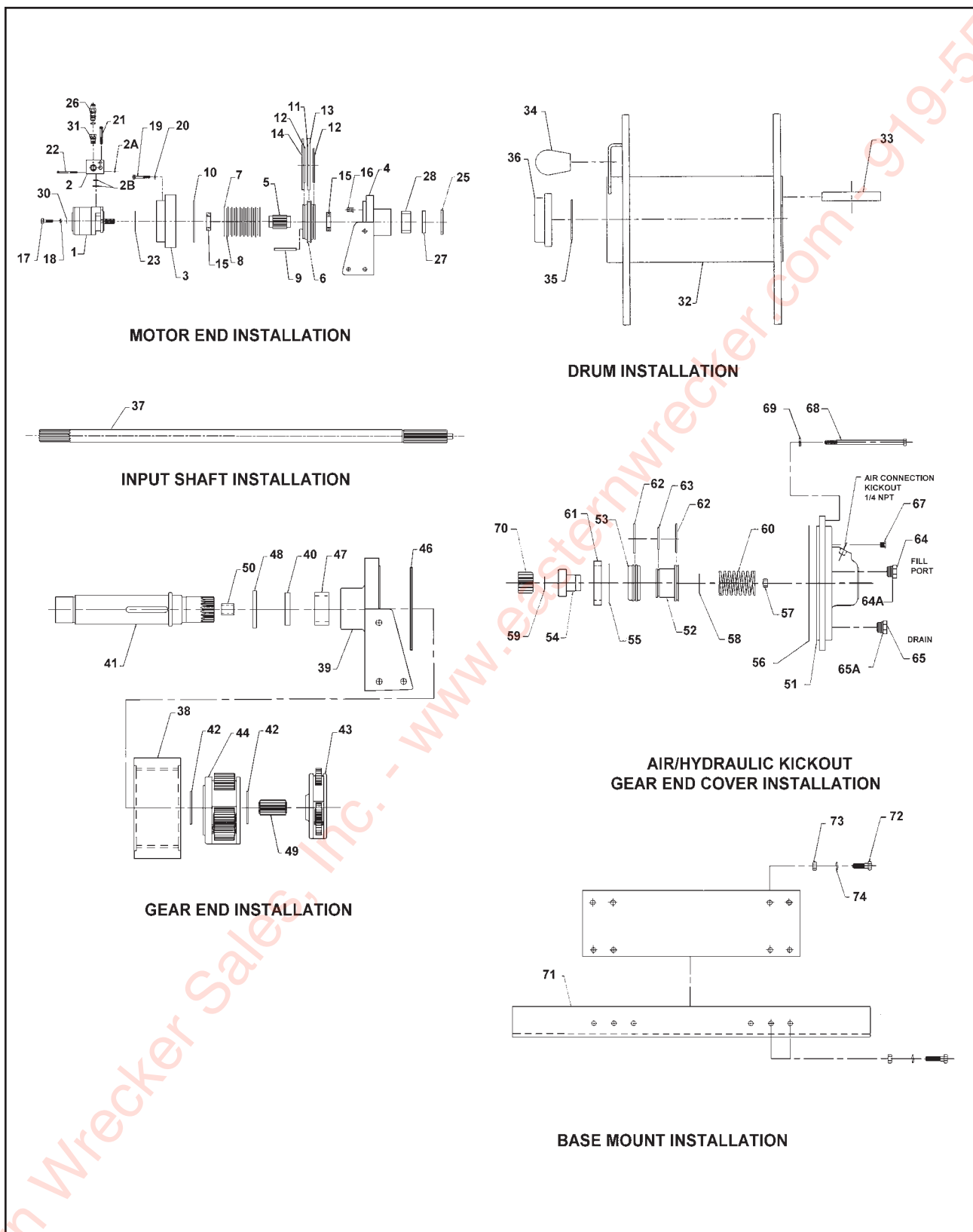


Figure 1-33 30,000# Winch Items (DP Planetary)



## 30,000# WINCH ITEMS (DP PLANETARY)

| ITEM                            | PART NO.        | DESCRIPTION                                    | QTY. |
|---------------------------------|-----------------|------------------------------------------------|------|
|                                 | 3-873-010173-01 | WINCH 30K ITEMS                                |      |
| <b>MOTOR END INSTALLATION</b>   |                 |                                                |      |
| 1                               | 73174           | MOTOR, HYDRAULIC                               | 1    |
| 2                               | 13330           | VALVE, COUNTERBALANCE                          | 1    |
| 2A                              | 9612            | O-RING, 1/8 I.D. X 3/32 SECTION                | 2    |
| 2B                              | 9972            | O-RING, 5/8 I.D. X 13/16 X 3/32 SECTION        | 2    |
| 3                               | 13316           | BRAKE HOUSING                                  | 1    |
| 4                               | 13299           | SUPPORT MOTOR END                              | 1    |
| 5                               | 11750           | SHAFT BRAKE                                    | 1    |
| 6                               | 11443           | PISTON BRAKE                                   | 1    |
| 7                               | 11603           | PLATE DISC FRICTION                            | 10   |
| 8                               | 3159            | PLATE DRIVE BRAKE                              | 9    |
| 9                               | 3263            | PIN DOWEL 5/16 DIA. X 3-1/2                    | 2    |
| 10                              | 9844            | O-RING, 7 O.D. X 6-3/4 I.D.                    | 1    |
| 11                              | 9853            | O-RING, 6-1/2 I.D. X 3/16 SECTION              | 1    |
| 12                              | 9851            | O-RING, 5-3/8 I.D. X 5-3/4 O.D. X 3/16 SECTION | 2    |
| 13                              | 9854            | RING, BACK-UP                                  | 1    |
| 14                              | 9852            | RING, BACK-UP 5-3/8 I.D.                       | 1    |
| 15                              | 81434           | BEARING BALL 1-3/4 I.D.                        | 2    |
| 16                              | 2319            | SPRING COMPRESSION                             | 12   |
| 17                              | 1402            | CAP SCREW HEX HEAD 1/2-13 X 1-1/4              | 2    |
| 18                              | 1495            | WASHER LOCK 1/2                                | 2    |
| 19                              | 1376            | SCREW CAP HEX HEAD 7/16 X 2-1/2                | 6    |
| 20                              | 1388            | WASHER LOCK 7/16                               | 6    |
| 21                              | 1188            | SCREW CAP SOCKET HEAD 5/16 X 3                 | 4    |
| 22                              | 4042            | SCREW CAP SOCKET HEAD 1/4-20 X 3-3/4           | 1    |
| 23                              | 9880            | O-RING 3 I.D. X 1/8 SECTION                    | 1    |
| 24                              | 10708           | TAG WARNING (NOT SHOWN)                        | 1    |
| 25                              | 9890            | SEAL SHAFT                                     | 1    |
| 26                              | 3177            | CARTRIDGE COUNTERBALANCE                       | 1    |
| 27                              | 13288           | WASHER THRUST BRONZE                           | 1    |
| 28                              | 81454           | BEARING -TORRINGTON                            | 1    |
| 30                              | 1498            | WASHER FLAT 1/2 SAE                            | 2    |
| 31                              | 13356           | ASSEMBLY PLUG                                  | 1    |
| <b>DRUM INSTALLATION</b>        |                 |                                                |      |
| 32                              | 13285           | DRUM                                           | 1    |
| 33                              | 11977           | KEY DRUM                                       | 2    |
| 34                              | 10525           | WEDGE CABLE 5/8                                | 1    |
| 35                              | 9672            | O-RING 2-5/8 ID X 1/8 W                        | 1    |
| 36                              | 13286           | SPACER                                         | 1    |
| <b>INPUT SHAFT INSTALLATION</b> |                 |                                                |      |
| 37                              | 13317           | SHAFT INPUT                                    | 1    |
| <b>GEAR END INSTALLATION</b>    |                 |                                                |      |
| 38                              | 3126            | GEAR RING                                      | 1    |
| 39                              | 13300           | SUPPORT GEAR END                               | 1    |

## 30,000# WINCH ITEMS (DP PLANETARY)

| ITEM                                                | PART NO. | DESCRIPTION                                  | QTY. |
|-----------------------------------------------------|----------|----------------------------------------------|------|
| 40                                                  | 13288    | WASHER THRUST                                | 1    |
| 41                                                  | 13301    | SHAFT OUTPUT                                 | 1    |
| 42                                                  | 13164    | WASHER THRUST NYLON 3-1/2 OD X 3/16 SECTION  | 2    |
| 43                                                  | 12486    | CARRIER ASSEMBLY PRIMARY                     | 1    |
| 44                                                  | 12516    | CARRIER ASSEMBLY SECONDARY                   | 1    |
| 45                                                  | 10848    | LABEL WARNING (NOT SHOWN)                    | 1    |
| 46                                                  | 9695     | O-RING 8-3/4 I.D. X 1/8 SECTION              | 1    |
| 47                                                  | 81454    | BEARING                                      | 1    |
| 48                                                  | 9890     | SEAL SHAFT                                   | 1    |
| 49                                                  | 13306    | GEAR SUN                                     | 1    |
| 50                                                  | 81608    | BUSHING ID 1-1/4 OD X 1 LG                   | 1    |
| <b>AIR/HYD. KICKOUT GEAR END COVER INSTALLATION</b> |          |                                              |      |
| 51                                                  | 13675    | COVER GEAR END                               | 1    |
| 52                                                  | 13295    | PISTON AKO B/C/D                             | 1    |
| 53                                                  | 13296    | CYLINDER PISTON                              | 1    |
| 54                                                  | 13297    | COUPLING DRIVE                               | 1    |
| 55                                                  | 3632     | RING RETAINING RD SEC 3 O.D. X .10 SEC       | 1    |
| 56                                                  | 9695     | O-RING 8-3/4 I.D. X 1/8 SECTION              | 1    |
| 57                                                  | 81612    | BUSHING BRONZE 3/8 I.D. X 3/8 L              | 1    |
| 58                                                  | 3303     | RING RETAINING 1-1/4                         | 1    |
| 59                                                  | 3321     | RING RETAINING RD SEC .805 I.D.              | 1    |
| 60                                                  | 2309     | SPRING COMPRESSION                           | 1    |
| 61                                                  | 13288    | WASHER THRUST BRONZE 3.81 X .406 W           | 1    |
| 62                                                  | 9672     | O-RING 2-5/8 I.D. X 1/8 SECTION              | 2    |
| 63                                                  | 9704     | O-RING 2-1/8 I.D. X 2-3/8 O.D.               | 1    |
| 64                                                  | 76344    | PLUG SKT HD O-RING #10 7/8 - 14              | 1    |
| 64A                                                 | 9992     | O-RING .755 I.D. X .097 W 3-910              | 1    |
| 65                                                  | 76343    | PLUG SKT HD O-RING MAG #10                   | 1    |
| 65A                                                 | 9992     | O-RING .755 I.D. X .097 W 3-910              | 1    |
| 66                                                  | 1157     | CAPLUG #4 RED (NOT SHOWN)                    | 1    |
| 67                                                  | 3059     | RELIEF VENT                                  | 1    |
| 68                                                  | 1317     | SCREW CAP HEX HEAD 3/8 X 16 X 5-1/2          | 12   |
| 69                                                  | 1395     | WASHER LOCK 3/8                              | 12   |
| 70                                                  | 13235    | GEAR SUN AKO                                 | 1    |
| <b>BASE MOUNT INSTALLATION</b>                      |          |                                              |      |
| 71                                                  | 14068    | BASE MOUNT CUSTOM - B SERIES - A LENGTH      | 2    |
| 72                                                  | 1505     | SCREW CAP HEX HAD 5/8-11 X 2-1/4 GR5         | 12   |
| 73                                                  | 1590     | NUT HEX 5/8 - 11 GR2                         | 12   |
| 74                                                  | 1595     | WASHER LOCK 5/8 MEDIUM PLAIN                 | 12   |
| 75                                                  | 1165     | RIVET DRIVE U TYPE #2 X 1/4 LONG (NOT SHOWN) | 4    |
| 76                                                  | 10466    | PLATE INFORMATION (NOT SHOWN)                | 1    |

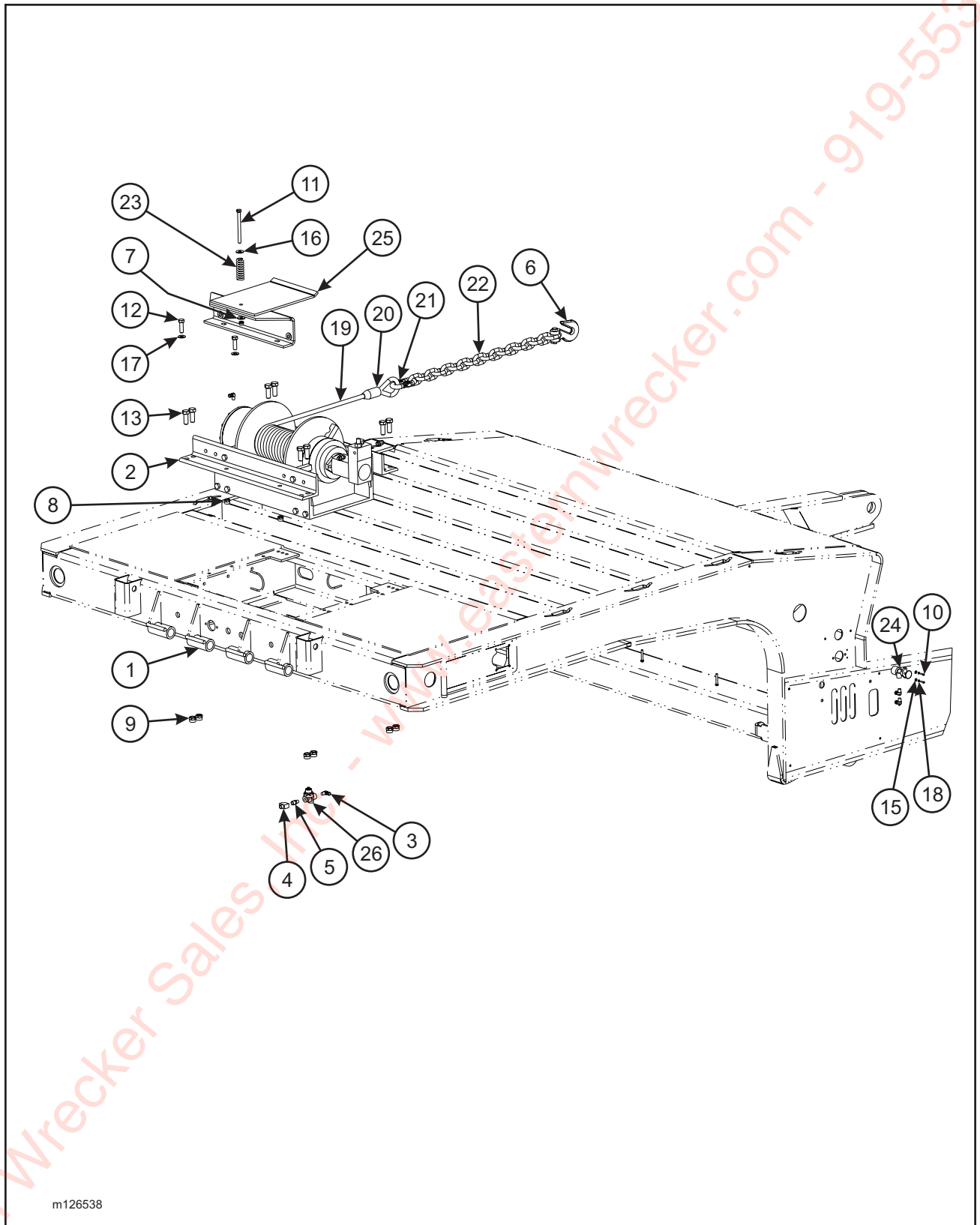


Figure 1-34 30K Upper Deck Winch (DP)

## WINCH INSTALLATION 30K DP SPG TENSION A/R

| ITEM | PART NO.        | DESCRIPTION                                  | QTY. |
|------|-----------------|----------------------------------------------|------|
|      | 126538          | WINCH INSTALLATION 30K DP SPRING TENSION A/R |      |
| 1    | 126539          | FRAME MOD 30K DP G/N                         | REF  |
| 2    | 126580          | WINCH MOD 30K DP AIR RELEASE (SEE PAGE 1-63) | 1    |
| 3    | 1-297-010008-07 | FITTING, AIR 90                              | 4    |
| 4    | 1-297-010018-03 | FITTING, 1/4 TEE                             | REF  |
| 5    | 1-297-010019-05 | FITTING, BRS PIPE HEX 3/8 X 1/4              | 1    |
| 6    | 1-382-010035-06 | HOOK, CLEVIS GRAB 5/8 GR80                   | 1    |
| 7    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                     | 1    |
| 8    | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                     | 2    |
| 9    | 1-512-010005-15 | NUT, HEX LOCK 3/4-10 GRB                     | 8    |
| 10   | 1-654-010024079 | SCREW, MACH FILLISTER #10-32 X 3/4           | 2    |
| 11   | 1-654-010055-17 | SCREW, HEX HEAD CAP 1/2-13 X 6 GR5           | 1    |
| 12   | 1-654-010059-05 | SCREW, HEX HEAD CAP 5/8-11 X 2 GR5           | 2    |
| 13   | 1-654-010061-05 | SCREW, HEX HEAD CAP 3/4-10 X 2 GR5           | 8    |
| 14   | 1-833-010001    | TUBING, NYLON 1/4 (NOT SHOWN)                | 1    |
| 15   | 1-861-010032-03 | WASHER, FLAT #10                             | 2    |
| 16   | 1-861-010032-15 | WASHER, FLAT 1/2W                            | 2    |
| 17   | 1-861-010032-18 | WASHER, FLAT 5/8N                            | 4    |
| 18   | 1-861-010034-07 | WASHER, SPLIT LOCK #10                       | 2    |
| 19   | 202702-8-8S     | ADAPTER                                      | 2    |
| 20   | 3-153-010016-XX | CABLE ASSEMBLY 3/4                           | REF  |
| 21   | 3-174-010059    | CHAIN LINK CONNECTING 5/8                    | 1    |
| 22   | 3-174-010060036 | CHAIN, 5/8 X 36 GRADE 80                     | 1    |
| 23   | 3-720-010010    | SPRING, COMPRESSION                          | 1    |
| 24   | 3-843-010008    | VALVE, AIR 3 WAY 2 POS PUSH-PULL             | 1    |
| 25   | 3-876-010017    | WINCH TENSIONER WELDMENT 30K                 | 1    |
| 26   | 905-54-107      | BRAKE PROTECTION VALVE                       | 1    |
| 27   | 1-397-010302220 | HOSE ASSEMBLY 1/2 X 220 (NOT SHOWN)          | 2    |

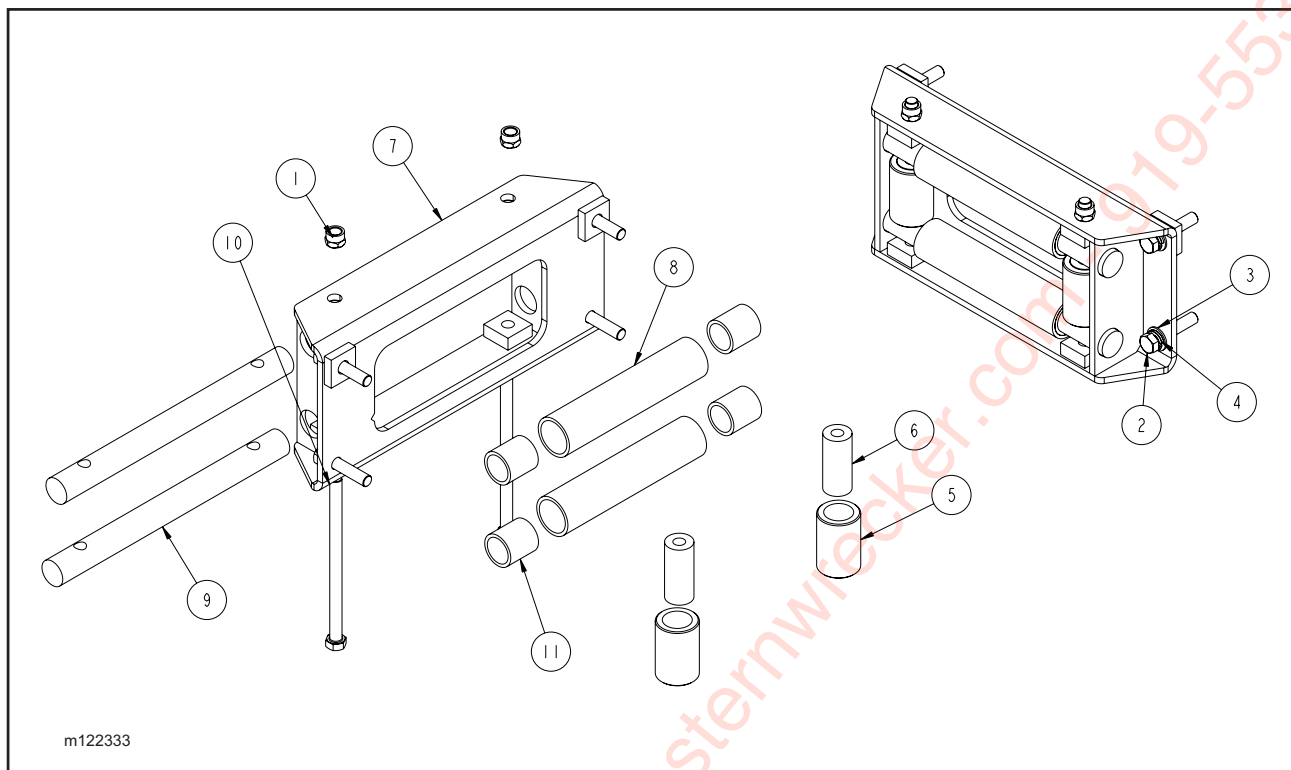
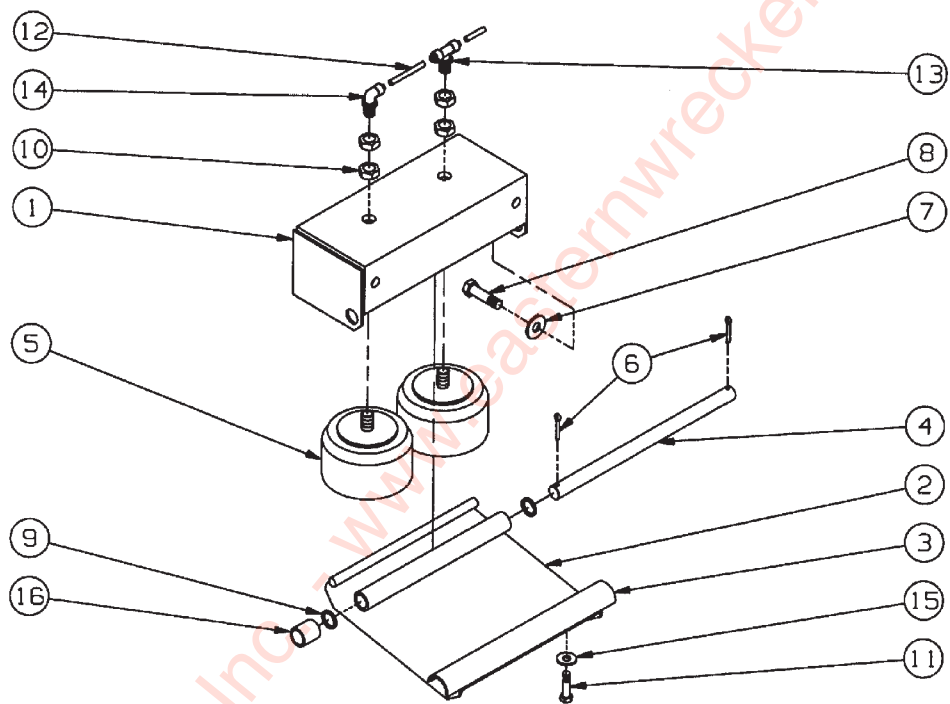


Figure 1-35 Winch Roller Guide - 30K

## WINCH ROLLER GUIDE -30K (DP)

| ITEM | PART NO.        | DESCRIPTION                           | QTY. |
|------|-----------------|---------------------------------------|------|
|      | 122333          | WINCH ROLLER GUIDE - 30K PLNTY DP-600 |      |
| 1    | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB              | 2    |
| 2    | 1-654-010059-09 | SCREW, HEX HEAD CAP 5/8-11 X 3 GR5    | 4    |
| 3    | 1-861-010032-18 | WASHER, FLAT 5/8N                     | 4    |
| 4    | 1-861-010034-15 | WASHER, SPLIT LOCK 5/8                | 4    |
| 5    | 111385          | TUBE VERTICAL ROLLER FAIRLEAD         | 2    |
| 6    | 111386          | BUSHING FAIRLEAD VERT ROLLER          | 2    |
| 7    | 122334          | MOUNT WELDMENT                        | 1    |
| 8    | 122336          | TUBE, HORIZ ROLLER                    | 2    |
| 9    | 122337          | ROD, ROLLER                           | 2    |
| 10   | 122458          | SCREW, HEX HEAD CAP 5/8-11 X 10 GR8   | 2    |
| 11   | AA-1807         | SLEEVE, BEARING 1-1/2D X 1-7/8OD X 2  | 4    |



3mb873-010172

Figure 1-36 Winch, Cable Air Tension (DP)

