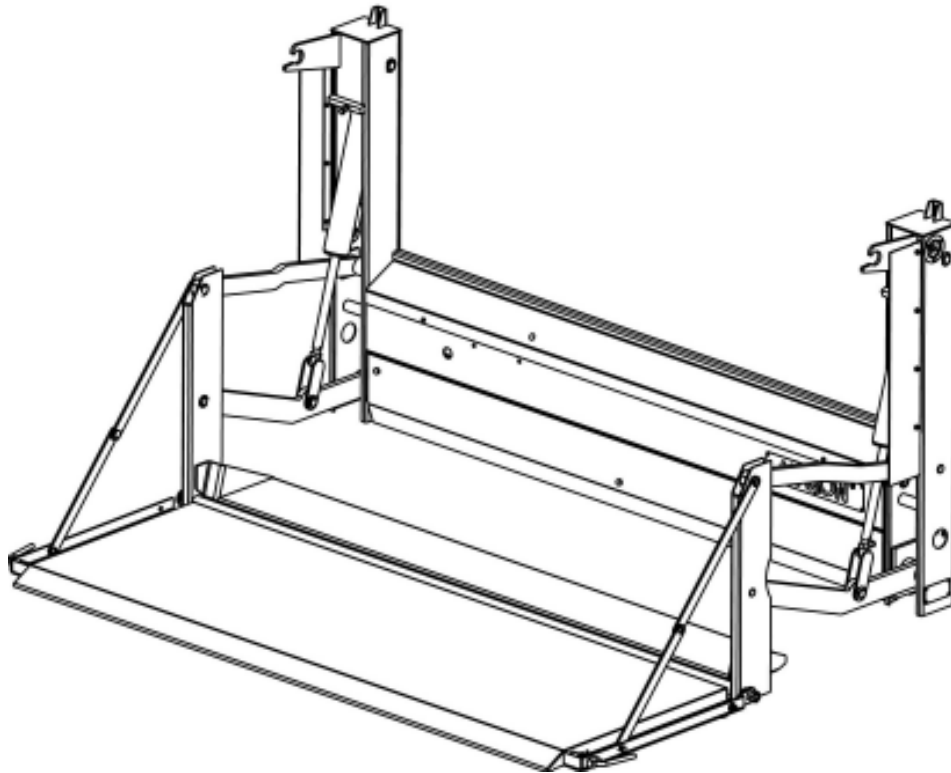


M-00-34
APRIL 2000

OPERATION & MAINTENANCE MANUAL



MM-1650

MAXON[®]
LIFT CORP.

11921 Slauson Avenue.
Santa Fe Springs, CA. 90670
(800) 227-4116

MAXON[®]

LIFT CORP.

11921 Slauson Ave.
Santa Fe Springs, CA. 90670

CUSTOMER SERVICE:

(562) 464-0099

(800) 227-4116

FAX: (888) 771-7713

TECHNICAL SERVICE:

(800) 8-MAXTEK (862-9835)

NOTE: Check with Customer Service Department for updated versions of Manuals on an annual basis.

WARRANTY POLICY & PROCEDURE

NEW LIFTGATE WARRANTY

Term of Warranty: 2 Years from Date of In-Service

Type of Warranty: Full Parts and Labor

MAXON agrees to replace any components which are found to be defective during the first 2 years of service, and will reimburse for labor based on MAXON's Liftgate Warranty Flat Rate Labor Schedule. (Call MAXON Customer Service for a copy).

All claims for warranty must be received within 30 Days of the repair date, and include the following information:

1. Liftgate Model Number
2. Liftgate Serial Number
3. Description of Problem
4. Corrective Action Taken, and Date of Repair.
5. Parts used for Repair, Including MAXON Part Number(s).
6. MAXON R.G.A. # and/or Authorization # if applicable (see below).
7. Person contacted at MAXON if applicable.

PURCHASE PART WARRANTY

Term of Warranty: 1 Year from Date of Purchase Type of Warranty: Part Replacement and Replacement Labor.

MAXON will guarantee all returned genuine replacement parts upon receipt, and inspection of parts and invoice. All Warranty repairs must be performed by an authorized MAXON warranty station.

For major repairs, MAXON's Warranty Department must be notified, and an "Authorization Number" received. Major repairs would generally be considered repairs made to the structural assembly of the liftgate and/or repairs not outlined in the MAXON Liftgate Warranty Flat Rate Schedule.

Major components (i.e. hydraulic pumps, cylinders, valves, or failed structural parts) must be returned, freight pre-paid, prior to the claim being processed. To ensure timely processing of these warranty claims, an R.G.A. (Returned Goods Authorization) number must be obtained from MAXON's Warranty Department prior to the return of any defective part. Defective Parts must be returned within 60 days of the claim date for consideration to:

**Warranty Department, MAXON Lift Corp.
5920 Alameda St., Huntington Park, CA. 90255**

MAXON's warranty policy does not include the reimbursement for travel time; towing; vehicle rental; service calls; fabrication of parts which are available from MAXON; oil; defects due to misuse or abuse; loss of income due to downtime.

MAXON's Flat Rate Labor Schedule times takes into consideration time required for diagnosis of problem.

Warranty and Technical Information is available by calling MAXON's Customer Service Department.

