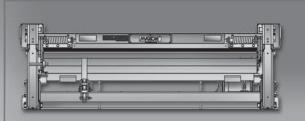
M-04-04 REV. J JUNE 2014

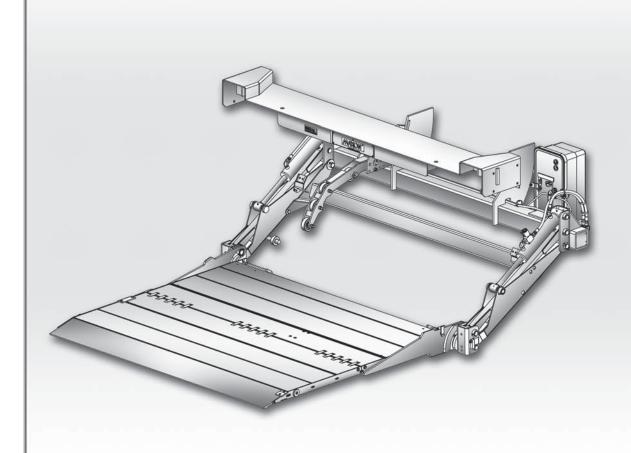


MAXON® GPTLR

MAINTENANCE MANUAL

Series

GPTLR-25, GPTLR-33, GPTLR-44, & GPTLR-55



TUK-A-WAY®

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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
- 4. 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
- 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

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

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

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SUMMARY OF CHANGES: M-04-04, REVISION J

PAGE	DESCRIPTION OF CHANGE
COVER	Updated REV, date of release, and cover images.
8	Changed aluminum welding code from D2.1 To D1.2.
15	Added torsion spring pin lube fitting.
22-26	Updated Platform Torsion Spring Adjustment procedure.
16, 18, 20 & 78-81	Changed cover bolts to knobs in the remove/reinstall pump cover instructions and parts explosions.
17	Updated Shell's part numbers for hydraulic oil to Tellus S2 V32 and Tellus S2 V15.
28-30, 32, 34, 36, 38, 40, 42-49	Updated torsion spring orientation and parts in the adjustment procedure and parts explosions.
56-57	Added platforms & flipovers with Max Grip and anti-slip coating to parts list.
58-65, 68-71	Added MAXGRIP and anti-slip coated platforms and flipovers.
62-65	Added Platform and Flipover Assembly with Single Retention Ramp and with Max Grip and anti-slip coating.
66-67	Added parts explosion for flipover with fixed ramp.
68-71	Added flipovers with MAX GRIP, MAX GRIP Decal, and anti-slip coating to parts explosion.
72-75	Added Flipover with Single Retention Ramp, and MAX GRIP decal to parts explosion.
86, 88	Clarified torque specs for electrical connections on starter solenoid.
90, 93	Replaced warning decal P/N 264081 with P/N 282522-01, changed image of decal P/N 264507, and updated decal view of vehicle.
103, 106, 108	Updated power down pump illustration.

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

A WARNING

- 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.
- Welding on galvanized parts gives off especially hazardous fumes. Comply with WARNING decal
 on the galvanized part (FIG. 8-1). To minimize hazard remove galvanizing from weld area, provide
 adequate ventilation, and wear suitable respirator.



FIG. 8-1

MAXON

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:

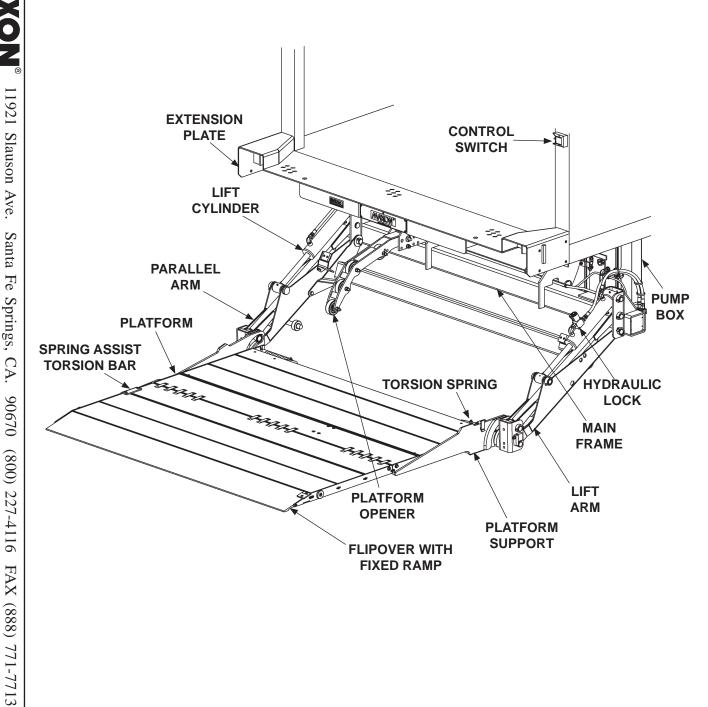
MAXON LIFT CORP. Customer Service 11921 Slauson Ave., Santa Fe Springs, CA 90670

Online: www.maxonlift.com

Express Parts Ordering: Phone (800) 227-4116 ext. 4345

Email: Ask your Customer Service representative

LIFTGATE TERMINOLOGY



AAXON

PERIODIC MAINTENANCE PERIODIC MAINTENANCE CHECKS

A WARNING

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 HYDRAU-LIC 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. Never mix two different grades of fluid.

Check all hoses and fittings for chafing and fluid leaks. Make sure hydraulic lock is in place and undamaged. Replace if necessary.

Check electrical wiring for chafing and make sure wiring connections are tight and free of corrosion.

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

Check that all roll pins are in place and protrude evenly from both sides of hinge pin collar. Replace roll pins if necessary.

Check both platform torsion springs to make sure there is grease between the coils. If grease is not visible in the valley between each coil, apply spray-on white lithium grease. Unfold & fold platform. If platform feels heavy while starting to fold, do **PLATFORM TORSION SPRING ADJUSTMENT** in the **PERIODIC MAINTENANCE** section of this manual.

Pump EP chassis grease in each lube fitting on the cylinders and arms until grease starts oozing from ends of the bearings. The lubrication diagram on the **PERIODIC MAINTE-NANCE CHECKLIST SHEET** shows where to find the lube fittings. Wipe off excess grease with a clean lint-free cloth.

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.

FAX (888) 771-7713

PERIODIC MAINTENANCE PERIODIC MAINTENANCE CHECKS - Continued

Annually or 5000 Cycles (whichever occurs first)

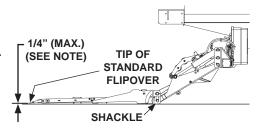
Visually check the entire Liftgate for excessively worn parts and broken welds, especially hinge pins. See **PARTS BREAKDOWN** section for replacement parts.

Check the platform and flipover as follows. Unfold the platform and flipover. Raise the platform to vehicle bed height and then lower it to the ground. Check if the shackles and tip of flipover touch the ground at the same time (FIG. 12-1). With the shackles touching, tip of a ramp-style flipover may be no more than 1/4" above the ground. A flipover equipped with retention ramp may have a maximum 2" of ground clearance at the tip of the flipover.

