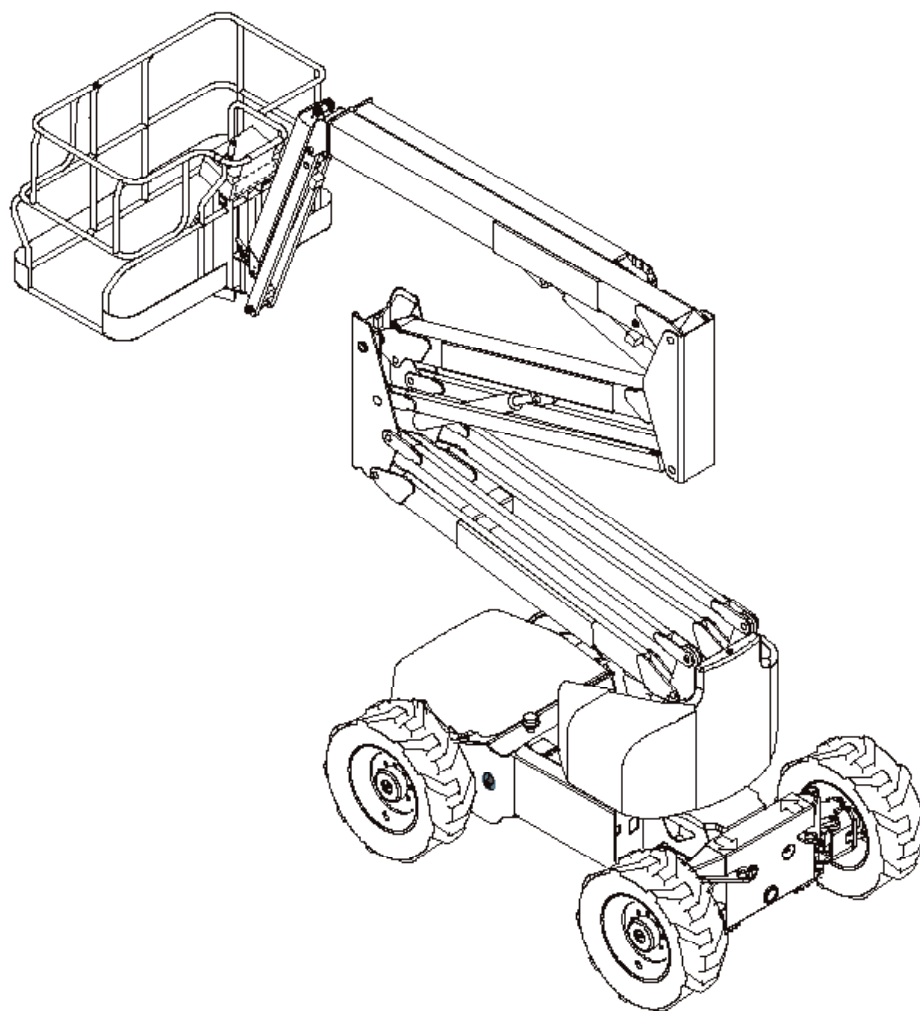


Repair Parts Manual



AB46RT

Part Number 0260507
February 2009
SERIAL 10080+



UpRight

DANGER

The aerial platform is not electrically insulated. Death or serious injury will result from contact with, or inadequate clearance from, an energized conductor.

It is imperative to keep a safe distance from live parts of electrical equipment.

Regard all conductors as energized.

Allow for electrical wire sag and aerial platform sway.

If the platform, boom structure, or any part of the aerial platform contacts a high-voltage electrical conductor, the entire machine can become electrically charged.

If that happens, remain on the machine and do not contact any other structure or object. This includes the ground, adjacent buildings, poles, and any other objects that are not part of the aerial platform.

Such contact could make your body a conductor to the other object, creating an electrical shock hazard resulting in death or serious injury.

If an aerial platform is in contact with an energized conductor the platform operator must warn ground personnel in the vicinity to stay away. Their bodies can conduct electricity creating an electrical shock hazard resulting in death or serious injury.

Do not approach or leave the aerial platform until the electricity has been turned off.

Do not attempt to operate the lower controls when the platform, scissors structure, or any part of the aerial platform is in contact with a high-voltage electrical conductor or if there is an immediate danger of such contact.

Personnel on or near an aerial platform must be continuously aware of electrical hazards, recognizing that death or serious injury can result from contact with an energized conductor.

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Appendix

Electrical Schematic

Hydraulic Schematic

General Information

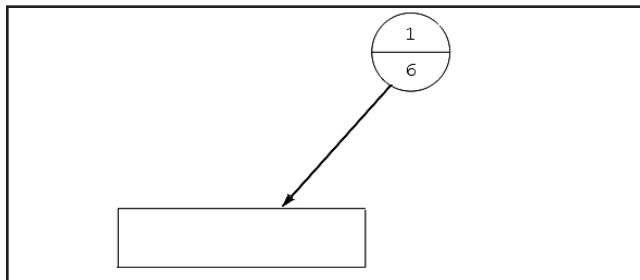
About This Manual

This manual covers AB46RT aerial platform. Information is included for machines that have been manufactured to conform to all applicable requirements of the following organizations:

- American National Standards Institute (ANSI)
- Canadian Standards Association (CSA)
- European Committee for Standardization (CE)

Part pages include a drawing and a bill of material. The bill of material lists the item number that is on the drawing, the UpRight part number, quantity used and a description of the item.

Some callouts in the drawings may have a balloon with two numbers. The top number is the item number and the bottom number is the quantity of the item at that location.



While UpRight has attempted in every way to confirm that all information in this manual is correct, improvements are being constantly made to the machine that may not be reflected in this manual.

If you find information in this manual that is not correct or is confusing, you are urged to report your findings to UpRight for our evaluation. Your input is important to us and will be used in future printings of this manual.

This machine is covered by a limited warranty that specifically identifies items warrantied by UpRight and those items covered by original manufacturer's warranty.

Repairs and Maintenance

Every person who maintains, inspects, tests or repairs the machine must be qualified and authorized to do so.

Caution

Do not modify this aerial platform without prior written consent of the UpRight Engineering Department. Modification may void the warranty, adversely affect stability or affect the operational characteristics of the aerial platform.

Abbreviations

The following abbreviations may be used in this manual.

| | |
|------|---------------------------------------|
| AC | alternating current |
| ANSI | American National Standards Institute |
| AR | as required |
| CCA | cold cranking amps |
| cm | centimeter |
| DC | direct current |
| ft | feet |
| GFCI | ground fault circuit interruptor |
| in | inch |
| lbs | pounds |
| mm | millimeter |
| no | number |
| NPT | national pipe thread |
| psi | pounds per square inch |
| qty | quantity |
| rpm | revolutions per minute |
| UL | Underwriters Laboratories Inc. |

Additional Information

All correspondence relative to this machine, such as field reports, discrepancy reports, requests for information, etc., should be directed to:

UpRight Powered Access HQ
Vigo Centre
Birtley Road
Washington
Tyne & Wear
NE38 9 DA

Phone: +44 (0) 845 1550 058

<http://www.upright.com>

Service and Parts Information

Ordering Parts

When placing an order for service or repair parts, please have the following machine information readily available.

- Model number
- Serial number
- UpRight part number
- Description of part
- Quantity of parts required
- Your purchase order number
- Address for order to ship to
- The desired shipment method

The parts order form on the following page may be mailed or faxed to the attention of the Parts Department at the following location:

UpRight Powered Access HQ
Vigo Centre
Birtley Road
Washington
Tyne & Wear
NE38 9 DA

Phone: +44 (0) 845 1550 058
Fax: +44 (0) 1952 607 678

Attention: Parts Department

For your convenience, our electronic on-line ordering system is available at the following Internet location:

<http://www.upright.com>

Manuals

Manuals are available from UpRight to support any of the machines that we produce.

The specific manuals for AB46RT aerial platforms are as follows:

AB46RT Operator Manual

UpRight part number – 0260228

AB46RT Repair Parts Manual

UpRight part number – 0260507

Machine Information

Model Number: _____

Serial Number: _____

Date of Purchase: _____

Purchased From: _____

UpRight Dealer or Distributor: _____

Parts Order Form

Fill out completely and fax to +44 (0) 1952 607 678, attention Parts Department.

Date: _____

Account Number: _____

Company: _____

Purchase Order Number: _____

Address: _____

Model Number: _____

Serial Number: _____

Ship To: _____

Contact Name: _____

Phone Number: _____

Fax Number: _____

Shipping Method: _____

| Part Number | Description | Quantity |
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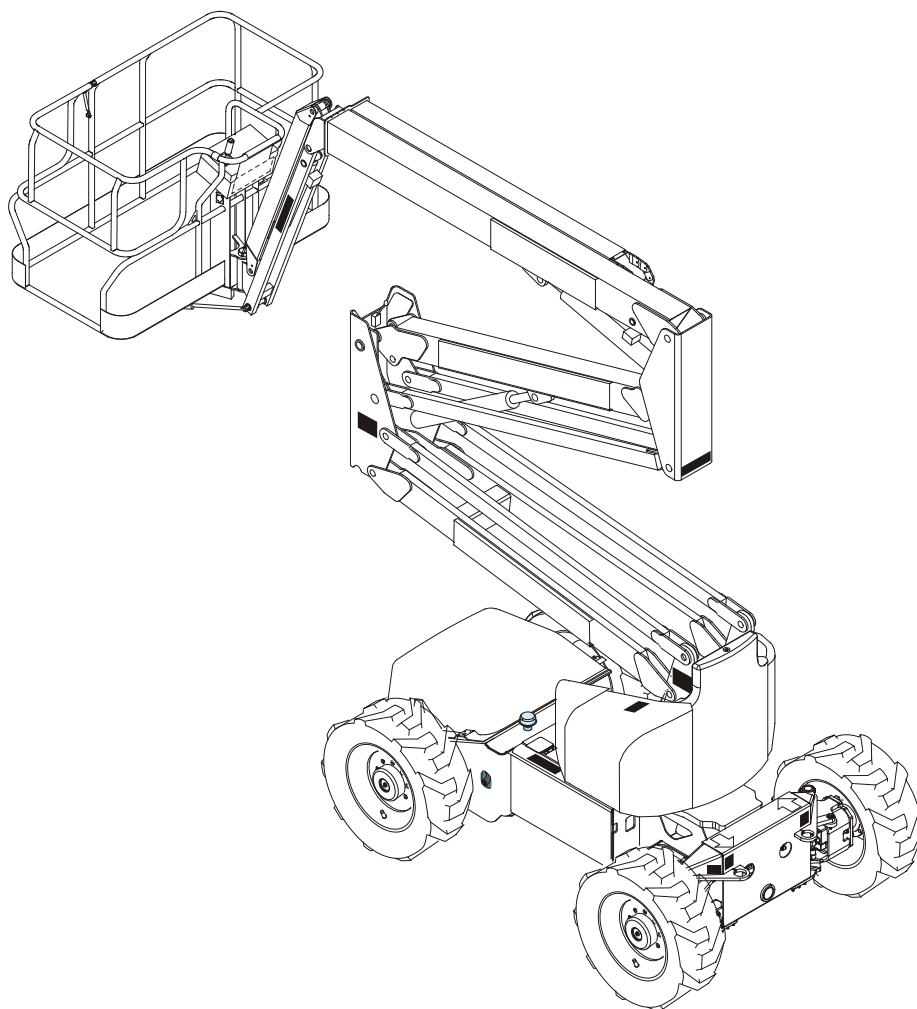
Note: Backordered parts will be shipped as soon as available using the same shipping method as the original order unless otherwise indicated below.

☐ Ship complete order only. Do not backorder parts.

☐ Ship all available parts and disposition of backordered parts.

☐ Other instructions as specified: _____

Repair Parts



AB46RT

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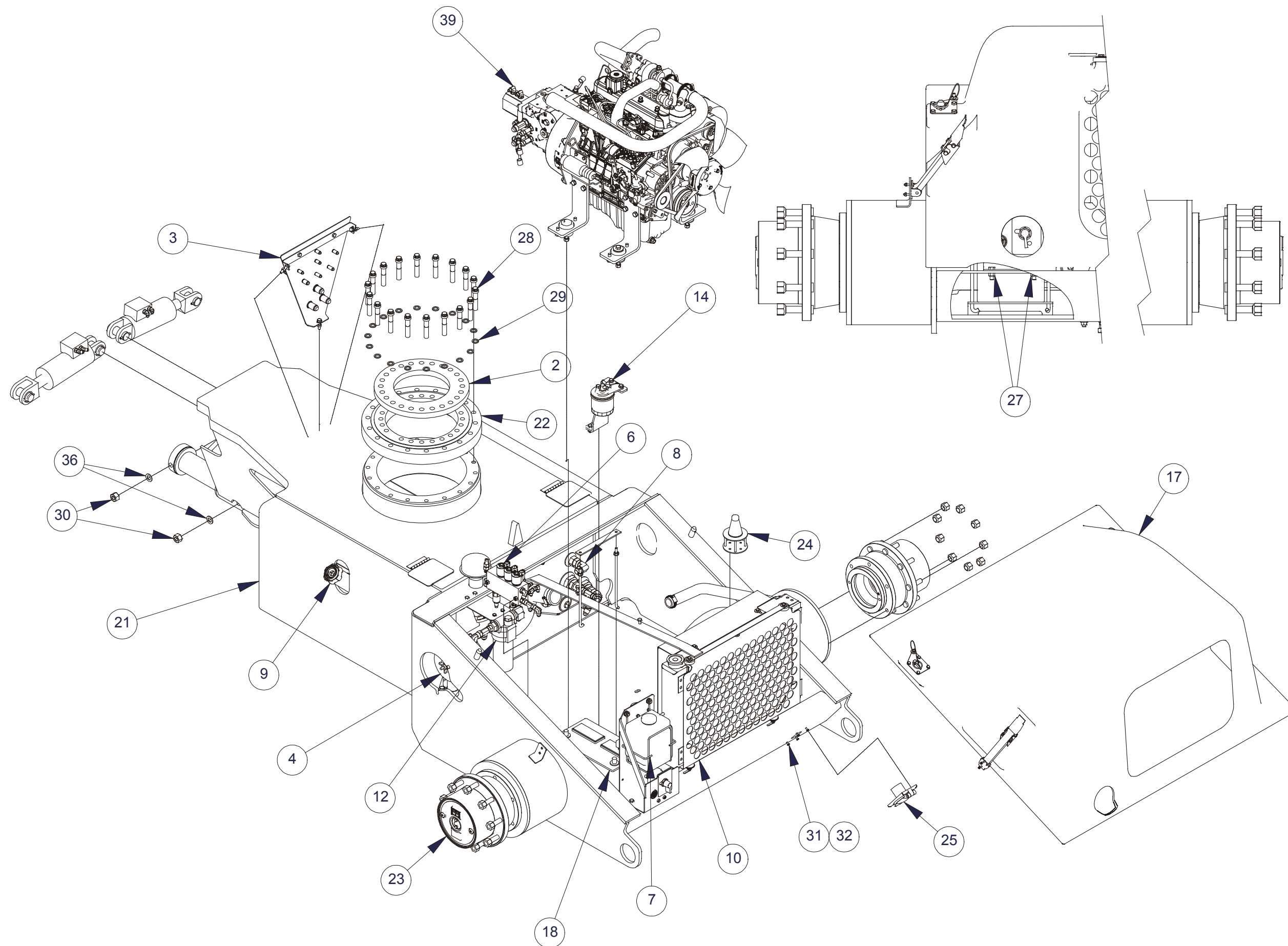
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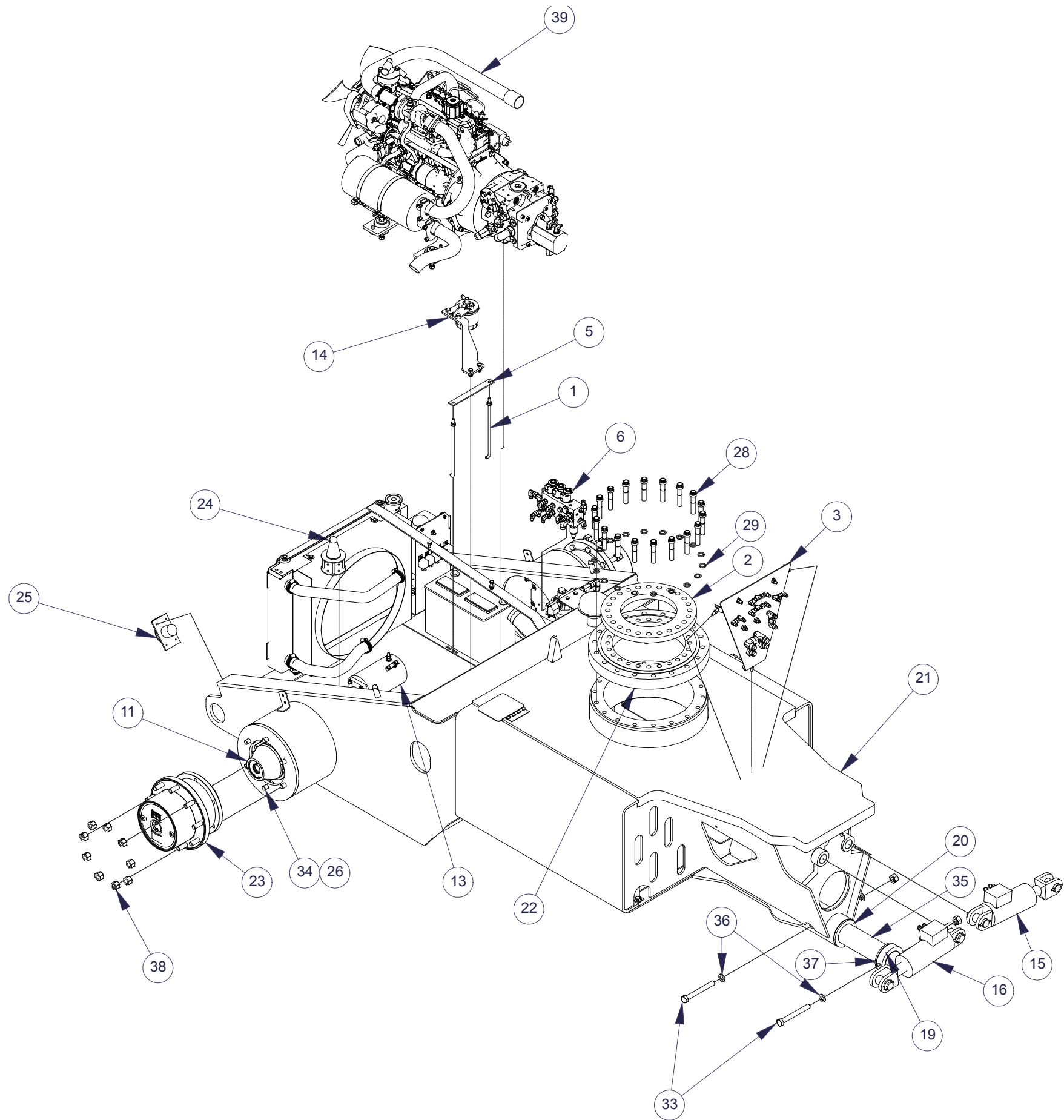
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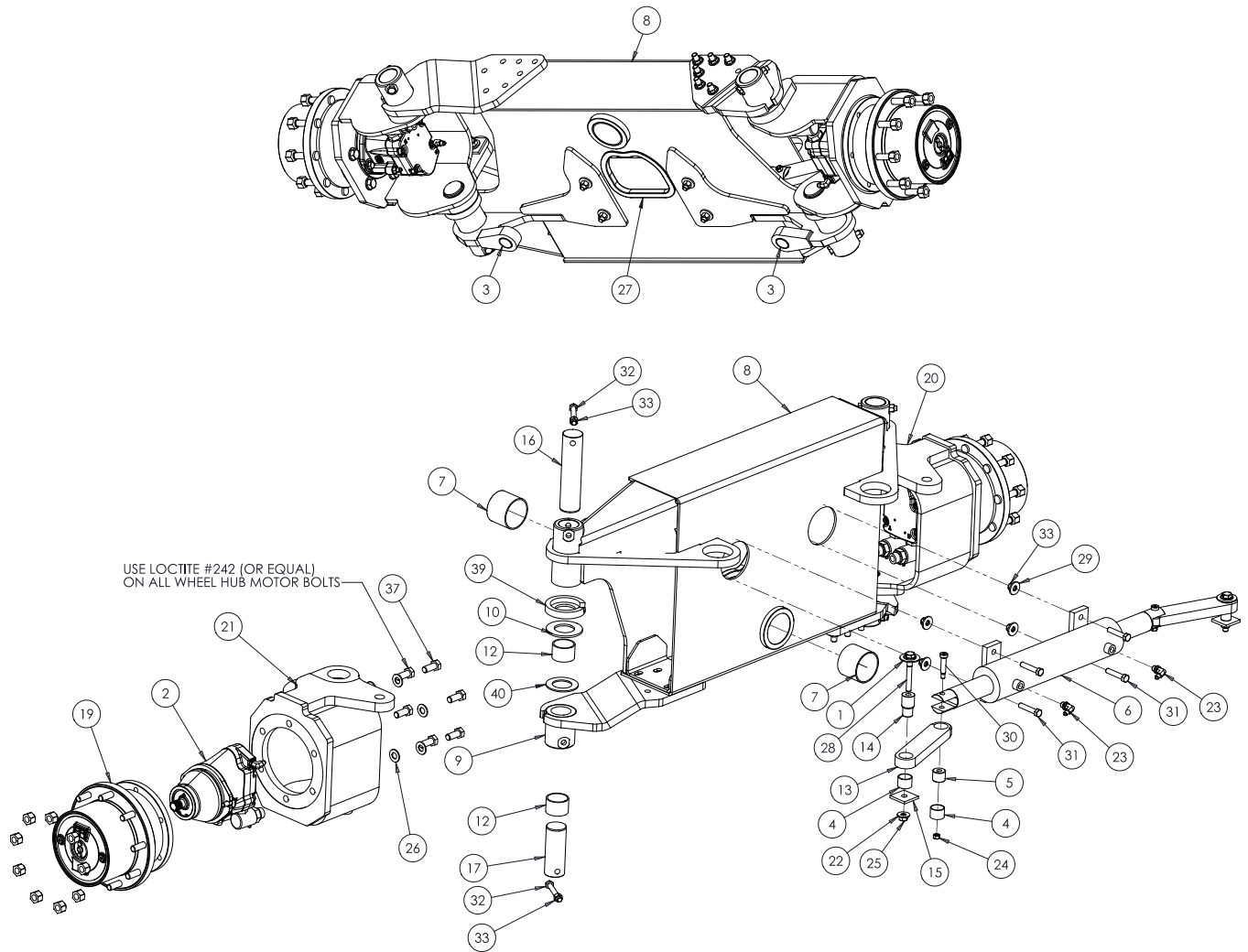
Chassis Assembly

| Item | Part No. | Qty. | Description |
|------|---------------|------|------------------------------------------------------------------|
| 1 | 012039-000 | 2 | BATTERY HOLD DOWN BOLT |
| 2 | 0260062 | 1 | INNER RING |
| 3 | 0260102 | 1 | HYDRAULIC BULKHEAD (REFER TO HYDRAULICS – 3) |
| 4 | 0260116 | 1 | AIR CLEANER ASSEMBLY (REFER TO REPAIR PARTS – 41) |
| 5 | 0260139 | 1 | BAR, BATTERY HOLD DOWN |
| 6 | 0260218 | 1 | BRAKE RELEASE VALVE ASSEMBLY (REFER TO HYDRAULICS – 15) |
| 7 | 0260220 | 1 | RADIATOR OVERFLOW ASSEMBLY (REFER TO REPAIR PARTS – 49) |
| 8 | 0260237 | 1 | HYDRAULIC TANK ASSEMBLY (REFER TO HYDRAULICS – 5) |
| 9 | 0260238 | 1 | FUEL TANK ASSEMBLY (REFER TO REPAIR PARTS – 51) |
| 10 | 0260258 | 1 | RADIATOR ASSEMBLY (REFER TO REPAIR PARTS – 47) |
| 11 | 0260263 | 2 | REAR DRIVE MOTOR ASSEMBLY (REFER TO HYDRAULICS – 13) |
| 12 | 0260272 | 1 | HYDRAULIC OIL PRESSURE FILTER ASSEMBLY (REFER TO HYDRAULICS – 7) |
| 13 | 0260278 | 1 | EMERGENCY POWER UNIT ASSEMBLY (REFER TO HYDRAULICS – 47) |
| 14 | 0260279 | 1 | FUEL FILTER BRACKET ASSEMBLY (REFER TO REPAIR PARTS – 45) |
| 15 | 0260282 | 1 | AXLE CYLINDER ASSEMBLY, LEFT (REFER TO HYDRAULICS – 25) |
| 16 | 0260290 | 1 | AXLE CYLINDER ASSEMBLY, RIGHT (REFER TO HYDRAULICS – 23) |
| 17 | 0260293 | 1 | ENGINE COWLING ASSEMBLY (REFER TO REPAIR PARTS – 53) |
| 18 | 062299-002 | 1 | BATTERY, 12 VOLT |
| 19 | 068847-000 | 1 | AXLE RETAINER |
| 20 | 068869-001 | 2 | THRUST RING |
| 21 | 116313-000 | 1 | CHASSIS WELDMENT |
| 22 | 116322-000 | 1 | ROTATION BEARING |
| 23 | 116324-000 | 2 | HUB, TORQUE DRIVE |
| 24 | 3020103 | 1 | LEVEL SENSOR, 3.5 DEGREE |
| 25 | 3045278 | 1 | OUTLET SWITCH |
| 26 | 5560169 | 12 | WASHER, FLAT HARD .625 SP |
| 27 | 5560727 | 2 | NUT, HEX LKG M8-1.25 |
| 28 | 5563056 | 18 | BOLT, FLGHD M16-2.00 80 MM |
| 29 | 5563058 | 18 | WASHER, FLAT HARD .653 |
| 30 | 5563082 | 2 | NUT, HEX M16-2.00 |
| 31 | 5563098 | 4 | BOLT, HEXHD M4-0.7 X 20 MM |
| 32 | 5563100 | 4 | NUT, HEX M4 |
| 33 | 5563101 | 2 | BOLT, HEXHD M16-2.00 X 130 MM |
| 34 | 5563117 | 12 | BOLT, HEXHD 5/8-11 X 1 1/4 GR8 |
| 35 | 116313-000-39 | 1 | PIN, AXLE PIVOT |
| 36 | 5569838 | 4 | WASHER, FLAT M16 |
| 37 | 0260439 | 1 | THRUST RING SHIM |
| 38 | 011469-006 | 18 | NUT, HEX LUG .625-11 |
| 39 | 0260291 | 1 | KUKBOTA ENGINE TOP ASSEMBLY (REFER TO REPAIR PARTS – 31) |

116306-000-2

Chassis Assembly

Front Axle Assembly



116309-000-2

Front Axle Assembly

Front Axle Assembly

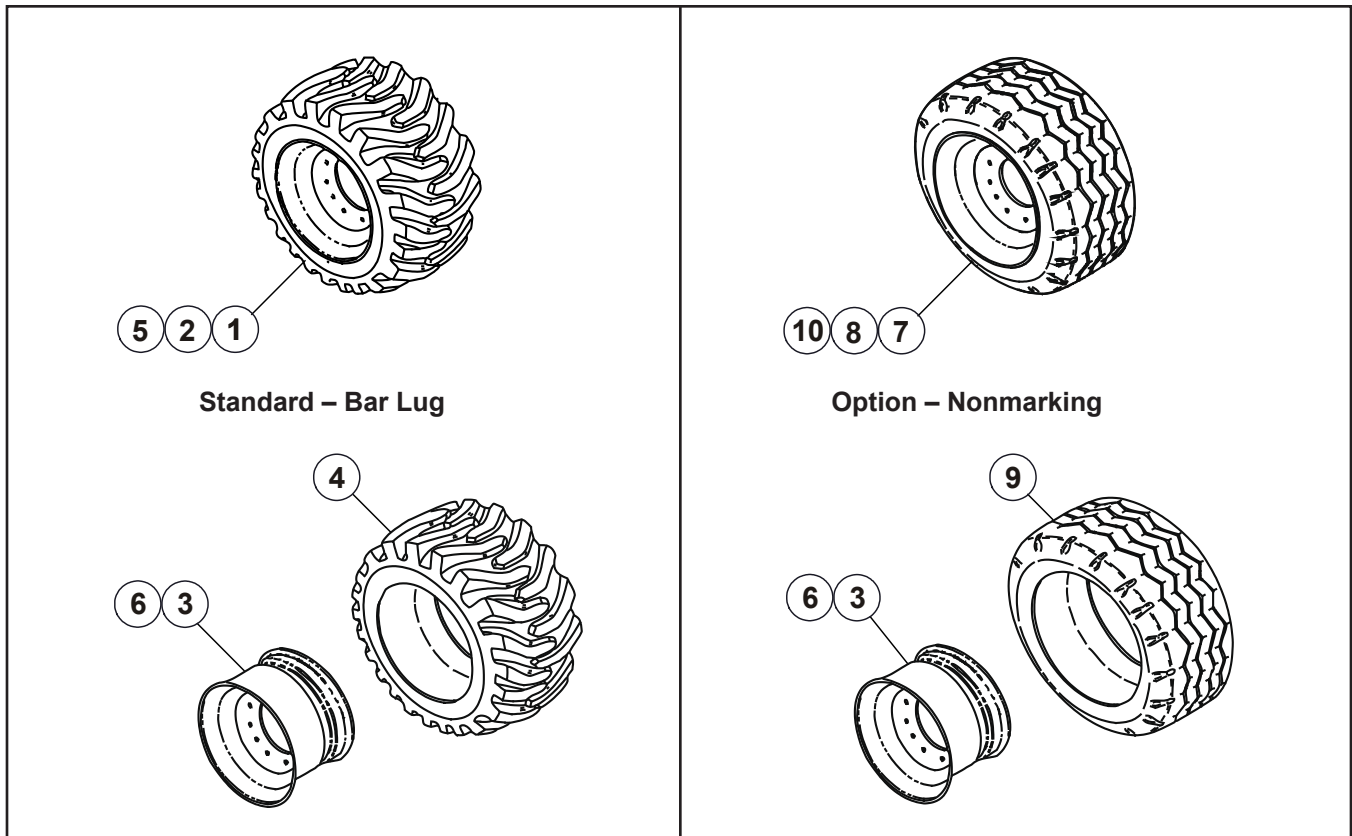
| Item | Part No. | Qty. | Description |
|------|--------------|------|--------------------------------------------------------|
| 1 | 0070148 | 2 | WASHER, .531 ID 2.00 OD .063 |
| 2 | 0260262 | 2 | DRIVE MOTOR ASSEMBLY, FRONT (REFER TO HYDRAULICS – 11) |
| 3 | 062642-023 | 2 | BEARING SLEEVE |
| 4 | 062642-033 | 4 | BEARING SLEEVE |
| 5 | 068380-000 | 2 | STEERING PIN, SHORT |
| 6 | 068456-001-3 | 1 | STEERING CYLINDER (REFER TO HYDRAULICS – 27) |
| 7 | 068576-001 | 2 | BEARING |
| 8 | 068835-001-2 | 1 | FRONT AXLE WELDMENT |
| 9 | 068838-101 | 2 | STEERING PIVOT |
| 10 | 100564-000 | 2 | WASHER, BRONZE THRUST |
| 12 | 068899-001 | 4 | BEARING SLEEVE |
| 13 | 068902-000 | 2 | STEERING LINK |
| 14 | 068905-000 | 2 | PIN, STEERING |
| 15 | 068959-003 | 2 | WASHER, SQ STL 2 X 2 X 1/4 |
| 16 | 109058-000 | 2 | KING PIN UPPER |
| 17 | 109059-000 | 2 | KING PIN LOWER |
| 18 | 109060-000 | 1 | PAD, UHMW |
| 19 | 116324-000 | 2 | HUB, TORQUE DRIVE |
| 20 | 116352-000 | 1 | YOKE WELDMENT, LH |
| 21 | 116352-001 | 1 | YOKE WELDMENT, RH |
| 22 | 986359 | 4 | WASHER FLAT .500 |
| 23 | 5035318 | 2 | FITTING ELBOW 90 STRTHD -6B -4S STL |
| 24 | 5560033 | 2 | NUT, HEX LKG .375-16 |
| 25 | 5560039 | 2 | NUT, HEX LKG .500-13 |
| 26 | 5560169 | 12 | WASHER, FLAT HARD .625 SP |
| 27 | 5560277 | AR | GROMET EDGE COVER (SOLD BY THE FOOT) |
| 28 | 5560668 | 2 | BOLT, HEXHD .500-13 3.75 GR5 |
| 29 | 5560699 | 4 | WASHER, FLAT 12 MM |
| 30 | 5563044 | 2 | BOLT, SKTHD SHLDR .500 1.75 |
| 31 | 5563063 | 4 | BOLT, HEXHD M12-1.75 X 60 MM |
| 32 | 5563065 | 4 | BOLT, HEXHD M12-1.75 X 90 MM |
| 33 | 5563066 | 8 | NUT, HEX LKG M12-1.75 |
| 34 | 5563110 | 6 | BOLT, HEXHD M14X2 65MM GR10.9 |
| 35 | 5563111 | 6 | NUT, HEX M14-2 GR10.9 |
| 36 | 5563112 | 14 | WASHER, FLAT M14 |
| 37 | 5563118 | 12 | BOLT, HEXHD 5/8-11 X 1 1/4 GR8 |
| 38 | 011469-006 | 18 | NUT, HEX LUG .625-11 |
| 39 | 0260483 | 2 | FRONT AXLE, PINION SHOE |
| 40 | 010092-014 | 2 | THRUST WASHER |

116309-000-2

Front Axle Assembly

Tires and Wheels

| Item | Part No. | Qty. | Description |
|----------------------------------------------|--------------|------|------------------------------------------------------------|
| STANDARD – BAR LUG FOAM FILLED TIRES | | | |
| 1 | 0260151-1 | 4 | TIRE AND WHEEL, BAR LUG FOAM FILLED ASSEMBLY |
| | 0073298 | 2 | DECAL, DANGER FOAM FILLED TIRES – NOT SHOWN |
| 2 | 116317-000-1 | 2 | TIRE AND WHEEL ASSEMBLY, BAR LUG FOAM FILLED LEFT SIDE |
| 3 | 0260177-1 | 1 | WHEEL, LEFT SIDE |
| 4 | 0260179 | 1 | TIRE, BAR LUG 14 PLY |
| | 7280054 | 1 | RIM VALVE – NOT SHOWN |
| 5 | 116317-001-1 | 2 | TIRE AND WHEEL ASSEMBLY, BAR LUG FOAM FILLED RIGHT SIDE |
| 6 | 0260178-1 | 1 | WHEEL, RIGHT SIDE |
| 4 | 0260179 | 1 | TIRE, BAR LUG 14 PLY |
| | 7280054 | 1 | RIM VALVE – NOT SHOWN |
| OPTION – NONMARKING FOAM FILLED TIRES | | | |
| 7 | 0260283-1 | 4 | TIRE AND WHEEL, NONMARKING FOAM FILLED ASSEMBLY |
| | 0073298 | 2 | DECAL, DANGER FOAM FILLED TIRES – NOT SHOWN |
| 8 | 0260284-1 | 2 | TIRE AND WHEEL, NONMARKING FOAM FILLED LEFT SIDE ASSEMBLY |
| 3 | 0260177-1 | 1 | WHEEL, LEFT SIDE |
| 9 | 0260286 | 1 | TIRE, NONMARKING |
| | 7280054 | 1 | RIM VALVE – NOT SHOWN |
| 10 | 0260285-1 | 2 | TIRE AND WHEEL, NONMARKING FOAM FILLED RIGHT SIDE ASSEMBLY |
| 6 | 0260178-1 | 1 | WHEEL, RIGHT SIDE |
| 9 | 0260286 | 1 | TIRE, NONMARKING |
| | 7280054 | 1 | RIM VALVE – NOT SHOWN |



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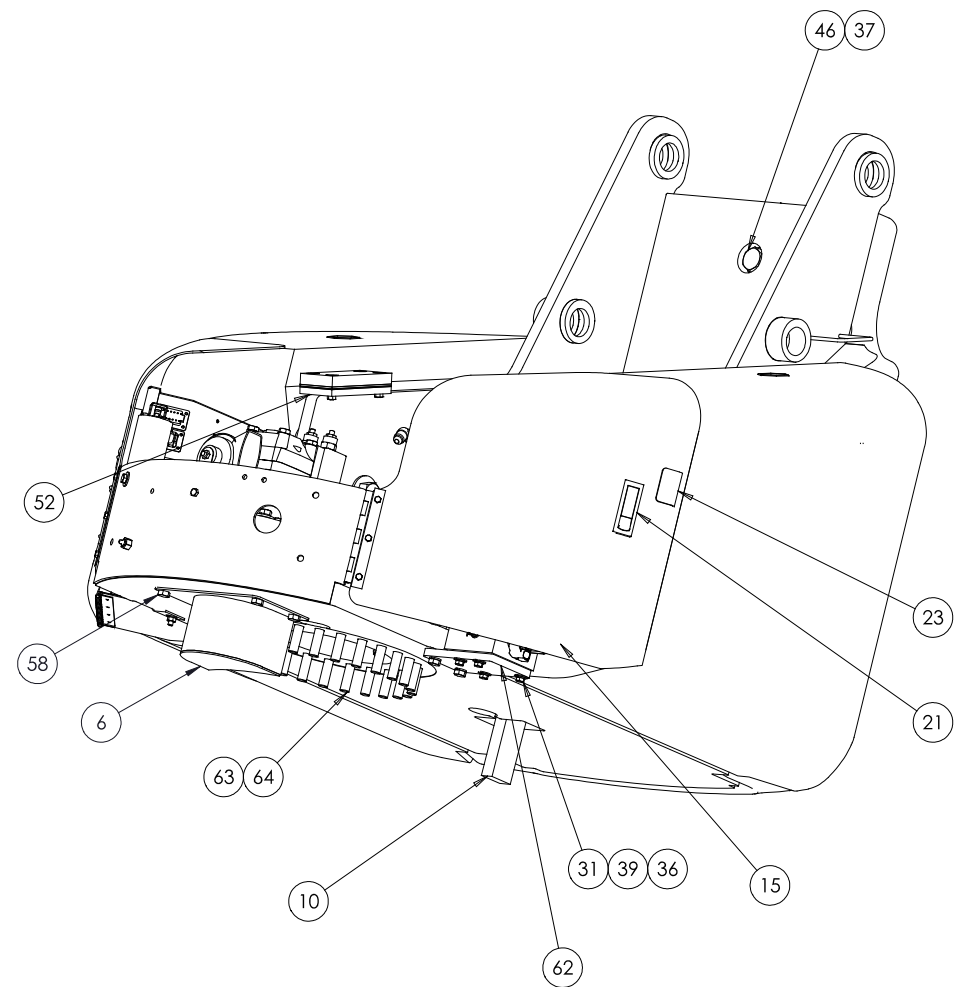
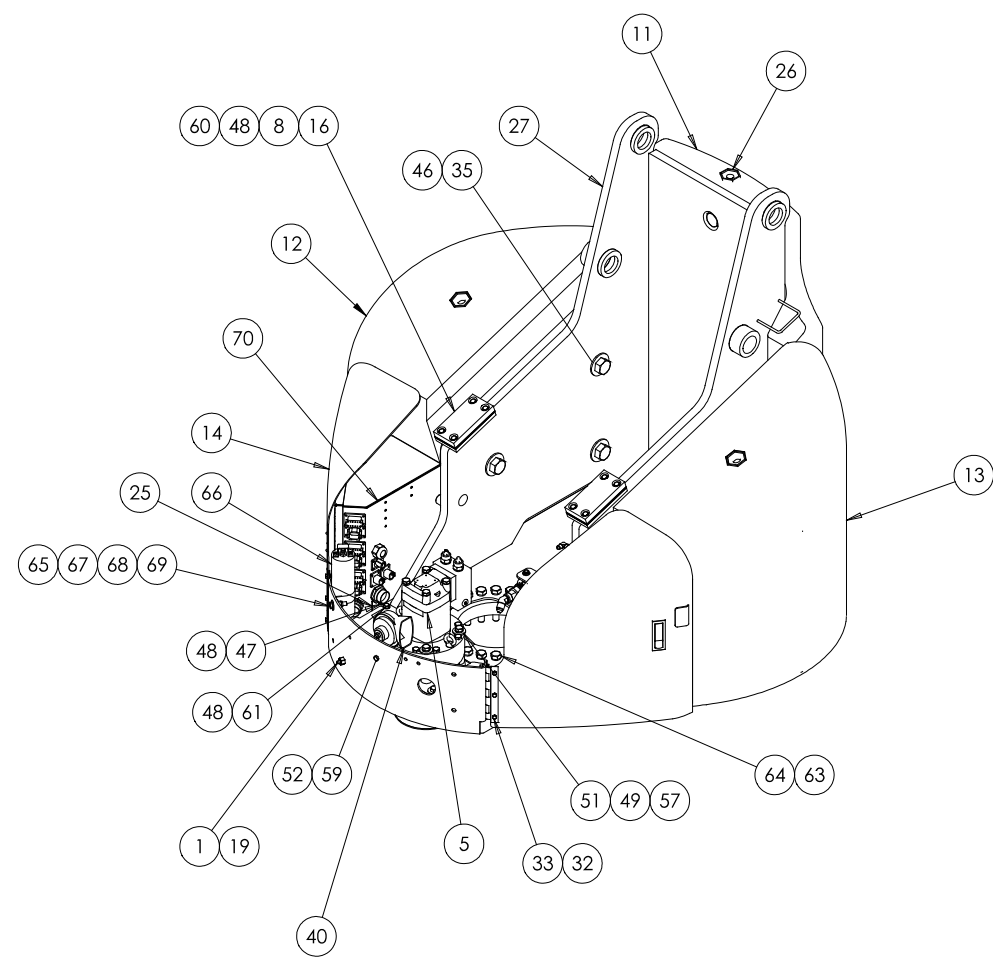
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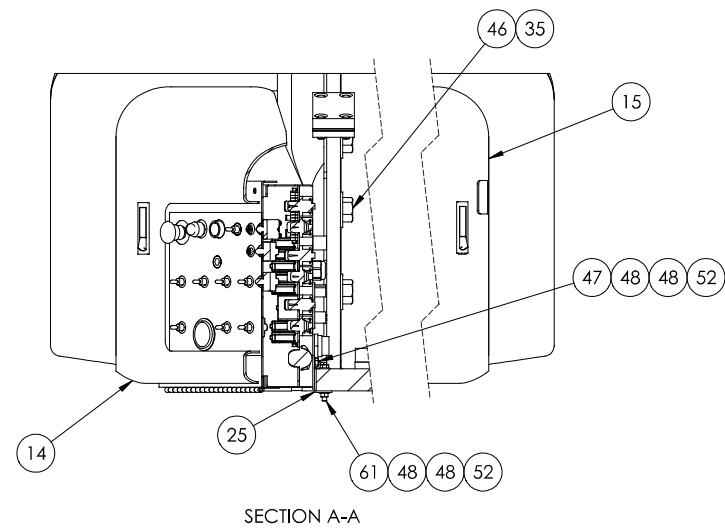
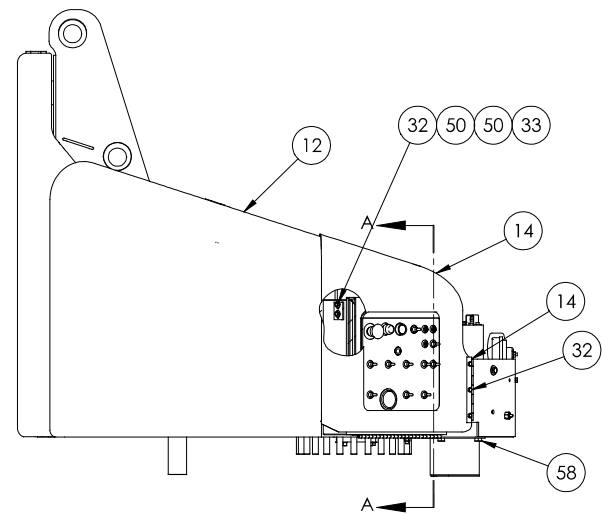
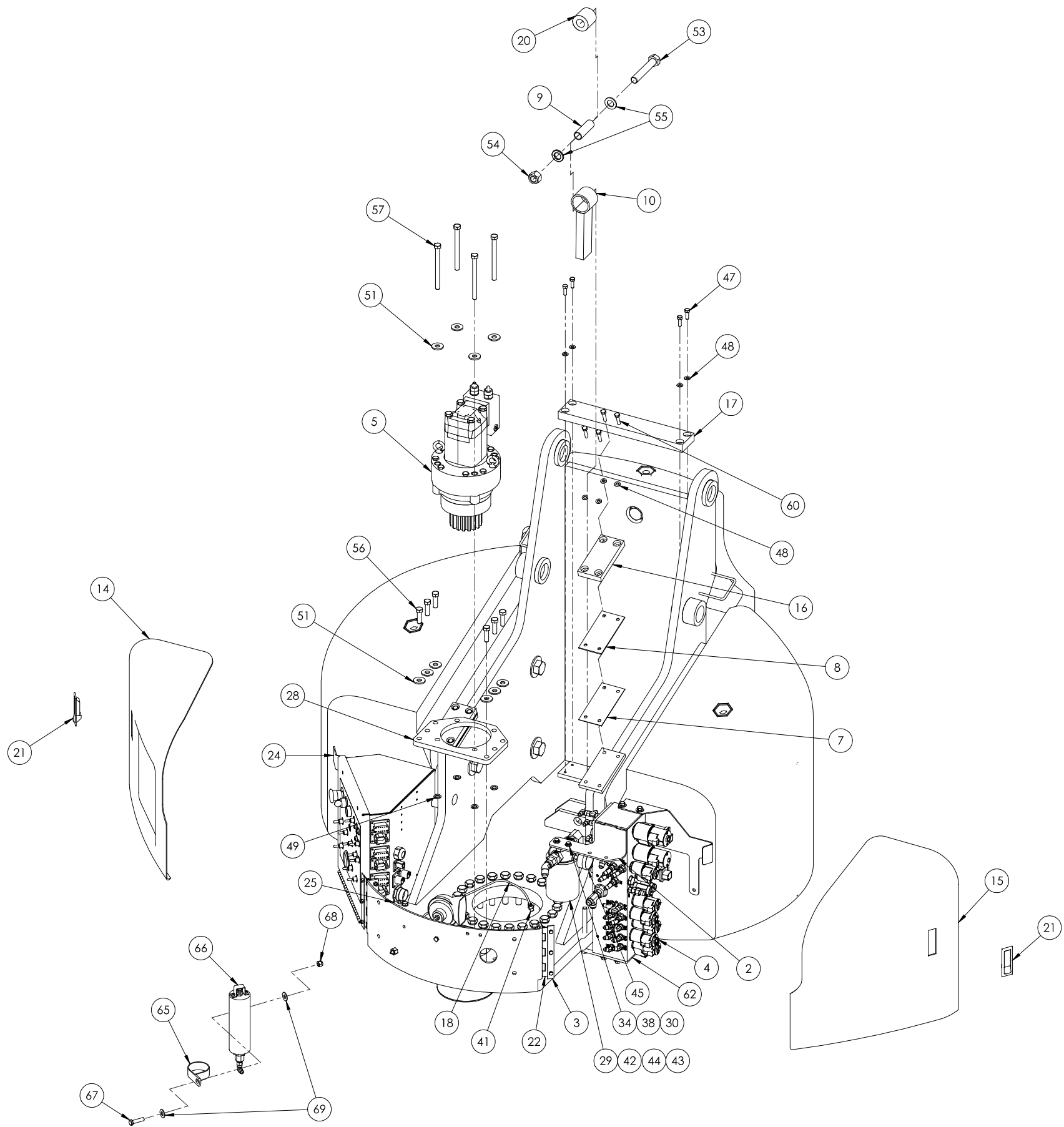
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Turntable Assembly

| Item | Part No. | Qty. | Description |
|------|--------------|------|-----------------------------------------------------------------|
| 1 | 013336-001 | 1 | GREASE FITTING |
| 2 | 0260103-3 | 1 | BRACKET, HYDRAULIC FILTER WELDMENT |
| 3 | 0260166-2 | 2 | TURNTABLE COVER HINGE BAR |
| 4 | 0260219 | 1 | BOOM FUNCTION CONTROL VALVE ASSEMBLY (REFER TO HYDRAULICS – 17) |
| 5 | 0260335-3 | 1 | SWING DRIVE |
| 6 | 0260390-3 | 1 | GUARD WELDMENT, PINION GEAR |
| 7 | 068319-000-3 | 2 | SHIM, REST PAD 1.5 MM |
| 8 | 068319-001-3 | 2 | SHIM, REST PAD 3 MM |
| 9 | 068478-000-3 | 1 | SPACER TUBE |
| 10 | 068485-000-3 | 1 | STOP WELDMENT |
| 11 | 068652-000-2 | 1 | COUNTERWEIGHT, REAR |
| 12 | 068653-000-2 | 1 | COUNTERWEIGHT, LEFT SIDE |
| 13 | 068654-000-2 | 1 | COUNTERWEIGHT, RIGHT SIDE |
| 14 | 068656-000-2 | 1 | TURNTABLE COVER, LEFT |
| 15 | 068657-000-2 | 1 | TURNTABLE COVER, RIGHT |
| 16 | 068660-000 | 2 | REST PAD |
| 17 | 068660-001 | 1 | REST PAD, LONG |
| 18 | 068678-099 | 1 | TUBING, NYLON |
| 19 | 068679-003 | 1 | FITTING BULKHEAD |
| 20 | 068720-002 | 1 | SPRING CYLINDER, POLY |
| 21 | 068757-002 | 2 | LATCH |
| 22 | 068759-000-2 | 2 | HINGE, TURNTABLE COVER |
| 23 | 068791-000-3 | 1 | BRACKET |
| 24 | 068792-000-3 | 1 | BRACKET |
| 25 | 068793-000-3 | 1 | BRACKET |
| 26 | 109104-000 | 3 | CAP PLUG WW8 |
| 27 | 116312-000-2 | 1 | TURNTABLE POST WELDMENT |
| 28 | 116323-000 | 1 | MOUNTING PLATE |
| 29 | 301440 | 1 | HYDRAULIC OIL RETURN FILTER ASSEMBLY (REFER TO HYDRAULICS – 9) |
| 30 | 970019 | 2 | BOLT, HEXHD .250-20 X .625 GR5 |
| 31 | 970259 | 6 | BOLT, HEXHD .313-18 X 1.00 GR5 PLATED |
| 32 | 975209 | 14 | BOLT, HEXHD M6-1.00 X 18 MM |
| 33 | 984169 | 14 | NUT, HEX M6-1.00 |
| 34 | 986019 | 2 | WASHER, FLAT .250 |
| 35 | 986119 | 6 | WASHER, FLAT 1.00 |
| 36 | 986269 | 6 | WASHER, FLAT .313 |
| 37 | 986459 | 2 | WASHER, FLAT .75 |
| 38 | 987099 | 2 | WASHER, LOCK .250 |
| 39 | 987109 | 6 | WASHER, LOCK .313 |
| 40 | 3040127 | 1 | HORN 12 VDC |
| 41 | 5028006 | 1 | ADAPTER, MALE PIPE |
| 42 | 5035333 | 1 | FITTING ELBOW 90 STRTHD -12B -8S STL |
| 43 | 5036906 | 1 | FITTING ELBOW 45 SWVL -8S -8S STL |
| 44 | 5065711 | 1 | FITTING ADAPTOR STRTHD -12B-8S STL |
| 45 | 5080011 | 1 | FILTER CONDITION GAUGE |
| 46 | 5560327 | 8 | BOLT, HEXHD 1.00-8 X 2.50 GR5 |
| 47 | 5560357 | 5 | BOLT, HEXHD M8-1.25 X 25 MM |
| 48 | 5560613 | 18 | WASHER, FLAT M8 |
| 49 | 5560614 | 6 | WASHER, LOCK M12 |
| 50 | 5560629 | 4 | WASHER, FLAT M6 |
| 51 | 5560699 | 10 | WASHER, FLAT 12 MM |
| 52 | 5560727 | 11 | NUT, HEX LKG M8-1.25 |
| 53 | 5563075 | 1 | BOLT, HEXHD M20-2.5 X 120 MM |
| 54 | 5563076 | 1 | NUT, HEX LKG M20-2.5 |
| 55 | 5563077 | 2 | WASHER, FLAT M20 |
| 56 | 5563079 | 6 | BOLT, HEXHD M12-1.75 X 140 MM |
| 57 | 5563089 | 6 | BOLT, HEXHD M12-1.75 X 12 MM |

Continued on next page...