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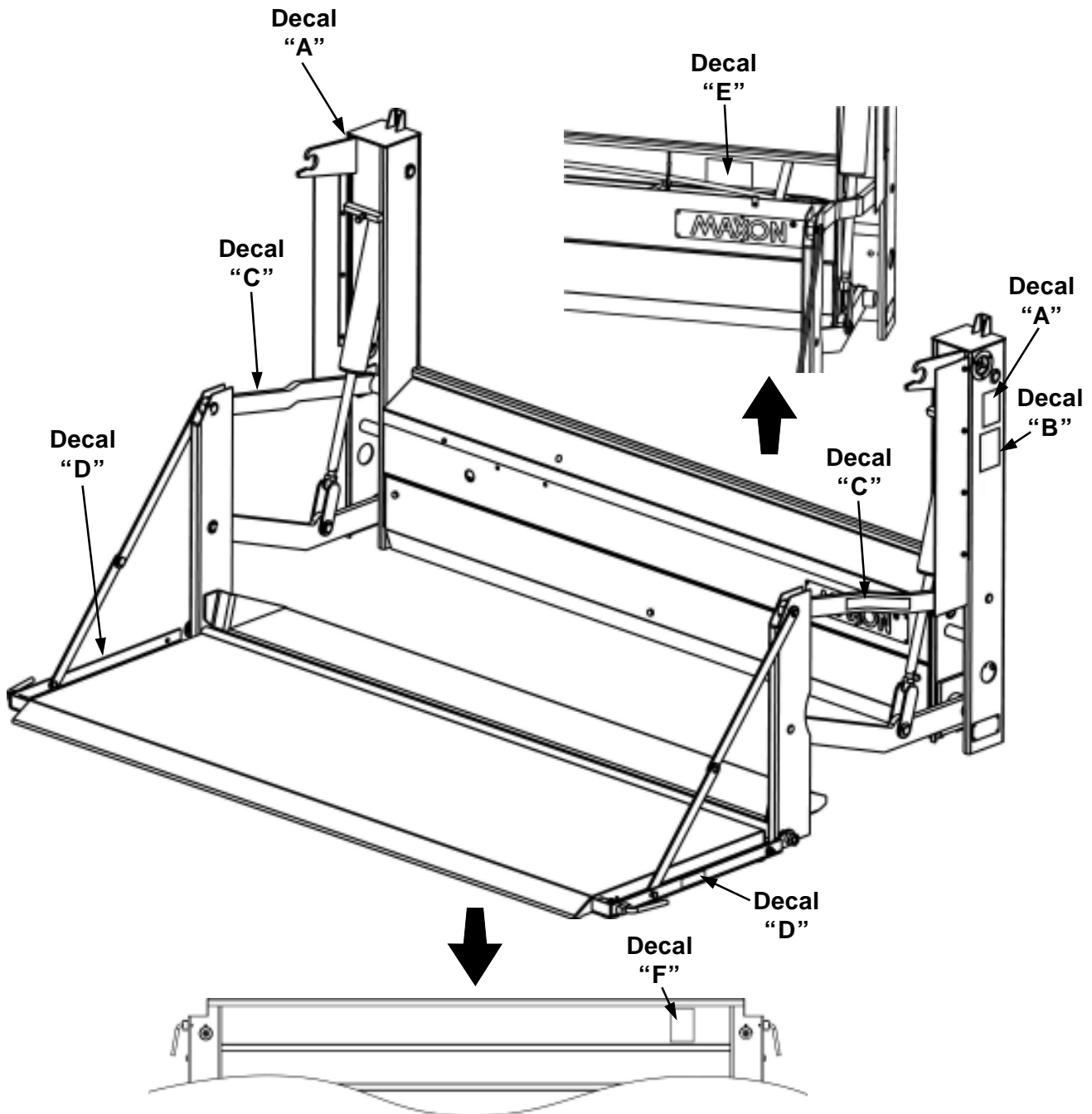
WARNING

1. Read the **Maintenance Manual** and understand it thoroughly before any maintenance of this unit is done.
2. Read the **YELLOW** urgent warning decal on the side of the vehicle close to the unit before operating.
3. If decals are dirty, clean them. If decals are defaced or missing, replace them. **Free replacements** are available from the manufacturer. See information at the end of the Warnings
4. Be aware that the safety and location of other people or objects should be considered before operation of this unit. Stand to one side of platform while operating this unit.
5. Do not stand under, or have any foreign object under the Platform when lowering. **Be sure that the lowering of the Platform and/or Flipover will miss your feet!**
6. Keep fingers, hands, arms, legs, and feet clear of moving parts when operating this unit.
7. If during your maintenance procedure, it becomes necessary to ride the platform, keep your feet and any foreign objects clear of the rear edge of the platform. Otherwise your feet or the foreign objects could become trapped between the edge of the platform and the vehicle bed.
8. Inspect all Roll Pins monthly, to insure that they are not broken. Replace if broken.
9. Inspect all hydraulic hoses and fittings annually. Check for cracks and deterioration, and replace if necessary.
10. **Disconnect battery** when replacing parts or servicing.
11. Do not allow children to ride, play with, or operate this unit.
12. In the event of an emergency while operating the unit, release the toggle switch and the unit will stop immediately.
13. A properly installed Lift should operate smoothly and the only noise during the operation of this unit should be from the Pump Unit during the raising of the Platform. Any scraping, grating or audible indications of rough operation will need investigating. The cause will need resolving before any further deterioration of performance occurs.
14. Use only **Maxon Authorized Parts** for replacement. Replacement parts should be ordered from:

MAXON LIFT CORP. Parts Department
11921 Slauson Ave., Santa Fe Springs, Ca. 90670
Phone: (800) 227-4116

OPERATION SECTION

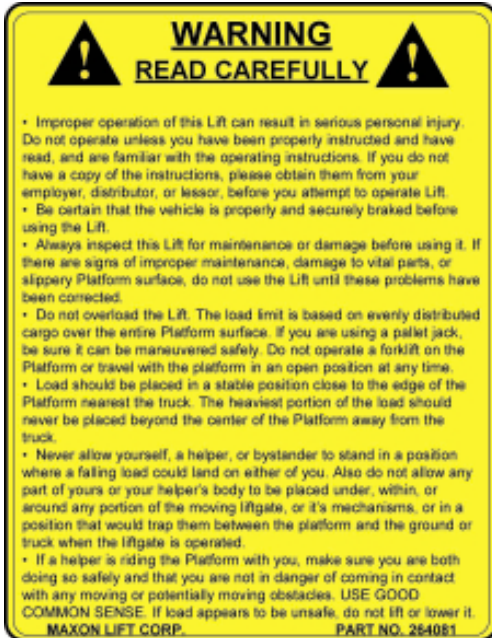
DECALS AND DECAL PLACEMENT



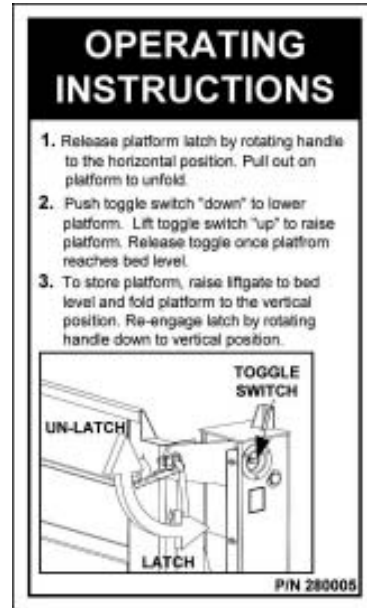
The Maxon liftgate must have all warning and caution decals attached in readable condition. If decals are defaced or missing, replace them. Free replacements are available from Maxon. Contact:

Maxon Lift Corp., Parts Department
11921 Slauson Ave., Santa Fe Springs, Ca.90670
Phone: (800) 227-4116
FAX: (888) 771-7713