## WINCH, CABLE AIR TENSION (DP)

| ITEM | PART NO.     | DESCRIPTION                    | QTY. |
|------|--------------|--------------------------------|------|
|      | 3-873-010172 | WINCH, CABLE AIR TENSION (30K) |      |
| 1    | 52859        | MOUNTING BRACKET               | 1    |
| 2    | 13969        | ARM                            | 1    |
| 3    | 13996        | RUB BAR                        | 1    |
| 4    | 13968        | PIVOT PIN                      | 1    |
| 5    | 3445         | AIR CUSHIONS                   | 2    |
| 6    | 1027         | COTTER PIN                     | 2    |
| 7    | 1495         | WASHER                         | 2    |
| 8    | 1401         | CAPSCREW                       | 2    |
| 9    | 13063        | WASHER                         | 2    |
| 10   | 1589         | JAM NUT                        | 4    |
| 11   | 1166         | CAPSCREW                       | 2    |
| 12   | 69095        | TUBING                         | REF  |
| 13   | 78402        | ADAPTER TEE                    | 1    |
| 14   | 78403        | ADAPTER TUBE                   | 1    |
| 15   | 1168         | WASHER                         | 2    |
| 16   | 13973        | SPACER                         | 1    |

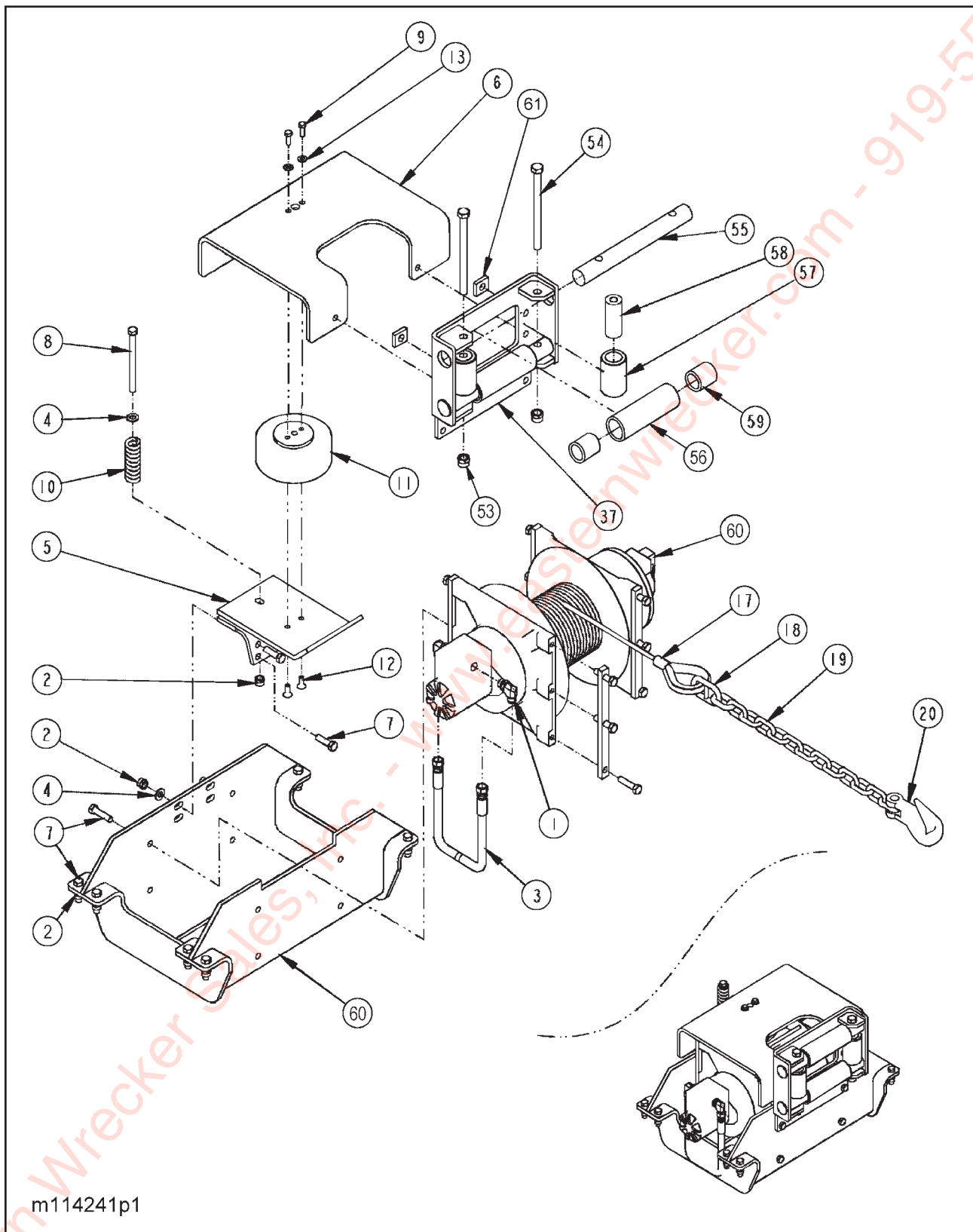


Figure 1-37 12K, 15K, & 20K Upper Deck Winch (DP)  
(1 of 2)



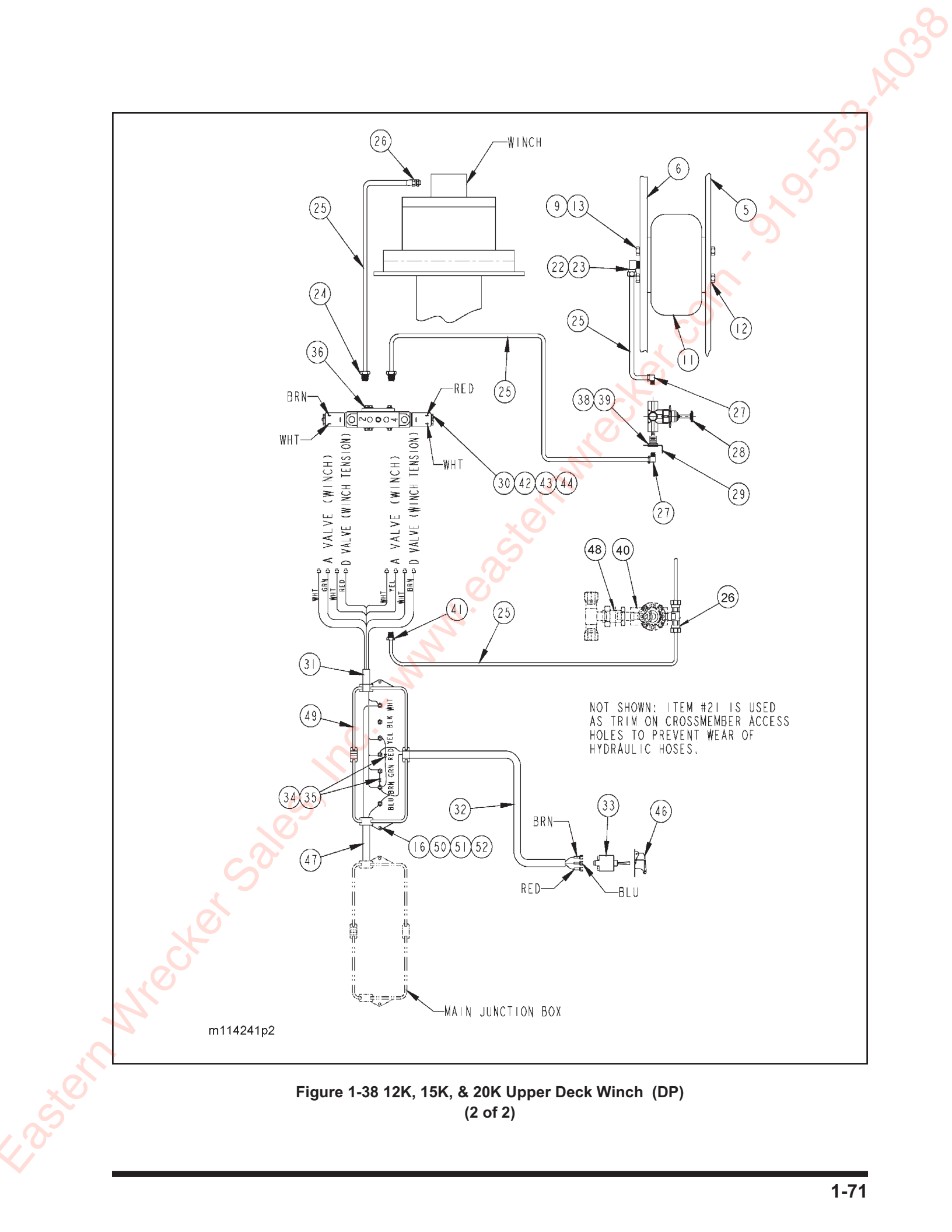


Figure 1-38 12K, 15K, & 20K Upper Deck Winch (DP)  
(2 of 2)

## 12K, 15K, & 20K UPPER DECK WINCH (DP)

| ITEM | PART NO.        | DESCRIPTION                                                         | QTY. |
|------|-----------------|---------------------------------------------------------------------|------|
|      | 114241          | WINCH INSTALLATION 12K, 15K, 20K DP                                 |      |
|      | 111351          | WINCH ROLLER GUIDE DP WINCH (OPTION)<br>(INCL. ITEMS 37, 53-59, 61) |      |
| 1    | 2062-8-8S       | ADAPTER 90                                                          | 2    |
| 2    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13                                                | 13   |
| 3    | 1-397-010301208 | HOSE ASSEMBLY 1/2 X 208                                             | 2    |
| 4    | 1-861-010032-14 | WASHER, FLAT 1/2                                                    | 5    |
| 5    | 106379          | WINCH TENSIONER WLDMT                                               | 1    |
| 6    | 106385          | PLATE AIR TENSION (*)                                               | 1    |
| 7    | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5                              | 12   |
| 8    | 1-654-010055-17 | SCREW, HEX HEAD CAP 1/2 -13 X 6 GR5                                 | 1    |
| 9    | 1-654-010036-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR8 (*)                              | 2    |
| 10   | 3-720-010010    | SPRING COMP LEVEL WIND                                              | 1    |
| 11   | 3-720-010042    | SPRING, AIR 6-1/2 (*)                                               | 1    |
| 12   | 1-654-010141-04 | SCREW, SOCKET HEAD CTSK 3/8-16 X 1 GR8 (*)                          | 2    |
| 13   | 1-861-010032-10 | WASHER, FLAT 3/8 (*)                                                | 2    |
| 16   | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5 (*)                              | 2    |
| 17   | 3-155-010018    | CABLE, 5/8 W/ LOOP(20K)                                             | REF  |
|      | 3-155-010017-4  | CABLE, 1/2 W/ LOOP 85 FT (12K AND 15K)                              | REF  |
| 18   | 3-174-010038    | CHAIN LINK, CONNECTING 1/2                                          | 1    |
| 19   | 3-174-010039036 | CHAIN, 1/2 X 36 GR7                                                 | 1    |
| 20   | 7HCGHT500       | 1/2 CLEVIS GRAB HOOK                                                | 1    |
| 21   | 3-201-010001036 | CONDUIT PLASTIC FLEX (*) (NOT SHOWN)                                | 1    |
| 22   | 1-297-010031-02 | FITTING, BRASS PIPE (*)                                             | 1    |
| 23   | 1-297-010032-03 | FITTING, AIR 90 (*)                                                 | 1    |
| 24   | 1-297-010007-04 | FITTING, AIR (*)                                                    | 2    |
| 25   | 1-833-010001    | TUBING, NYLON 1/4 (*)                                               | AR   |
| 26   | 1-297-010007-05 | FITTING, AIR 1/4 (*)                                                | 1    |
| 27   | 1-297-010008-07 | FITTING, AIR 90 (*)                                                 | 2    |
| 28   | 3-626-010004    | REGULATOR, AIR PRESSURE (*)                                         | 1    |
| 29   | 3-120-010445    | BRACKET, PRESSURE REGULATOR (*)                                     | 1    |
| 30   | 3-843-010022    | VALVE, PNEUMATIC 4 WAY (*)                                          | 1    |
| 31   | 3-368-010125    | HARNESS ASSEMBLY (*)                                                | 1    |
| 32   | 3-368-010187    | HARNESS, REMOTE SWITCH (*)                                          | 1    |
| 33   | 1-765-010065    | TOGGLE SWITCH SPDT (*)                                              | 1    |
| 34   | 3-272-010109    | ZENOR DIODE (* W/ REMOTE)                                           | 2    |
| 35   | 3-272-010018    | HEAT SHRINK INSULATOR (* W/ REMOTE)                                 | 2    |
| 36   | 3-136-010001-01 | BREATHER, PNEUMATIC EXHAUST (* W/O REMOTE)                          | 2    |
| 37   | 111387          | BRACKET WELDMENT FAIRLEAD                                           | 1    |
| 38   | 1-297-010022-02 | FITTING, AIR ANCHOR (*)                                             | 1    |
| 39   | 1-297-010020-02 | FITTING BRASS PIPE (*)                                              | 1    |
| 40   | 905-54-107      | VALVE & FILTER PRESSURE (*)                                         | REF  |
| 41   | 1-297-010008-05 | FITTING, AIR 90 (*)                                                 | 1    |
| 42   | 1-654-010024014 | SCREW, MACH SLOT FIL HEAD #6-32 X 1-1/2<br>(* W/O REMOTE)           | 2    |
| 43   | 1-861-010032-01 | WASHER, FLAT #6 (* W/O REMOTE)                                      | 2    |
| 44   | 1-512-010003-02 | NUT, HEX LOCK #6-32 (* W/O REMOTE)                                  | 2    |

## 12K, 15K, & 20K UPPER DECK WINCH (DP)

| ITEM | PART NO.        | DESCRIPTION                          | QTY. |
|------|-----------------|--------------------------------------|------|
| 46   | 3-348-010048    | GUARD, SWITCH - 3 POSITION (*)       | 1    |
| 47   | 3-368-010188    | HARNESS, POWER JUMPER (*)            | 1    |
| 48   | 1-297-010019-05 | FITTING, BR                          | REF  |
| 49   | 750-029         | JUNCTION BOX 7 STUD (*)              | 1    |
| 50   | 1-512-010007-05 | NUT, HEX 1/4-20 GRB (*)              | 2    |
| 51   | 1-861-010032-06 | WASHER, FLAT 1/4N (*)                | 2    |
| 52   | 1-861-010034-09 | WASHER, SPLIT LOCK 1/4 (*)           | 2    |
| 53   | 100827          | NUT, FLANGE HEAD SERRATED 5/8-11 GRB | 4    |
| 54   | 1-654-010059-21 | SCREW, HEX HEAD CAP 5/8-11 X 8       | 2    |
| 55   | 111383          | ROD FAIRLEAD ROLLER                  | 2    |
| 56   | 111384          | TUBE HORIZONTAL ROLLER FAIRLEAD      | 2    |
| 57   | 111385          | TUBE, VERTICAL ROLLER FAIRLEAD       | 2    |
| 58   | 111386          | BUSHING, FAIRLEAD VERT ROLLER        | 2    |
| 59   | 3-150-010005    | 1-1/2 ID BRONZE SLEEVE BEARING       | 2    |
| 60   | 111091          | WINCH DP 12K MANUAL                  | 1    |
|      | 111092          | WINCH DP 12K AIR                     | 1    |
|      | 111093          | WINCH DP 15K MANUAL                  | 1    |
|      | 111094          | WINCH DP 15K AIR                     | 1    |
|      | 111095          | WINCH DP 20K MANUAL                  | 1    |
|      | 111096          | WINCH DP 20K AIR                     | 1    |
|      |                 | (SEE PAGE 1-75 FOR WINCH BREAKDOWNS) |      |
| 61   | 3-711-010120    | SPACER, TOOL BOX 3/8 X 1-1/2         | 2    |

\* USED ON AIR TENSION RELEASE MODELS

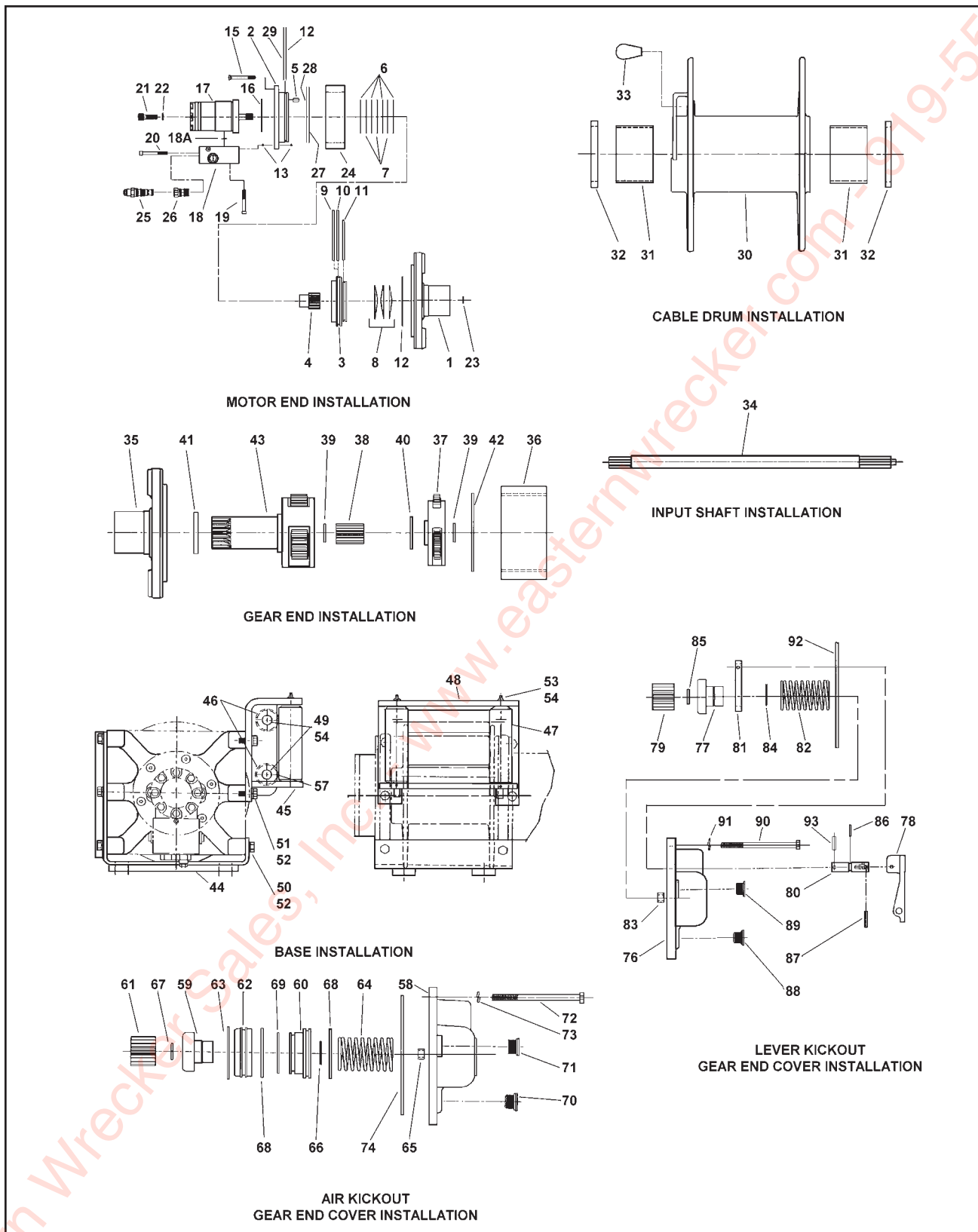


Figure 1-39 12K, 15K, & 20K Winch Items (DP Planetary)

## 12K, 15K, & 20K WINCH ITEMS (DP PLANETARY)

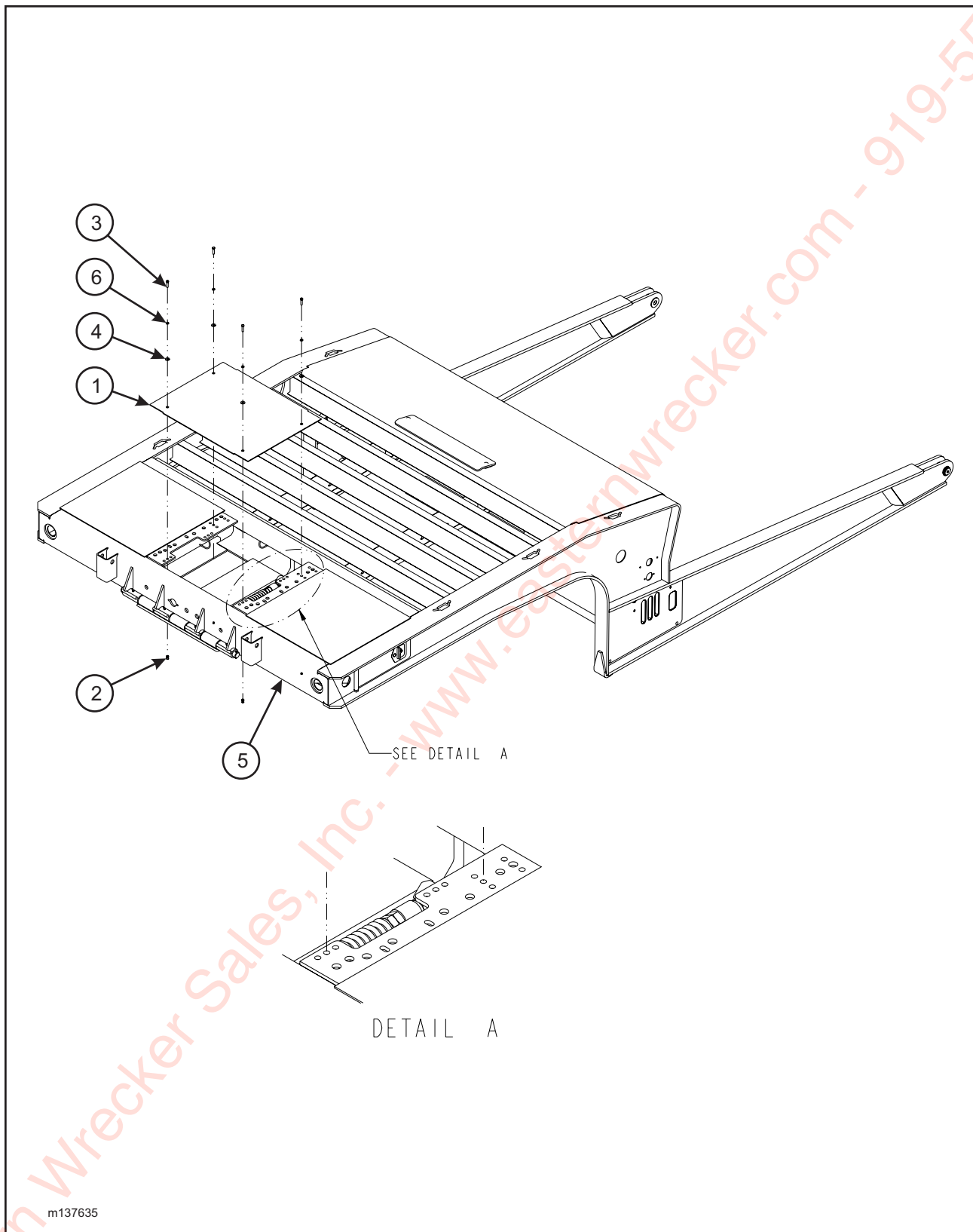
| ITEM | PART NO. | DESCRIPTION                               | QTY. |
|------|----------|-------------------------------------------|------|
|      | 111091   | WINCH DP 12K MANUAL                       |      |
|      | 111092   | WINCH DP 12K AIR                          |      |
|      | 111093   | WINCH DP 15K MANUAL                       |      |
|      | 111094   | WINCH DP 15K AIR                          |      |
|      | 111095   | WINCH DP 20K MANUAL                       |      |
|      | 111096   | WINCH DP 20K AIR                          |      |
|      |          | MOTOR END INSTALLATION                    |      |
| 1    | 13620    | SUPPORT, MOTOR END                        | 1    |
| 2    | 13602    | ADAPTER, MOTOR                            | 1    |
| 3    | 13603    | PISTON, BRAKE                             | 1    |
| 4    | 13601    | SHAFT, BRAKE                              | 1    |
| 5    | 3437     | PIN, DOWEL - 3/8 X 5/8                    | 3    |
| 6    | 13035    | PLATE, FRICTION - BRAKE                   | 4    |
| 7    | 13034    | PLATE, STATIONARY - BRAKE                 | 3    |
| 8    | 3607     | SPRING                                    | 3    |
| 9    | 9851     | O-RING                                    | 1    |
| 10   | 9852     | RING, BACKUP                              | 1    |
| 11   | 9709     | O-RING                                    | 1    |
| 12   | 9843     | O-RING                                    | 2    |
| 13   | 9612     | O-RING                                    | 2    |
| 14   | 3440     | PLUG, EXPANDER (NOT SHOWN)                | 2    |
| 15   | 4346-8   | CAP SCREW, SOCKET HEAD FLAT 3/8NC X 3 GR8 | 6    |
| 16   | 9637     | O-RING                                    | 1    |
| 17   |          | MOTOR, HYDRAULIC (12K)                    | 1    |
|      | 112641   | MOTOR, HYDRAULIC (15K)                    | 1    |
|      |          | MOTOR, HYDRAULIC (20K)                    | 1    |
| 18   | 13894    | VALVE ASSEMBLY, COUNTERBALANCE            | 1    |
| 18A  | 9821     | O-RING                                    | 2    |
| 19   | 1167     | CAP SCREW SOCKET HEAD 5/16-18 X 2         | 4    |
| 20   | 4076     | CAP SCREW SOCKET HEAD 1/4-20 X 4-1/2      | 1    |
| 21   | 1454     | CAP SCREW SOCKET HEAD 1/2-13 X 1-1/4      | 2    |
| 22   | 1144     | WASHER LOCK 1/2 HI COLLAR                 | 2    |
| 23   | 3460     | RING, RETAINER 3/4 X .035T                | 2    |
| 24   | 13621    | SLEEVE, ADAPTER                           | 1    |
| 25   | 70040    | CARTRIDGE                                 | 1    |
| 26   | 70042    | PLUG, SUN                                 | 1    |
| 27   | 9600     | O-RING                                    | 1    |
| 28   | 9711     | RING, BACKUP                              | 1    |
| 29   | 9846     | RING, BACKUP                              | 1    |
|      |          | CABLE DRUM INSTALLATION                   |      |
| 30   | 12401    | DRUM                                      | 1    |
| 31   | 11947    | BEARING - BRONZE                          | 2    |
| 32   | 9929     | SEAL SHAFT                                | 2    |
| 33   | 10529    | WEDGE - CABLE 7/16                        | 1    |

