



11921 Slauson Ave. Santa Fe Springs, CA. 90670

CUSTOMER SERVICE: TELEPHONE (562) 464-0099 TOLL FREE (800) 227-4116 FAX: (888) 771-7713

NOTE: For latest version of all Manuals (and replacements), download the Manuals from Maxon's website at www.maxonlift.com.

WARRANTY/ RMA POLICY & PROCEDURE

LIFTGATE WARRANTY

Type of Warranty: Full Parts and Labor

Standard Liftgates - 2 years from ship date or 6,000 cycles Premium Liftgates - 2 years from ship date or 10,000 cycles Term of Warranty:

This warranty shall not apply unless the product is installed, operated and maintained in accordance with MAXON Lift's specifications as set forth in MAXON Lift's Installation, Operation and Maintenance manuals. This warranty does not cover normal wear, maintenance or adjustments, damage or malfunction caused by improper handling, installation, abuse, misuse, negligence, or carelessness of operation. In addition, this warranty does not cover equipment that has had unauthorized modifications or alterations made to the product.

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 Schedule. (Copy of the Flat Rate is available at www.maxonlift.com.)

All warranty repairs must be performed by an authorized MAXON warranty facility. For any repairs that may exceed \$500, including parts and labor, MAXON's Technical Service Department must be notified and an "Authorization Number" obtained.

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

- 1. Liftgate Model Number and Serial Number
- 2. The End User must be referenced on the claim 3. Detailed Description of Problem
- Corrective Action Taken, and Date of Repair
- 5. Parts used for Repair, Including MAXON Part Number(s)
- 6. MAXON R.M.A. # and/or Authorization # if applicable (see below) Person contacted at MAXON if applicable 7
- 8. Claim must show detailed information i.e. Labor rate and hours of work performed

Warranty claims can also be placed online at www.maxonlift.com. Online claims will be given priority processing.

All claims for warranty will be denied if paperwork has not been received or claim submitted via Maxon website for processing by MAXON's Warranty Department within 30 days of repair date

All components may be subject to return for inspection, prior to the claim being processed. MAXON products may not be returned without prior written approval from MAXON's Technical Service Department. Returns must be accompanied by a copy of the original invoice or reference with original invoice number and are subject to a credit deduction to cover handling charges and any necessary reconditioning costs. **Unauthorized returns will be** refused and will become the responsibility of the returnee.

Any goods being returned to MAXON Lift must be pre-approved for return, and have the R.M.A. number written on the outside of the package in plain view, and returned freight prepaid. All returns are subject to a 15% handling charge if not accompanied by a detailed packing list. Returned parts are subject to no credit and returned back to the customer. Defective parts requested for return must be returned within 30 days of the claim date for consideration to:

MAXON Lift Corp. 10321 Greenleaf Ave., Santa Fe Springs, CA 90670 Attn: RMA#__

MAXON's warranty policy does not include the reimbursement for travel time, towing, vehicle rental, service calls, oil, batteries or loss of income due to downtime. Fabrication or use of non Maxon parts, which are available from MAXON, are also not covered.

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

All Liftgates returned are subject to inspection and a 15% restocking fee. Any returned Liftgates or components that have been installed or not returned in new condition will be subject to an additional reworking charge, which will be based upon the labor and material cost required to return the Liftgate or component to new condition.

PURCHASE PART WARRANTY

Term of Warranty: 1 Year from Date of Purchase.

Type of Warranty: Part replacement only. MAXON will guarantee all returned genuine MAXON replacement parts upon receipt and inspection of parts and original invoice.

All warranty replacements parts will be sent out via ground freight. If a rush shipment is requested, all freight charges will be billed to the requesting oartv.

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SUMMARY OF CHANGES: M-13-03, REVISION D

| PAGE | DESCRIPTION OF CHANGE |
|-------|--|
| COVER | Updated REV and date of release. |
| 6 | Removed WARNING & decal about welding on galvanized steel. Added reference to American Welding Society (AWS) practices D19.0, Welding Zinc-Coated Steel. |
| 13 | Combined EXXON & MOBIL oils on the same row with updated part numbers. |
| 23 | Hydraulic schematic is updated to show current Bucher pump. |

Comply with the following WARNINGS and SAFETY INSTRUCTIONS while maintaining Liftgates. See Operation Manual for operating safety requirements.

- Do not stand, or allow obstructions, under the platform when lowering the Liftgate. **Be sure your** feet are clear of the Liftgate.
- Keep fingers, hands, arms, legs, and feet clear of moving Liftgate parts (and platform edges) when operating the Liftgate.
- Correctly stow platform when not in use. Extended platforms could create a hazard for people and vehicles passing by.
- Disconnect Liftgate power cable from battery before repairing or servicing Liftgate.
- If it is necessary to stand on the platform while maintaining the Liftgate, keep your feet and any objects clear of the inboard edge of the platform. Your feet or objects on the platform can become trapped between the platform and the Liftgate extension plate.
- Recommended practices for welding on steel parts are contained in the current AWS (American Welding Society) D1.1 Structural Welding Code - Steel. Damage to Liftgate and/or vehicle, and personal injury could result from welds that are done incorrectly.
- Recommended practices for welding on aluminum parts are contained in the current AWS (American Welding Society) D1.2 Structural Welding Code - Aluminum. Damage to Liftgate and/or vehicle, and personal injury could result from welds that are done incorrectly.
- Recommended practices for welding galvanized steel are contained in the current AWS (American Welding Society) D19.0 Welding Zinc-Coated Steel. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.