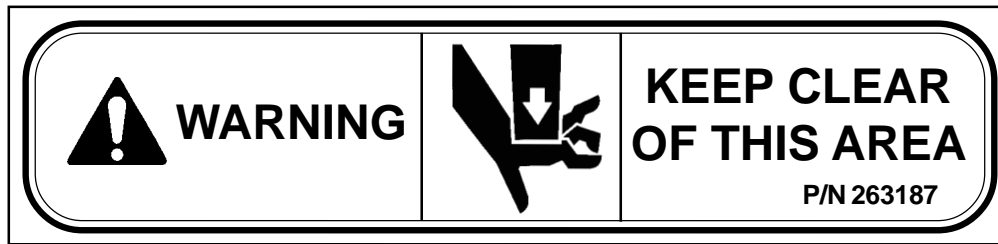
DECALS AND DECAL PLACEMENT



Decal "A" P/N 264081



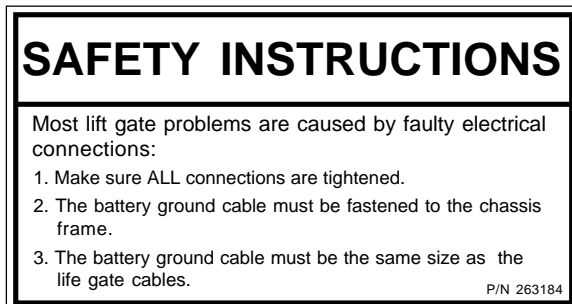
Decal "B" P/N 280005



Decal "C" P/N 263187



Decal "D" P/N 280006



Decal "E" P/N 263184

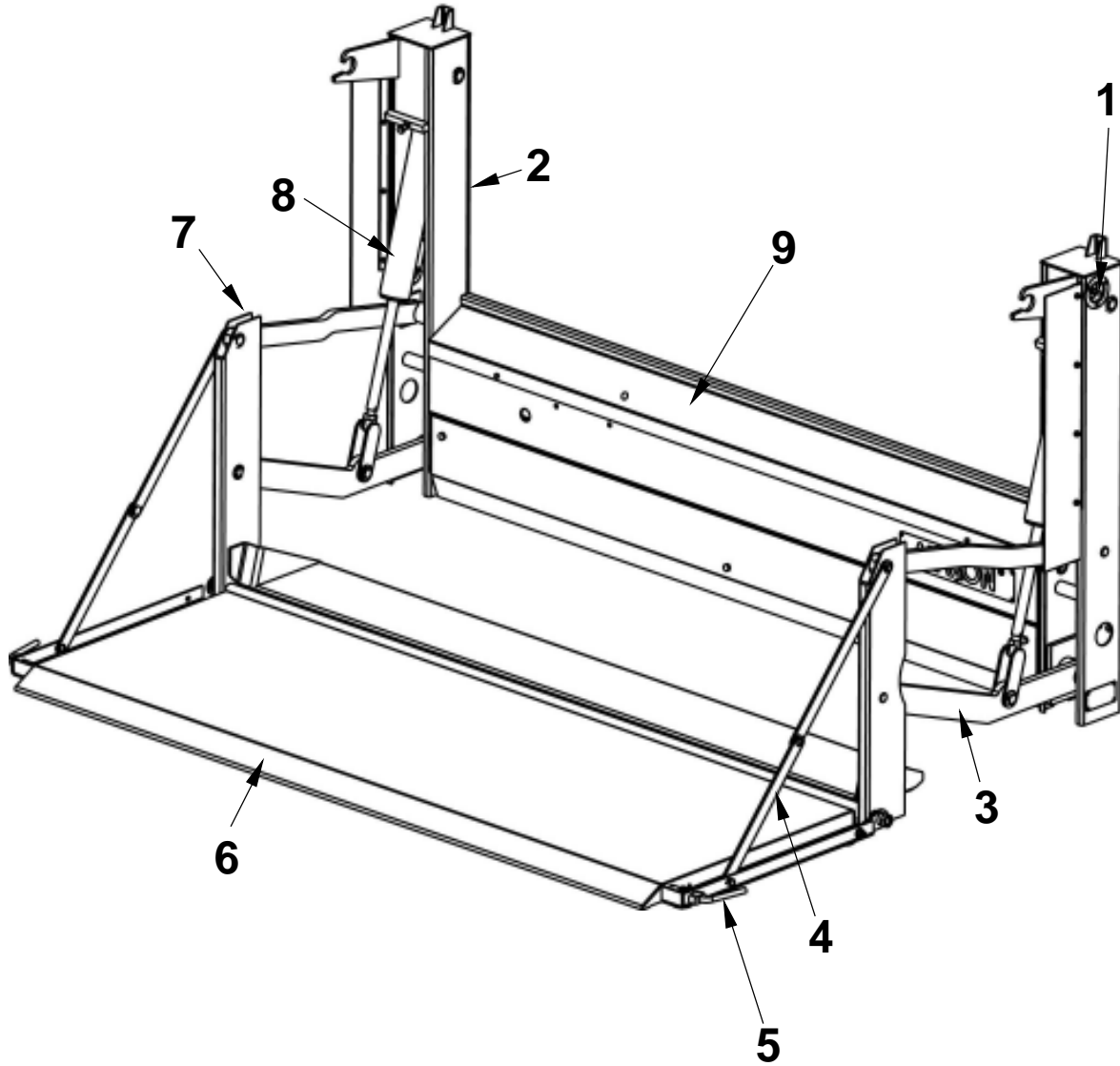


Decal "F" P/N 263188

LIFTGATE TERMINOLOGY

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- 1. Toggle Switch
- 2. Main Frame
- 3. Arm, Lower
- 4. Link Support Assembly
- 5. Lock Handle
- 6. Platform
- 7. Pin Mount Assembly
- 8. Hydraulic Cylinder Assembly
- 9. Main Frame Cover

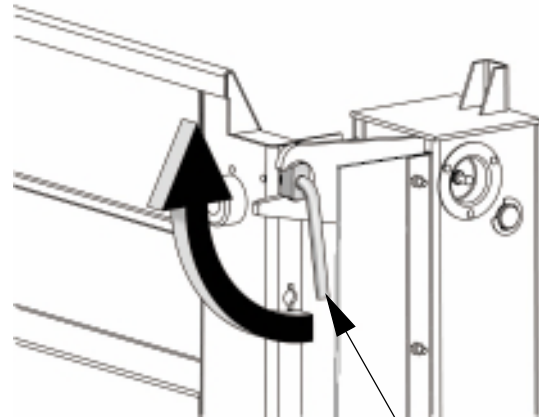
OPERATING INSTRUCTIONS

Fully read and understand this manual and all decals prior to the operation of the liftgate.

1. Release lock by rotating handle to horizontal position. Manually unfold the platform to the horizontal position.

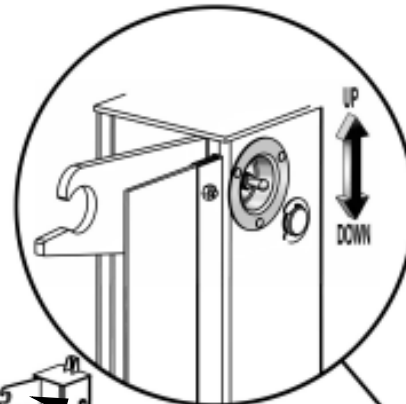
WARNING

Be certain not to allow yours or your helper's feet to be under any portion of the lowering lift.