0260414-2

Turntable Assembly

Turntable Assembly

| Item | Part No. | Qty. | Description |
|------|-----------|------|-------------------------------------------------|
| 58 | 5563113 | 4 | BOLT, HEXHD M12-1.75 X 12 MM LG |
| 59 | 972029 | 3 | BOLT, HEXHD M8-1.25 X 20 MM |
| 60 | 5560632 | 8 | BOLT, HEXHD M8-1.25 X 35 MM |
| 61 | 972069 | 1 | BOLT, HEXHD M8-1.25 X 60 MM |
| 62 | 0260207-3 | 1 | MOUNTING PLATE VALVE BLOCK |
| 63 | 5563058 | 24 | WASHER, FLAT HARD .653 SP |
| 64 | 5563059 | 24 | BOLT, FLGD M16-2.0 90 MM HEX SP |
| 65 | 5093014 | 1 | CLIP, CUSHION 2.25 VINYL COATED |
| 66 | 0260475 | 1 | ACCUMULATOR ASSEMBLY (REFER TO HYDRAULICS – 21) |
| 67 | 970489 | 1 | HEXHD CAPSCREW .375-16 UNC STL GR5 1.50 LG |
| 68 | 5560033 | 1 | NUT, HEX LKG .375-16 UNC |
| 69 | 986299 | 2 | WASHER, FLAT .375 STANDARD PLATED |
| 70 | 0260080 | 1 | LOWER CONTROL PANEL (REFER TO ELECTRICAL – 13) |

0260414-2

Turntable Assembly

F

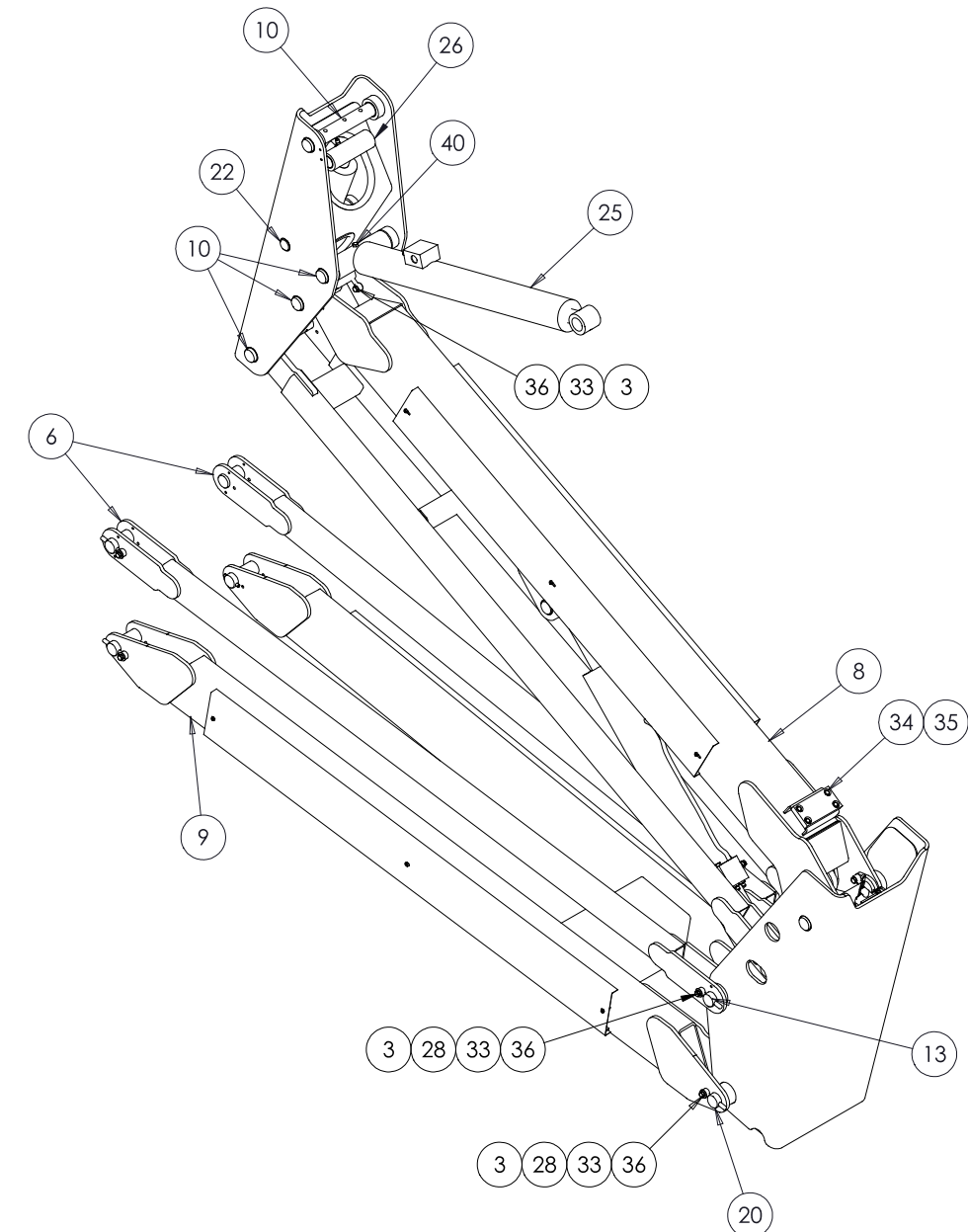
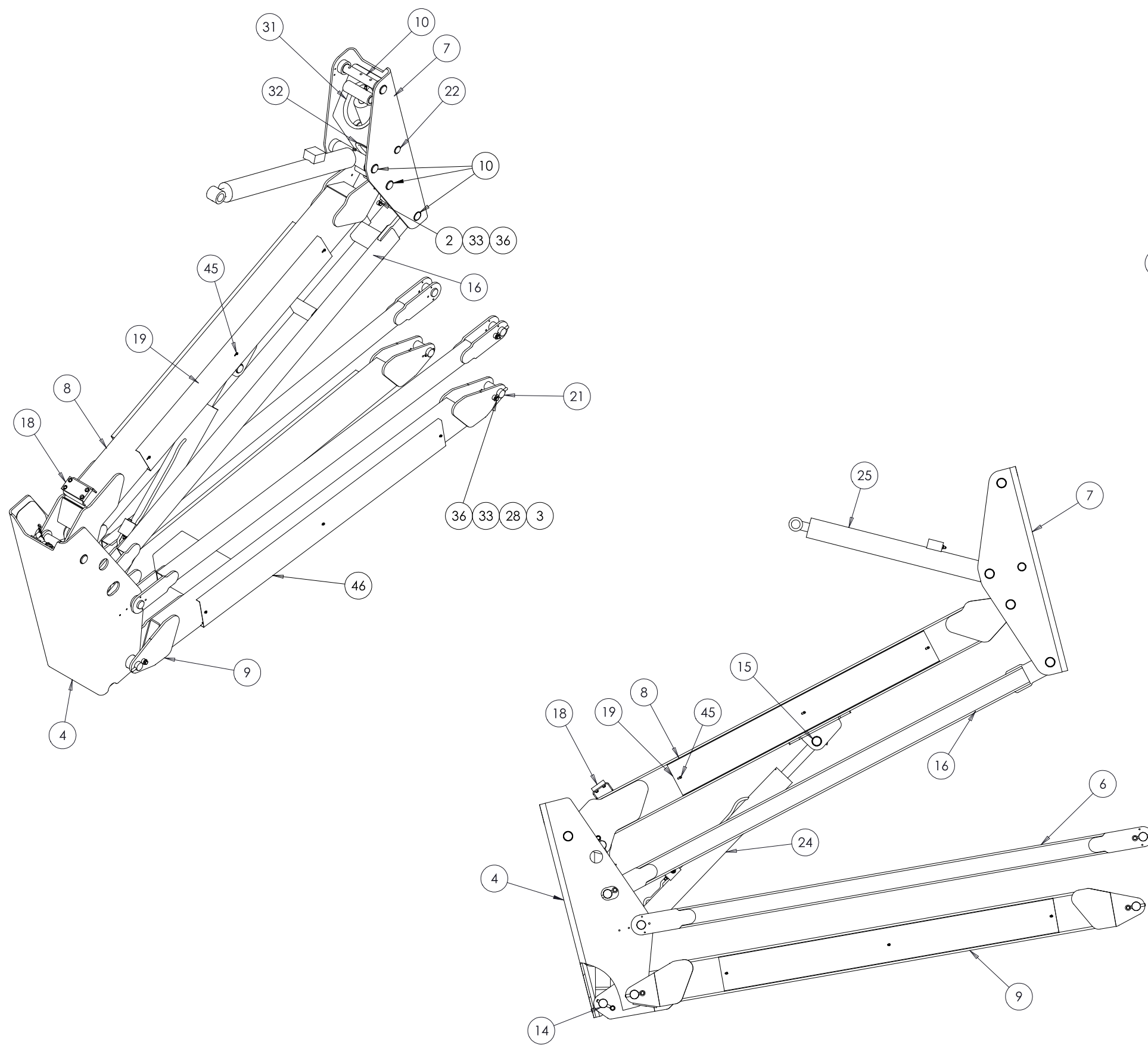
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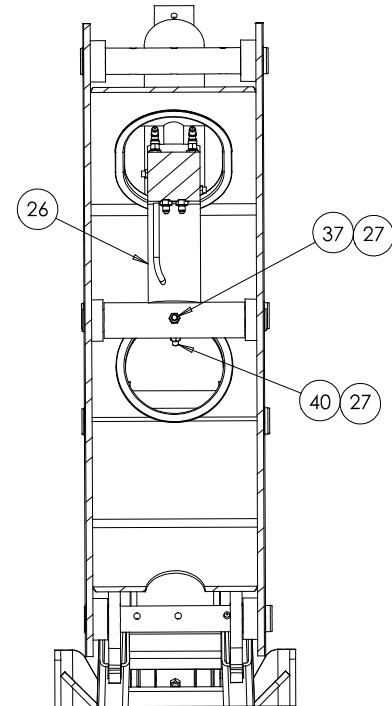
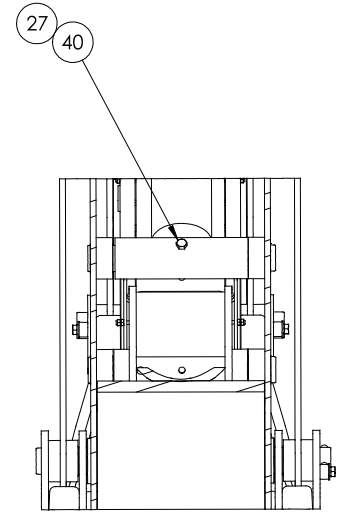
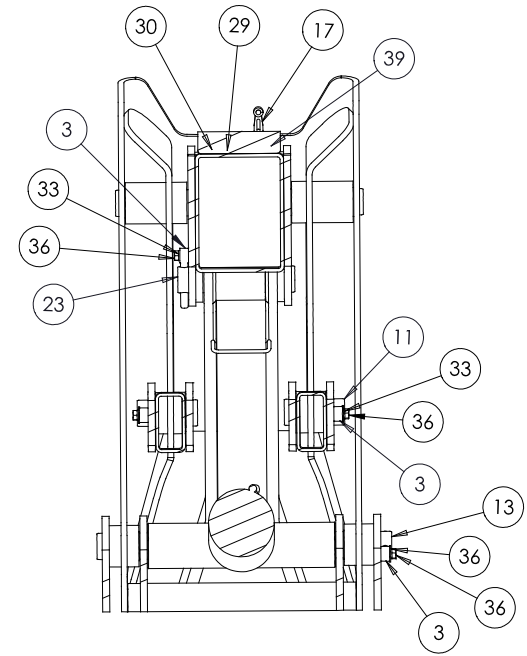
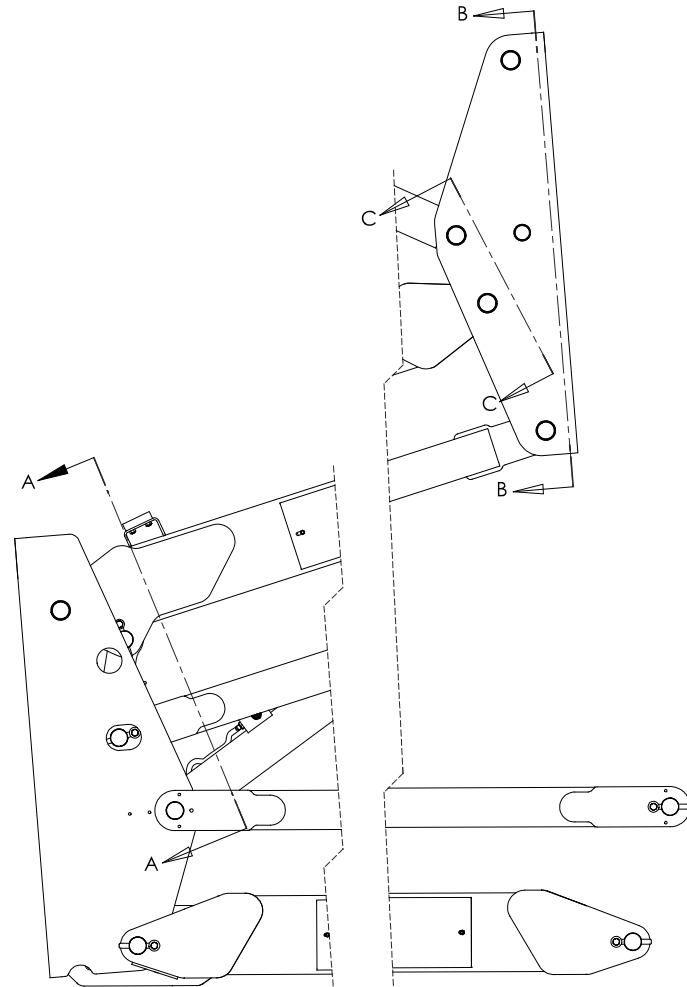
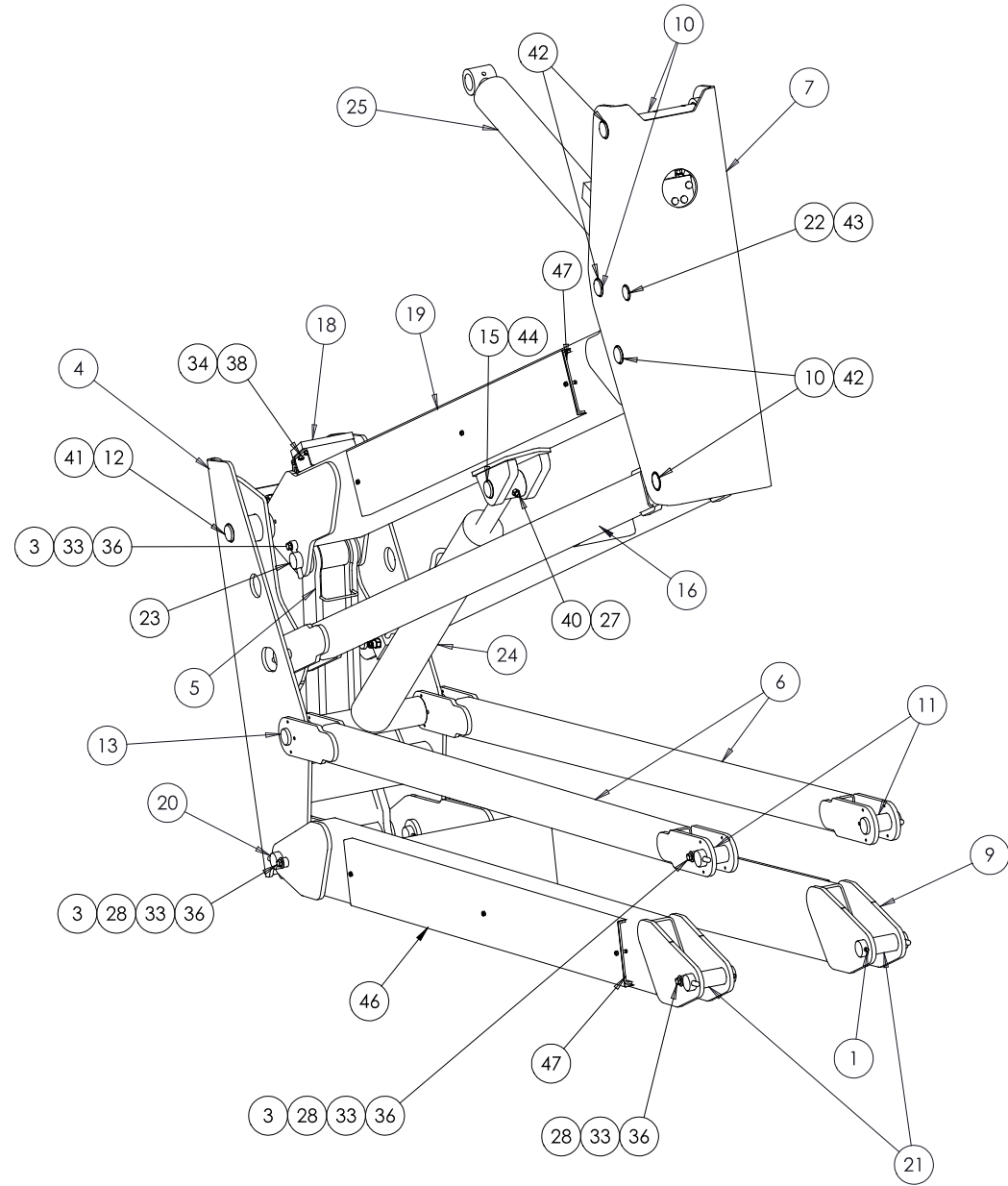
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Riser Boom Assembly

| Item | Part No. | Qty. | Description |
|------|--------------|---------|----------------------------------------------------------------------------------|
| 1 | 011739-020 | 4 | PIN ROLL .375 DIA 2.50 |
| 2 | 065214-000 | 1 | ROD END 3/8 X 3 |
| 3 | 065214-001 | 14 | ROD END 1/2 X 3 1/2 |
| 4 | 068397-000 | 1 | RISER POST WELDMENT |
| 5 | 068399-000 | 1 | TENSION LINK WELDMENT |
| 6 | 068400-000 | 2 | 1ST TENSION RAIL |
| 7 | 068412-000 | 1 | FRONT RISER WELDMENT |
| 8 | 068415-000 | 1 | 2ND RISER BOOM WELDMENT |
| 9 | 068417-000 | 1 | 1ST RISER BOOM WELDMENT |
| 10 | 068475-000 | 2 | PIN 1.75 DIA |
| 11 | 068477-001 | 6 | PIN 1.75 DIA |
| 12 | 068477-002 | 1 | PIN 1.75 DIA |
| 13 | 068477-003 | 1 | PIN 1.75 DIA |
| 14 | 068477-005 | 1 | PIN 1.75 DIA |
| 15 | 068477-007 | 1 | PIN 1.75 DIA |
| 16 | 068543-000 | 1 | 2ND TENSION RAIL WELDMENT |
| 17 | 068556-002 | 1 | LEVER SWITCH |
| 18 | 068660-000 | 1 | REST PAD |
| 19 | 068704-000 | 2 | HOSE GUARD |
| 20 | 068794-000 | 2 | PIN 1.75 DIA |
| 21 | 068794-001 | 2 | PIN 1.75 DIA |
| 22 | 068796-001 | 1 | PIN 1.75 DIA 38 MM |
| 23 | 116363-000 | 1 | PIN 1.75 DIA |
| 24 | 116370-000-3 | 1 | CYLINDER, RISER BOOM (REFER TO HYDRAULICS – 29) |
| 25 | 116371-000-3 | 1 | CYLINDER, MAIN BOOM LIFT (REFER TO HYDRAULICS – 31) |
| 26 | 116374-000-3 | 1 | CYLINDER, MASTER LEVEL (REFER TO HYDRAULICS – 37) |
| 27 | 984909 | 3 | NUT, HEX LKG M10 |
| 28 | 986009 | 9 | WASHER, FLAT M8 |
| 29 | 3040070 | 1 | NUT LKG .500 HUB |
| 30 | 3040115 | 1 | ELECTRICAL STRAIN RELIEF |
| 31 | 5560277 | 2.08 FT | GROMMET EDGE COVER (SOLD BY THE FOOT) |
| 32 | 5560277 | 1.75 FT | GROMMET EDGE COVER (SOLD BY THE FOOT) |
| 33 | 5560356 | 15 | WASHER, LOCK M10 |
| 34 | 5560357 | 4 | BOLT, HEXHD M8-1.25 X 25 MM |
| 35 | 5560613 | 4 | WASHER, FLAT M8 |
| 36 | 5560626 | 15 | BOLT, HEXHD M10-1.50 X 30 MM |
| 37 | 5560653 | 1 | BOLT, HEXHD M10 85 MM |
| 38 | 5560727 | 4 | NUT, HEX LKG M8-1.25 |
| 39 | 5563073 | 2 | SCREW, RD HD M5 X 30 MM |
| 40 | 5569917 | 2 | BOLT, HEXHD M10-1.50 90 MM |
| 41 | 062642-034 | 12 | BEARING SLEEVE |
| 42 | 062642-031 | 4 | BEARING SLEEVE |
| 43 | 062642-036 | 2 | BEARING SLEEVE |
| 44 | 062642-028 | 2 | BEARING SLEEVE |
| 45 | 984169 | 24 | NUT, HEX M6-1.0 |
| 46 | 068705-000 | 2 | HOSE GUARD |
| 47 | 068706-000 | 12 | CLAMP, HOSE RETAINER |
| | 0262231 | 1 | ASSEMBLY, BOOM LIFT LIMIT SWITCH, CE ONLY – NOT SHOWN (REFER TO ELECTRICAL – 26) |

0260396-2

Riser Boom Assembly

F

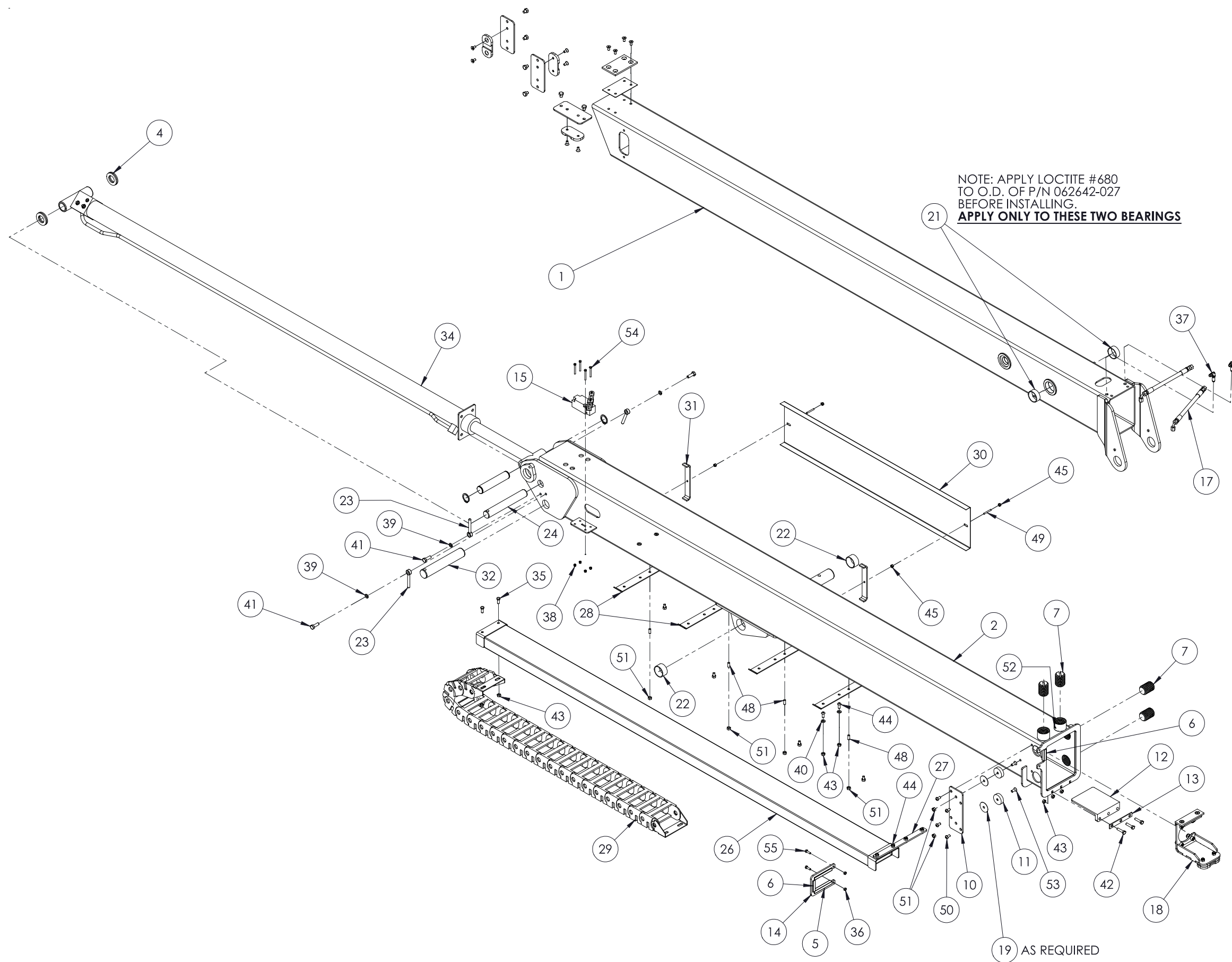
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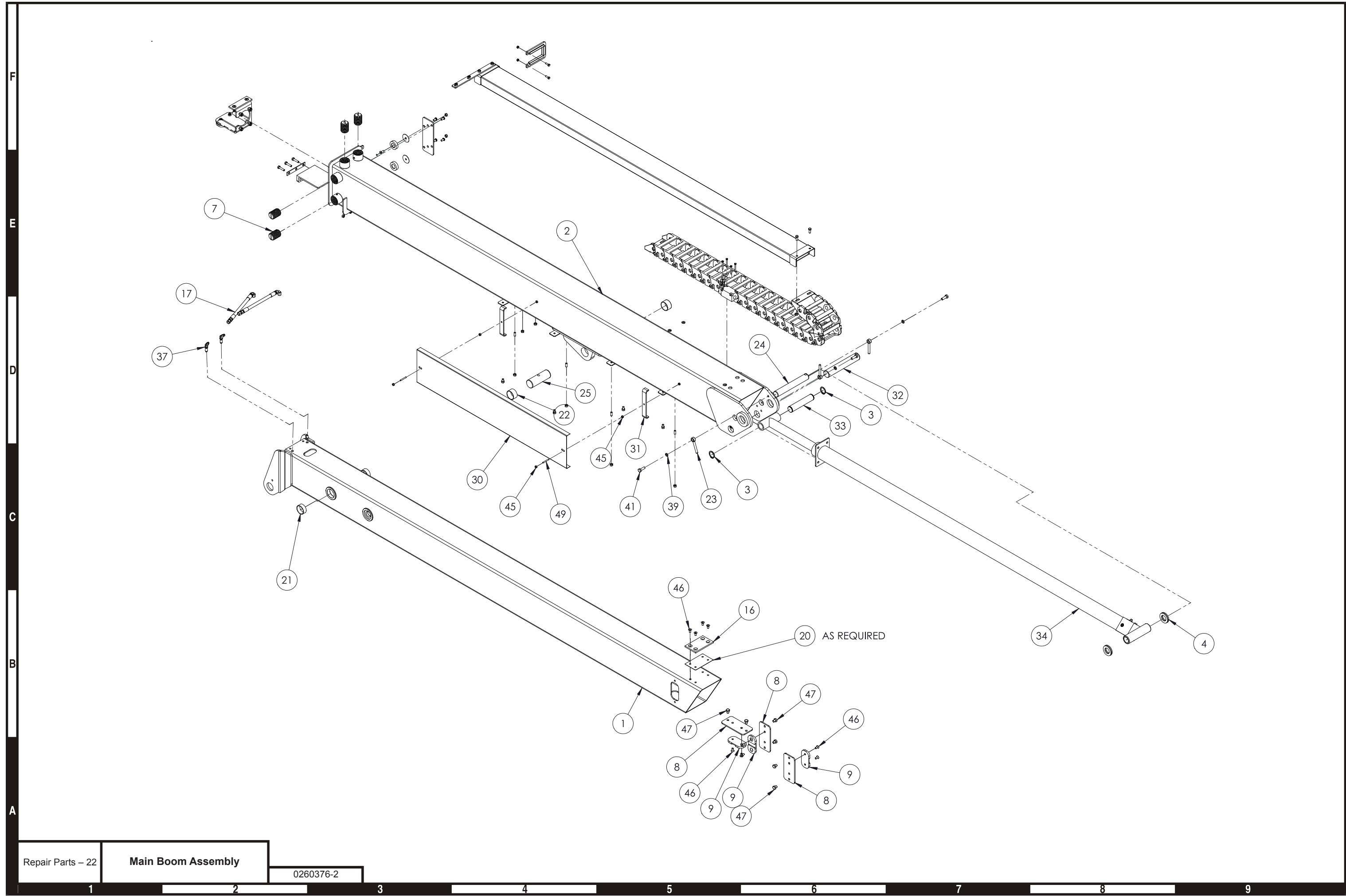
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Main Boom Assembly

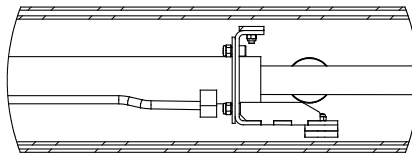
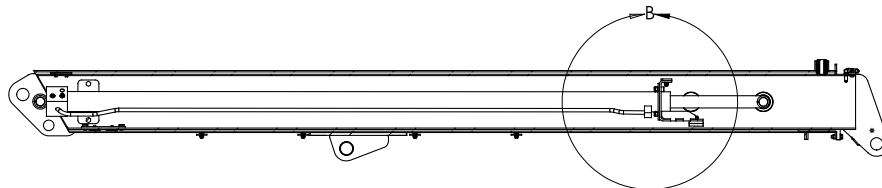
| Item | Part No. | Qty. | Description |
|------|---------------|------|-------------------------------------------------------|
| 1 | 068496-025-2 | 1 | TIP BOOM WELDMENT |
| 2 | 068497-025-2 | 1 | MAIN BOOM WELDMENT |
| 3 | 011764-020 | 2 | SNAP RING, EXTERNAL |
| 4 | 0260128 | 4 | SHIM |
| 5 | 0260136 | 2 | WEAR STRIP, POLYETHYLENE |
| 6 | 0260137 | 2 | WEAR STRIP, POLYETHYLENE |
| 7 | 0260297 | 4 | WEAR PAD |
| 8 | 0260315 | 3 | WEAR PAD RETAINER PLATE |
| 9 | 0260316 | 3 | WEAR PAD 2 X 4 X 3/8" |
| 10 | 0260317 | 1 | RETAINER, PUCK WEAR PAD |
| 11 | 0260318 | 2 | WEAR PAD, PUCK |
| 12 | 0260320 | 1 | WEAR PAD, CASSETTE |
| 13 | 0260321-2 | 1 | WEAR PAD, RETAINER BAR |
| 14 | 0260323-2 | 1 | BAR, CAT TRACK RETAINER |
| 15 | 0260347 | 1 | BOOM EXTEND LIMIT SWITCH ASSEMBLY |
| 16 | 0260368 | 1 | WEAR PAD, TOP TIP BOOM |
| 17 | 0260377 | 2 | HOSE -4 -4S90 -4S 11.5 100R17 |
| 18 | 0260452 | 1 | ASSEMBLY, WEAR PAD (REFER TO REPAIR PARTS – 25) |
| 19 | 0260491 | 2 | SHIM, .030 1.75 DIA |
| 20 | 0260492 | 1 | SHIM, .030 5.00 3.00 |
| 21 | 062642-027 | 2 | BEARING SLEEVE |
| 22 | 062642-028 | 2 | BEARING SLEEVE |
| 23 | 065214-000 | 3 | ROD END 3/8 X 3 |
| 24 | 068476-002 | 1 | PIN 1.25 DIA 8.74 |
| 25 | 068477-007 | 1 | PIN 1.75 DIA |
| 26 | 068479-000-2 | 1 | EXTENSION TUBE WELDMENT |
| 27 | 068492-000-2 | 1 | EXTENSION TUBE MOUNTING BAR |
| 28 | 068497-025-10 | 4 | SUPPORT BRACKET |
| 29 | 068691-022 | 1 | CAT TRACK |
| 30 | 068703-000-2 | 1 | HOSE GUARD |
| 31 | 068706-000 | 2 | CLAMP, HOSE RETAINING |
| 32 | 068796-002 | 1 | PIN 1.5 DIA |
| 33 | 116360-000 | 1 | PIN 1.25 DIA |
| 34 | 116372-000-3 | 1 | CYLINDER, MAIN BOOM EXTEND (REFER TO HYDRAULICS – 33) |
| 35 | 972029 | 2 | BOLT, HEXHD M8-1.25 X 20 MM |
| 36 | 984169 | 2 | NUT, HEX M6-1.0 |
| 37 | 5034501 | 2 | FITTING, ELB90 BLHD -4S-4S STL |
| 38 | 5076513 | 4 | NUT, HEX LKG M5-0.8 |
| 39 | 5560356 | 3 | WASHER, LCK M10 |
| 40 | 5560613 | 4 | WASHER, FLAT M8 |
| 41 | 5560626 | 3 | BOLT, HEXHD M10-1.50 X 30 MM |
| 42 | 5560632 | 3 | BOLT, HEXHD M8-1.25 X 35 MM |
| 43 | 5560727 | 11 | NUT, HEX LKG M8-1.25 |
| 44 | 5563068 | 6 | SCREW, BUTTON HEAD M8 X 20 |
| 45 | 5563069 | 4 | BOLT, SKTHD .375-16 1.00 |
| 46 | 5563103 | 10 | SCREW, FLAT HEAD M8-1.25 X16 MM |
| 47 | 5563104 | 6 | BOLT, HEXHD M8-1.25 X 20 MM |
| 48 | 5563106 | 8 | STUD, M8-1.25 X 20 MM |
| 49 | 5563107 | 2 | STUD, M5-0.8 X 40 MM |
| 50 | 5563108 | 4 | SCREW, BUTTON HEAD M8-1.25 X 16 MM |
| 51 | 5560727 | 10 | NUT, HEX LKG M8-1.25 |
| 52 | 5563109 | 4 | SCREW, HEX SKT SET M6-1.0 X 10 MM |
| 53 | 5563137 | 2 | BOLT, FSHCS M8-1.25 20 MM |
| 54 | 5563138 | 4 | BOLT, HEXHD M5-0.8 45 MM |
| 55 | 5569985 | 2 | BOLT, HEXHD M6-1.0 X 20 MM |

0260376-2

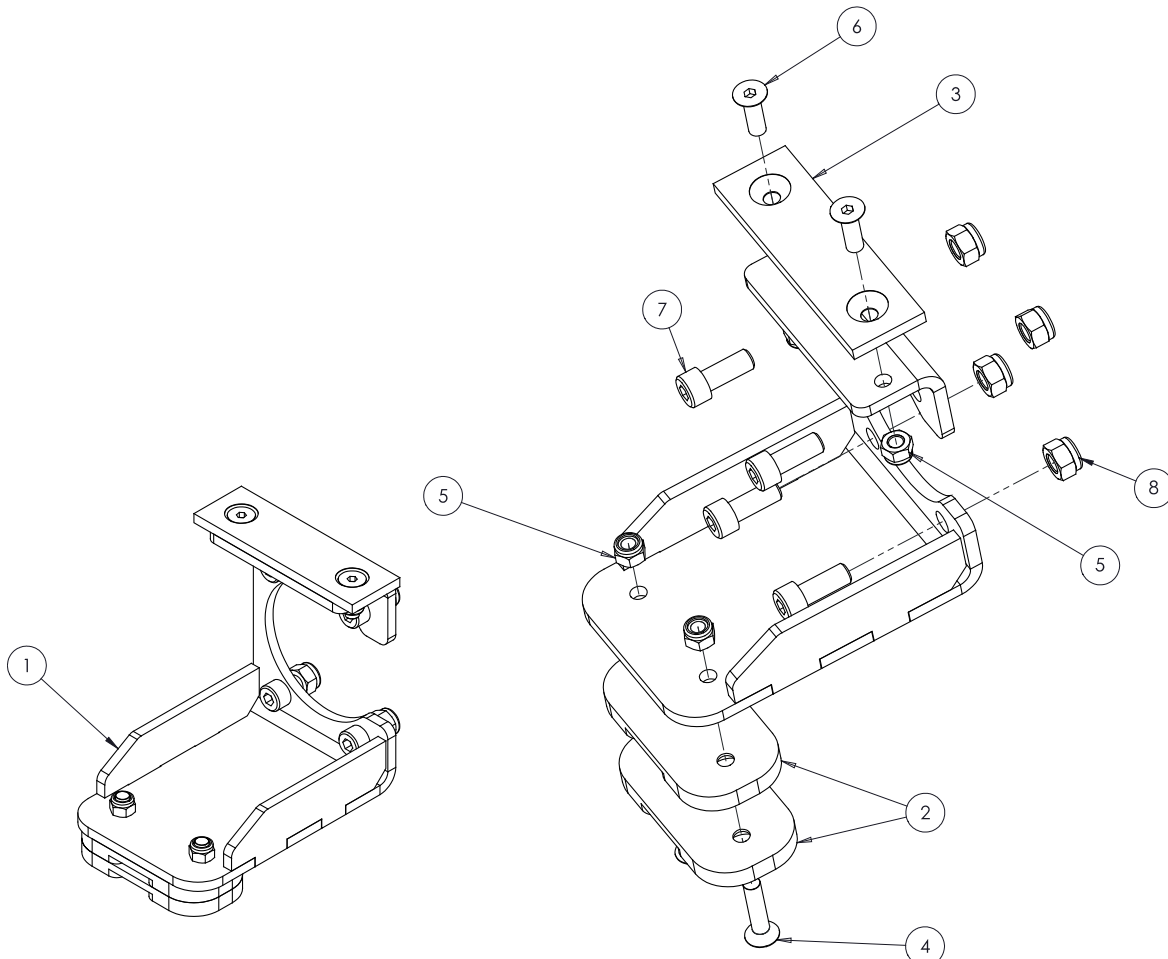
Main Boom Assembly

Wear Pad Assembly

| Item | Part No. | Qty. | Description |
|------|-----------|------|------------------------------|
| 1 | 0260450-3 | 1 | EXTEND CYLINDER PAD WELDMENT |
| 2 | 0260316 | 2 | WEAR PAD 2 X 4 X 3/8 |
| 3 | 0260451 | 1 | UPPER WEAR PAD |
| 4 | 5563129 | 2 | BOLT, FLSKTHD M8-1.25 35 |
| 5 | 5560727 | 4 | NUT, HEX LKG M8-1.25 |
| 6 | 5563128 | 2 | BOLT, FLSKTHD M8-1.25 25 |
| 7 | 5563127 | 4 | BOLT, SKTHD M10-1.50 25 |
| 8 | 5560719 | 4 | NUT, HEX LKG M10-1.50 |



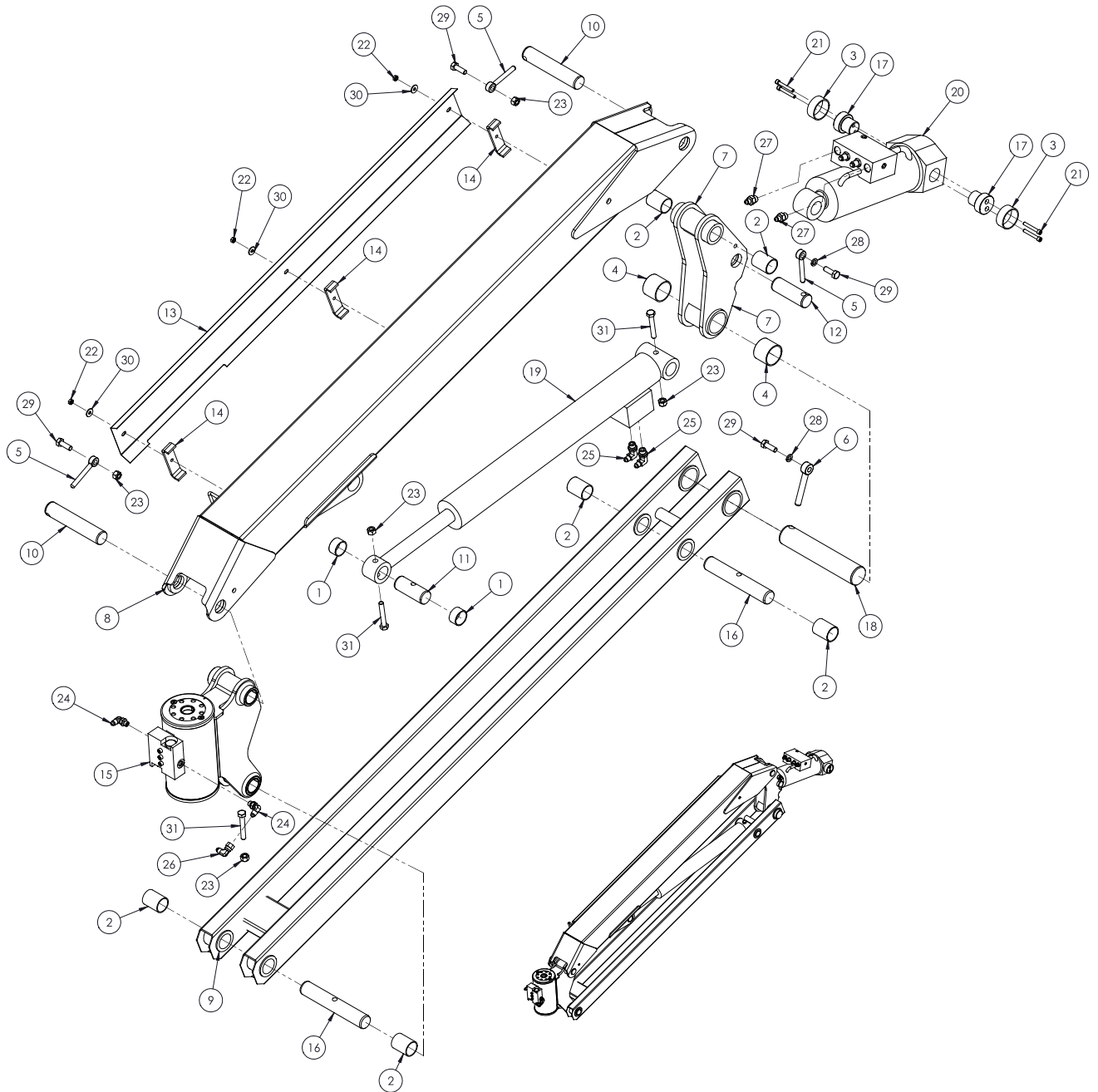
DETAIL B



0260452

Wear Pad Assembly

Jib Boom Assembly



116311-000-2

Jib Boom Assembly

Jib Boom Assembly

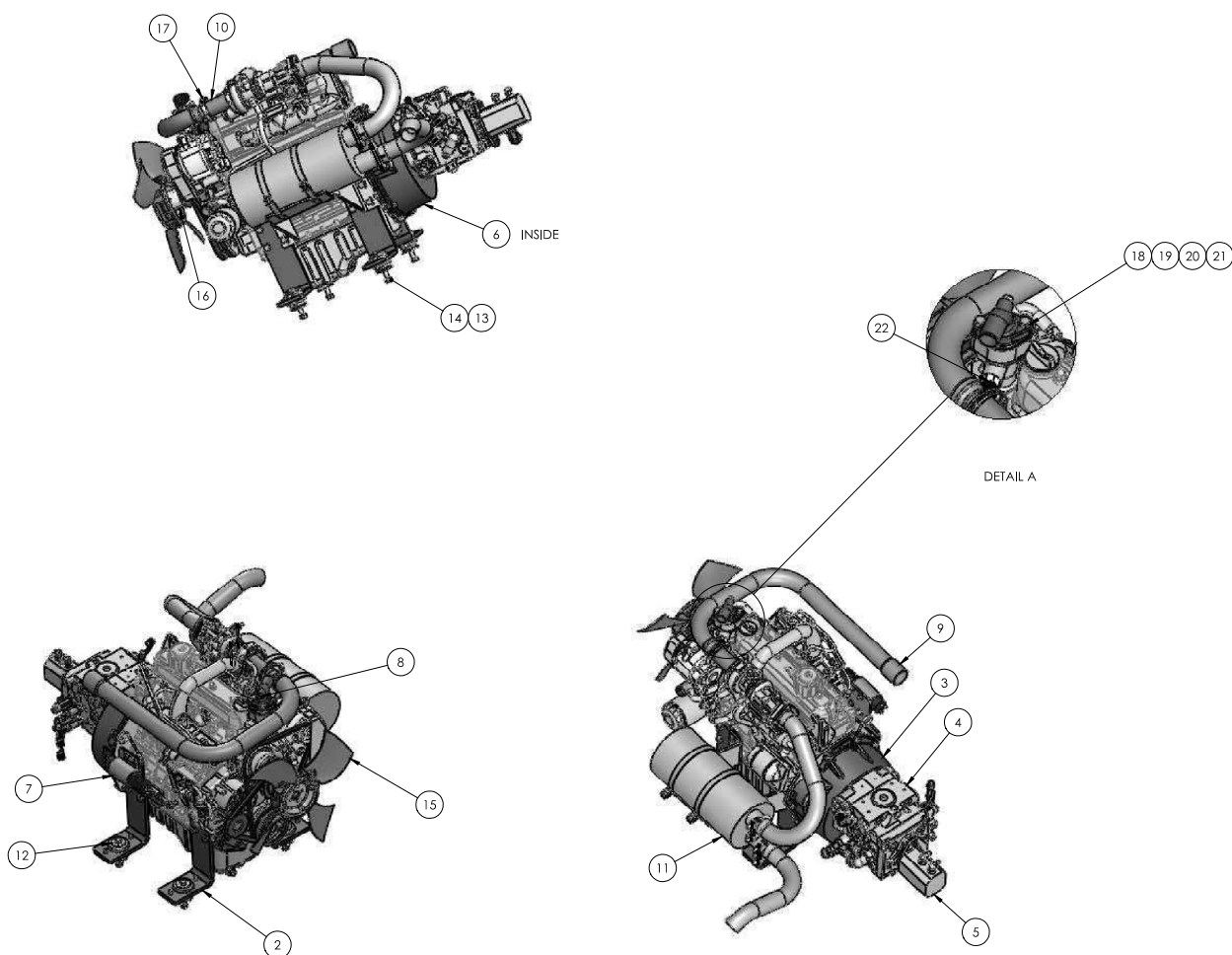
| Item | Part No. | Qty. | Description |
|------|--------------|------|------------------------------------------------------|
| 1 | 062642-024 | 2 | BEARING SLEEVE |
| 2 | 062642-025 | 6 | BEARING SLEEVE |
| 3 | 062642-027 | 2 | BEARING SLEEVE |
| 4 | 062642-031 | 2 | BEARING SLEEVE |
| 5 | 065214-000 | 3 | ROD END 3/8 X 3 |
| 6 | 065214-001 | 1 | ROD END 1/2 X 3 1/2 |
| 7 | 068438-000-2 | 1 | SWINGING FRAME WELDMENT |
| 8 | 068439-000-2 | 1 | JIB BOOM WELDMENT |
| 9 | 068447-025-2 | 1 | LEVELING TUBE WELDMENT |
| 10 | 068476-003 | 2 | PIN 1.25 DIA |
| 11 | 068476-004 | 1 | PIN 1.25 DIA |
| 12 | 068476-005 | 1 | PIN 1.25 DIA |
| 13 | 068731-000-2 | 1 | HOSE GUARD, JIB |
| 14 | 068732-000-3 | 3 | HOSE CLAMP, JIB |
| 15 | 116320-000-2 | 1 | PLATFORM ROTATOR ASSEMBLY (REFER TO HYDRAULICS – 41) |
| 16 | 116326-000 | 2 | PIN, LOWER JIB |
| 17 | 116361-000 | 2 | PIN, STEPPED |
| 18 | 116362-000 | 1 | PIN 1.75 DIA |
| 19 | 116373-000-3 | 1 | JIB CYLINDER (REFER TO HYDRAULICS – 35) |
| 20 | 116375-000-3 | 1 | SLAVE CYLINDER (REFER TO HYDRAULICS – 39) |
| 21 | 978429 | 4 | BOLT, SKTHD 1/4-20 X 1 3/4 |
| 22 | 984169 | 3 | NUT, HEX LKG M6-1.0 |
| 23 | 984909 | 5 | NUT, HEX LKG M10 |
| 24 | 5035303 | 2 | FITTING ELBOW 90 STRTHD -4B -4S STL |
| 25 | 5035318 | 2 | FITTING ELBOW 90 STRTHD -6B -4S STL |
| 26 | 5037003 | 1 | ADAPTER 90 DEG ELBOW SWIVEL -4 JIC |
| 27 | 5065705 | 2 | FITTING ADAPTER STRTHD -6B-4S STL |
| 28 | 5560356 | 2 | WASHER, LOCK M8 |
| 29 | 5560627 | 4 | BOLT, HEXHD M10-1.50 30MM |
| 30 | 5560629 | 3 | WASHER FLAT M6 |
| 31 | 5560672 | 3 | BOLT, HEXHD M10 65MM |

116311-000-2

Jib Boom Assembly

Engine, Top Assembly Kubota

| Item | Part No. | Qty. | Description |
|------|------------|------|-------------------------------------------------------------|
| 1 | 116343-000 | 1 | KUBOTA ENGINE ASSEMBLY |
| 2 | 0260253 | 1 | ENGINE MOUNTING KIT, (REFER TO REPAIR PARTS – 33) |
| 3 | 0260039 | 1 | BELL HOUSING ASSEMBLY, (REFER TO REPAIR PARTS – 35) |
| 4 | 0260420 | 1 | HYDROSTATIC DRIVE PUMP ASSEMBLY, (REFER TO HYDRAULICS – 43) |
| 5 | 0260256 | 1 | BOOM PUMP ASSEMBLY, (REFER TO HYDRAULICS – 45) |
| 6 | 5560632 | 3 | BOLT, HEXHD M8-1.25 X 35MM |
| 7 | 0260257 | 1 | THROTTLE SOLENOID ASSEMBLY, (REFER TO ELECTRICAL – 9) |
| 8 | 0260111 | 1 | PLUG, METRIC HEX |
| 9 | 0260056-3 | 1 | PIPE WELDMENT TURBO TO AIR CLEANER |
| 10 | 0260057 | 1 | SUCTION HOSE |
| 11 | 0260417 | 1 | EXHAUST SYSTEM ASSEMBLY, (REFER TO REPAIR PARTS – 37) |
| 12 | 5563121 | 4 | WASHER, 12MM FENDER |
| 13 | 5560652 | 4 | BOLT, HEXHD M10 X 70MM |
| 14 | 984909 | 4 | NUT, HEX LKG M10 |
| 15 | 0260023 | 1 | MULTI-WING FAN |
| 16 | 0260064 | 1 | SPACER, FAN KUBOTA |
| | 0260254 | 1 | FAN KIT ASSEMBLY NOT SHOWN, (REFER TO REPAIR PARTS – 39) |
| 17 | 020541-018 | 2 | CLAMP, HOSE WORM GEAR |
| 18 | 0260465 | 1 | THERMOSTAT SPACER |
| 19 | 0260466 | 1 | THERMOSTAT HOUSING GASKET |
| 20 | 5560355 | 2 | WASHER, LKG M8 |
| 21 | 972069 | 2 | BOLT, HEXHD M8-1.25 X 60MM |
| 22 | 3028812 | 1 | TEMPERATURE SWITCH |

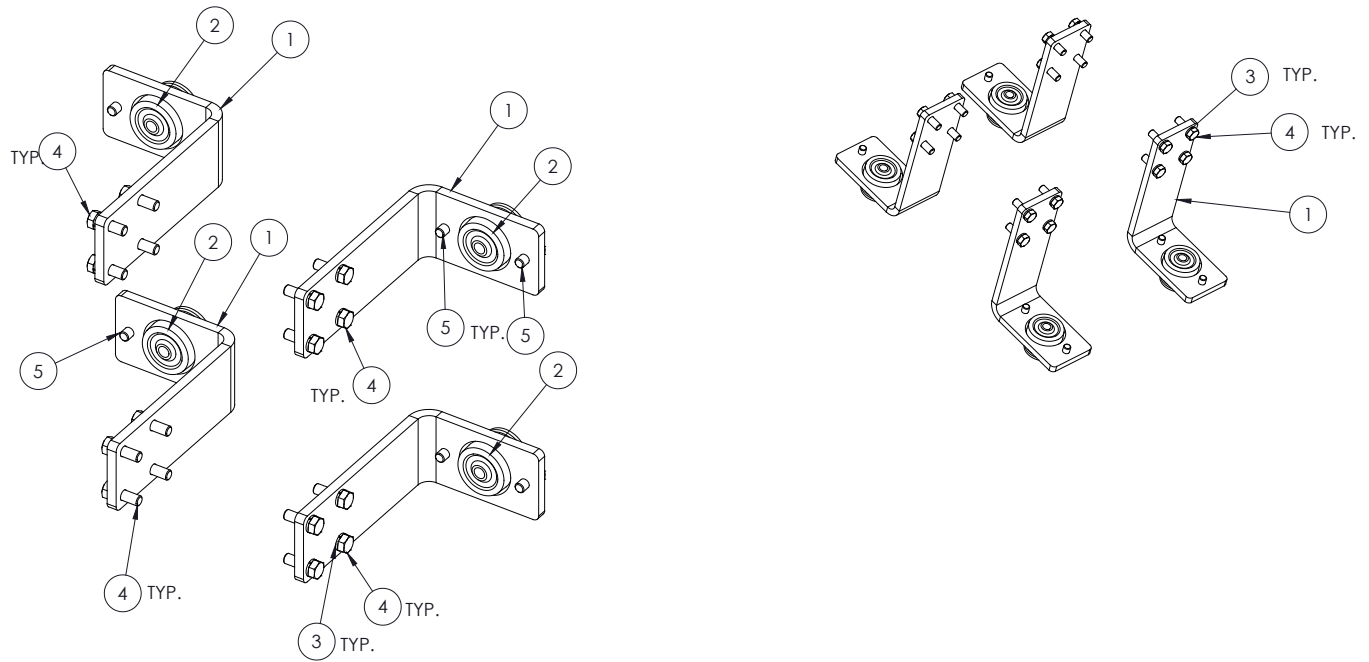


0260291

Engine, Top Assembly Kubota

Engine Mounting Kit

| Item | Part No. | Qty. | Description |
|------|------------|------|---------------------------|
| 1 | 0260063-3 | 4 | BRACKET, ENGINE MOUNTING |
| 2 | 100209-002 | 4 | ENGINE MOUNT |
| 3 | 5560356 | 24 | WASHER, LOCK M10 |
| 4 | 971989 | 16 | BOLT, HEXHD M10-1.25 30MM |
| 5 | 5563026 | 8 | BOLT, HEXHD M10-1.50 25MM |