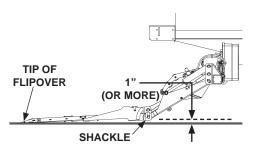
If the shackles are 1" or more above the ground when the tip of the flipover is touching the ground, perform the ADJUST PLATFORM procedure in the Installation Manual (M-04-06). If the adjustment does not correct the problem, check pins and bearings at the pivot points on both sides of the Liftgate (see FIG. 12-3). See PARTS BREAK-DOWN section for replacement parts.

Also, for aluminum flipovers equipped with single retention ramp and for steel flipovers, ensure latch is in place, undamaged, and working correctly. See

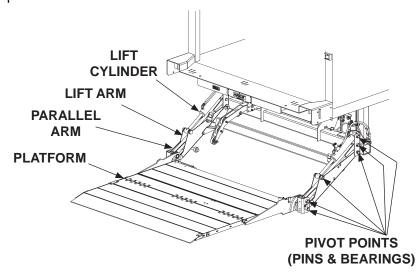
PARTS BREAKDOWN section for replacement parts.



PLATFORM & SHACKLES TOUCHING THE GROUND FIG. 12-1



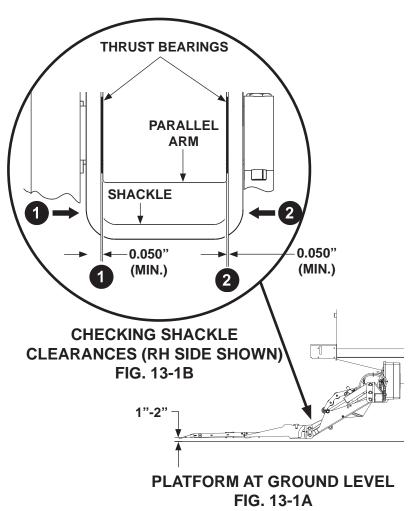
SHACKLES NOT TOUCHING THE GROUND FIG. 12-2



PIVOT POINTS TO CHECK FIG. 12-3

To prevent unnecessary wear on parallel arms, check for worn thrust bearings as follows. Position the platform 1"-2" above ground (FIG. 13-1A). Push against the shackle (Item 1, FIG. 13-1B) and measure clearance (Item 1, FIG. 13-1B). Then, push against other side of shackle (Item 2, FIG. 13-1B) and measure clearance (Item 2, FIG. 13-1B). Repeat for LH side shackle. If clearance is less than 0.050", replace thrust bearing. See PARTS BREAKDOWN section for replacement parts.

Also, do the **Semi-annual or 2500 Cycles** and **Quarterly or 1250 Cycles** checks.



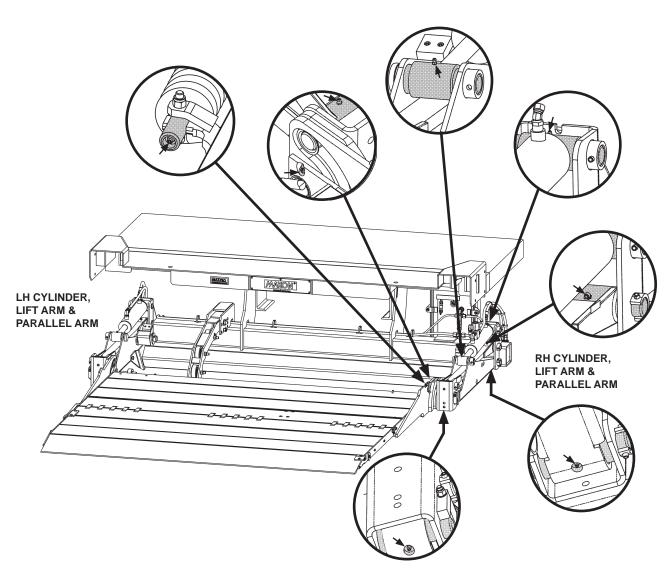
PERIODIC MAINTENANCE PERIODIC MAINTENANCE CHECKLIST

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

l	
Qı	uarterly 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, and check hydraulic lock.
	Check electrical wiring for chafing and make sure wiring connections are tight and free of corrosion.
	Check that all WARNING and instruction decals, nonskid stickers, and safety striping are in place. Also, make sure decals are legible and decals, nonskid, and safety striping are clean and undamaged.
	Check that all roll pins are in place and protrude evenly from both sides of hinge pin collar. Replace roll pins if necessary.
	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.
	Check both platform torsion springs to make sure there is grease in the valley between each coil. If grease is not visible, apply spray-on white lithium grease to the valley between each coil. Unfold & fold platform. If platform feels heavy while starting to fold, do PLATFORM TORSION SPRING ADJUSTMENT in the PERIODIC MAINTENANCE section of this manual.
	Pump EP chassis grease in each lube fitting on the cylinders and arms until grease starts oozing from ends of the bearings. Refer to lubrication diagram on the next page page. Wipe off excess grease with a clean lint-free cloth.
Se	emi-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.
A	nnually or 5000 Cycles (whichever occurs first)
	Visually check the entire Liftgate for excessively worn parts and broken welds, especially hinge pins.
	Visually check platform & flipover. (See the PERIODIC MAINTENANCE CHECKS topic for more information.)
	Visually check the thrust bearings on the shackles.
	Do the Semi-annual or 2500 Cycles Checks on this checklist.
	Do the Quarterly or 1250 Cycles Checks on this checklist.
Fo	or more details pertaining to this checklist, see the PERIODIC MAINTENANCE CHECKS

section in this Maintenance Manual.

NOTE: Lube fittings are shown for the RH cylinder, lift arm, and parallel arm. There are also lube fittings at the same places on the LH cylinder, lift arm, and parallel arm. Refer to the **PERIODIC MAINTENANCE CHECKS** and **PERIODIC MAINTENANCE CHECKLIST** for the recommended grease and maintenance interval.



GPTLR LUBRICATION DIAGRAM FIG. 15-1

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.

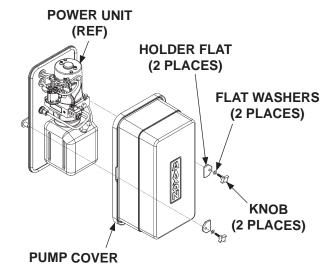
+50 to +120 Degrees F - Grade ISO 32 Below + 70 Degrees F - Grade ISO 15 or MIL-H-5606

See TABLES 17-1 & 17-2 for recommended brands.

- 1. Unfasten and remove pump cover (FIG. 16-1).
- Check the hydraulic fluid level in reservoir as follows. With Liftgate stowed, or platform at vehicle bed height, level should be as shown in FIG. 16-2.

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

If needed, add fluid to the reservoir as follows. Pull out (no threads) filler cap (FIG. 16-2). Fill the reservoir with hydraulic fluid to level shown in FIG. 16-2. Reinstall filler cap (FIG. 16-2).

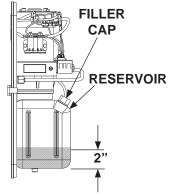


UNFASTENING / FASTENING PUMP COVER FIG. 16-1

CAUTION

Pump cover must be correctly secured to prevent it from becoming a hazard. To secure pump cover, the long side of the holder flats must butt against pump cover as shown in the illustration.

 Reinstall and fasten pump cover as shown in FIG. 16-1. Hand tighten knobs.