## 12K, 15K, & 20K WINCH ITEMS (DP PLANETARY)

| ITEM                                      | PART NO. | DESCRIPTION                          | QTY. |
|-------------------------------------------|----------|--------------------------------------|------|
| INPUT SHAFT INSTALLATION                  |          |                                      |      |
| 34                                        | 13678    | INPUT SHAFT                          | 4    |
| GEAR END INSTALLATION                     |          |                                      |      |
| 35                                        | 13605    | SUPPORT, END GEAR                    | 1    |
| 36                                        | 81107    | GEAR - RING                          | 1    |
| 37                                        | 3412     | CARRIER, PRIMARY                     | 1    |
| 38                                        | 13380    | GEAR, SUN                            | 1    |
| 39                                        | 13385    | WASHER, THRUST                       | 2    |
| 40                                        | 12083    | WASHER, THRUST NYLON J               | 1    |
| 41                                        | 13164    | WASHER, THRUST NYLON                 | 1    |
| 42                                        | 9897     | O-RING                               | 1    |
| 43                                        | 13379    | CARRIER ASSEMBLY, SECONDARY          | 1    |
| BASE MOUNT INSTALLATION                   |          |                                      |      |
| 44                                        | 13599    | BASE, MOUNTING                       | 1    |
| 45                                        | 13746    | BRACKET, MOUNTING                    | 1    |
| 46                                        | 13400    | ROLLER, VERTICAL                     | 2    |
| 47                                        | 12048    | ROLLER, VERTICAL BUMPER              | 2    |
| 48                                        | 12043    | SHAFT, ROLLER VERTICAL, BUMPER       | 2    |
| 49                                        | 13403    | SHAFT ROLLER VERTICAL 7/8 X 9-3/8    | 2    |
| 50                                        | 1401     | CAP SCREW, HEX HEAD 1/2-13NC X 1     | 8    |
| 51                                        | 1402     | CAP SCREW, HEX HEAD 1/2-13NC X 1-1/4 | 4    |
| 52                                        | 1495     | WASHER, LOCK 1/2                     | 12   |
| 53                                        | 1000     | FITTING, GREASE STR 1/8              | 4    |
| 54                                        | 81611    | BUSHING, BRONZE                      | 8    |
| 55                                        | 12113    | PLATE, ID WINCH (NOT SHOWN)          | 1    |
| 56                                        | 1165     | RIVET, TYPE U (NOT SHOWN)            | 4    |
| 57                                        | 3456     | PIN, SPRING 3/16 X 13/16             | 4    |
| GEAR END COVER INSTALLATION - AIR KICKOUT |          |                                      |      |
| 58                                        | 13370    | COVER, GEAR END                      | 1    |
| 59                                        | 13372    | COUPLING, DRIVE                      | 1    |
| 60                                        | 13373    | PISTON - AKO                         | 1    |
| 61                                        | 13386    | GEAR, SUN                            | 1    |
| 62                                        | 13296    | CYLINDER, PISTON                     | 1    |
| 63                                        | 3632     | RING, RETAINING ROUND                | 1    |
| 64                                        | 2309     | SPRING, COMPRESSION                  | 1    |
| 65                                        | 81612    | BUSHING, BRONZE                      | 1    |
| 66                                        | 3303     | RING, RETAINER                       | 1    |
| 67                                        | 3321     | RING, RETAINER                       | 1    |
| 68                                        | 9672     | O-RING                               | 2    |
| 69                                        | 9704     | O-RING                               | 1    |
| 70                                        | 76343    | PLUG, SOCKET HEAD MAGNETIC #10       | 1    |
| 71                                        | 76344    | PLUG, O-RING, SOCKET HEAD 7/8-14     | 1    |
| 72                                        | 3004     | CAP SCREW, HEX HEAD 5/16-18 X 4-3/4  | 8    |
| 73                                        | 1168     | WASHER, LOCK 5/16                    | 8    |

## 12K, 15K, & 20K WINCH ITEMS (DP PLANETARY)

| ITEM                                        | PART NO. | DESCRIPTION                         | QTY. |
|---------------------------------------------|----------|-------------------------------------|------|
| 74                                          | 9897     | O-RING                              | 1    |
| 75                                          | 1157     | CAPLUG (NOT SHOWN)                  | 1    |
| GEAR END COVER INSTALLATION - LEVER KICKOUT |          |                                     |      |
| 76                                          | 14182    | COVER, GEAR END                     | 1    |
| 77                                          | 13372    | COUPLING, DRIVE                     | 1    |
| 78                                          | 14099    | LEVER, KICKOUT                      | 1    |
| 79                                          | 13386    | GEAR, SUN                           | 1    |
| 80                                          | 14181    | SHAFT, SIFTER                       | 1    |
| 81                                          | 14183    | YOKE, OVAL SHIFT                    | 1    |
| 82                                          | 2309     | SPRING, COMPRESSION                 | 1    |
| 83                                          | 81612    | BUSHING, BRONZE                     | 1    |
| 84                                          | 3303     | RING, RETAINER                      | 1    |
| 85                                          | 3321     | RING, RETAINER                      | 1    |
| 86                                          | 9739     | O-RING                              | 1    |
| 87                                          | 3705     | PIN, SPRING 3/16 X 1-1/9            | 1    |
| 88                                          | 76343    | PLUG, SOCKET HEAD MAGNETIC #10      | 1    |
| 89                                          | 76344    | PLUG, O-RING, SOCKET HEAD 7/8-14    | 1    |
| 90                                          | 3004     | CAP SCREW, HEX HEAD 5/16-18 X 4-3/4 | 8    |
| 91                                          | 1168     | WASHER, LOCK 5/16                   | 8    |
| 92                                          | 9897     | O-RING                              | 1    |
| 93                                          | 3456     | PIN, SPRING 3/16 X 13/16            | 1    |

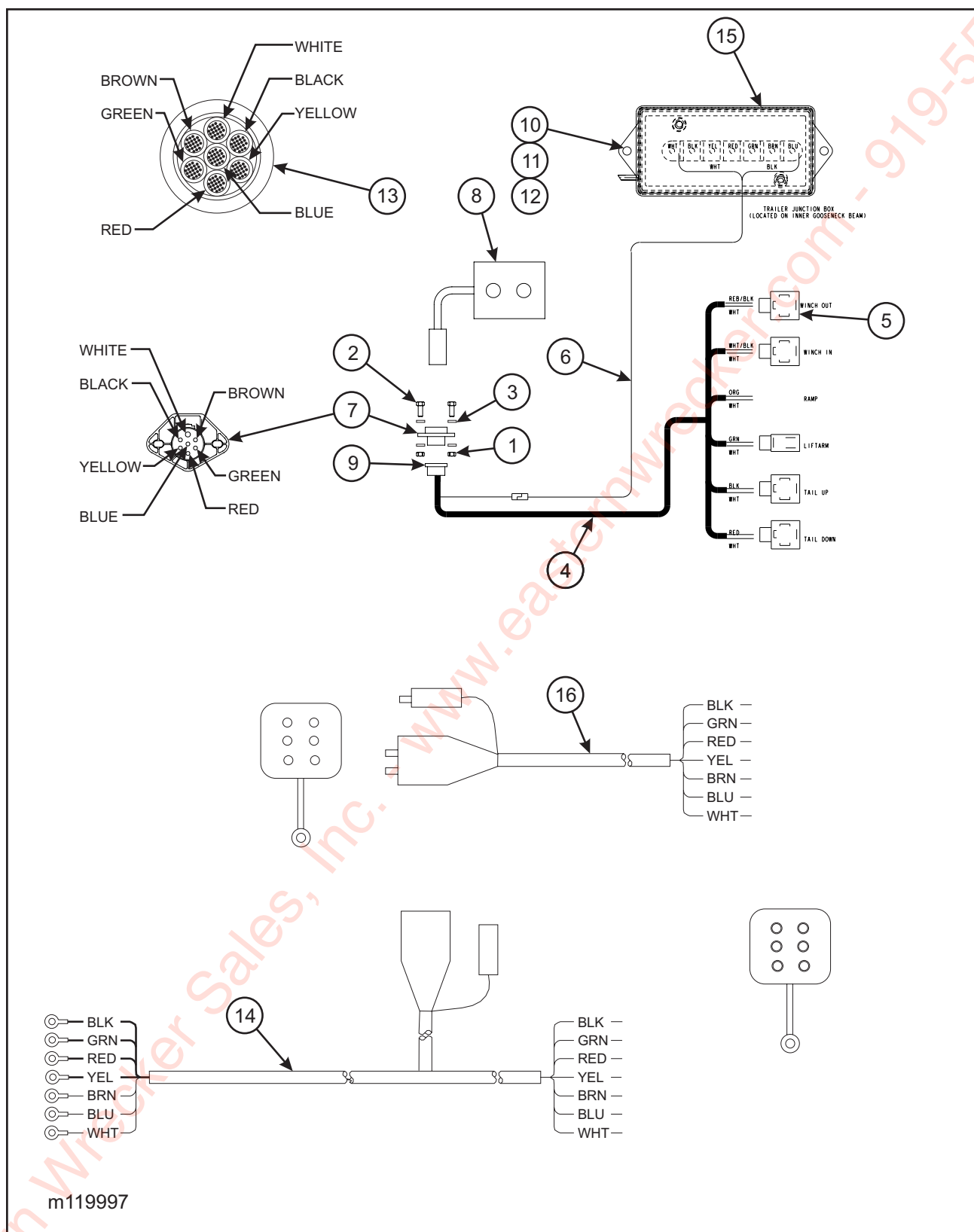


**Figure 1-40 Cover Assembly, Upper Deck**



## COVER ASSEMBLY, UPPER DECK

| ITEM | PART NO.        | DESCRIPTION                                                                     | QTY. |
|------|-----------------|---------------------------------------------------------------------------------|------|
|      | 137635          | COVER ASSEMBLY, UPPER DECK                                                      |      |
| 1    | 137634          | COVER, UPPER DECK                                                               | 1    |
| 2    | 139254          | NUTSERT 3/8-16                                                                  | 4    |
| 3    | 1-654-010051-07 | SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5                                          | 4    |
| 4    | 1-861-010032-11 | WASHER, FLAT 3/8W                                                               | 4    |
| 5    | 130552          | FRAME ASSEMBLY, GOOSENECK                                                       | REF  |
| 6    | 1-861-010034-11 | WASHER, SPLIT LOCK 3/8                                                          | 4    |
| 7    | 1-007-010025    | PLUG, 3/4-16 O-RING BOSS (NOT SHOWN)<br>(USED TO PLUG PORTS ON HYDRAULIC VALVE) | 1    |



### Figure 1-41 Wired Remote Control Items

## WIRED REMOTE CONTROL ITEMS

| ITEM | PART NO.        | DESCRIPTION                             | QTY. |   |    |   |
|------|-----------------|-----------------------------------------|------|---|----|---|
|      | 119997          | REMOTE CONTROL - WN                     | 1    |   |    |   |
|      | 119232          | REMOTE CONTROL - WN/AXLE                |      | 1 |    |   |
|      | 122614          | REMOTE CNTRL - RR OUTLET STR/CRB        |      |   | 1  |   |
|      | 112833          | CURB SIDE REMOTE OUTLET                 |      |   |    | 1 |
| 1    | 1-512-010005-03 | NUT HEX LOCK 5/16-18 GRB                | 2    | 2 | 2  | - |
|      | 1-512-010007-06 | NUT, HEX 5/16-18                        | -    | - | -  | 2 |
| 2    | 1-654-010049-06 | SCREW HEX HEAD CAP<br>5/16-18X1-1/4 GR5 | 2    | 2 | 2  | 2 |
| 3    | 1-861-010032-09 | WASHER FLAT 5/16W                       | 4    | 4 | 4  | 4 |
|      | 1-861-010034-10 | WASHER, SPLIT LOCK 5/16                 | -    | - | -  | 2 |
| 4    | 113667          | HARNESS, REMOTE CONTROL                 | 1    | 1 | -  | - |
| 5    | 114546          | STRAIN RELIEF                           | 2    | 4 | -  | - |
| 6    | 119233          | HARNESS, POWER JUMPER REMOTES           | 1    | 1 | -  | - |
| 7    | 3-272-010125    | RECEPTACLE 7-PIN                        | 1    | 1 | 1  | 1 |
| 8    | 3-765-010001    | CONTRL REMOTE WINCH                     | 1    | - | -  | - |
|      | 3-209-010004-03 | CNTRL RMT WINCH U/C<br>(SEE PAGE 1-83)  | -    | 1 | -  | - |
| 9    | 59W-2-3         | RUBBER BOOT                             | 1    | 1 | 1  | 1 |
| 10   | 1-512-010005-01 | NUT HEX LOCK 1/4- 20 GRB                | -    | - | 2  | - |
| 11   | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5      | -    | - | 2  | - |
| 12   | 1-861-010032-07 | WASHER FLAT 1/4W                        | -    | - | 4  | - |
| 13   | 3-156-010009    | CABLE, MULTI CONDUCTOR                  | -    | - | AR | - |
| 14   | 3-368-010201    | HARNESS, REAR REMOTE                    | -    | - | 1  | - |
| 15   | 750-029         | JUNCTION BOX 7-STUD                     | -    | - | 1  | - |
| 16   | 3-368-010191    | HARNESS, REAR CURB SIDE                 | -    | - | -  | 1 |

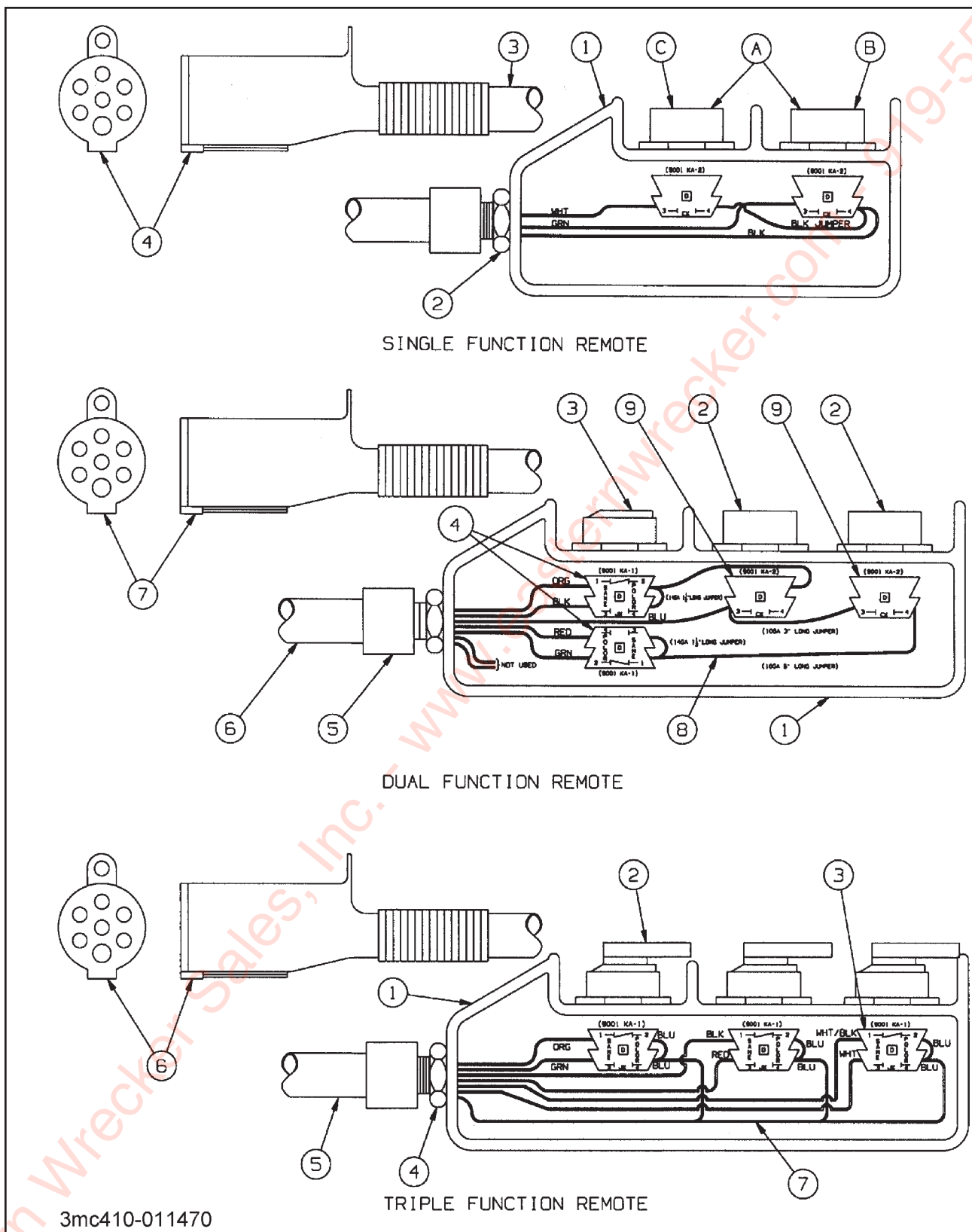


Figure 1-42 Wired Remote Control

## WIRED REMOTE CONTROL, SINGLE

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
| 1    | 3-765-010001    | SWITCH REMOTE CONTROL ASSY             |      |
|      | 3-209-010003    | PUSH BUTTON STATION                    | 1    |
|      | 106069          | SHORT RING NUT FOR BUTTON              | 1    |
| A    | 9001-BW70YU     | CONTROL STATION SQD(CONTACT BLKS INCL) | 1    |
| B    | 9001-B256       | REVERSE LEGEND                         | 1    |
| C    | 9001-B255       | FORWARD LEGEND                         | 1    |
| 2    | DB-10           | STRAIN RELIEF CORD CONN                | 1    |
| 3    | 3-156-010007600 | THREE CONDUCTOR WIRE                   | 1    |
| 4    | 59P8            | TRAILER CONN PLUG                      | 1    |

## WIRED REMOTE CONTROL, DUAL

| ITEM | PART NO.     | DESCRIPTION                                                             | QTY. |
|------|--------------|-------------------------------------------------------------------------|------|
| 1    | 3-209-010004 | CONTROL ELECT DUAL FUNC. RMT                                            |      |
|      | 3-279-010037 | ENCLOSURE DUAL REMOTE                                                   | 1    |
| 2    | 3-272-010080 | ELECTRICAL PUSH BUTTON UNITS                                            | 2    |
|      | 106069       | SHORT RING NUT FOR BUTTON                                               | 2    |
| 3    | 3-272-010079 | ELECTRICAL CONTACT OPERATOR                                             | 1    |
| 4    | 3-272-010078 | ELECTRICAL CONTACT BLOCK                                                | 2    |
| 5    | 106-0079     | CONNECTOR 1/2 CORD T&B 2522                                             | 1    |
| 6    | 3-156-010043 | CABLE 16AWG X 7 CONDUCTOR                                               | 50   |
| 7    | 59P8         | TRAILER CONN PLUG                                                       | 1    |
| 8    | 1-879-010011 | WIRE BLACK 14AWG                                                        | 2    |
| 9    | 3-272-010095 | ELECTRICAL CONTACT BLOCK                                                | 2    |
| 10   | 3-573-010296 | DECAL, WINCH TILT                                                       | 1    |
|      | 3-573-010391 | DECAL, REMOTE WINCH TENSION                                             | 1    |
|      | 3-573-010392 | DECAL, REMOTE WINCH UNDERCARRIAGE<br>(DECALS NOT SHOWN) (SEE PAGE 1-87) | 1    |

## WIRED REMOTE CONTROL, TRIPLE

| ITEM | PART NO.     | DESCRIPTION                                                                    | QTY. |
|------|--------------|--------------------------------------------------------------------------------|------|
| 1    | 3-209-010006 | CONTROL ELECT TRIPLE FUNC. RMT                                                 |      |
|      | 3-279-010037 | ENCLOSURE DUAL REMOTE                                                          | 1    |
| 2    | 3-272-010121 | ELECT. CONT. OPER. 3 WAY                                                       | 3    |
|      | 106068       | TALL RING NUT FOR BUTTON                                                       | 2    |
| 3    | 3-272-010078 | ELECTRICAL CONTACT BLOCK                                                       | 3    |
| 4    | 106-0079     | CONNECTOR 1/2 CORD T&B 2522                                                    | 1    |
| 5    | 3-156-010043 | CABLE 16AWG X 7 CONDUCTOR                                                      | 50   |
| 6    | 59P8         | TRAILER CONN PLUG                                                              | 1    |
| 7    | 1-879-010008 | WIRE BLUE 14AWG                                                                | 2    |
| 8    | 109268       | DECAL, WINCH UNDERCARRIAGE TENSION                                             | 1    |
|      | 109269       | DECAL, WINCH UNDERCARRIAGE DOCK LIFT ARM<br>(DECALS NOT SHOWN) (SEE PAGE 1-87) | 1    |

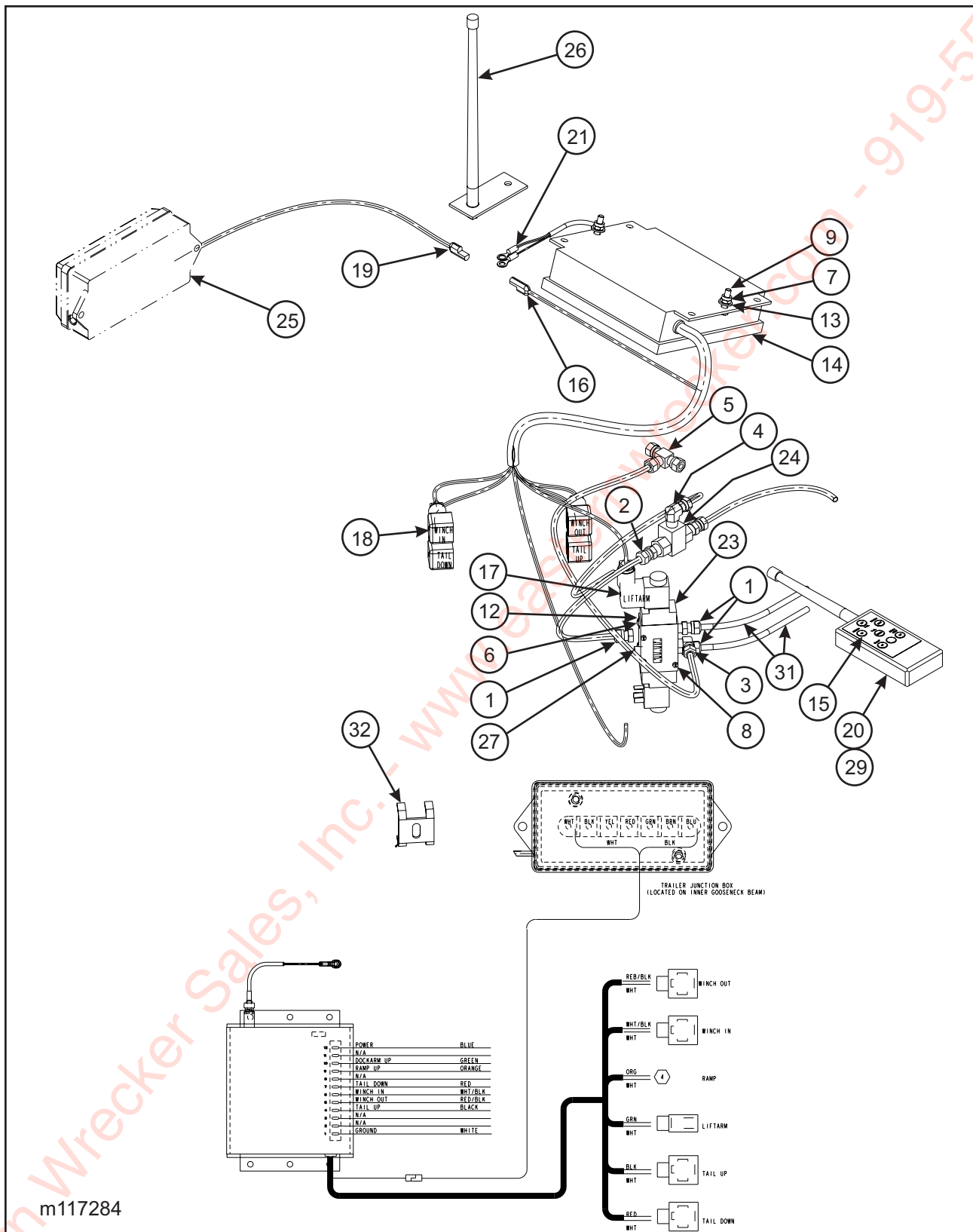


Figure 1-43 Wireless Remote Control

## WIRELESS REMOTE CONTROL WN/UC/DL

| ITEM | PART NO.        | DESCRIPTION                                | QTY. |
|------|-----------------|--------------------------------------------|------|
|      | 117284          | WIRELESS REMOTE CONTROL WN/UC/DL           |      |
|      | 117285          | WIRELESS REMOTE CONTROL WN/U/L/R           |      |
| 1    | 1-297-010007-04 | FITTING, AIR                               | *3,4 |
| 2    | 1-297-010007-05 | FITTING, AIR                               | *2,4 |
| 3    | 1-297-010008-05 | FITTING, AIR 90                            | 1    |
| 4    | 1-297-010008-07 | FITTING, AIR 90                            | *1,2 |
| 5    | 1-297-010010-01 | FITTING, AIR UNION TEE                     | 1    |
| 6    | 1-512-010003-02 | NUT, HEX LOCK #6-32                        | 3    |
| 7    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB                   | 2    |
| 8    | 1-654-010024014 | SCREW, MACH SLOTTED FIL HEAD #6-32 X 1-1/2 | 3    |
| 9    | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 X 1 GR5         | 2    |
| 10   | 1-796-010002-01 | TIE STRAP PLASTIC                          | 5    |
| 12   | 1-861-010032-01 | WASHER, FLAT #6                            | 3    |
| 13   | 1-861-010032-06 | WASHER, FLAT 1/4N                          | 2    |
| 14   | 112691          | TRANSMITTER CONTROL RADIO REMOTE           | 1    |
| 15   | 113662          | MEMBRANE OVERLAY REMOTE                    | 1    |
| 16   | 113667          | HARNESS REMOTE CONTROL                     | 1    |
| 17   | 113668          | STRAIN RELIEF                              | *1,2 |
| 18   | 114546          | STRAIN RELIEF                              | 4    |
| 19   | 119233          | HARNESS POWER JUMPER REMOTES               | 1    |
| 20   | 119626          | TRANSMITTER RADIO REMOTE                   | 1    |
| 21   | 123126          | CABLE, REMOTE ANTENNA 15FT                 | 1    |
| 23   | 3-843-010015    | VALVE, PNEUMATIC 4 WAY, 3 POS              | 1    |
| 24   | 3-843-010039-02 | VALVE, AIR SHUTTLE                         | *1,2 |
| 25   | 750-029         | JUNCTION BOX 7 STUD                        | REF  |
| 26   | A001            | ANTENNA RADIO REMOTE                       | 1    |
| 27   | 1-560-010002-01 | PLUG, PIPE 1/8                             | 1    |
| 29   | 112948          | BATTERY, 9-VOLT                            | 1    |
| 30   | 121352          | MOUNT ANTENNA RADIO REMOTE                 | 1    |
| 31   | 1-833-010001    | TUBING, NYLON 1/4                          | AR   |
| 32   | 138814          | HOSE CLAMP NOTCHED                         | 1    |