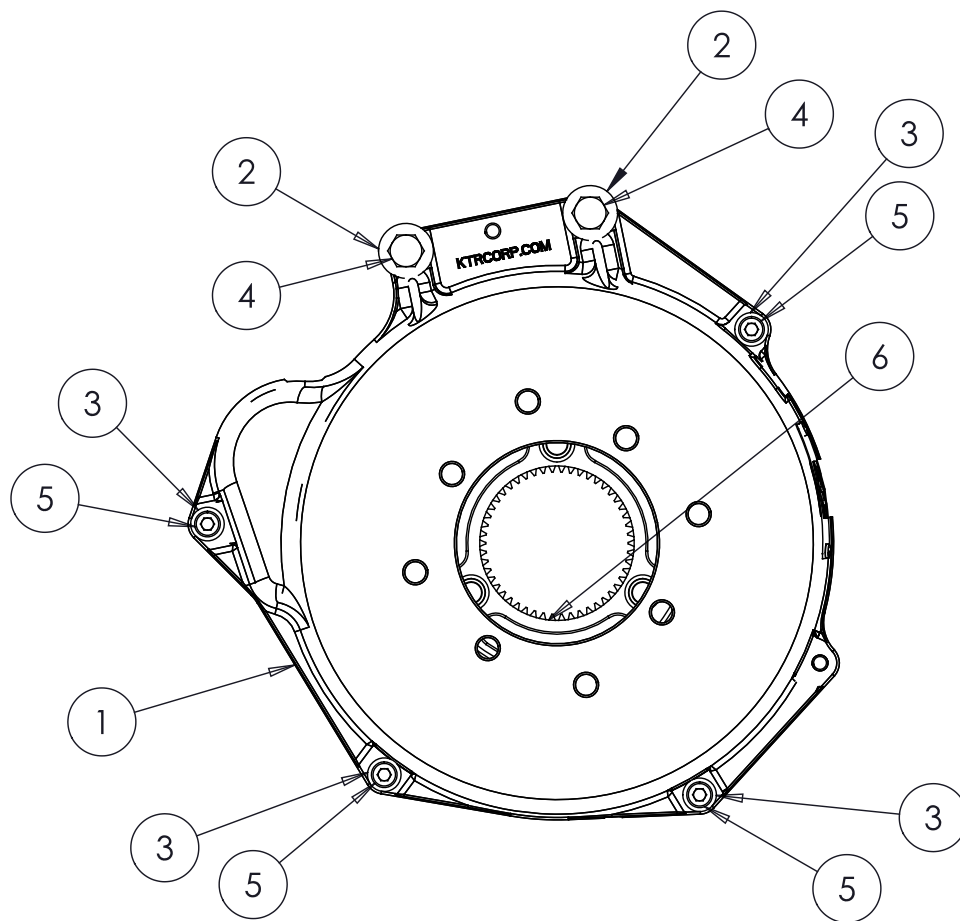


0260253

Engine Mounting Kit

Bell Housing Assembly

| Item | Part No. | Qty. | Description |
|------|----------|------|---------------------------|
| 1 | 0260161 | 1 | BELL HOUSING |
| 2 | 5560364 | 2 | WASHER, FLAT M10 |
| 3 | 5560613 | 4 | WASHER, FLAT M8 |
| 4 | 5560627 | 2 | BOLT, HEXHD M10-1.50 40MM |
| 5 | 5563093 | 4 | BOLT, SKTHD M8 X 30MM |
| 6 | 0260162 | 1 | FLYWHEEL COUPLER |

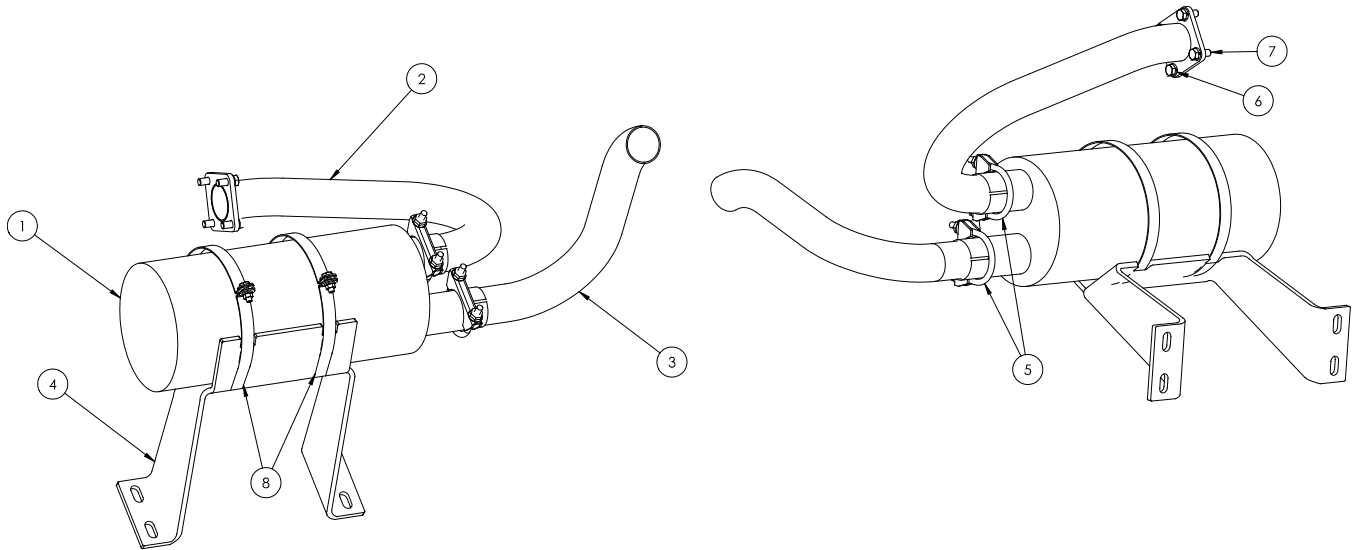


0260039

Bell Housing Assembly

Exhaust System Assembly

| Item | Part No. | Qty. | Description |
|------|-----------|------|----------------------------------------------|
| 1 | 0260042 | 1 | MUFFLER |
| 2 | 0260411 | 1 | WELDMENT EXHAUST PIPE |
| 3 | 0260412 | 1 | PIPE, TAIL EXHAUST |
| 4 | 0260397-3 | 1 | BRACKET, EXHAUST MOUNT |
| 5 | 5550005 | 2 | CLP MUFFLER |
| 6 | 5560355 | 4 | WASHER, LOCK M8 |
| 7 | 972029 | 4 | BOLT, HEXHD M8-1.25 20MM |
| 8 | 0260486 | 2 | MUFFLER CLAMP ASSEMBLY |
| | 0260485 | 1 | MUFFLER CLAMP – NOT SHOWN |
| | 970029 | 1 | BOLT, HEXHD .250-20 .75 GR5-ZP – NOT SHOWN |
| | 984069 | 1 | NUT HEX .250-20 – NOT SHOWN |
| | 986019 | 2 | WASHER, FLAT .25 STANDARD PLATED – NOT SHOWN |
| | 987099 | 1 | WASHER, LOCK .250 SPLIT – NOT SHOWN |

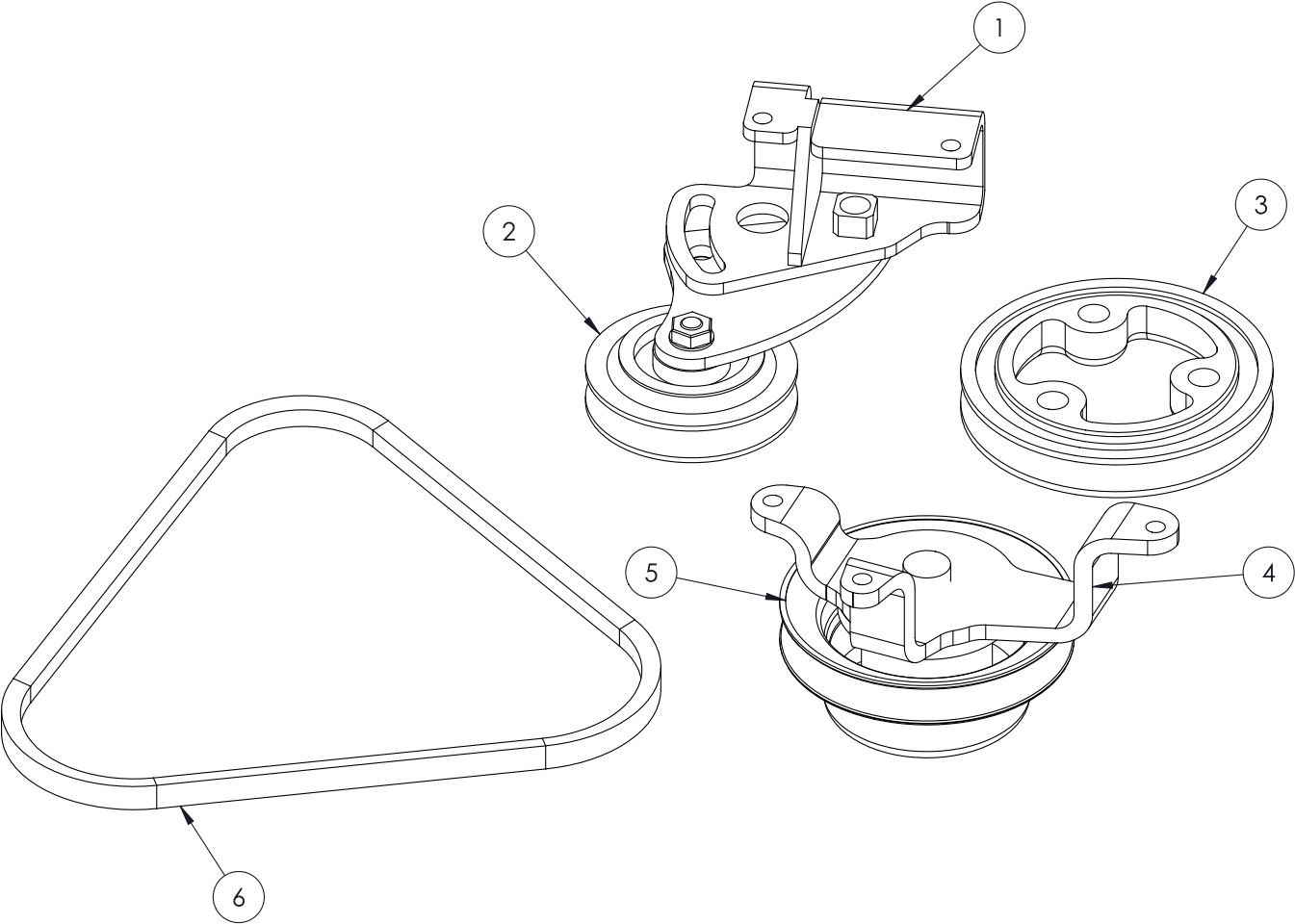


0260417

Exhaust System Assembly

Fan Kit Assembly

| Item | Part No. | Qty. | Description |
|------|-------------|------|------------------|
| 1 | 0260118-015 | 1 | SUPPORT, PULLEY |
| 2 | 0260118-014 | 1 | TENSION PULLEY |
| 3 | 0260118-022 | 1 | DRIVE PULLEY |
| 4 | 0260118-013 | 1 | FAN BRACKET |
| 5 | 0260118-018 | 1 | FAN PULLEY |
| 6 | 0260454 | 1 | V-BELT 9.4 X 715 |

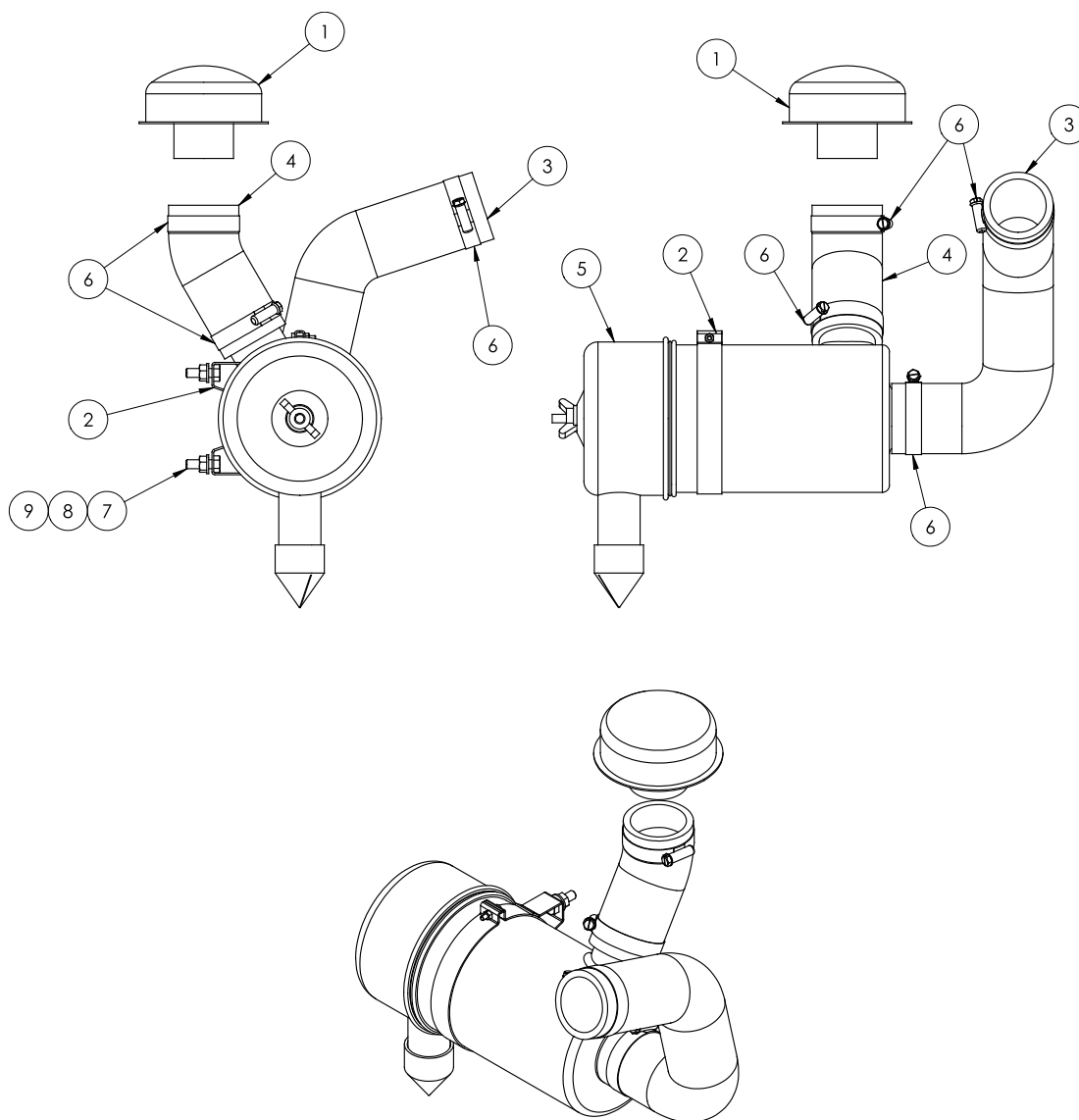


0260254

Fan Kit Assembly

Air Cleaner Assembly

| Item | Part No. | Qty. | Description |
|------|------------|------|-----------------------------------------------|
| 1 | 0260112 | 1 | STACK CAP |
| 2 | 0260113 | 1 | MOUNTING BAND |
| 3 | 0260117 | 1 | HOSE, AIR CLEANER TO TURBO PIPE |
| 4 | 068890-000 | 1 | INLET HOSE, AIR FILTER |
| 5 | 068903-000 | 1 | AIR CLEANER KIT, (REFER TO REPAIR PARTS – 43) |
| 6 | 5550040 | 4 | CLP WORM DRV 2.00-3.00 SAE #40 |
| 7 | 5560357 | 2 | BOLT HEXHD M8-1.25 X 25MM |
| 8 | 5560613 | 2 | WASHER FLAT M8 |
| 9 | 5560727 | 2 | NUT HEX LKG M8-1.25 |

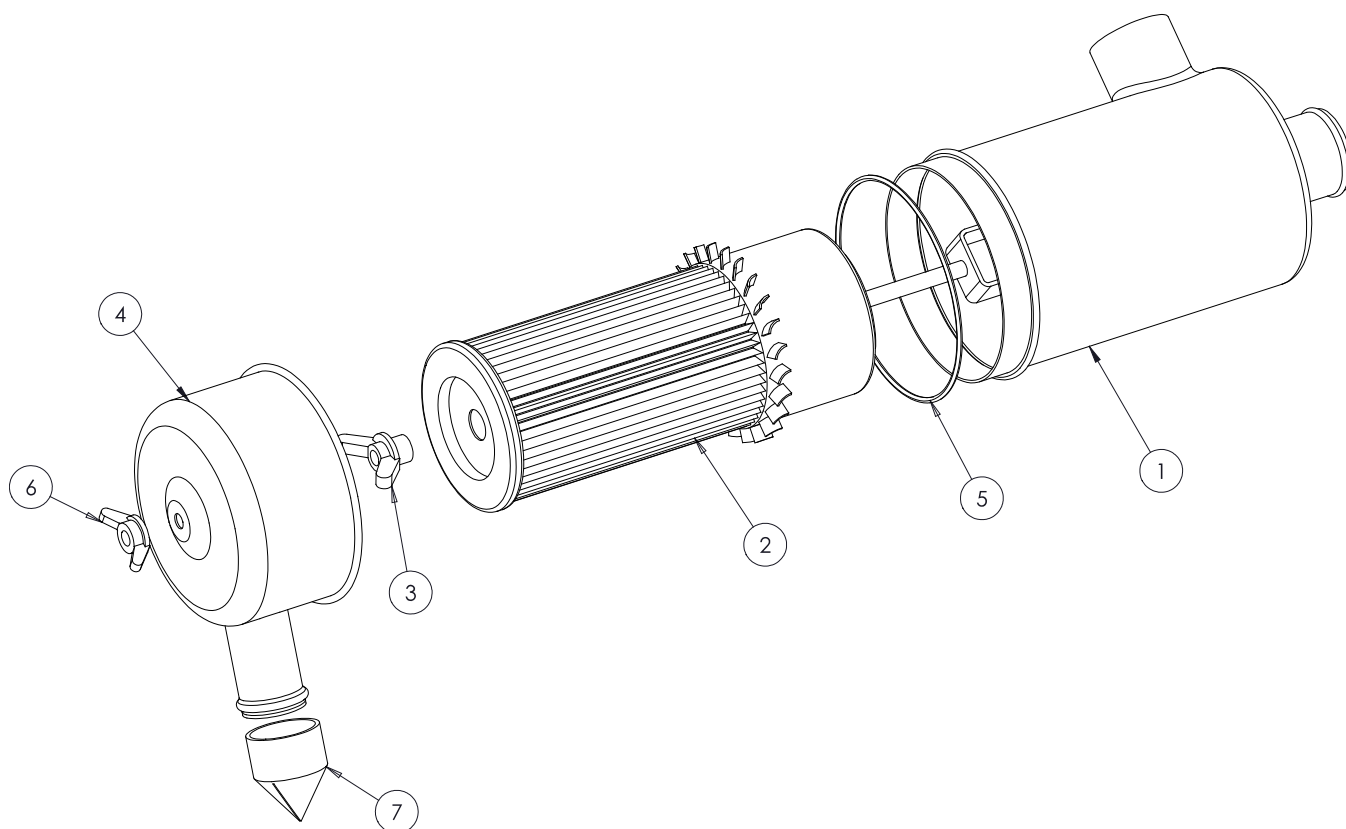


0260116

Air Cleaner Assembly

Air Cleaner Kit

| Item | Part No. | Qty. | Description |
|------|------------|------|--------------------|
| 1 | 068903-007 | 1 | FILTER COVER |
| 2 | 8036232 | 1 | AIR FILTER ELEMENT |
| 3 | 068903-003 | 1 | WING NUT |
| 4 | 068903-004 | 1 | FILTER COVER |
| 5 | 068903-005 | 1 | O-RING |
| 6 | 068903-006 | 1 | WING NUT |
| 7 | 068903-009 | 1 | DUST EJECTOR |

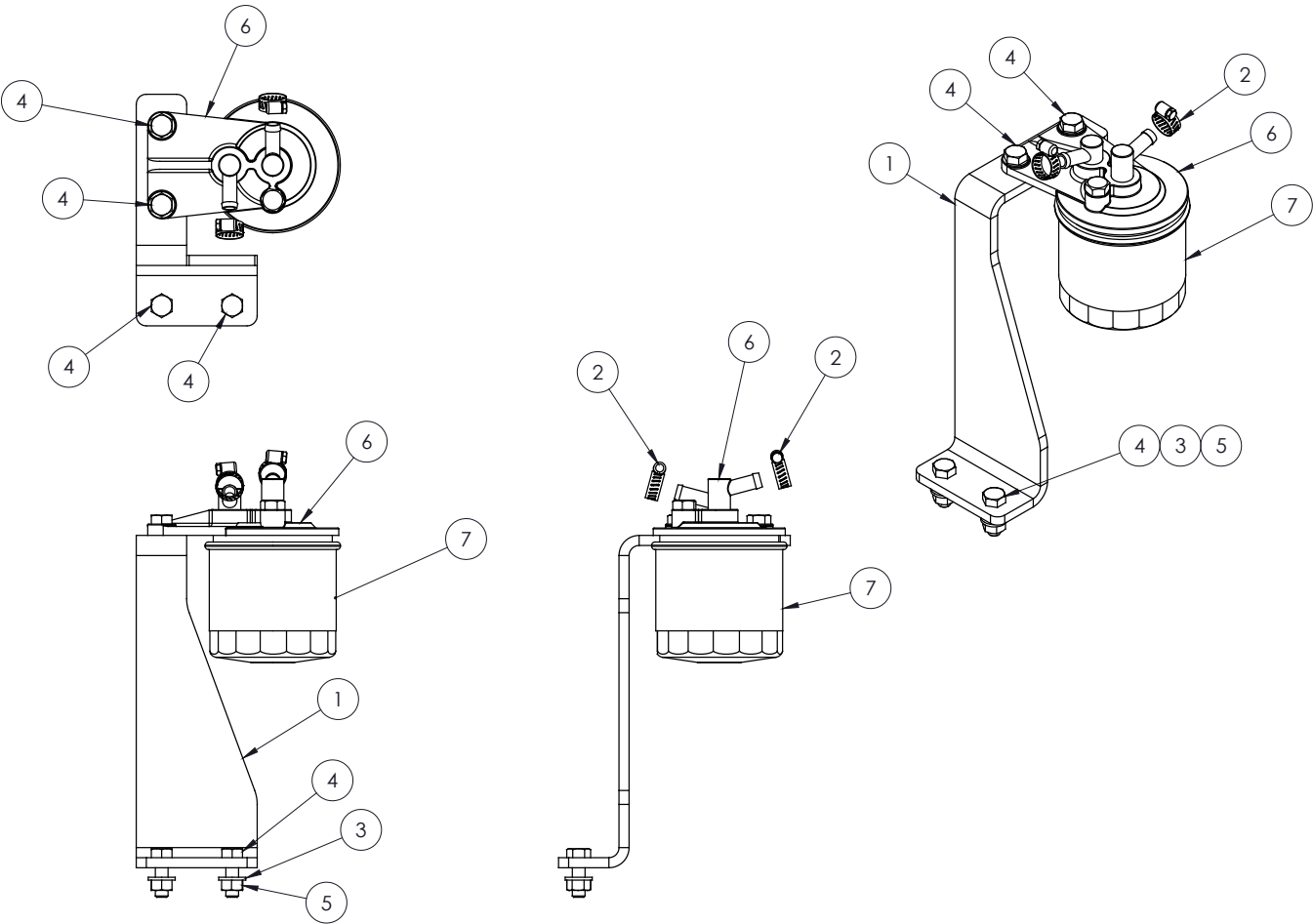


068903-000

Air Cleaner Kit

Fuel Filter Bracket Assembly

| Item | Part No. | Qty. | Description |
|------|-----------|------|-------------------------------|
| 1 | 0260060-3 | 1 | MOUNTING BRACKET |
| 2 | 5550028 | 2 | CLP WORM DRV .25-.63 .31 BAND |
| 3 | 5560613 | 2 | WASHER, FLAT M8 |
| 4 | 5560357 | 4 | BOLT, HEXHD M8-1.25 25MM |
| 5 | 5560727 | 4 | NUT, HEX LKG M8-1.25 |
| 6 | 5516338 | 1 | FUEL FILTER BRACKET |
| 7 | 5089677 | 1 | FUEL FILTER |

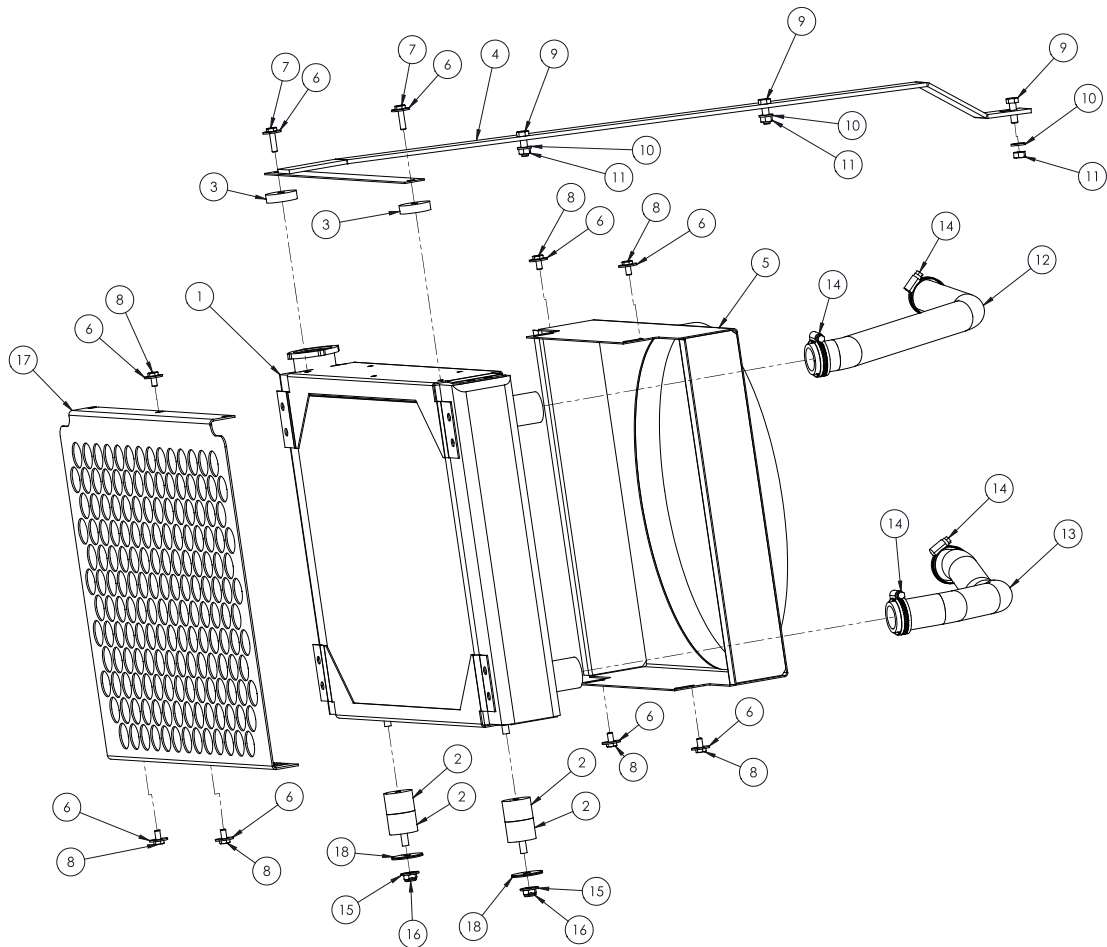


0260279

Fuel Filter Bracket Assembly

Radiator Assembly

| Item | Part No. | Qty. | Description |
|------|--------------|------|------------------------------|
| 1 | 068887-000 | 1 | RADIATOR |
| 2 | 068774-000 | 4 | VIBRATION ISOLATOR |
| 3 | 068934-000 | 2 | SHROUD SPACER |
| 4 | 116357-000-3 | 1 | SUPPORT WELDMENT |
| 5 | 0260472 | 1 | SHROUD WELDMENT |
| 6 | 986019 | 9 | WASHER, FLAT .25 |
| 7 | 970049 | 2 | BOLT, HEXHD .250-20 1.00 GR5 |
| 8 | 970009 | 7 | BOLT, HEXHD .250-20 .5 |
| 9 | 5560357 | 3 | BOLT, HEXHD M8-1.25 25 MM |
| 10 | 5560613 | 3 | WASHER, FLAT M8 |
| 11 | 5560727 | 3 | NUT, HEX LKG M8-1.25 |
| 12 | 109076-000 | 1 | HOSE, TOP RADIATOR |
| 13 | 109077-000 | 1 | HOSE, BOTTOM RADIATOR |
| 14 | 020541-011 | 4 | CLAMP, HOSE #20 |
| 15 | 986269 | 2 | WASHER, FLAT .313 |
| 16 | 5560004 | 2 | NUT, HEX LKG 5/16-18 |
| 17 | 068863-000 | 1 | RADIATOR SCREEN |
| 18 | 0260261 | 4 | RADIATOR SHIM |

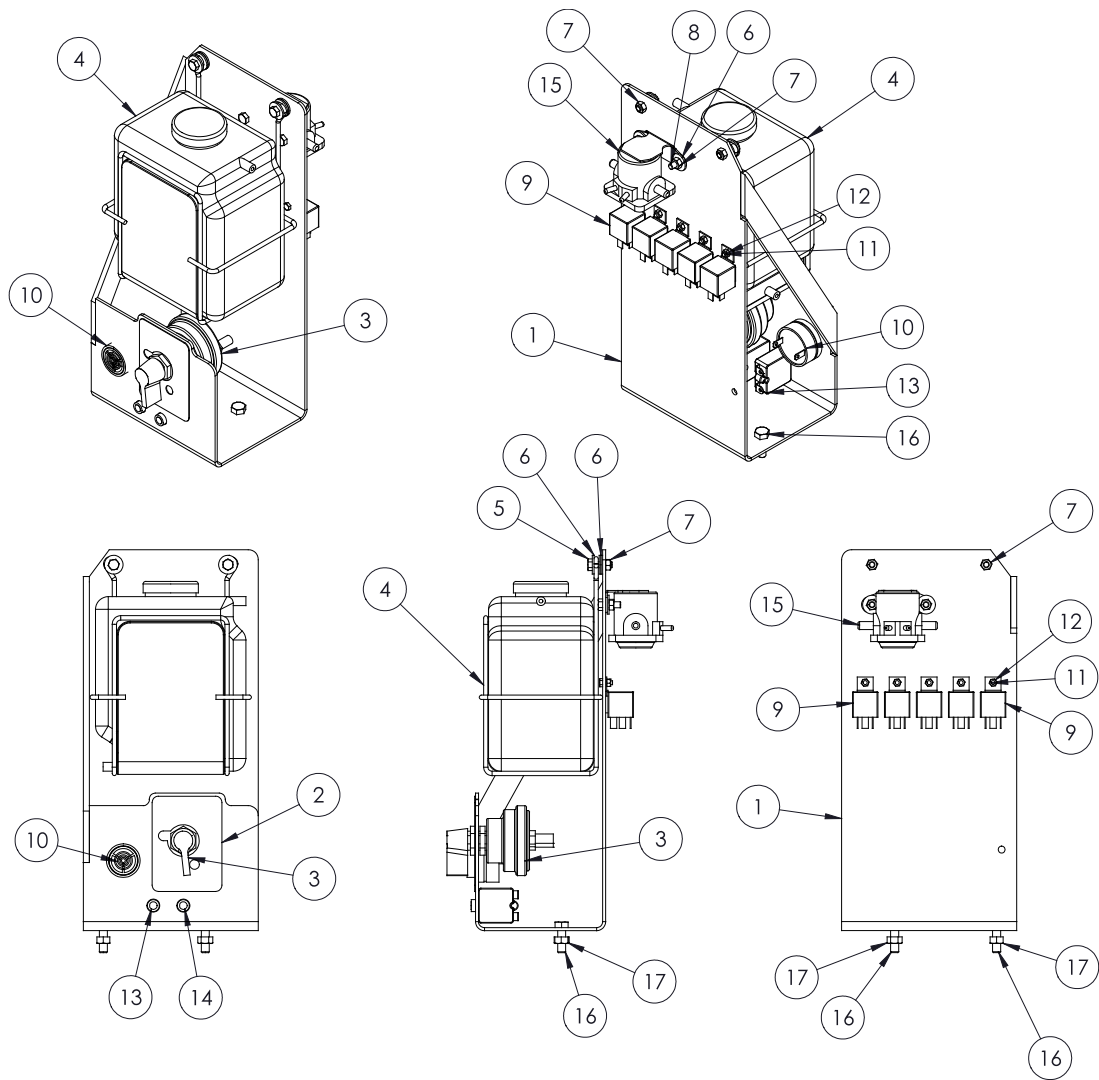


0260258-2

Radiator Assembly

Radiator Overflow Assembly

| Item | Part No. | Qty. | Description |
|------|------------|------|----------------------------|
| 1 | 0260086-3 | 1 | OVERFLOW RELAY BRACKET |
| 2 | 0161014 | 1 | PLACARD, BATTERY OFF/ON |
| 3 | 3020049 | 1 | SWITCH, BATTERY DISCONNECT |
| 4 | 068966-000 | 1 | RADIATOR OVERFLOW |
| 5 | 5569985 | 2 | BOLT, HEXHD M6-1.0 20MM |
| 6 | 5560629 | 8 | WASHER, FLAT M6 |
| 7 | 984169 | 4 | NUT, HEX LKG M6-1.0 |
| 8 | 975209 | 2 | BOLT, HEXHD M6-1.0 18MM |
| 9 | 3040469 | 5 | RELAY, SPDT 12V 30 AMP |
| 10 | 3040411 | 1 | ALARM, MINI SIREN 6-28VDC |
| 11 | 5563090 | 5 | BOLT, HEXHD M4 10MM |
| 12 | 5563091 | 5 | NUT, HEX LKG M4 |
| 13 | 3040252 | 1 | CIRCUIT BREAKER 15 AMP |
| 14 | 3040069 | 1 | CIRCUIT BREAKER 25 AMP |
| 15 | 027972-000 | 1 | SOLENOID, STARTER RELAY |
| 16 | 5560357 | 2 | BOLT, HEXHD M8-1.25 25MM |
| 17 | 5560727 | 2 | NUT, HEX LKG M8-1.25 |

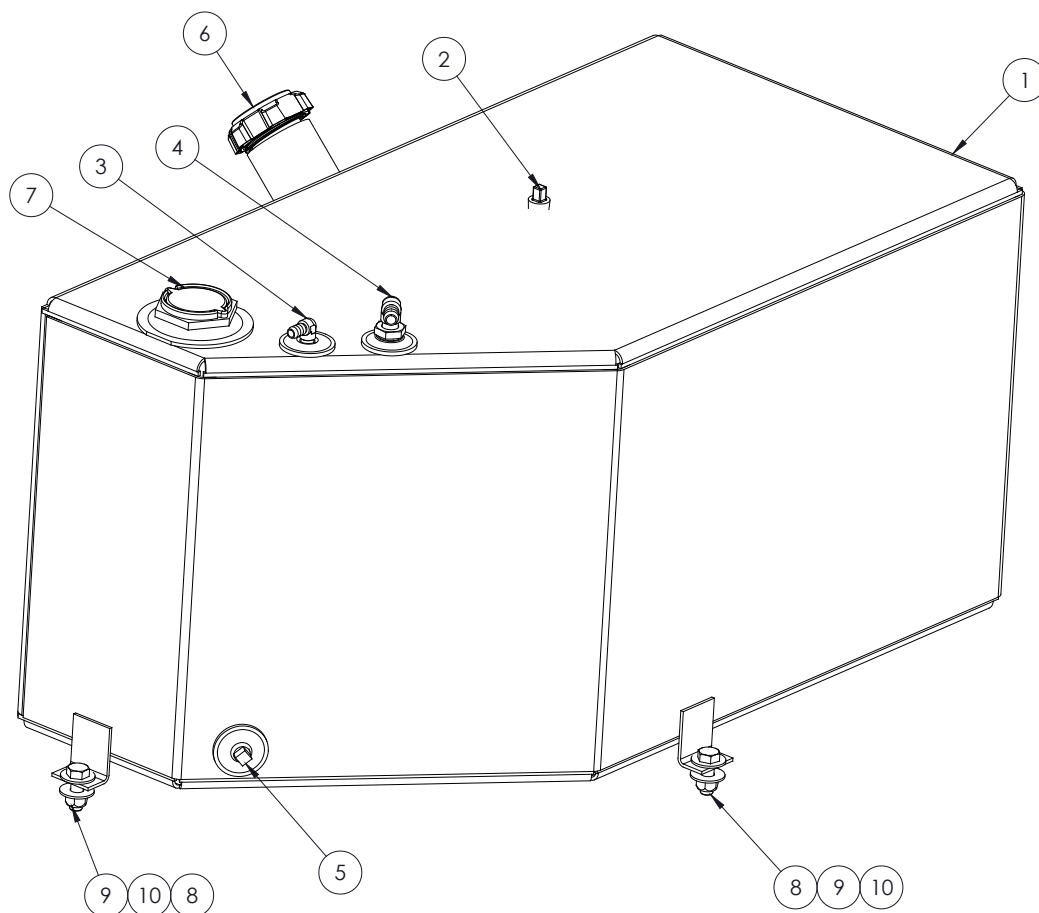


0260220

Radiator Overflow Assembly

Fuel Tank Assembly

| Item | Part No. | Qty. | Description |
|------|--------------|------|------------------------------|
| 1 | 068671-000-3 | 1 | FUEL TANK |
| 2 | 416426 | 1 | FTG PLG HOLLOW HEX -6NPT |
| 3 | 5093040 | 1 | FTG ELB90 MALE -4H-4H BR |
| 4 | 5093039 | 1 | FTG ELB90 MALE -6N-5H BR |
| 5 | 7714202 | 1 | PIPE PLUG 1/4 NPT SQ HD GALV |
| 6 | 9940235 | 1 | FUEL CAP, TETHERED |
| 7 | 063982-003 | 1 | FUEL GAUGE |
| 8 | 5560626 | 3 | BOLT, HEXHD M10-1.50 30MM |
| 9 | 984909 | 3 | NUT, HEX LKG M10 |
| 10 | 986009 | 6 | WASHER, FLAT M8 |

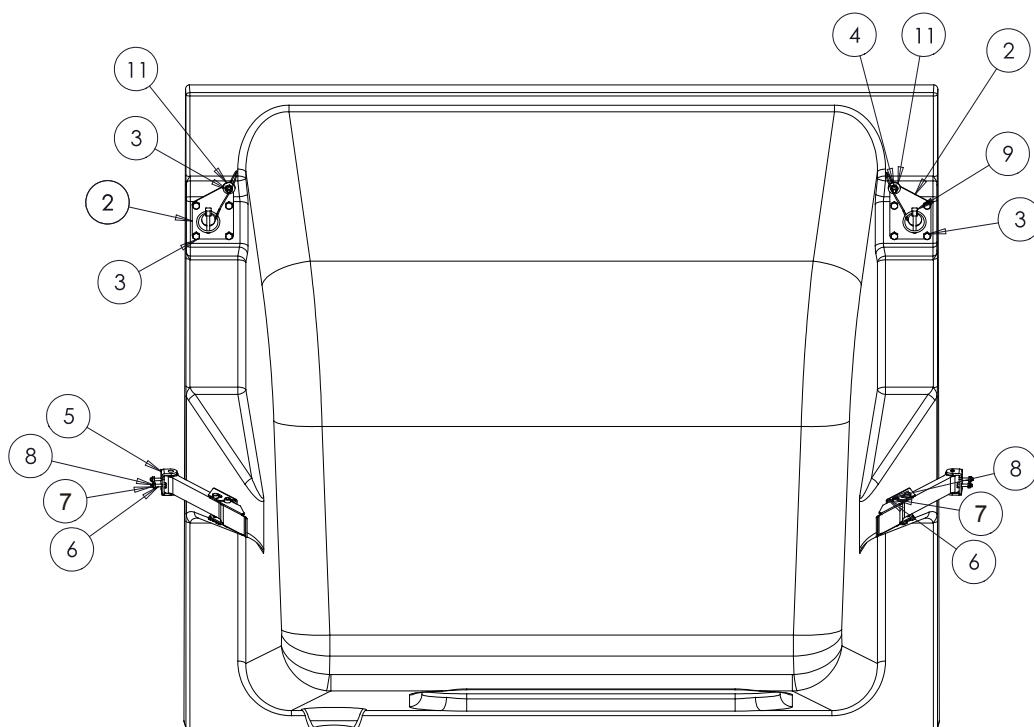
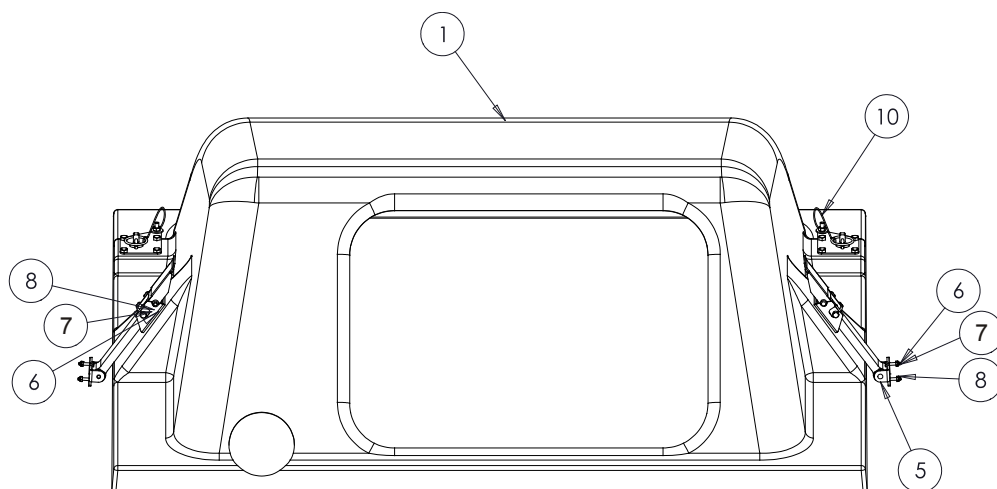


0260238

Fuel Tank Assembly

Engine Cowling Assembly

| Item | Part No. | Qty. | Description |
|------|--------------|------|----------------------------|
| 1 | 0260226-2 | 1 | ENGINE COWLING RT |
| 2 | 068878-000-2 | 2 | COWLING PLATE |
| 3 | 975209 | 10 | BOLT, HEXHD M6-1.0 X 18 MM |
| 4 | 984169 | 10 | NUT, HEX LKG M6-1.0 |
| 5 | 068904-000 | 2 | LATCHDRAW |
| 6 | 5563098 | 8 | BOLT, HEXHD M6-1.0 X 18 MM |
| 7 | 5563099 | 8 | WASHER, FLAT M4 |
| 8 | 5563100 | 8 | NUT, HEX M4 |
| 9 | 068898-001 | 2 | LYNCH PIN |
| 10 | 302574 | 2 | LANYARD |
| 11 | 5560629 | 2 | WASHER, FLAT M6 |



0260293-2

Engine Cowling Assembly

F

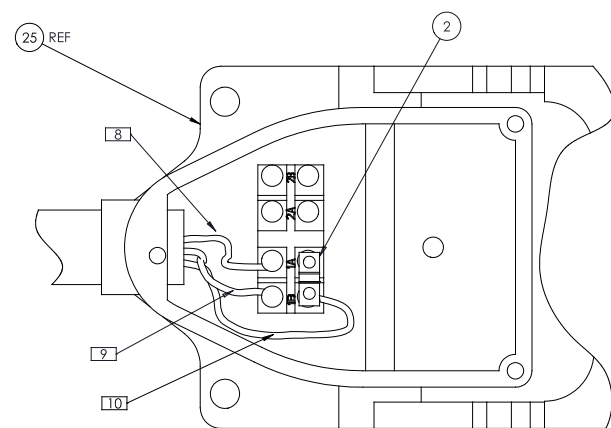
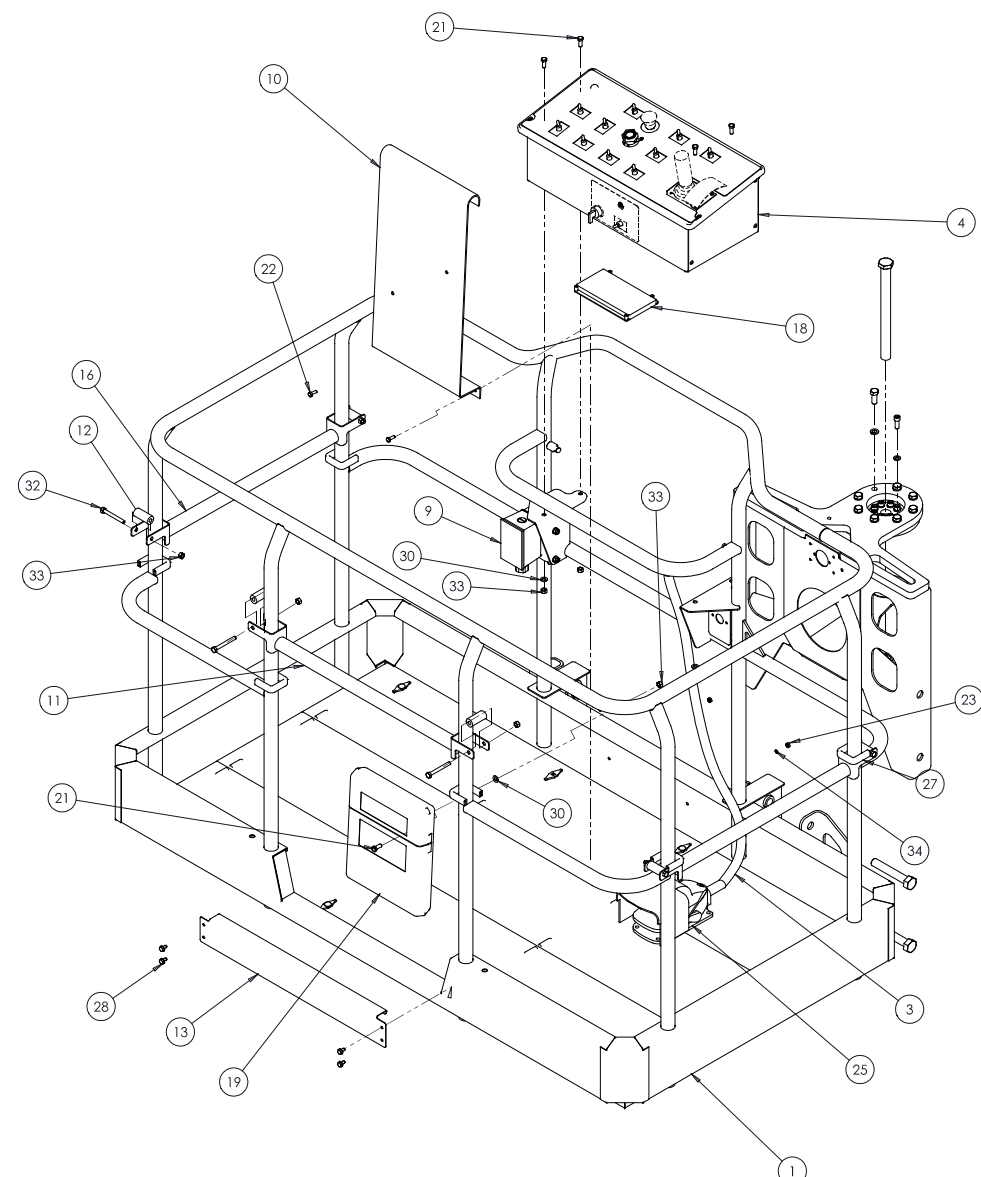
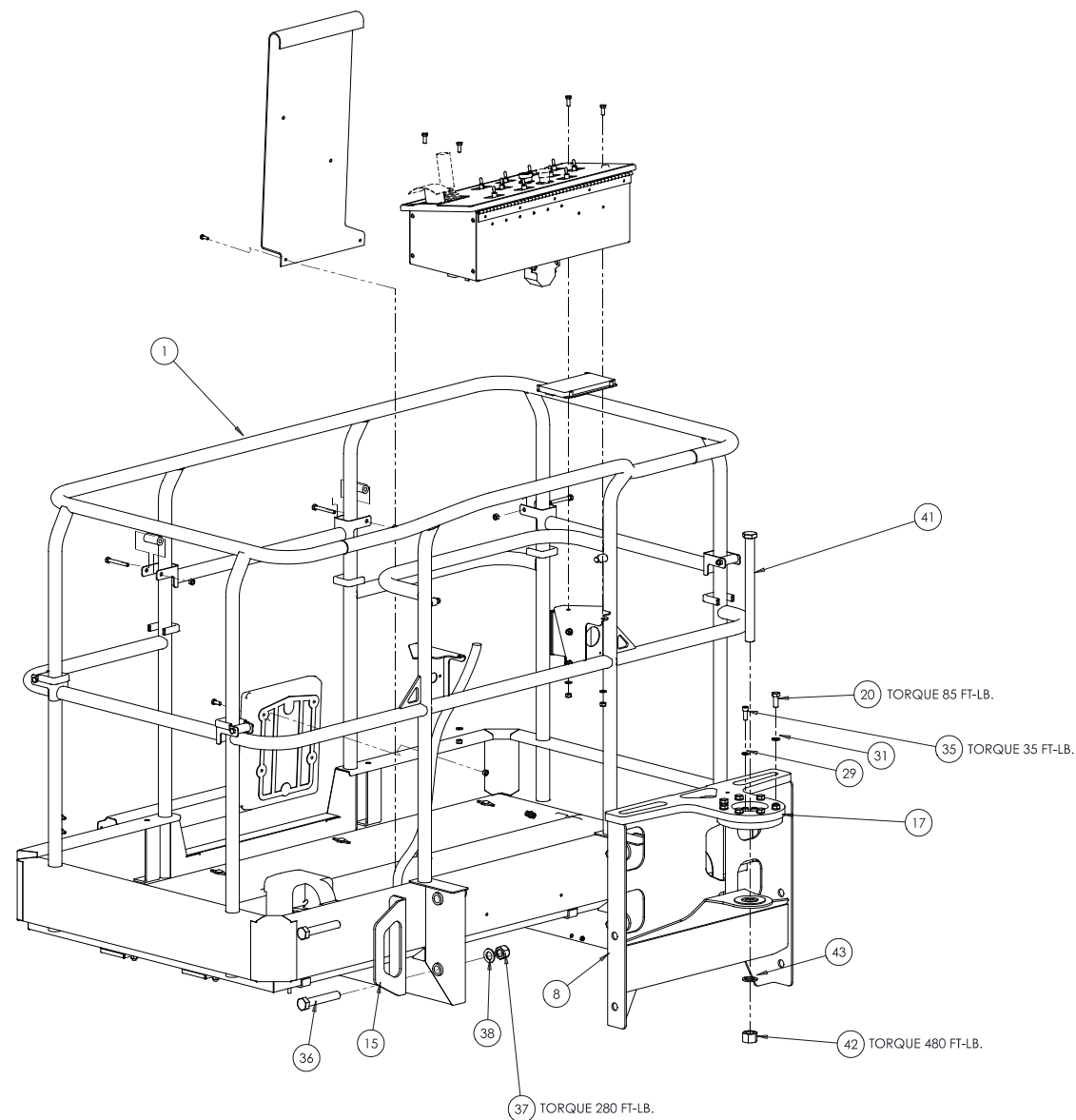
E