POWER UNIT FLUID LEVEL FIG. 16-2

©
0
X
4
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ISO 32 HYDRAULIC OIL			
RECOMMENDED BRANDS	PART NUMBER		
AMSOIL	AWH-05		
CHEVRON	HIPERSYN 32		
KENDALL	GOLDEN MV		
SHELL	TELLUS S2 V32		
EXXON	UNIVIS N-32		
MOBIL	DTE-13M, DTE-24, HYDRAULIC OIL-13		

TABLE 17-1

ISO 15 OR MIL-H-5606 HYDRAULIC OIL			
RECOMMENDED BRANDS	PART NUMBER		
AMSOIL	AWF-05		
CHEVRON	FLUID A, AW-MV-15		
KENDALL	GLACIAL BLU		
SHELL	TELLUS S2 V15		
EXXON	UNIVIS HVI-13		
MOBIL	DTE-11M		
ROSEMEAD	THS FLUID 17111		

TABLE 17-2

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.

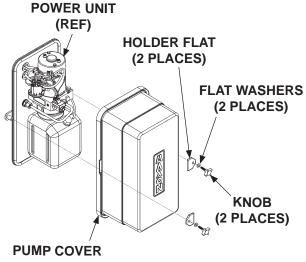
+50 to +120 Degrees F - Grade ISO 32

Below + 70 Degrees F - Grade ISO 15 or MIL-H-5606

See TABLES 17-1 & 17-2 for recommended brands.

GRAVITY DOWN & POWER DOWN LIFTGATES

 Unfasten and remove pump cover (FIG. 18-1). Place empty
 gallon bucket under drain plug (FIG. 18-2).



UNFASTENING PUMP COVER FIG. 18-1

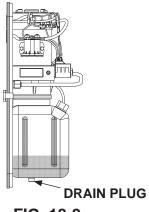
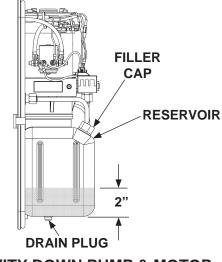


FIG. 18-2

GRAVITY DOWN LIFTGATES

- 1. Lower platform to ground. Pull out (no threads) drain plug (FIG. 19-1). Drain hydraulic fluid from system. Reinstall drain plug.
- 2. Pull out (no threads) filler cap (FIG. 19-1) and refill reservoir with hydraulic fluid to level shown in FIG. 19-1. Reinstall filler cap (FIG. 19-1).
- 3. Stow the Lift and do the CHECKING HYDRAU-**LIC FLUID** procedure in this section of the manual.



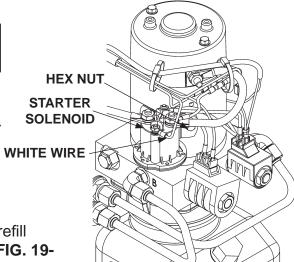
GRAVITY DOWN PUMP & MOTOR FIG. 19-1

POWER DOWN LIFTGATES

1. Open and raise platform to vehicle bed height. Pull out (no threads) drain plug (FIG. 19-1). Drain hydraulic fluid.

NOTE: MAXON recommends using dielectric grease on all electrical connections.

2. Disconnect the white wire (FIG. 19-2) from starter solenoid. Lower the platform while draining the remaining hydraulic fluid from system. Reinstall drain plug. Reconnect the white wire to starter solenoid.



POWER DOWN PUMP FIG. 19-2

- 3. Pull out (no threads) filler cap (FIG. 19-1) and refill reservoir with hydraulic fluid to level shown in FIG. 19-1. Reinstall filler cap (FIG. 19-1).
- 4. Stow the Lift and do the CHECKING HYDRAULIC **FLUID** procedure in this section of the manual.

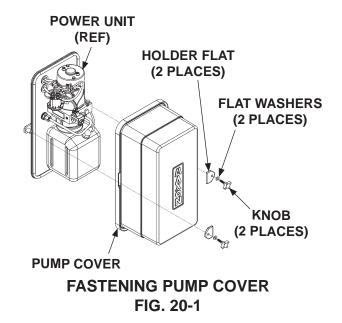
PERIODIC MAINTENANCE

GRAVITY DOWN & POWER DOWN LIFTGATES

CAUTION

Pump cover must be correctly secured to prevent it from becoming a hazard. To secure pump cover, the long side of the holder flats must butt against pump cover as shown in the illustration.

Reinstall and fasten pump cover as shown in **FIG. 20-1**. Hand tighten knobs.

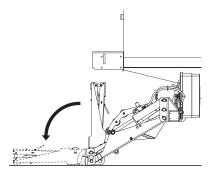


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PERIODIC MAINTENANCE PLATFORM TORSION SPRING ADJUSTMENT

NOTE: Perform the following adjustment if platform feels heavy as you start to fold it for stowing. If adjusted as follows, the torsion springs will reduce the amount of effort you need to start folding the platform.

 Make sure vehicle is parked on level ground. LOWER the Liftgate to the ground and unfold platform only (FIG. 22-1).

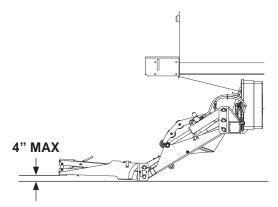


UNFOLDING PLATFORM FIG. 22-1

NOTE: A properly adjusted platform will stay on ground or horizontal position when open flipover is being folded. Acceptable force to fold the platform is 40 lbs max.

NOTE: Bottom of unfolded platform should be 4" or less above the ground. If distance is more than 4", and platform can be folded and unfolded with ease, the greater distance is allowed and no adjustment is necessary.

2. Measure the distance between the bottom block of the platform and the-ground (FIG. 22-2).

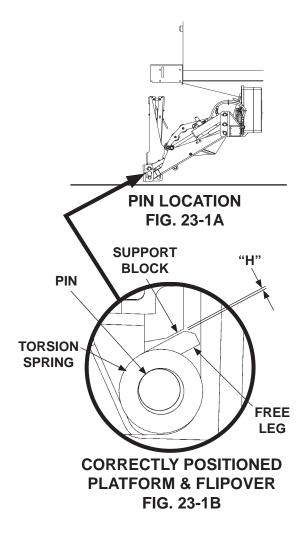


PLATFORM 0-4" ABOVE GROUND FIG. 22-2

AWARNING

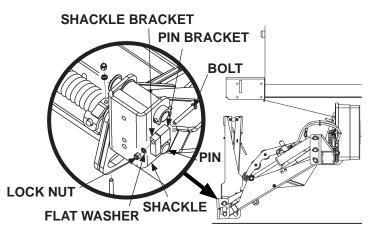
To prevent possible injury and damage to Liftgate, have another qualified person hold platform in position to keep it from falling open.

- **3.** Position platform and flipover to 90 degrees, +2 / -0 degrees (**FIG. 23-1A**). Get a second person to hold the platform in place while you take measurements.
- On RH side of platform, position the torsion spring so it rests on pin (FIGS. 23-1A & 23-1B). Make sure free leg of torsion spring is parallel to chamfered surface on support block (FIG. 23-1B). Measure gap "H" b tween leg of the torsion spring and support block (FIG. 23-1B). Get enough 1/16" shim washers (Kit items), to equal measured gap.