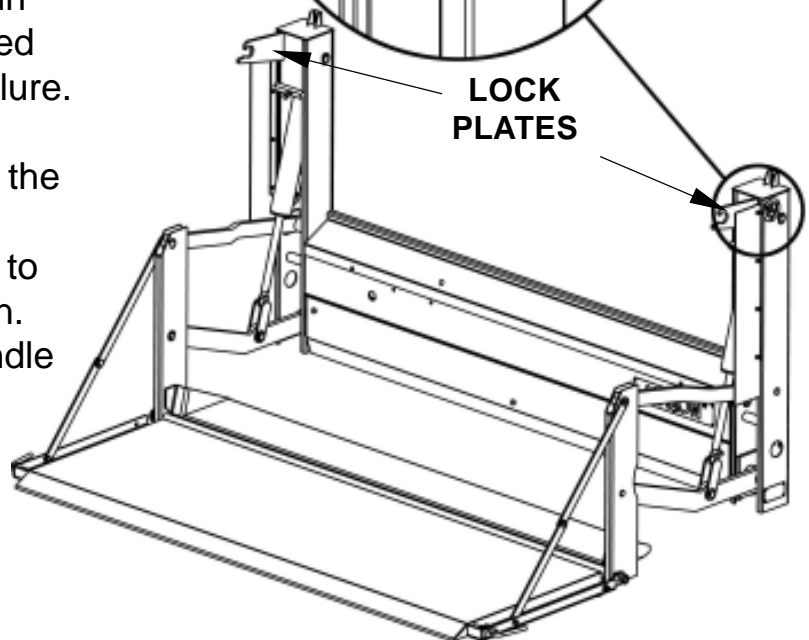


HANDLES

2. To lower platform: Press down on the toggle switch. The platform may be stopped at any height by releasing the toggle switch.
3. To raise platform: Lift up on the toggle switch until platform is level with the bed, then release the switch. Continuing to run the motor after reaching bed height can cause motor failure.
4. To store the liftgate: Raise the platform until it is level with truck bed. Lift the platform to the vertical, closed position. Engage the right Lock Handle with the right Lock Plate.

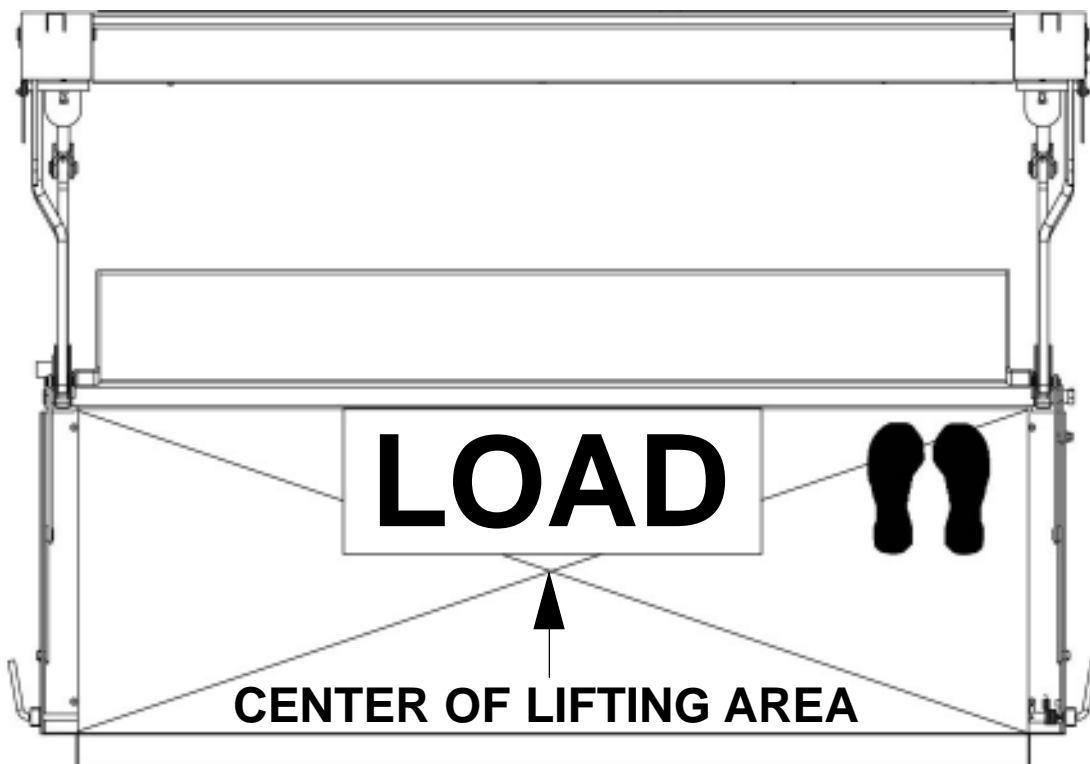


LOCK PLATES



POSITION OF LOAD

All loads must be placed as close to the edge of the Platform nearest to the vehicle floor as possible, with the heaviest part of the load toward the vehicle. No part of any load should be allowed to extend over the edges of the Platform. Do not place unstable loads on the Platform. Do not allow any load to exceed the rated capacity for the unit. If standing on the Platform, do not allow your feet to protrude beyond the edges.



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MAINTENANCE SECTION

SPECIFICATIONS

GENERAL SPECIFICATIONS AND CAPACITIES

Overall Bed Height.....	50"
Overall Width:	
Model -01.....	85.75"
Model -02.....	91.25"
Rated Load Capacity.....	1650 lbs.
Hydraulic Cylinder Size.....	2-1/2" Dia Bore x 18.25" Stroke
Pump/Motor Reservoir Capacity.....	228 in. ³
Pump Operating Pressure.....	1250 psi max.
Electrical System.....	12 volt, 180 amp max draw @ 1250 psi

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PERIODIC MAINTENANCE CHECKLIST

Annually

Visually check the complete unit for excessive wear, worn parts or broken welds. Check all Hinge Pins for excessive wear or broken welds. For parts replacement, see the Assembly Breakdown Drawings.

Six Months

Visually check the Platform Hinge Pins for excessive wear or broken welds. For parts replacement, see the Assembly Breakdown Drawings.

Quarterly

Check the oil in the Pump Reservoir. The oil should be Grade ISO-(32) Hydraulic Fluid.
***See below for Cold Weather operation.**

Check Hoses and Fittings for scuffing and leaks. Replace if necessary.

Check the electrical wiring for worn insulation, and the terminals for corrosion and secure fit.

Check all bolts for tightness.

Check that all Warning Decals are in place and readable.

Check that all roll pins are properly installed. Replace if necessary.

* COLD WEATHER OPERATION

OIL SPECIFICATIONS:

Grade ISO-(32)
Gravity, API - 29.5 Degrees
Pour Point, F- (-54 Degrees)

VISCOSITY:

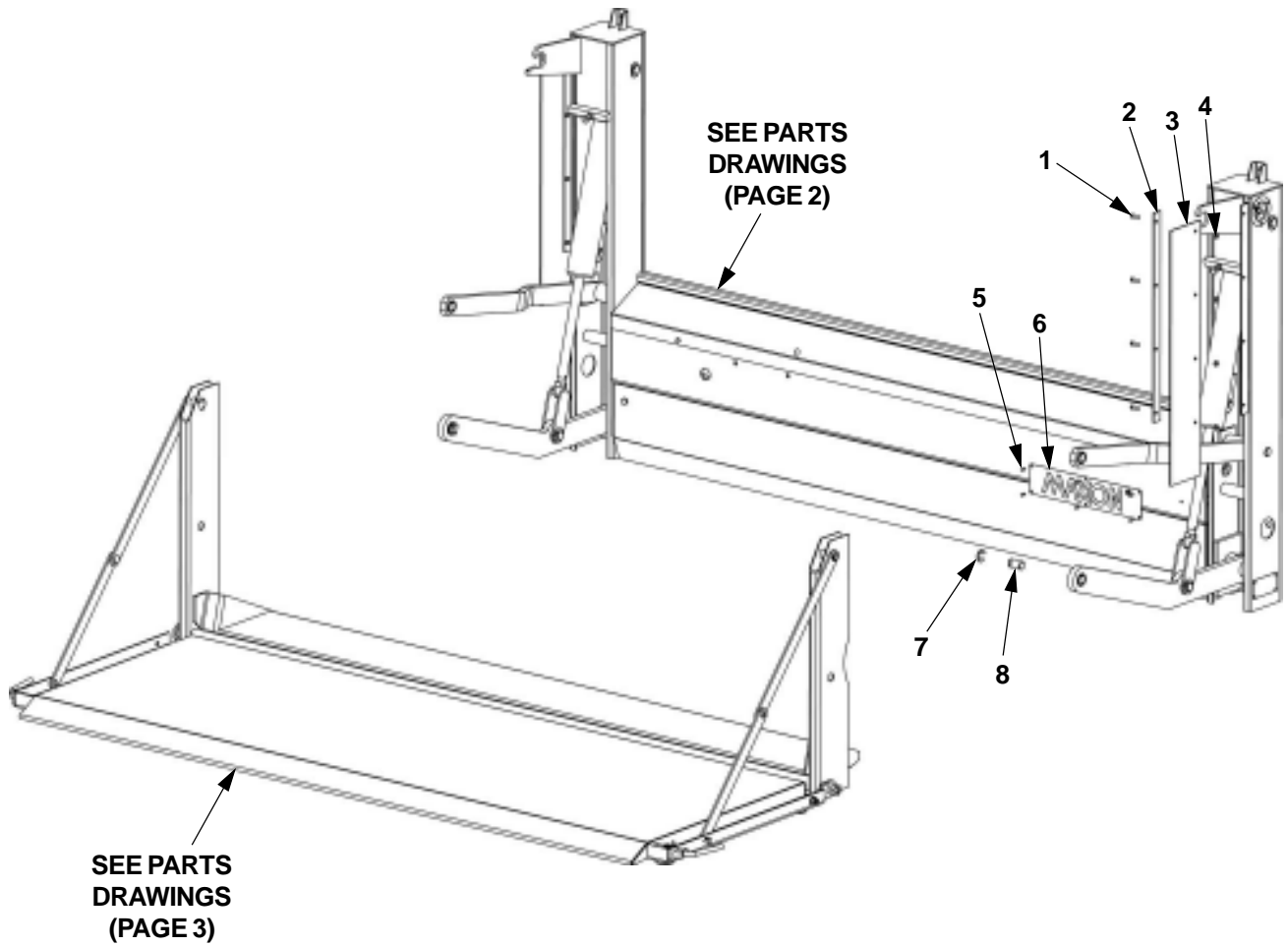
@ 40 Degrees C - 31.2 cSt
@ 100 Degrees C - 6.2 cSt
VISCOSITY INDEX - 154 VI
Flash Point, F - 325 Degrees

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PARTS BREAKDOWN DRAWINGS

PARTS DRAWINGS (PAGE 1)

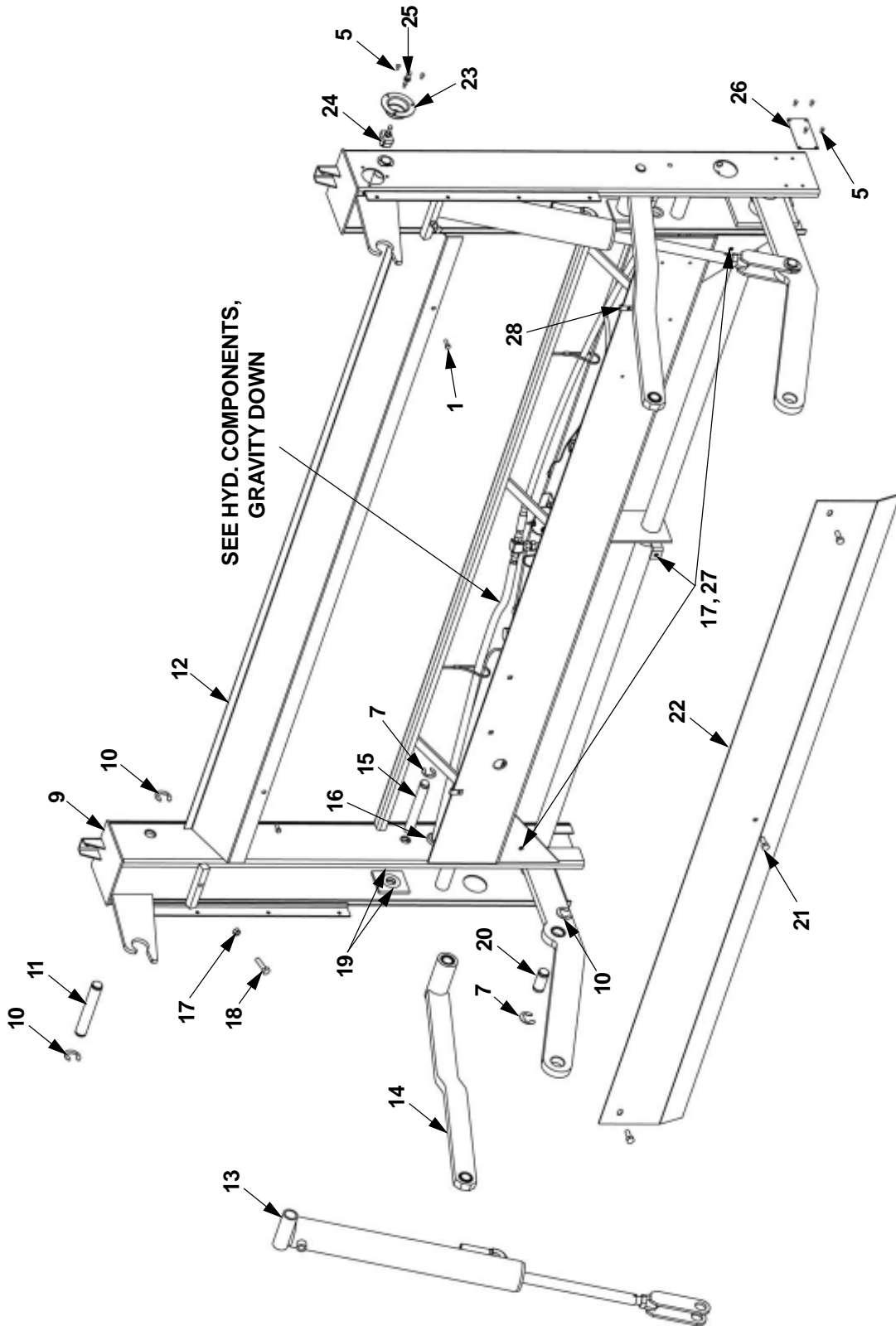


ITEM	QTY.	PART NO.	DESCRIPTION
1	10	900004-2	CAP SCREW, 1/4-20 x 3/4" LG.
2	2	264348	FLAT BAR BRACE
3	2	264347	WEAR STRIP
4	8	901011-1	NUT, 1/4-20 UNC
5	13	904005-1	RIVET, 3/16"
6	1	050175	MAXON PLATE
7	6	905138-11	E-RING, 7/8"
8	2	263574	PIN, LOWER ARM