D

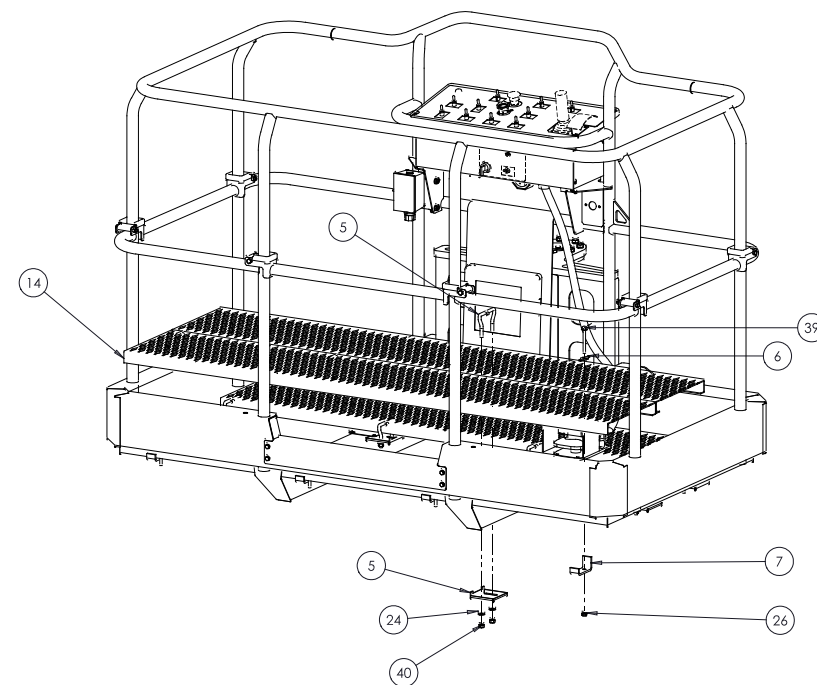
C

B

A



WIRING DIAGRAM FOR
FOOT CONTROL SWITCH



F

E

D

C

B

A

Repair Parts – 56

Platform Assembly

0260370

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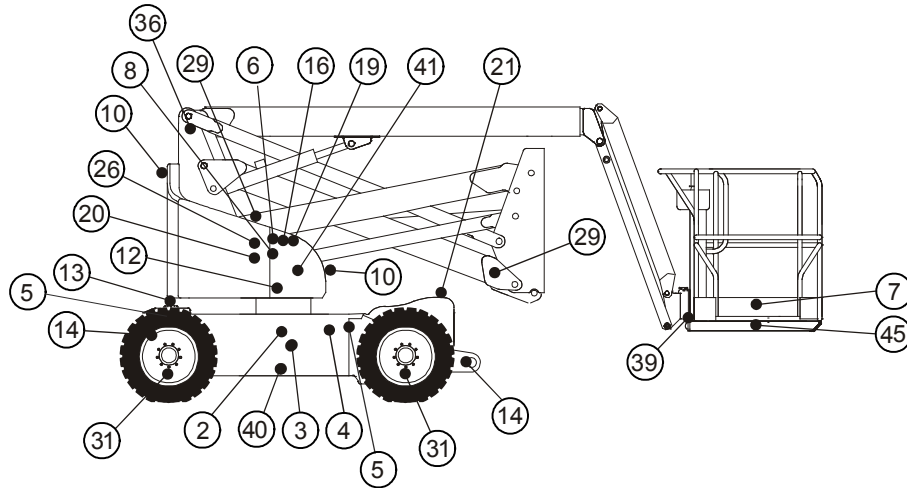
Platform Assembly

| Item | Part No. | Qty. | Description |
|------|---------------|--------|----------------------------------------------------------|
| 1 | 106530-001-01 | 1 | PLATFORM WELDMENT, 6 FOOT |
| 2 | 0060373 | 1 | JUMPER CONTROL |
| 3 | 0260047 | 1 | WIRE HARNESS, FOOT SWITCH |
| 4 | 0260079 | 1 | UPPER CONTROL PANEL ASSEMBLY, (REFER TO ELECTRICAL – 19) |
| 5 | 0260206 | 8 | ANCHOR PLATE |
| 6 | 0260208 | 8 | DIAMOND WASHER |
| 7 | 0260209 | 8 | ANGLE BRACKET |
| 8 | 0260222 | 1 | CAGE MOUNT |
| 9 | 0260501 | 1 | AC POWER, (REFER TO ELECTRICAL – 33) |
| 10 | 100468-001 | 1 | PANEL DECAL MOUNT |
| 11 | 100478-000 | 1 | LIFT GATE WELDMENT |
| 12 | 100481-000 | 6 | ROLLER TUBE |
| 13 | 102244-000 | 1 | GATE SILL |
| 14 | 102271-061 | 3 | GRIP STRUT |
| 15 | 102373-000 | 2 | CHAIN TIEDOWN BRACKET |
| 16 | 116342-000 | 2 | LIFT GATE |
| 17 | 116346-000 | 1 | PLATFORM OVERLOAD SENSOR (REFER TO ELECTRICAL – 67) |
| 18 | 116347-000 | 1 | OVERLOAD CONTROL MODULE (REFER TO ELECTRICAL – 67) |
| 19 | 562386 | 1 | LITERATURE COMPARTMENT |
| 20 | 565476 | 8 | BOLT, HEXHD M12 X 1.75 X 35MM |
| 21 | 972029 | 6 | BOLT, HEXHD M8-1.25 20MM |
| 22 | 975209 | 2 | BOLT, HEXHD M6-1.0 X 18MM |
| 23 | 984169 | 2 | NUT, HEX LKG M6-1.0 |
| 24 | 986299 | 16 | WASHER, FLAT .375 |
| 25 | 3020021 | 1 | PLATFORM FOOT SWITCH, (REFER TO ELECTRICAL – 11) |
| 26 | 5560031 | 8 | NUT, HEX LKG 5/16-18 |
| 27 | 5560083 | 4.5 FT | HOSE GUIDE EDGE COVER |
| 28 | 5560288 | 4 | SCREW SLFTP G .250-.50 TYPE B |
| 29 | 5560356 | 8 | WASHER, LOCK M10 |
| 30 | 5560613 | 6 | WASHER, FLAT M8 |
| 31 | 5560614 | 8 | WASHER, LOCK M12 |
| 32 | 5560627 | 6 | BOLT, HEXHD M8-1.25 70 MM |
| 33 | 5560727 | 12 | NUT, HEX LKG M8-1.25 |
| 34 | 5563051 | 2 | WASHER LOCK M6 |
| 35 | 5563070 | 8 | BOLT, SKTHD .375-16 1.00 |
| 36 | 5563075 | 4 | BOLT, HEXHD M20-2.5 X 120 MM |
| 37 | 5563076 | 4 | NUT, HEX LKG M20-2.5 |
| 38 | 5563077 | 4 | WASHER, FLAT M20 |
| 39 | 5563083 | 7 | BOLT, CARRIAGE 5/16-18 X 3 |
| 40 | 5566033 | 16 | NUT, LKG .375-16 |
| 41 | 5569989 | 1 | BOLT, HEXHD M24 X 3.0 X 280 G10.9 |
| 42 | 5569990 | 1 | NUT, HEX LKG M24-3.0 |
| 43 | 5563135 | 1 | WASHER, 1.00 ID 1.5 OD .125 |

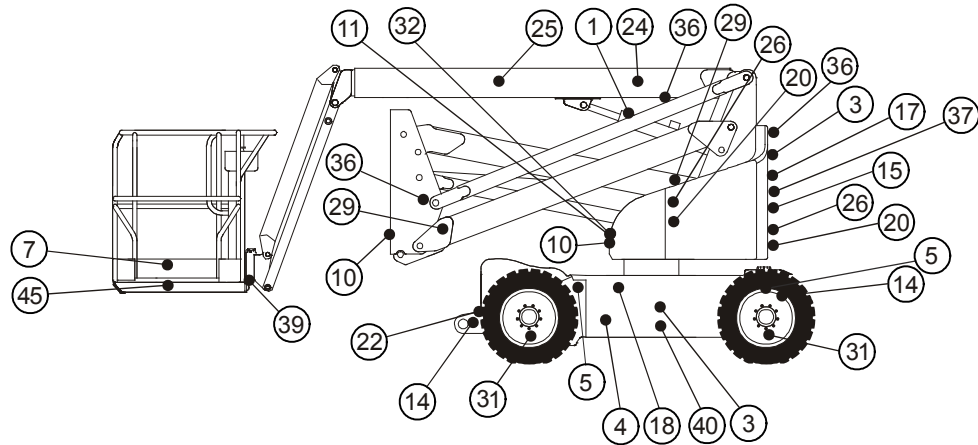
0260370

Platform Assembly

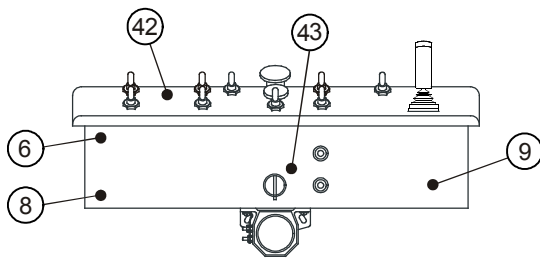
Placards and Decals



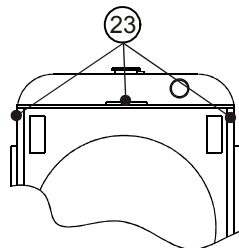
Left Side



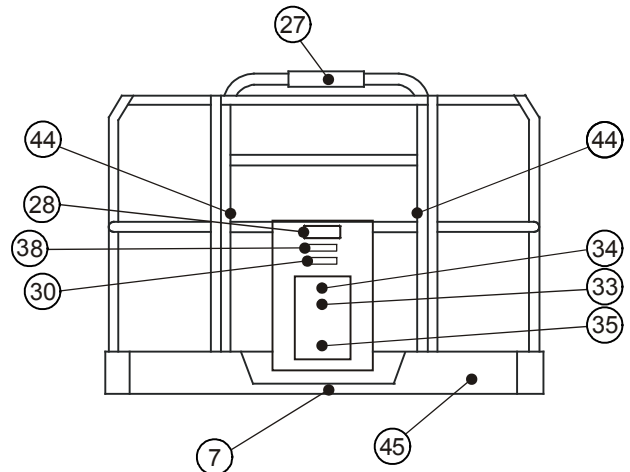
Right Side



Upper Control Box



Radiator



Platform

AB46RT Decals

Placards and Decals

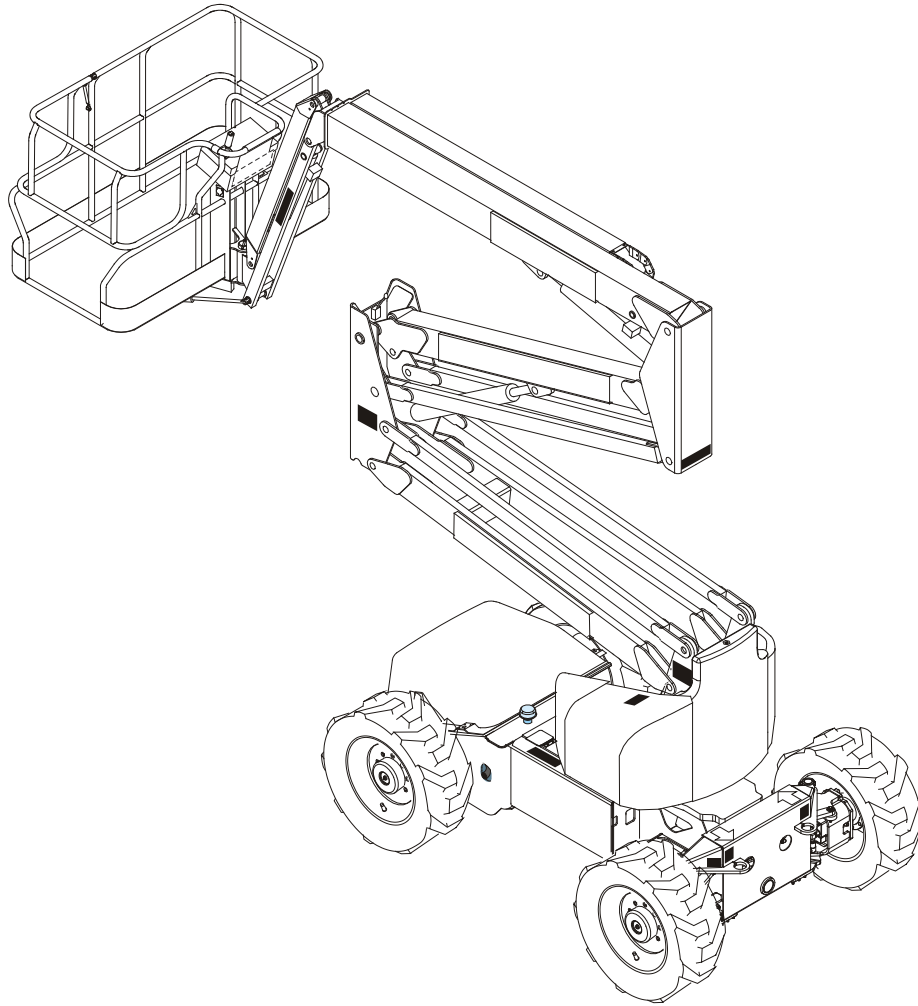
Placards and Decals

| Item | Part No. | Qty. | Description |
|------|------------|------|--------------------------------------------------------|
| 1 | 0074311 | 7 | DECAL DNGR CYLINDER FAILURE – ONE PER CYLINDER |
| 2 | 0071926 | 1 | DECAL DIESEL FUEL |
| 3 | 508234-000 | 3 | DECAL UPRIGHT BRAND LOGO 3.00" |
| 4 | 0075544 | 2 | DECAL ASSEMBLED IN THE USA |
| 5 | 0260428 | 4 | DECAL WHEEL LOADING AB46 |
| 6 | 0162329E | 2 | DECAL ADDITIONAL OPERATING INSTRUCTIONS |
| 7 | 0090589E | 3 | PLACARD 227KG 2 PERSON CAPACITY |
| 8 | 0162328E | 2 | DECAL BRIEF OPERATING INSTRUCTIONS |
| 9 | 0161819E | 1 | DECAL EMERGENCY LOWERING PROCEDURE |
| 10 | 0150602 | 4 | DECAL DNGR DESCENDING BOOM |
| 11 | 0073492 | 1 | DECAL ROTATE WHILE GREASING |
| 12 | 0162337 | 1 | DECAL EMERGENCY LOWERING PROCEDURE W/SYMBOLS |
| 13 | 0151917 | 1 | DECAL DIR ARROWS FR MT FWD/RVS |
| 14 | 0083427 | 4 | DECAL LIFT/TIE DOWN |
| 15 | 508235-000 | 1 | DECAL 4X4 LOGO |
| 16 | 0162311 | 1 | DECAL CE LOGO |
| 17 | 0260133 | 1 | DECAL AB46RT LOGO 3.5" |
| 18 | 0071927 | 1 | DECAL HYDRAULIC OIL |
| 19 | 0182077E | 1 | DECAL CE NOICE LEVEL |
| 20 | 0162336E | 3 | DECAL ELECTRICAL HAZARD |
| 21 | 0150452 | 1 | DECAL DIRECTION ARROWS FWD/RVS |
| 22 | 0074372 | 1 | PLACARD ENGINE RPM |
| 23 | 0151410E | 3 | DECAL DNGR ROTATING PARTS |
| 24 | 0260132 | 1 | DECAL AB46RT LOGO 5" |
| 25 | 508234-003 | 1 | DECAL UPRIGHT BRAND LOGO 5.00 |
| 26 | 0162366 | 3 | DECAL ELECTRICAL HAZARD SYMBOL |
| 27 | 0072531 | 1 | DECAL DNGR ELEC HAZARD |
| 28 | 0072541 | 1 | DECAL DANGER DO NOT OPERATE |
| 29 | 0162365 | 4 | DECAL CRUSHING HAZARD SYMBOL |
| 30 | 0071425 | 1 | PLACARD PLATF IDENTIFICATION |
| 31 | 0072277 | 4 | PLACARD LUG NUT TORQUE 200-225 FT LB |
| 32 | 0075656 | 1 | PLACARD CAUTION SERIAL NUMBER |
| 33 | 0073043 | 1 | DECAL MANUAL HOLDER |
| 34 | 0073224 | 1 | DECAL NOTICE MANUAL RE-ORDER |
| 35 | 562386 | 1 | COMPARTMENT LITERATURE 8.5 X 11 |
| 36 | 451986 | 4 | DECAL DNGR DO NOT ALTER SW |
| 37 | 0260442 | 1 | DECAL LIFT/TIE DN LCTN AB46 |
| 38 | 0182236 | 1 | DECAL CAUTION PLATFORM CONTROLS |
| 39 | 0083426 | 2 | DECAL TIE DOWN SYMBOL |
| 40 | 0073298 | 2 | DECAL DANGER FOAM/SOLID TIRES – FOAM FILLED TIRES ONLY |
| 41 | 0260198 | 1 | PLACARD LOWER CONTROL BOX |
| 42 | 0260013 | 1 | PLACARD UPPER CONTROL BOX TOP |
| 43 | 0260014 | 1 | PLACARD UPPER CONTROL BOX FRONT |
| 44 | 0150448 | 2 | DECAL ATTACH FALL RESTRAINT |
| 45 | 7030001 | AR | MARKER TAPE 2" RED/WHITE – SOLD IN 108' ROLL |

AB46RT Decals

Placards and Decals

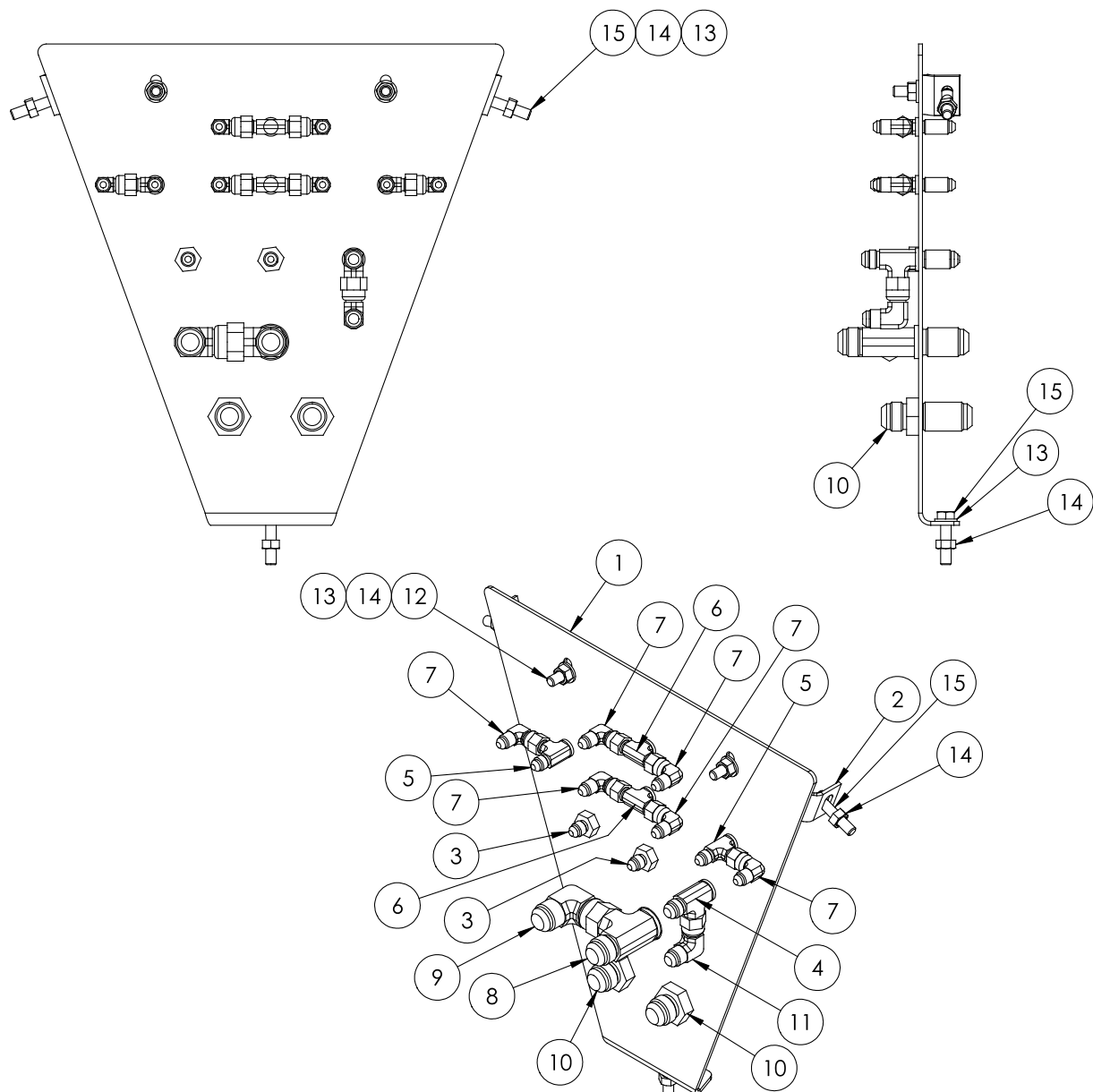
Hydraulics



AB46RT

Hydraulic Bulkhead Assembly

| Item | Part No. | Qty. | Description |
|------|-----------|------|--------------------------------|
| 1 | 0260100-3 | 1 | PLT, HYD BULKHEAD |
| 2 | 0260101-3 | 1 | PLT, HYD BULKHEAD BRKT |
| 3 | 5034401 | 2 | FTG UN BHD STR-4S-4S STL-4 WTX |
| 4 | 5035405 | 1 | FTG TEE BHD RUN-6S-6S STL |
| 5 | 5035403 | 2 | FTG TEE BHD RUN-4S-4S STL |
| 6 | 5035003 | 2 | FTG TEE BHD BR-4S-4S STL |
| 7 | 5037003 | 6 | FTG ELB90SWVL-4S-4S STL |
| 8 | 5033015 | 1 | FTG TEE BHD -10F-10F STL W/NUT |
| 9 | 5033018 | 1 | FTG ELB SWVL -10F-10F STL |
| 10 | 5028003 | 2 | FTG UN BHD -10F-10F STL W/NUT |
| 11 | 5037005 | 1 | FTG ELB90SWVL-6S-6S STL |
| 12 | 5560357 | 2 | BLT HEXHD M8-1.25 25MM |
| 13 | 5560613 | 5 | WSHR FLAT M8 |
| 14 | 5560727 | 5 | NUT HEX LKG M8-1.25 |
| 15 | 5560632 | 3 | BLT HEXHD M8-1.25 35MM |

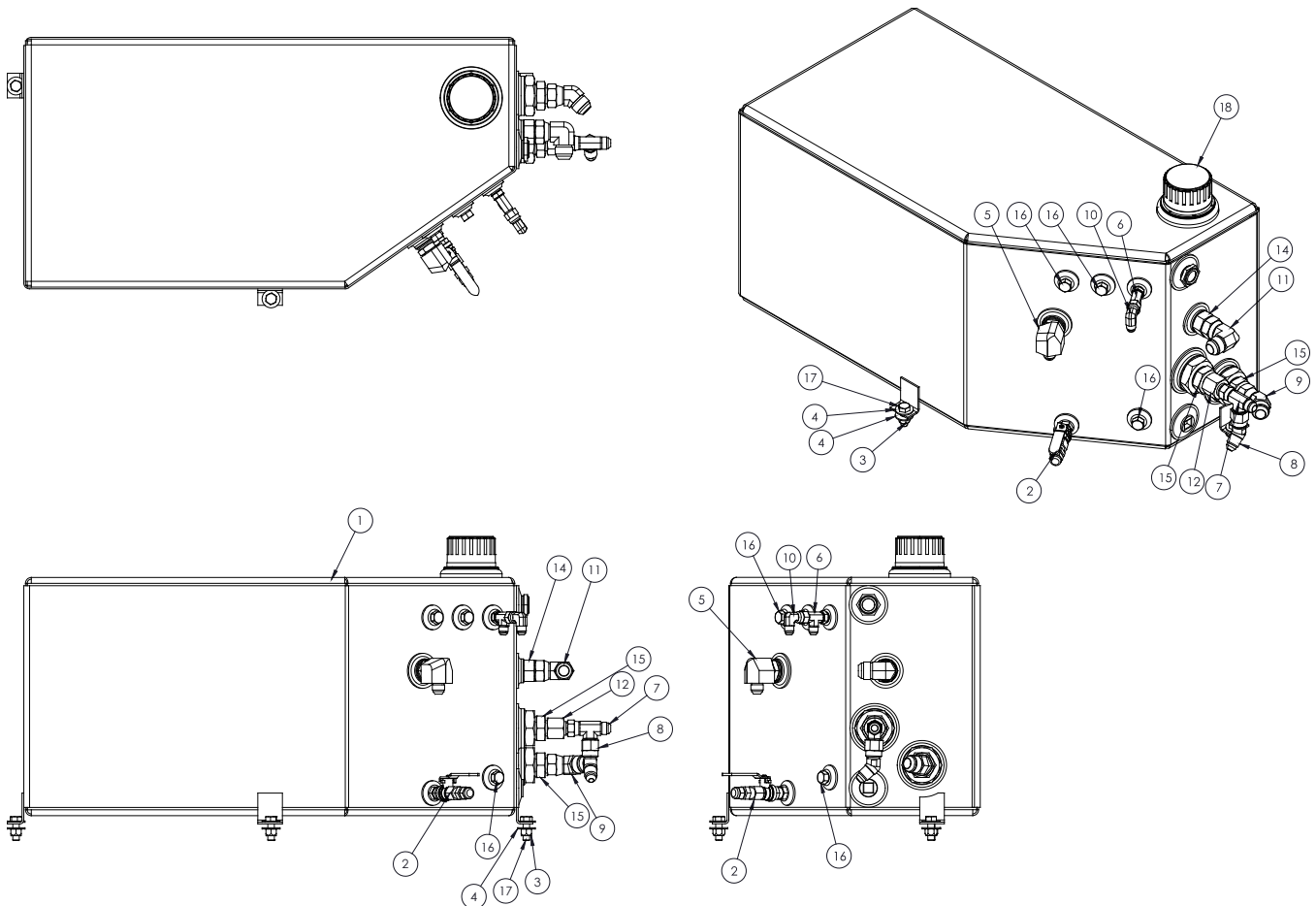


0260102

Hydraulic Bulkhead Assembly

Hydraulic Tank Assembly

| Item | Part No. | Qty. | Description |
|------|----------|------|------------------------------------|
| 1 | 0260050 | 1 | HYDRAULIC TANK |
| 2 | 0260051 | 1 | VALVE, HYDRAULIC TANK DRAIN |
| 3 | 984909 | 3 | NUT, HEX LKG M10 |
| 4 | 986009 | 6 | WASHER, FLAT M8 |
| 5 | 5035333 | 1 | FTG ELB90STRTHD -12B-8S STL |
| 6 | 5036105 | 1 | FTG TEE STRTHD RUN -6B-6S STL |
| 7 | 5036706 | 1 | FTG TEE SWVL RUN -8S-8S STL |
| 8 | 5036906 | 1 | FTG ELB 45SWVL -8S-8S STL |
| 9 | 5096908 | 1 | FTG ELB45SWVL -12S-12S STL |
| 10 | 5037005 | 1 | ADAPTER 90 DEG ELBOW SWIVEL -6 JIC |
| 11 | 5037008 | 1 | FTG ELB90SWVL -12S-12S STL |
| 12 | 5063908 | 1 | FTG NUT -12S STL |
| 13 | 5064008 | 1 | FTG RDCR -12S-8S W/O NUT STL |
| 14 | 5065714 | 1 | FTG ADPTR STRTHD -12B-12S STL |
| 15 | 5065715 | 2 | FTG ADPTR STRTHD -16B-12S STL |
| 16 | 5075205 | 2 | FTG PL HEXHD -6B STL |
| 17 | 5560626 | 3 | BOLT, HEXHD M10-1.50 30MM |
| 18 | 0260515 | 1 | FILLER CAP |

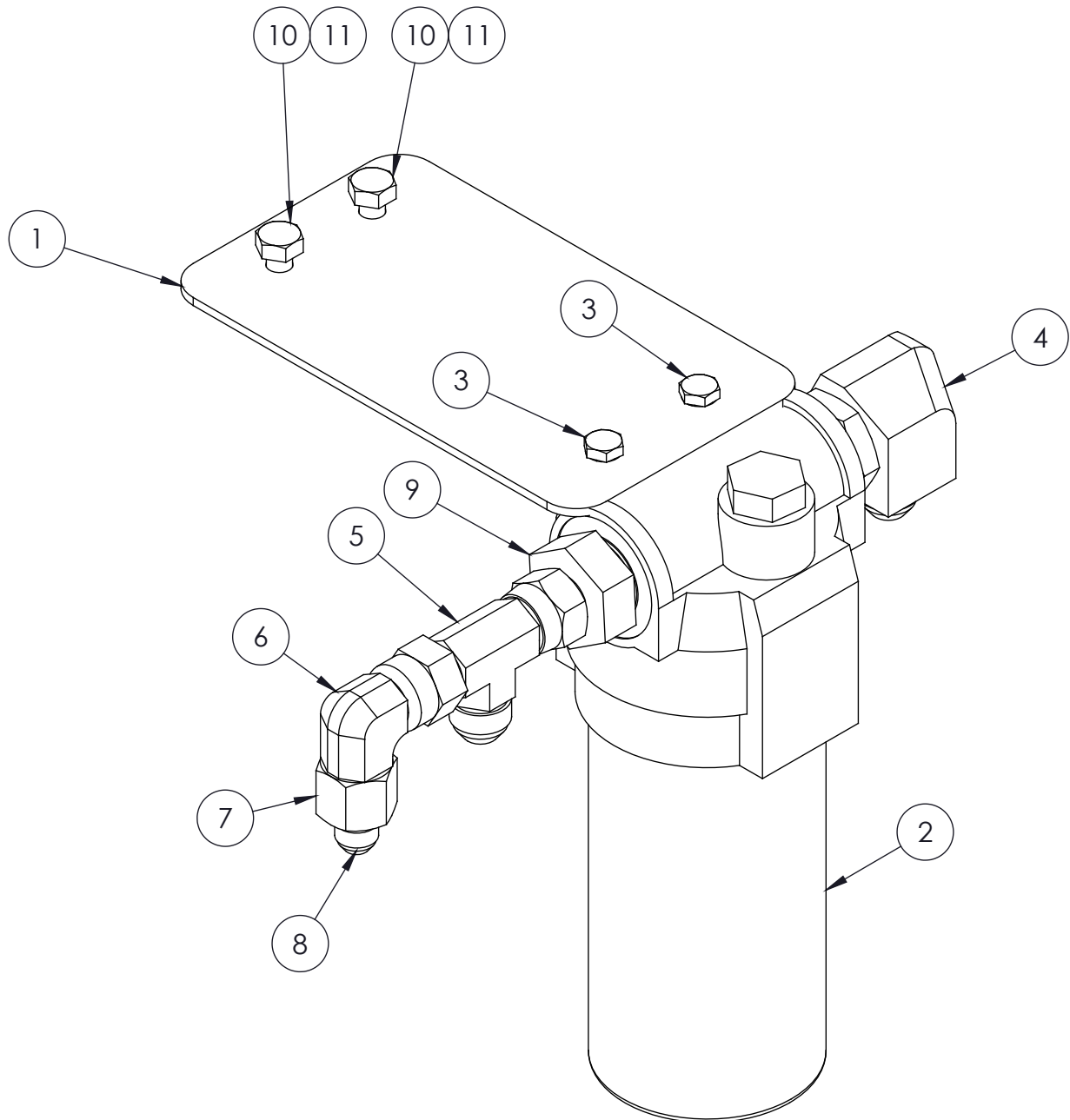


0260237

Hydraulic Tank Assembly

Hydraulic Oil Pressure Filter Assembly

| Item | Part No. | Qty. | Description |
|------|------------|------|------------------------------------|
| 1 | 0260073 | 1 | MOUNTING BRACKET |
| 2 | 100289-000 | 1 | HYDRAULIC OIL PRESSURE FILTER |
| 3 | 970009 | 2 | BOLT, HEXHD .250-20 X 0.5 |
| 4 | 5035333 | 1 | FTG ELB90STRTHD -12B-8S STL |
| 5 | 5036706 | 1 | FTG TEE SWVL RUN -8S-8S STL |
| 6 | 5037006 | 1 | ADAPTER 90 DEG ELBOW SWIVEL -8 JIC |
| 7 | 5063906 | 1 | FTG RDCR -6S-4S W/O NUT |
| 8 | 5064003 | 1 | FTG RDCR -8S-6S W/O NUT |
| 9 | 5065711 | 1 | ADAPTER STRAIGHT -12 SAE TO -8 JIC |
| 10 | 5560357 | 2 | BOLT, HEXHD M8 1.25 X 25MM |
| 11 | 5560727 | 2 | NUT, HEX LKG M8 1.25 |

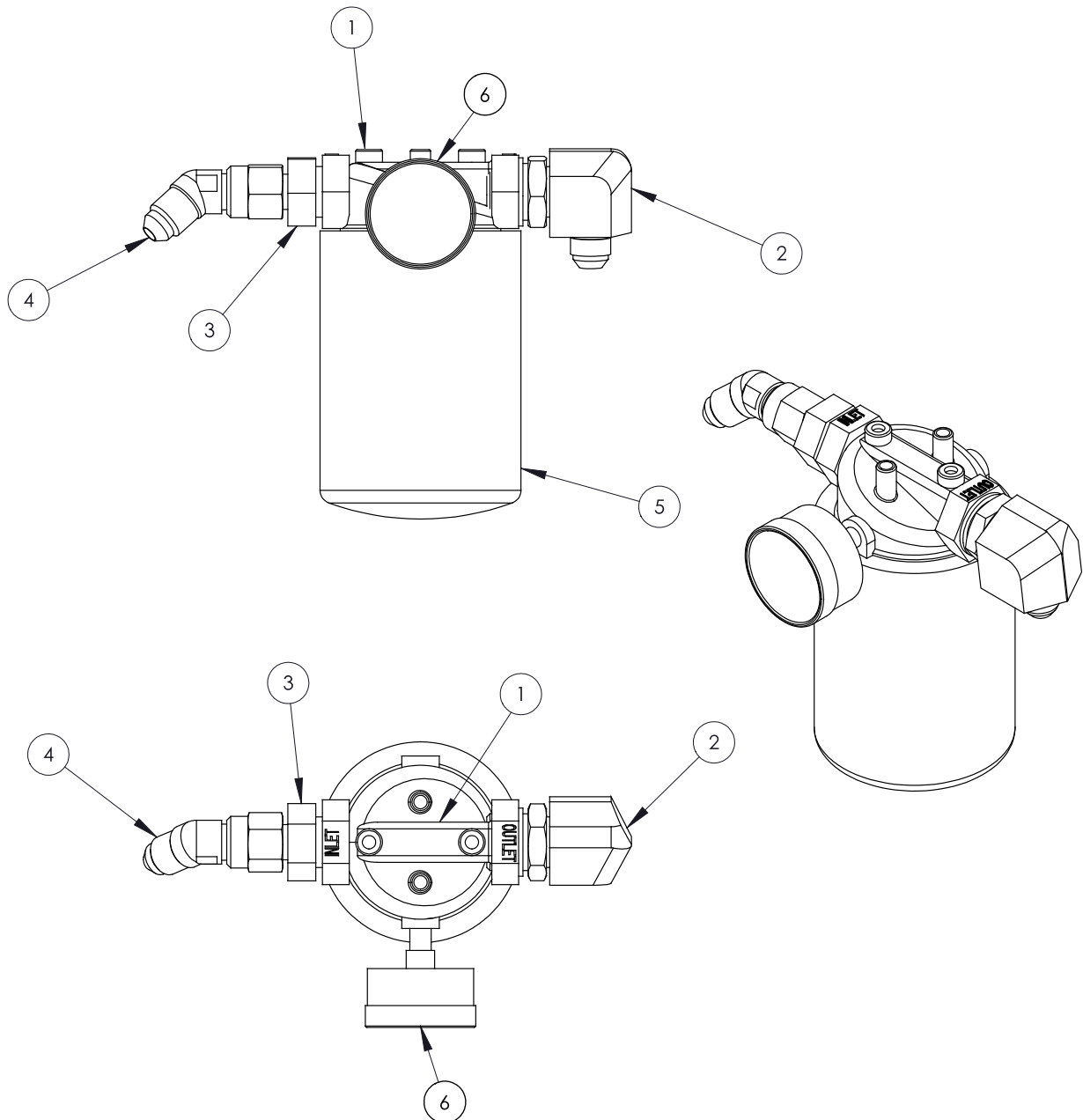


0260272

Hydraulic Oil Pressure Filter Assembly

Hydraulic Oil Return Filter Assembly

| Item | Part No. | Qty. | Description |
|------|----------|------|------------------------------------------------------------|
| | 0260489 | 1 | HYDRAULIC OIL RETURN ASSEMBLY (INCLUDES ITEMS 1 THROUGH 5) |
| 1 | 301440 | 1 | RETURN OIL FILTER (INCLUDES ITEM 5) |
| 2 | 5035333 | 1 | FTG ELB90STRTHD -12B-8S STL |
| 3 | 5065711 | 1 | ADAPTER STRAIGHT -12 SAE TO -8 JIC |
| 4 | 5036906 | 1 | FTG ELB 45 SWVL -8S-8S STL |
| 5 | 5080025 | 1 | FILTER ELEMENT, SPIN ON |
| 6 | 5080011 | 1 | FILTER CONDITION GAUGE |

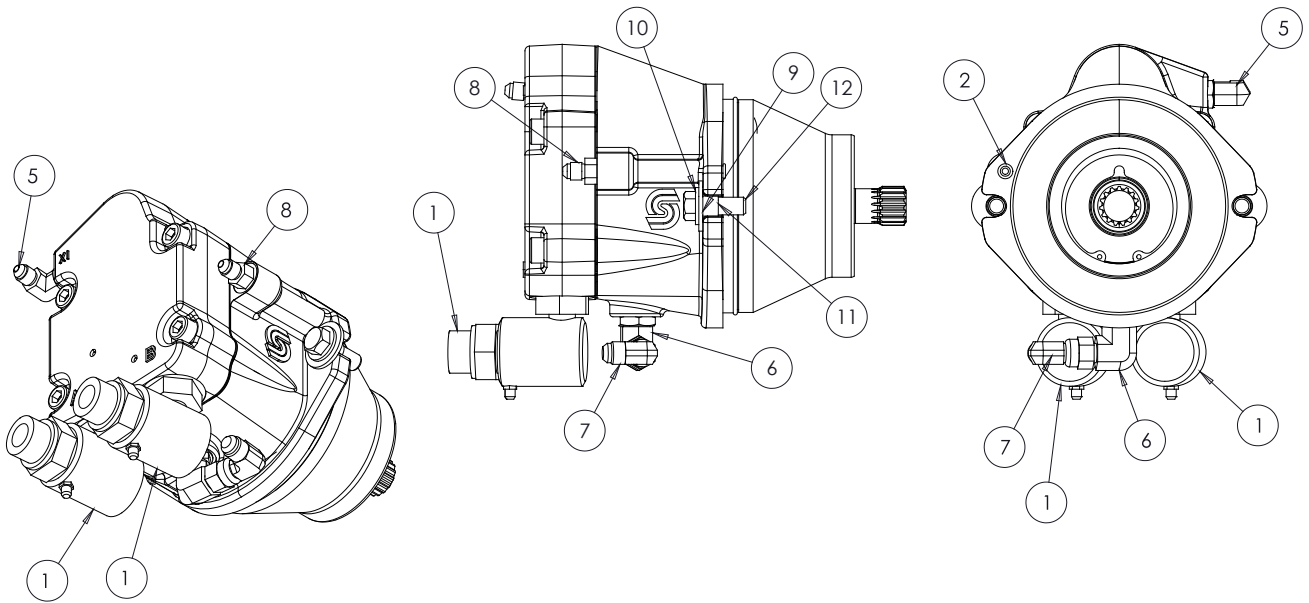


0260489

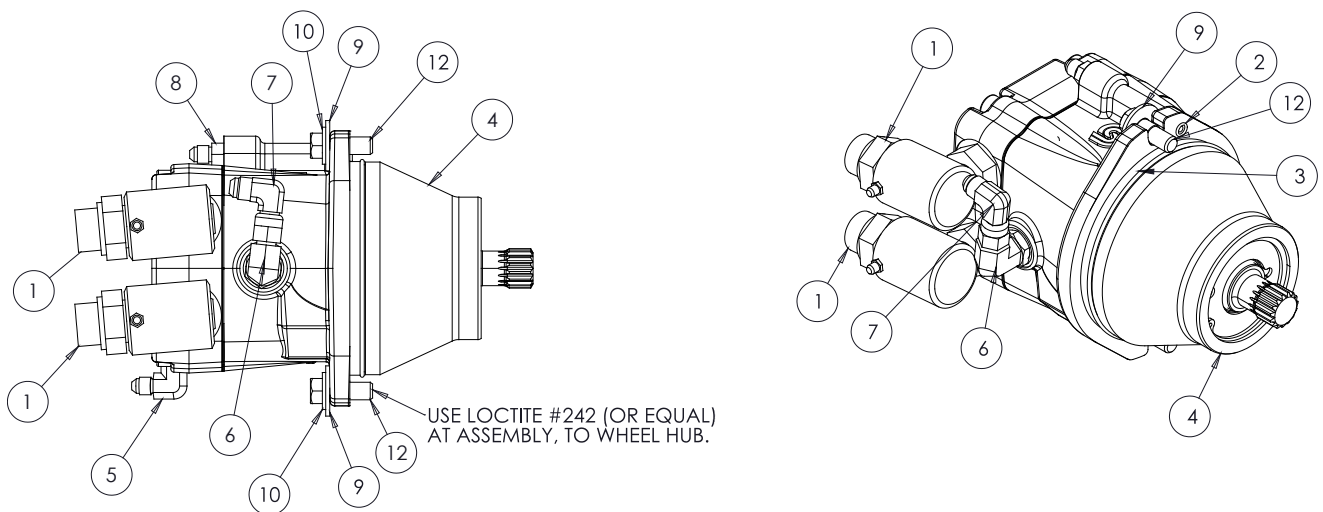
Hydraulic Oil Return Filter Assembly

Front Drive Motor Assembly

| Item | Part No. | Qty. | Description |
|------|--------------|------|------------------------------------|
| 1 | 0260054 | 2 | FTG, SUPER SWIVEL |
| 2 | 0260070 | 1 | O-RING 1/4 ID 3/8 OD |
| 3 | 0260099 | 1 | O-RING 0.103 X 4.737 |
| 4 | 116325-000-3 | 1 | DRIVE MOTOR |
| 5 | 5035318 | 1 | FTG ELB 90 STRTHD -6B-4S STL |
| 6 | 5035320 | 1 | FTG ELB 90 STRTHD -8B-6S STL |
| 7 | 5037005 | 1 | ADAPTER 90 DEG EBLow SWIVEL -6 JIC |
| 8 | 5065703 | 1 | ADAPTER STRAIGHT -4 SAE TO -4 JIC |
| 9 | 5560168 | 2 | WASHER, FLAT .500 HARDENED |
| 10 | 5563115 | 2 | WASHER, FLAT 7/16 HARDENED |
| 11 | 0260430 | 2 | BUSHING, HYDRAULIC MOTOR MOUNT |
| 12 | 5563116 | 2 | BOLT, HEXHD 7/16-14 X 1.25 GR8 |



Note: Do not misplace Item 2. Components will leak if Item 2 is not in place.

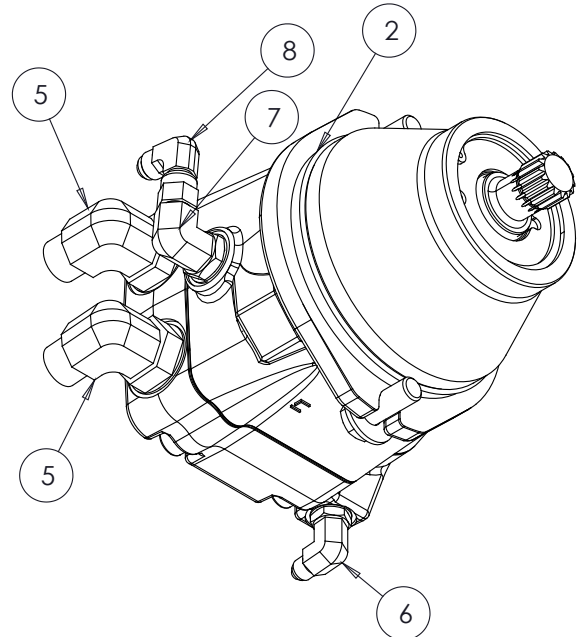
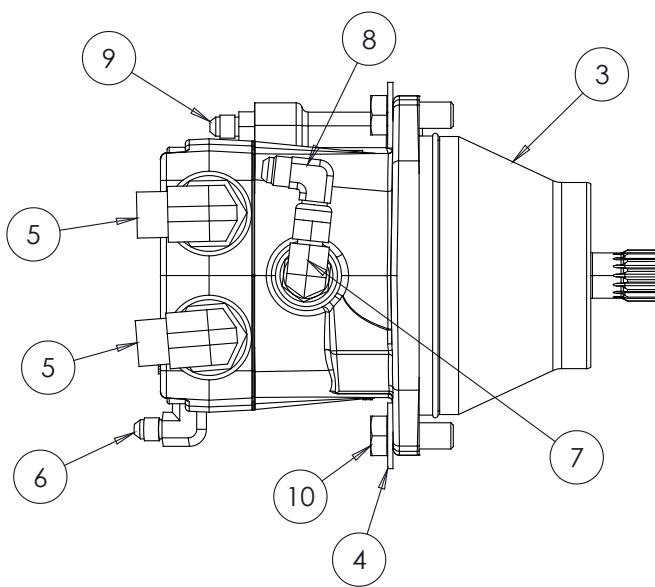


0260262

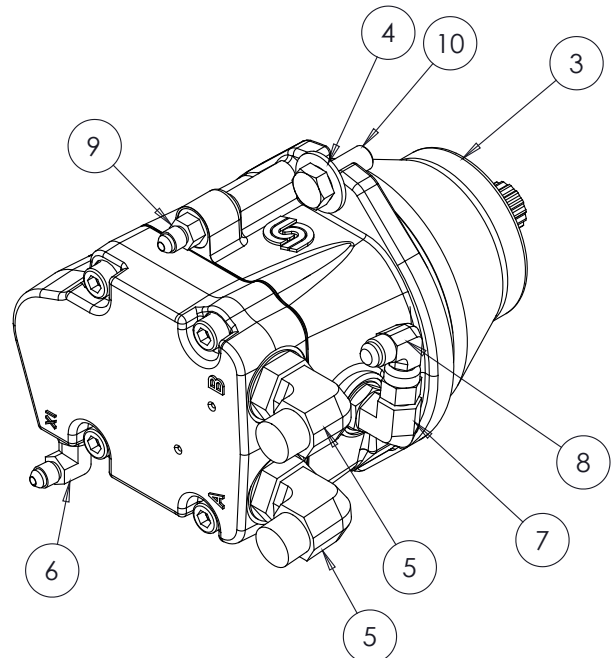
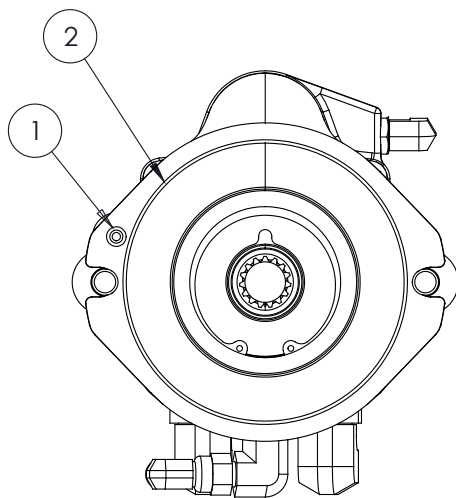
Front Drive Motor Assembly

Rear Drive Motor Assembly

| Item | Part No. | Qty. | Description |
|------|--------------|------|-----------------------------------------|
| 1 | 0260070 | 1 | O-RING 1/4 ID 3/8 OD |
| 2 | 0260099 | 1 | O-RING 0.103 X 4.737 |
| 3 | 116325-000-3 | 1 | DRIVE MOTOR |
| 4 | 986359 | 2 | WASHER, FLAT .500 |
| 5 | 5033017 | 2 | ADAPTER 90 DEG ELBOW -12 SAE TO -10 JIC |
| 6 | 5035318 | 1 | FTG ELB 90 STRTHD -6B-4S STL |
| 7 | 5035320 | 1 | FTG ELB 90 STRTHD -8B-6S STL |
| 8 | 5037005 | 1 | ADAPTER 90 DEG EBLW SWIVEL -6 JIC |
| 9 | 5065703 | 1 | ADAPTER STRAIGHT -4 SAE TO -4 JIC |
| 10 | 5563017 | 2 | BOLT, HEXHD .500-13 X 1.25 GR8 |



Note: Do not misplace Item 1. Components will leak if Item 1 is not in place.

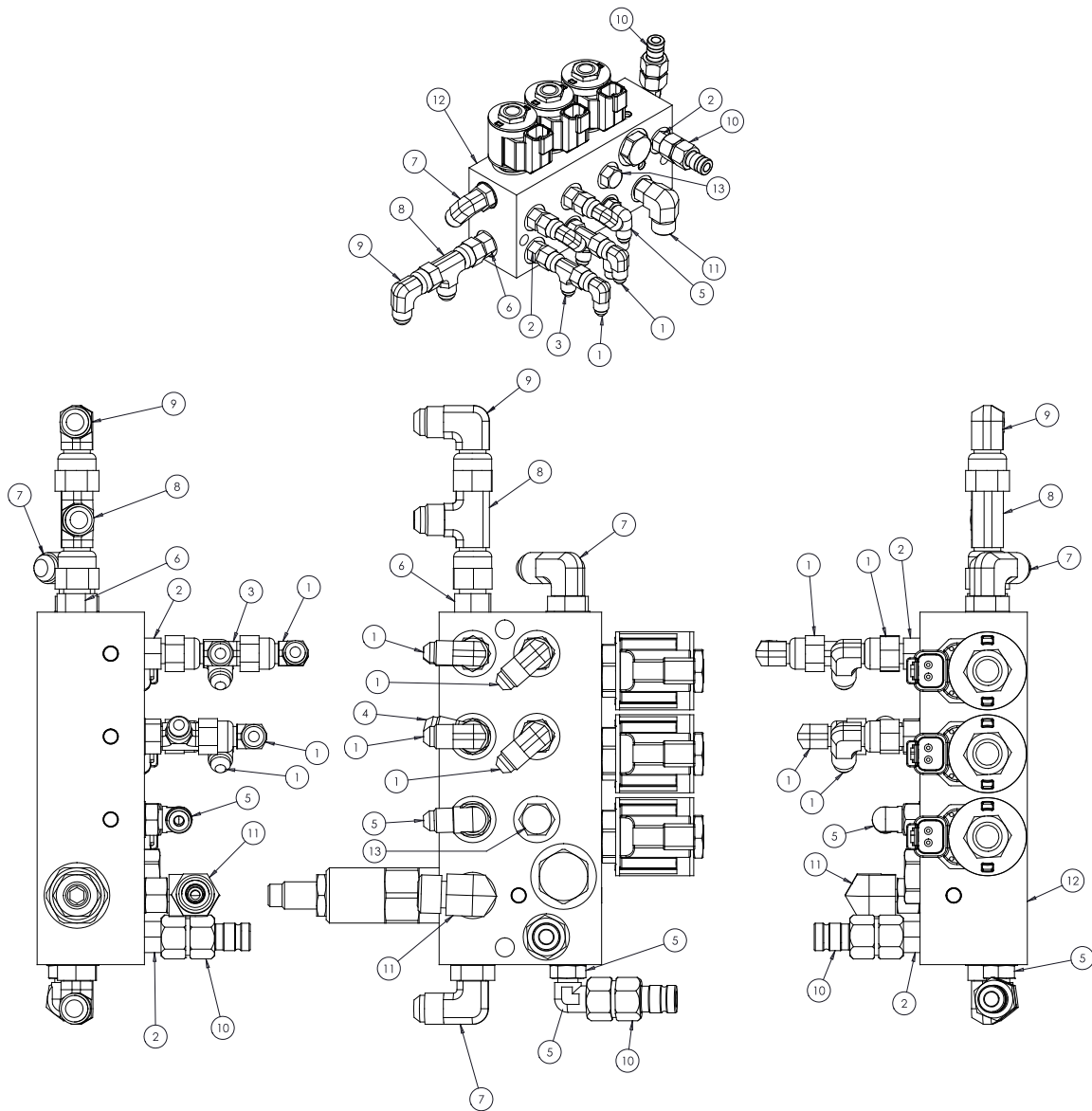


0260263

Rear Drive Motor Assembly

Brake Release Valve

| Item | Part No. | Qty. | Description |
|------|----------|------|-------------------------------|
| 1 | 5037003 | 4 | FTG ELB90SWVL-4S-4S STL |
| 2 | 5065703 | 4 | FTG ADPTR STRTHD-4B-4S STL |
| 3 | 5036703 | 1 | FTG TEE SWVL RUN-4S-4S STL |
| 4 | 5036103 | 1 | FTG TEE STRTHD RUN-4B-4S STL |
| 5 | 5035303 | 2 | FTG ELB90STRTHD-4B-4S STL |
| 6 | 5065734 | 1 | FTG ADPTR STRTHD-4B-6S STL-PH |
| 7 | 5035321 | 2 | FTG ELB90STRTHD-4B-6S STL |
| 8 | 5036705 | 1 | FTG TEE SWVL RUN-6S-6S STL |
| 9 | 5037005 | 1 | FTG ELB90SWVL-6S-6S STL- |
| 10 | 5070005 | 2 | FTG NIP DIGN-4S FEM |
| 11 | 5033016 | 1 | FTG ELB -6F-4B STL |
| 12 | 0260045 | 1 | VALVE ASS'Y, DRIVE, RT |
| 13 | 5074406 | 1 | FTG LKNT BHD-12 STL |
| 140 | 972069 | 2.00 | BLT HEXHD M8-1.25 60MM |
| 150 | 5560727 | 2.00 | NUT HEX LKG M8-1.25 |

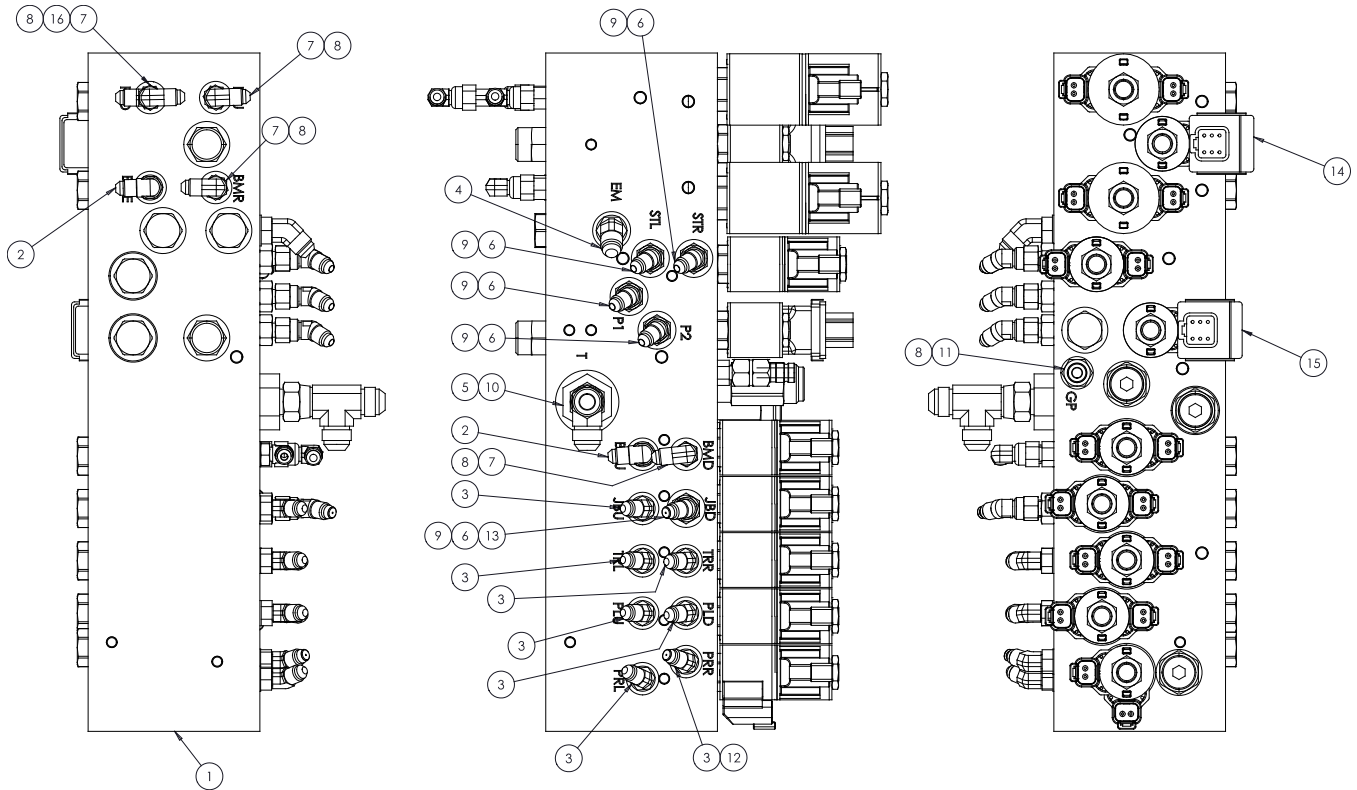


0260218

Brake Release Valve

Boom Function Control Valve Assembly

| Item | Part No. | Qty. | Description |
|------|------------|------|-----------------------------------------------------------------|
| 1 | 116344-000 | 1 | DUAL PROPORTIONAL CONTROL VALVE ASSY (REFER TO HYDRAULICS – 19) |
| 2 | 5035303 | 2 | FTG ELB90STRTHD-4B-4S STL |
| 3 | 5035703 | 7 | FTG ELB45STRTHD-4B-4S STL |
| 4 | 5035705 | 1 | FTG ELB45STRTHD-6B-6S STL-PH 6 |
| 5 | 5036706 | 1 | FTG TEE SWVL RUN-8S-8S STL |
| 6 | 5036903 | 5 | FTG ELB45SWVL-4S-4S STL |
| 7 | 5037003 | 4 | FTG ELB90SWVL-4S-4S STL |
| 8 | 5065703 | 5 | FTG ADPTR STRTHD-4B-4S STL |
| 9 | 5065705 | 5 | FTG ADPTR STRTHD-6B-4S STL |
| 10 | 5065711 | 1 | FTG ADPTR STRTHD-12B-8S STL |
| 11 | 5070005 | 1 | FTG NIP DIGN-4S FEM |
| 12 | 0150604 | 1 | ORIFICE .029 |
| 13 | 0151918 | 1 | ORIFICE .035 |
| 14 | 8080201 | 1 | DRIVER MOD, EVDR1, PROGRAMED |
| 15 | 8080203 | 1 | DRIVER MOD, EVDR1, PROGRAMED |
| 16 | 5036703 | 1 | FTG TEE TEE SWVL RUN-4-4F JIC |