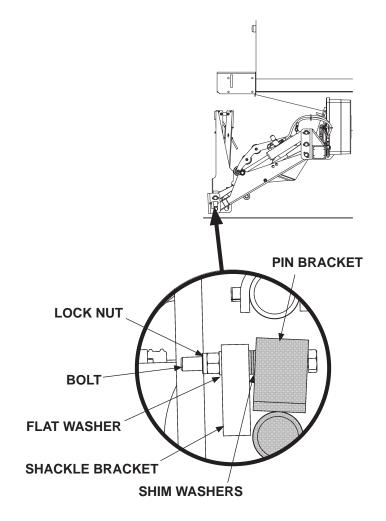


PLATFORM TORSION SPRING ADJUSTMENT - Continued

- **5.** If necessary, adjust the torsion springs to lower the platform to 4" or less above the ground. Unbolt pin bracket (FIG. 24-1). Then, rotate the pin bracket away from the shackle bracket until the free leg of the torsion spring makes contact with the new block welded to the platform support. Then, using shim washers that equal the gap "H" measured in step 14, insert the shim washers between pin LOCK NUT bracket and shackle bracket (FIGS. **24-1 and 24-2.)**. Bolt shim washers in place between pin bracket and shackle bracket (FIG. 24-2). Tighten bolt and lock nut.
- **6.** Repeat steps 2, 3, and 4 for the LH torsion spring.
- **7.** Repeat step1 to check clearance of bottom of platform above the ground.



ADJUST PLATFORM FIG. 24-1



SHIMMING TORSION SPRING FIG. 24-2

NOTE: If shimming is not possible, the spring contact surface on the new stops may be ground in small 1/16" increments to lower the platform closer to the ground.

8. If shimming is not possible, grind the contact surface on the support blocks (FIGS. 25-1 and 25-2) in small 1/16" increments to lower the platform to 4" or less, between bottom block and the ground (FIG. 25-3).

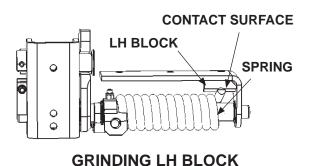
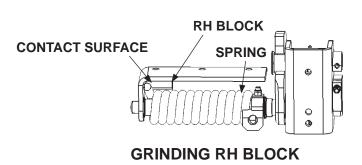


FIG. 25-1



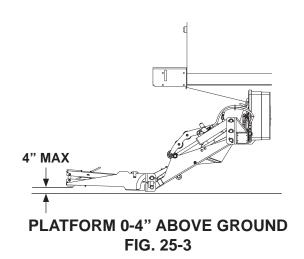


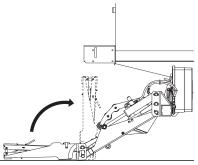
FIG. 25-2

PLATFORM TORSION SPRING ADJUSTMENT - Continued

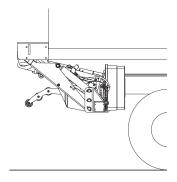
A CAUTION

Stow Liftgate under hydraulic pressure.

Fold platform as shown in FIG. 26-1.
 Then, stow Liftgate as shown in FIG. 26-2.



FOLDING PLATFORM FIG. 26-1



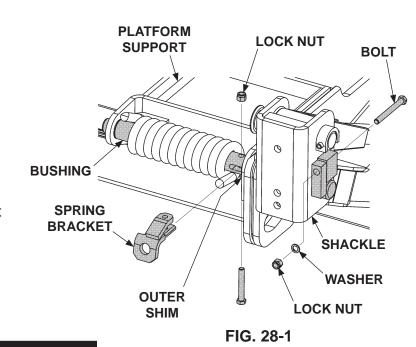
LIFTGATE STOWED FIG. 26-2

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PERIODIC MAINTENANCE REPLACING PLATFORM TORSION SPRING

NOTE: The following procedure shows how to replace torsion spring on RH side of platform. Use this procedure for replacing torsion spring on the LH side.

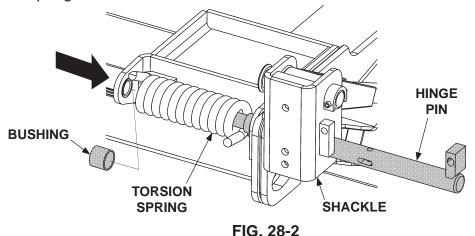
- 1. Fold flipover onto platform.
- 2. Fold platform.
- Raise Liftgate to a convenient work height to gain access and release tension on the torsion spring.



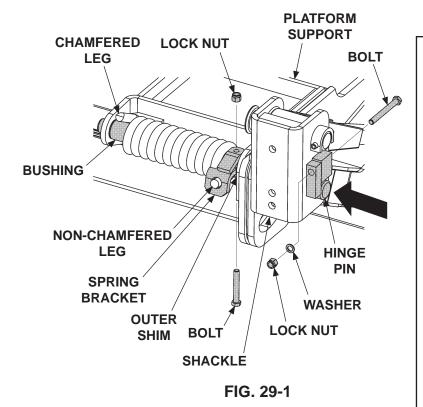
A CAUTION

To prevent injury and equipment damage, make sure there is no tension on torsion spring before removing hinge pin.

4. Unbolt hinge pin from shackle and spring bracket (FIG. 28-1). Remove bolts, washers, and lock nuts. Drive the hinge pin out board toward the shackle just enough to free the torsion spring and bushing (FIG. 28-2). Remove the torsion spring.

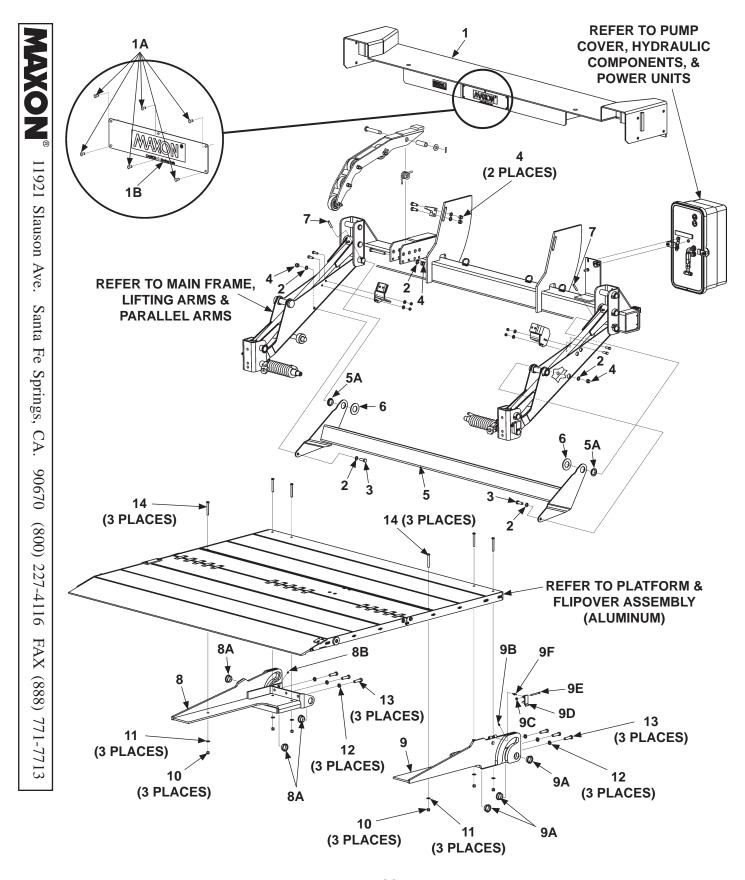


- Install the new torsion spring and bushing as shown in FIG.
 29-1. Make sure non-chamfered leg of the spring is inserted in the spring bracket (FIG.
 29-1). Make sure chamfered leg of the spring is visible and resting against the platform support (FIG. 29-1).
- 6. Drive the hinge pin into correct position through the platform support as shown in FIG. 29-1. Line up the bolt hole in the hinge pin with the hole in the shackle and spring bracket. Bolt the hinge pin to platform support and spring bracket with bolts, washers, lock nuts (FIG. 29-1). Torque the 3/8"-16 spring pin bolt and 3/8"-16 spring bracket bolt 35 to 52 lbs.-ft.
- 7. Do the **PLATFORM TORSION SPRING ADJUSTMENT** in this manual.
- Operate the Liftgate according to instructions in Operation Manual to make sure it operates correctly.