PARTS DRAWINGS (PAGE 2)

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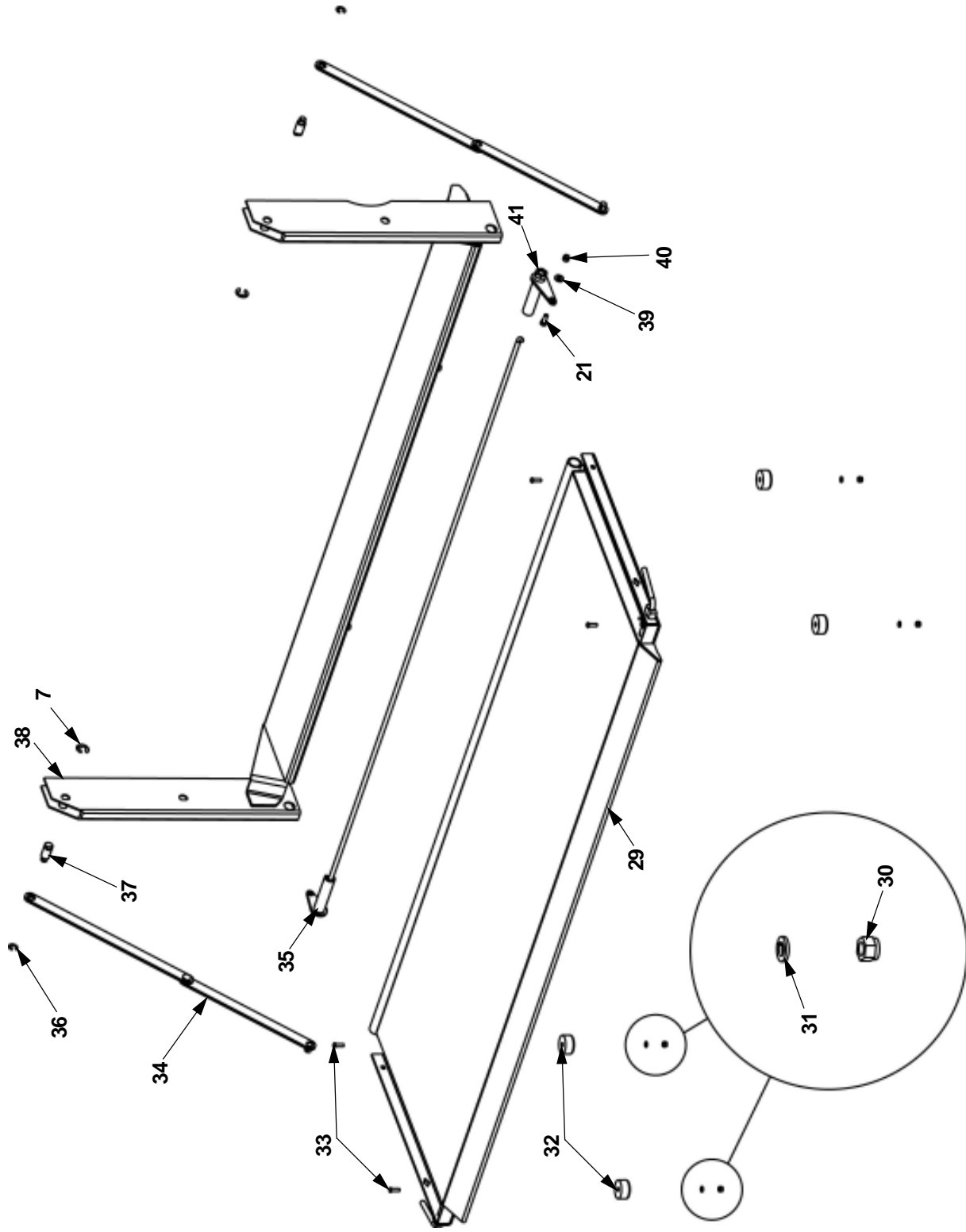
PARTS DRAWINGS (PAGE 2)

ITEM	QTY.	PART NO.	DESCRIPTION
9	1	263700-01	MAINFRAME ASSEMBLY 91" WIDE
		263700-02	MAINFRAME ASSEMBLY 80" WIDE
10	8	905138-13	E-RING, 1"
11	2	263580	PIN, UPPER CYLINDER
12	1	264343-01	COVER CENTRAL HOUSING, 91" WIDE
		264343-02	COVER CENTRAL HOUSING, 80" WIDE
13	2	264442	CYLINDER ASSEMBLY
14	2	263559	UPPER PARALLEL ARM ASSEMBLY
15	2	263578	PIN, UPPER PARALLEL ARM
16	3	203216	RUBBER GROMMET, 1-3/4"
17	5	901011-5	NUT, 3/8-16
18	2	900014-6	CAP SCREW, 3/8-16 x 1.5 LG. ZINC
19	4	905146-01	FIBERGLIDE THRUST BEARING
20	2	264351	PIN, CYLINDER BOTTOM
21	4	900014-4	CAP SCREW, 3/8-16 x 1" LG. ZINC
22	1	263695-01	HOLDER, TRUCK REAR LIGHTS
		263695-02	HOLDER, TRUCK REAR LIGHTS
23	1	226598	PLATE, RECESSED SWITCH
24	1	264443	ELECTRICAL CABLE & SWITCH ASSEMBLY
25	1	250876	BOOT, RUBBER SEAL SWITCH
26	1	050178	PLATE, MAXON SERIAL
27	3	902011-4	LOCK WASHER 3/8"
28	2	901018	U-NUT

PARTS DRAWINGS (PAGE 3)