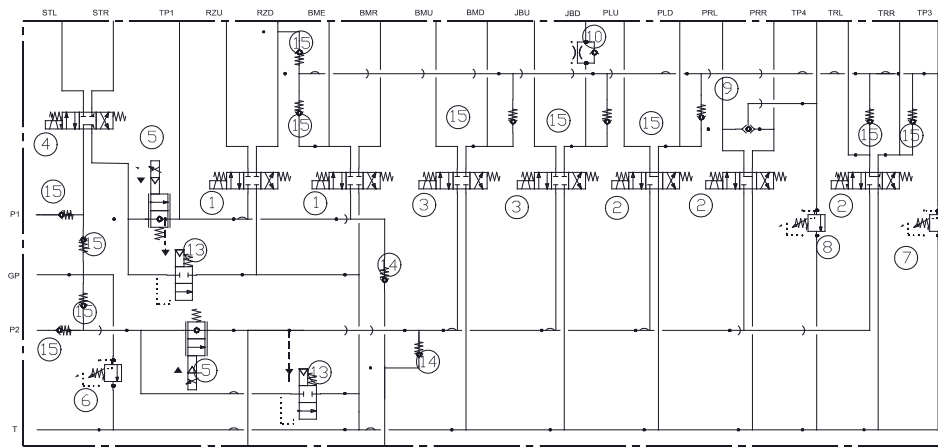
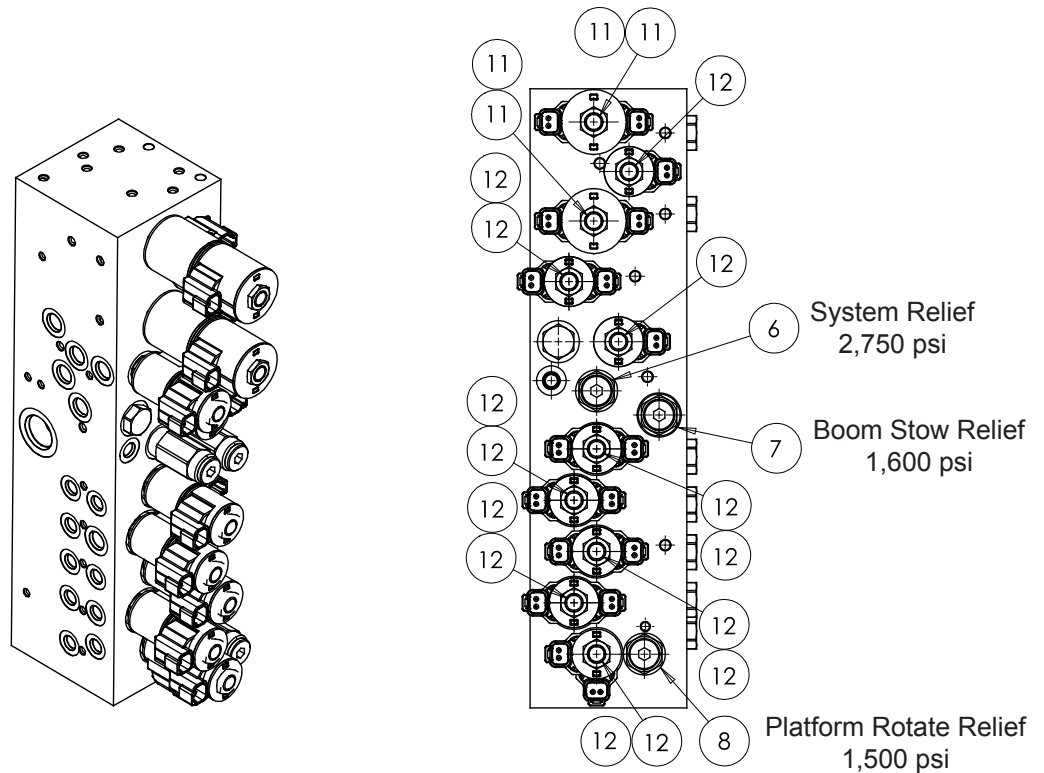


0260219

Boom Function Control Valve Assembly

Dual Propotional Control Valve

| Item | Part No. | Qty. | Description |
|------|----------|------|-------------------------------|
| 1 | 6019098 | 2 | VALVE, SOL CART 3-POS 4WAY CC |
| 2 | 6018940 | 3 | SOL VALVE |
| 3 | 6018952 | 2 | SOLENOID VALVE |
| 4 | 6019075 | 1 | SOLENOID VALVE |
| 5 | 6019173 | 2 | ELECTRO-PROPORTIONAL VALVE |
| 6 | 6019174 | 1 | RELIEF VALVE |
| 7 | 6019175 | 1 | RELIEF VALVE |
| 8 | 6019175 | 1 | RELIEF VALVE |
| 9 | 6010737 | 1 | SHUTTLE VALVE |
| 10 | 6019177 | 1 | ORIFICE PLATE |
| 11 | 6019179 | 4 | COIL |
| 12 | 6019180 | 14 | COIL |
| 13 | 6019181 | 2 | LOGIC ELEMENT VALVE, PILOTED |
| 14 | 6019182 | 2 | CHECK VALVE |
| 15 | 561176 | 11 | VALVE CART CHECK |

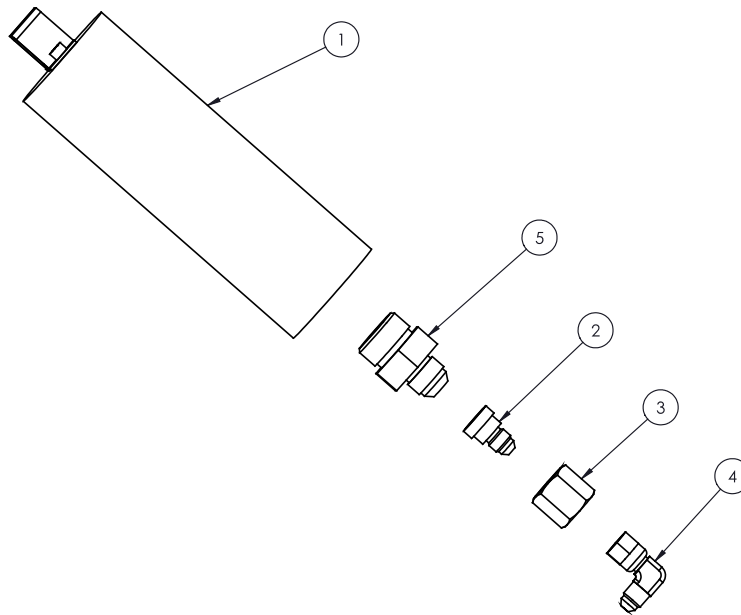


116344-000

Dual Propotional Control Valve

Accumulator Assembly

| Item | Part No. | Qty. | Description |
|------|----------|------|-----------------------------|
| 1 | 6070006 | 1 | ACCUMULATOR |
| 2 | 5064002 | 1 | FTG RDCR-8S-4S W/O NUT STL |
| 3 | 5063906 | 1 | FTG NUT-8S STL |
| 4 | 5037003 | 1 | FTG ELB90SWVL-4S-4S STL |
| 5 | 5065711 | 1 | FTG ADPTR STRTHD-12B-8S STL |

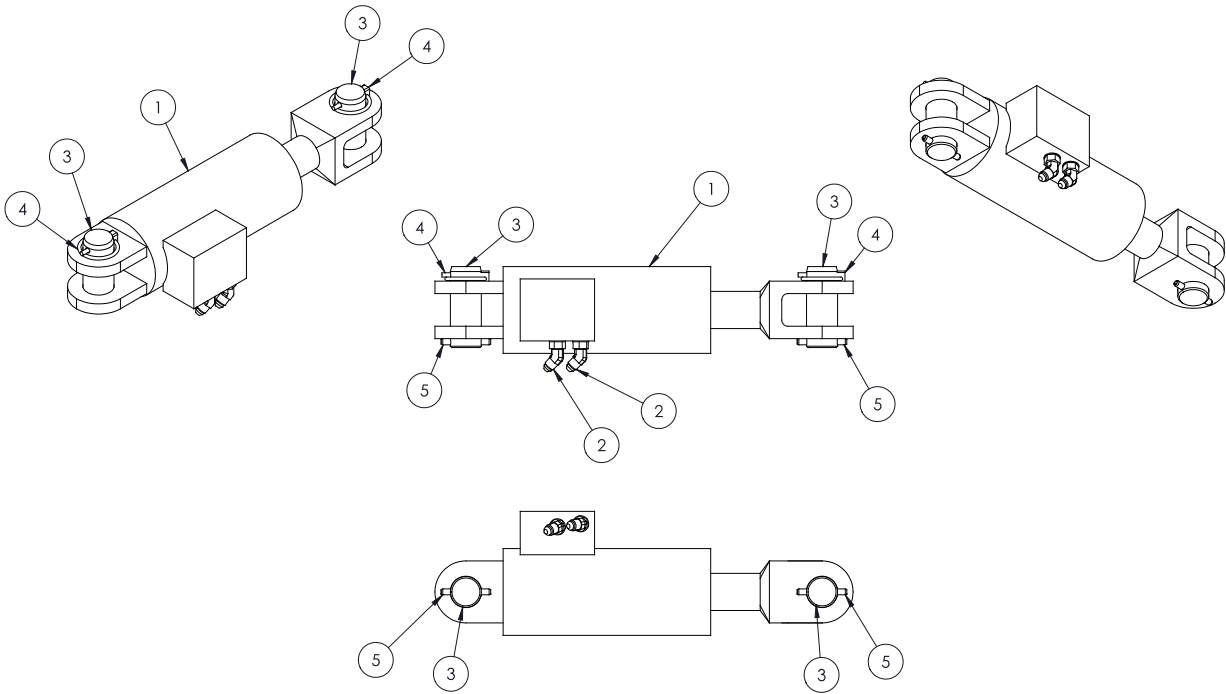


0260475

Accumulator Assembly

Axle Cylinder, Right – Hydratech

| Item | Part No. | Qty. | Description |
|------|--------------|------|-------------------------------|
| | 0260290 | 1 | AXLE CYLINDER ASSEMBLY, RIGHT |
| | 0260308 | 1 | SEAL KIT |
| 1 | 116377-000-3 | 1 | CYLINDER, AXLE RT HYDRATECH |
| 2 | 5035703 | 2 | FTG ELB 45 STRTHD-4B-4S STL |
| 3 | 068906-000 | 2 | PIN, CYLINDER |
| 4 | 068898-002 | 2 | PIN, LYNCH #HANG-2 |
| 5 | 011737-016 | 2 | ROLL PIN 1/4 X 2 |

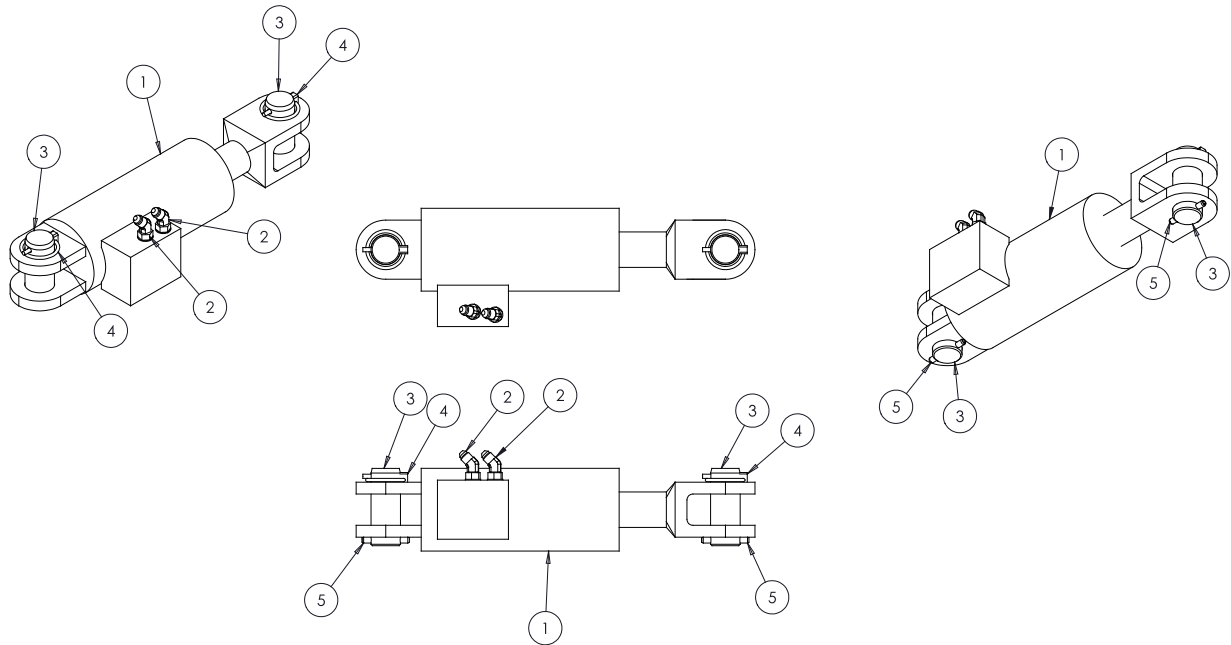


0260290

Axle Cylinder, Right – Hydratech

Axle Cylinder, Left – Hydratech

| Item | Part No. | Qty. | Description |
|------|--------------|------|------------------------------|
| | 0260282 | 1 | AXLE CYLINDER ASSEMBLY, LEFT |
| | 0260308 | 1 | SEAL KIT |
| 1 | 116377-000-3 | 1 | CYLINDER, AXLE RT |
| 2 | 5035703 | 2 | FTG ELB 45 STRTHD-4B-4S STL |
| 3 | 068906-000 | 2 | PIN, CYLINDER |
| 4 | 068898-002 | 2 | PIN, LYNCH #HANG-2 |
| 5 | 011737-016 | 2 | ROLL PIN 1/4 X 2 |

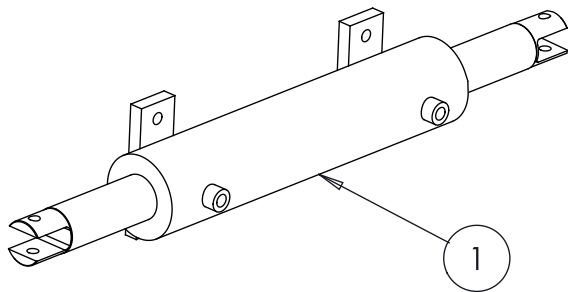


0260282

Axle Cylinder, Left – Hydratech

Steer Cylinder – Hydratech

| Item | Part No. | Qty. | Description |
|------|--------------|------|-----------------|
| 1 | 068456-001-3 | 1 | CYLINDER, STEER |
| | 0260304 | 1 | SEAL KIT |

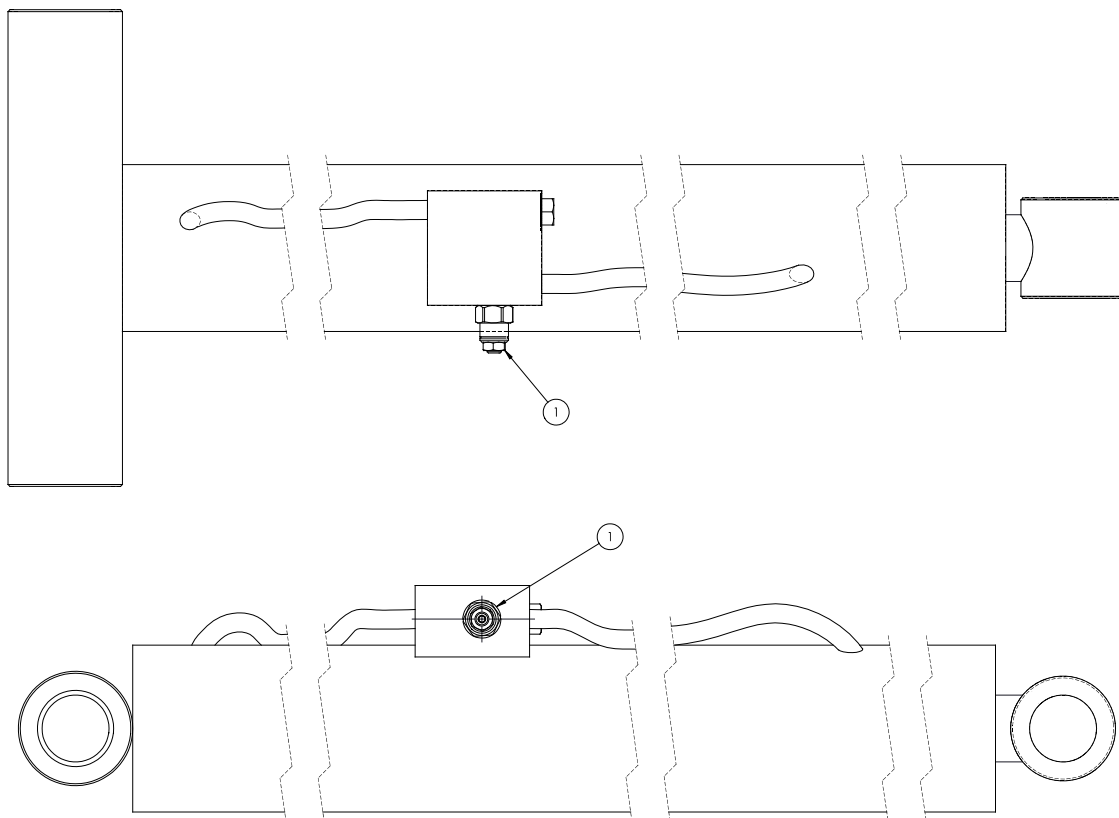


068456-001-3

Steer Cylinder – Hydratech

Riser Boom Cylinder – Hydratech

| Item | Part No. | Qty. | Description |
|------|--------------|------|------------------------------|
| 1 | 116370-000-3 | 1 | CYLINDER, RISER BOOM |
| | 0260311 | 1 | SEAL KIT |
| | 6019167 | 1 | COUNTERBALANCE HOLDING VALVE |

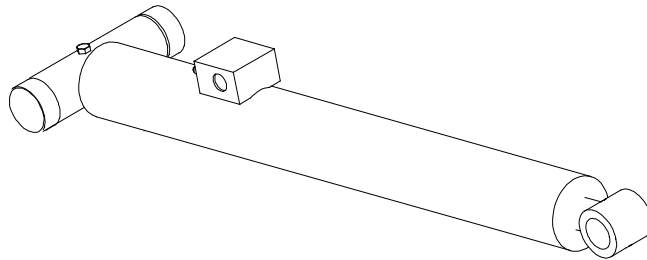


116370-000-3

Riser Boom Cylinder – Hydratech

Main Boom Lift Cylinder – Hydratech

| Item | Part No. | Qty. | Description |
|------|--------------|------|--------------------------|
| | 116371-000-3 | 1 | CYLINDER, MAIN BOOM LIFT |
| | 0260306 | 1 | SEAL KIT |

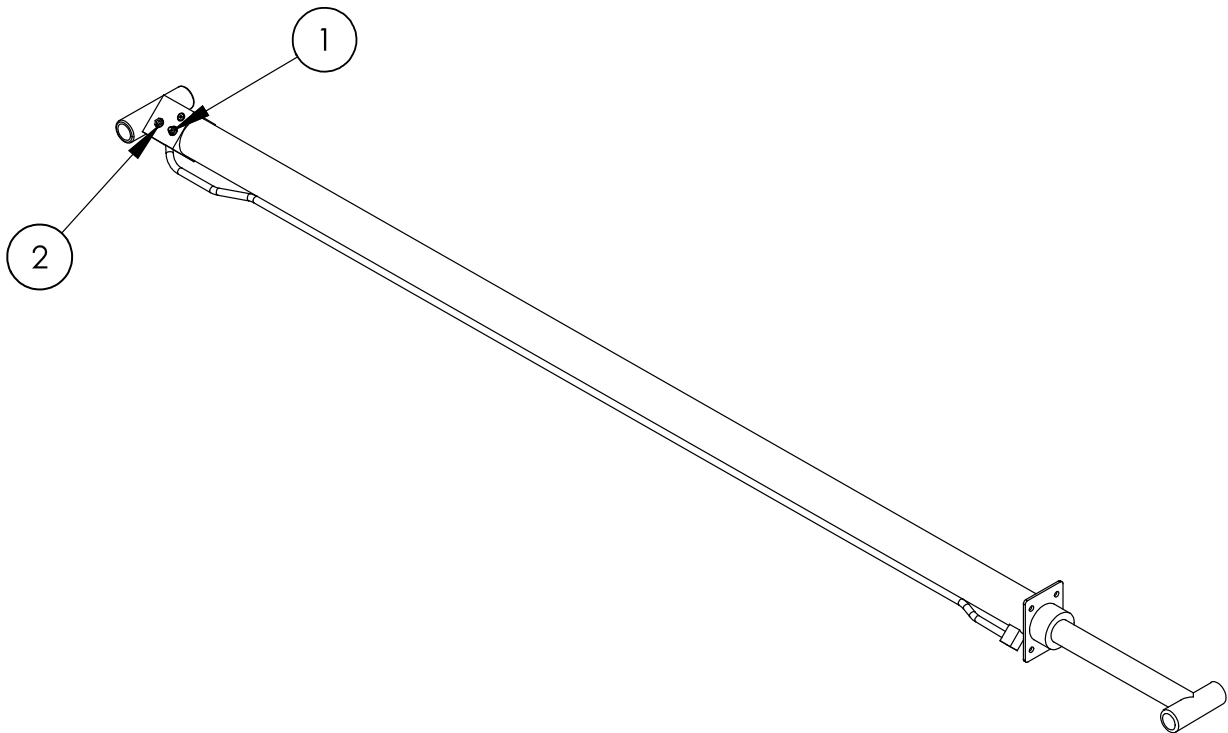


116371-000-3

Main Boom Lift Cylinder – Hydratech

Main Boom Extend Cylinder – Hydratech

| Item | Part No. | Qty. | Description |
|------|--------------|------|------------------------------|
| | 116372-000-3 | 1 | CYLINDER, MAIN BOOM EXTEND |
| | 0260309 | 1 | SEAL KIT |
| 1 | 0260517 | 1 | COUNTERBALANCE HOLDING VALVE |
| 2 | 0260518 | 1 | SHUTTLE VALVE |

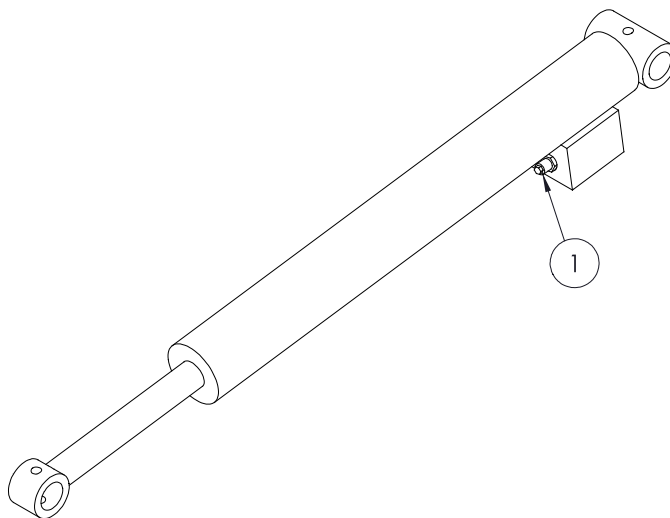


116372-000-3

Main Boom Extend Cylinder – Hydratech

Jib Cylinder – Hydratech

| Item | Part No. | Qty. | Description |
|------|--------------|------|------------------------------|
| 1 | 116373-000-3 | 1 | CYLINDER, JIB |
| | 0260305 | 1 | SEAL KIT |
| | 0260516 | 1 | COUNTERBALANCE HOLDING VALVE |

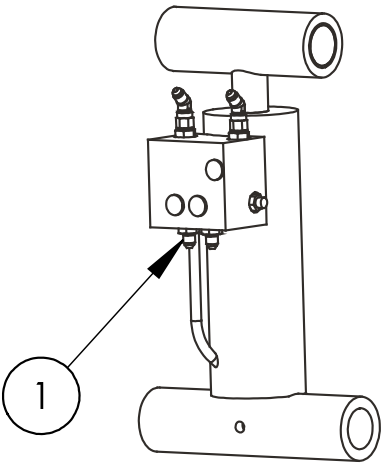


116373-000-3

Jib Cylinder – Hydratech

Master Level Cylinder – Hydratech

| Item | Part No. | Qty. | Description |
|------|--------------|------|------------------------------|
| 1 | 116374-000-3 | 1 | CYLINDER, MASTER LEVEL |
| | 0260307 | 1 | SEAL KIT |
| | 6018978 | 2 | COUNTERBALANCE HOLDING VALVE |

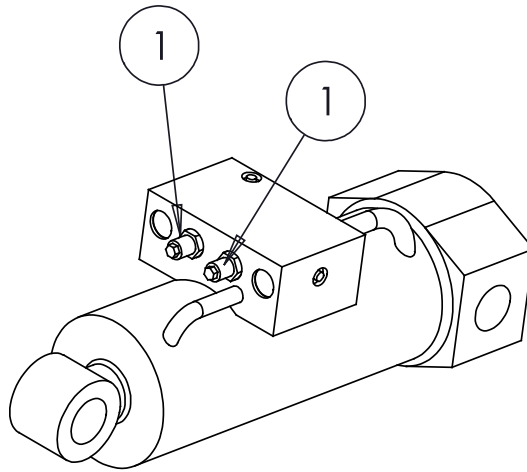


116374-000-3

Master Level Cylinder – Hydratech

Slave Level Cylinder – Hydratech

| Item | Part No. | Qty. | Description |
|------|--------------|------|------------------------------|
| 1 | 116375-000-3 | 1 | CYLINDER, SLAVE LEVEL |
| | 0260310 | 1 | SEAL KIT |
| | 6018978 | 2 | COUNTERBALANCE HOLDING VALVE |

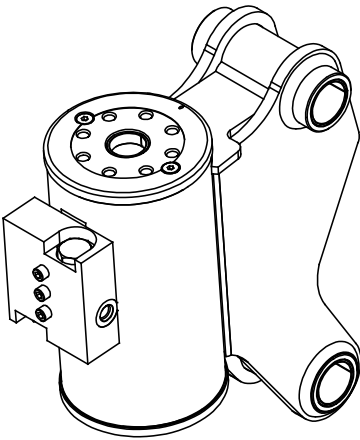


116375-000-3

Slave Level Cylinder – Hydratech

Platform Rotator Assembly

| Item | Part No. | Qty. | Description |
|------|--------------|------|---------------------------|
| 1 | 116320-000-2 | 1 | PLATFORM ROTATOR ASSEMBLY |

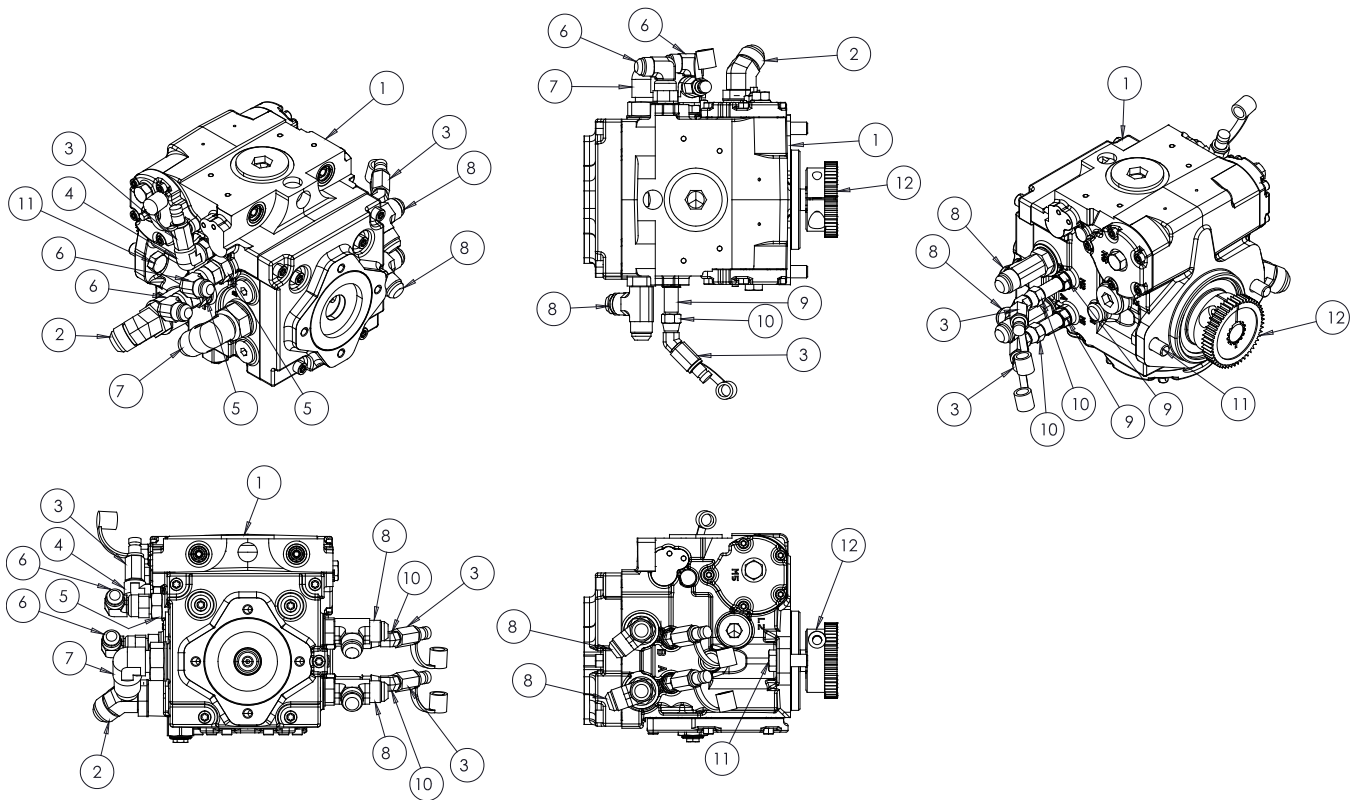


116320-000-2

Platform Rotator Assembly

Hydrostatic Drive Pump Assembly

| Item | Part No. | Qty. | Description |
|------|--------------|------|-------------------------------------|
| | 0260420 | 1 | HYDROSTATIC DRIVE PUMP ASSEMBLY |
| 1 | 104553-000-3 | 1 | HYDROSTATIC DRIVE |
| 2 | 5035708 | 1 | FTG ELB 45 STRTHD -12B -12S STL |
| 3 | 5070010 | 3 | FTG NIP DIGN -6S FEM |
| 4 | 5035305 | 1 | FTG ELB 90 STRTHD -6B -6S |
| 5 | 5065710 | 2 | FTG ADPTR STRTHD -10B -8S STL |
| 6 | 5037006 | 2 | ADAPTER 90 DEG ELBOW SWIVEL -8 JIC |
| 7 | 5035308 | 1 | FTG ELB90STRTHD -4B -4S STL |
| 8 | 5033021 | 2 | ADAPTER TEE -10 SAE -10 JIC -10 JIC |
| 9 | 5065805 | 2 | FTG ADPTR STRTHD -LG-6B-6S STL |
| 10 | 5036905 | 2 | FTG ELB 45 SWVL -6S-6S STL |
| 11 | 5563017 | 2 | BOLT, HEXHD .500-13 X 1.25 GR8 |
| 12 | 0260182 | 1 | COUPLING |

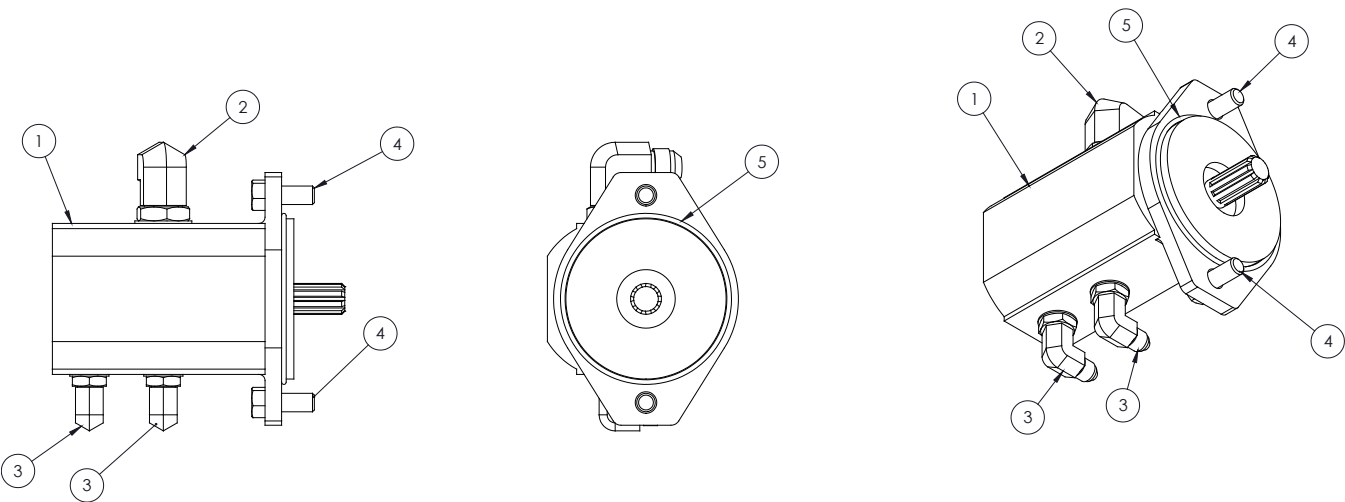


0260420

Hydrostatic Drive Pump Assembly

Boom Pump Assembly

| Item | Part No. | Qty. | Description |
|------|----------|------|------------------------------|
| | 0260256 | | PUMP ASSEMBLY |
| 1 | 0260508 | 1 | PUMP |
| 2 | 5035316 | 1 | FTG ELB 90STRTHD -10B-8S STL |
| 3 | 5035318 | 2 | FTG ELB 90STRTHD -6B-4S STL |
| 4 | 5563045 | 2 | BOLT, HEXHD 3/8-UND X 1 |

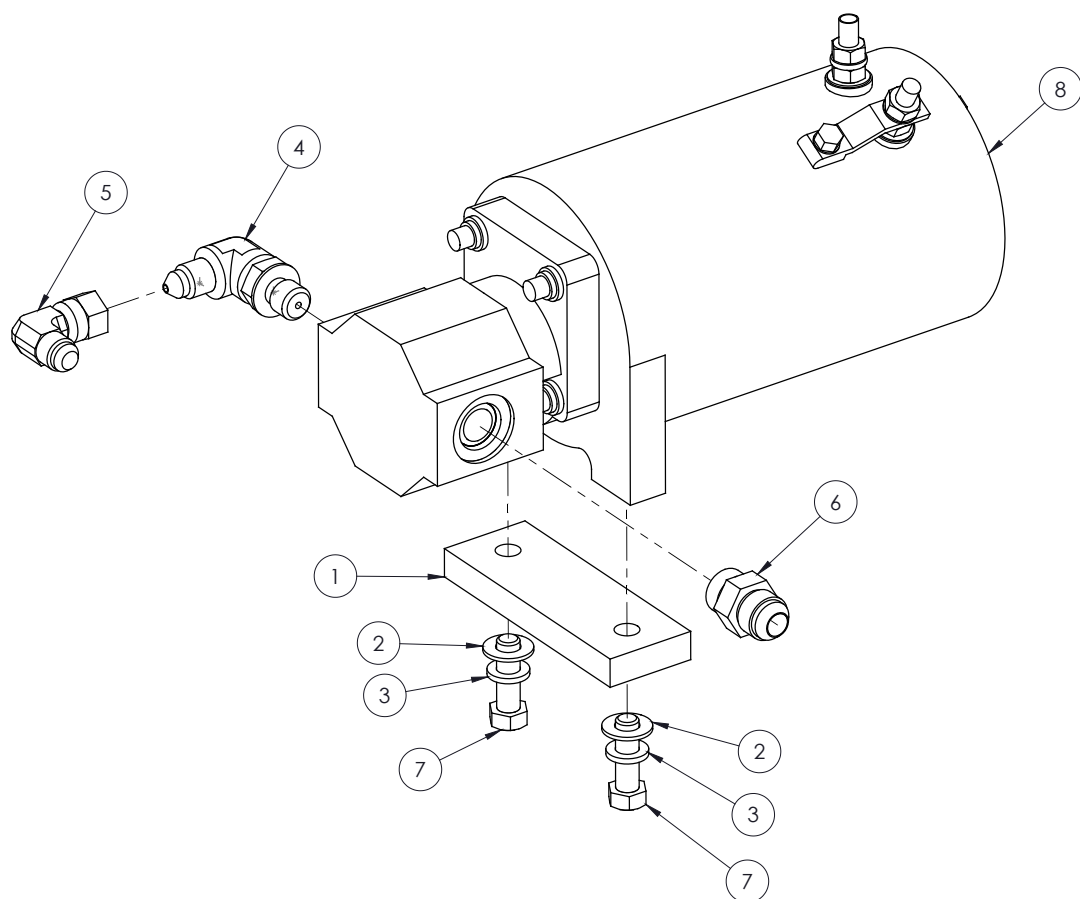


Note: To prevent hydraulic fluid leaks, do not remove this pump until the replacement pump is ready to be installed.

Boom Pump Assembly

Emergency Power Unit Assembly

| Item | Part No. | Qty. | Description |
|------|-----------|------|------------------------------------|
| 1 | 0260129-3 | 1 | EMERGENCY PUMP PLATE |
| 2 | 986299 | 2 | WASHER, FLAT .375 |
| 3 | 987119 | 2 | WASHER, LOCK .375 |
| 4 | 5035305 | 1 | FTG ELB 90 STRTHD -6B-6S |
| 5 | 5037005 | 1 | ADAPTER 90 DEG ELBOW SWIVEL -6 JIC |
| 6 | 5065709 | 1 | ADAPTER STRAIGHT -8 SAE TO -8 JIC |
| 7 | 5560704 | 2 | BOLT, HEXHD .375-16 1.25 GR8 |
| 8 | 6020058 | 1 | EMERGENCY POWER UNIT |



0260278

Emergency Power Unit Assembly

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Hydraulics – 50

Hydraulic Plumbing

A26010B

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Hydraulic Plumbing

| Item | Part No. | Qty. | Description |
|------|----------|------|-------------------------------|
| 1 | 0020273 | 1 | HOSE-6-6S-6S 35.5 100R2 |
| 2 | 0020275 | 1 | HOSE-6-6S-6S 16 100R2 |
| 3 | 0020279 | 1 | HOSE-6-6S-6S 45.75 100R2 |
| 4 | 0020280 | 3 | HOSE-4-4S-4S 23.5 |
| 5 | 0020655 | 1 | HOSE-4-4S-4S 29.5 100R1 |
| 6 | 0050137 | 2 | HOSE-4-4S-4S 36 100R1 |
| 7 | 0060305 | 1 | HOSE-6-6S-6S 60 100R2 |
| 8 | 0060315 | 2 | HOSE-8-8S-8S 48 100R2 |
| 9 | 0070768 | 6 | HOSE-4-4S-4S 18.5 100R1 |
| 10 | 0070771 | 3 | HOSE-4-4S-4S 77 100R1 |
| 11 | 0070772 | 2 | HOSE-4-4S-4S 54 100R1 |
| 12 | 0070789 | 1 | HOSE-6-6S-6S 75.5 100R2 |
| 13 | 0070791 | 1 | HOSE-8-8S-8S 20.5 100R2 |
| 14 | 0070910 | 1 | HOSE-4-4S-4S 39 100R1 |
| 15 | 0070927 | 1 | HOSE-8-8S-8S 23.5 100R2 |
| 16 | 0073040 | 1 | HOSE-8-8S-8S 28 100R2 |
| 17 | 0080522 | 1 | HOSE-8-8S-8S 42 100R2 |
| 18 | 0080930 | 2 | HOSE-12-12S45-12S 20 100R2-SP |
| 19 | 0081080 | 2 | HOSE-6-6S-6S 65 100R2 |
| 20 | 0081136 | 2 | HOSE-4-4S-4S 67 100R1 |
| 21 | 0090402 | 1 | HOSE-6-6S-6S 108 100R2 |
| 22 | 0111287 | 2 | HOSE-4-4S-4S 84 100R2 |
| 23 | 0180945 | 3 | HOSE-4-4S-4S 62 100R2 |
| 24 | 0260169 | 1 | HOSE -10-10F-10F 97.5 100R15 |
| 25 | 0260170 | 1 | HOSE -10-10F-10F 95 100R15 |
| 26 | 0260171 | 1 | HOSE -10-10F-10F 31 100R15 |
| 27 | 0260172 | 1 | HOSE -10-10F-10F 38.5 100R15 |
| 28 | 0260173 | 4 | HOSE -10-10F-12F 47 100R15 |
| 29 | 0260174 | 2 | HOSE -10-10F-10F 42.5 100R15 |
| 30 | 0260175 | 1 | HOSE -10-10F-10F 44 100R15 |
| 31 | 0260176 | 1 | HOSE -6-6F-6F 30 100R15 |
| 32 | 0260185 | 2 | HOSE -4-4S-4S 323 100R17 |
| 33 | 0260186 | 2 | HOSE -4-4S-4S 700 100R17 |
| 34 | 0260187 | 2 | HOSE -4-4S-4S 634 100R17 |
| 35 | 0260188 | 2 | HOSE -4-4S-4S 367 100R17 |
| 36 | 0260189 | 2 | HOSE -4-4S-4S 282 100R17 |
| 37 | 0260190 | 2 | HOSE -4-4S-4S 330 100R17 |
| 38 | 0260191 | 2 | HOSE -4-4S-4S 195 100R17 |

A26010B

Hydraulic Plumbing

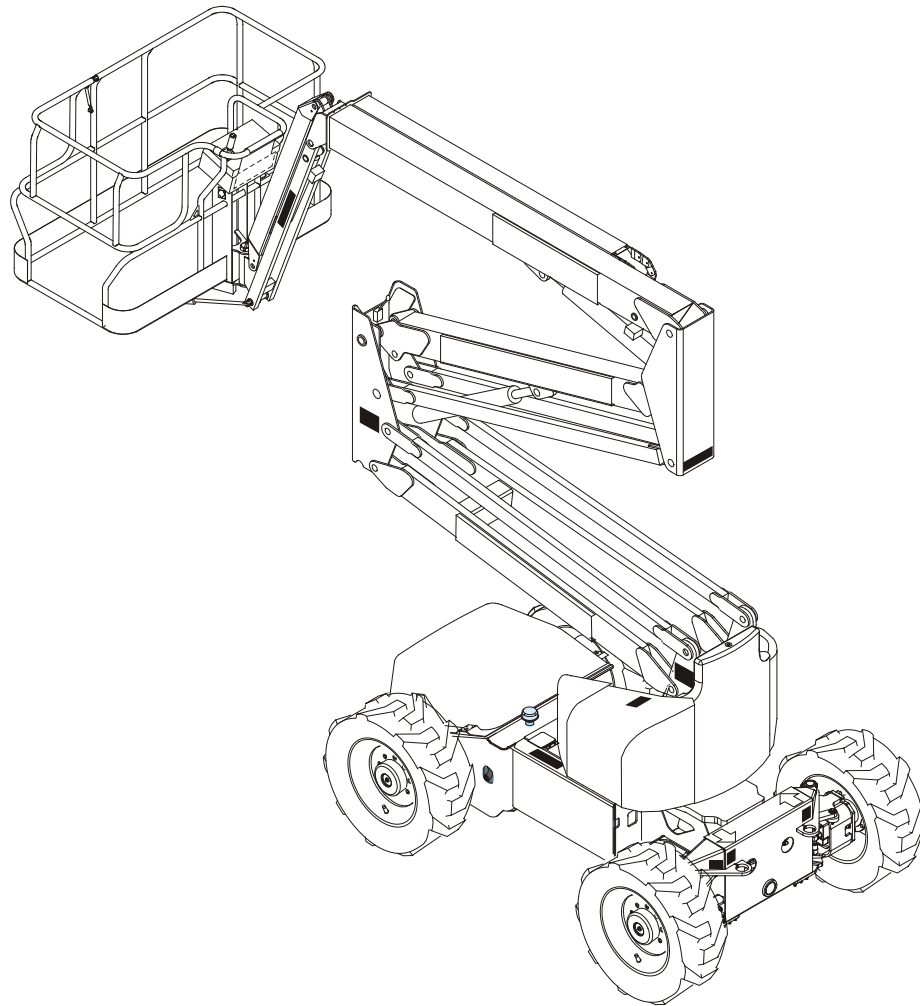
Hydraulic Hose Kit

| Item | Part No. | Qty. | Description |
|------|----------|---------|--------------------------------------|
| 1 | 0020273 | 1 | HOSE-6-6S-6S 35.5 100R2 |
| 2 | 0020275 | 1 | HOSE-6-6S-6S 16 100R2 |
| 3 | 0020279 | 1 | HOSE-6-6S-6S 45.75 100R2 |
| 4 | 0020280 | 3 | HOSE-4-4S-4S 23.5 |
| 5 | 0020655 | 1 | HOSE-4-4S-4S 29.5 100R1 |
| 6 | 0050137 | 2 | HOSE-4-4S-4S 36 100R1 |
| 7 | 0060305 | 1 | HOSE-6-6S-6S 60 100R2 |
| 8 | 0060315 | 2 | HOSE-8-8S-8S 48 100R2 |
| 9 | 0070768 | 6 | HOSE-4-4S-4S 18.5 100R1 |
| 10 | 0070771 | 3 | HOSE-4-4S-4S 77 100R1 |
| 11 | 0070772 | 2 | HOSE-4-4S-4S 54 100R1 |
| 12 | 0070789 | 1 | HOSE-6-6S-6S 75.5 100R2 |
| 13 | 0070791 | 1 | HOSE-8-8S-8S 20.5 100R2 |
| 14 | 0070910 | 1 | HOSE-4-4S-4S 39 100R1 |
| 15 | 0070927 | 1 | HOSE-8-8S-8S 23.5 100R2 |
| 16 | 0073040 | 1 | HOSE-8-8S-8S 28 100R2 |
| 17 | 0080522 | 1 | HOSE-8-8S-8S 42 100R2 |
| 18 | 0080930 | 2 | HOSE-12-12S45-12S 20 100R2-SP |
| 19 | 0081080 | 2 | HOSE-6-6S-6S 65 100R2 |
| 20 | 0081136 | 2 | HOSE-4-4S-4S 67 100R1 |
| 21 | 0090402 | 1 | HOSE-6-6S-6S 108 100R2 |
| 22 | 0111287 | 2 | HOSE-4-4S-4S 84 100R2 |
| 23 | 0180945 | 3 | HOSE-4-4S-4S 62 100R2 |
| 24 | 0260169 | 1 | HOSE -10-10F-10F 97.5 100R15 |
| 25 | 0260170 | 1 | HOSE -10-10F-10F 95 100R15 |
| 26 | 0260171 | 1 | HOSE -10-10F-10F 31 100R15 |
| 27 | 0260172 | 1 | HOSE -10-10F-10F 38.5 100R15 |
| 28 | 0260173 | 4 | HOSE -10-10F-12F 47 100R15 |
| 29 | 0260174 | 2 | HOSE -10-10F-10F 42.5 100R15 |
| 30 | 0260175 | 1 | HOSE -10-10F-10F 44 100R15 |
| 31 | 0260176 | 1 | HOSE -6-6F-6F 30 100R15 |
| 32 | 0260185 | 2 | HOSE -4-4S-4S 323 100R17 |
| 33 | 0260186 | 2 | HOSE -4-4S-4S 700 100R17 |
| 34 | 0260187 | 2 | HOSE -4-4S-4S 634 100R17 |
| 35 | 0260188 | 2 | HOSE -4-4S-4S 367 100R17 |
| 36 | 0260189 | 2 | HOSE -4-4S-4S 282 100R17 |
| 37 | 0260190 | 2 | HOSE -4-4S-4S 330 100R17 |
| 38 | 0260191 | 2 | HOSE -4-4S-4S 195 100R17 |
| 39 | 0260377 | 2 | HOSE -4 -4S90 -4S 11.5 100R17 |
| 40 | 5010011 | 3 | HOSE SAE30R2-05 .312 FUEL |
| 41 | 5090048 | 12 | HOSE GUARD-16- |
| 42 | 5560277 | 13.5 IN | GROMET EDGE COVER (SOLD BY THE FOOT) |
| 43 | 967359 | 66 | HOSE, SAE30R2-03 TYPE 3 3/16" ID |

0260443

Hydraulic Hose Kit

Electrical

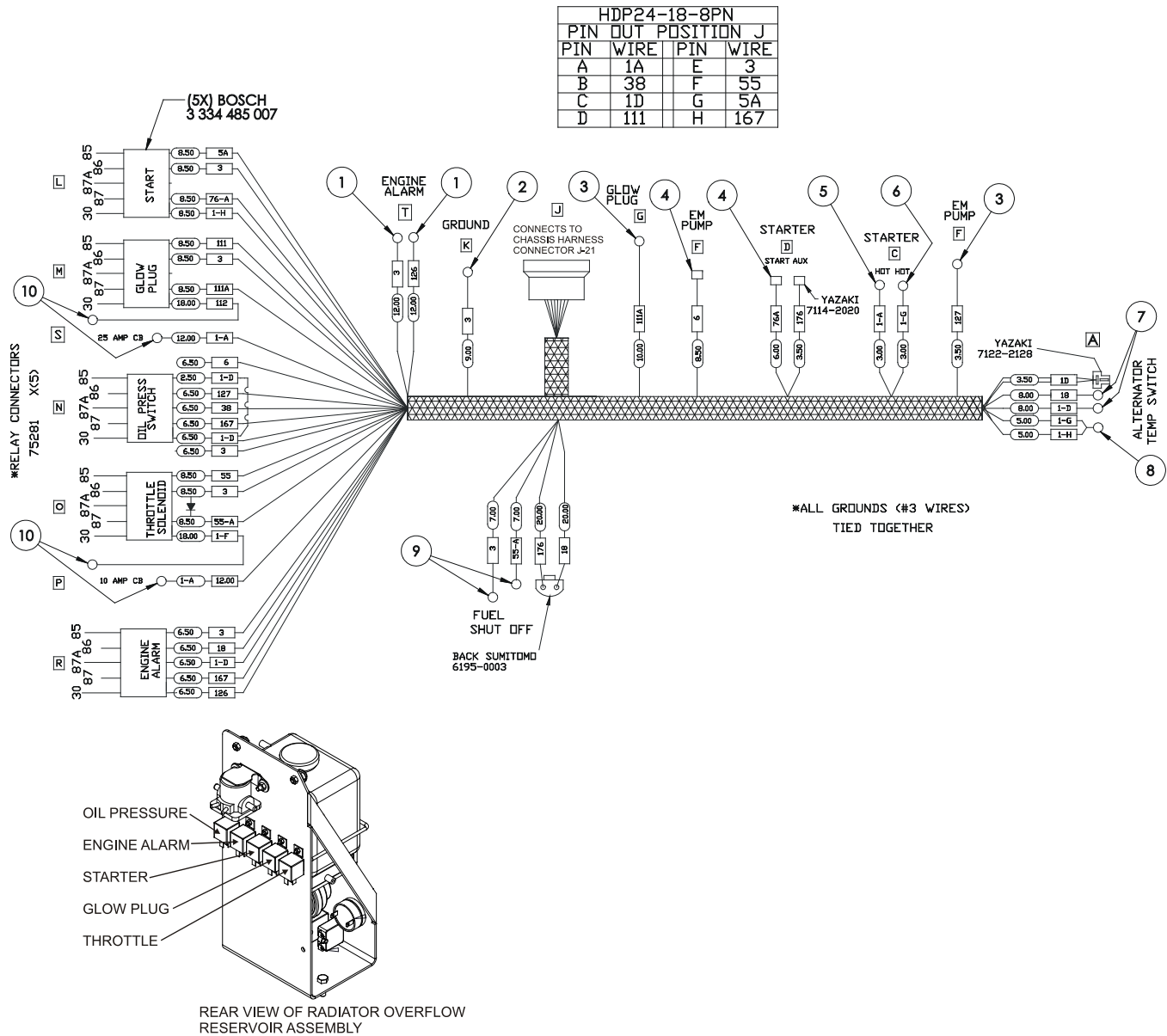


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UpRight

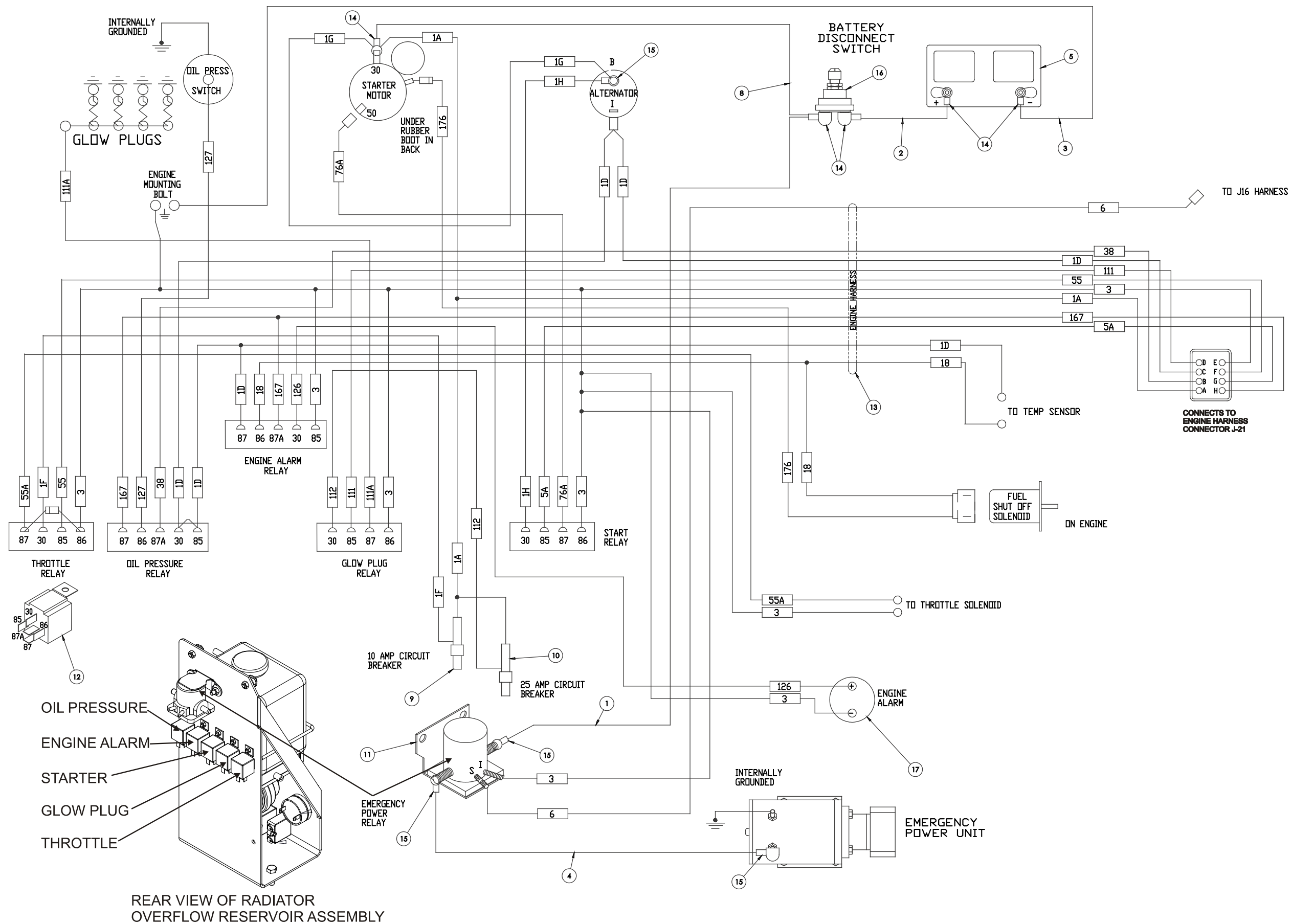
Engine Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|--------------------------|
| 1 | 3044158 | 2 | R61 16/14 TERMINAL |
| 2 | 3044836 | 1 | R37512/10 TERMINAL |
| 3 | 3044854 | 2 | R101 12/10 TERMINAL |
| 4 | 3040083 | 2 | 250FI 16-14 FEM TERMINAL |
| 5 | 3044163 | 1 | R3121 16/14 TERMINAL |
| 6 | 3044856 | 1 | R3121 12/10 TERMINAL |
| 7 | 3044160 | 2 | R81 16/14 TERMINAL |
| 8 | 3042041 | 1 | 250I 8 TERMINAL |
| 9 | 3044853 | 2 | R81 12/10 TERMINAL |
| 10 | 3044161 | 4 | R101 16/14 TERMINAL |