PARTS BREAKDOWN

MAIN ASSEMBLY: GPTLR-25 & GPTLR-33 (ALUMINUM PLATFORM)



,2 20.	
GALVANIZED	
GALVANIZED	
:D	
LG.	
LF-DRILLING	
ED	
LG.	
LF-DRILLING	
R PLATFORM	
/4"-20 X 2-3/4' LG.	
D.	
8" - 16 X 3-1/4" LG	

DESCRIPTION

EXTENSION PLATE ASSEMBLY (96" WIDE), GALVANIZED

EXTENSION PLATE ASSEMBLY (96" WIDE)

EXTENSION PLATE ASSEMBLY (102" WIDE)

ITEM

1

QTY.

1

PART NO.

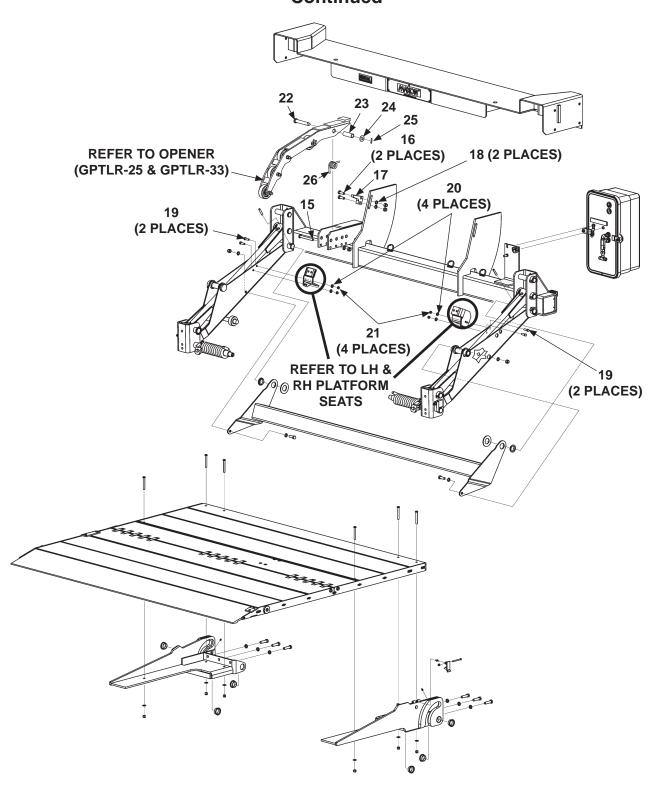
281090-01 281090-01G

281090-02

MAXON S

PARTS BREAKDOWN

MAIN ASSEMBLY: GPTLR-25 & GPTLR-33 (ALUMINUM PLATFORM) - Continued

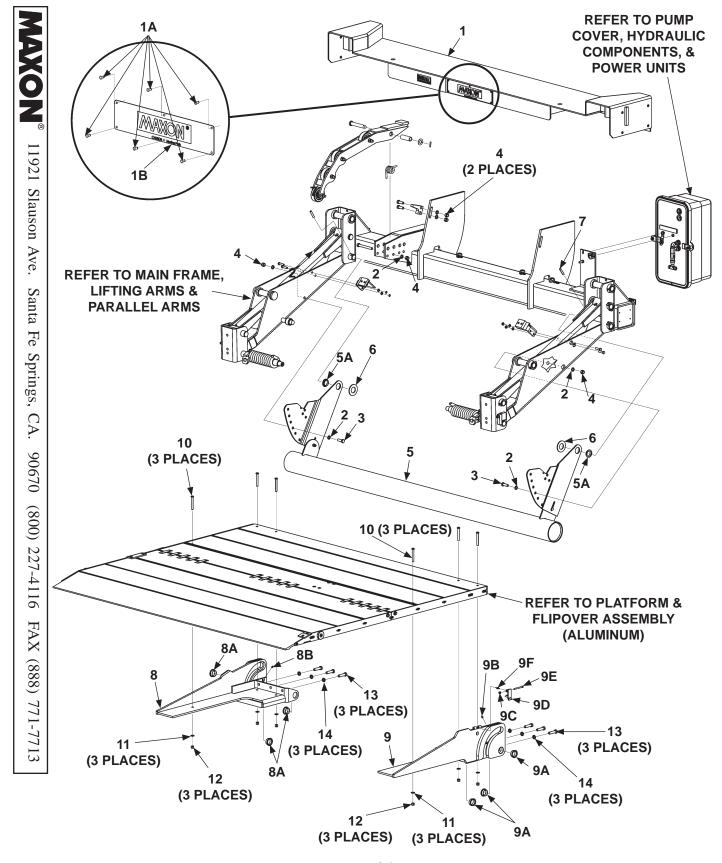


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ITEM	QTY.	PART NO.	DESCRIPTION
15	1	900035-12	CAP SCREW, 1/2"-13 X 4-1/2" LG.
16	2	900035-7	CAP SCREW, 1/2"-13 X 2-1/2" LG.
17	1	281673-01	STOP BLOCK
18	2	902000-16	FLAT WASHER, 5/8"
19	4	900014-5	CAP SCREW, 3/8"-16 X 1-1/4" LG, GR 8
20	4	902000-10	FLAT WASHER, 3/8"
21	4	901016-4	LOCK NUT, 3/8"-16, THIN HEAD
22	1	282277-01	PIN (OPENER)
23	1	092046-10	BUSHING (OPENER)
24	1	902000-20	FLAT WASHER, 3/4"
25	1	905033-2	ROLL PIN, 1/4" X 1-1/4"
26	1	284568-01	TORSION SPRING (OPENER)

PARTS BREAKDOWN

MAIN ASSEMBLY: GPTLR-44 & GPTLR-55 (ALUMINUM PLATFORM)