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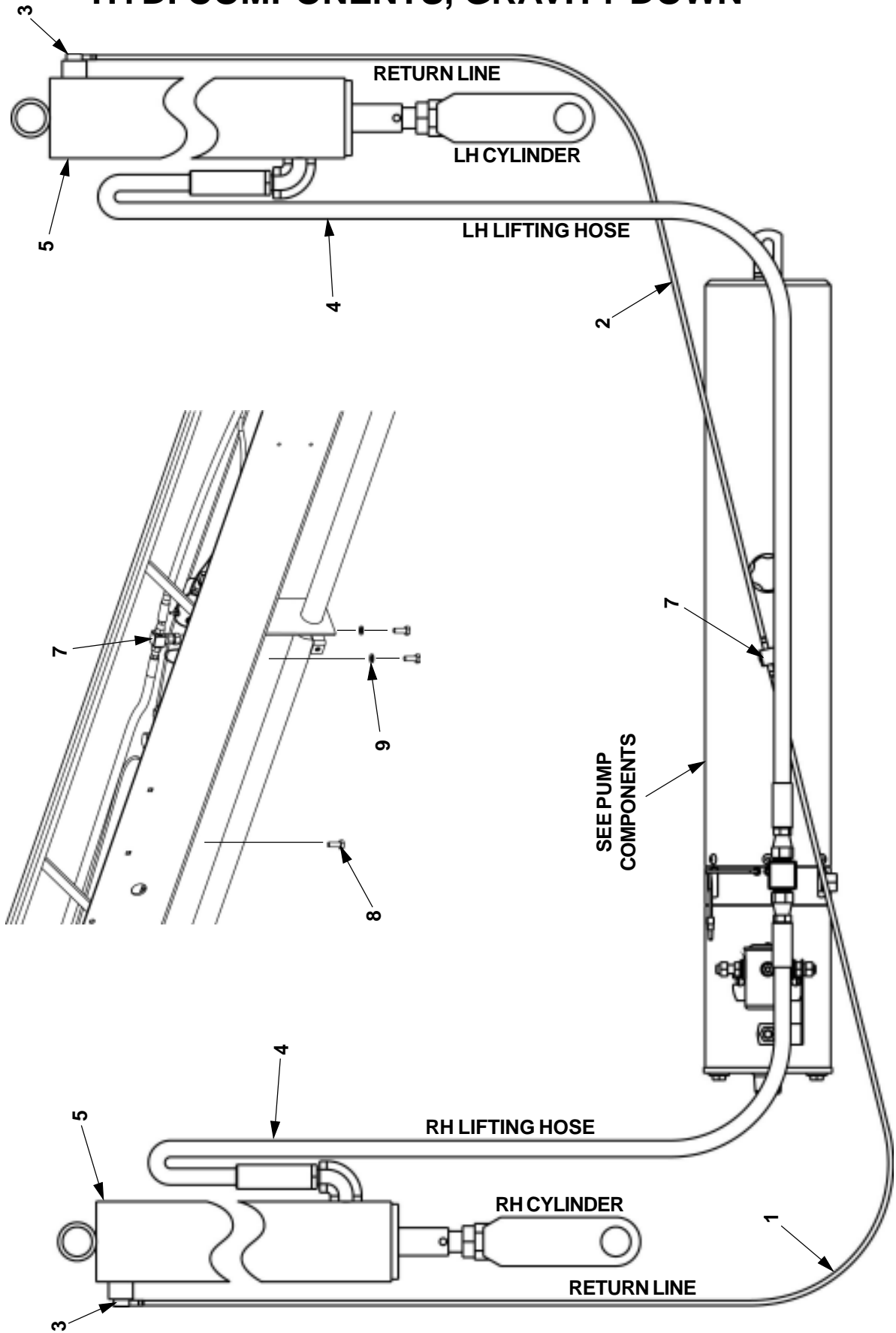


PARTS DRAWINGS (PAGE 3)

ITEM	QTY.	PART NO.	DESCRIPTION
29	1	263565-01	PLATFORM WELDMENT
30	4	901001	NUT, NYLON 5/16-18 ZINC
31	4	902011-3	LOCK WASHER 5/16" ZINC
32	4	253516	RUBBER BUMPER 2"
33	4	900001-3	BUTTON SCREW, 5/16-18 x 1" ALLOY
34	2	263560	LINK ASSEMBLY
35	1	264339-01	TORSION BAR WELDMENT
36	2	905138-08	E-RING, 5/8"
37	2	263579	PIN, UPPER LINK
38	1	263571-01	PIN MOUNT ASSEMBLY
39	1	902001-1	WASHER 3/8"
40	2	901002	NUT, NYLON 3/8-16 ZINC
41	1	264340	PIN WELDMENT

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HYD. COMPONENTS, GRAVITY DOWN



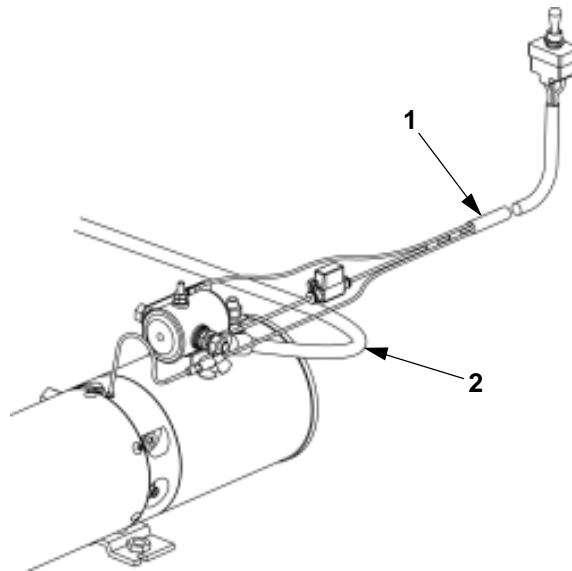
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HYD. COMPONENTS, GRAVITY DOWN

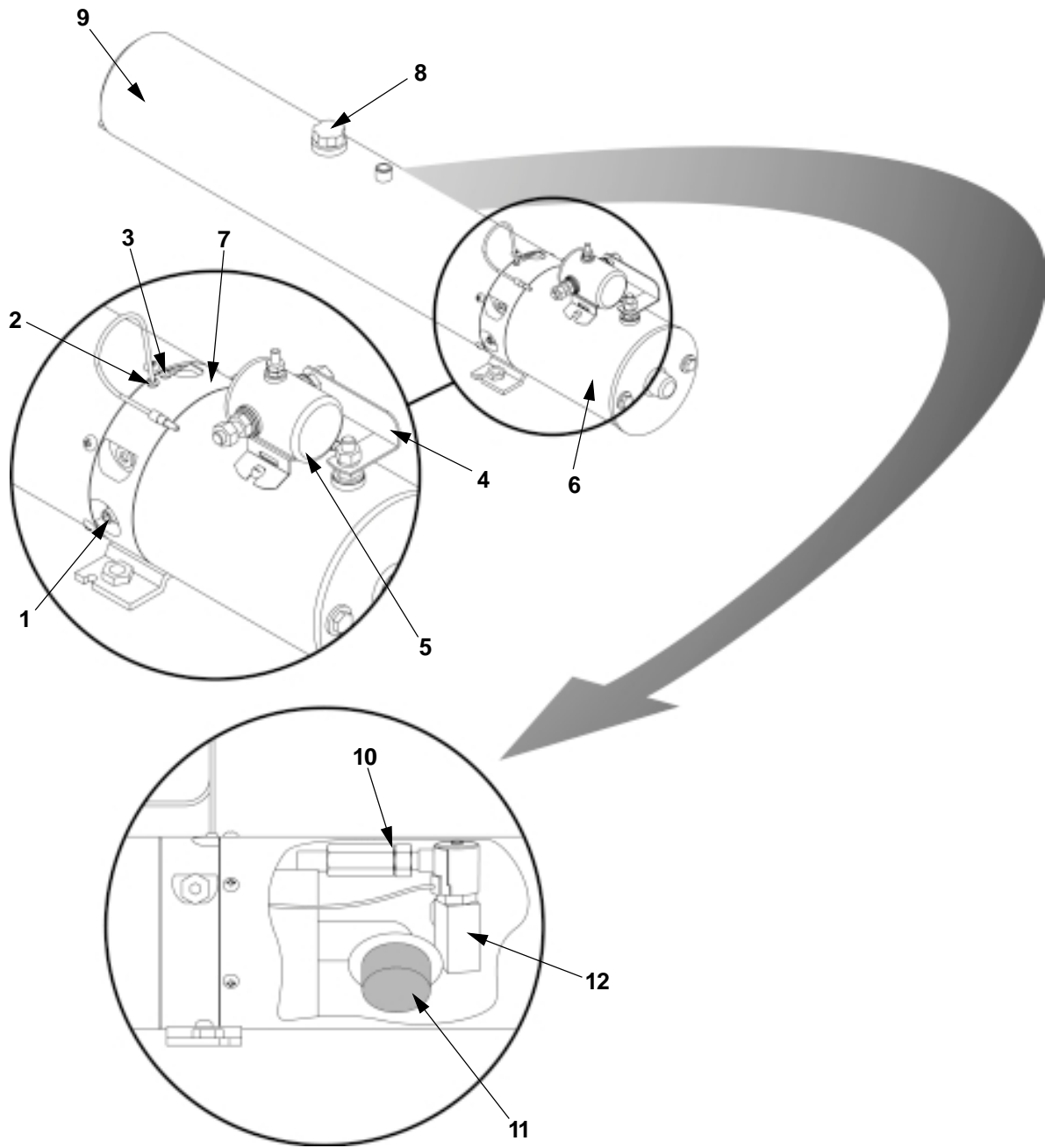
ITEM	QTY.	PART NO.	DESCRIPTION
1	1	224370-11	HOSE, 87" LG.
2	1	224370-13	HOSE , 75" LG
3	2	264349	ELBOW, 90°, 1/4" NPT
4	2	264440	HOSE, LIFTING
5	2	264442	CYLINDER ASSEMBLY
6	1	905193	TEE BRANCH NUT, SWIVEL,SAE 37°, 3/8" MF
7	1	905188	TEE BRANCH, 1/8" NPT, 1/4" HOSE
8	3	900014-04	CAP SCREW, 3/8-16 x 1" LG. ZINC
9	2	902011-4	LOCK WASHER, 3/8"