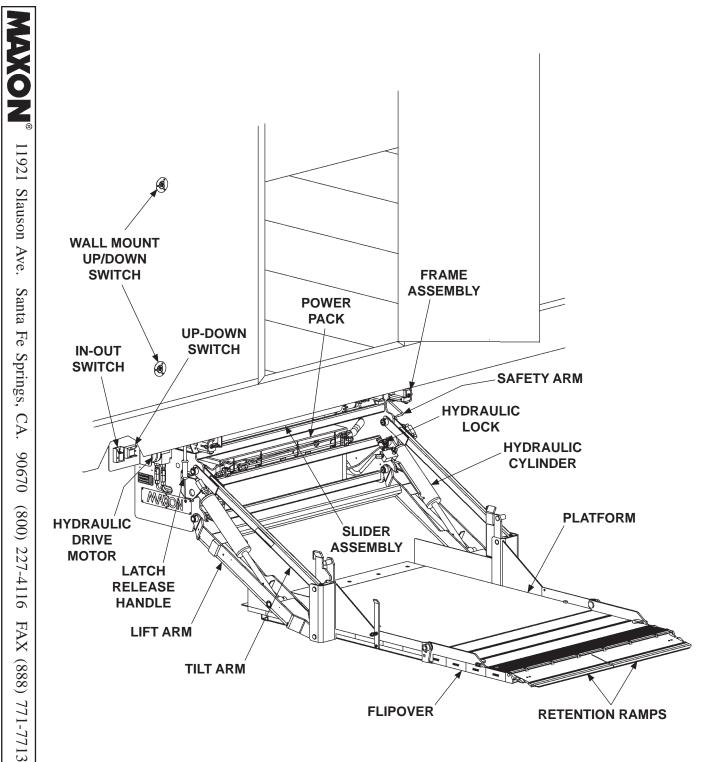
SAFETY INSTRUCTIONS

- Read and understand the instructions in this **Maintenance Manual** before performing maintenance on the Liftgate.
- Before operating the Liftgate, read and understand the operating instructions in **Operation Manual**.
- Comply with all **WARNING** and instruction decals attached to the Liftgate.
- Keep decals clean and legible. If decals are illegible or missing, replace them. Free replacement decals are available from **Maxon Customer Service**.
- Consider the safety and location of bystanders and location of nearby objects when operating the Liftgate. Stand to one side of the platform while operating the Liftgate.
- Do not allow untrained persons to operate the Liftgate.
- Wear appropriate safety equipment such as protective eyeglasses, faceshield and clothing while performing maintenance on the Liftgate and handling the battery. Debris from drilling and contact with battery acid may injure unprotected eyes and skin.
- Be careful working by an automotive type battery. Make sure the work area is well ventilated and there are no flames or sparks near the battery. Never lay objects on the battery that can short the terminals together. If battery acid gets in your eyes, immediately seek first aid. If acid gets on your skin, immediately wash it off with soap and water.
- If an emergency situation arises (vehicle or Liftgate) while operating the Liftgate, release the control switch to stop the Liftgate.
- A correctly installed Liftgate operates smoothly and reasonably quiet. The only noticeable noise during operation comes from the power unit while the platform is raised. Listen for scraping, grating and binding noises and correct the problem before continuing to operate Liftgate.
- Use only **Maxon Authorized Parts** for replacement parts. Provide Liftgate model and serial number information with your parts order. Order replacement parts from:

MAXON LIFT CORP. Customer Service 11921 Slauson Ave., Santa Fe Springs, CA 90670

Online: www.maxonlift.com Express Parts Ordering: Phone (800) 227-4116 ext. 4345 Email: Ask your Customer Service representative

LIFTGATE TERMINOLOGY



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PERIODIC MAINTENANCE PERIODIC MAINTENANCE CHECKS

Never operate the Liftgate if parts are loose or missing.

NOTE: Make sure vehicle is parked on level ground while performing the maintenance checks.

Quarterly or 1250 Cycles (whichever occurs first)

Check the hydraulic fluid level in the pump reservoir. Refer to the **CHECKING HYDRAULIC FLUID** procedure in the **PERIODIC MAINTENANCE** section.

If hydraulic fluid appears contaminated, refer to the **CHANGING HYDRAULIC FLUID** procedure in the **PERIODIC MAINTENANCE** section.

Keep track of the grade of hydraulic fluid in the pump reservoir and never mix two different grades of fluid.

Check all hoses and fittings for chafing and fluid leaks. Tighten loose fittings or replace parts as required.

Check electrical wiring for chafing and make sure wiring connections are tight and free of corrosion. Use dielectric grease to protect electrical connections.

Check that all **WARNING and instruction decals** are in place. Also, make sure decals are legible, clean and undamaged.

Check that all bolts, nuts, and roll pins are in place. Make sure roll pins protrude evenly from both sides of hinge pin collar. Replace fasteners and roll pins if necessary.

Check for debris and dirt buildup on the slider rollers and rails. Clean out any buildup of dirt and debris.

CAUTION

Damaged cylinder seals and contaminated hydraulic fluid can result from painting the polished portion of the cylinder rod. To prevent damage, protect the exposed polished portion of the cylinder rod while painting.

Check for rust and oily surfaces on Liftgate. If there is rust or oil on Liftgate, clean it off. Touch up the paint where bare metal is showing. MAXON recommends using the aluminum primer touchup paint kit, P/N 908134-01.

Semi-annually or 2500 Cycles (whichever occurs first)

Visually check the platform hinge pins for excessive wear and broken welds. See **PARTS BREAKDOWN** section for replacement parts. Also, do the **Quarterly or 1250 Cycles** maintenance checks.

PERIODIC MAINTENANCE CHECKLIST

NOTE: Make sure vehicle is parked on level ground while performing maintenance checks.