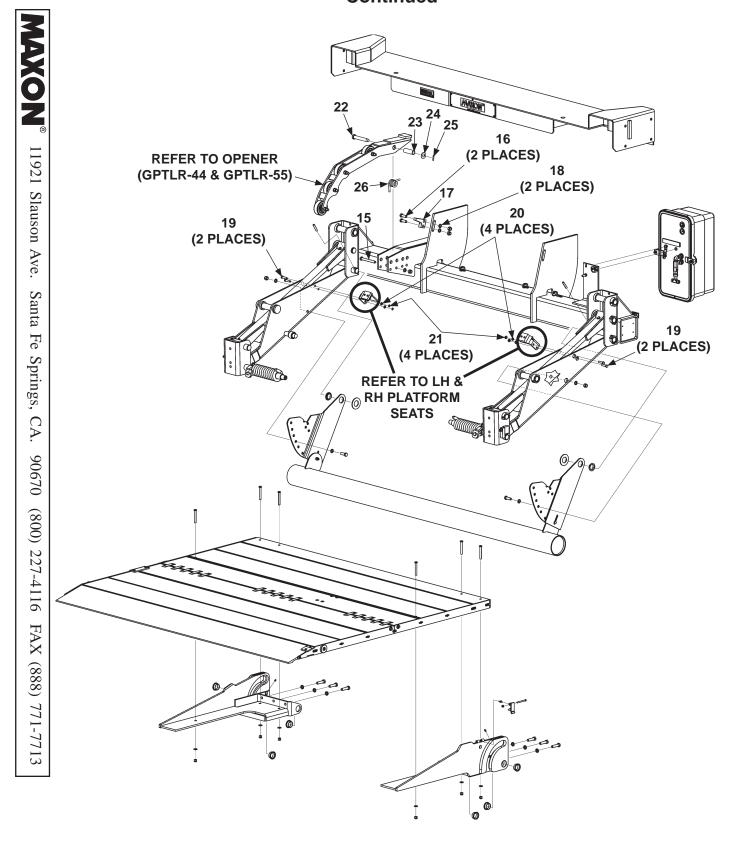
	٠	1741411101	5-201tm 1101t
	1	281120-01	EXTENSION PLATE ASSEMBLY (96" WIDE)
1		281120-01G	EXTENSION PLATE ASSEMBLY (96" WIDE), GALVANIZED
		281120-02	EXTENSION PLATE ASSEMBLY (102" WIDE)
		281120-02G	EXTENSION PLATE ASSEMBLY (102" WIDE), GALVANIZED
1A	6	207644	RIVET, 3/16" X .40" GRIP
1B	1	050175	MAXON PLATE
2	5	902000-14	FLAT WASHER, 1/2"
3	2	900035-3	CAP SCREW, 1/2"-13 X 1-1/2" LG.
4	5	901010	LOCK NUT, 1/2"-13
		281399-01	UNDERRIDE (96" WIDE)
5	1	281399-01G	UNDERRIDE (96" WIDE), GALVANIZED
5	l	281399-02	UNDERRIDE (102" WIDE)
		281399-02G	UNDERRIDE (102" WIDE), GALVANIZED
5A	2	908088-01	BEARING, FLANGED
6	2	902013-21	FLAT WASHER, 1-3/8"
7	2	221416	ROLL PIN, 3/8" X 2" LG.
		284843-01	SUPPORT, LH
8	1	284843-01G	SUPPORT, LH, GALVANIZED
A8	3	908008-02	BEARING, FLANGED, 5/8" LG.
8B	1	224342	GREASE FITTING, 1/4" SELF DRILLING
	4	284843-02	SUPPORT, RH
9	1	284843-02G	SUPPORT, RH, GALVANIZED
9A	3	908008-02	BEARING, FLANGED, 5/8" LG.
9B	1	224342	GREASE FITTING, 1/4" SELF-DRILLING
9C	1	903137-01	LOCK NUT, 1/4"-20 NYLON
9D	1	284645-01	LATCH WELDMENT, GPTLR PLATFORM
9E	1	900732-14	SOCKET HEAD SCREW, 1/4"-20 X 2-3/4' LG.
9F	1	284568-01	TORSION SPRING, 3/8" O.D.
10	6	900064-08	BUTTONHEAD SCREW, 3/8"-16 X 3-1/4" LG.
11	6	902013-11	FLAT WASHER, 3/8"
12	6	901002	LOCK NUT, 3/8"-16
13	6	900035-5	CAP SCREW, 1/2"-13 X 2" LG, GRADE 8
14	6	902011-6	LOCK WASHER, 1/2"

DESCRIPTION

ITEM QTY. PART NO.

PARTS BREAKDOWN

MAIN ASSEMBLY: GPTLR-44 & GPTLR-55 (ALUMINUM PLATFORM)
- Continued



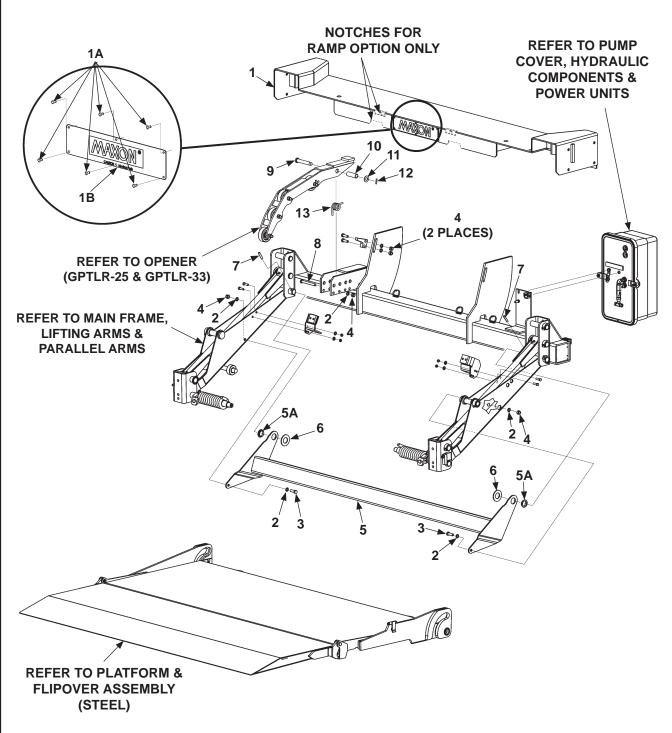
ITEM	QTY.	PART NO.	DESCRIPTION
15	1	900035-12	CAP SCREW, 1/2"-13 X 4-1/2" LG.
16	2	900035-7	CAP SCREW, 1/2"-13 X 2-1/2" LG.
17	1	281673-01	STOP BLOCK
18	2	902000-16	FLAT WASHER, 5/8"
19	4	900014-5	CAP SCREW, 3/8"-16 X 1-1/4" LG, GR 8
20	4	902000-10	FLAT WASHER, 3/8"
21	4	901016-4	LOCK NUT, 3/8"-16, THIN HEAD
22	1	282277-01	PIN (OPENER)
23	1	092046-10	BUSHING (OPENER)
24	1	902000-20	FLAT WASHER, 3/4"
25	1	905033-2	ROLL PIN, 1/4" X 1-1/4"
26	1	284568-01	TORSION SPRING (OPENER)

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FAX (888) 771-7713

PARTS BREAKDOWN

MAIN ASSEMBLY: GPTLR-25 & GPTLR-33 (STEEL PLATFORM & RAMP OPTION)