ELECTRICAL COMPONENTS



ITEM	QTY.	PART NO.	DESCRIPTION
1	1	264443	ELECTRICAL CABLE & SWITCH ASSEMBLY
2	1	263551-02	CABLE ASSEMBLY 4 GA, 29 FT

PUMP COMPONENTS



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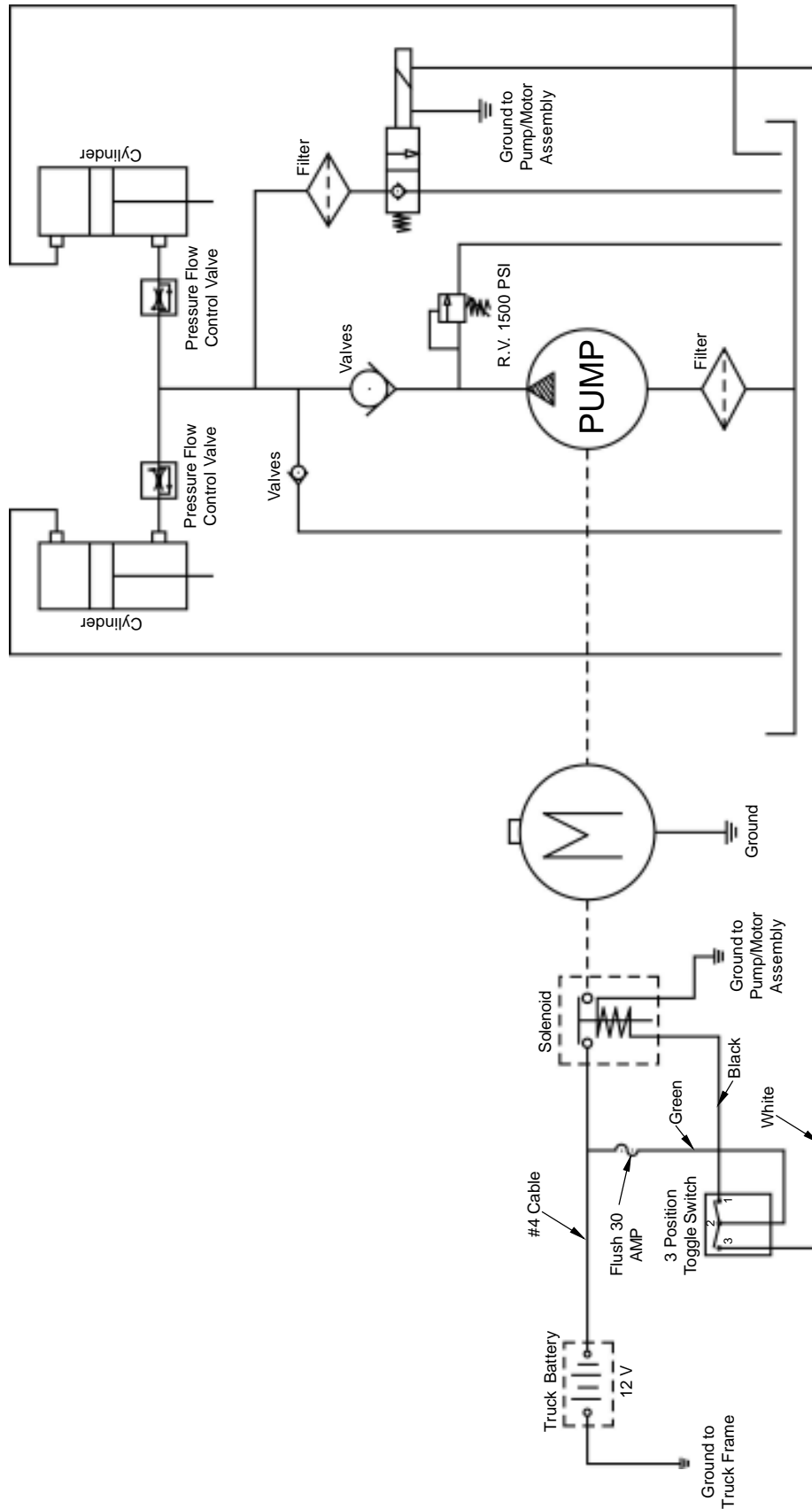
PUMP COMPONENTS

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	280178	ADJUSTABLE RELIEF VALVE
2	1	280177	BUSHING
3	1	280452	PLUG
4	1	280171	STRAP
5	1	280172	STARTER SOLENOID
6	1	280170	MOTOR
7	1	280165	PUMP
8	1	280175	PLUG
9	1	280176	RESERVOIR
10	1	280173	FILTER ASSEMBLY
11	1	280168	FILTER
12	1	280167	VALVE ASSEMBLY

ELECTRICAL AND HYDRAULIC SCHEMATIC

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LIQUID SEALANT APPLICATION

1. Clean all threads with a soft brush and a suitable cleaning solvent.
2. Dry threads thoroughly with compressed air or shop towel.
3. Apply the Liquid Sealant (Compound PLS 2), to the external threads of the Male Connector.
4. Assemble the fitting and torque it to the prescribed value.
5. Check for leakage. If leakage exists, remove the fitting and return to Step # 1.
6. If fitting is loosened or removed, return to Step # 1.