Quarterly or 1250 Cycles (whichever occurs first)

- □ Check the level and condition of the hydraulic fluid.
- □ Visually check all hoses and fittings for chafing and fluid leaks. Tighten loose fittings or replace parts as required.
- □ Check electrical wiring for chafing and make sure wiring connections are tight and free of corrosion. Use dielectric grease to protect electrical connections.
- □ Check that all **WARNING and instruction decals** are in place. Also, make sure decals are legible, clean, and undamaged.
- □ Check that all bolts, nuts, and roll pins are in place. Make sure roll pins protrude evenly from both sides of hinge pin collar. Replace fasteners and roll pins if necessary.
- Check for debris and dirt buildup on the slider rollers and rails. Clean out any buildup of dirt and debris.
- □ Check for rust and oily surfaces on Liftgate. If there is rust or oil on Liftgate or if the Liftgate is dirty, clean it off. Touch up the paint where bare metal is showing. Refer to the paint system **CAUTION** and recommended touchup kit on the preceding page.

Semi-annually or 2500 Cycles (whichever occurs first)

- □ Visually check the platform hinge pins for excessive wear and broken welds.
- Do the Quarterly or 1250 Cycles Checks on this checklist.

PERIODIC MAINTENANCE CHECKING HYDRAULIC FLUID

CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination.

NOTE: Use correct grade of hydraulic fluid for your location.

+50 to +120 Degrees F - Grade ISO 32 Below + 70 Degrees F - Grade ISO 15 or MIL-H-5606 See TABLES 13-1 & 13-2 for recommended brands.

- 1. Unstow and lower Liftgate to ground.
- 2. Unlatch and remove pump cover (FIG. 12-1).
- Check the hydraulic fluid level in reservoir as follows. With Liftgate on ground, level should be as shown in FIG. 13-1.
 LATCHES (2 PLACES)

NOTE: If the hydraulic fluid in the reservoir is contaminated, do the CHANGING HYDRAULIC FLUID procedure in this section.

CAUTION

Do not fill reservoir above the FULL mark. Hydraulic fluid can overflow from the reservoir.

PUMP COVER

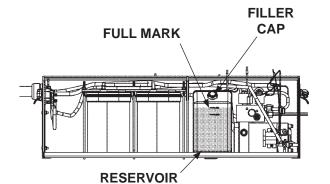
FIG. 12-1

 If needed, add fluid to the reservoir as follows. Remove filler cap (FIG. 13-1). Fill the reservoir with hydraulic fluid to the FULL mark (FIG. 13-1). Reinstall filler cap (FIG. 13-1).

CAUTION

Pump cover must be correctly secured to prevent it from becoming a hazard. Ensure pump cover is latched to pump box.

5. Reinstall and latch the pump cover (FIG. 12-1).



POWER UNIT FLUID LEVEL FIG. 13-1

| ISO 32 HYDRAULIC OIL | | | | | |
|-----------------------|---------------------|--|--|--|--|
| RECOMMENDED BRANDS | PART NUMBER | | | | |
| CHEVRON | HIPERSYN 32 | | | | |
| KENDALL | GOLDEN MV | | | | |
| SHELL | TELLUS S2 V32 | | | | |
| EXXONMOBIL | UNIVIS N-32, DTE-24 | | | | |

TABLE 13-1

| ISO 15 OR MIL-H-5606 HYDRAULIC OIL | | | | | |
|------------------------------------|-------------------|--|--|--|--|
| RECOMMENDED BRANDS | PART NUMBER | | | | |
| CHEVRON | FLUID A, AW-MV-15 | | | | |
| KENDALL | GLACIAL BLU | | | | |
| SHELL | TELLUS S2 V15 | | | | |
| EXXONMOBIL | UNIVIS HVI-13 | | | | |
| ROSEMEAD | THS FLUID 17111 | | | | |

TABLE 13-2

PERIODIC MAINTENANCE CHANGING HYDRAULIC FLUID

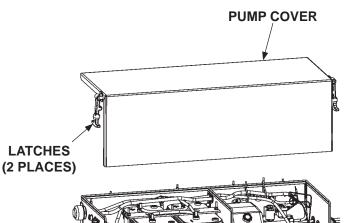
CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination.

NOTE: Use correct grade of hydraulic fluid for your location.

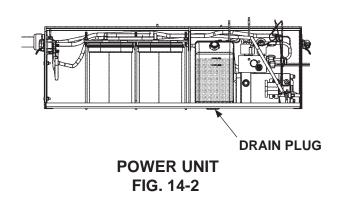
+50 to +120 Degrees F - Grade ISO 32 Below + 70 Degrees F - Grade ISO 15 or MIL-H-5606 See TABLES 13-1 & 13-2 for recommended brands.

1. Unstow and lower Liftgate to ground.



2. Unlatch and remove the pump cover (FIG. 14-1).

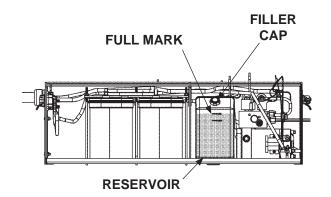
- PUMP UNIT (REF) REMOVE PUMP COVER FIG. 14-1
- Place empty 5 gallon bucket under drain plug (FIG. 14-2). Remove drain plug (FIG. 14-2). Drain hydraulic fluid. Reinstall drain plug (FIG. 14-2).



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- Remove filler cap (FIG. 15-1). Add 1.85 gallons (7.4 qt) of hydraulic fluid to reservoir. Hydraulic fluid should at the FULL mark (FIG. 15-1). Reinstall filler cap (FIG. 15-1).
- 5. Stow the lift and do the CHECKING HYDRAULIC FLUID procedure in this section of the manual.