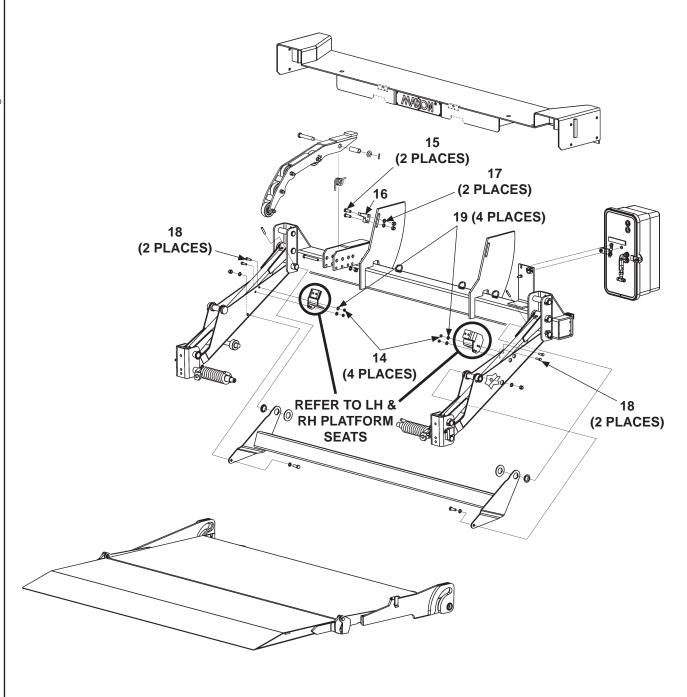


ITEM	QTY.	PART NO.	DESCRIPTION
		281090-01G	EXTENSION PLATE ASSEMBLY (96" WIDE), GALVANIZED
		281090-01	EXTENSION PLATE ASSEMBLY (96" WIDE)
		281090-02G	EXTENSION PLATE ASSEMBLY (102" WIDE), GALVANIZED
		281090-02	EXTENSION PLATE ASSEMBLY (102" WIDE)
1	1	281484-01G	EXTENSION PLATE ASSEMBLY (96" WIDE RAMP OPTION), GALVANIZED
		281484-01	EXTENSION PLATE ASSEMBLY (96" WIDE RAMP OPTION)
		281484-02G	EXTENSION PLATE ASSEMBLY (102" WIDE RAMP OPTION, GALVANIZED
		281484-02	EXTENSION PLATE ASSEMBLY (102" WIDE RAMP OPTION)
1A	6	207644	RIVET, 3/16" X .40" GRIP
1B	1	050175	MAXON PLATE
2	5	902000-14	FLAT WASHER, 1/2"
3	2	900035-3	CAP SCREW, 1/2"-13 X 1-1/2" LG.
4	3	901010	LOCK NUT, 1/2"-13
		281580-01G	ICC BUMPER (96" WIDE), GALVANIZED
_		281580-01	ICC BUMPER (96" WIDE)
5	1	281580-02G	ICC BUMPER (102" WIDE), GALVANIZED
		281580-02	ICC BUMPER (102" WIDE)
5A	2	908088-01	BEARING, FLANGED
6	2	902013-21	FLAT WASHER, 1-3/8"
7	2	221416	ROLL PIN, 3/8" X 2" LG.
8	1	900035-12	CAP SCREW, 1/2"-13 X 4-1/2"
9	1	282277-01	OPENER PIN
10	1	092046-10	BUSHING
11	1	902000-20	FLAT WASHER, 3/4"
12	1	905033-2	ROLL PIN, 1/4" X 1-1/4"
13	1	282272-01	OPENER TORSION SPRING

FAX (888) 771-7713

PARTS BREAKDOWN

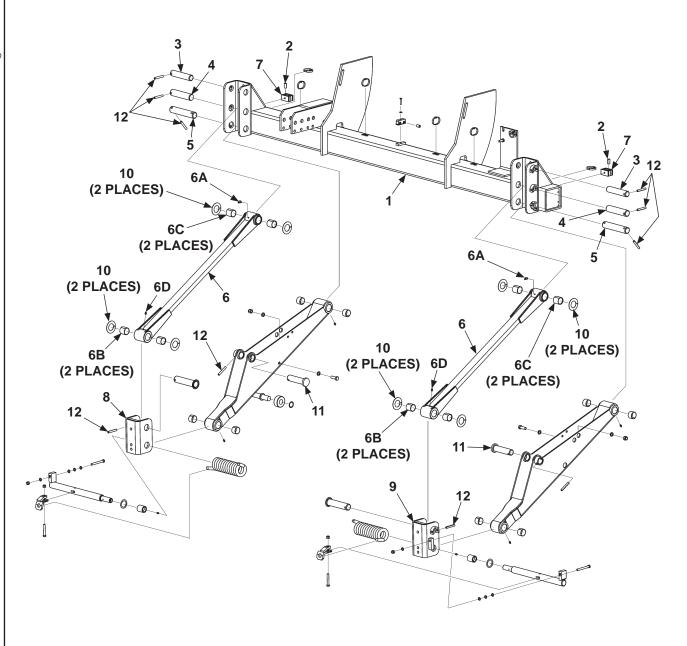
MAIN ASSEMBLY: GPTLR-25 & GPTLR-33 (STEEL PLATFORM & RAMP OPTION) - Continued



ITEM	QTY.	PART NO.	DESCRIPTION
14	4	901016-4	LOCK NUT, 3/8"-16
15	2	900035-7	CAP SCREW, 1/2"-13 X 2-1/2" LG.
16	1	281673-01	STOP BLOCK
17	2	902000-16	FLAT WASHER, 5/8"
18	4	900014-5	CAP SCREW, 3/8"-16 X 1-1/4" LG, GRADE 8
19	4	902000-10	FLAT WASHER, 3/8"

PARTS BREAKDOWN

MAIN FRAME, LIFTING ARMS, & PARALLEL ARMS: GPTLR-25 & GPTLR-33



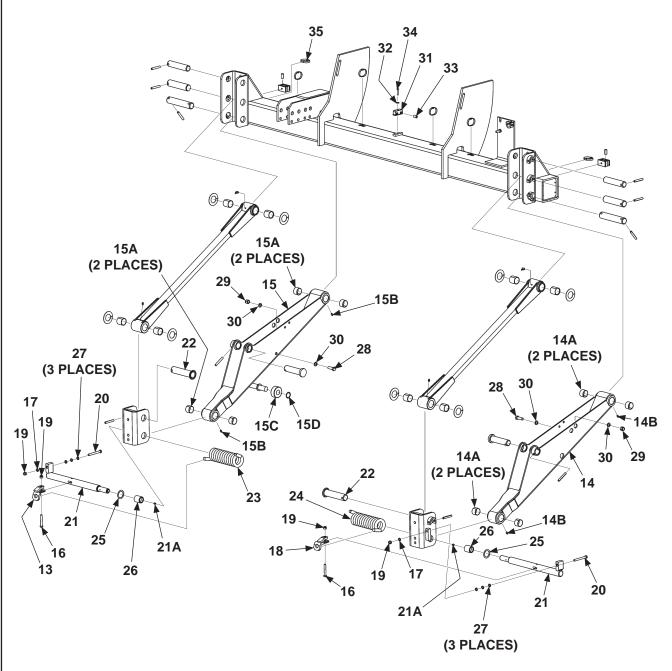
ITEM	QTY.	PART NO.	DESCRIPTION
	4	280910-02	MAIN FRAME (102" WIDE GPTLR-25/33)
1	1	280910-02G	MAIN FRAME (102" WIDE GPTLR-25/33), GALVANIZED
2	2	905140-01	RUBBER TUBING, 1/4" X 3/4" X 1" LG. (HOLD RETURN LINE)
3	2	280969-02	PIN, 1-1/4" DIA. X 5-13/16" LG.
4	2	280968-01	PIN, 1-3/8" DIA. X 5-7/8" LG.
5	2	281005-01	PIN, LIFT ARM, 7" LG.
6	2	282435-01	PARALLEL ARMS
L °	2	282435-01G	PARALLEL ARMS, GALVANIZED
6A	1	906796-01	45° LUBE FITTING
6B	2	905112-03	BEARING, SELF-LUBE, 1-3/8" LG.
6C	2	905112-04	BEARING, SELF-LUBE, 1-1/2" LG.
6D	1	224342	GREASE FITTING, 1/4" SELF-DRILLING
7	2	262415	DUAL TUBE CLAMP
8	1	280971-02	SHACKLE, LH
	ı	280971-02G	SHACKLE, LH, GALVANIZED
9	1	280971-01	SHACKLE, RH
	1	280971-01G	SHACKLE, RH, GALVANIZED
10	8	908059-01	BEARING, THRUST
11	2	281127-01	PIN, CYLINDER
12	10	904717-08	ROLL PIN, 3/8" X 2-1/2" LG.