\* 1ST QUANTITY USED ON P/N 117284; 2ND QUANTITY USED ON P/N 117285

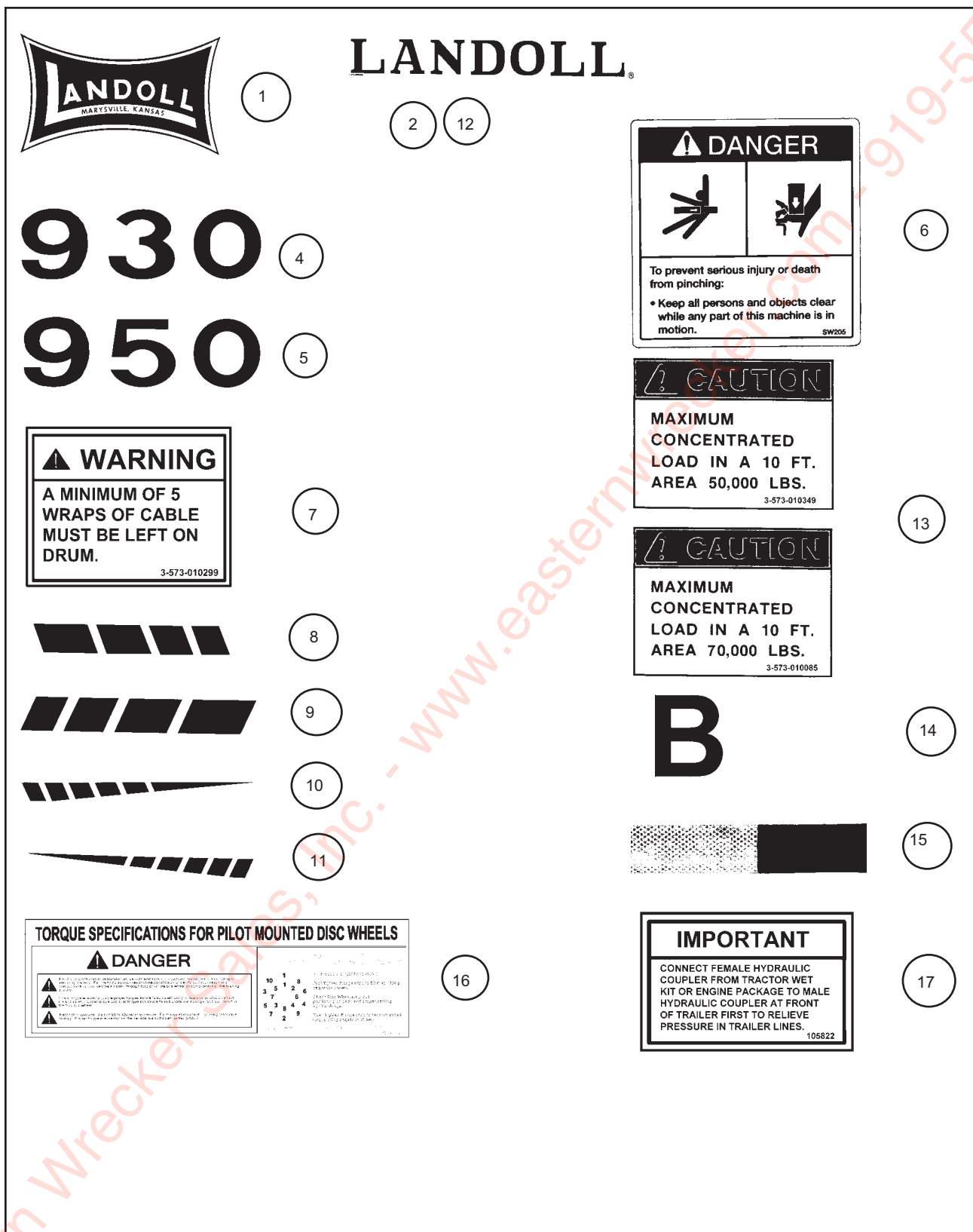


Figure 1-44 Decals



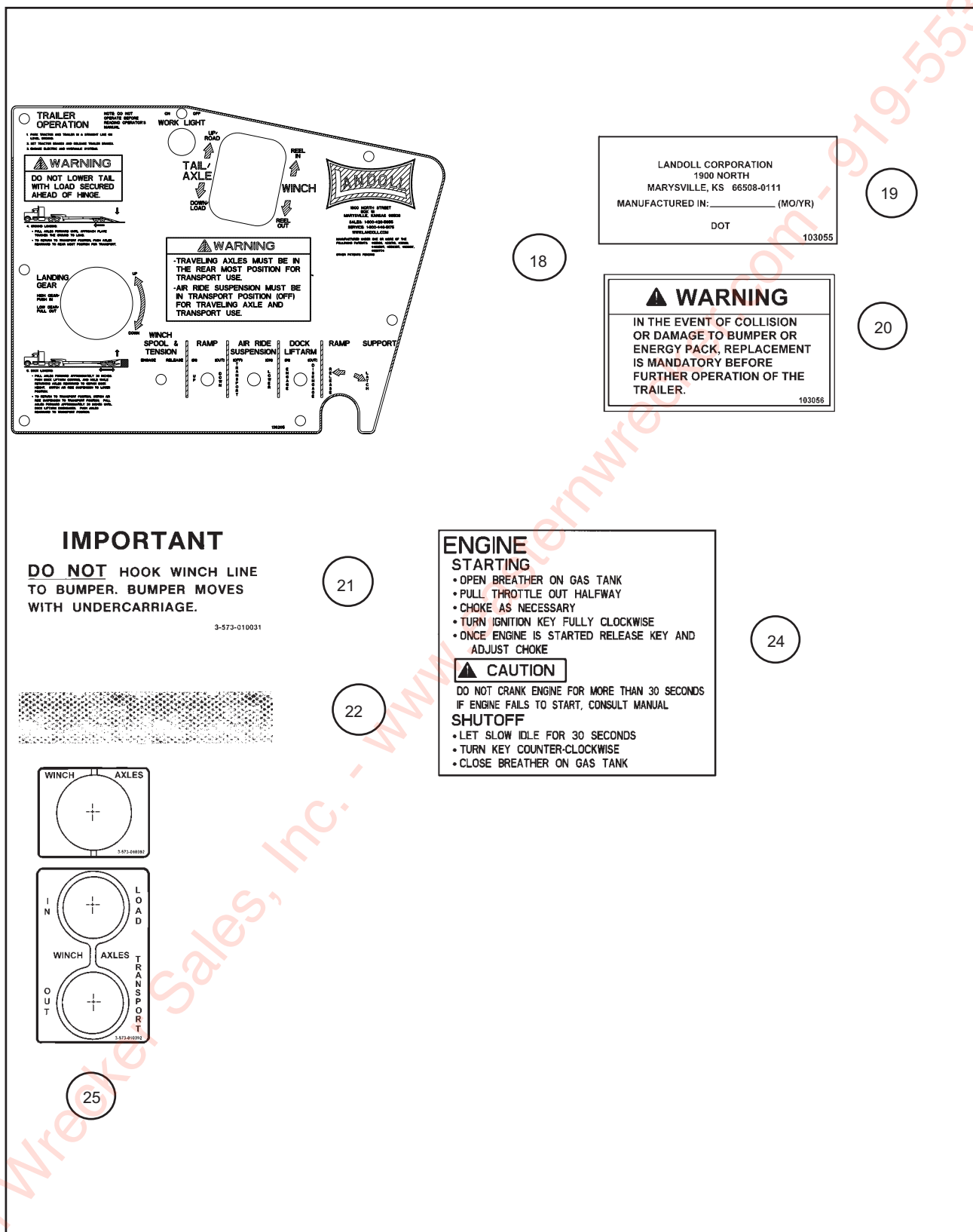


Figure 1-45 Decals

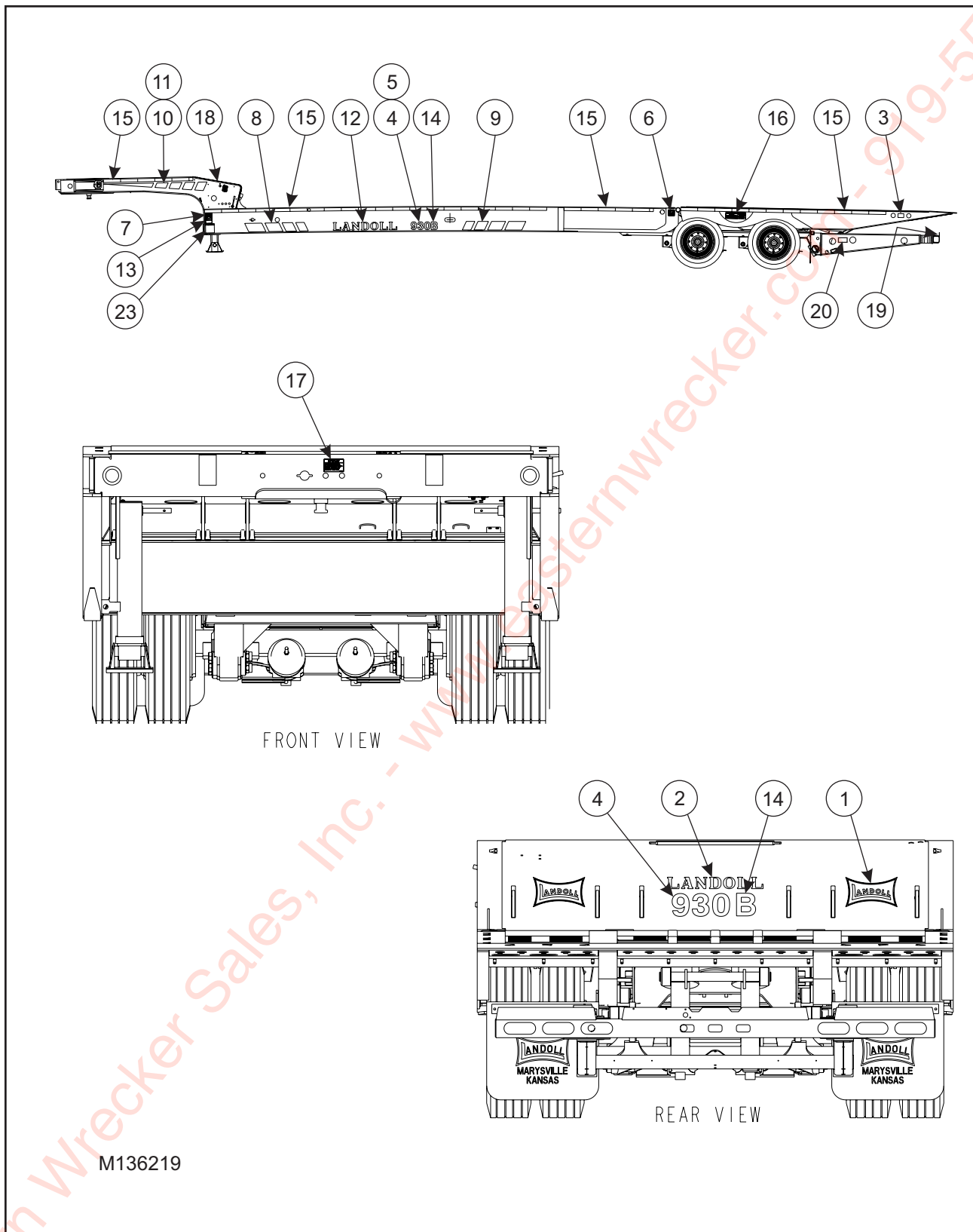


Figure 1-46 Decal Placement

## DECAL INSTALLATION

| ITEM | PART NO.     | DESCRIPTION                                            | QTY. |
|------|--------------|--------------------------------------------------------|------|
|      | 136206       | DECAL INST 930B BLACK ON LIGHT 50K                     |      |
|      | 136207       | DECAL INST 930B WHITE ON DARK 50K                      |      |
|      | 136265       | DECAL INST 950B BLACK ON LIGHT 70K                     |      |
|      | 136266       | DECAL INST 950B WHITE ON DARK 70K                      |      |
| 1    | 1-573-010476 | DECAL, BOW-TIE (BLACK)                                 | 2    |
|      | 1-573-010480 | DECAL, BOW-TIE (WHITE)                                 | 2    |
| 2    | 1-573-010477 | DECAL, LANDOLL 2-7/16" (BLACK)                         | 1    |
|      | 1-573-010481 | DECAL, LANDOLL 2-7/16" (WHITE)                         | 1    |
| 3    | 101855       | DECAL, ABS                                             | REF  |
| 4    | 108507       | DECAL, 930 5" (BLACK)                                  | 3    |
|      | 108506       | DECAL, 930 5" (WHITE)                                  | 3    |
| 5    | 109403       | DECAL, 950 5" (BLACK)                                  | 3    |
|      | 109402       | DECAL, 950 5" (WHITE)                                  | 3    |
| 6    | 2-573-010335 | DECAL, DANGER PINCH                                    | 2    |
| 7    | 3-573-010299 | DECAL, WARNING WINCH CABLE                             | 1    |
| 8    | 3-573-010040 | DECAL, FRONT STRIPE (LEFT BLACK)                       | 2    |
|      | 3-573-010042 | DECAL, FRONT STRIPE (LEFT WHITE)                       | 2    |
| 9    | 3-573-010041 | DECAL, FRONT STRIPE (RIGHT BLACK)                      | 2    |
|      | 3-573-010043 | DECAL, FRONT STRIPE (RIGHT WHITE)                      | 2    |
| 10   | 3-573-010044 | DECAL, TAPERED STRIPE (LEFT BLACK)(NOT SHOWN)          | 1    |
|      | 3-573-010046 | DECAL, TAPERED STRIPE (LEFT WHITE)(NOT SHOWN)          | 1    |
| 11   | 3-573-010045 | DECAL, TAPERED STRIPE (RIGHT BLACK)                    | 1    |
|      | 3-573-010047 | DECAL, TAPERED STRIPE (RIGHT WHITE)                    | 1    |
| 12   | 3-573-010048 | DECAL, LANDOLL 5" BLACK                                | 2    |
|      | 3-573-010049 | DECAL, LANDOLL 5" WHITE                                | 2    |
| 13   | 3-573-010349 | DECAL, CAUTION 50,000#/10FT (TANDEM)                   | 2    |
|      | 3-573-010085 | DECAL, CAUTION 70000#/10FT (TRIPLE)                    | 2    |
| 14   | 114571       | DECAL, B 5" (BLACK)                                    | 3    |
|      | 114570       | DECAL, B 5" (WHITE)                                    | 3    |
| 15   | 3-573-010377 | DECAL, 2" REFLEXITE TAPE RD/WHT                        | AR   |
| 16   | 3-573-010210 | DECAL, TORQUE SPEC 8-10 STUD HUB                       | REF  |
| 17   | 105822       | DECAL, HYD COUPLER                                     | REF  |
| 18   | 136205       | PLACARD, CONTROL PANEL                                 | 1    |
| 19   | 103055       | DECAL, ENERGY CERT.                                    | 1    |
| 20   | 103056       | DECAL, ENERGY BUMPER WARNING                           | 1    |
| 21   | 3-573-010031 | DECAL, BUMPER                                          | 1    |
| 22   | 3-573-010378 | DECAL, 2" REFL. TAPE WHITE (SEE PAGE 1-9 FOR LOCATION) | AR   |
| 23   | 100600       | DECAL, WARNING WINCH (BRADEN ONLY) (NOT SHOWN)         | REF  |
| 24   | 113388       | DECAL, ENG PACKAGE INST (SEE PAGE 1-100 FOR LOCATION)  | 1    |
| 25   | 3-573-010392 | DECAL, REMOTE WINCH/UNDERCARRIAGE (NOT SHOWN)          | REF  |

\* If trailer is repainted or if decals become illegible, order new ones from the factory and replace.

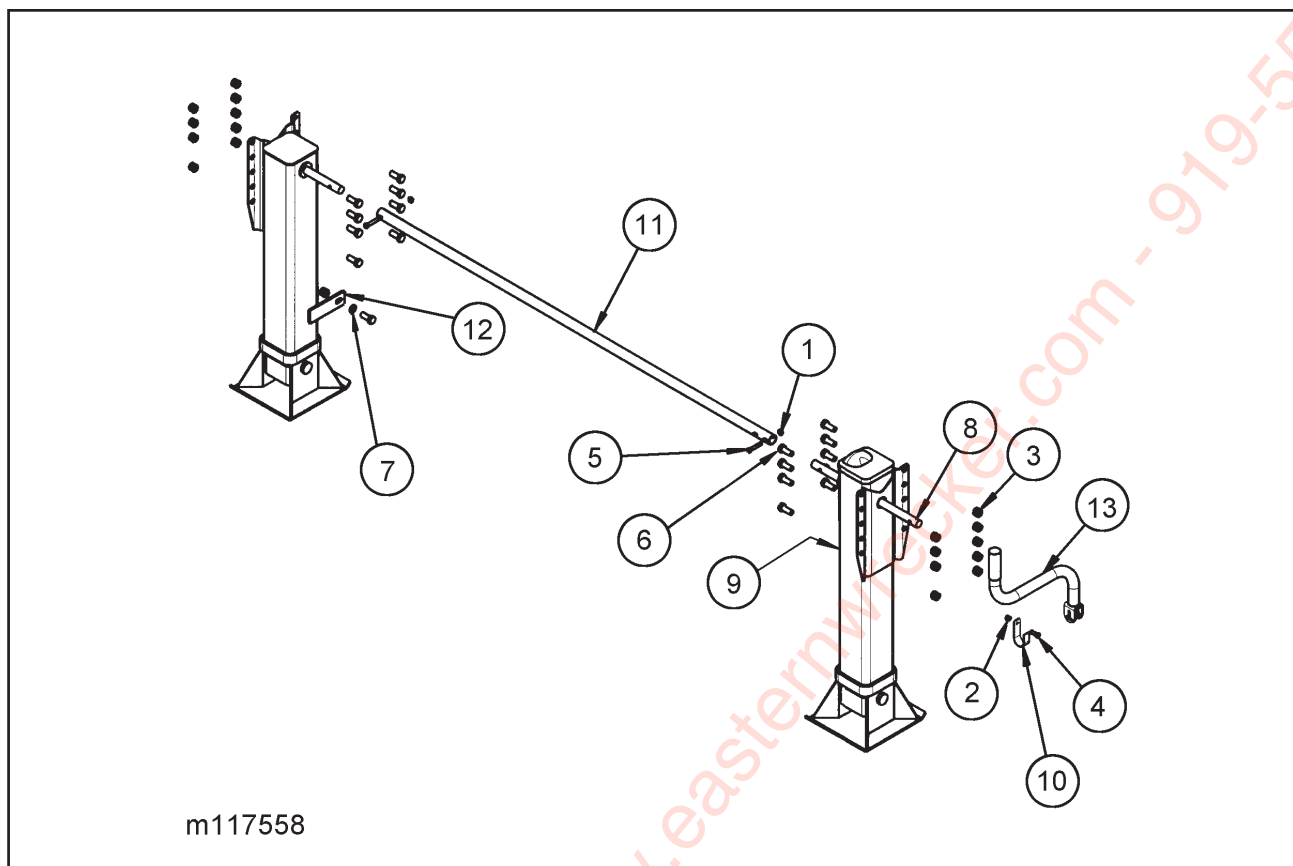


Figure 1-47 Landing Gear

## LANDING GEAR INSTALLATION

| ITEM | PART NO.        | DESCRIPTION                               | QTY. |
|------|-----------------|-------------------------------------------|------|
|      | 117558          | LANDING GEAR INSTALLATION                 |      |
| 1    | 1-510-010003-05 | NUT, FLANGE HD SERR 3/8-16                | 2    |
| 2    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB                  | 1    |
| 3    | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB                  | 20   |
| 4    | 1-654-010051-05 | SCREW, HEX HEAD CAP 3/8-16 X 1 GR5        | 1    |
| 5    | 1-654-010051-09 | SCREW, HEX HEAD CAP 3/8-16 X 2 GR5        | 2    |
| 6    | 1-654-010059-03 | SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5    | 20   |
| 7    | 1-861-010032-14 | WASHER, FLAT 1/2N                         | 2    |
| 8    | 116800          | LANDING GEAR 2 SPEED JOST (SEE PAGE 1-93) | 1    |
| 9    | 117554          | PLATE, CYL CON LOWER                      | 2    |
| 10   | 117559          | CLIP, LANDING GEAR HANDLE                 | 1    |
| 11   | 117561          | CROSS-SHAFT LANDING GEAR                  | 1    |
| 12   | 117563          | ANCHOR, LOWER BOLT-ON PARK STAND          | 2    |
| 13   | 119949          | HANDLE, CRANK 2 SPEED LANDING GEAR        | 1    |

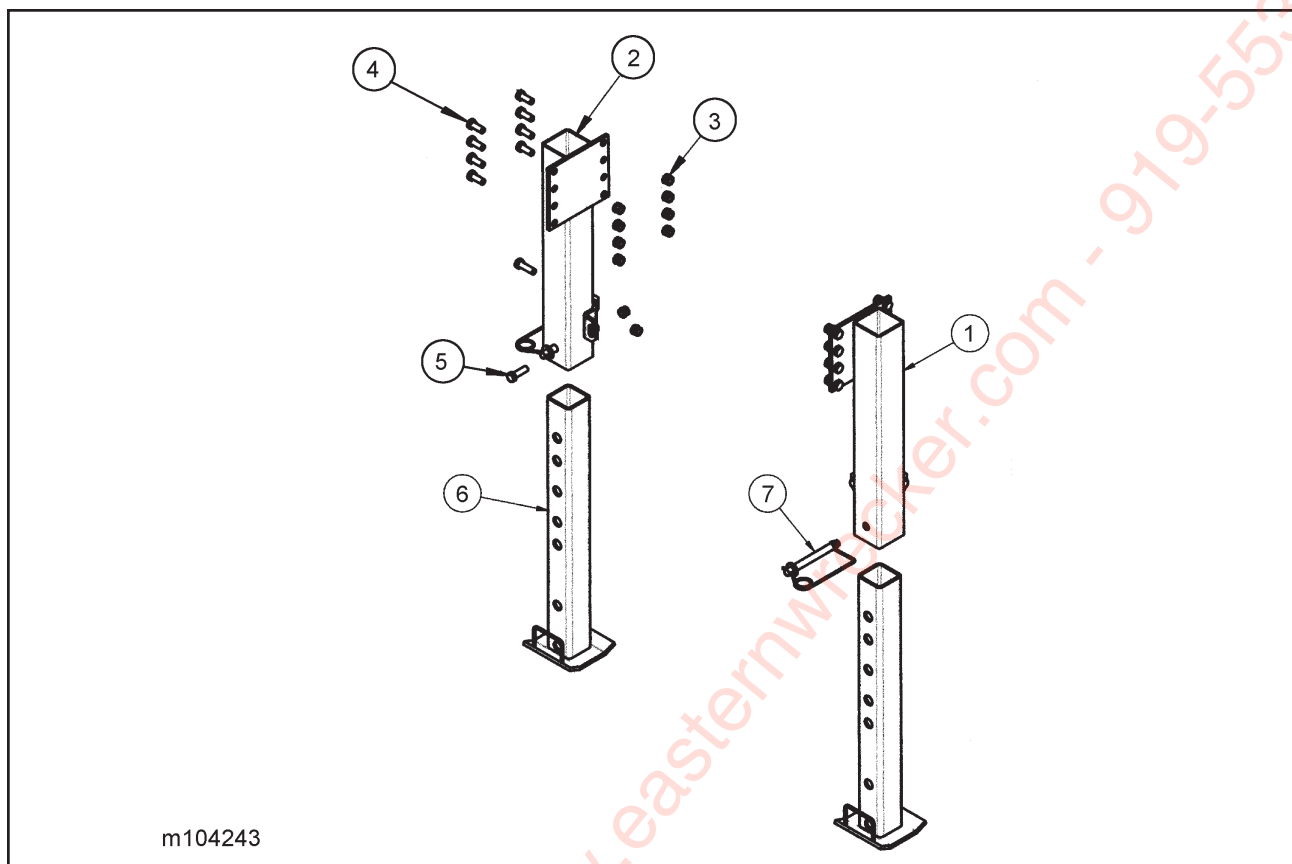


Figure 1-48 Landing Gear Installation - Bolt-on

## LANDING GEAR INSTALLATION BOLT - ON

| ITEM | PART NO.        | DESCRIPTION                          | QTY. |
|------|-----------------|--------------------------------------|------|
|      | 104243          | PARK STAND INST., BOLT-ON            |      |
| 1    | 112678          | PARK STAND WELDMENT, LH FRONT PIN    | 1    |
| 2    | 112679          | PARK STAND WELDMENT, RH FRONT PIN    | 1    |
| 3    | 1-512-010005-13 | NUT, HEX LOCK 5/8-11 GRB             | 20   |
| 4    | 1-654-010059-03 | SCREW, HEX HEAD CAP 5/8-11X1-1/2 GR5 | 16   |
| 5    | 1-654-010059-05 | SCREW, HEX HEAD CAP 5/8-11 X 2 GR5   | 4    |
| 6    | 3-725-010058    | STAND, PARK INSIDE WELDMENT          | 2    |
| 7    | 346SL           | LOCK HITCH PIN                       | 2    |