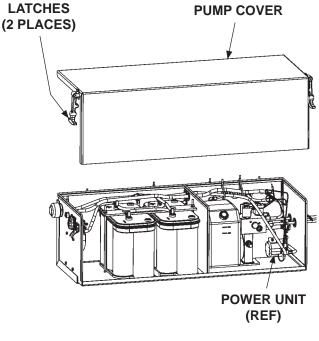


POWER UNIT FLUID LEVEL FIG. 15-1

CAUTION

Pump cover must be correctly secured to prevent it from becoming a hazard. Ensure pump cover is latched to pump box.

6. Reinstall and latch the pump cover (FIG. 15-2).



REINSTALL PUMP COVER FIG. 15-2

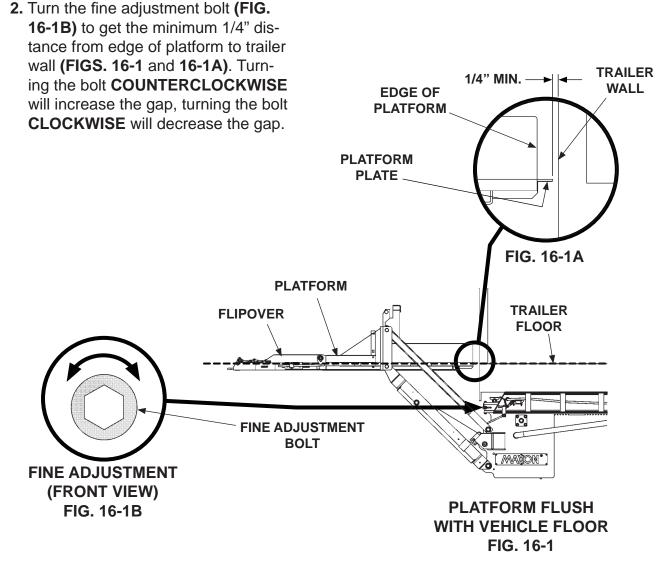
PLATFORM GAP & STOP ADJUSTMENT



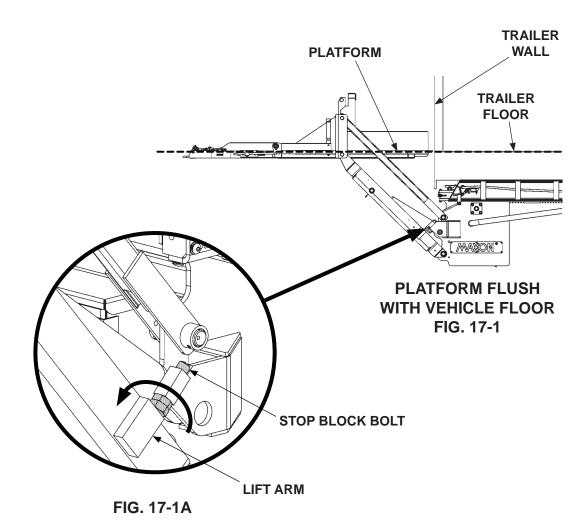
NOTE: Refer to Operating Instructions decal and applicable WARNING & CAUTION decals.

NOTE: Park vehicle on level ground and unload vehicle before doing this procedure.

 Run slide assembly out and unfold the flipover. Then, raise platform to floor level making sure not to hit trailer wall (FIG. 16-1). If necessary, trim platform plate (FIG. 16-1A).



3. With platform at floor level, turn stop block bolts **COUNTERCLOCKWISE** until butted against each lift arm as shown in **FIGS. 17-1** and **17-1A**. This will prevent the platform from hitting the trailer wall.