0260049

Engine Harness



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Electrical – 6

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Chassis Harness

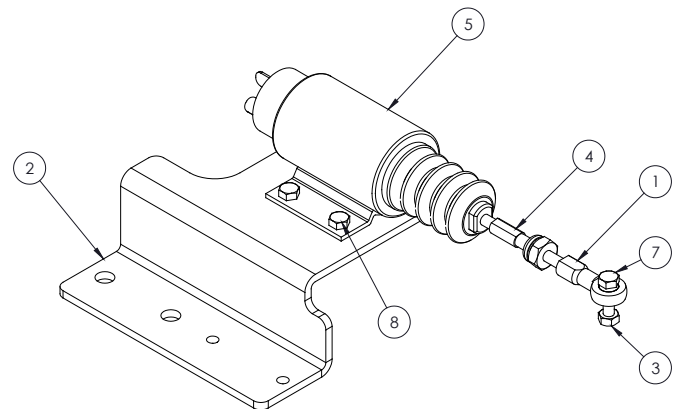
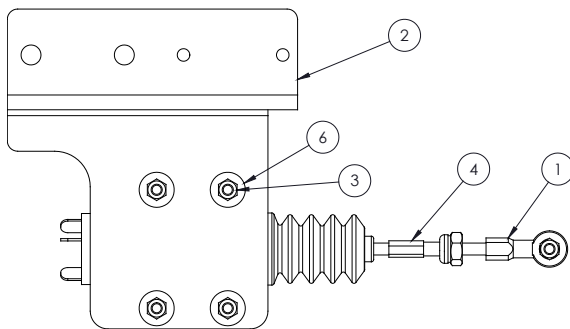
| Item | Part No. | Qty. | Description |
|------|----------|------|------------------------------------------|
| 1 | 0090430 | 1 | WIRE 4 R313I R375I 15 |
| 2 | 0162244 | 1 | WIRE 2 R312 R375 20 RED |
| 3 | 0080483 | 1 | WIRE 2/0 R375 R375 28 BLACK |
| 4 | 0072323 | 1 | WIRE 4 R313I R375I 28 RED |
| 5 | 3050002 | 1 | BATTERY 12V |
| 8 | 0101566 | 1 | WIRE 2/0 R375 R375 56 RED |
| 9 | 3040252 | 1 | CIRCUIT BREAKER 15 AMP |
| 10 | 3040069 | 1 | CIRCUIT BREAKER 25 AMP |
| 11 | 3040506 | 1 | SOLENOID, 12V 150 |
| 12 | 3040469 | 5 | RELAY SPDT 12V 30 AMP |
| 13 | 0260049 | 1 | ENGINE HARNESS (REFER TO ELECTRICAL – 3) |
| 14 | 3040269 | 5 | BOOT BATTERY CABLE END BLK 1/0 |
| 15 | 3040268 | 4 | BOOT BATTERY CABLE END BLK |
| 16 | 3020061 | 1 | BATTERY DISCONNECT SWITCH |
| 17 | 3040411 | 1 | ALARM MINI SIREN 6-28VDC-MURPH |

A26004B

Chassis Harness

Throttle Solenoid Assembly

| Item | Part No. | Qty. | Description |
|------|--------------|------|---------------------------|
| 1 | 011760-004 | 1 | ROD END |
| 2 | 116055-000-3 | 1 | MOUNTING BRACKET |
| 3 | 984169 | 5 | NUT, HEX LKG M6-1.0 |
| 4 | 2650001 | 1 | SWIVEL, IN LINE |
| 5 | 3040174 | 1 | SOLENOID |
| 6 | 5560629 | 4 | WASHER, FLAT M6 |
| 7 | 5569985 | 5 | BOLT, HEXHD M6-1.0 X 20MM |

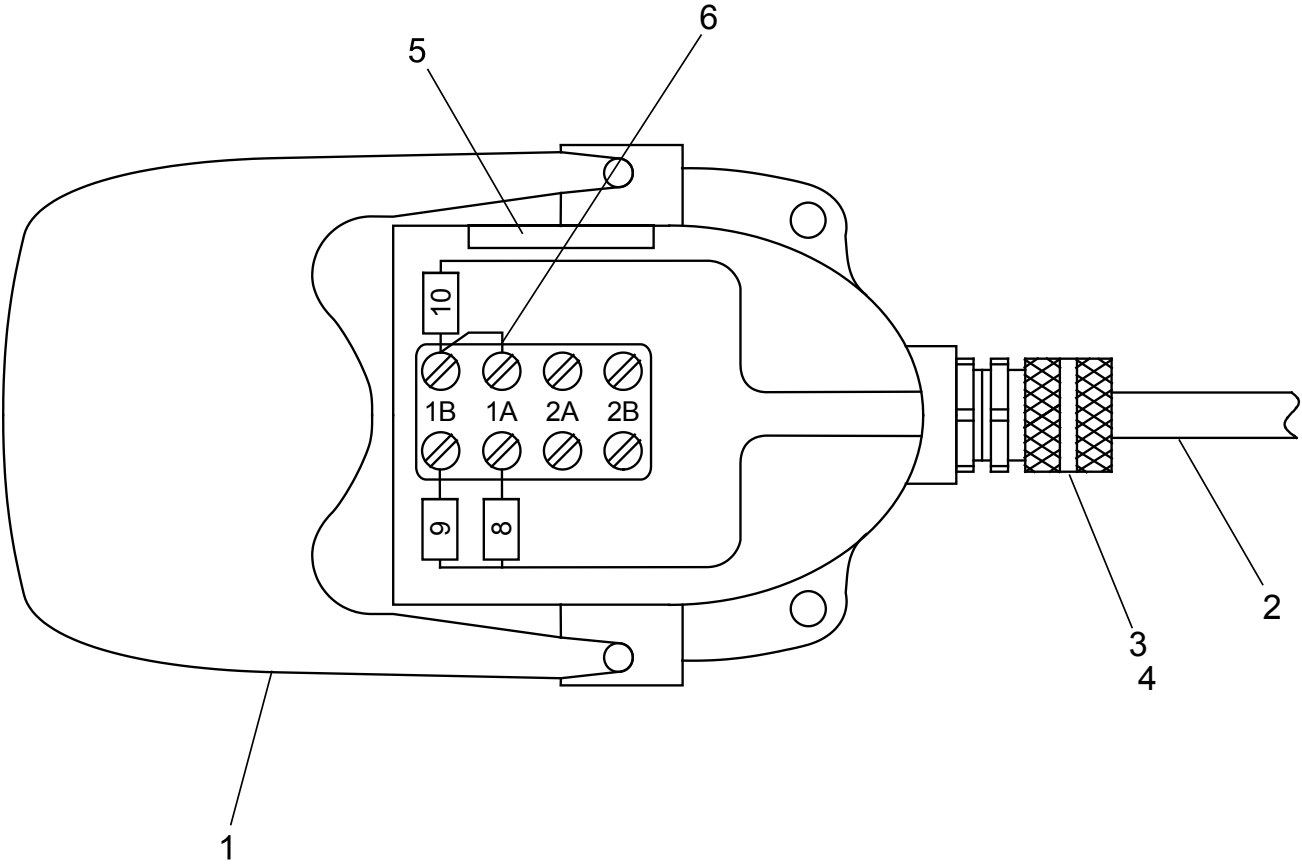


0260257

Throttle Solenoid Assembly

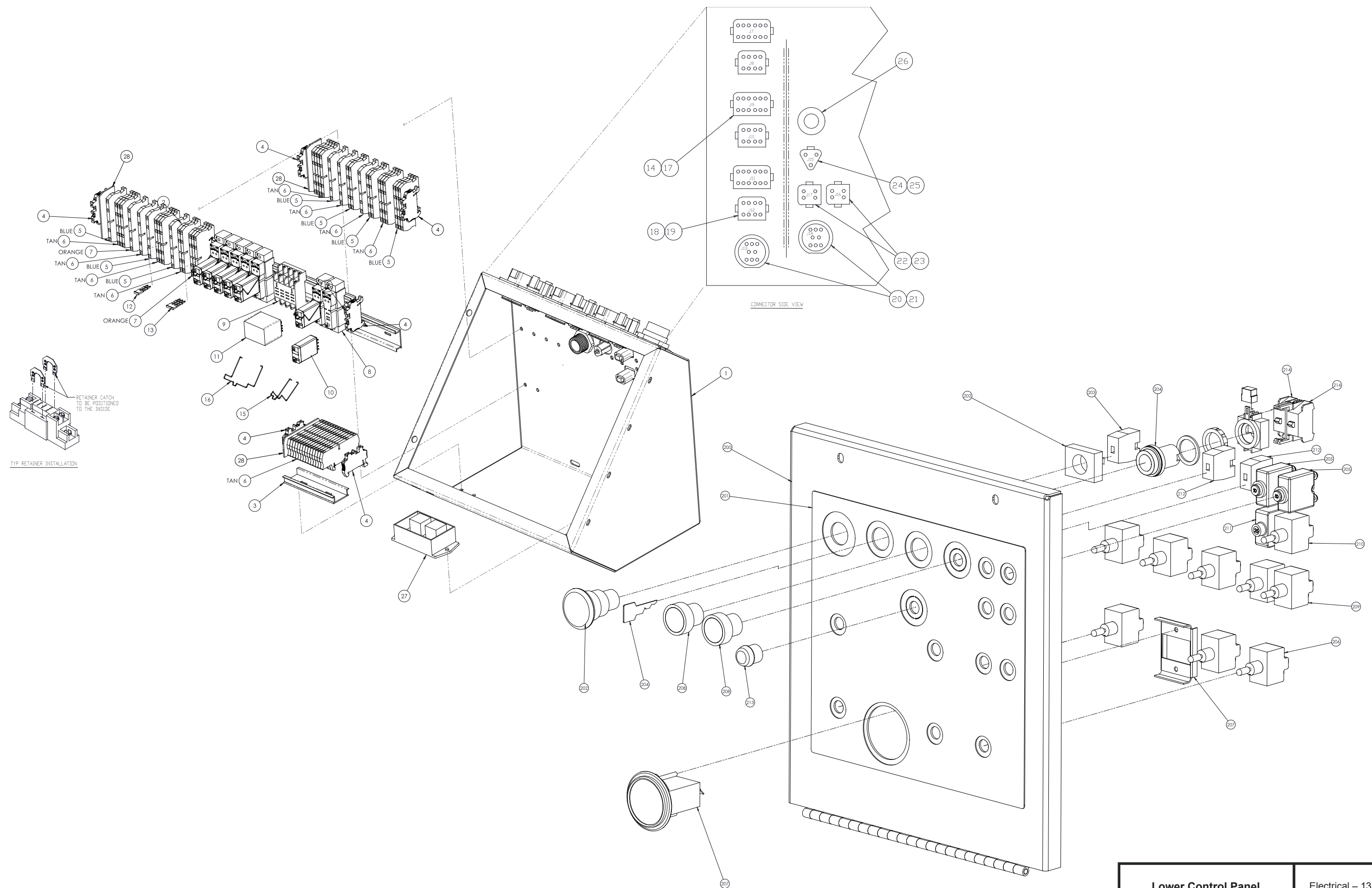
Platform Foot Switch

| Item | Part No. | Qty. | Description |
|------|----------|------|---------------------------------------------------------------|
| 1 | 3020021 | 1 | FOOT SWITCH |
| | 3020037 | 1 | REPLACEMENT SWITCH, SQUARE D SWITCH, 4 POLE – NOT SHOWN |
| | 3020113 | 1 | REPLACEMENT SWITCH , SQUARE D SWITCH, 8 POLE |
| 2 | 0260047 | 1 | WIRE HARNESS, PLATFORM FOOT SWITCH (REFER TO ELECTRICAL – 61) |
| 3 | 3040116 | 1 | CONNECTOR |
| 4 | 3040110 | 1 | CONNECTOR LOCKNUT |
| 5 | 0070967 | 1 | CORROSION INHIBITOR |
| 6 | 0060373 | 1 | JUMPER STRAP - (USED ON SQUARE D SWITCH ONLY) |



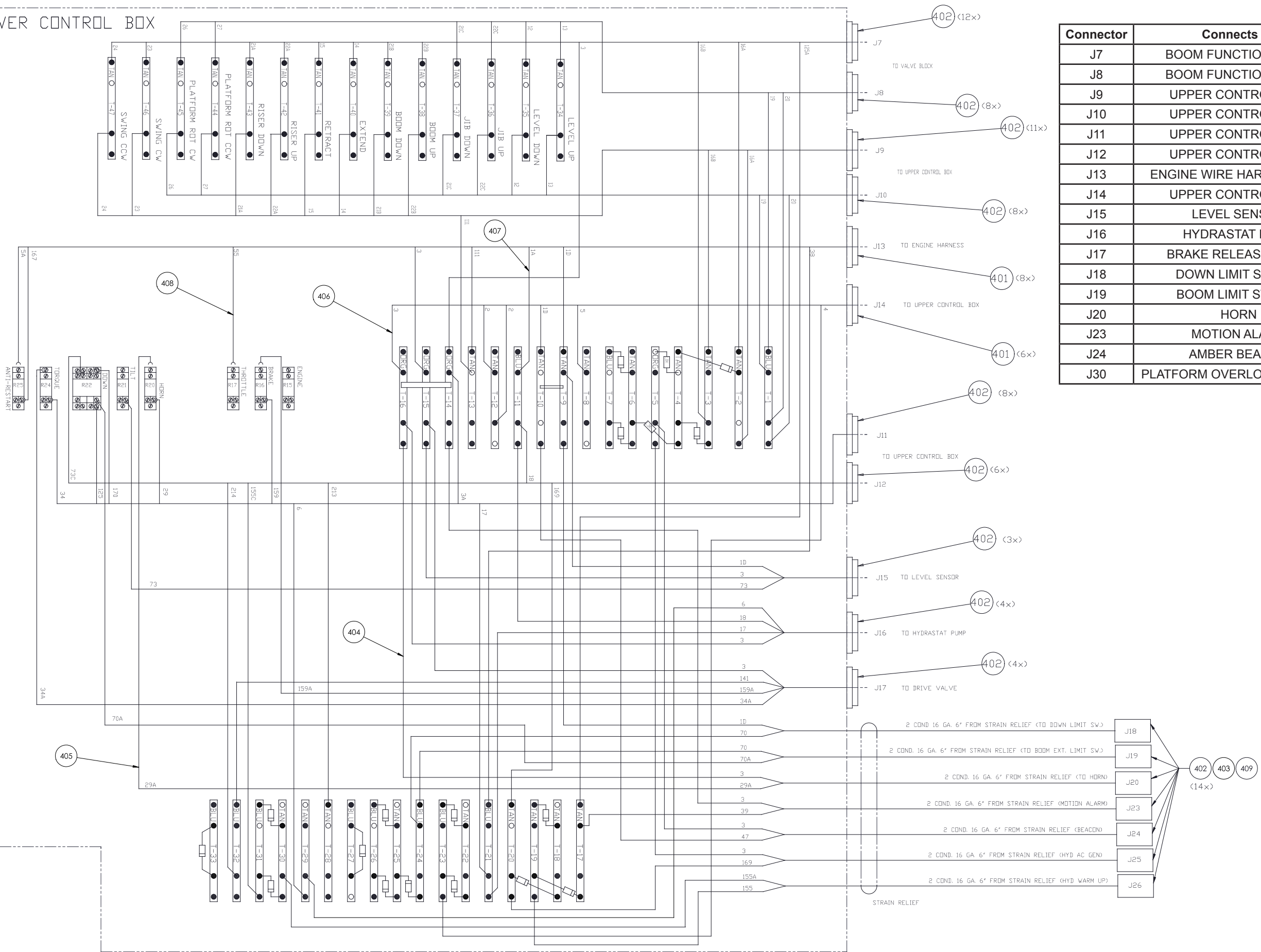
AW0071800

Platform Foot Switch



F
E
D
C
B
A

LOWER CONTROL BOX



| Connector | Connects To | Part # | Page # |
|-----------|---------------------------|---------|-----------------|
| J7 | BOOM FUNCTION VALVE | 0260028 | Electrical – 35 |
| J8 | BOOM FUNCTION VALVE | 0260028 | Electrical – 35 |
| J9 | UPPER CONTROLS - J1 | 0260029 | Electrical – 37 |
| J10 | UPPER CONTROLS - J2 | 0260029 | Electrical – 37 |
| J11 | UPPER CONTROLS - J3 | 0260032 | Electrical – 43 |
| J12 | UPPER CONTROLS - J4 | 0260032 | Electrical – 43 |
| J13 | ENGINE WIRE HARNESS - J21 | 0260030 | Electrical – 39 |
| J14 | UPPER CONTROLS - J5 | 0260031 | Electrical – 41 |
| J15 | LEVEL SENSOR | 0260033 | Electrical – 45 |
| J16 | HYDRASTAT PUMP | 0260034 | Electrical – 47 |
| J17 | BRAKE RELEASE VALVE | 0260035 | Electrical – 49 |
| J18 | DOWN LIMIT SWITCH | 0260036 | Electrical – 51 |
| J19 | BOOM LIMIT SWITCH | 0260038 | Electrical – 55 |
| J20 | HORN | 0260037 | Electrical – 53 |
| J23 | MOTION ALARM | 0260484 | Electrical – 57 |
| J24 | AMBER BEACON | 0260429 | Electrical – 59 |
| J30 | PLATFORM OVERLOAD MODULE | 0260210 | Electrical – 63 |

F

PIN OUTS FOR CONN J7

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|-----------------------------|---------|----------|-------|
| 1 | 125A | FOOTSWITCH POWER | 18 | ITEM 402 | WHITE |
| 2 | 24 | SWING CW | 18 | ITEM 402 | WHITE |
| 3 | 23 | SWING CCW | 18 | ITEM 402 | WHITE |
| 4 | 22B | MAIN BOOM UP | 18 | ITEM 402 | WHITE |
| 5 | 21B | MAIN BOOM DOWN | 18 | ITEM 402 | WHITE |
| 6 | 14 | EXTEND | 18 | ITEM 402 | WHITE |
| 7 | 15 | RETRACT | 18 | ITEM 402 | WHITE |
| 8 | 16A | LOW FLOW PROPORTIONAL COIL | 18 | ITEM 402 | WHITE |
| 9 | 16B | HIGH FLOW PROPORTIONAL COIL | 18 | ITEM 402 | WHITE |
| 10 | 22A | RISER UP | 18 | ITEM 402 | WHITE |
| 11 | 21A | RISER DOWN | 18 | ITEM 402 | WHITE |
| 12 | 3 | GROUND | 18 | ITEM 402 | BLACK |

PIN OUTS FOR CONN J8

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|---------------------|---------|----------|-------|
| 1 | 19 | STEER LEFT | 18 | ITEM 402 | WHITE |
| 2 | 22C | JIB UP | 18 | ITEM 402 | WHITE |
| 3 | 21C | JIB DOWN | 18 | ITEM 402 | WHITE |
| 4 | 26 | PLATFORM ROTATE CW | 18 | ITEM 402 | WHITE |
| 5 | 27 | PLATFORM ROTATE CCW | 18 | ITEM 402 | WHITE |
| 6 | 13 | LEVEL UP | 18 | ITEM 402 | WHITE |
| 7 | 12 | LEVEL DOWN | 18 | ITEM 402 | WHITE |
| 8 | 20 | STEER RIGHT | 18 | ITEM 402 | WHITE |

PIN OUTS FOR CONN J9

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|-----------------------------|---------|----------|-------|
| 1 | 111 | COLD START | 18 | ITEM 402 | WHITE |
| 2 | 24 | SWING CW | 18 | ITEM 402 | WHITE |
| 3 | 23 | SWING CCW | 18 | ITEM 402 | WHITE |
| 4 | 22B | MAIN BOOM UP | 18 | ITEM 402 | WHITE |
| 5 | 21B | MAIN BOOM DOWN | 18 | ITEM 402 | WHITE |
| 6 | 14 | EXTEND | 18 | ITEM 402 | WHITE |
| 7 | 15 | RETRACT | 18 | ITEM 402 | WHITE |
| 8 | 16A | LOW FLOW PROPORTIONAL COIL | 18 | ITEM 402 | WHITE |
| 9 | 16B | HIGH FLOW PROPORTIONAL COIL | 18 | ITEM 402 | WHITE |
| 10 | 22A | RISER UP | 18 | ITEM 402 | WHITE |
| 11 | 21A | RISER DOWN | 18 | ITEM 402 | WHITE |
| 12 | NONE | PLUG | 18 | ITEM 402 | WHITE |

PIN OUTS FOR CONN J10

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|---------------------|---------|----------|-------|
| 1 | 19 | STEER LEFT | 18 | ITEM 402 | WHITE |
| 2 | 22C | JIB UP | 18 | ITEM 402 | WHITE |
| 3 | 21C | JIB DOWN | 18 | ITEM 402 | WHITE |
| 4 | 26 | PLATFORM ROTATE CW | 18 | ITEM 402 | WHITE |
| 5 | 27 | PLATFORM ROTATE CCW | 18 | ITEM 402 | WHITE |
| 6 | 13 | LEVEL UP | 18 | ITEM 402 | WHITE |
| 7 | 12 | LEVEL DOWN | 18 | ITEM 402 | WHITE |
| 8 | 20 | STEER RIGHT | 18 | ITEM 402 | WHITE |

PIN OUTS FOR CONN J11

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|--------------------|---------|----------|-------|
| 1 | - | PLUG | - | - | - |
| 2 | 6 | EMERGENCY POWER | 18 | ITEM 402 | WHITE |
| 3 | - | PLUG | - | - | - |
| 4 | 34 | HIGH TORQUE | 18 | ITEM 402 | WHITE |
| 5 | - | PLUG | - | - | - |
| 6 | 125 | HIGH THROTTLE | 18 | ITEM 402 | WHITE |
| 7 | 29 | HORN | 18 | ITEM 402 | WHITE |
| 8 | NONE | PLUG | - | - | - |
| 9 | 159 | BRAKE | 18 | ITEM 402 | WHITE |
| 10 | 3A | GROUND DRIVE COILS | 18 | ITEM 402 | WHITE |
| 11 | 170 | HI RANGE | 18 | ITEM 402 | WHITE |
| 12 | 17 | DRIVE FORWARD | 18 | ITEM 402 | WHITE |

PIN OUTS FOR CONN J12

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|------------------|---------|----------|-------|
| 1 | 18 | DRIVE REVERSE | 18 | ITEM 402 | WHITE |
| 2 | 213 | FAIL SAFE OUTPUT | 18 | ITEM 402 | WHITE |
| 3 | 73C | TILT ALARM | 18 | ITEM 402 | WHITE |
| 4 | - | PLUG | - | - | - |
| 5 | 169 | HYD GEN CONTROL | 18 | ITEM 402 | WHITE |
| 6 | 155C | HYD WARM UP | 18 | ITEM 402 | WHITE |
| 7 | - | PLUG | - | - | - |
| 8 | 214 | OVERLOAD LAMP | 18 | ITEM 402 | WHITE |

PIN OUTS FOR CONN J13

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|--------------------|---------|----------|-------|
| A | 1A | MAIN POWER | 12 | ITEM 401 | WHITE |
| B | 3B | HOOR METER | 12 | ITEM 401 | WHITE |
| C | 1D | AUX POWER | 12 | ITEM 401 | WHITE |
| D | 111 | COLD START | 12 | ITEM 401 | WHITE |
| E | 3 | GROUND | 12 | ITEM 401 | BLACK |
| F | 55 | THROTTLE SOLENOID | 12 | ITEM 401 | WHITE |
| G | 5A | START | 12 | ITEM 401 | WHITE |
| H | 167 | ANTI-RESTART RELAY | 12 | ITEM 401 | WHITE |

PIN OUTS FOR CONN J14

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|----------------|---------|----------|-------|
| A | 2 | PLATFORM POWER | 12 | ITEM 401 | WHITE |
| B | 2 | PLATFORM POWER | 12 | ITEM 401 | WHITE |
| C | 3 | GROUND | 12 | ITEM 401 | BLACK |
| D | 4 | RUN | 12 | ITEM 401 | WHITE |
| E | 5 | START SIGNAL | 12 | ITEM 401 | WHITE |
| F | 1D | AUX POWER | 12 | ITEM 401 | WHITE |
| G | - | PLUG | - | - | - |
| H | - | PLUG | - | - | - |

PIN OUTS FOR CONN J15

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|-------------------------|---------|----------|-------|
| A | 1D | POWER TO LEVEL SENSOR | 16 | ITEM 402 | WHITE |
| B | 73 | POWER FROM LEVEL SENSOR | 16 | ITEM 402 | WHITE |
| C | 3 | GROUND | 16 | ITEM 402 | BLACK |

PIN OUTS FOR CONN J16

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|------------------|---------|----------|-------|
| 1 | 18 | DRIVE REVERSE | 16 | ITEM 402 | WHITE |
| 2 | 17 | DRIVE FORWARD | 16 | ITEM 402 | WHITE |
| 3 | 3 | PUMP COIL GROUND | 16 | ITEM 402 | BLACK |
| 4 | 6 | EMERGENCY POWER | 16 | ITEM 402 | WHITE |

PIN OUTS FOR CONN J17

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|-----------------|---------|----------|-------|
| 1 | 141 | AXLE LOCK VALVE | 16 | ITEM 402 | WHITE |
| 2 | 159A | BRAKE VALVE | 16 | ITEM 402 | WHITE |
| 3 | 34A | TORQUE VALVE | 16 | ITEM 402 | WHITE |
| 4 | 3 | COIL GROUND | 16 | ITEM 402 | BLACK |

PIN OUTS FOR CONN J18

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|-----------------------------|---------|----------|-------|
| 1 | 1D | POWER TO BOOM DOWN SWITCH | 16 | ITEM 402 | WHITE |
| 2 | 70 | POWER FROM BOOM DOWN SWITCH | 16 | ITEM 402 | WHITE |

PIN OUTS FOR CONN J19

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|----------------------------|---------|----------|-------|
| 1 | 70 | POWER TO BOOM EXT SWITCH | 16 | ITEM 402 | WHITE |
| 2 | 70A | POWER FROM BOOM EXT SWITCH | 16 | ITEM 402 | WHITE |

PIN OUTS FOR CONN J20

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|-------------|---------|----------|-------|
| 1 | 29A | HORN | 16 | ITEM 402 | WHITE |
| 2 | 3 | GROUND | 16 | ITEM 402 | BLACK |

PIN OUTS FOR CONN J23

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|--------------|---------|----------|-------|
| 1 | 39 | MOTION ALARM | 16 | ITEM 402 | WHITE |
| 2 | 3 | GROUND | 16 | ITEM 402 | BLACK |

PIN OUTS FOR CONN J24

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|---------------|---------|----------|-------|
| 1 | 47 | BEACON OPTION | 16 | ITEM 402 | WHITE |
| 2 | 3 | GROUND | 16 | ITEM 402 | BLACK |

PIN OUTS FOR CONN J25

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|-----------------|---------|----------|-------|
| 1 | 169 | HYD GEN CONTROL | 16 | ITEM 402 | WHITE |
| 2 | 3 | GROUND | 16 | ITEM 402 | BLACK |

PIN OUTS FOR CONN J26

| PIN # | WIRE | DESCRIPTION | WIRE GA | TERM | COLOR |
|-------|------|----------------|---------|----------|-------|
| 1 | 155A | TEMP SWITCH | 16 | ITEM 402 | WHITE |
| 2 | 155 | WARM UP SIGNAL | 16 | ITEM 402 | WHITE |

C

B

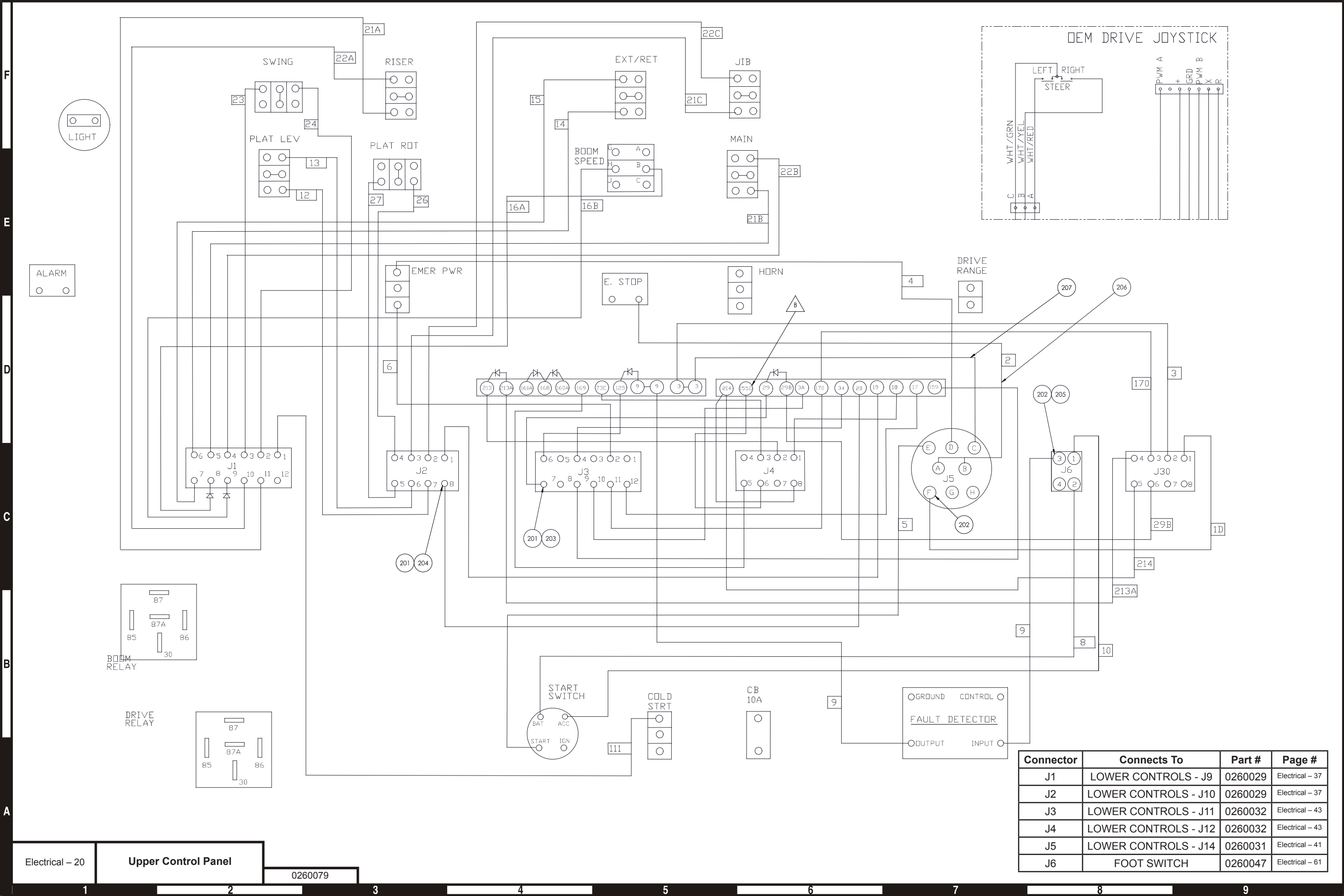
A

Lower Control Panel

| Item | Part No. | Qty. | Description |
|------|-----------|------|-----------------------------------------------------|
| 1 | 0260059 | 1 | LOWER CONTROL BOX WELDMENT |
| 2 | 67893-002 | 1 | DIN RAIL, 14" LG |
| 3 | 67893-001 | 2 | DIN RAIL, 4" LG |
| 4 | 67660-006 | 6 | END BLOCK TERMINAL |
| 5 | 68698-002 | 11 | BLOCK TERMINAL BLUE |
| 6 | 68698-001 | 32 | BLOCK TERMINAL TAN |
| 7 | 68698-000 | 4 | BLOCK TERMINAL ORANGE |
| 8 | 3220113 | 7 | REALY SOCKET, 1 POLE DIN |
| 9 | 67662-004 | 1 | RELAY SOCKET, 4 POLE DIN |
| 10 | 67661-001 | 7 | RELAY SPST 12 VOLT DC |
| 11 | 67661-004 | 1 | RELAY 48 VOLT DC, 4 POLE |
| 12 | 68773-002 | 1 | JUMPER 2 PIN |
| 13 | 68773-003 | 1 | JUMPER 3 PIN |
| 14 | 3049837 | 3 | CONNECTOR, 12-PIN BHD DEUTSCH |
| 15 | 67662-005 | 7 | 1 POLE RELAY, RETAINER CUP |
| 16 | 67662-007 | 1 | 4 POLE RELAY, RELAY CUP |
| 17 | 3049849 | 3 | LOCK WEDGE 12-PIN |
| 18 | 3049971 | 3 | CONNECTOR, DEUTSCH 8-PIN BLKHD RCPT |
| 19 | 3040700 | 3 | LOCK WEDGE 8-PIN |
| 20 | 3220088 | 2 | CONNECTOR, RND 8 PIN 12 GA RCPT |
| 21 | 3220118 | 2 | PANEL NUT, RECEPTACLE |
| 22 | 3220110 | 2 | CONNECTOR, 4-PIN 16 GA RECPT, BLACK |
| 23 | 3049891 | 2 | LOCK WEDGE, 4-PIN |
| 24 | 3220105 | 1 | CONNECTOR, 3-PIN BHD |
| 25 | 3049823 | 1 | LOCK WEDGE, 3-PIN |
| 26 | 29925-001 | 1 | CORD GRIP 3/4" |
| 27 | 3220096 | 1 | OVERLOAD FAULT DETECTION (REFER TO ELECTRICAL – 65) |
| 28 | 68698-004 | 3 | END CAP TERMINAL BLOCK |
| 200 | 0260019 | 1 | WELDMENT, CONTROL BOX LID |
| 201 | 0260198 | 1 | DECAL, LOWER CONTROL |
| 202 | 446836 | 1 | EMERGENCY STOP BUTTON |
| 203 | 446826 | 1 | SWITCH, CONTACT BLK N.C. & MOUNT |
| 204 | 3028813 | 1 | KEY SWITCH |
| 205 | 3220019 | 2 | CIRCUIT BREAKER 10 AMP |
| 206 | 3020018 | 7 | SWITCH, TOGGLE DPDT (ON/OFF/ON) |
| 207 | 3070001 | 1 | HOUR METER |
| 208 | 67654-000 | 1 | PUSH BUTTON MOMENTARY BLACK |
| 209 | 3020081 | 1 | SWITCH, TOGGLE DPDT (MOM/ON) |
| 210 | 3020080 | 2 | SWITCH, TOGGLE SPDT (OFF/ON) SEALED |
| 211 | 3040069 | 1 | CIRCUIT BREAKER 25 AMP |
| 212 | 64443-001 | 1 | SWITCH, CONTACT BLK N.C. & MOUNT |
| 213 | 3069524 | 1 | LIGHT, RED LED 12V .69 DIA MTG |
| 214 | 3028814 | 2 | CONTACT BLOCK |
| 301 | 3011641 | AR | WIRE 16GA SINGLE CONDUCTOR WHT |
| 302 | 3040293 | 17 | DIODE 3 AMP 600 V |
| 303 | 3220120 | 1 | RESISTOR 1.3K .50 WATT |
| 304 | 3011601 | AR | WIRE 16GA SINGLE CONDUCTOR BLK |
| 305 | 3220119 | 1 | RESISTOR, 1K OHM .50 WATT |
| 306 | 3011201 | AR | WIRE 12GA SINGLE CONDUCTOR RED |
| 401 | 3040650 | 14 | PIN CONTACT SIZE 12 DEUTSCH |
| 402 | 3040341 | 78 | PIN CONTACT SIZE 16 DEUTSCH |
| 403 | 3049804 | 7 | CONNECTOR, DEUTSCH RECEP 2 PIN |
| 404 | 3011601 | AR | WIRE 16GA SINGLE CONDUCTOR BLK |
| 405 | 3011641 | AR | WIRE 16GA SINGLE CONDUCTOR WHT |
| 406 | 3011251 | AR | WIRE 12GA SINGLE CONDUCTOR BLK |
| 407 | 3011201 | AR | WIRE 12GA SINGLE CONDUCTOR RED |
| 408 | 3011241 | AR | WIRE 12GA SINGLE CONDUCTOR WHT |
| 409 | 3049808 | 7 | LOCK WIRE 2 PIN DEUTSCH W2P |

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Lower Control Panel



F

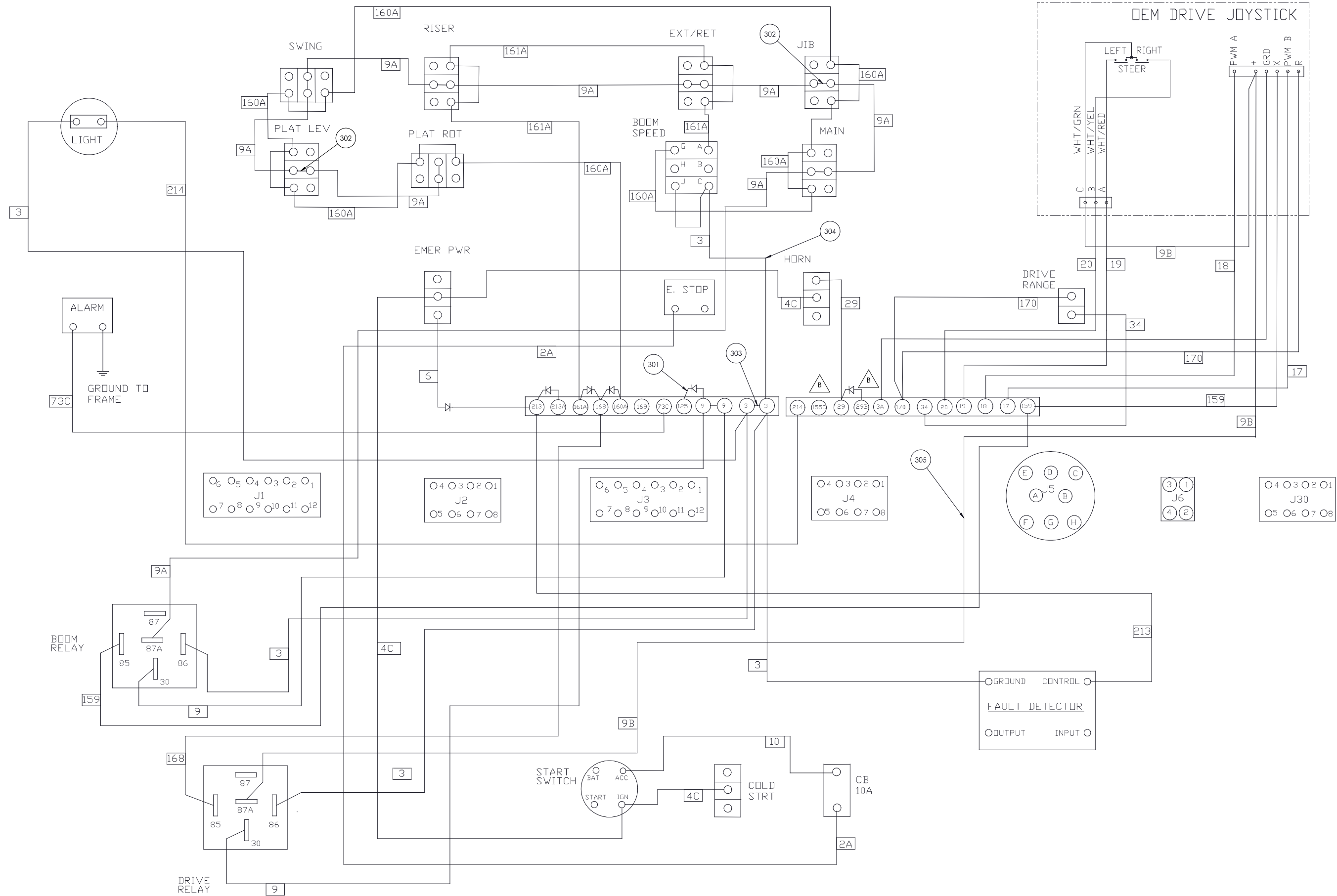
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Electrical – 22

Upper Control Panel

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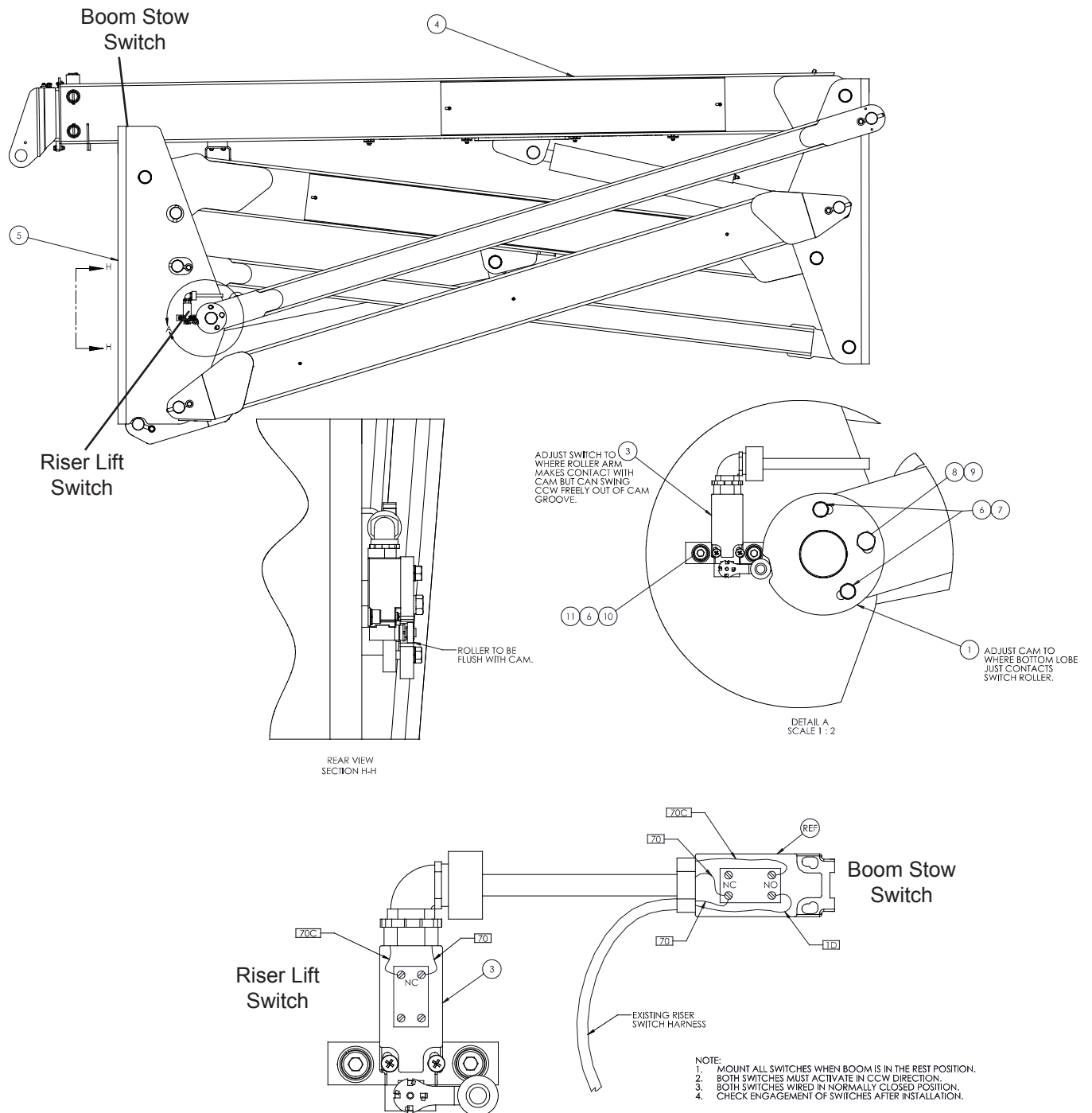
Upper Control Panel

| Item | Part No. | Qty. | Description |
|------|-----------|------|-----------------------------------------------------|
| 1 | 0260013 | 1 | PLACARD, UPPER CONTROL BOX TOP |
| 2 | 0260014 | 1 | PLACARD, FRONT PLATFORM CONTROL BOX |
| 3 | 0260216 | 1 | WELDMENT PLATFORM CONTROL BOX |
| 4 | 446826 | 1 | SWITCH, CONTACT BLK N.C. & MOUNT |
| 5 | 446836 | 1 | TWO POSITION PUSH/PULL SWITCH |
| 6 | 480652 | 1 | ALARM 97 DBA DUAL TONE 12/24 V |
| 7 | 3020013 | 1 | SWITCH, TOGGLE SPST ON OFF SEALED |
| 8 | 3020015 | 2 | SWITCH, TOGGLE SPST (ON) OFF SEALED |
| 9 | 3020018 | 7 | SWITCH, TOGGLE DPDT (ON/OFF/ON) |
| 10 | 3020080 | 1 | SWITCH, TOGGLE SPDT (ON/OFF/ON) SEALED |
| 11 | 3020090 | 1 | ANTI-RESTART IGNITION SWITCH |
| 12 | 3028811 | 1 | RESISTOR MODULE |
| 13 | 3040433 | 2 | TERMINAL STRIP .188 TAB 12 CIRCUIT |
| 14 | 3040469 | 5 | RELAY SPDT 12V 30 AMP |
| 15 | 3040777 | 1 | RHEOSTAT KNOB |
| 16 | 3049837 | 2 | CONNECTOR, 12 PIN BHD DEUTSCH |
| 17 | 3049971 | 3 | CONNECTOR, 8 PIN BLKHD RCPT DEUTSCH |
| 18 | 3069524 | 1 | LIGHT |
| 19 | 3220019 | 1 | CIRCUIT BREAKER 10 AMP |
| 20 | 3220088 | 1 | CONNECTOR, 8 PIN PND 12GA RCPT DEUTSCH |
| 21 | 3220089 | 1 | CONNECTOR, 4 PIN BLKHD |
| 22 | 3220096 | 1 | OVERLOAD FAULT DETECTION (REFER TO ELECTRICAL – 67) |
| 23 | 3220100 | 1 | CONTROLLER, SINGLE AXIS W/TOG |
| 24 | 68801-000 | 1 | WELDMENT HAND SUPPORT |
| 201 | 3040341 | 37 | PIN CONTACT SIZE 16 16/18 GA |
| 202 | 3040649 | 9 | PIN CONTACT -12 DEUTSCH |
| 203 | 3049849 | 2 | LOCK WEDGE 12-PIN DEUTSCH REC |
| 204 | 3040700 | 3 | LOCK WEDGE 8-PIN REC |
| 205 | 3220090 | 1 | LOCK WEDGE 4-PIN DEUTSCH |
| 206 | 3011241 | A/R | WIRE 12GA SINGLE CONDUCTOR WHT |
| 207 | 3011251 | A/R | WIRE 12GA SINGLE CONDUCTOR BLK |
| 301 | 0361233 | 5 | DIODE ASSEMBLY |
| 302 | 0060376 | 7 | TOGGLE SWITCH STRAP |
| 303 | 3045279 | 2 | TERMINAL STRIP STRAP |
| 304 | 3011851 | A/R | WIRE 18GA SINGLE CONDUCTOR BLK |
| 305 | 3011801 | A/R | WIRE 18GA SINGLE CONDUCTOR WHT |

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Upper Control Panel

Riser Lift Switch Configuration

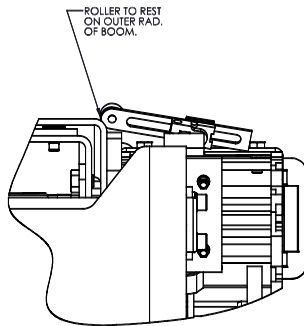
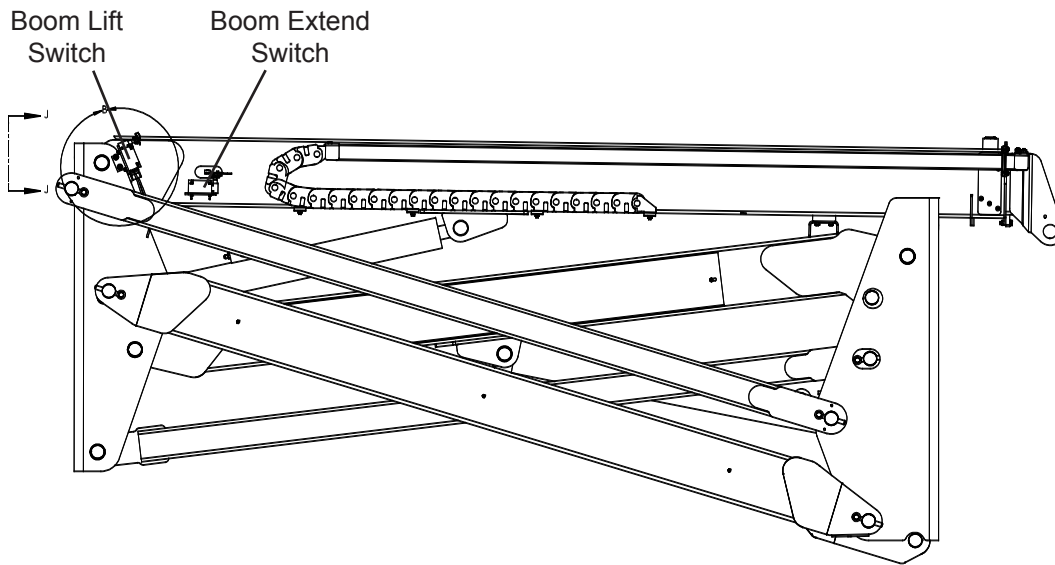


Refer to ELECTRICAL – 27, Riser and Boom Lift Switch Configuration, bill of material for items on this page.