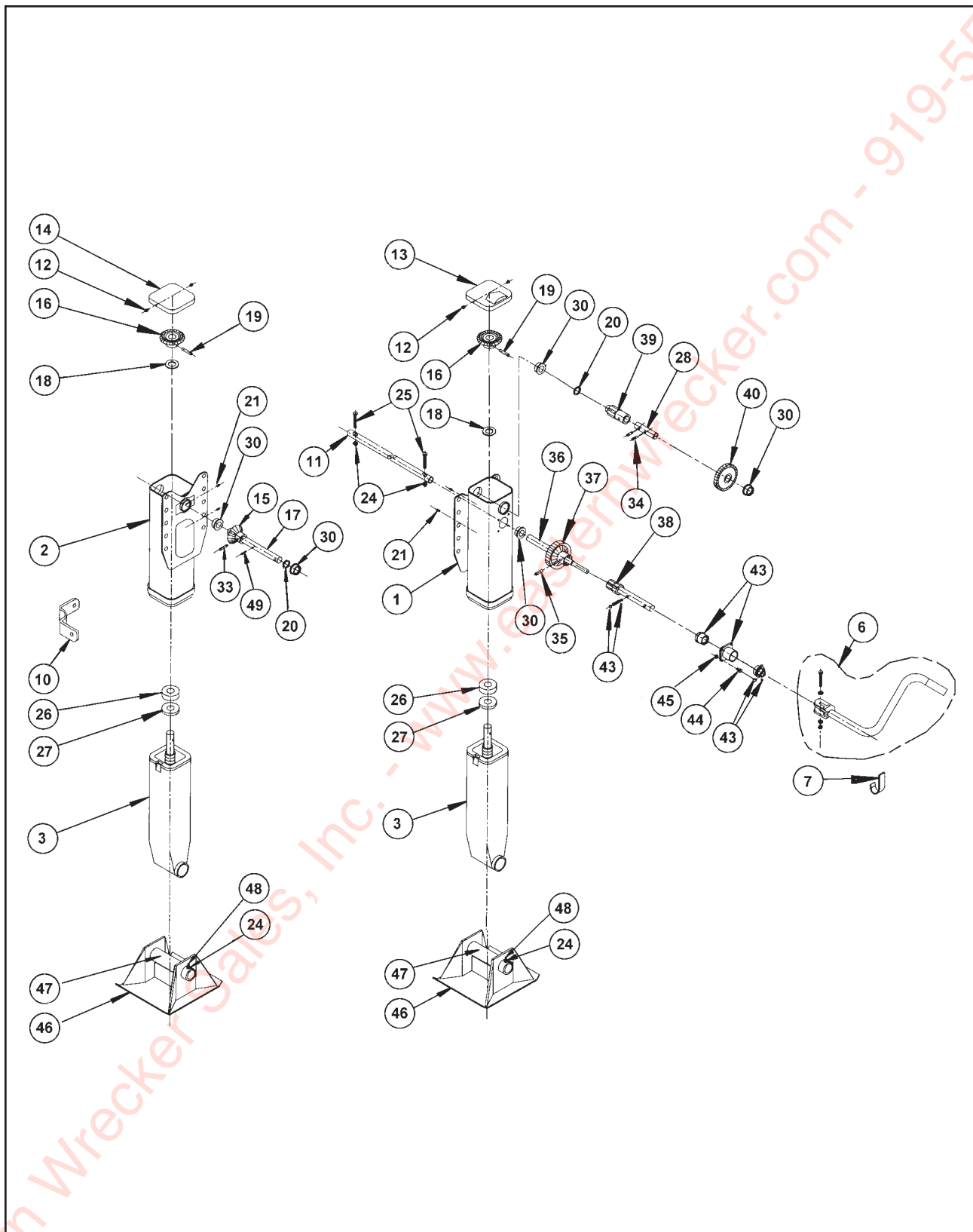


Figure 1-49 Crank Landing Gear

## CRANK LANDING GEAR

| ITEM | PART NO. | DESCRIPTION                    | QTY. |
|------|----------|--------------------------------|------|
|      | 116800   | LANDING GEAR (JOST #A401T19)   |      |
| 1    | D10201.3 | OUTER HOUSING - 2 SPEED        | 1    |
| 2    | D10116.3 | OUTER HOUSING - 1 SPEED        | 1    |
| 3    | C10140.3 | INNER LEG ASSEMBLY - STANDARD  | 2    |
| 6    | 109161   | CRANK 930 MODIFICATION         | 1    |
| 7    | 109711   | CRANK HANGER                   | 1    |
| 10   | 109712   | BRACE LUG - W                  | 2    |
| 11   | B10066   | INTERMEDIATE CROSS SHAFT       | 1    |
| 12   | A10059.1 | COVER SCREW                    | 4    |
| 13   | C10217   | COVER - 2 SPEED                | 1    |
| 14   | C10259   | COVER - 1 SPEED                | 1    |
| 15   | C10177   | PINION GEAR                    | 1    |
| 16   | C10155   | BEVEL GEAR                     | 2    |
| 17   | B10130   | PINION SHAFT - 1 SPEED         | 1    |
| 18   | A10102   | THRUST WASHER                  | 2    |
| 19   | A10052.3 | GROOVED PIN                    | 2    |
| 20   | A10218   | SPACER WASHER                  | 2    |
| 21   | A10040   | GREASE FITTING                 | 4    |
| 23   | C10209   | STRUT BRACE (NOT SHOWN)        | 4    |
| 24   | A10038.7 | SELF LOCKING NUT               | 2    |
| 25   | A10037.1 | CROSS SHAFT BOLT - 3/8 X 2 GR5 | 2    |
| 26   | A10033   | THRUST BEARING                 | 2    |
| 27   | A10101   | COLLAR                         | 2    |
| 28   | A10212   | OUTPUT SHAFT                   | 1    |
| 30   | A10255   | BUSHING                        | 5    |
| 33   | A10054.3 | ROLL PIN 3/8 X 1-1/2           | 1    |
| 34   | A10260.1 | SPIRAL PIN                     | 2    |
| 35   | A10054.7 | ROLL PIN - 3/8 X 1-3/4         | 1    |
| 36   | B10236   | OUTPUT CLUSTER SHAFT           | 1    |
| 37   | C10234   | OUTPUT CLUSTER GEAR            | 1    |
| 38   | C10233   | INPUT GEAR SHAFT               | 1    |
| 39   | C10078   | OUTPUT SPUR GEAR               | 1    |
| 40   | C10085   | INPUT SPUR GEAR                | 1    |
| 43   | B10229.S | SHIFT HOUSING SERVICE KIT      | 1    |
| 44   | A10230   | SHIFT HOUSING BOLT             | 4    |
| 45   | A10038.6 | SELF LOCKING NUT               | 4    |
| 46   | C10256   | SHOE - 10 X 10 X 4-1/2         | 2    |
| 47   | B10036   | SHOE AXLE                      | 2    |
| 48   | A10037.3 | HEX HEAD BOLT                  | 2    |
| 49   | A10054.6 | ROLL PIN - 1/4 X 1-1/4         | 1    |

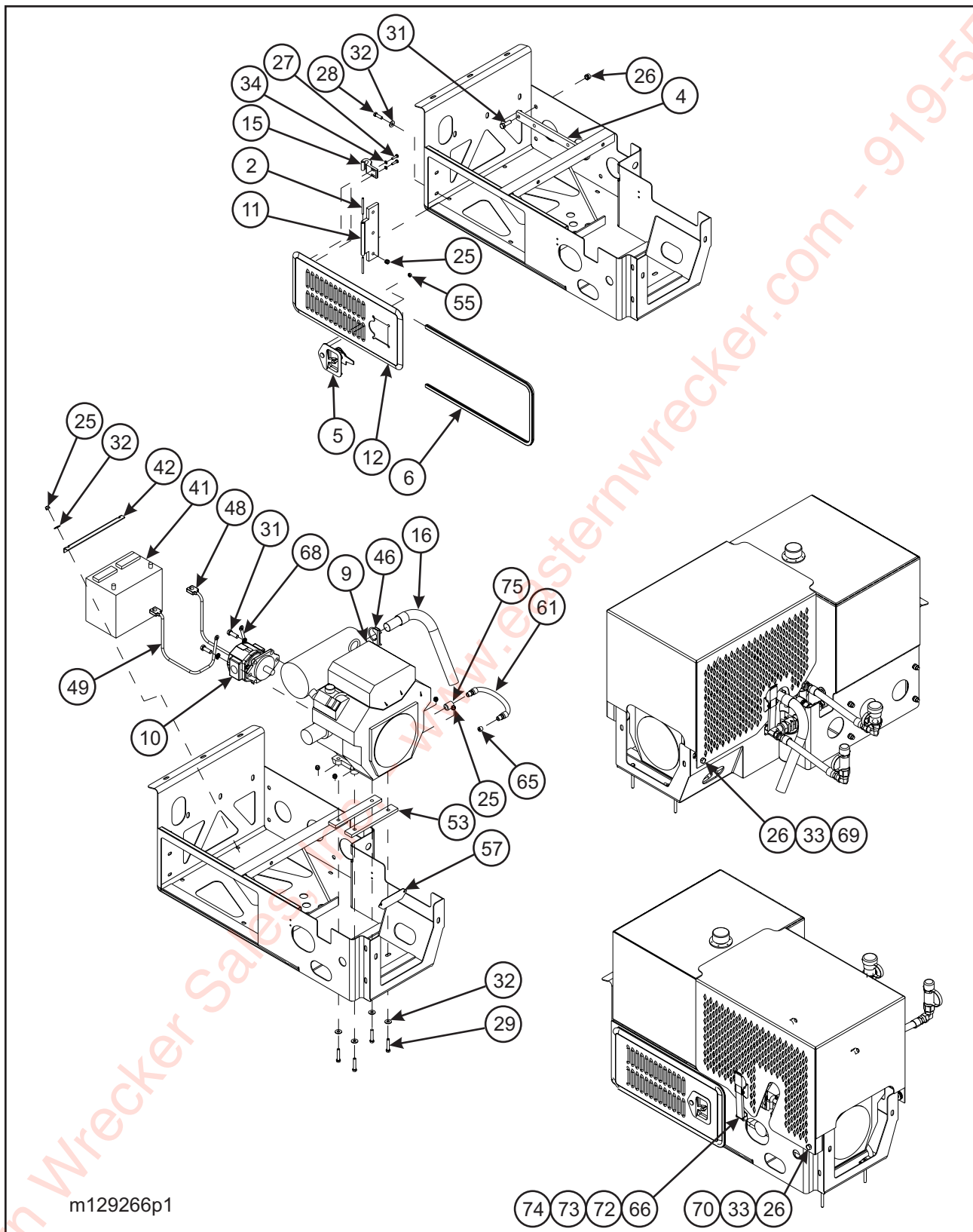


Figure 1-50 Hydraulic Engine, 27HP Upper Deck (1 of 2)



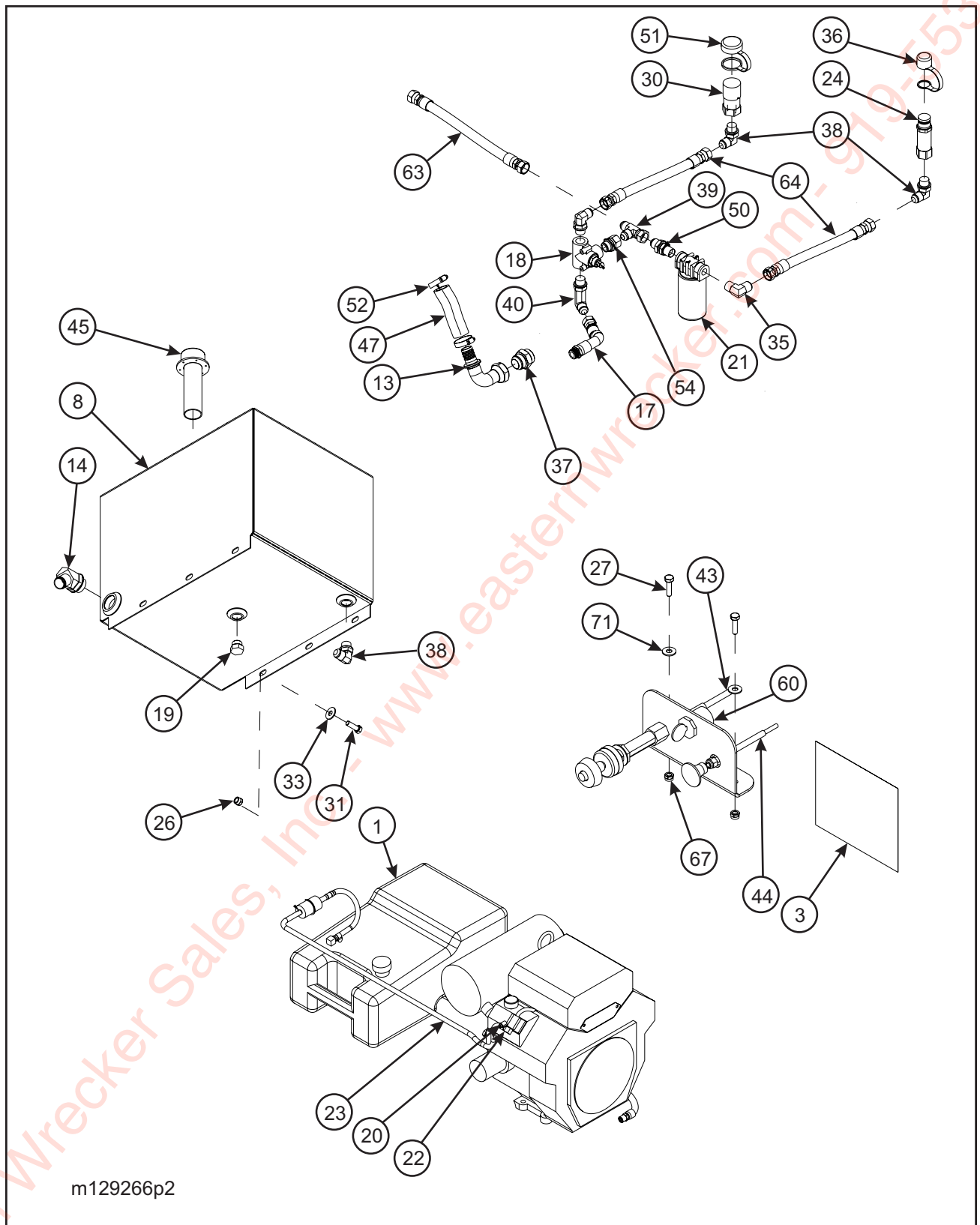


Figure 1-51 Hydraulic Engine, 27HP Upper Deck (2 of 2)

## HYDRAULIC ENGINE 27HP UPPER DECK

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 123166          | ENGINE PACKAGE GAS 27HP                |      |
| 1    | 104699          | TANK, FUEL PLASTIC 6.6 GAL             | 1    |
| 2    | 108601          | PIN, DOOR HINGE                        | 2    |
| 3    | 113388          | DECAL, ENG PKG INSTR                   | 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                         | 1    |
| 8    | 129264          | HYD TANK WELDMENT, 30 GAL              | 1    |
| 9    | 127813          | ENGINE, KOHLER 27HP PUMP MOUNT         | 1    |
| 10   | 115888          | PUMP, HYDRAULIC .88CID GEAR            | 1    |
| 11   | 116326          | HINGE, BASE MOUNT                      | 1    |
| 12   | 116328          | MOUNT, DOOR WELDMENT                   | 1    |
| 13   | 116330          | FITTING 90                             | 1    |
| 14   | 117873          | FITTING                                | 1    |
| 15   | 119206          | HINGE, DOOR ENG DRIVE 25HP             | 2    |
| 16   | 119445          | EXHAUST EXT WELDMENT 25HP              | 1    |
| 17   | 119577          | HOSE 3/4 X 9.25                        | 1    |
| 18   | 120661          | VALVE, HYD PRESSURE RELIEF             | 1    |
| 19   | 900598-12S      | PLUG                                   | 1    |
| 20   | 105-0105        | CLAMP HOSE IDEAL 6203                  | 2    |
| 21   | 1-295-010001    | FILTER RETURN LINE                     | 1    |
|      | 1-295-010002    | FILTER ELEMENT                         | 1    |
| 22   | 1-297-010034-01 | FITTING BRASS 90                       | 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 SP 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 3/8                        | 17   |
| 33   | 1-861-010032-15 | WASHER FLAT 1/2                        | 13   |
| 34   | 1-861-010034-09 | WASHER SPLIT LOCK 1/4                  | 4    |
| 35   | 2024-12-12S     | ADAPTER 90 3/4 MPT X 3/4M              | 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 SWIVEL                    | 1    |
| 40   | 206209-12-12S   | ADAPTER, 90                            | 1    |
| 41   | 2481X           | BATTERY, 12V                           | 1    |
| 42   | 3-120-010124    | BATTERY CLAMP BRACKET                  | 1    |
| 43   | 3-155-010012    | CABLE THROTTLE                         | 1    |
| 44   | 3-155-010025    | CABLE UTILITY CHOKE                    | 1    |
| 45   | 3-162-010001    | FILLER BREATHER STRAINER ASSEMBLY      | 1    |
| 46   | 3-182-010028    | CLAMP, MUFFLER                         | 1    |

## HYDRAULIC ENGINE 27HP UPPER DECK

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
| 47   | 3-399-010001006 | HOSE, SUCTION 1-1/4                    | 1    |
| 48   | 514-9045-26     | CABLE ASSEMBLY BATTERY NEGATIVE        | 1    |
| 49   | 514-9073-18     | CABLE ASSEMBLY BATTERY NEGATIVE        | 1    |
| 50   | 2240-12-12S     | ADAPTER, BULKHEAD                      | 1    |
| 51   | 105482          | COUPLER, DUST CAP FEMALE               | 1    |
| 52   | 1-181-010046-7  | HOSE CLAMP                             | 2    |
| 53   | 120659          | ISOLATOR, KOHLER 25HP MOUNT            | 2    |
| 54   | 120660          | ADAPTER                                | 1    |
| 55   | 115877          | NUT, HEAVY HEX 1/4-20 GR5              | 4    |
| 57   | 123014          | PLATE, MOTOR FRONT, 25HP E/P           | 1    |
| 58   | 113544          | HARNESS ENG PKG                        | 1    |
| 59   | 108295          | SCREW, HEX HEAD CAP 3/8-16 X 4 GR5     | 2    |
| 60   | 123167          | BRACKET CONTROLS                       | 1    |
| 61   | 1-397-010312032 | HOSE ASSEMBLY 3/8 X 32                 | 1    |
| 62   | 129287          | COVER WELDMENT U/D ENG PKG 30 GAL      | 1    |
| 63   | 1-397-010304018 | HOSE ASSEMBLY 18                       | 1    |
| 64   | 1-397-010304060 | HOSE ASSEMBLY 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 GR 5 | 1    |
| 70   | 1-654-010055-09 | SCREW HEX HEAD CAP 1/2-13 x 3 GR 5     | 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      | BLACK PIPE COUPLING 3/8                | 1    |

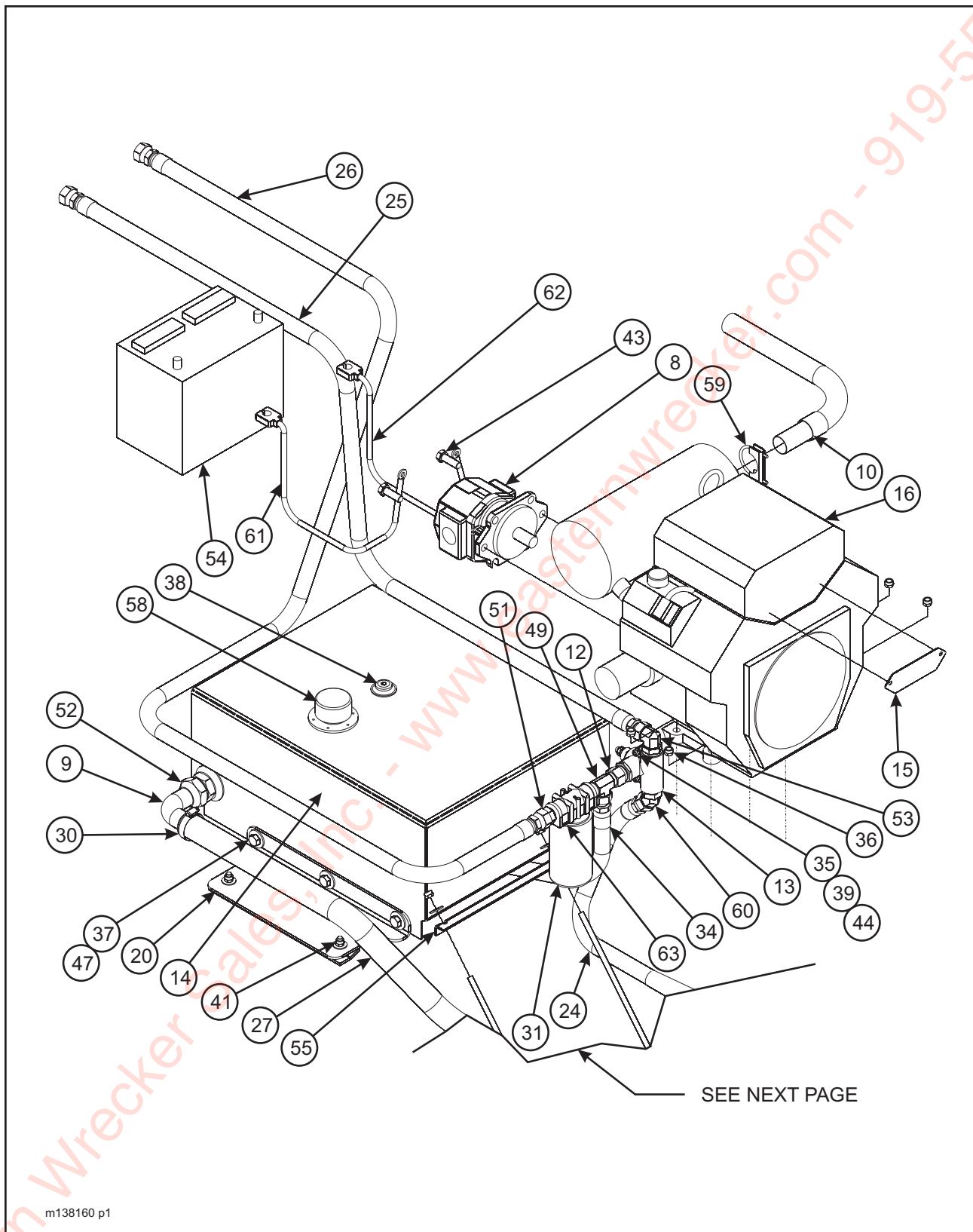


Figure 1-52 Hydraulic Engine, 27HP Slope (1 of 2)