DECALS

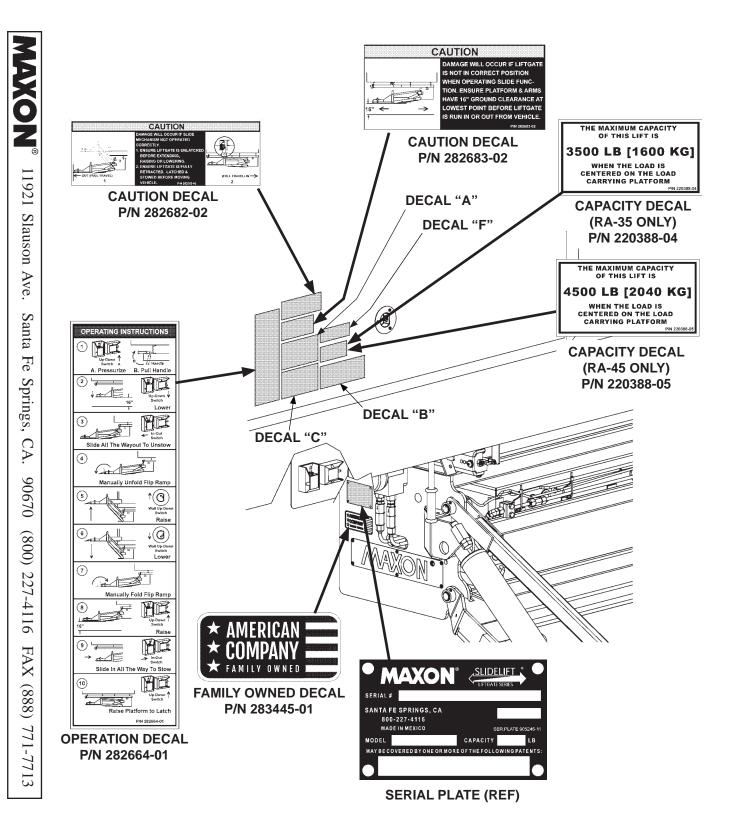
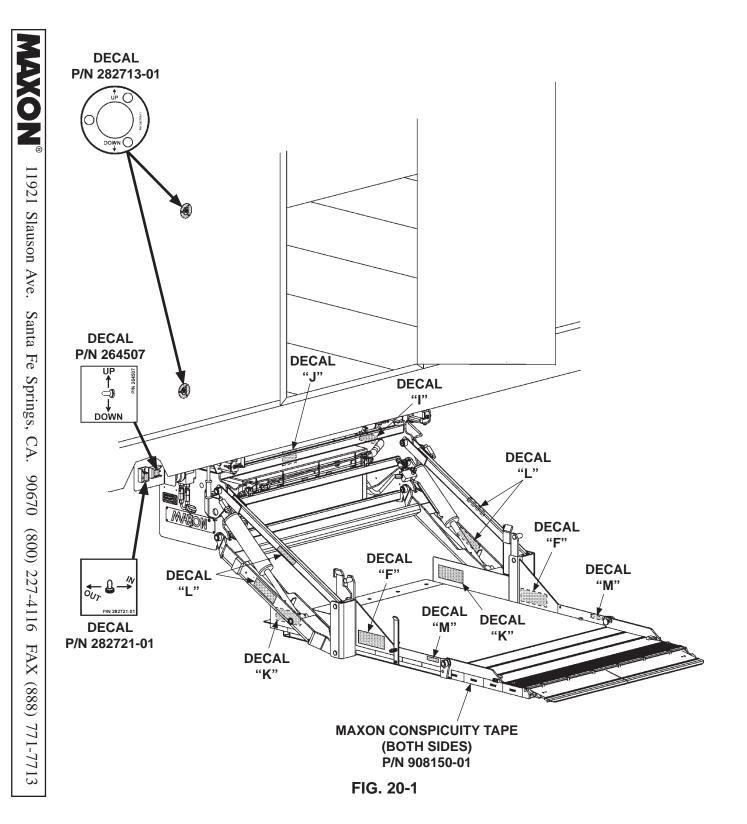


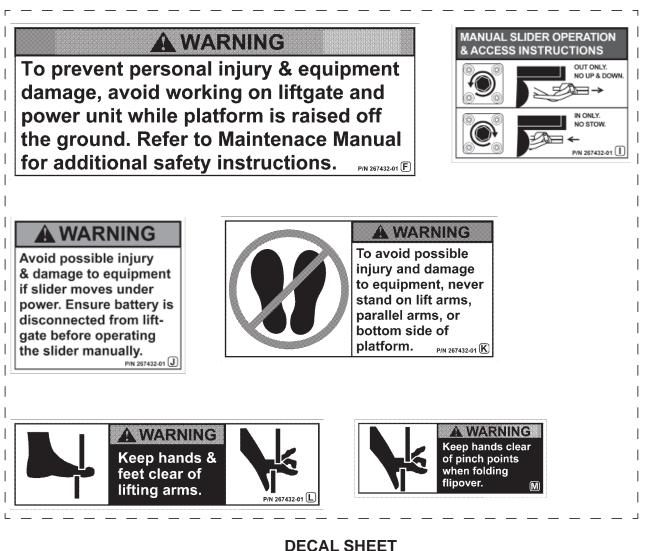
FIG. 18-1

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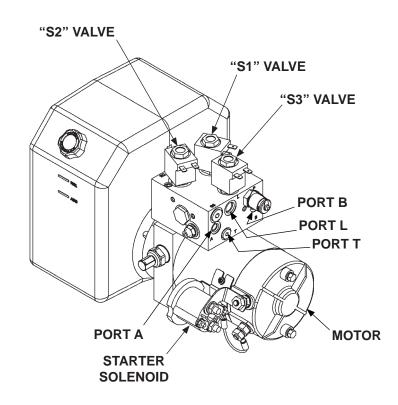
DECAL SHEET P/N 282522-01 FIG. 19-1





DECAL SHEET P/N 282724-01 FIG. 21-1

SYSTEM DIAGRAMS PUMP & MOTOR SOLENOID OPERATION



PUMP AND MOTOR FIG. 22-1

| POWER UNIT MOTOR & SOLENOID OPERATION | | | | | | | |
|---|------|---|---------------|---------------|---------------|---------------|--|
| LIFTGATE FUNCTION | PORT | SOLENOID OPERATION (✓ MEANS ENERGIZED) | | | | | |
| | | MOTOR | VALVE "S1" | VALVE "S2" | VALVE "S3" | LOCK VALVE | |
| RAISE | L | \checkmark | - | - | - | \checkmark | |
| LOWER | т | - | - | - | \checkmark | \checkmark | |
| SLIDE OUT | А | | - | \checkmark | - | - | |
| SLIDE IN | В | \checkmark | \checkmark | - | - | - | |
| REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC | | | | | | | |