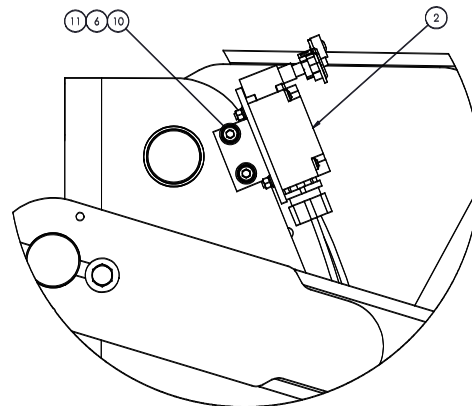
0260433

Riser Lift Switch Configuration

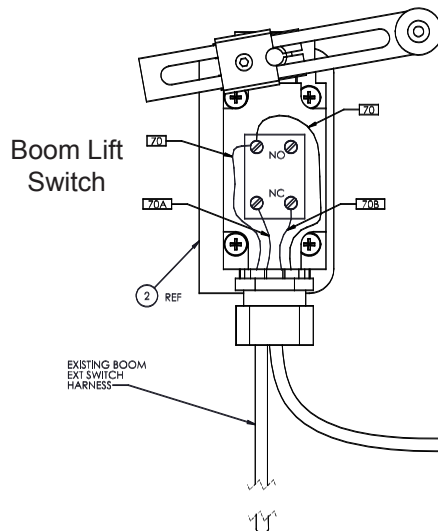
Boom Lift Switch Configuration



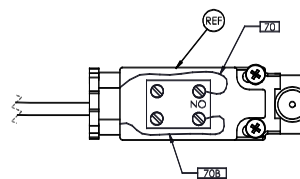
REAR VIEW
SECTION J-J
SCALE 1 : 2



DETAIL B
SCALE 1 : 2



- NOTE:
1. MOUNT ALL SWITCHES WHEN BOOM IS IN THE REST POSITION.
 2. BOTH SWITCHES MUST ACTIVATE IN COW DIRECTION.
 3. BOTH SWITCHES WIRED IN NORMALLY CLOSED POSITION.
 4. CHECK ENGAGEMENT OF SWITCHES AFTER INSTALLATION.



Boom Extension Switch

Refer to ELECTRICAL – 27, Riser and Boom Lift Switch Configuration, bill of material for items on this page.

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Boom Lift Switch Configuration

Riser and Boom Lift Switch Configuration

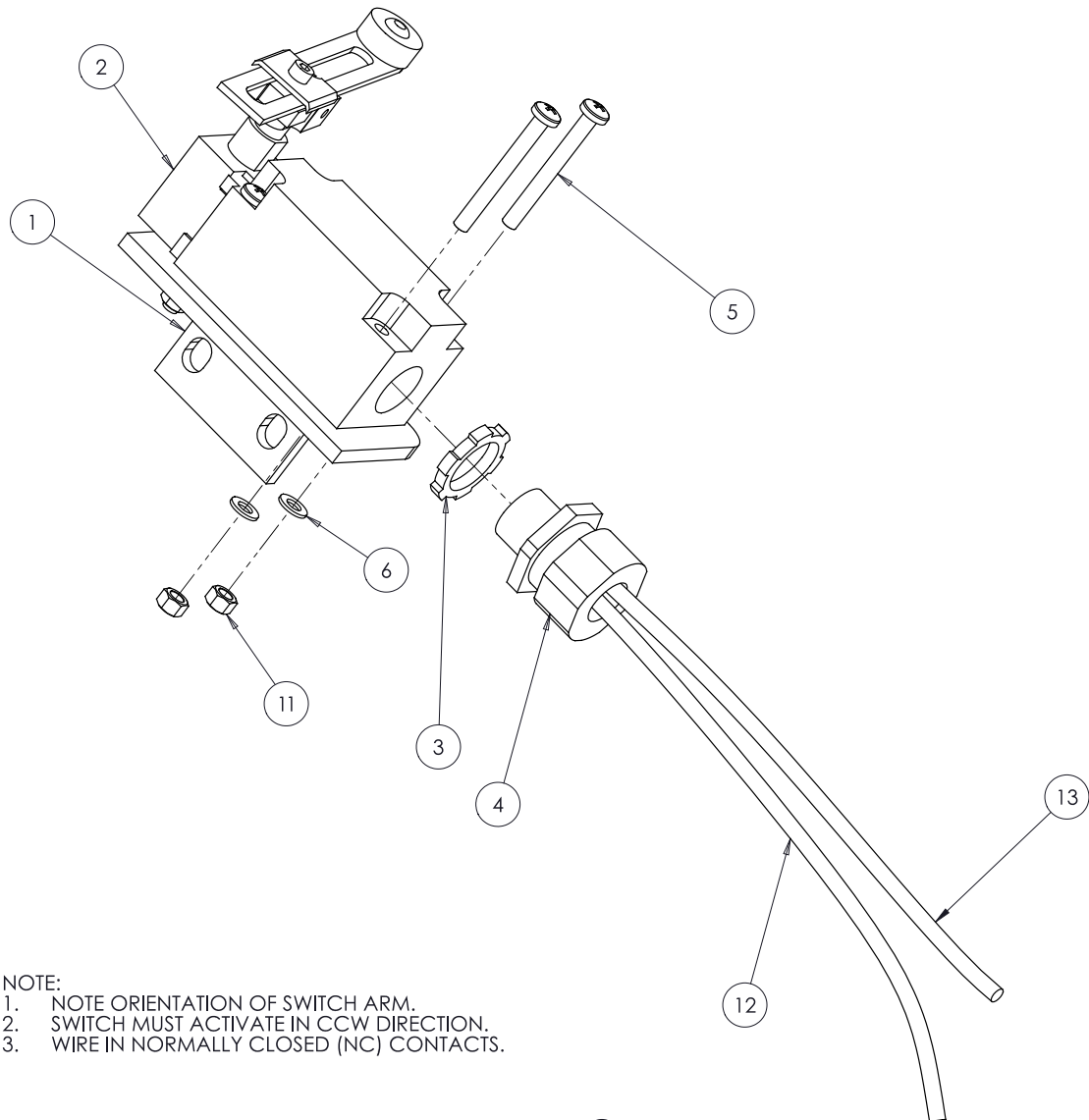
| Item | Part No. | Qty. | Description |
|------|-----------|------|-------------------------------------------------------------|
| 1 | 0260230-2 | 1 | CAM, CE RISER SWITCH |
| 2 | 0260231 | 1 | BOOM LIFT LIMIT SWITCH ASSEMBLY (REFER TO ELECTRICAL – 29) |
| 3 | 0260235 | 1 | RISER LIFT LIMIT SWITCH ASSEMBLY (REFER TO ELECTRICAL – 31) |
| 4 | | REF | MAIN BOOM |
| 5 | | REF | RISER |
| 6 | 5560355 | 6 | WASHER, LOCK M8 |
| 7 | 5560357 | 2 | BOLT HEXHD M8-1.25X25MM |
| 8 | 5560356 | 1 | WASHER, LOCK M10 |
| 9 | 5560627 | 1 | BOLT HEXHD M10-1.50X25MM |
| 10 | 5560613 | 4 | WASHER FLAT M8 |
| 11 | 5560595 | 4 | BOLT SKTHD M8-1.25X20MM |

0260443

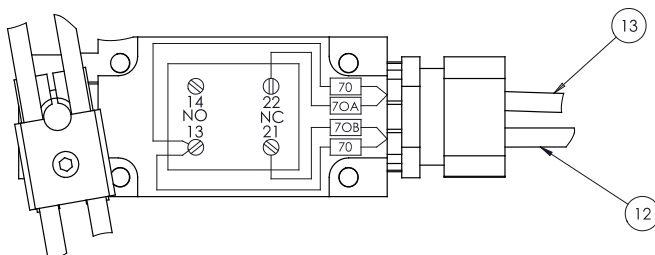
Riser and Boom Lift Switch Configuration

Boom Lift Limit Switch – CE Only

| Item | Part No. | Qty. | Description |
|------|----------|------|-------------------------------|
| 1 | 0260416 | 1 | LIMIT SWITCH MOUNT |
| 2 | 0260347 | 1 | LIMIT SWITCH |
| 3 | 3040070 | 1 | NUT, LKG .500 HUB |
| 4 | 3040536 | 1 | CONNECTOR, .500 .500-.625 |
| 5 | 5563114 | 4 | SCREW, RNDHD M5-0.8 45 MM PHL |
| 6 | 5563048 | 4 | WASHER, FLAT M5 ZINC PL |
| 11 | 5563136 | 4 | NUT, HEX LKG M5-0.8 |
| 12 | 0260232 | 1 | WIRE ASSEMBLY |
| 13 | 0260038 | 1 | WIRE HARNESS |



NOTE:
 1. NOTE ORIENTATION OF SWITCH ARM.
 2. SWITCH MUST ACTIVATE IN CCW DIRECTION.
 3. WIRE IN NORMALLY CLOSED (NC) CONTACTS.

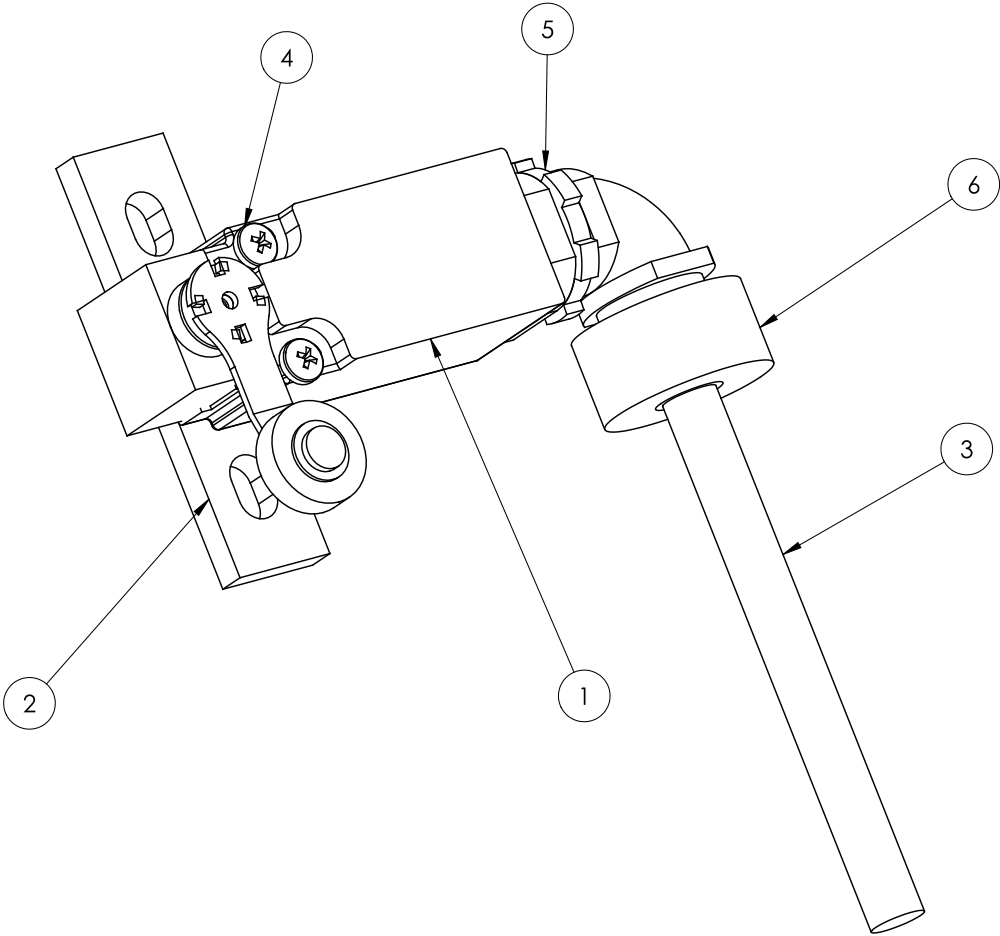


0260231

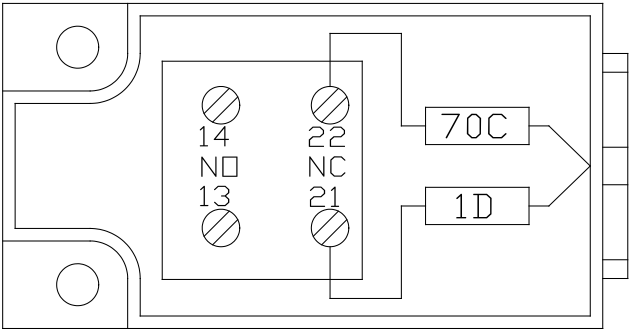
Boom Lift Limit Switch – CE Only

Riser Lift Limit Switch – CE Only

| Item | Part No. | Qty. | Description |
|------|----------|------|------------------------------|
| 1 | 3020140 | 1 | LIMIT SWITCH |
| 2 | 0260234 | 1 | MOUNTING BRACKET |
| 3 | 0260236 | 1 | WIRE ASSEMBLY |
| 4 | 5563094 | 2 | SCREW, RD HD M4 X 30 MM |
| 5 | 3040070 | 1 | NUT, LKG .500 HUB |
| 6 | 3040711 | 1 | CONNECTOR, 90 .500 .375-.500 |



- NOTES:
- 1. NOTE ORIENTATION OF SWITCH ARM
 - 2. SWITCH MUST ACTIVATE IN CCW DIRECTION.
 - 3. WIRE IN NORMALLY CLOSED (NC) CONTACTS.
 - 4. APPLY LOCTITE 242 REMOVABLE THREADLOCKING COMPOUND TO ITEMS #6.

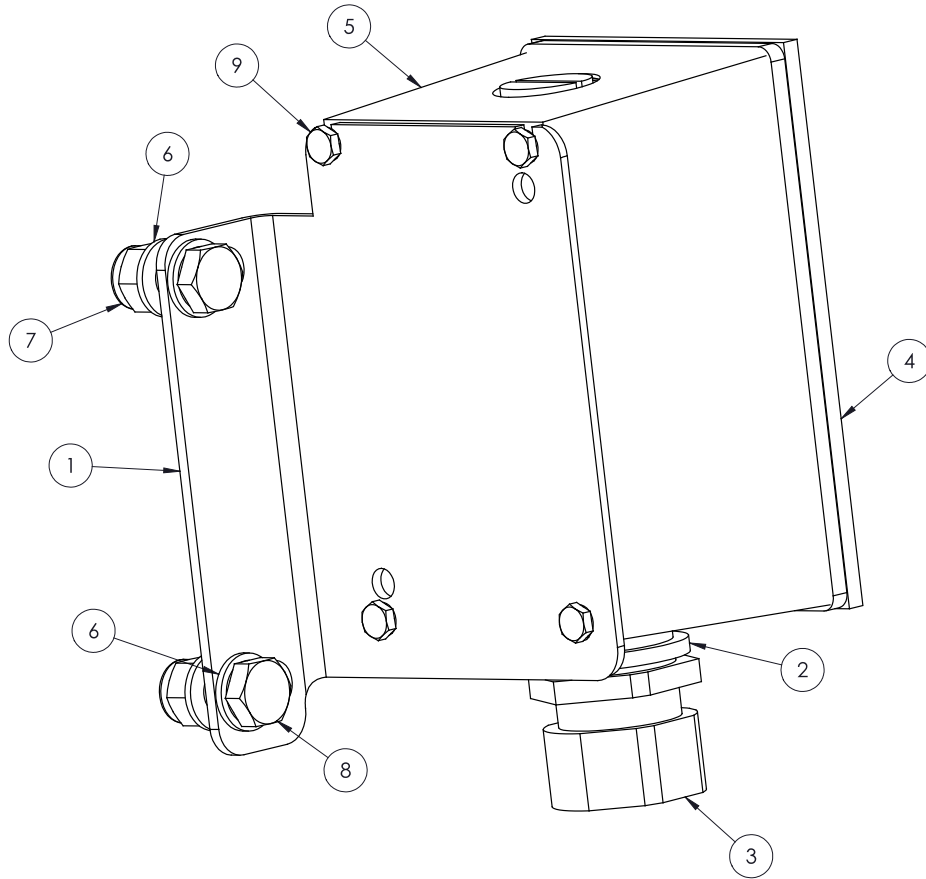


0260235

Riser Lift Limit Switch – CE Only

Platform AC Power

| Item | Part No. | Qty. | Description |
|------|----------|------|--------------------------------|
| 1 | 0162060 | 1 | OUTLET BOX PLATE MTG |
| 2 | 3040110 | 1 | NUT, LKG .750 HUB |
| 3 | 3040116 | 1 | CONNECTOR, .75 .500-.625 |
| 4 | 3040180 | 1 | BLANK WTHPRF COVER W/ GASKET |
| 5 | 3220007 | 1 | BOX ELECTRICAL OUTLET |
| 6 | 5560613 | 4 | WASHER, FLAT M8 DIN 125 |
| 7 | 5560727 | 2 | NUT, HEX LKG M8-1.25 |
| 8 | 5563104 | 2 | BOLT, HEXHD M8-1.25 20MM |
| 9 | 5569978 | 4 | SCREW, HEXHD 8-32 .500 THD CTG |

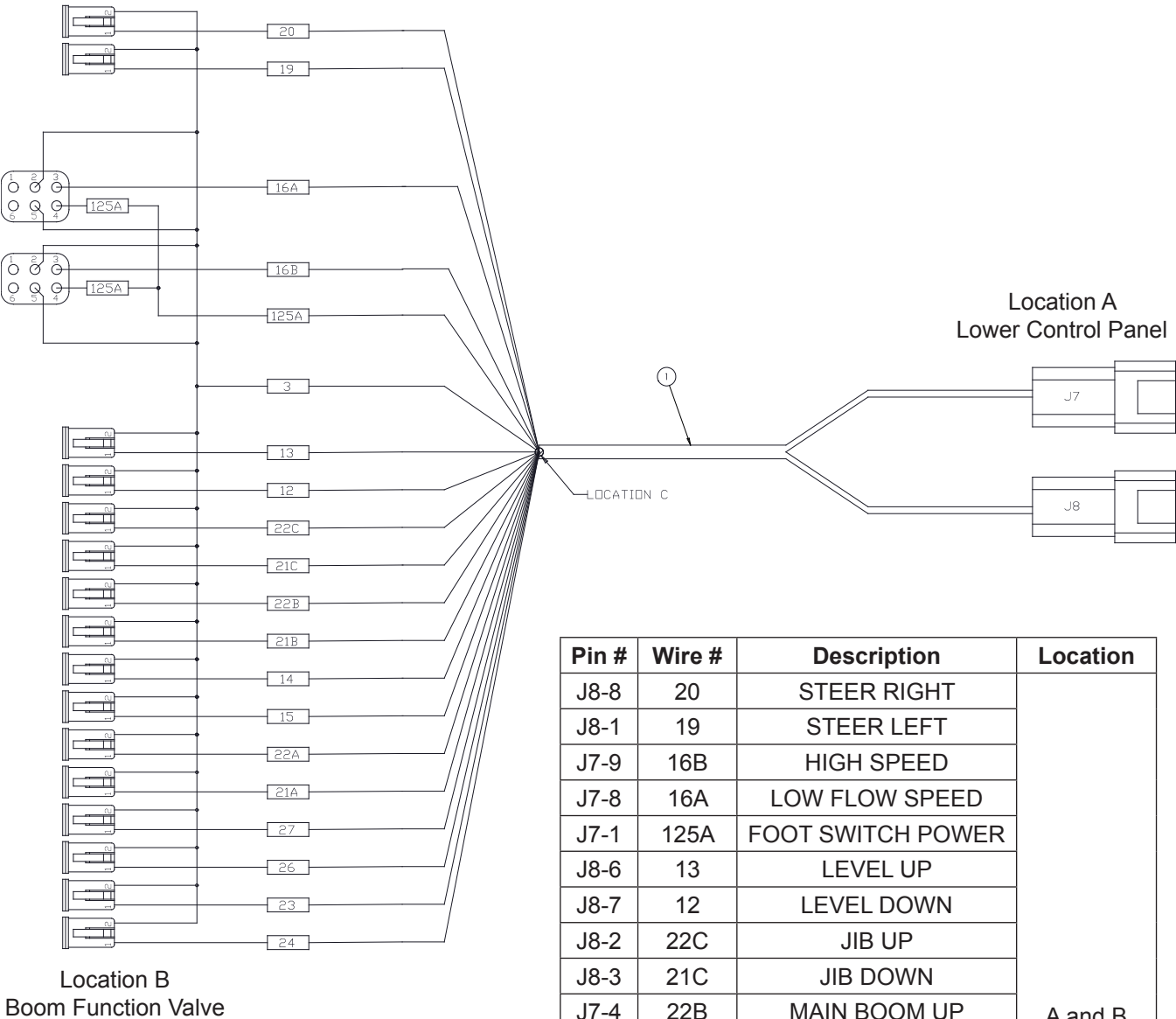


0260501

Platform AC Power

Lower Controls to Boom Function Valve Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|-----------------------------|
| 1 | 0260028 | 1 | WIRING HARNESS, VALVE BLOCK |

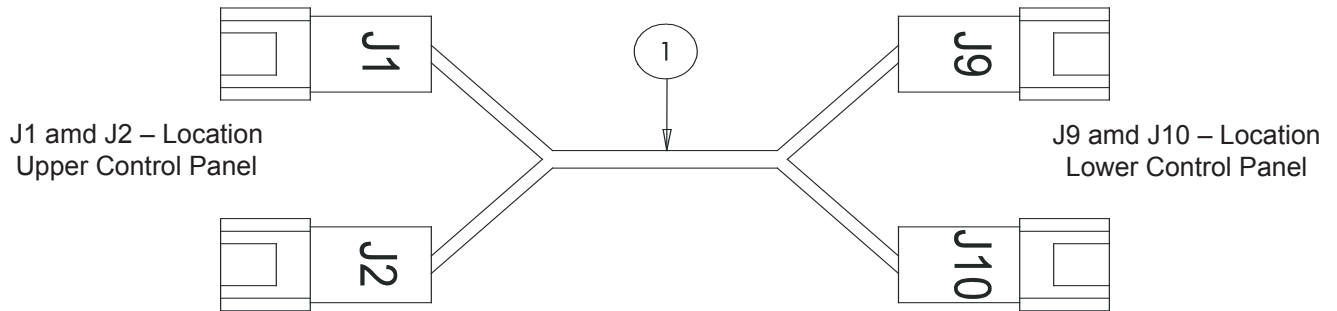


0260028

Lower Controls to Boom Function Valve Wiring Harness

Lower Controls to Upper Controls Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|-----------------------------------------|
| 1 | 0260029 | 1 | WIRING HARNESS, UPPER CONTROL FUNCTIONS |



Connector J1 and J9 Pin ID

| Pin # | Wire # | Rex # | Rex Color |
|-------|--------|-------|-------------|
| 1 | 111 | 12 | BLACK/RED |
| 2 | 24 | 11 | BROWN/BLACK |
| 3 | 23 | 17 | BLACK/BLUE |
| 4 | 22B | 7 | RED/BLACK |
| 5 | 21B | 19 | ORANGE/BLUE |
| 6 | 14 | 15 | YELLOW/RED |
| 7 | 15 | 6 | BROWN |
| 8 | 16A | 3 | BLUE |
| 9 | 16B | 4 | ORANGE |
| 10 | 22A | 2 | RED |
| 11 | 21A | 5 | YELLOW |
| 12 | NONE | NONE | - |

Connector J2 and J10 Pin ID

| Pin # | Wire # | Rex # | Rex Color |
|-------|--------|-------|--------------|
| 1 | 19 | 16 | BROWN/RED |
| 2 | 22C | 9 | ORANGE/BLACK |
| 3 | 21C | 18 | RED/BLUE |
| 4 | 26 | 10 | BROWN |
| 5 | 27 | 1 | BLACK |
| 6 | 13 | 14 | ORANGE/RED |
| 7 | 12 | 13 | BLUE/RED |
| 8 | 20 | 8 | BLUE/BLACK |

0260029

Lower Controls to Upper Controls Wiring Harness

Lower Controls to Engine Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|------------------------|
| 1 | 0260030 | 1 | WIRING HARNESS, ENGINE |

J21 – Location
Engine Harness

J13 – Location
Lower Control Panel

Connector J13 and J21 Pin ID

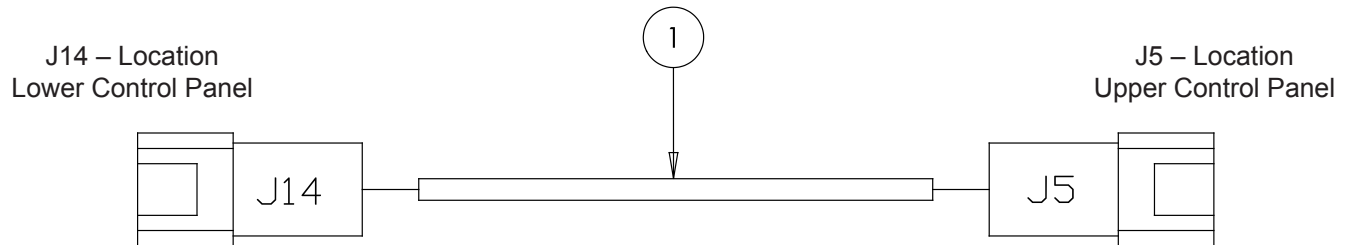
| Pin # | Wire # | Description | Rex # | Rex Color |
|-------|--------|----------------|-------|------------|
| A | 1A | MAIN POWER | 2 | RED |
| B | 38 | HOUR METER | 7 | RED/BLACK |
| C | 1D | AUX POWER | 1 | BLACK |
| D | 111 | COLD START | 4 | ORANGE |
| E | 3 | GROUND | 5 | YELLOW |
| F | 55 | THRTL SLND | 8 | BLUE/BLACK |
| G | 5A | START | 3 | BLUE |
| H | 167 | ANTI RESRT RLY | 6 | BROWN |

0260030

Lower Controls to Engine Wiring Harness

Lower Controls to Upper Controls Wiring Harness – 12/8 Conductor

| Item | Part No. | Qty. | Description |
|------|----------|------|--------------------------------------------------------|
| 1 | 0260031 | 1 | WIRING HARNESS 12/8 CONDUCTOR, UPPER CONTROL FUNCTIONS |



Connector J5 and J14 Pin ID

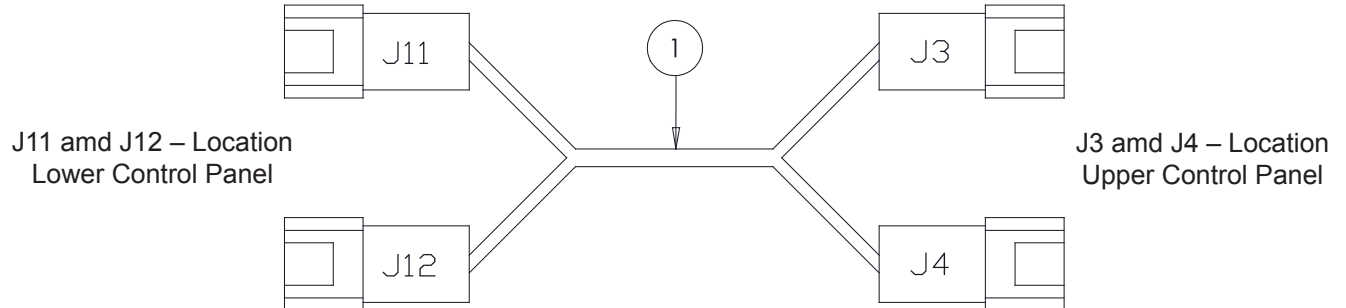
| Pin # | Wire # | Rex # | Rex Color |
|-------|--------|-------|------------|
| A | 2 | 2 | RED |
| B | 2 | 7 | RED/BLACK |
| C | 3 | 1 | BLACK |
| D | 4 | 4 | ORANGE |
| E | 5 | 5 | YELLOW |
| F | 1D | 8 | BLUE/BLACK |
| G | 83 | 3 | BLUE |
| H | 82A | 6 | BROWN |

0260031

Lower Controls to Upper Controls Wiring Harness – 12/8 Conductor

Lower Controls to Upper Controls Wiring Harness – 18/19 Conductor

| Item | Part No. | Qty. | Description |
|------|----------|------|---------------------------------------------------------|
| 1 | 0260032 | 1 | WIRING HARNESS 18/19 CONDUCTOR, UPPER CONTROL FUNCTIONS |



Connector J11 and J3 Pin ID

| Pin # | Wire # | Rex # | Rex Color |
|-------|---------|-------|--------------|
| 1 | 160 | 10 | YELLOW/BLACK |
| 2 | 6 | 11 | BROWN/BLACK |
| 3 | 162 | 17 | BLACK/BLUE |
| 4 | 34 | 7 | RED/BLACK |
| 5 | 163 | 19 | ORANGE/BLUE |
| 6 | 125/38A | 15 | YELLOW/RED |
| 7 | 29 | 3 | BLUE |
| 8 | NONE | NONE | - |
| 9 | 159 | 4 | ORANGE |
| 10 | 3A/204 | 2 | RED |
| 11 | 170 | 5 | YELLOW |
| 12 | 17 | 12 | BLACK/RED |

Connector J12 and J4 Pin ID

| Pin # | Wire # | Rex # | Rex Color |
|-------|--------|-------|--------------|
| 1 | 18 | 16 | BROWN/RED |
| 2 | 213 | 9 | ORANGE/BLACK |
| 3 | 73C | 18 | RED/BLUE |
| 4 | 161 | 6 | BROWN |
| 5 | 169 | 1 | BLACK |
| 6 | 155C | 14 | ORANGE/RED |
| 7 | - | 13 | BLUE/RED |
| 8 | 214 | 8 | BLUE/BLACK |

0260032

Lower Controls to Upper Controls Wiring Harness – 18/19 Conductor

Lower Controls to Level Sensor Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|---------------------------------------------------------|
| 1 | 0260033 | 1 | WIRING HARNESS 18/19 CONDUCTOR, UPPER CONTROL FUNCTIONS |

J15 – Location
Lower Control Panel

Level Sensor

Connector J15 and Level Sensor Pin ID

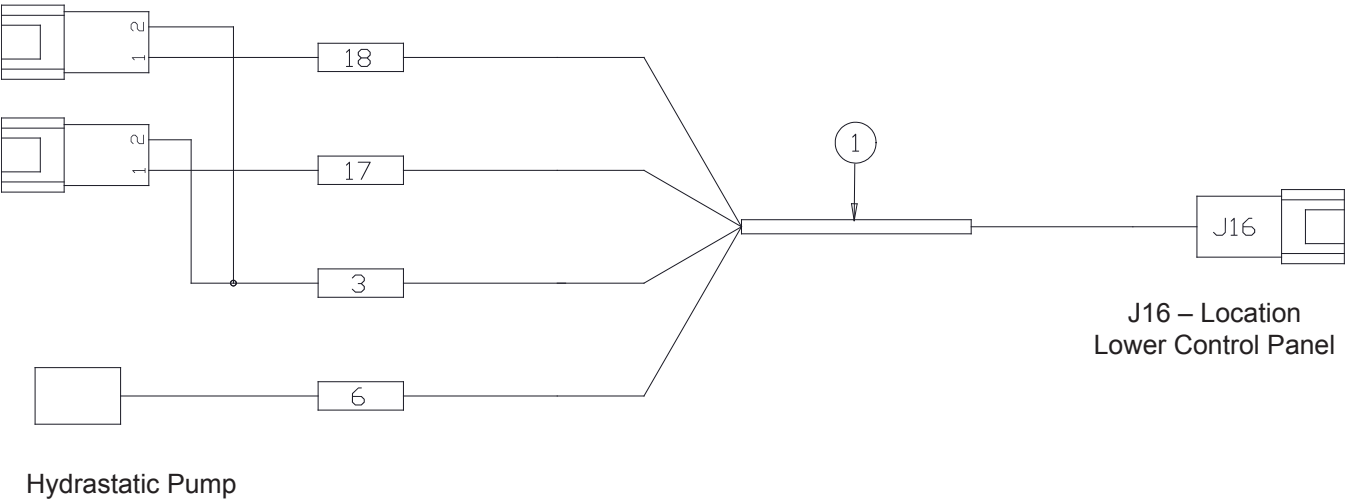
| Pin # | Wire # | Description |
|-------|--------|-------------------|
| A | 1D | AUX CIRCUIT |
| B | 73 | TILT ALARM SIGNAL |
| C | 3 | GROUND |

0260033

Lower Controls to Level Sensor Wiring Harness

Lower Controls to Hydrostatic Drive Pump Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|---------------------------------------------------------|
| 1 | 0260034 | 1 | WIRING HARNESS 18/19 CONDUCTOR, UPPER CONTROL FUNCTIONS |



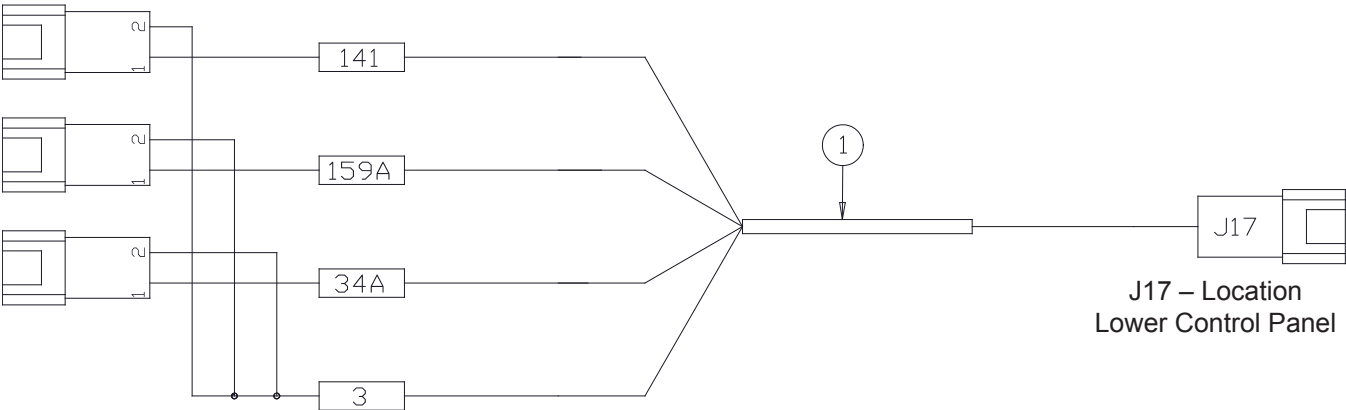
Connector J16 Pin ID

| Pin # | Wire # |
|-------|--------|
| 1 | 18 |
| 2 | 17 |
| 3 | 3 |
| 4 | 6 |

Lower Controls to Hydrostatic Drive Pump Wiring Harness

Lower Controls to Brake Release Valve Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|-------------------------------------|
| 1 | 0260035 | 1 | WIRING HARNESS, BRAKE RELEASE VALVE |



Brake Release Valve

Connector J17 Pin ID

| Pin # | Wire # |
|-------|--------|
| 1 | 141 |
| 2 | 159A |
| 3 | 34A |
| 4 | 3 |

Lower Controls to Brake Release Valve Wiring Harness

Down Limit Switch Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|-----------------------------------|
| 1 | 0260036 | 1 | WIRING HARNESS, DOWN LIMIT SWITCH |

J18 – Location
Lower Control Panel

Down Limit Switch

Connector J18 and Down Limit Switch Pin ID

| Pin # | Wire # | Description |
|-------|--------|----------------|
| 1 | 1D | PWR TO LT SW |
| 2 | 70 | PWR FROM LT SW |

0260036

Down Limit Switch Wiring Harness

Horn Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|----------------------|
| 1 | 0260037 | 1 | WIRING HARNESS, HORN |

J20 – Location
Lower Control Panel

Horn

Connector J20 and Horn Pin ID

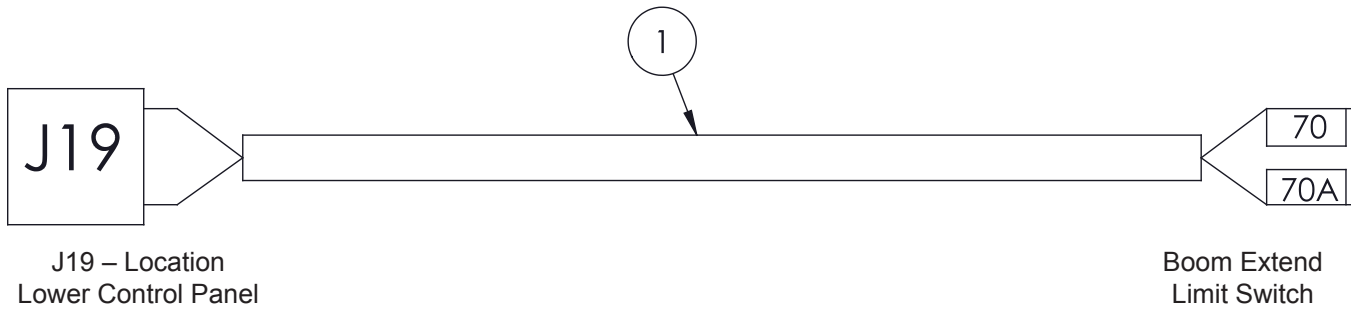
| Pin # | Wire # | Description |
|-------|--------|-------------|
| 1 | 29A | HORN |
| 2 | 3 | GROUND |

0260037

Horn Wiring Harness

Boom Extend Limit Switch Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|-----------------------------------|
| 1 | 0260038 | 1 | WIRING HARNESS, BOOM LIMIT SWITCH |



**Connector J19 and Boom Extend Limit Switch
Pin ID**

| Pin # | Wire # | Description |
|-------|--------|-----------------|
| 1 | 70 | PWR TO EXT SW |
| 2 | 70A | PWR FROM EXT SW |

0260038

Boom Extend Limit Switch Wiring Harness

Motion Alarm Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|------------------------------|
| 1 | 0260484 | 1 | WIRING HARNESS, MOTION ALARM |

J23 – Location
Lower Control Panel

Motion Alarm

Connector J23 and Motion Alarm Pin ID

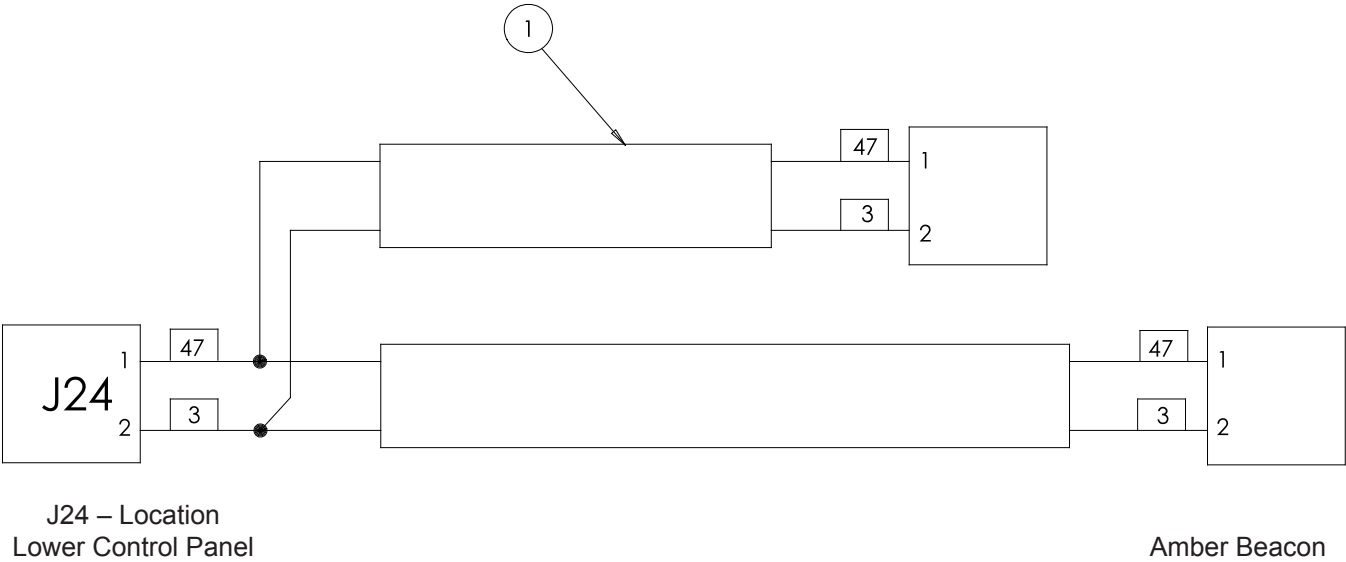
| Pin # | Wire # | Description |
|-------|--------|--------------|
| 1 | 39 | MOTION ALARM |
| 2 | 3 | GROUND |

0260484

Motion Alarm Wiring Harness

Amber Beacon Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|------------------------------|
| 1 | 0260429 | 1 | WIRING HARNESS, AMBER BEACON |



Amber Beacon Wiring Harness

Platform Foot Switch Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|--------------------------------------|
| 1 | 0260047 | 1 | WIRING HARNESS, PLATFORM FOOT SWITCH |

J6 – Location
Upper Control Panel

Foot Switch

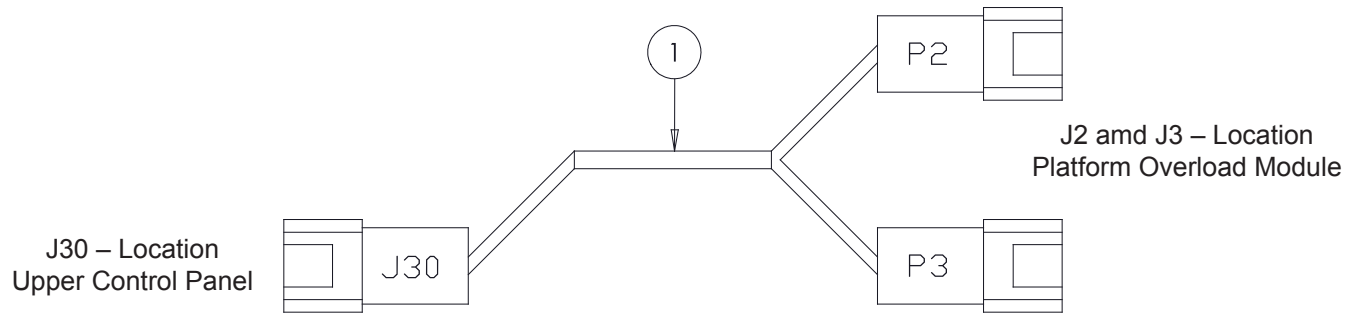
Connector 6 and Foot Switch Pin ID

| Pin # | Wire # |
|-------|--------|
| 1 | 10 |
| 2 | 8 |
| 3 | 9 |
| 4 | - |

Platform Foot Switch Wiring Harness

Platform Overload Module Wiring Harness

| Item | Part No. | Qty. | Description |
|------|----------|------|------------------------------------------|
| 1 | 0260210 | 1 | WIRING HARNESS, PLATFORM OVERLOAD MODULE |



Connector J30 Pin ID

| Pin # | Wire # | Description |
|-------|--------|-----------------|
| 1 | 1D | AUX POWER |
| 2 | 3 | GROUND |
| 3 | 170 | HI RANGE |
| 4 | 213 | FAILSAFE OUTPUT |
| 5 | 214 | OVERLOAD LAMP |
| 6 | 29 | HORN |
| 7 | - | - |
| 8 | - | - |

Connector P2 Pin ID

| Pin # | Wire # | Description |
|-------|--------|-------------|
| 1 | - | - |
| 2 | - | - |
| 3 | - | - |
| 4 | - | - |
| 5 | - | - |
| 6 | - | - |
| 7 | - | - |
| 8 | - | - |
| 9 | - | - |
| 10 | 170 | HI RANGE |
| 11 | 3 | GROUND |
| 12 | 1D | AUX POWER |

Connector P3 Pin ID

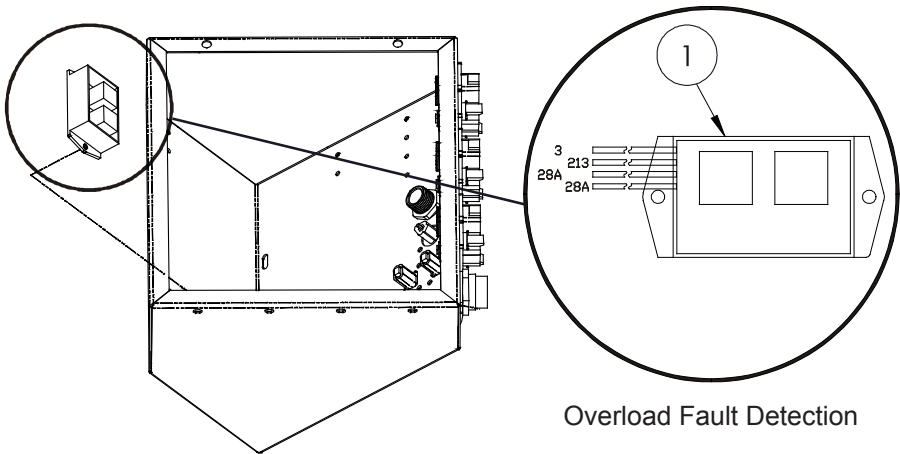
| Pin # | Wire # | Description |
|-------|--------|-----------------|
| 1 | - | - |
| 2 | 29 | HORN |
| 3 | 214 | OVERLOAD LAMP |
| 4 | 213 | FAILSAFE OUTPUT |
| 5 | - | - |
| 6 | - | - |

0260210

Platform Overload Module Wiring Harness

Platform Overload System at Lower Controls

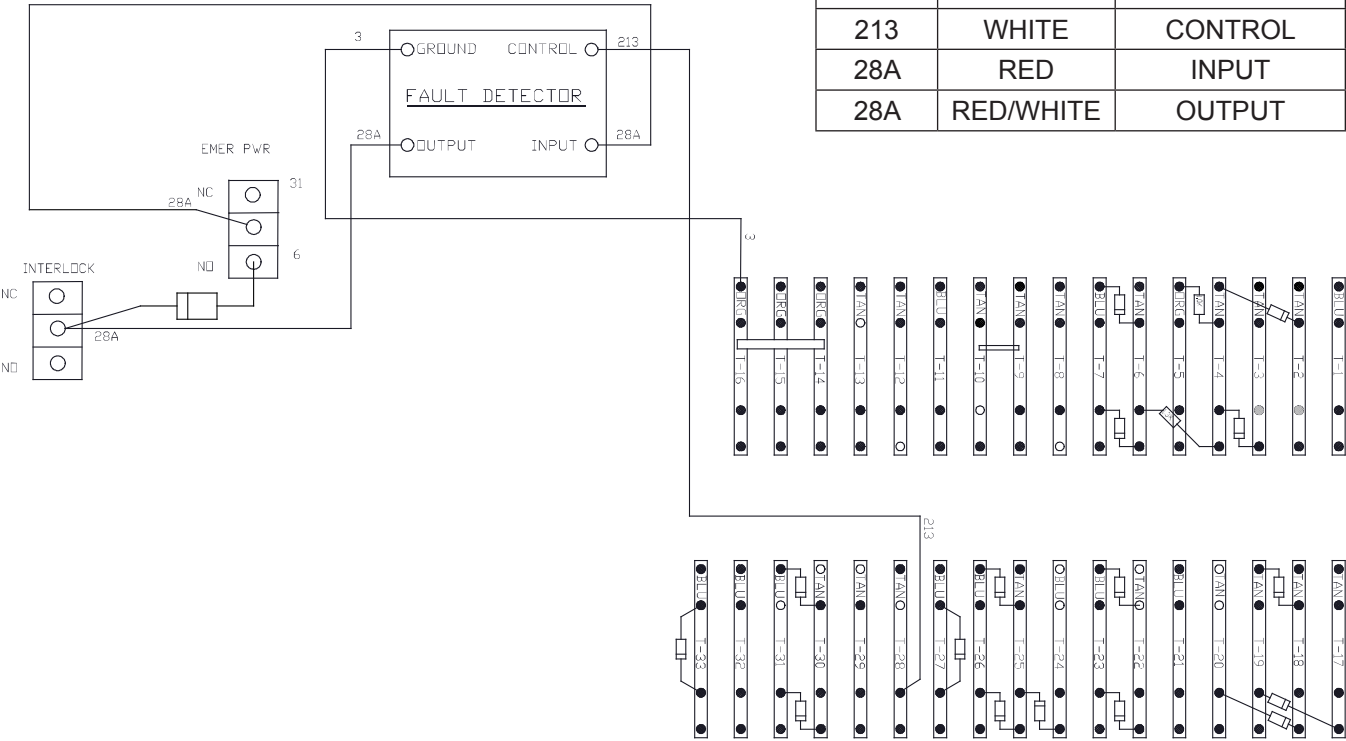
| Item | Part No. | Qty. | Description |
|------|----------|------|--------------------------|
| 1 | 3220096 | 1 | OVERLOAD FAULT DETECTION |



Lower Control Panel – Inside

Overload Fault Detection Connections

| Wire # | Color | Function |
|--------|-----------|----------|
| 3 | BLACK | GROUND |
| 213 | WHITE | CONTROL |
| 28A | RED | INPUT |
| 28A | RED/WHITE | OUTPUT |



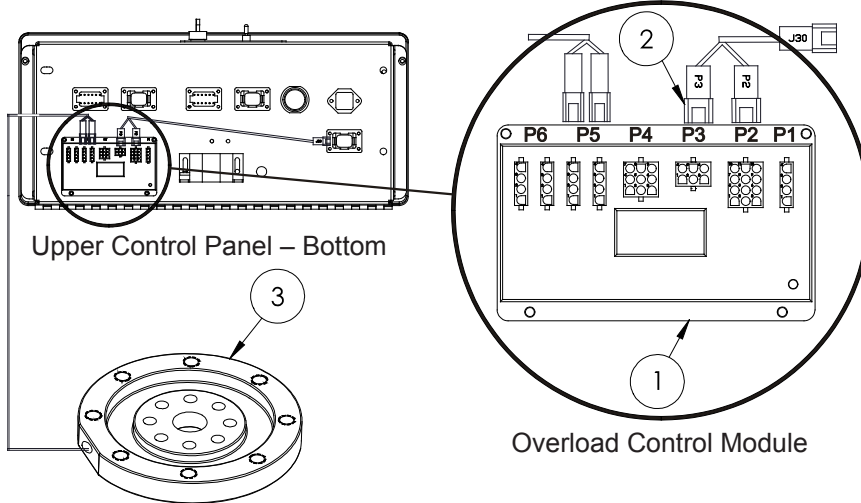
Overload Fault Detection Wiring – Lower Control Panel

AB46LCPOS

Platform Overload System at Lower Controls

Platform Overload System at Upper Controls

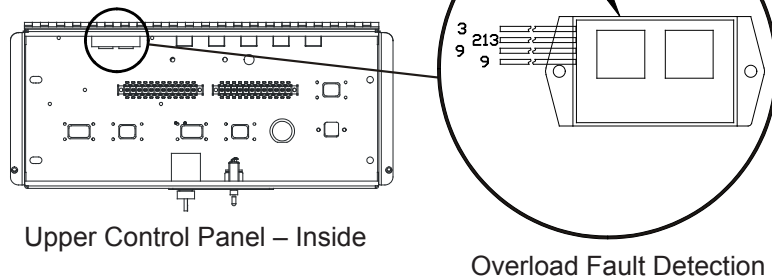
| Item | Part No. | Qty. | Description |
|------|------------|------|----------------------------------------------------|
| 1 | 116347-000 | 1 | OVERLOAD CONTROL |
| 2 | 0260210 | 1 | WIRING HARNESS, PLATFORM OVERLOAD MODULE |
| 3 | 116346-000 | 1 | PLATFORM OVERLOAD SENSOR (INCLUDES WIRING HARNESS) |
| 4 | 3220096 | 1 | OVERLOAD FAULT DETECTION |



Overload Control Connections

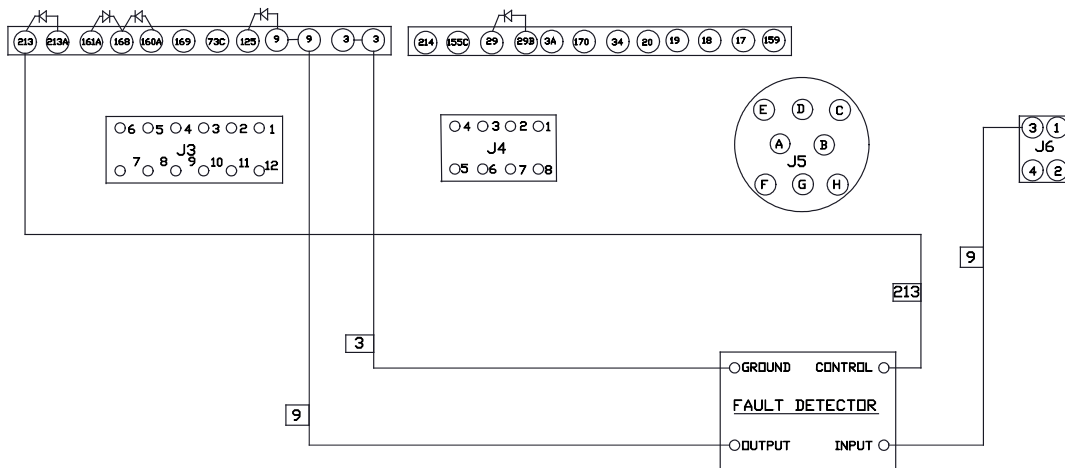
| | Cable Function |
|----|-----------------|
| P1 | DIAGNOSTICS |
| P2 | INPUT |
| P3 | OUTPUT |
| P5 | OVERLOAD SENSOR |

Platform Overload Sensor Mounted between platform mounting bracket and rotator.