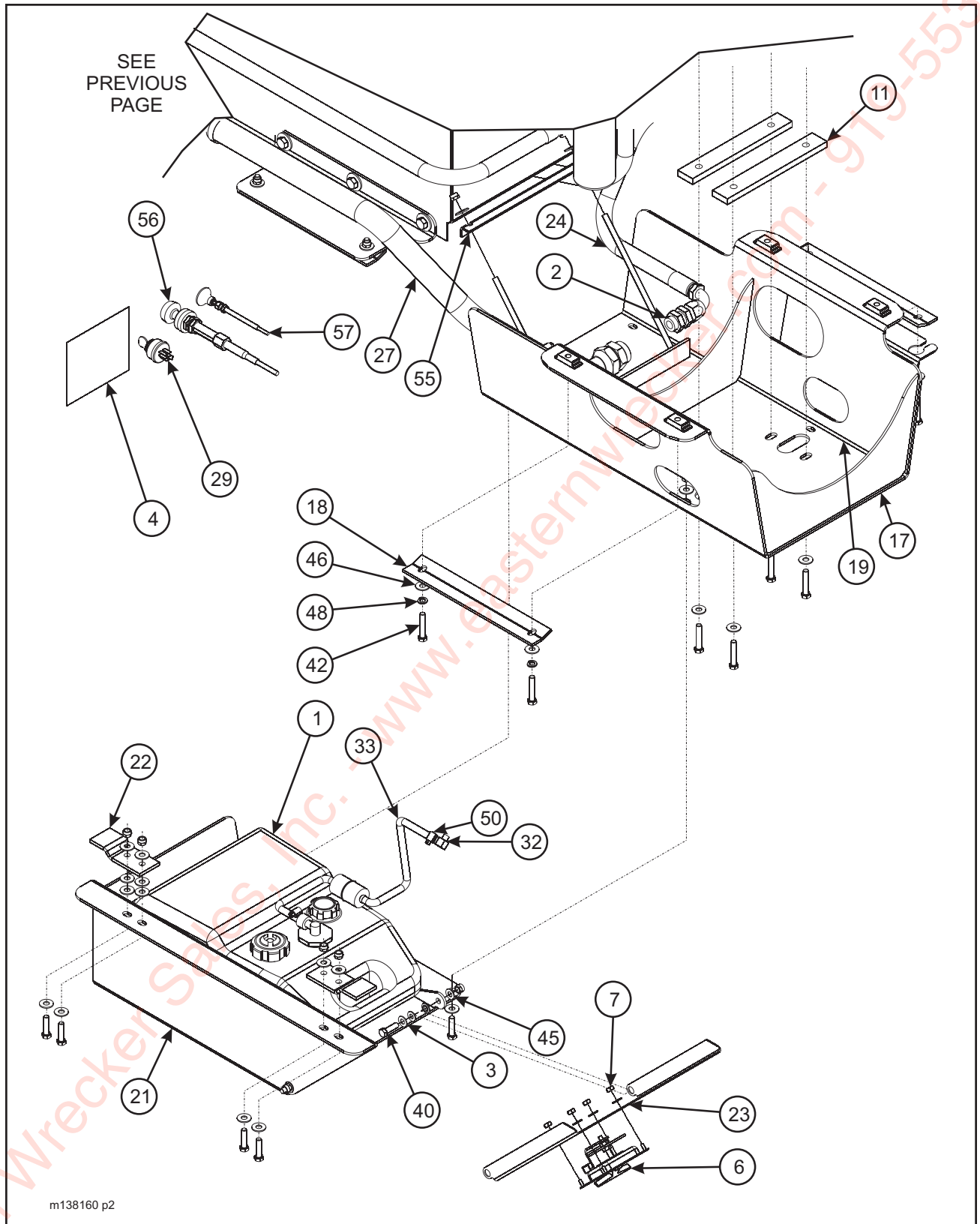


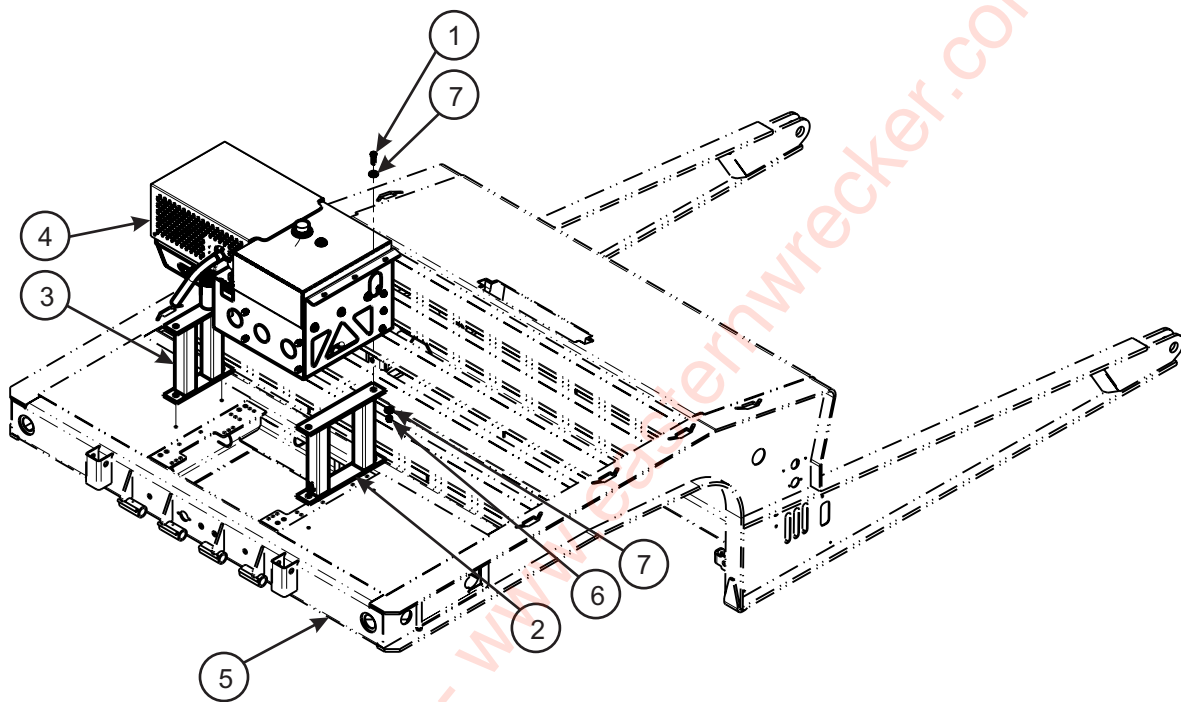
Figure 1-53 Hydraulic Engine, 27HP Slope (2 of 2)

## HYDRAULIC ENGINE 27HP SLOPE

| ITEM | PART NO.        | DESCRIPTION                              | QTY. |
|------|-----------------|------------------------------------------|------|
|      | 138160          | ENGINE PACKAGE GAS 27HP SLOPE            |      |
| 1    | 104699          | TANK, FUEL PLASTIC 6.6 GAL               | 1    |
| 2    | 105483          | ADAPTER, BULKHEAD                        | 1    |
| 3    | 112248          | NYLON SHOULDER WASHER                    | 4    |
| 4    | 113388          | DECAL, ENG PKG INSTR                     | 1    |
| 5    | 113544          | HARNESS ENG PKG (NOT SHOWN)              | 1    |
| 6    | 114814          | LATCH, FOLDING T LOCKABLE                | 1    |
| 7    | 115877          | NUT, HEAVY HEX 1/4-20 GR5                | 4    |
| 8    | 115888          | PUMP, HYDRAULIC .88CID GEAR              | 1    |
| 9    | 116330          | FITTING 90                               | 2    |
| 10   | 119445          | EXHAUST EXT WELDMENT 25HP                | 1    |
| 11   | 120659          | ISOLATOR, KOHLER 25HP MOUNT              | 2    |
| 12   | 120660          | ADAPTER                                  | 1    |
| 13   | 120661          | VALVE, HYD PRESSURE RELIEF               | 1    |
| 14   | 120662          | HYDRAULIC TANK WELDMENT 15 GAL E/P       | 1    |
| 15   | 123014          | PLATE, MOTOR FRONT, 25HP E/P             | 1    |
| 16   | 127813          | ENGINE, KOHLER 27HP PUMP MOUNT           | 1    |
| 17   | 138114          | BASE WELDMENT                            | 1    |
| 18   | 138144          | CLAMP                                    | 3    |
| 19   | 138145          | SHIELD                                   | 1    |
| 20   | 138146          | BRACKET, TANK MOUNT                      | 1    |
| 21   | 138192          | TRAY WELDMENT                            | 1    |
| 22   | 138206          | MOUNT, TRAY GAS TANK                     | 2    |
| 23   | 138207          | DOOR, GAS TANK TRY                       | 1    |
| 24   | 138818          | HOSE ASSEMBLY, 3/4 X 24                  | 1    |
| 25   | 139071          | HOSE, 3/4 X 72                           | 1    |
| 26   | 139072          | HOSE, 3/4 X 105                          | 1    |
| 27   | 139073          | HOSE, SUCTION 1-1/4 X 33                 | 1    |
| 29   | 2509904         | KOHLER IGNITION SWITCH                   | REF  |
| 30   | 1-181-010046-7  | CLAMP, HOSE                              | 2    |
| 31   | 1-295-010001    | FILTER RETURN LINE                       | 1    |
|      | 1-295-010002    | FILTER ELEMENT                           | 1    |
| 32   | 1-297-010034-01 | FITTING BRASS 90                         | 1    |
| 33   | 1-316-010013    | HOSE, 1/4 LOW PRESSURE FUEL LINE         | 3    |
| 34   | 1-397-010304025 | HOSE ASSEMBLY 3/4 X 25                   | 1    |
| 35   | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB                 | 2    |
| 36   | 1-512-010005-05 | NUT HEX LOCK 3/8-16 GRB                  | 16   |
| 37   | 1-512-010005-09 | NUT HEX LOCK 1/2-13 GRB                  | 6    |
| 38   | 1-560-010002-04 | PLUG PIPE 1/2                            | 1    |
| 39   | 1-654-010047-09 | SCREW HEX HEAD CAP SP 1/4-20 X 1-3/4 GR5 | 2    |
| 40   | 1-654-010051-06 | SCREW HEX HEAD CAP 3/8-16 X 1-1/4 GR5    | 2    |
| 41   | 1-654-010051-07 | SCREW HEX HEAD CAP 3/8-16 X 1-1/2 GR5    | 8    |
| 42   | 1-654-010051-09 | SCREW HEX HEAD CAP 3/8-16 X 2 GR5        | 6    |
| 43   | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5   | 8    |
| 44   | 1-861-010032-07 | WASHER FLAT 1/4W                         | 6    |
| 45   | 1-861-010032-10 | WASHER FLAT 3/8N                         | 4    |
| 46   | 1-861-010032-11 | WASHER FLAT 3/8W                         | 30   |

## HYDRAULIC ENGINE 27HP SLOPE

| ITEM | PART NO.        | DESCRIPTION                       | QTY. |
|------|-----------------|-----------------------------------|------|
| 47   | 1-861-010032-15 | WASHER FLAT 1/2W                  | 12   |
| 48   | 1-861-010034-11 | WASHER SPLIT LOCK 3/8             | 4    |
| 49   | 102-0204        | ADAPTER                           | 1    |
| 50   | 105-0105        | CLAMP HOSE IDEAL 6203             | 2    |
| 51   | 2021-12-12S     | ADAPTER                           | 1    |
| 52   | 202702-20-20S   | ADAPTER                           | 2    |
| 53   | 2062-12-12S     | ADAPTER 90                        | 2    |
| 54   | 2481X           | BATTERY, 12V                      | 1    |
| 55   | 3-120-010124    | BATTERY CLAMP BRACKET             | 1    |
| 56   | 3-155-010012    | CABLE THROTTLE                    | 1    |
| 57   | 3-155-010025    | CABLE UTILITY CHOKE               | 1    |
| 58   | 3-162-010001    | FILLER BREATHER STRAINER ASSEMBLY | 1    |
| 59   | 3-182-010028    | CLAMP, MUFFLER                    | 1    |
| 60   | 40-0667-02      | ELBOW, 45                         | 1    |
| 61   | 514-9045-26     | CABLE ASSEMBLY BATTERY POSITIVE   | 1    |
| 62   | 514-9073-18     | CABLE ASSEMBLY BATTERY NEGATIVE   | 1    |
| 63   | 900598-12S      | PLUG                              | 1    |



m131297

Figure 1-54 Engine Package Stand Installation



## ENGINE PACKAGE STAND INSTALLATION

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 131297          | ENGINE PACKAGE STAND INSTALLATION      |      |
| 1    | 1-654-010055-04 | SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5 | 8    |
| 2    | 120479          | MOUNT WELDMENT                         | 1    |
| 3    | 124556          | MOUNT WELDMENT NARROW                  | 1    |
| 4    | 123166          | ENG PACKAGE 27 HP                      | REF  |
| 5    | 130662          | GOOSENECK WELDMENT                     | REF  |
| 6    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB               | 8    |
| 7    | 1-861-010032-15 | WASHER FLAT 1/2W                       | 16   |

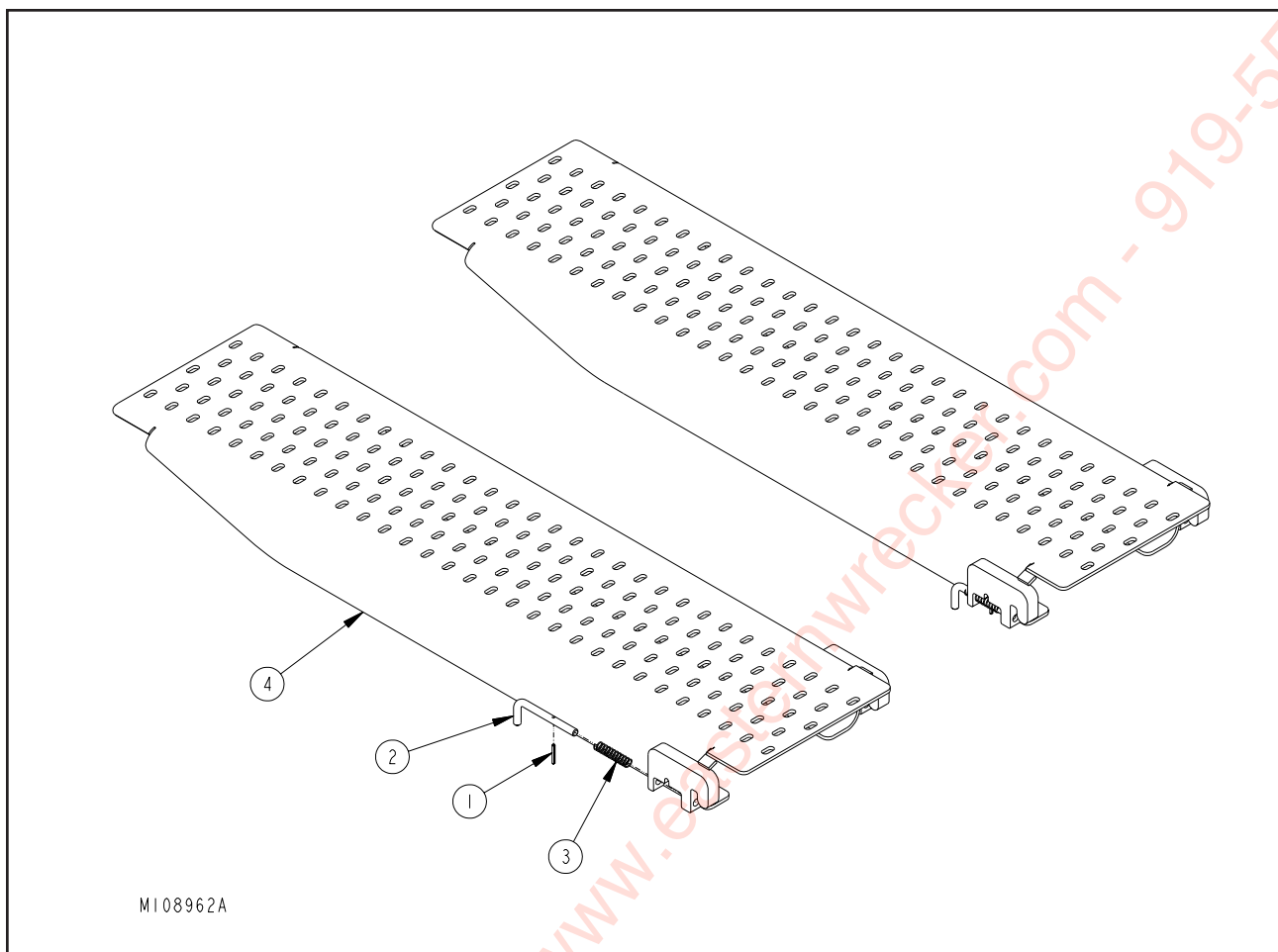


Figure 1-55 Portable Ramp Assembly (Option)

## PORTABLE RAMP ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                          | QTY. |
|------|-----------------|--------------------------------------|------|
|      | 108962          | RAMP ASSEMBLY, ALUMINUM              |      |
|      | 109174          | RAMP ASSEMBLY, STEEL                 |      |
| 1    | 1-647-010004177 | ROLL PIN SLOTTED, 3/16 X 1-1/2       | 4    |
| 2    | 104252          | PIN, P/O EXT LOCK                    | 4    |
| 3    | 104253          | SPRING, COMPRESSION P/O EXT LOCK     | 4    |
| 4    | 108737          | RAMP WELDMENT, FRONT REMOVABLE       | 2    |
|      | 109173          | RAMP WELDMENT, STEEL FRONT REMOVABLE | 2    |

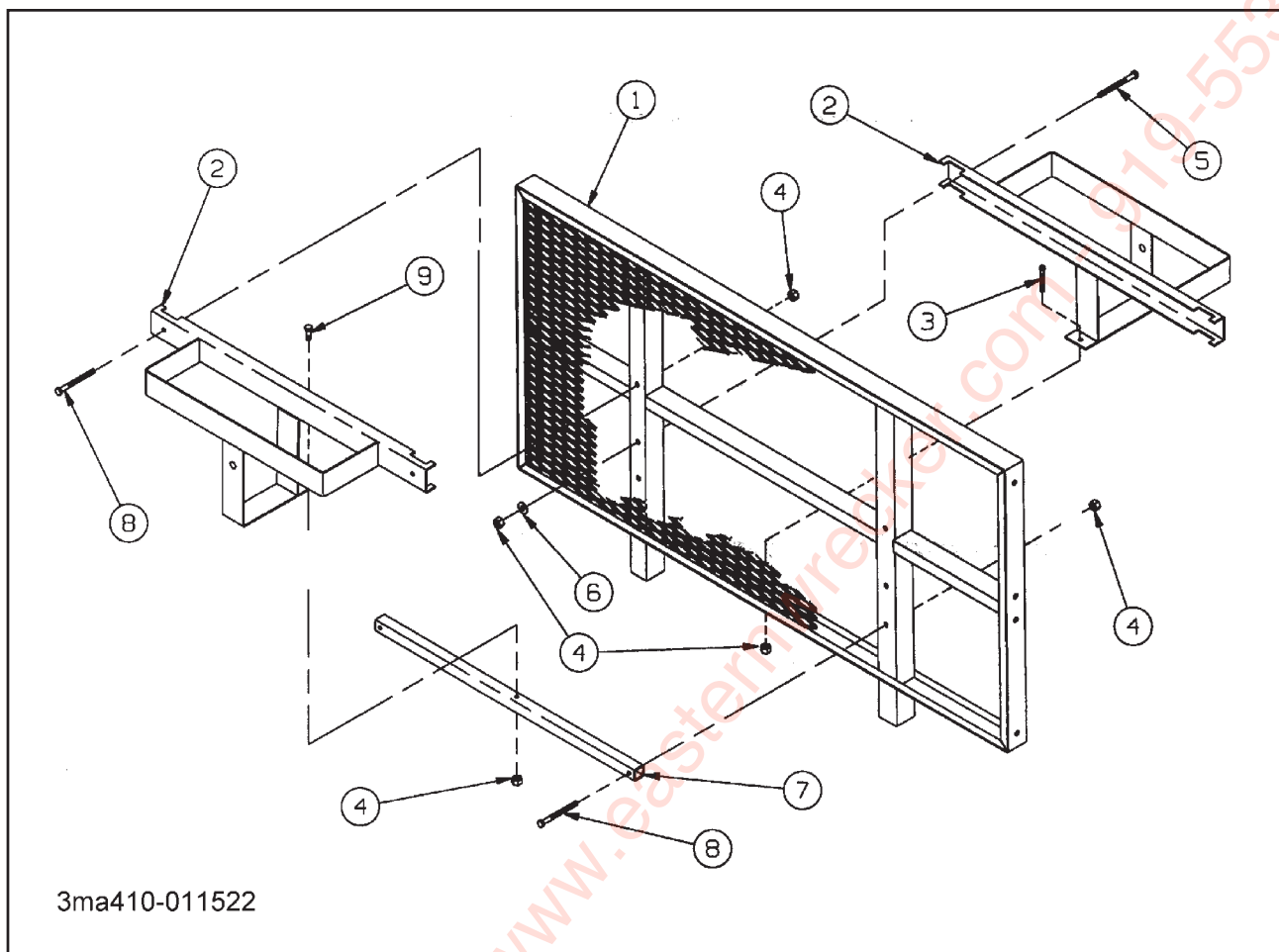


Figure 1-56 Spare Tire Carrier (Option)

## SPARE TIRE CARRIER (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 3-612-010015-1  | RACK INSTALLATION BHD, FRONT MOUNT     |      |
|      | 3-612-010015-2  | RACK INSTALLATION BHD, REAR MOUNT      |      |
| 1    | 3-141-010120    | BULKHEAD WELDMENT                      | REF  |
| 2    | 3-612-010016    | RACK WELDMENT BULKHEAD MOUNT           | 1    |
| 3    | 1-654-010055-01 | SCREW, HEX HEAD CAP 1/2-13 X 1 GR5     | 1    |
| 4    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB               | 3,5* |
| 5    | 1-654-010055-15 | SCREW, HEX HEAD CAP 1/2-13 X 5 GR5     | 2    |
| 6    | 1-861-010032-15 | WASHER, FLAT 1/2W                      | 2,0* |
| 7    | 3-829-010337    | TUBE W/ TAB                            | 0,1* |
| 8    | 1-654-010055-18 | SCREW, HEX HEAD CAP 1/2-13 X 6-1/2 GR5 | 0,4* |
| 9    | 1-654-010055-09 | SCREW, HEX HEAD CAP 1/2-13 X 3 GR5     | 0,1* |

\* FIRST QUANTITY IS FOR THE FRONT MOUNT, SECOND QUANTITY IS FOR THE REAR MOUNT.

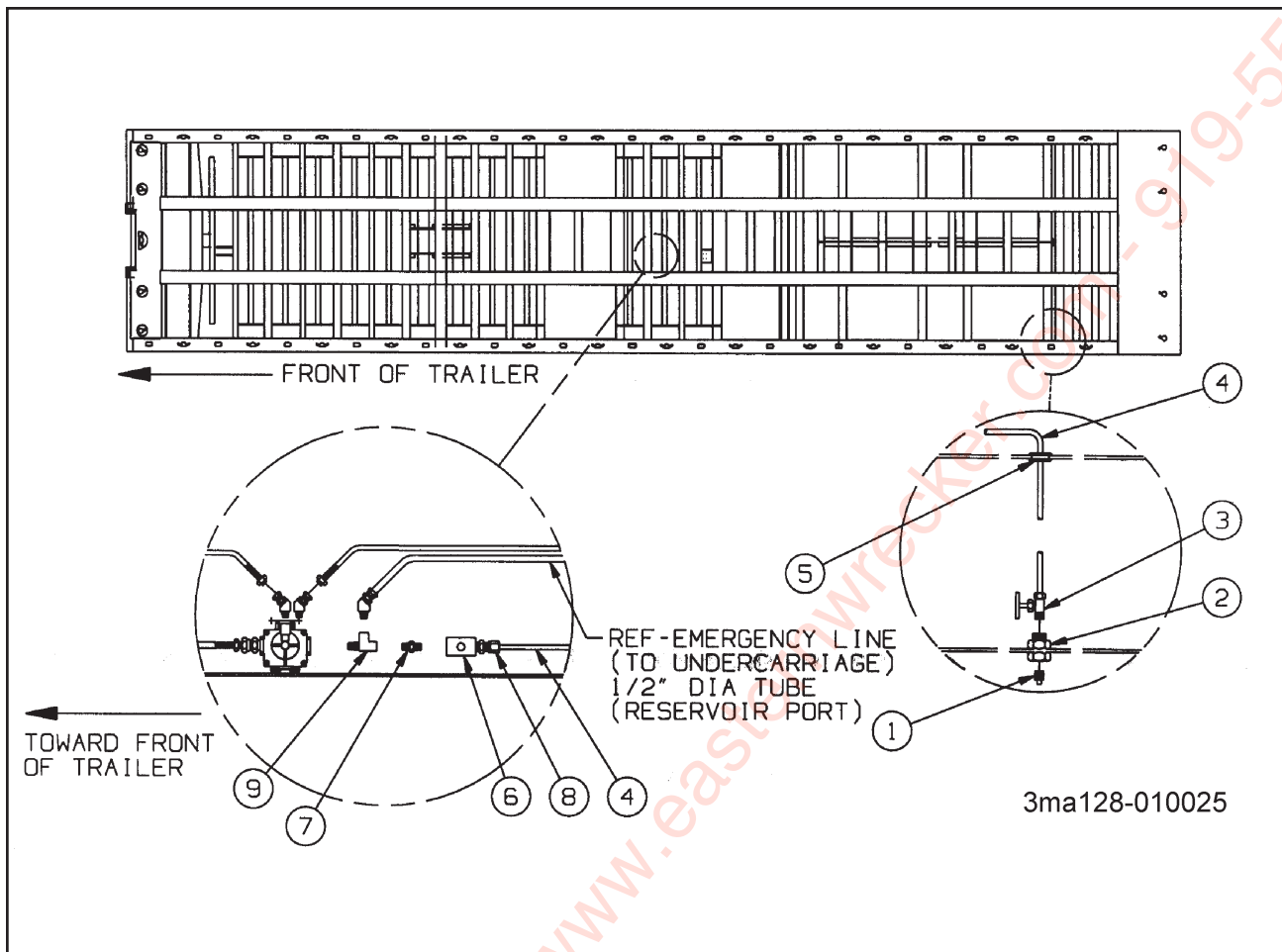


Figure 1-57 Air Outlet Assembly (Option)

## AIR OUTLET ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                  | QTY. |
|------|-----------------|------------------------------|------|
|      | 3-128-010025    | AIR OUTLET ACCESSORY         |      |
| 1    | 1-560-010002-02 | PLUG PIPE                    | 1    |
| 2    | 1-297-010022-02 | FITTING AIR ANCHOR COUPLING  | 1    |
| 3    | A6760S          | SHUT OFF VALVE               | 1    |
| 4    | 1-833-010002    | TUBING NYLON                 | 20   |
| 5    | 1-343-010007    | GROMMET                      | 1    |
| 6    | 905-54-107      | BRAKE PROTECTION VALVE       | 1    |
| 7    | 2083-8-4S       | NIPPLE HEX 1/2PIPE - 1/4PIPE | 1    |
| 8    | 1-297-010007-11 | FITTING AIR                  | 1    |
| 9    | 1-297-010018-04 | FITTING AIR                  | 1    |