TABLE 22-1

HYDRAULIC SCHEMATIC

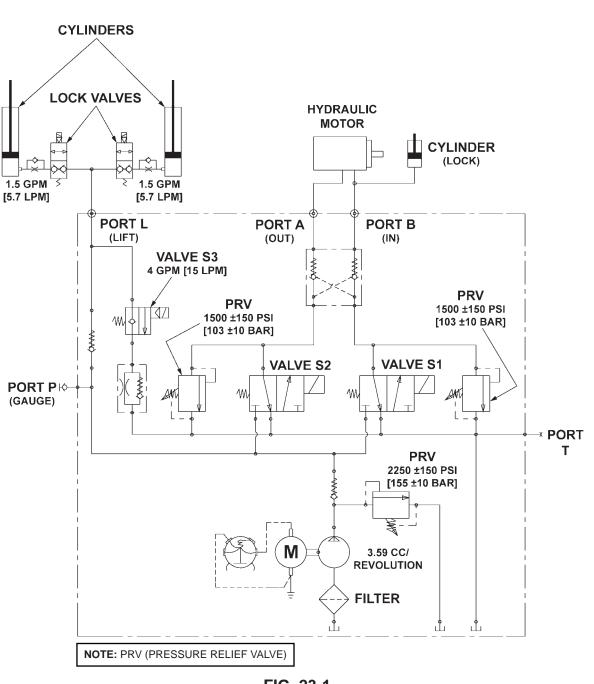


FIG. 23-1

SYSTEM DIAGRAMS - Continued ELECTRICAL SCHEMATIC

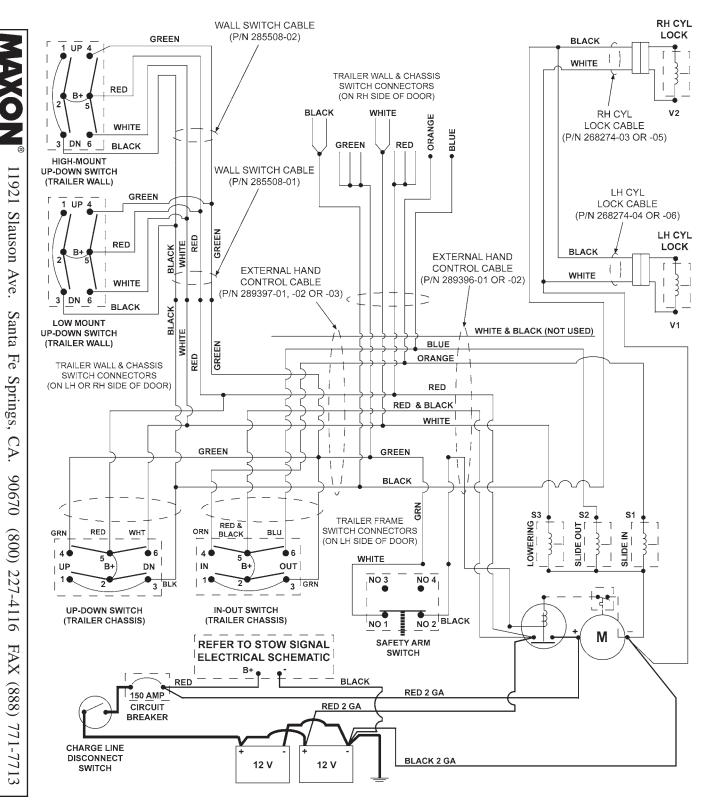
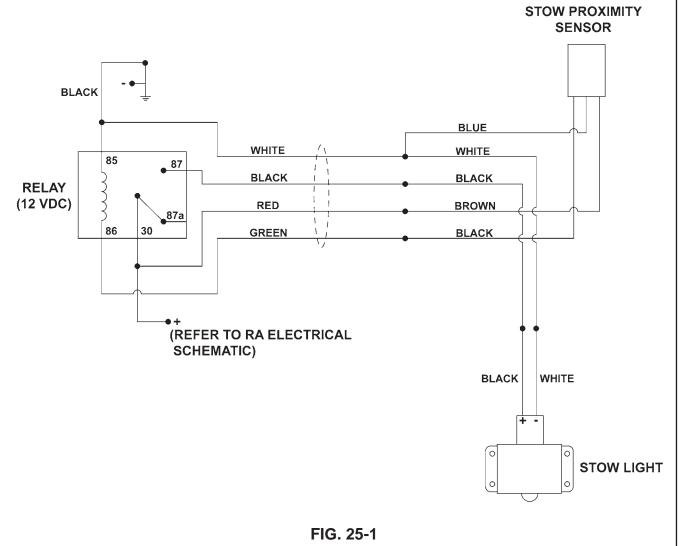
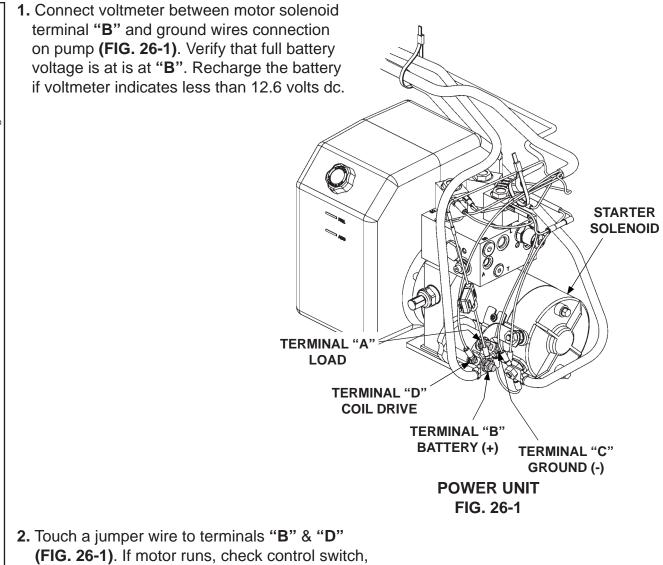