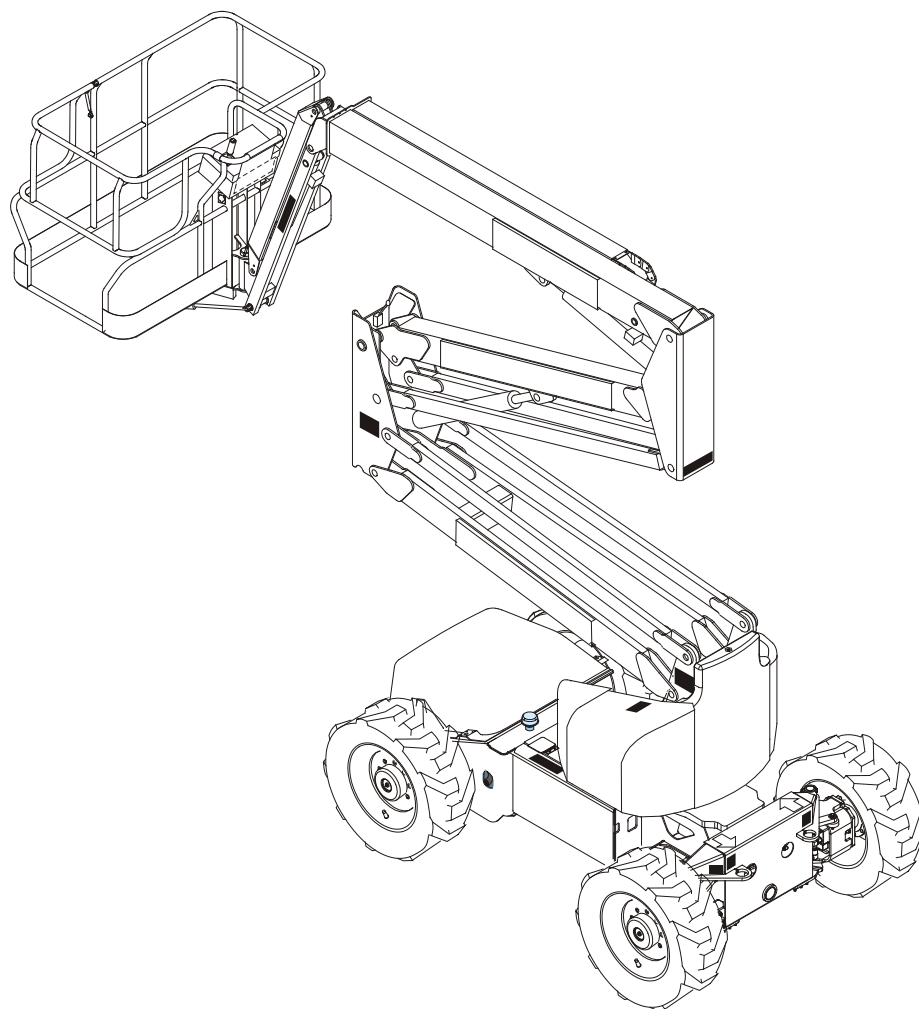
Overload Fault Detection Connections

| Wire # | Color | Function |
|--------|-----------|----------|
| 3 | BLACK | GROUND |
| 213 | WHITE | CONTROL |
| 9 | RED | INPUT |
| 9 | RED/WHITE | OUTPUT |



Platform Overload System at Upper Controls

Options

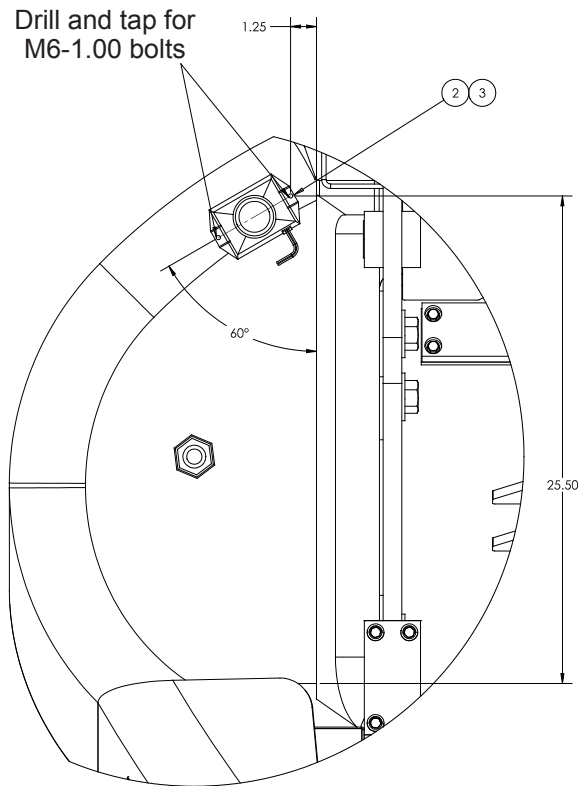


AB46RT

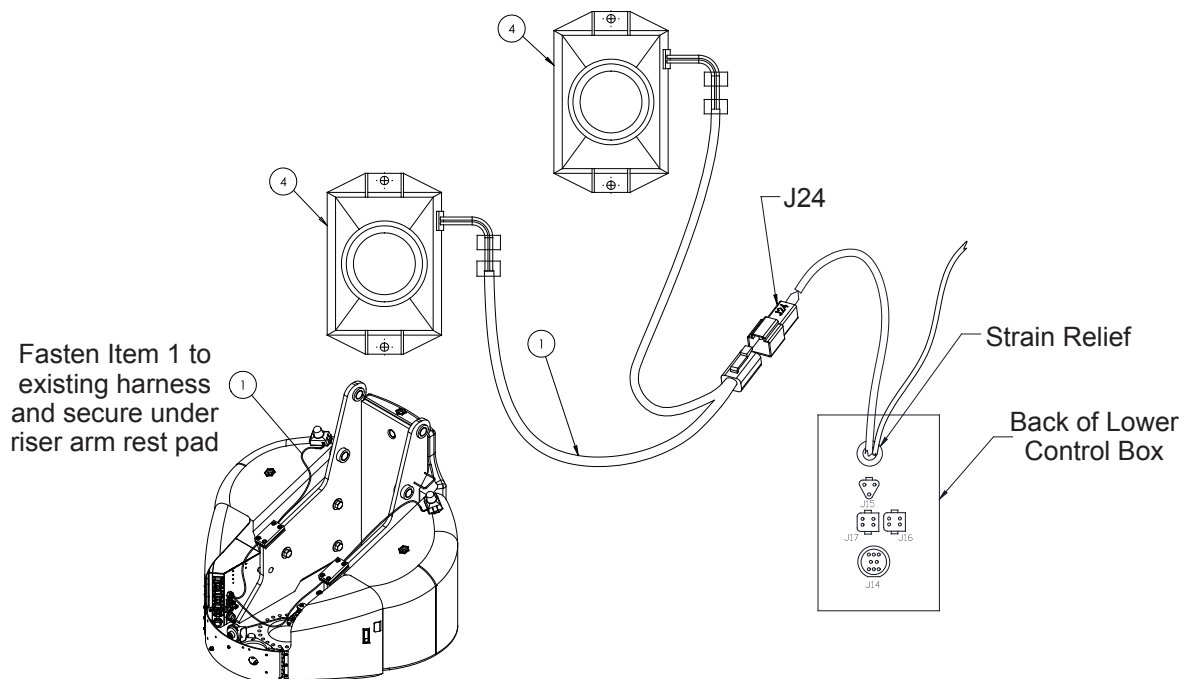
UpRight

Dual Amber Beacon

| Item | Part No. | Qty. | Description |
|------|----------|------|-------------------------------------------------|
| 1 | 0260429 | 1 | WIRE HARNESS, BEACON (REFER TO ELECTRICAL – 59) |
| 2 | 975209 | 4 | BOLT, HEXHD M6-1.00 18MM |
| 3 | 5560664 | 4 | WASHER, LOCK M6 |
| 4 | 0361297 | 2 | FLASHING LIGHT ASSEMBLY |



Detail B

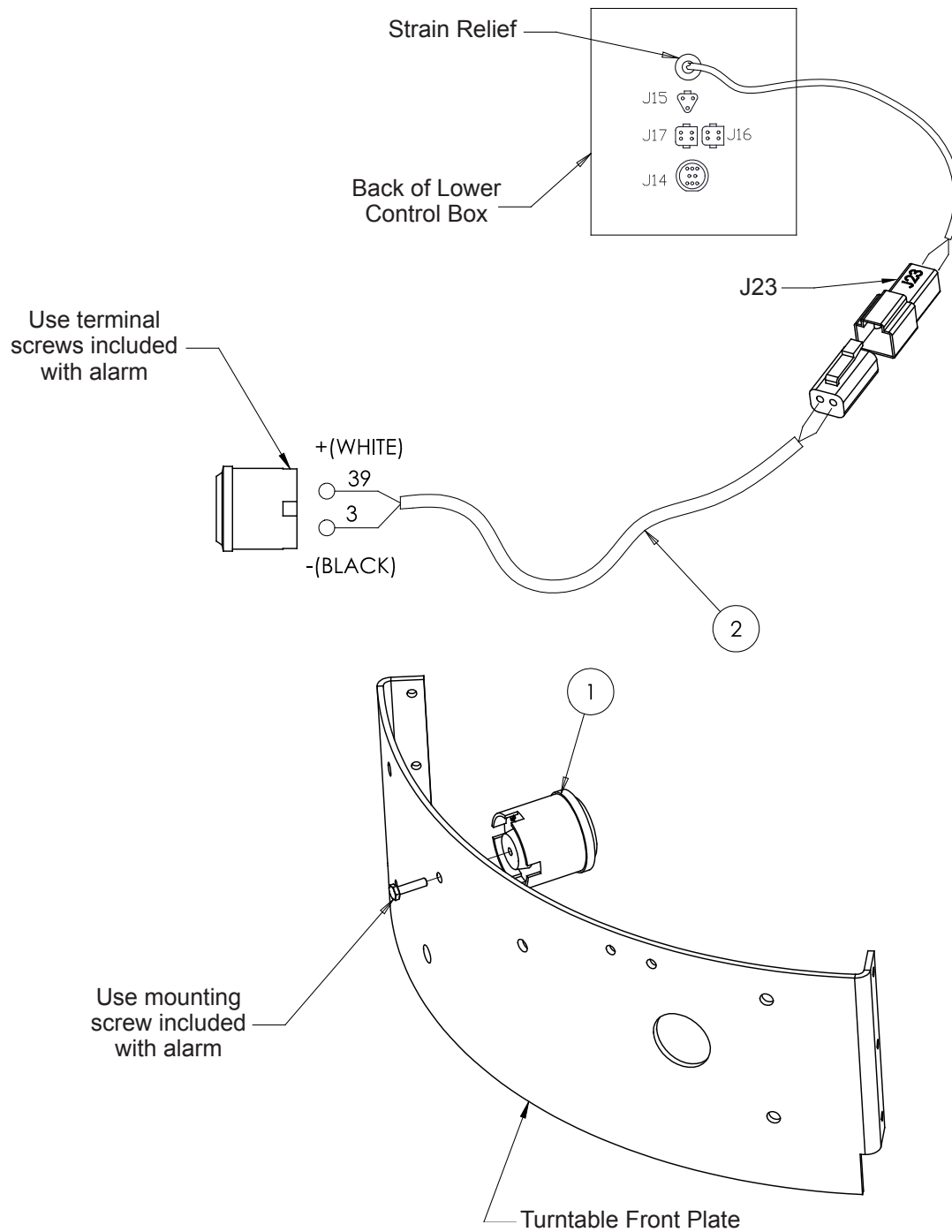


0260259

Dual Amber Beacon

Motion Alarm

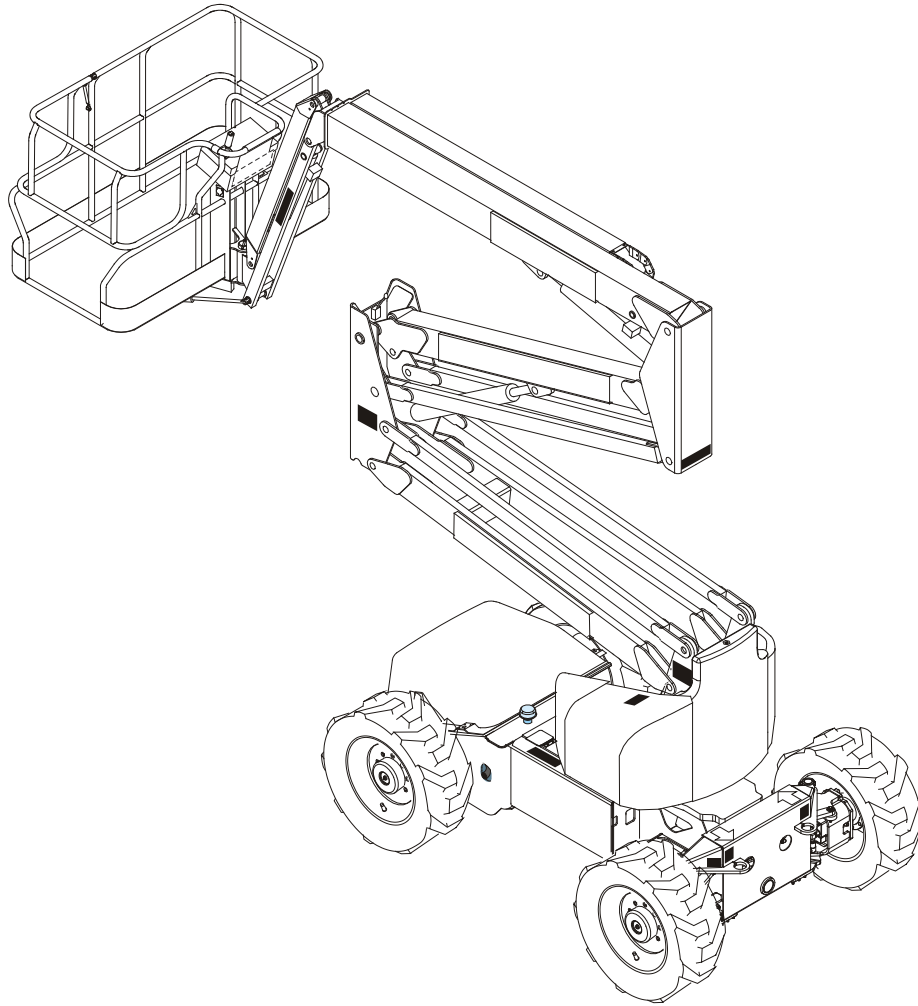
| Item | Part No. | Qty. | Description |
|------|----------|------|-------------------------------------------------------|
| 1 | 3040593 | 1 | ALARM, 97 DBA |
| 2 | 0260484 | 1 | WIRE HARNESS, MOTION ALARM (REFER TO ELECTRICAL – 57) |



A26013A

Motion Alarm

Maintenance



AB46RT

UpRight

Maintenance

Every person who maintains, inspects, tests or repairs the aerial platform must be qualified to do so. Maintenance functions must be performed by maintenance personnel who are qualified to work on the aerial platform.

A Caution

Welding current can be very intense. Damage to electronic components can result. Connect the ground clamp as close as possible to the area being welded. Disconnect the battery cables and any microprocessors and engine control modules before welding on the machine.

If it becomes necessary to weld aerial platform components as a method of repair, take all precautions to prevent damage to electronic circuitry and devices on the machine. This includes, but may not be limited to, disconnecting battery cables and electronic devices.

Do not modify this aerial platform without prior written consent of the UpRight Engineering Department. Modification may void the warranty, adversely affect stability or affect the operational characteristics of the aerial platform.

Maintenance Schedules

The manufacturer has established a preventative maintenance schedule to detect any defective, damaged or improperly secured parts and provide information regarding lubrication and other minor maintenance items.

This schedule includes the following:

- Daily Prestart Inspection
- Frequent Inspection and Maintenance – Every 90 Days or 150 Hours
- Annual Maintenance – Every 500 Hours

The Daily Prestart Inspection must be performed by a trained operator. All other maintenance and inspection must be performed by a trained service technician only. Retain a copy of these forms for your records.

All placards and decals on the machine must be in place and legible. Use the Placards and Decals parts page in the Repair Parts section of this manual to check these placards and decals.

UpRight recommends that you make additional copies of the preventative inspection and maintenance checklists for your use in performing these inspections.

A Warning

The potential for accident increases when operating an aerial platform that is damaged or malfunctioning. Death or serious injury can result from such accidents. Do not operate the aerial platform if it is damaged or malfunctioning.

Repair all defects before returning the machine to service.

General Information

The parts drawings located in the Repair Parts section are designed for use as a guide for proper disassembly of the machine and components, as well as, for parts replacement.

A Danger

Hydraulic fluid escaping under pressure can have enough force to inject fluid into the flesh. Serious infection or reaction will result if medical treatment is not given immediately. In case of injury by escaping hydraulic fluid, seek medical attention at once.

Always refer to the hydraulic system installation drawings and the electrical wiring diagram before removing or disassembling associated parts.

When disassembling or reassembling components, complete the procedural step in sequence. Do not partially disassemble or assemble one part, then start on another. Always check your work to assure that nothing has been overlooked.

Keep the following in mind when disassembling or assembling the machine.

- Always be conscious of weight.
- Never attempt to lift heavy objects without the aid of a mechanical device.
- Do not allow heavy object to rest in an unstable condition.
- Always make sure the work platform is in the stowed position, blocked or the weight removed by a suitable lifting device before removing any components from the machine.
- When raising a portion of the machine, be sure that adequate blocking is properly positioned. Do not depend solely on the lifting device to hold and secure weight.
- If a part resists removal, check to see if all fasteners, electrical wiring, hydraulic lines, etc., have been removed or that other parts are not interfering.

Parts should be thoroughly inspected before restoring to service at the time of reassembly. Burrs, nicks or scratches may be removed from machines surfaces by honing or polishing with a #600 crocus cloth, followed by a thorough cleaning with an approved cleaning solvent, and blown dry with compressed air. Do not alter the contour of any part. If this operation does not restore the part to a serviceable condition, replace the part.

Replace all o-rings, seals and gaskets at reassembly. Use new roll pins or cotter pins. Dip all packing rings and seals in hydraulic oil before reassembling in cylinder and manifolds. Replace any part having imperfect threads. In general, machines that have been disassembled can be reassembled by reversing the order of disassembly.

The service life of a machine can be increased by keeping dirt and foreign materials out of the vital components. Shields, covers, seals and filters help to keep air and oil supplies clean. However, these items must be maintained on a scheduled basis in order to function properly.

Clean surrounding areas, as well as the opening and fittings before disconnecting air or oil lines. As soon as a line or component is disconnected, cap or cover all openings to prevent the entry of dirt or foreign materials.

New parts should remain in their container until they are ready to be used.

Clearly mark or tag hydraulic lines and electrical wiring connections when disconnecting or removing them from the machine. This will assure that they are correctly reinstalled.

Proper assembly is critical to the successful rebuilding of any machine. Carefully, inspect any parts which are to be reused. If in doubt, replace.

“Safety First” is a good slogan.

Replace any guards and protective devices that have been removed to carry out maintenance and repair work.

Daily Prestart Inspection

| Item | Inspect For | Ok |
|-------------------------------------------------------|-------------------------------------------------|----|
| Operator's Manual | In place, all pages readable and intact | |
| Engine | | |
| Oil level | Between full and add marks | |
| Coolant | Proper fluid level | |
| Radiator | Cap tight, good condition and clean | |
| Fuel tank and line | Tank full, cap in place and tight/no leaks | |
| Electrical System | | |
| Battery | Condition and charged for proper operation | |
| Battery fluid level and terminals | Proper level/clean, connectors tight | |
| Cables and wiring harness | No wear or physical damage | |
| Hydraulic System | | |
| Fluid level | Visible in bottom of sight gauge | |
| Fluid filter | Verify operation in the green zone | |
| Hoses, tubes and fittings | No leaks | |
| Cold weather warm-up kit | Proper operation | |
| Tires | | |
| Air filled | Good condition, proper inflation | |
| Foam filled | Good condition | |
| Wheels | All wheel lug nuts present and properly torqued | |
| Lower Control Station | | |
| Operating controls | Proper operation | |
| Emergency stop and emergency power | Shuts off lower controls/proper operation | |
| Level Sensor | Sounds tilt alarm | |
| Flashing Light | Proper operation | |
| All Motion Alarm | Sounds when machine is operated and/or driven | |
| Structures | | |
| Weldments – Chassis, turntable, booms, platform, etc. | Welds intact, no damage or deformation | |
| Slide pads | In place, no damage or deformation | |
| Fasteners | In place and tight | |
| Upper Control Station | | |
| Guardrail system and lanyard anchors | Welds intact, no damage or deformation | |
| Operating controls | Proper operation | |
| Emergency stop and emergency power | Shuts off upper controls/proper operation | |
| Horn | Sounds when activated | |
| Electrical power outlet – GFCI | Proper operation | |
| Placards and Decals | In place and readable | |

Performed by: _____ Date: _____

Frequent Inspection and Maintenance – Every 90 Days or 150 Hours

| Item | Procedure | Information | OK |
|------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------|----|
| Chassis | | | |
| Structural | Check for damage and cracked welds | | |
| Steering cylinder pin caps and retaining bolts | Verify that all fasteners are in place | | |
| Oscillating axle lock cylinders, rollpin, and lynch pin | Verify that all fasteners are in place | | |
| Steering linkage | Check for proper operation | | |
| Tires | Check for wear and damage | | |
| | Proper inflation | 70 psi to 75 psi Air filled tires only | |
| Hydraulic tubes and hoses | Check for leaks, wear, and damage | | |
| Decals and placards | Check for damage and readability Order replacements as necessary | | |
| Torque drive and steer wheel lug nuts per placard on wheel | Torque lug bolts/nuts to proper value on machine placard | 4x4 front: 200 to 225 ft lb 4x2 front: 70 to 80 ft lb All rear: 200 to 225 ft lb | |
| Right drive motor(s) | Check for leaks | | |
| Left drive motor(s) | Check for leaks | | |
| Turntable | | | |
| Structural | Check for damage and cracked welds | | |
| Torque turntable top bolts | Torque to proper value | 190 ft lbs | |
| Torque turntable bottom bolts | Torque to proper value | 190 ft lbs | |
| Hydraulic tubes and hoses | Check for leaks, wear, and damage | | |
| Cowling | Check for wear/damage and that fasteners are in place and are tight | | |
| Wire harness | Check for wear/damage and that fasteners are in place and are tight | | |
| Tilt alarm | Check for proper operation | | |
| Lower Booms | | | |
| Structural | Check for damage and cracked welds | | |
| Boom lift cylinder retaining bolts | Verify that all fasteners are in place and are tight | | |
| Boom lift cylinder and holding valve | Check for leaks, wear, damage, and for proper operation | | |
| Riser lift cylinder forged pin retainer/retaining bolt | Verify that all fasteners are in place and are tight | | |
| Riser lift cylinder and holding valve | Check for leaks, wear, damage, and for proper operation | | |
| Master level cylinder forged pin retainer | Verify that all fasteners are in place and are tight | | |
| Hydraulic tubes and hoses | Check for leaks, wear, and damage | | |
| Electrical Wires | Check for wear and damage | | |
| Left Hand Access Door | | | |
| Boom control valve | Check for leaks, wear, damage, and for proper operation | | |
| Boom circuit system pressure | Check maximum system pressure | 2,700 to 2,800 psi | |
| Filter minder gauge | Check for proper operation | | |

Frequent Inspection and Maintenance – Every 90 Days or 150 Hours

| Item | Procedure | Information | OK |
|---------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----|
| Engine Compartment | | | |
| Structural | Check for damage and cracked welds | | |
| Fuel tank | Check for leaks, wear, and damage | | |
| Fuel gauge | Check for proper operation | | |
| Fuel tank cap | Check for leaks, wear, and damage | | |
| Engine air filter | Check for wear and damage | | |
| Engine belts and hoses | Check for wear and damage | | |
| Engine oil | Check for wear and damage/level | Between add and full marks | |
| Engine coolant level | Check for level | Between hot and cold level | |
| Engine | Check for proper operation | | |
| Engine start – stop | Check for proper operation | | |
| Electric throttle | Check for proper operation | | |
| Engine charging system | Check for proper operation | | |
| Engine shutdown, low oil pressure | Check for proper operation | | |
| Hydraulic pump | Check for proper operation | | |
| Hydraulic oil reservoir | Check for wear/damage/leaks | | |
| Hydraulic oil reservoir filler/breather cap | Verify that all fasteners are in place and are tight | | |
| Hydraulic oil reservoir fluid level | Check for proper level | Above 10°F (-13°C) Mobil DTE-13M, ISO VG32 Below 10°F (-13°C) Mobil DTE-11M, ISO VG15 | |
| Hydraulic oil return filter | Replace after the first 50 hours, every 90 days or 150 hours thereafter | | |
| | Inspect filter for foreign matter that could indicate component wear | | |
| Drive system control valve | Verify that all fasteners are in place and are tight | | |
| Upper Booms | | | |
| Structural | Check for damage and cracked welds | | |
| Electrical wires | Check for wear and damage | | |
| Extension cylinder pins, snap rings, and forged pin retainers | Verify that all fasteners are in place and are tight | | |
| Extension cylinder and holding valve | Check for leaks, wear, damage, and for proper operation | | |
| Jib cylinder pin and retainer bolt | Verify that all fasteners are in place and are tight | | |
| Jib cylinder and holding valve | Check for leaks, wear, damage, and for proper operation | | |
| Slave level cylinder pin caps and retainer bolt | Verify that all fasteners are in place and are tight | | |
| Slave level cylinder holding valves | Check for leaks, wear, damage, and for proper operation | | |
| Hose carrier assembly | Check for residue buildup/proper operation | | |
| Hydraulic hoses and tubes | Check for leaks, wear, and damage | | |
| Platform rotator, pin and forged pin retaining system | Verify that all fasteners are in place and are tight | | |

Continued on next page...

Frequent Inspection and Maintenance – Every 90 Days or 150 Hours

| Item | Procedure | Information | OK |
|--------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------|----|
| Upper Booms | | | |
| Platform rotator, pin and forged pin retaining system | Verify that all fasteners are in place and are tight | | |
| Platform rotation holding valve | Verify that all fasteners are in place and are tight | | |
| Rotator mounting bolts | Verify that all fasteners are in place and are tight | | |
| Overload cell | Check for proper operation | | |
| Platform | | | |
| Structural | Check for damage and cracked welds | | |
| Decals and placards | Check for damage and readability Order replacements as necessary | | |
| Platform gates | Check for damage/proper operation | | |
| Platform mounting bolts | Verify that all fasteners are in place and are tight | | |
| Operator's Manual | Proper manual in document holder | | |
| Batteries | | | |
| Battery terminals | Clean terminals and check cable condition | | |
| Electrolyte | Check for proper level | Add distilled water if necessary | |
| Indicator gauges (if equipped) | Check for proper operation/condition | | |
| Lower Control Station | | | |
| Station selector switch in the lower controls position | Check for proper operation | With the selector in the lower controls position, the upper controls do not work | |
| Station selector switch in the upper control position | Check for proper operation | With the selector in the upper controls position, the lower controls do not work | |
| Preheat button | Check for proper operation | | |
| Keyed start switch | Check for proper operation | | |
| Throttle interlock | Check for proper operation | | |
| Audible alarms | Check for proper operation | | |
| Turntable rotation CW – CCW | Check for proper operation | | |
| Riser boom lift Up – Down | Check for proper operation | | |
| Main boom lift Up – Down | Check for proper operation | | |
| Jib boom lift Up – Down | Check for proper operation | | |
| Boom extension In – Out | Check for proper operation | | |
| Platform leveling Up – Down | Check for proper operation | | |
| Platform rotation CW – CCW | Check for proper operation | | |
| Emergency power, all functions | Check for proper operation | | |
| Emergency stop | Check for proper operation | | |
| Hour meter | Check for proper operation | | |
| Upper Control Station | | | |
| Foot switch | Check for proper operation | Functions should be operational when foot switch is engaged | |
| Start switch | Check for proper operation | | |

Continued on next page...

Frequent Inspection and Maintenance – Every 90 Days or 150 Hours

| Item | Procedure | Information | OK |
|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|----|
| Upper Control Station | | | |
| Throttle | Check for proper operation | Engine should throttle up when the foot switch is engaged | |
| Preheat switch | Check for proper operation | | |
| Boom speed knob | Check for proper operation | | |
| Horn | Check for proper operation | | |
| Turntable rotation CW – CCW | Check for proper operation | | |
| Riser boom lift Up – Down | Check for proper operation | | |
| Main boom lift Up – Down | Check for proper operation | | |
| Jib boom lift Up – Down | Check for proper operation | | |
| Emergency power, all functions | Check for proper operation | | |
| Emergency stop | Check for proper operation | | |
| Gradual start to stop, drive/steer controls | Check for proper operation | | |
| Drive speed limit switch, main boom lift | Check for proper operation | | |
| Drive speed limit switch, tip boom extend | Check for proper operation | | |
| Drive speed limit switch, riser boom lift – CE only | Check for proper operation | | |
| 110 volt AC power to platform | Check for proper operation | | |
| Boom extension In – Out | Check for proper operation | | |
| Platform leveling Up – Down | Check for proper operation | | |
| Platform rotation CW – CCW | Check for proper operation | | |
| Drive range – booms stowed | Check for proper operation | Slow speed only with boom raised | |
| Drive speed | Boom down and retracted High – 4.25 to 4.5 mph | 50 ft in 7.6 to 8 sec | |
| | Boom up or extended Low – 0.7 to 0.8 mph | 50 ft in 42.5 to 48.5 sec | |
| Optional Equipment | | | |
| Air line to platform | Check for proper operation | | |
| All motion warning alarm | Check for proper operation | | |
| Flashing light | Check for proper operation | | |
| Hydraulic warm-up system – JRT only | Check for proper operation | | |
| AC generator – JRT only | Check for proper operation | | |

Performed by: _____ Date: _____

Frequent Maintenance – Every 90 Days or 150 Hours

| Item | Procedure | Information | OK |
|---------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----|
| Daily maintenance | Perform maintenance as per schedule | Retain copy of checklist | |
| Preventive inspection maintenance checklist | Perform inspection, complete form | Retain copy of checklist | |
| Placards and decals inspection | Inspect using drawing and parts listing in Section 1 – Repair Parts Manual | Replace any missing or unreadable decals/placards | |
| Door hinges and latches | Lubricate | SAE 10W oil or spray lubricant | |
| Rotation bearing | Lubricate | Conoco Super Sta #2 Above 32° F Mobilgrease CM-P Below 32° F Mobilgrease CM-L | |
| Rotation bearing teeth and pinion | Lubricate | Mobil Mobiltac 375NC | |
| Gear hubs | Check fluid level, fill if low | Mobil Mobilube 80W-90 | |
| Platform rotator | Check for proper operation | Repair or replace if not working properly | |
| Platform controller | Check smooth operation & speeds | | |
| Batteries | Check specific gravity | 1.260/1.275 at 80° F | |
| Charging system | Check operation | | |
| Engine RPM | Check for proper engine RPM | See engine owner's manual | |
| Engine oil and filter | Replace per engine owner's manual | See engine owner's manual | |
| Engine fuel filter | Check condition | Replace every 6 months or if dirty | |

Performed by: _____ Date: _____

Annual Maintenance – Every 500 Hours

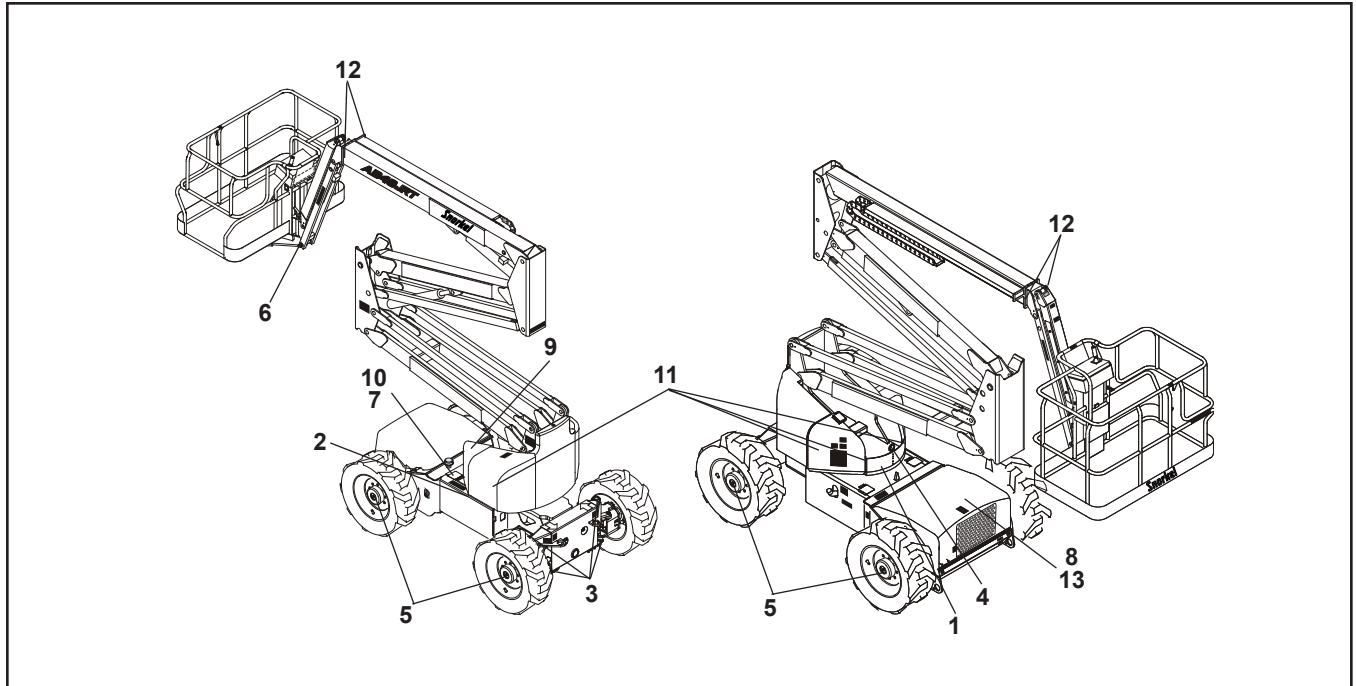
| Item | Procedure | Information | Ok |
|------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------|----|
| 90 day or 150 hour maintenance | Perform maintenance per schedule | Retain copy of checklist | |
| Hydraulic oil reservoir | Clean and replace fluid | Above 10° F Mobil DTE-13M Below 10° F Mobil DTE-11M | |
| Hydraulic return filter | Replace | After first 50 hours, then at recommended interval | |
| Hydraulic reservoir suction filter | Clean and reinstall | | |
| Hydraulic pressures | Drive pump setting | Differential pressure: 450-500 psi | |
| | | Maximum pressure: 5,000-5,100 psi | |
| | Boom pump setting | Maximum pressure: 2,750-2,800 psi | |
| | Function pressures: check at manifold, except level | Steer right/left: 2,700-2,800 psi | |
| | | Riser boom down: 3,300-3,400 psi | |
| | | Main boom down: 1,400-1,500 psi | |
| | | Extend: 1,900-2,000 psi | |
| | | Jib up/down: 2,700-2,800 psi | |
| | | Rotate: 1,200 psi max on level | |
| | | Pressure reducing valve: 2,700-2,800 psi | |
| | | Drive/boom relief: 3,000 psi | |
| | Level Pressure: install gauge between valve and slave cylinder | Level: 2,000-2,050 psi | |
| Gear hubs | Replace fluid | Mobil Mobilube HD 80W-90 | |
| Swing drive | Replace fluid | Mobil Mobilube HD 80W-90 | |
| Engine coolant | Check condition | See engines owner's manual | |

Performed by: _____ Date: _____

Major Repairs

| Date | Part Number | Part Description | Repair Performed |
|------|-------------|------------------|------------------|
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Lubrication Points



Lubrication

Specific lubricants as recommended by Snorkel, should be used in maintaining the unit. If in doubt regarding the use of lubricants other than those listed, contact Snorkel Customer Service Department for evaluation and recommendation.

Refer to the above lubrication illustration to locate component item numbers.

Service all fittings as indicated on the Frequent Maintenance schedule and lubrication illustration. Wipe away all excess lubricant from exposed surfaces. Over lubrication can collect dirt and foreign matter which acts as an abrasive. Lubrication of accessory equipment should be in accordance with the manufacturer's recommendations.

Rotation Bearing

Rotation bearing – Item 1. Pressure gun lubricate bearing at recommended interval using lubricant as outlined in the maintenance schedule. Rotate while lubricating. The lubrication fitting is located on the rear of the turntable.

Rotation Gear Teeth and Pinion

Rotation gear teeth and pinion – Item 2. Gear teeth and gear box pinion should be lubricated with a spray-on type open gear lubricant.

Tie Rods

Tie rods – Item 3. Lubricate at recommended interval using lubricant as outlined in the maintenance schedule.

Swing Drive

Swing drive – Item 4. To check oil level, remove check plug located on the side of the gear box. Unit is full if oil is level with bottom of fill hole or just starts to run out.

Gear Hubs

Gear hubs – Item 5. To check and fill Gear hubs:

1. Rotate wheel until bottom of filler/drain plug is about 1 inch above horizontal centerline.
2. Remove plug with drive ratchet and extension.
3. Fill until lubricant is level with bottom of fill hole.

Note

Do not overfill gear hubs as they are not vented and need air space for expansion of oil to prevent damage to hubs.

Platform Rotator

Platform Rotator – Item 6. Platform rotators will require lubrication only if disassembled for repairs. Consult factory for proper lubricant if replacement of platform rotator is required.

Hydraulic Oil Reservoir

Hydraulic oil reservoir – Item 7. The fluid level should be visible in the bottom of the sight gauge and should be checked with the machine in the stowed position.

The interior of the reservoir should be wiped out and cleaned each time the hydraulic oil is changed. The reservoir filler/breather cap should be removed and the cap strainer cleaned with Kerosene, fuel oil, or other solvent at this time.

It is absolutely necessary that only new, clean hydraulic oil is added.

Note

If it becomes necessary to add or use an oil other than the recommended fluid, it is important that it be compatible and equivalent to the factory fill. Local oil suppliers can generally furnish this information.

If questions still remain, contact Snorkel Customer Service Department for further information.

Engine

Engine – Item 8. Refer to the engine manufacturer's instruction manual or consult your local engine service representative if engine adjustments or repairs are needed. The engine must be operated in accordance with manufacturer's instructions and serviced at recommended intervals.

Hydraulic Oil Return Filter

Return filter – Item 9. The hydraulic oil return filter is located on the control valve behind the door on the right side of the turntable

The filter element is a throw-away type filter and should be changed after the initial break-in period (approximately 50 hours operation time).

The filter is equipped with a hydraulic pressure gauge to indicate the filter element condition. A by-pass relief within the filter base is provided and is set to by-pass at 25 psi. If pressure readings are above 25 psi, the filter should be changed.

The filter condition should be checked at the 90 day or 150 hour Preventive Inspection Maintenance interval or more frequently under extreme working conditions.

The filter condition indicator is accurate only when the engine is running at maximum rpm and pump is discharging maximum flow, which occurs only during full speed driving. This requires that the indicator be observed while the unit is in motion, booms fully retracted and in stowed position, drive range switch in "LO" position, and drive controller fully forward. Oil temperature should be at least 90° F (32° C).

AWarning

Use extreme caution while observing the condition indicator because of the motion of the drive wheels. The condition indicator is best observed from outside of the tract of the vehicle wheels to avoid possible personal injury or machine damage.

When changing the filter element, the oil inside of the filter element, should be examined for deposits of metal cuttings, which is present, could indicate excessive wear in some of the system components.

Suction Strainer

Suction strainer – Item 10. Two 100 mesh strainers are located within the hydraulic oil reservoir, one on the inlet and one on the outlet, and filters the pump suction flow.

The strainers should be cleaned at the time interval shown in the maintenance schedule chart, using Kerosene, fuel oil or other solvent and a soft bristled brush.

Inspect the filter wire cloth for damage. Holes in the filter cloth leak dirt into the pump and other vital hydraulic components. If element is damaged, replace.

When the filter has been thoroughly cleaned, reinstall in suction line and tighten securely.

Door Hinges and Latches

Door hinges and latches – Item 11. After lubricating, remove any excess lubricant or over spray so it will not collect dirt or debris.

Slide Pads

Slide pads – Item 12. Check slide pads for excessive wear and replace as required. Slide pads do not require lubrication.

Battery

Battery – Item 13. The Battery will have longer life if the water level is maintained and they are kept charged. The engine will have better starting characteristics with a fully charged battery. In cold weather the battery should be maintained at full charge to keep from freezing. An extremely low or dead battery can freeze in cold weather. Make sure connections are clean and tight.

Make sure charging equipment is operating properly.

ADanger

Lead-acid batteries produce flammable and explosive gases. Never allow smoking, flames or sparks around batteries. Lead-acid batteries contain sulfuric acid which will damage eyes or skin on contact. When working around batteries, always wear a face shield to avoid acid in eyes.

If acid contacts eyes, flush immediately with clear water and get medical attention. Wear rubber gloves and protective clothing to keep acid off skin, if acid contacts skin, wash off immediately with clear water.

Battery Care and Maintenance





The following information about battery care and maintenance was supplied by Interstate Batteries and is reprinted here with their permission.

1. New batteries need to be cycled several times before reaching full capacity (20-50 cycles, depending on type). Usage should be limited during this period.

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2. Always recharge batteries fully, immediately after use. Batteries perform best when they are fully charged. More capacity and longer life will result from this practice.
 3. The deeper the discharge, the fewer number of cycles a lead-acid battery will deliver. Deep discharges deteriorate the battery quicker than lighter shallow cycles.
 4. Battery cables should be intact and connectors kept tight at all times. Systematic inspection is recommended.
 5. Vent caps should be kept in place and tight during vehicle operation and battery charging.
 6. Batteries should be kept clean – free of dirt and corrosion – at all times. Always keep the top of batteries clean. A film on top of the battery can cause the current to migrate between the posts, accelerating self discharge.
 7. Never let the electrolyte level of a lead-acid battery fall below the plates. Lack of maintaining the electrolyte in a lead-acid battery causes damage to the exposed portion of the plate which reduces capacity.
 8. Always check electrolyte level before charging. Do not add water to individual cells unless plates are exposed. Batteries should be watered after charging unless the plates are exposed before charging. If exposed before charging, the plates should be covered by approximately 1/8" of water. Check water level after charging. Water should be kept 1/4" below the bottom of the fill tube in the cell cover.
 9. Water used to replenish batteries should be distilled or treated to not exceed 200 T.D.S. (total dissolved solids... parts per million). Particular care should be taken to avoid metallic solids (iron).
 10. A fully charged battery will give you the best and longest service. Be sure the batteries are fully charged before testing or using. A fully charged battery, without a drain or load, after the surface charge has dissipated, is 6.35 volts for a 6 volt battery.
 11. Batteries should not be discharged below 20% of capacity (approximately 1.8 volts per cell under normal operating load; 1.98 volts open circuit; 1.145 specific gravity). Proper battery sizing will help avoid excessive discharge.
 12. Battery chargers should be sized to fully charge batteries in an eight hour period. Chargers should be kept in proper operating condition.
 13. Do not use a mismatched charger of any type; i.e., a 12 volt charger on a 24 volt pack or a 24 volt charger on a 12 volt pack. An undersized charger will never get the job done, no matter how long it tries. An oversized charger will cause excess gassing and heat that could possibly result in a battery meltdown and/or explosion.
 14. Never charge a lead-acid battery with a sealed (gel cell) battery charger. The lead-acid battery needs higher voltage to finish its charge. Without it the battery will never come back to 100% and sulfation can occur.
 15. Always allow batteries to cool off after charging. The cooling time is very important because heat is generated during the recharge and discharge cycles. Without the cooling time the heat grows, accelerating grid corrosion which is one of the major causes of battery failure. Charging practice should enable batteries to cool before use.
 16. Deep cycle batteries need to be equalized periodically. Equalizing is an extended, low current charge performed after the normal charge cycle. It helps keep cells in balance. Actively used batteries should be equalized once per week. Manually timed chargers should have the charge time extended approximately 3 hours. Automatically controlled chargers should be unplugged and reconnected after completing a charge cycle.
 17. In situations where multiple batteries are connected in series, parallel or series-parallel, a replacement battery's should be of the same size, age and usage level as the companion batteries. Do not put a new battery in a pack that has 50 or more cycles. Either replace all the batteries with new batteries or install a good used battery's in place of the bad. New batteries should be given a full charge before use.
 18. Periodic battery testing is an important preventative maintenance procedure. Hydrometer readings of each cell (fully charged) give an indication of balance and true charge level. Imbalance could mean the need for equalizing and is often a sign of improper charging or a bad cell. Voltage checks (open circuit, charged and discharged) can locate a bad cell or weak battery. Load testing will pick out a bad cell when other methods fail. The point is to look for the abnormal. A weak cell or battery will cause premature failure of companion cells or batteries respectively.
 19. As batteries age, their maintenance requirements change. Generally their specific gravity is higher and gassing voltage goes up. This means longer charging time and/or higher finish rate (higher amperage at the end of charge). Usually, older batteries need to be watered more often and their capacity decreases.

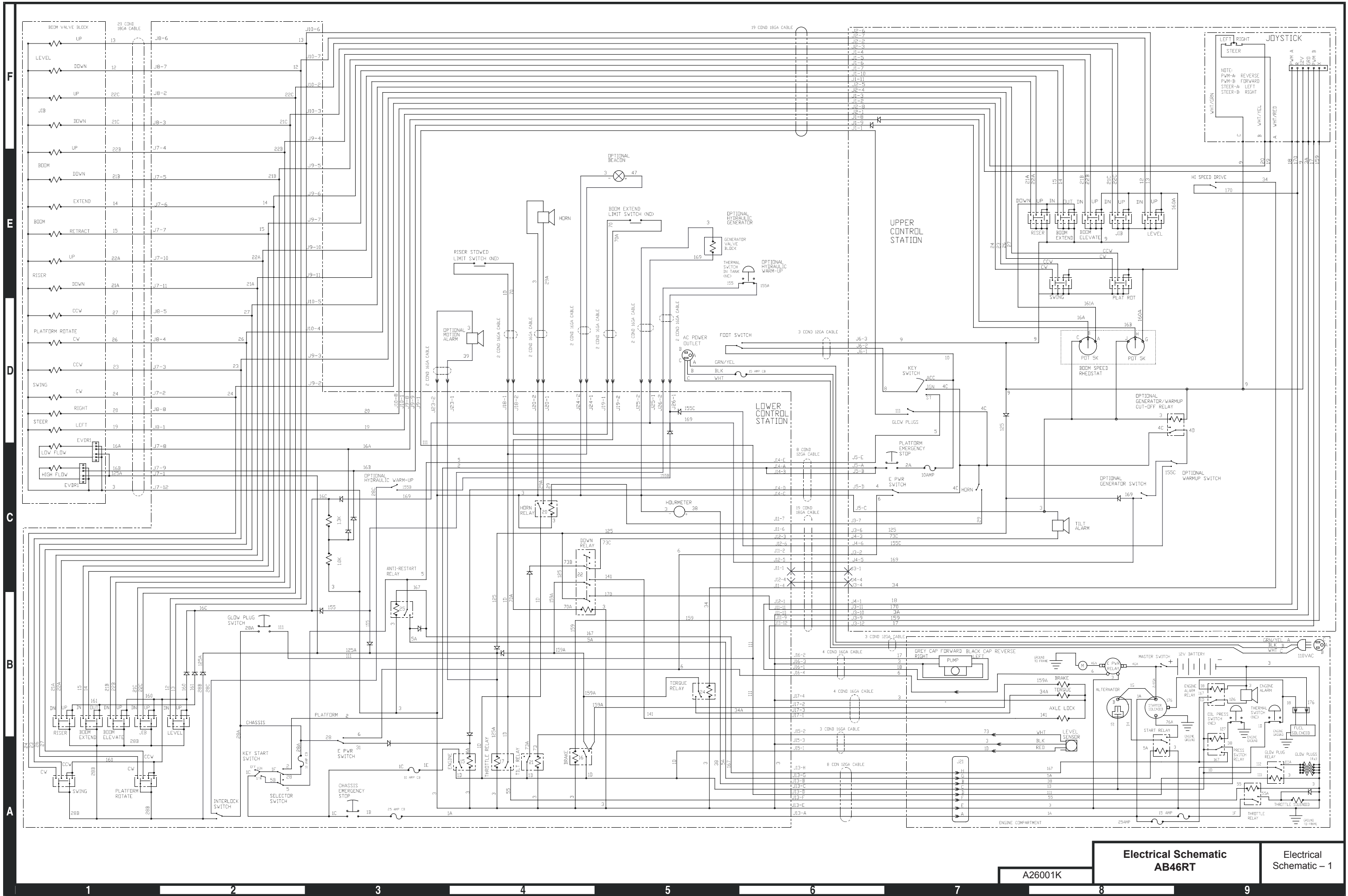
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20. "Opportunity charging", a short partial charge during an extended duty cycle, is a controversial subject. Generally, the practice is a "crutch" to make up for undersized batteries. The correct approach is to install adequate battery capacity. If this is impossible because of lack of space in the battery compartment or extreme operating conditions (24 hour intermittent use, as an example), "opportunity charging" is better than excessive battery discharging. However, the practice can cause batteries to overheat, require more watering and usually will shorten battery life. "Opportunity charging" is a trade off; something to avoid if possible. One charging cycle per day is preferable.
 21. Extreme temperatures can substantially affect battery performance and charging. Cold reduces battery capacity and retards charging. Heat increases water usage and can result in overcharging. Very high temperature can cause "thermal run away" which may lead to an explosion or fire. If extreme temperature is an unavoidable part of an application, consult a battery/charger specialist about ways to deal with the problem.
 22. An overly discharged battery might need to be cycled a few times before it can recover fully. If a battery begins to heat before coming up to a full charge, it might be necessary to discharge the battery and recharge it a few times. The charge and discharge cycle might help the current acceptance of the battery and facilitate its recovery to a usable condition.
 23. Inactivity can be harmful to deep cycle batteries. If they sit for several months, a "boost" charge should be given – more frequently in warm climate (about once a month) than in cold (every 2-3 months).
 24. Never store a battery in a discharged state. The sulfate that forms during discharge can make the battery impossible to recharge fully.

Fastener Torque Chart

| Bolt Grade | SAE Grade 1 or 2 | SAE Grade 5 | SAE Grade 6 | SAE Grade 8 |
|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Marking |  |  |  |  |
| Definition | Indeterminate Quality | Minimum Commercial Quality | Medium Commercial Quality | Best Commercial Quality |
| Material | Low Carbon Steel | Medium Carbon Steel Tempered | Medium Carbon Steel Quenched and Tempered | Medium Carbon Alloy Steel Quenched and Tempered |
| Minimum Tensile Strength | 64,000 psi. | 105,000 psi | 133,000 psi. | 150,000 psi |
| Bolt Size | Recommended Torque Value (ft lbs) | | | |
| 1/4 | 5 | 7 | 10 | 10.5 |
| 5/16 | 9 | 14 | 19 | 22 |
| 3/8 | 15 | 25 | 34 | 37 |
| 7/16 | 24 | 40 | 55 | 60 |
| 1/2 | 37 | 60 | 85 | 92 |
| 9/16 | 53 | 88 | 120 | 132 |
| 5/8 | 74 | 120 | 167 | 180 |
| 3/4 | 120 | 200 | 280 | 296 |
| 7/8 | 190 | 302 | 440 | 473 |
| 1 | 282 | 466 | 660 | 714 |

Torque chart information:

- Consult manufacturers' specific recommendations, when available.
- The chart may be used with both coarse and fine thread fasteners lightly lubricated.
- Increase torque by 20% when multiple tapered tooth (shake proof) lock washers are used.
- The torque values are given in foot-pounds.
- Inch/pound equivalent may be obtained by multiplying by 12.



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Electrical
Schematic – 2

Electrical Schematic
AB46RT

A26001K

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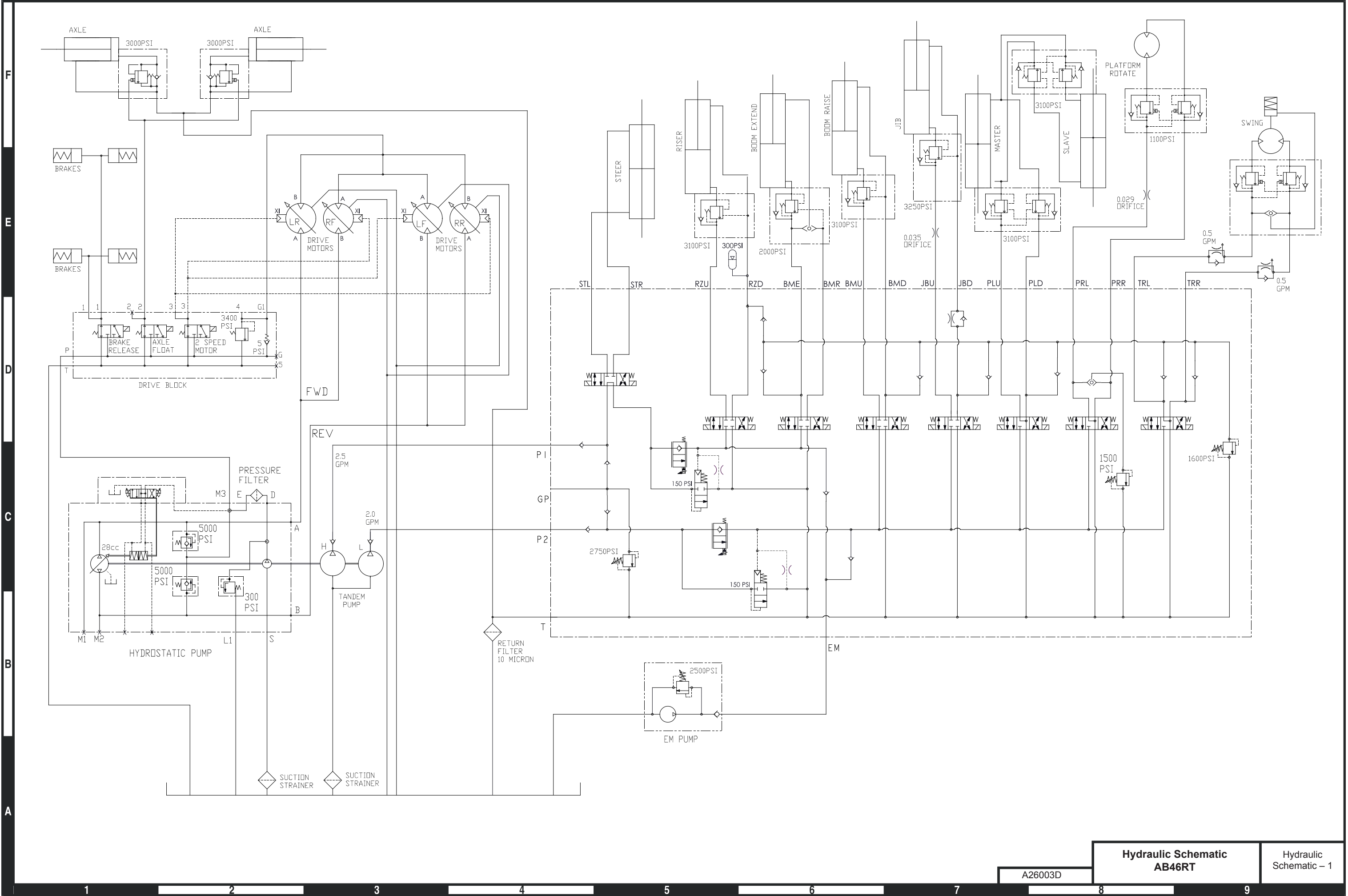
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Hydraulic
Schematic – 2

Hydraulic Schematic
AB46RT

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Local Distributor:

Lokaler Vertiebs Händler:

Distributeur local:

El Distribuidor local:

Il Distributore locale:

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