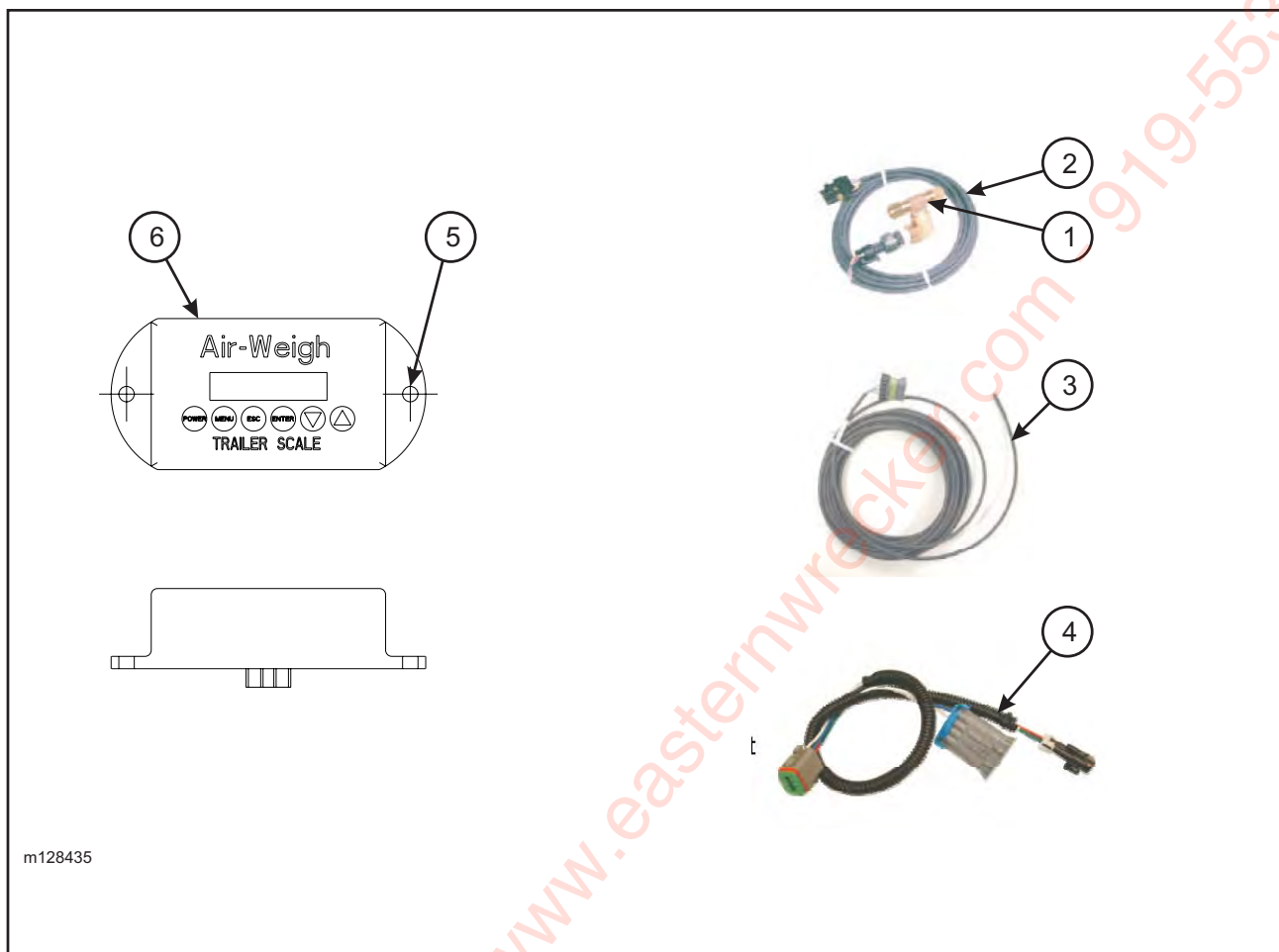


Figure 1-58 Air Digital Scale (Option)

## 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    |

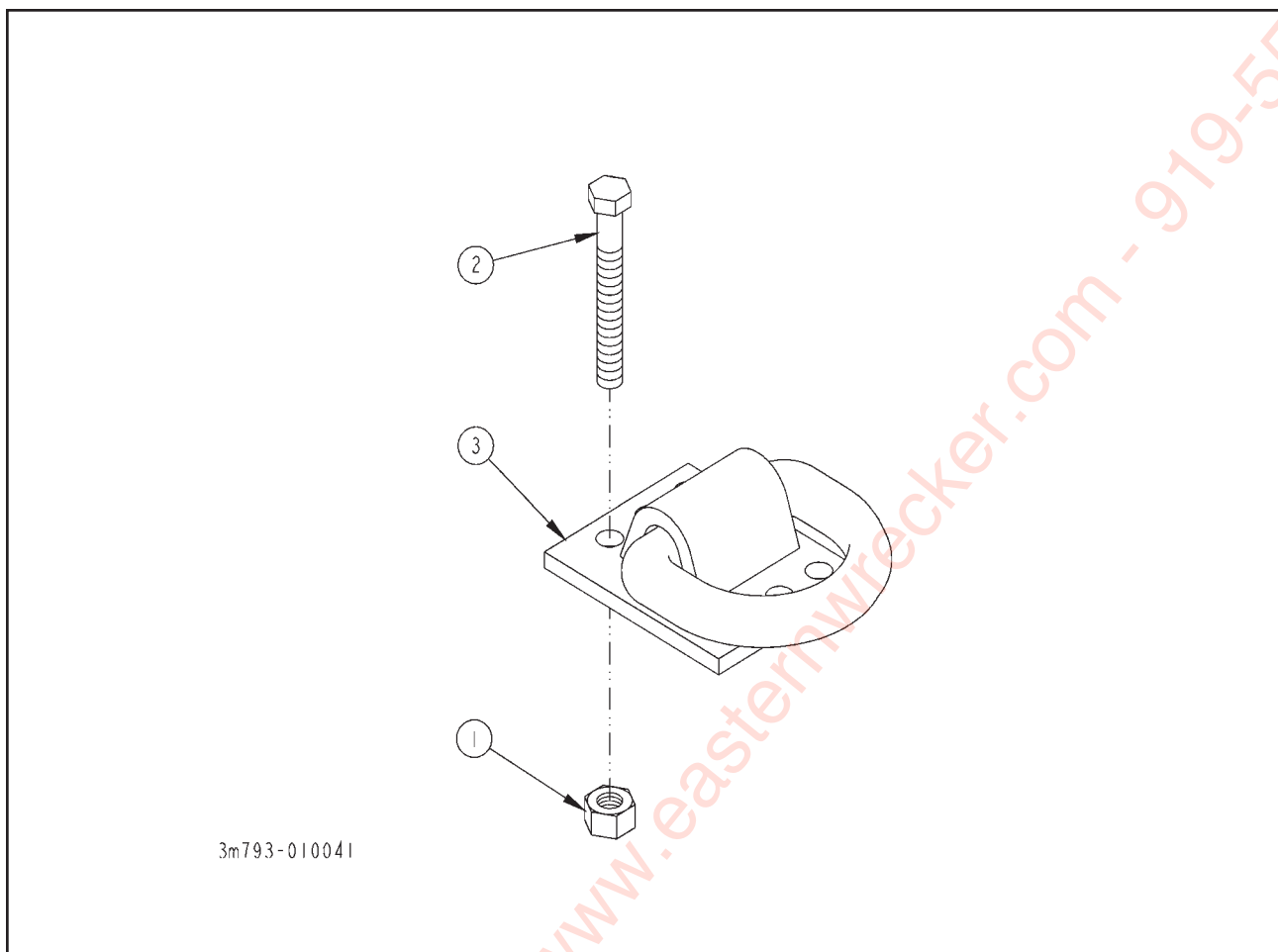


Figure 1-59 D-Ring Installations (Option)

## D-RING INSTALLATIONS (OPTION)

| ITEM | PART NO.        | DESCRIPTION                                   | QTY. |
|------|-----------------|-----------------------------------------------|------|
|      | 3-793-010041    | TIE DOWN INST., WINCH D-RING (INCL ITEMS 3-5) |      |
| 1    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB                      | 1    |
| 2    | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5        | 10   |
| 3    | 3-793-010040    | TIE DOWN, WINCH                               | REF  |

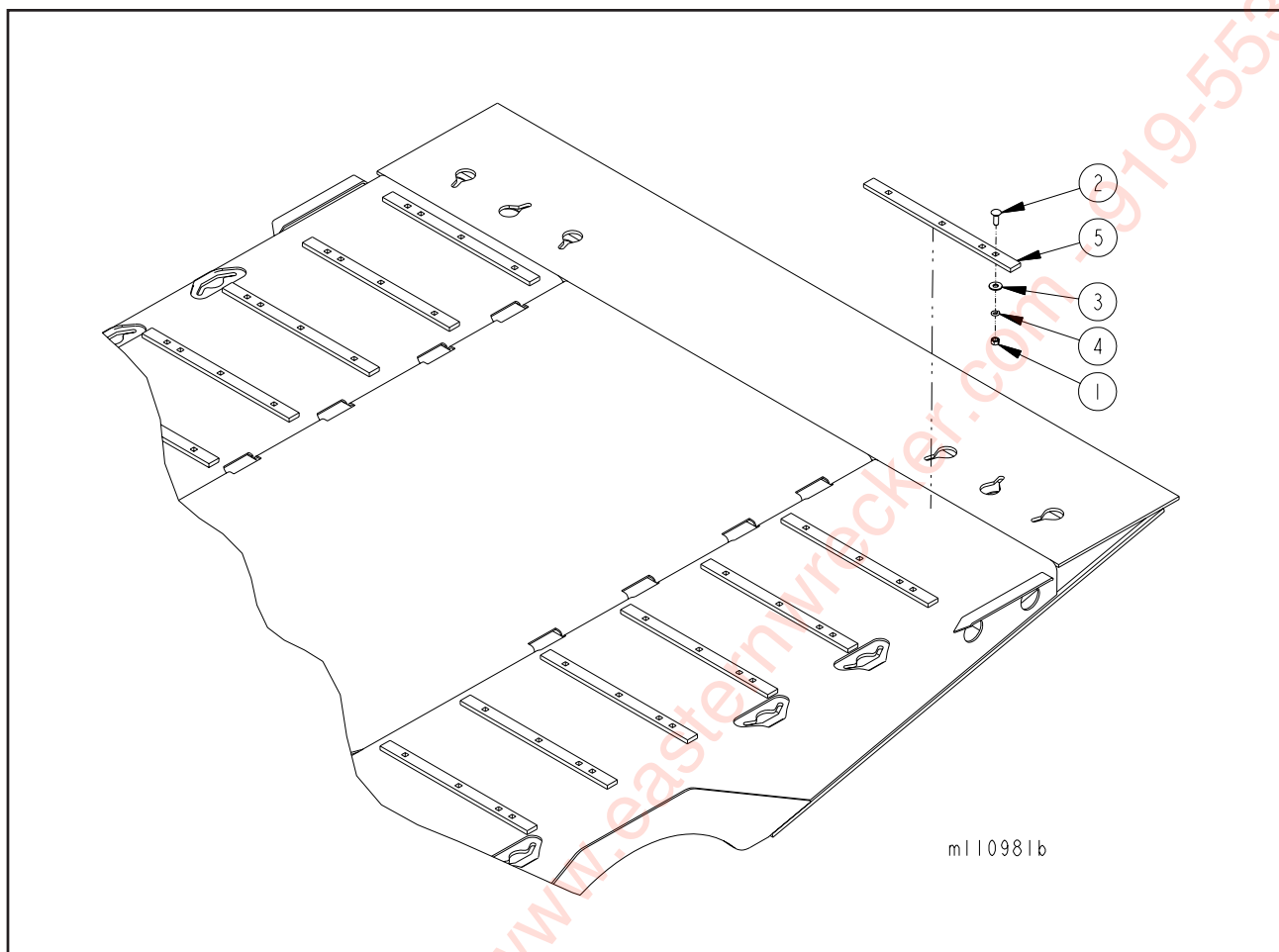


Figure 1-60 Traction Bar Assembly (Option)

## TRACTION BAR ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                       | QTY. |
|------|-----------------|-----------------------------------|------|
|      | 109221          | TRACTION BAR ASSEMBLY             |      |
| 1    | 1-512-010007-09 | NUT, HEX 1/2-13                   | 3    |
| 2    | 1-654-010070-09 | SCREW, RD HEAD SQ NECK 1/2-13 X 3 | 3    |
| 3    | 1-861-010032-15 | WASHER FLAT 1/2                   | 3    |
| 4    | 1-861-010034-13 | WASHER, SPLIT LOCK 1/2            | 3    |
| 5    | 109211          | BAR, TRACTION                     | 1    |

**NOTE:**

12' TAIL REQUIRES 10 PER SIDE @ 12" CENTERS  
 14' TAIL REQUIRES 12 PER SIDE @ 12" CENTERS  
 15' TAIL REQUIRES 13 PER SIDE @ 12" CENTERS

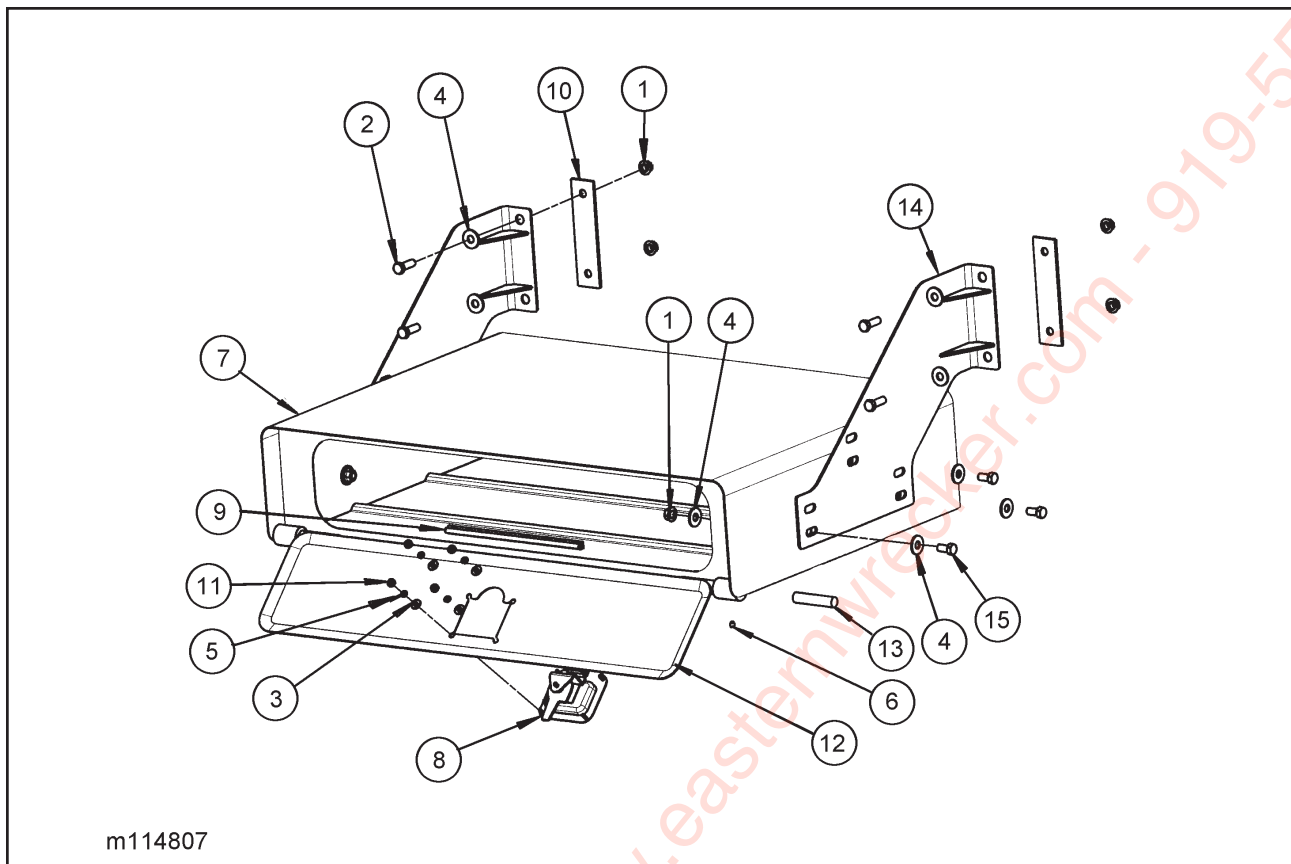


Figure 1-61 Toolbox Installation (Option)

## TOOLBOX INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 114807          | TOOLBOX INSTALLATION STEEL DOOR        | 1    |
|      | 116628          | TOOLBOX INSTALLATION ALUMINUM DOOR     | 1    |
| 1    | 1-510-010003-09 | NUT, FLANGE HEAD SERRATED 1/2-13       | 10   |
| 2    | 1-654-010055-03 | SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5 | 4    |
| 3    | 1-861-010032-07 | WASHER, FLAT 1/4W                      | 4    |
| 4    | 1-861-010032-15 | WASHER, FLAT 1/2W                      | 16   |
| 5    | 1-861-010034-09 | WASHER, SPLIT LOCK 1/4                 | 4    |
| 6    | 107-0975        | SCREW, SET LOCK 5/16-18 X 3/8          | 2    |
| 7    | 114808          | TOOLBOX WELDMENT                       | 1    |
| 8    | 114814          | LATCH, FOLDING T LOCKABLE              | 1    |
| 9    | 114815          | SEAL SPONGE RUBBER TRIM                | 7    |
| 10   | 115843          | BAR, BACKUP TOOLBOX MOUNTING           | 2    |
| 11   | 115877          | NUT, HEAVY HEX 1/4-20 GR5              | 4    |
| 12   | 116623          | DOOR WELDMENT STEEL TOOLBOX            | 1    |
|      | 116624          | DOOR WELDMENT ALUMINUM TOOLBOX         | 1    |
| 13   | RPRB59004X3H    | BAR ROUND, 3/4DIA X 3-1/2 NYLATRON     | 2    |
| 14   | 117860          | BRACKET WELDMENT TOOLBOX MOUNTING      | 2    |
| 15   | 1-654-010055-01 | SCREW, HEX HEAD CAP 1/2-13 X 1 GR5     | 6    |



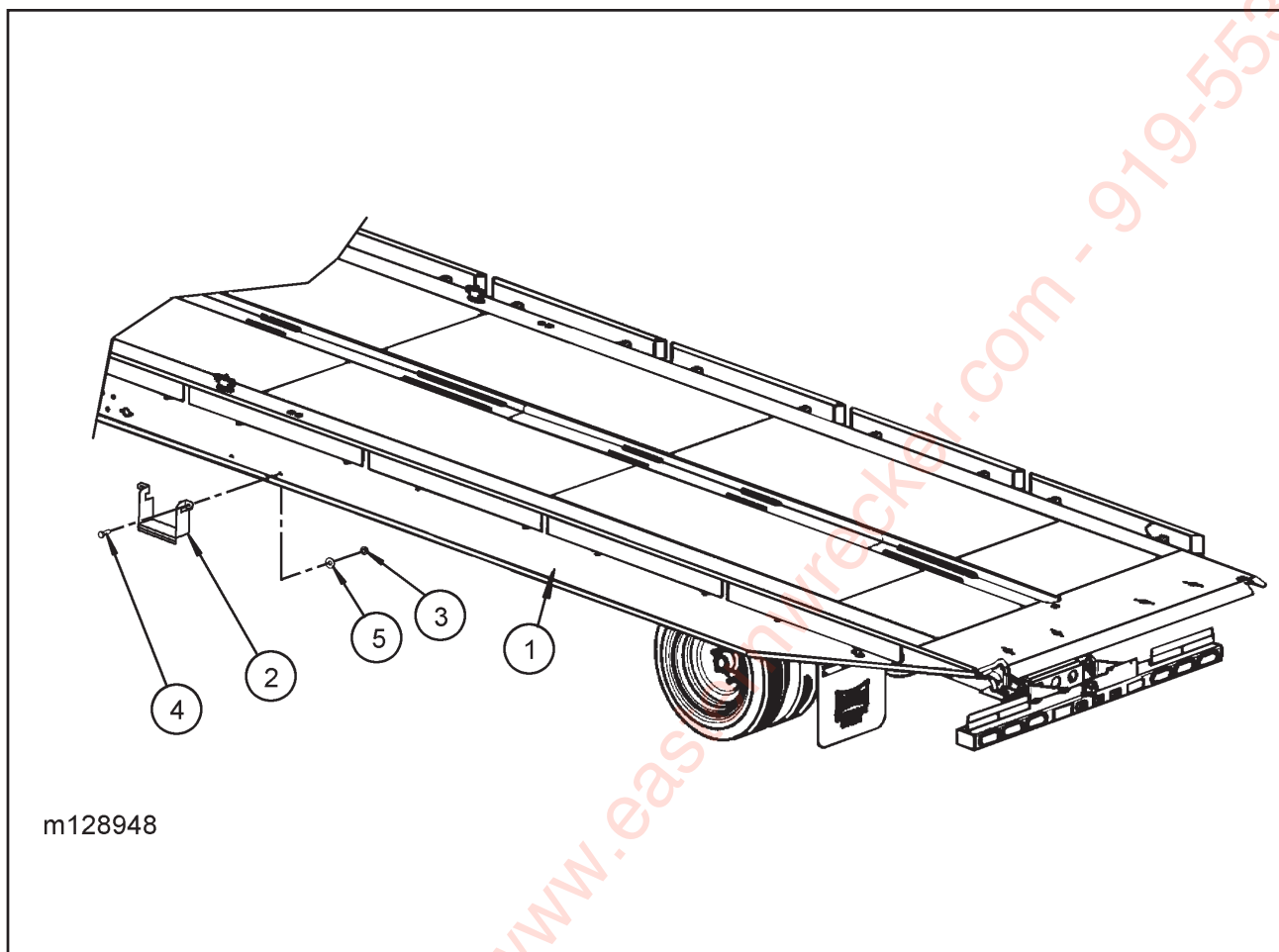


Figure 1-62 Step Assembly (Option)

## STEP ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                           | QTY. |
|------|-----------------|---------------------------------------|------|
|      | 128948          | STEP ASSEMBLY                         |      |
| 1    | 128199          | FRAME WELDMENT                        | REF  |
| 2    | 128812          | STEP, MID                             | 1    |
| 3    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB              | 2    |
| 4    | 1-654-010070-02 | SCREW, RD HEAD SQ NECK 1/2-13 X 1-1/4 | 2    |
| 5    | 1-861-010032-15 | WASHER, FLAT 1/2W                     | 2    |

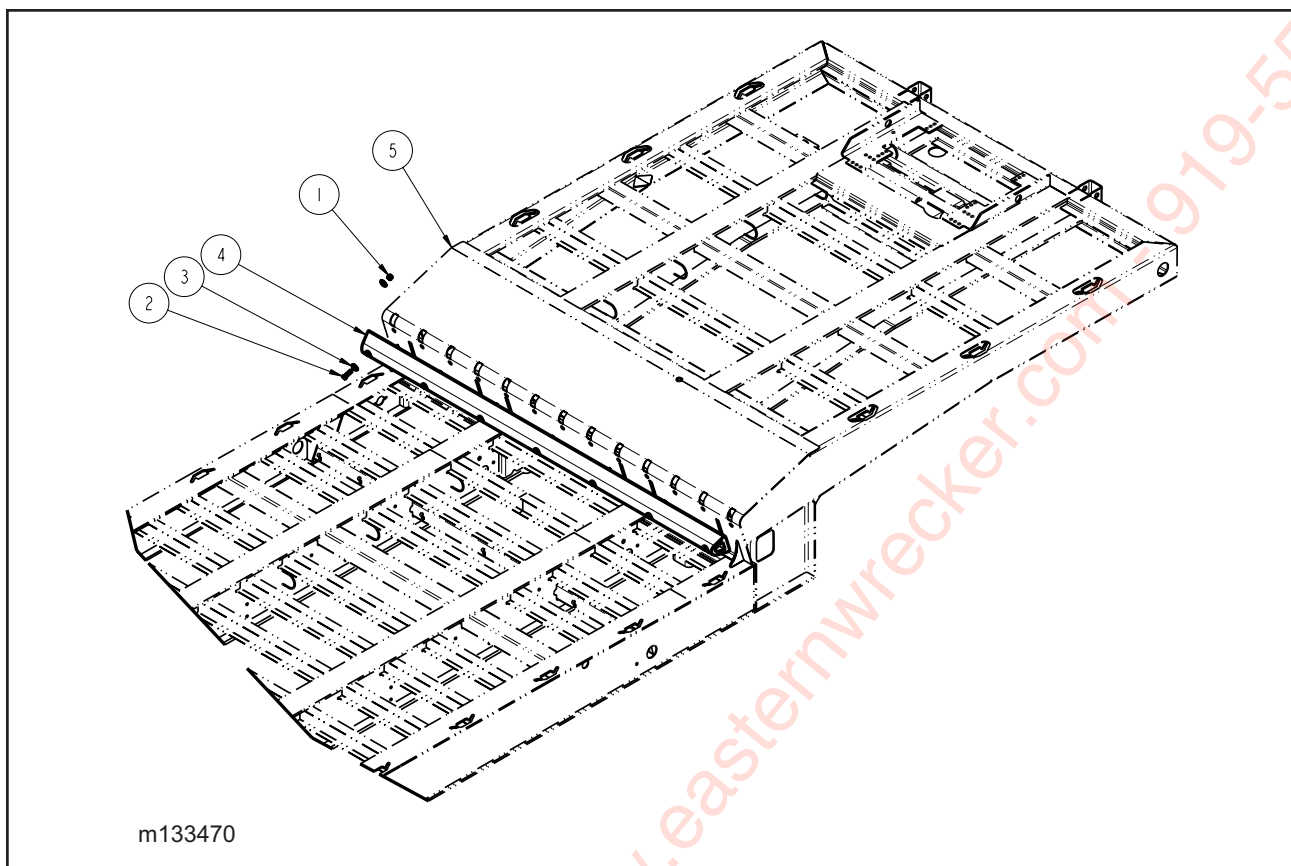


Figure 1-63 Rubber Bumper Stop (Option)