FIG. 24-1

STOW SIGNAL ELECTRICAL SCHEMATIC



TROUBLESHOOTING PLATFORM WILL NOT RAISE & MOTOR WILL NOT RUN

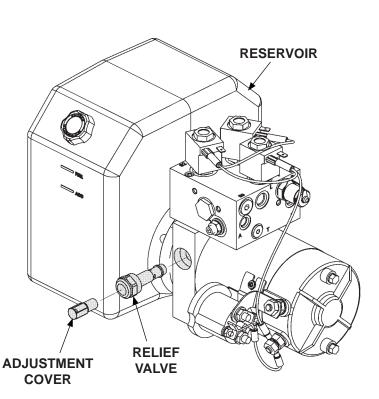


- Touch a jumper wire to terminals "B" & "D" (FIG. 26-1). If motor runs, check control switch, switch connections, and fuse on red wire. The, check and correct wiring connections, replace fuse, or replace the control switch.
- Touch heavy jumper cables to terminals "A" & "B" (FIG. 26-1).

a. If motor runs, replace the motor solenoid.b. If motor does not run, repair or replace the pump motor.

PLATFORM WILL NOT RAISE, BUT MOTOR RUNS

- 1. Do the CHECKING HYDRAULIC FLUID procedure in this manual. If necessary, add hydraulic fluid.
- 2. Check for structural damages and replace worn parts.



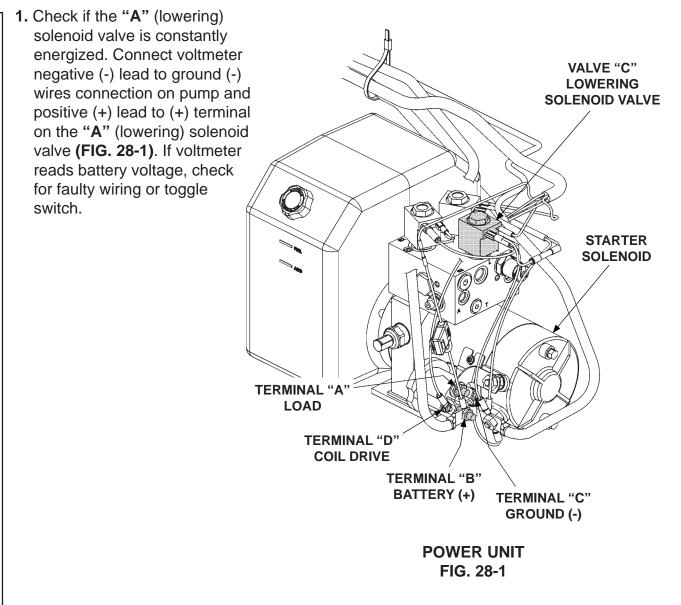
CHECKING THE RAISING RELIEF VALVE FIG. 27-1

CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination during maintenance.

- Check pump oil filter in the reservoir (FIG. 27-1). Clean or replace filter if necessary.
- Check for dirty raising relief valve (FIG. 27-1). Clean or replace valve if necessary.

TROUBLESHOOTING PLATFORM RAISES BUT LEAKS DOWN



CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination during maintenance.

NUT

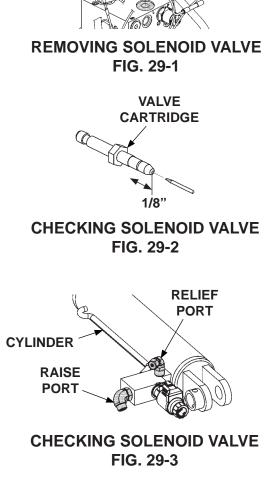
COIL

VALVE

CARTRIDGE

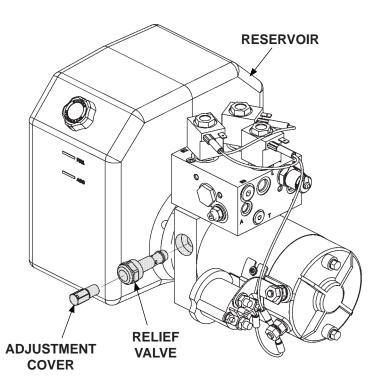
 Make sure platform is on the ground. Remove lowering solenoid valve (FIG. 29-1). Push on the plunger in the valve by inserting small screwdriver in the open end (FIG. 29-2). If the plunger does not move with a smooth, springloaded action (approximately 1/8"), replace the valve cartridge. Reinstall lowering valve. Torque valve cartridge to 30 lbs.-ft. and hex nut to 30 lbs.-in.

Check the hydraulic cylinder. With platform at vehicle floor level, remove the hydraulic line from the RELIEF port on the cylinder (FIG. 29-3). Hold the control switch in the RAISE position for two seconds while you watch for hydraulic fluid at the RELIEF port. A few drops of hydraulic fluid escaping the port is normal. However, if fluid streams out, piston seals are worn, Replace seals.



TROUBLESHOOTING PLATFORM RAISES PARTIALLY THEN STOPS

- Lower the open platform to the ground. Do the CHECKING HYDRAULIC FLUID procedure in this manual, If necessary, add hydraulic fluid.
- 2. Use voltmeter to verify the battery voltage is 12.6 volts or more under load from pump motor.
- 3. Check for structural damage and poor lubrication. Replace worn parts.



CHECKING THE RAISING RELIEF VALVE FIG. 30-1

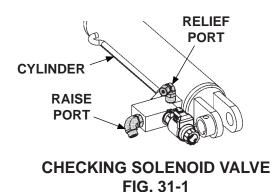
CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination during maintenance.

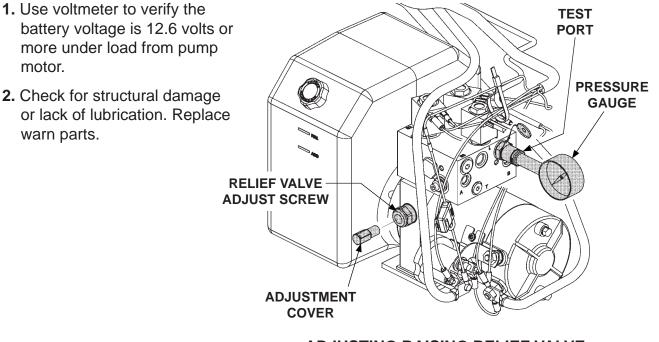
4. Check for dirty raising relief valve **(FIG. 30-1)**. Clean or replace relief valve, if necessary.

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- 5. Check the hydraulic cylinder. With platform at vehicle floor level, remove the hydraulic line from the RELIEF port on the cylinder (FIG. 31-1). Hold the control switch in the RAISE position for two seconds while you watch for hydraulic fluid at the RELIEF port. A few drops of hydraulic fluid escaping the port is normal. However, if fluid streams out, piston seals are warn. Replace seals.
- Check pump oil filter in the reservoir line (FIG. 31-1). Clean or replace filter, if necessary.



TROUBLESHOOTING LIFTGATE WILL NOT LIFT RATED CAPACITY



ADJUSTING RAISING RELIEF VALVE FIG. 32-1

CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination during maintenance.

- Check the 2250 PSI pressure relief valve as follows. With platform on the ground, remove plug from test port (FIG. 32-1). Install 0-4000 PSI pressure gauge in the test port (FIG. 32-1). Hold the control switch in the "RAISE" position. Adjust the relief valve until the gauge reads 2250 +/- 150 PSI (FIGS. 32-1). Remove gauge and reinstall plug in the port. Then, reinstall relief valve cover.
- **4.** Check if pump relief valve is dirty. Clean or replace relief valve, if necessary.

- 5. Check the hydraulic cylinder. With the platform at vehicle floor level, remove the hydraulic line from the RELIEF port on the cylinder (FIG. 33-1). Hold the control switch in the "RAISE" position for two seconds while you watch for hydraulic fluid at the RELIEF port. A few drops of hydraulic fluid escaping the port is normal. However, if fluid streams out, piston seals are worn. Replace seals.
- If pump cannot produce 2250 +/- 150
 PSI or lift the load capacity with a minimum of 12.6 volts available, the pump is worn and needs to be replaced.

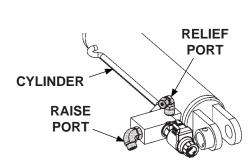
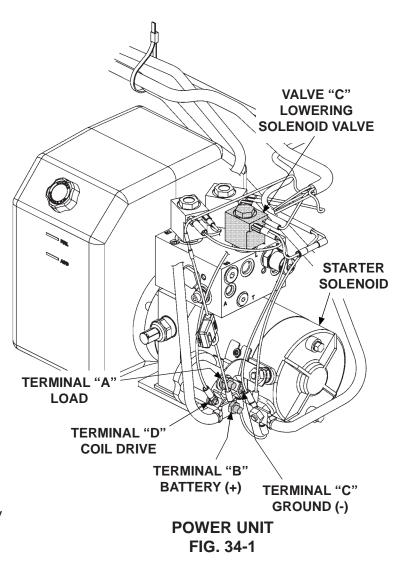


FIG. 33-1

TROUBLESHOOTING PLATFORM WILL NOT LOWER, LOWERS TOO SLOWLY, OR TOO QUICKLY

- Connect voltmeter (+) lead to motor solenoid terminal "B" and the (-) lead to the ground wires connection on pump (FIG. 34-1). Verify that full battery voltage is at "B". Recharge the battery if voltmeter indicates less than 12.6 volts dc.
- 2. Check for structural damage or poor lubrication. Replace worn parts.

3. Check if the "D" terminal and "A" (lowering) solenoid valve are getting battery voltage (FIG. 34-1). Connect voltmeter negative (-) lead to ground (-) wires connection on pump and positive (+) lead to the "D" terminal (FIG. 34-1). Hold control switch in the "LOWER" position. Then, connect voltmeter (+) lead to (+) terminal on the "A" (lowering) solenoid valve (FIG. 34-1). If voltmeter shows a much lower reading than +12.6 volts dc or a reading of 0 volts, check for faulty control switch and wiring, battery cable, ground wire connections in pump assembly, and pump motor.



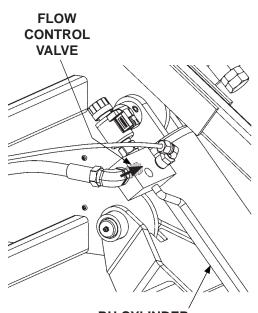
CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination during maintenance.

CAUTION

To prevent damage to flow control valve, do not disassemble the valve.

4. Make sure platform is on the ground. Check the RH flow control valve as follows. Remove flow control valve (FIG. 35-1). Ensure the flow control valve operates with a smooth springloaded action. Check for debris inside the valve. Clean or replace the flow control valve, if necessary. Reinstall flow control valve (if good) or a replacement. Do the same for the LH flow control valve.



RH CYLINDER

FLOW CONTROL VALVE ON RH CYLINDER FIG. 35-1

 Check the lowering solenoid valve as follows. Check if filtering screen is plugged. Clean carefully if required. Push on the plunger in the valve by inserting small screwdriver in the open end (FIG. 35-2). If the plunger does not move with a smooth, spring-loaded action (approximately 1/8"), replace the valve cartridge. Reinstall lowering solenoid valve (if good) or a replacement. Torque valve cartridge to 30 lbs.-ft. and hex nut to 30 lbs.-in.