## RUBBER BUMPER STOP (OPTION)

| ITEM | PART NO.        | DESCRIPTION                        | QTY. |
|------|-----------------|------------------------------------|------|
|      | 133470          | RUBBER BUMPER STOP                 |      |
| 1    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB           | 7    |
| 2    | 1-654-010055-05 | SCREW, HEX HEAD CAP 1/2-13 X 2 GR5 | 7    |
| 3    | 1-861-010032-15 | WASHER, FLAT 1/2W                  | 14   |
| 4    | 106611          | BUMPER, REAR TRAILER               | 1    |
| 5    | 113378          | FRAME WELDMENT                     | REF  |

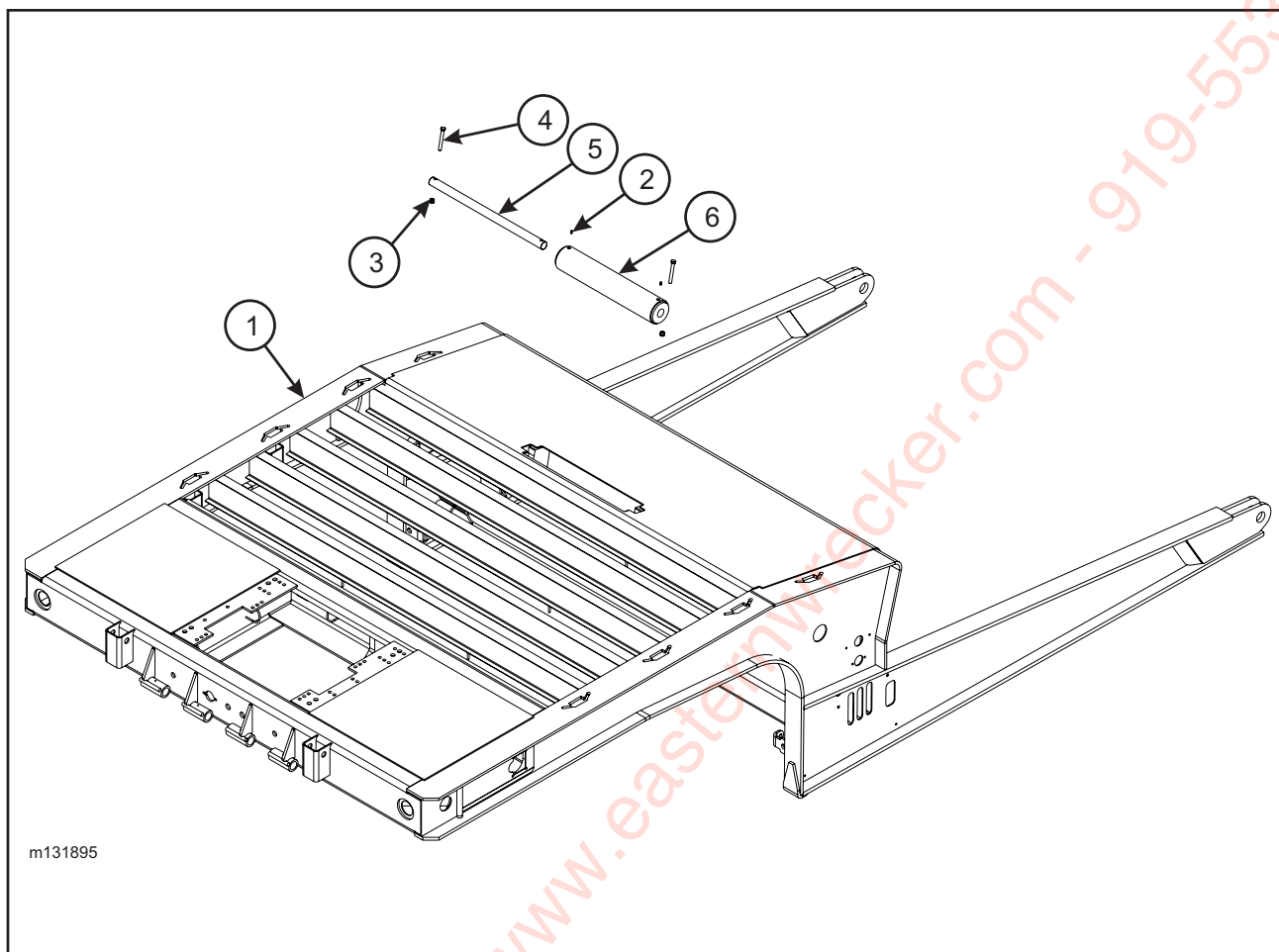


Figure 1-64 Upper Deck Roller Installation (Option)

## UPPER DECK ROLLER INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION                        | QTY. |
|------|-----------------|------------------------------------|------|
|      | 131895          | UPPER DECK ROLLER INSTALLATION     |      |
| 1    | ----            | GOOSENECK WELDMENT                 | REF  |
| 2    | 1-298-010001-1  | FITTING, GREASE 1/4-28             | 2    |
| 3    | 1-512-010005-09 | NUT, HEX LOCK 1/2-13 GRB           | 2    |
| 4    | 1-654-010055-13 | SCREW, HEX HEAD CAP 1/2-13 X 4 GR5 | 2    |
| 5    | 3-642-010134    | ROLLER ROD                         | 1    |
| 6    | 3-645-010059    | ROLLER WELDMENT, CABLE UPPER DECK  | 1    |

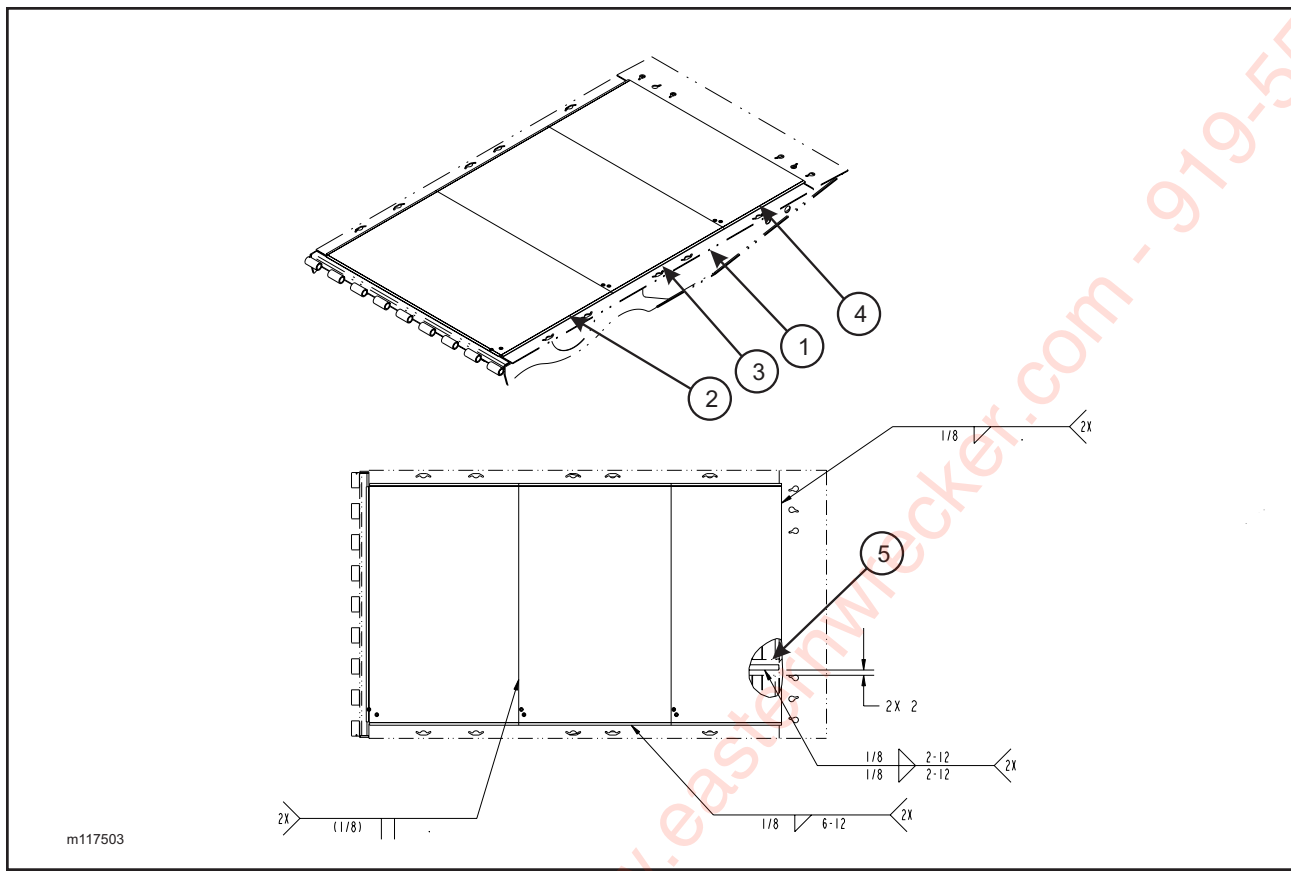


Figure 1-65 3 Deck Tread Grip/ Over Wood 15' Tail (Option)

## DECK TREAD GRIP/ OVER WOOD 15' TAIL (OPTION)

| ITEM | PART NO. | DESCRIPTION                         | QTY. |
|------|----------|-------------------------------------|------|
|      | 117503   | DECK TREAD GRIP/ OVER WOOD 15' TAIL |      |
| 1    | 113427   | TAIL WELDMENT, 15' WOOD DECK        | REF  |
| 2    | 117504   | PLATE, TREAD GRIP 58 X 92 FRONT     | 1    |
| 3    | 117505   | PLATE, TREAD GRIP 58 X 92           | 1    |
| 4    | 117506   | PLATE, TREAD GRIP 42 X 92           | 1    |
| 5    | 117507   | BAR, FLAT 1/4 X 2 X 156             | 2    |

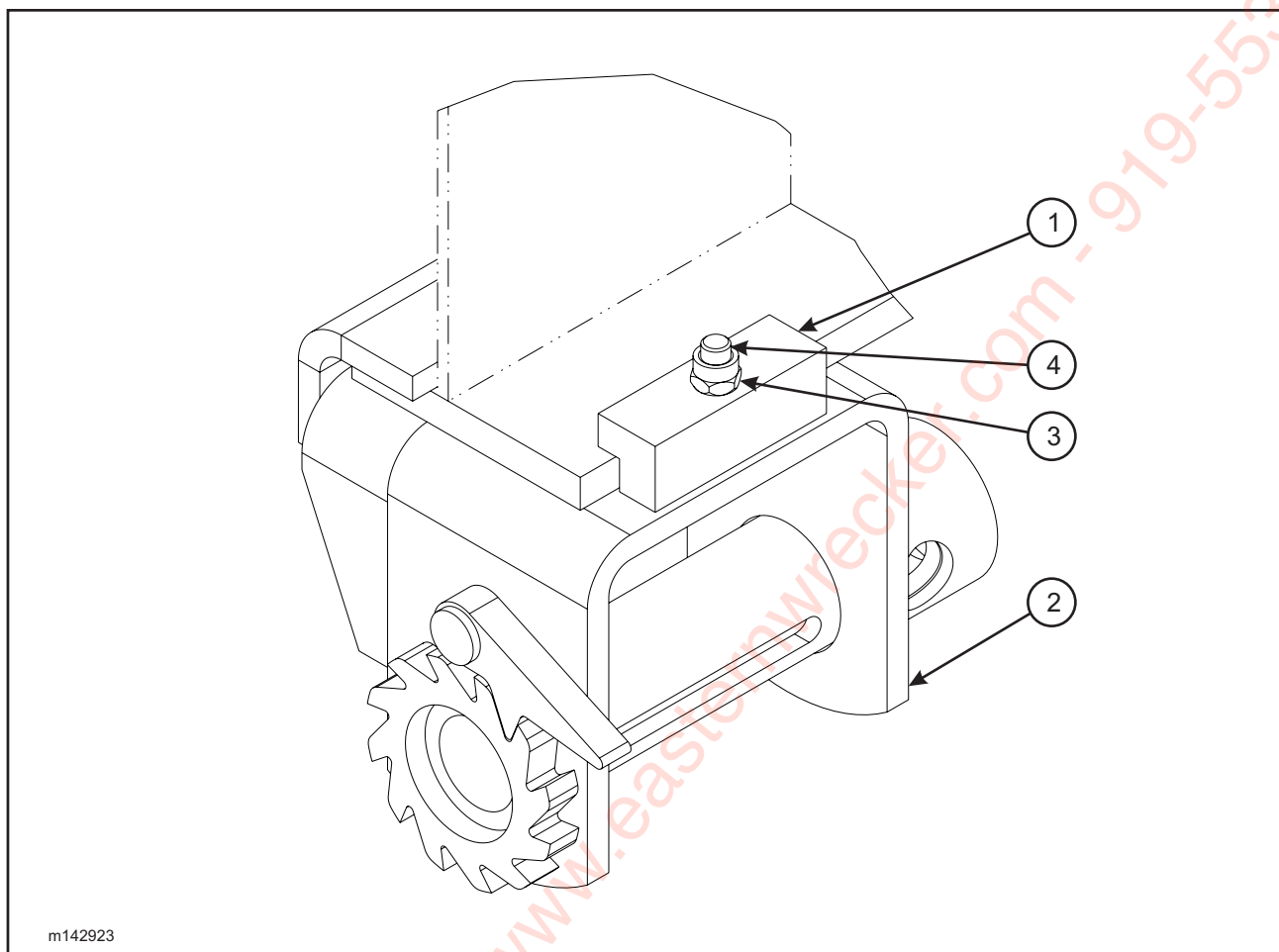


Figure 1-66 4" Webbing Sliding Winch Assembly (Option)

## 4" WEBBING SLIDING WINCH ASSEMBLY (OPTION)

| ITEM | PART NO.        | DESCRIPTION                        | QTY. |
|------|-----------------|------------------------------------|------|
|      | 142923          | WINCH ASSEMBLY, 4" WEBBING SLIDING |      |
| 1    | 134781          | CLAMP, SLIDING WEB WINCH           | 1    |
| 2    | 142924          | WINCH, WEBBING SLIDE MODIFICATION  | 1    |
| 3    | 1-512-010005-05 | NUT, HEX LOCK 3/8-16 GRB           | 1    |
| 4    | 1-654-010051-09 | SCREW, HEX HEAD CAP 3/8-16 X 2 GR5 | 1    |

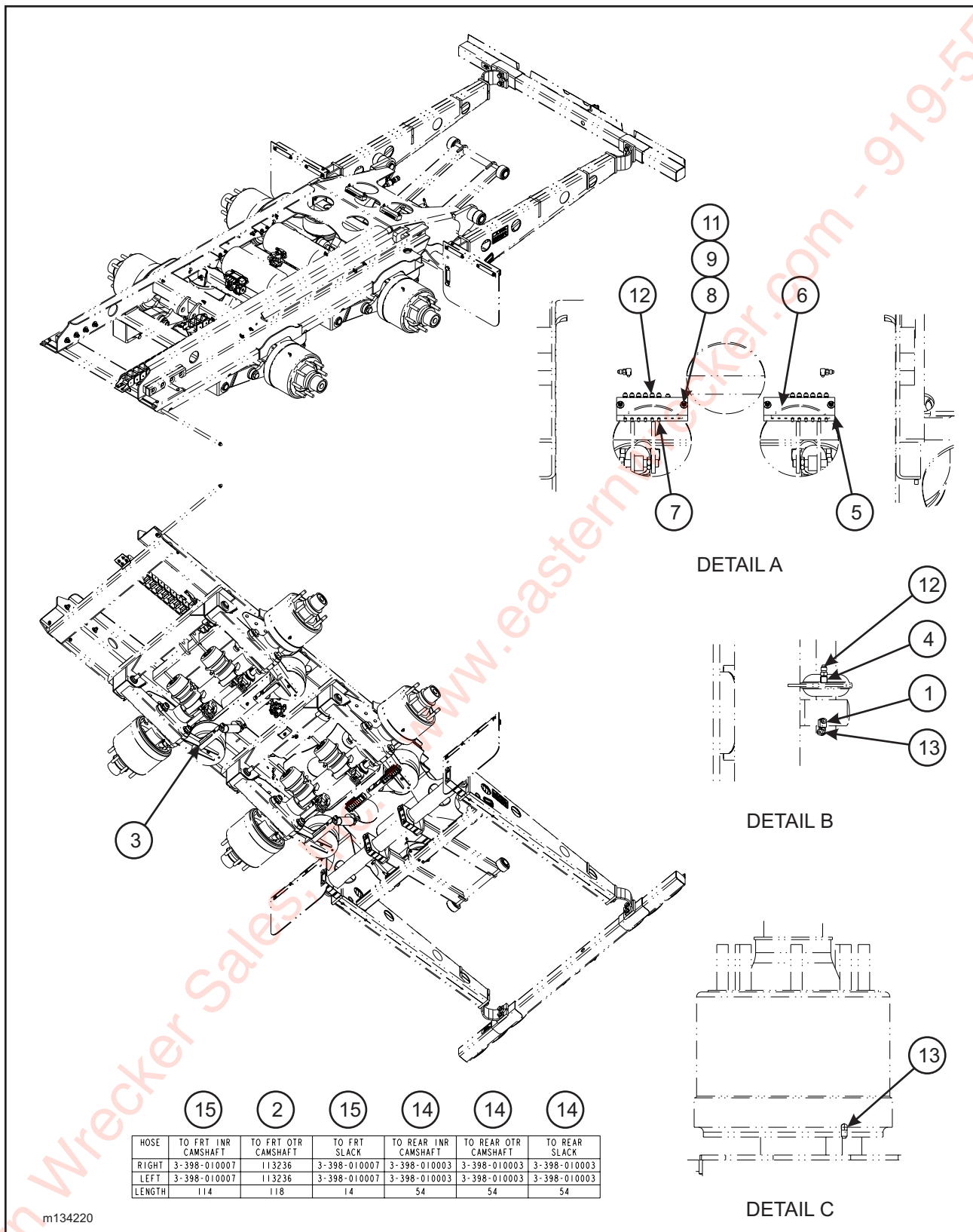


Figure 1-67 U/C Grease System (Tandem)

## U/C GREASE SYSTEM (TANDEM) (OPTION)

| ITEM | PART NO.        | DESCRIPTION                            | QTY. |
|------|-----------------|----------------------------------------|------|
|      | 134220          | U/C GREASE SYSTEM (TANDEM)             |      |
| 1    | 101528          | ELBOW, BRASS PIPE STREET               | 4    |
| 2    | 113236          | HOSE ASSEMBLY, GREASE X 118            | 2    |
| 3    | 113561          | SUSPENSION ASSEMBLY, 15' TAIL          | REF  |
| 4    | 121355          | ELBOW, 90                              | 4    |
| 5    | 121356          | BLOCK, GREASE REMOTELY                 | 2    |
| 6    | 131199          | DECAL, GREASE U/C                      | 1    |
| 7    | 1-298-010001-1  | FITTING, GREASE 1/4-28                 | 12   |
| 8    | 1-512-010005-01 | NUT, HEX LOCK 1/4-20 GRB               | 4    |
| 9    | 1-654-010047-12 | SCREW, HEX HEAD CAP 1/4-20 X 2-1/2 GR5 | 4    |
| 10   | 1-796-010003-02 | TIE, STRAP, PLASTIC .18 X 14           | 2    |
| 11   | 1-861-010032-07 | WASHER, FLAT 1/4W                      | 4    |
| 12   | 2021-2-4        | ADAPTER, STRAIGHT                      | 16   |
| 13   | 2024-2-4S       | ADAPTER, ELBOWW                        | 8    |
| 14   | 3-398-010003    | HOSE ASSEMBLY GREASE X 54              | 6    |
| 15   | 3-398-010007    | HOSE ASSEMBLY GREASE X 114             | 4    |

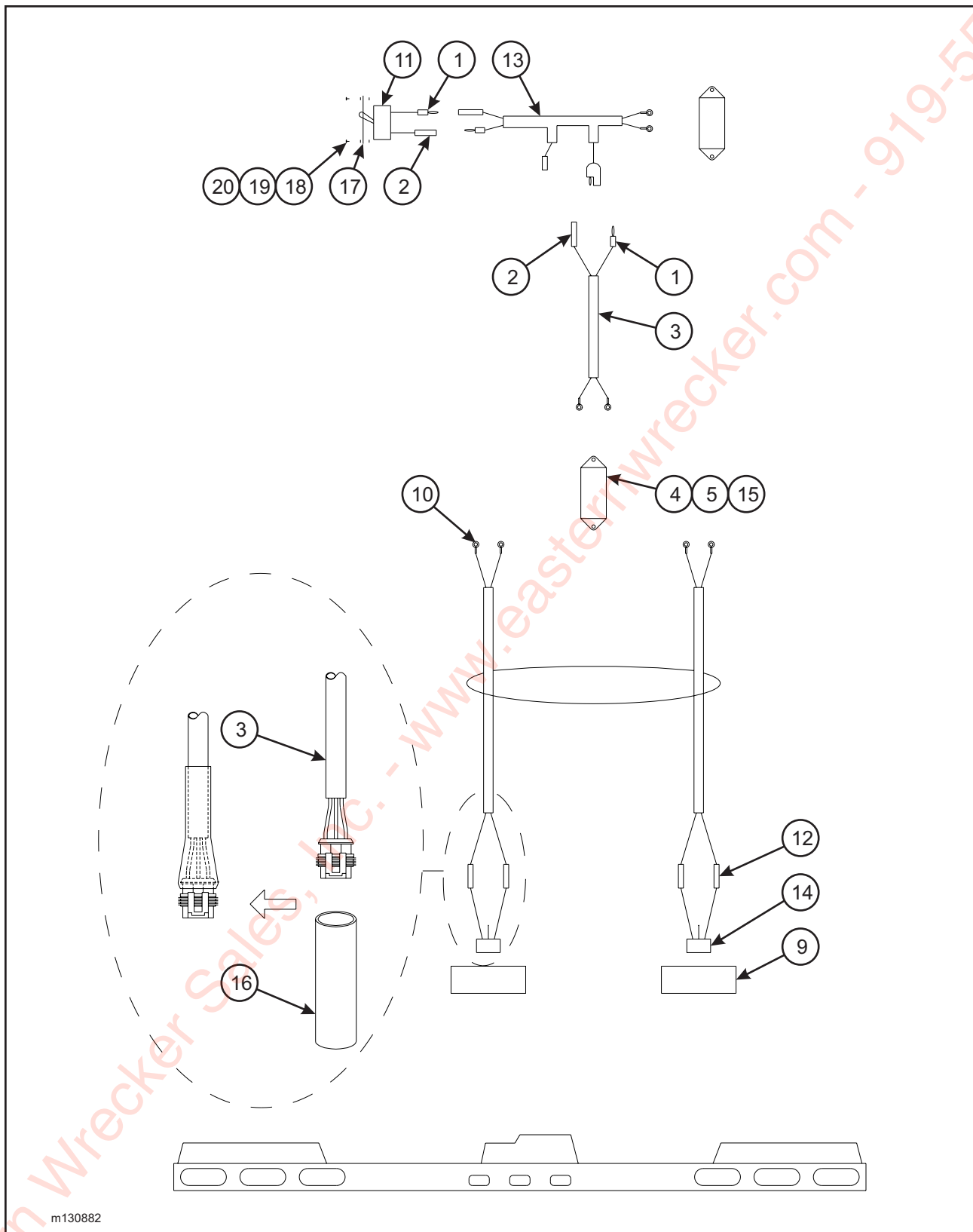


Figure 1-68 Rear Strobe Light Installation (Option)



## REAR STROBE LIGHT INSTALLATION (OPTION)

| ITEM | PART NO.        | DESCRIPTION                         | QTY. |
|------|-----------------|-------------------------------------|------|
|      | 130882          | REAR STROBE LIGHT INSTALLATION      |      |
| 1    | STP-147         | TERMINAL BULLET ELECTRICAL          | 2    |
| 2    | STP-164         | BULLET CONNECTOR, FEMALE            | 2    |
| 3    | W214S-1         | CABLE, 2 WIRE 14 AWG                | 100  |
| 4    | 1-512-010005-01 | NUT, HEX LOCK                       | 2    |
| 5    | 1-654-010047-06 | SCREW, HEX HEAD CAP 1/4-20 GR5      | 2    |
| 6    | 114581          | HARNESS, MOD BUMPER                 | 1    |
| 7    | 114583          | HARNESS, MOD BUMPER LED             | -1   |
| 8    | 121377          | LIGHT, YELLOW LED S/T/T             | -2   |
| 9    | 130883          | LIGHT, OVAL AMBER STROBE LED        | 2    |
| 10   | 239-3646-4      | TERMINAL                            | 6    |
| 11   | 3-272-010017    | TOGGLE SWITCH, SEALED SPST          | 1    |
| 12   | 3-272-010021    | ELECT BUTT SPLICE 16-14 W/ SEAL     | 4    |
| 13   | 3-368-010253    | HARNESS ASSEMBLY, CONTROL PANEL     | 1    |
| 14   | 130884          | PIGTAIL LED                         | 2    |
| 15   | 750-029         | JUNCTION BOX, 7 STUD                | 1    |
| 16   | 0013007         | HEAT SHRINK TUBING                  | AR   |
| 17   | 137987          | MOUNT, ELECTRIC SWITCH              | 1    |
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