MAXON[®] 11921 Slauson Ave.

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PARTS BREAKDOWN

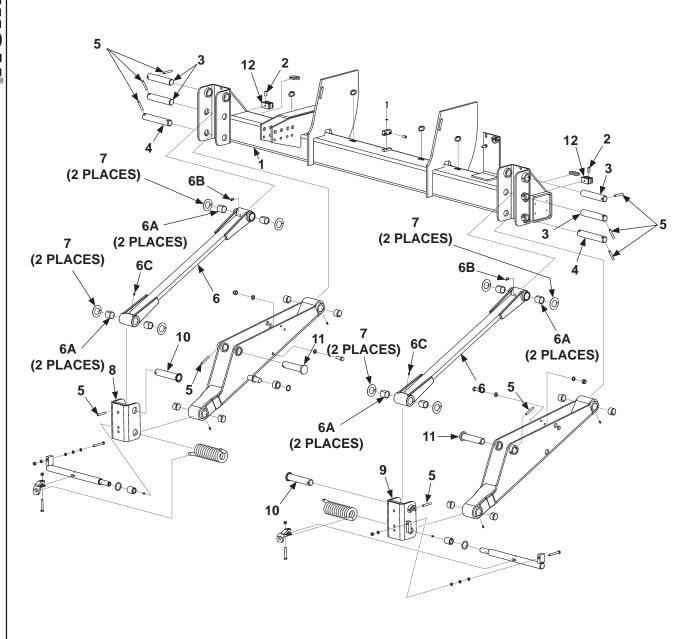
MAIN FRAME, LIFTING ARMS, & PARALLEL ARMS: **GPTLR-25 & GPTLR-33 - Continued**



ITEM	QTY.	PART NO.	DESCRIPTION
13	1	287767-01	REINFORCEMENT BRACKET (FOR USE ON LH SIDE)
44	4	282440-01G	LIFT ARM, RH, GALVANIZED
14	1	282440-01	LIFT ARM, RH
14A	4	908047-02	BEARING, SELF-LUBE
14B	2	224342	LUBE FITTING
45	1	282440-02G	LIFT ARM, LH, GALVANIZED
15	1	282440-02	LIFT ARM, LH
15A	4	908047-02	BEARING, SELF-LUBE
15B	2	224342	GREASE FITTING, 1/4" SELF-DRILLING
15C	1	282747-04	ROLLER, 1"
15D	1	903420-02	RETAINING RING, 1"
16	2	900014-10	CAP SCREW, 3/8"-16 X 2-1/2" LG, GR8
17	2	902000-10	FLAT WASHER, 3/8"
18	1	287767-02	REINFORCEMENT BRACKET (FOR USE ON RH SIDE)
19	4	901002	LOCK NUT, 3/8"-16
20	2	900014-11	CAP SCREW, 3/8"-16 X 3" LG, GR8
21	2	287680-01	PIN, SPRING
21A		224342	LUBE FITTING
22	2	280976-01	PIN, 1-3/8" X 5-13/16" LG.
23	1	280950-02	TORSION SPRING, LH (ALUMINUM PLATFORM ONLY)
24	1	281319-02	TORSION SPRING, RH (ALUMINUM PLATFORM ONLY)
25	2	903407-02	SHIM, 1 7/8"
26	2	285098-01	BUSHING, PLATFORM SPRING
27	6	903447-02	FLAT WASHER, 3/8" (IF REQUIRED TO SHIM GAP)
28	2	900035-3	CAP SCREW, 1/2"-13 X 1 1/2" LG.
29	2	901010	LOCK NUT, 1/2"-13
30	4	902000-14	FLAT WASHER, 1/2"
31	1	905071-03	DOUBLE LINE PLASTIC CLAMP
32	1	903412-01	FLAT WASHER, 1/4"
33	1	905353-11	RUBBER TUBING, .5" X .75" LG.
34	1	900719-08	BUTTUN SCREW, 1/4"-20 X 1 1/4" LG.
35	10	905322-01	PLASTIC TIE, 8"

PARTS BREAKDOWN

MAIN FRAME, LIFTING ARMS, & PARALLEL ARMS: GPTLR-44 & GPTLR-55

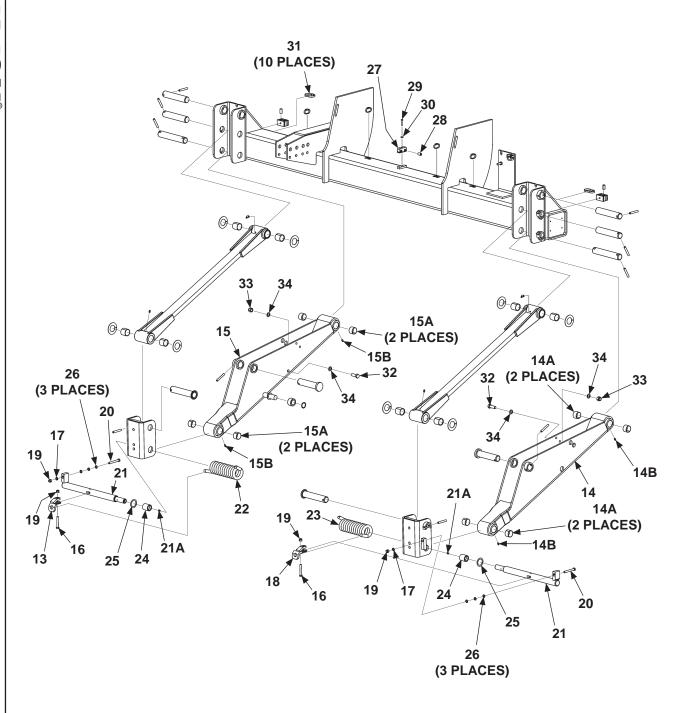


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ITEM	QTY.	PART NO.	DESCRIPTION
		282545-01G	MAIN FRAME (96" WIDE GPTLR-44/55), GALVANIZED
	_	282545-02G	MAIN FRAME (102" WIDE GPTLR-44/55), GALVANIZED
1	1	282545-01	MAIN FRAME (96" WIDE GPTLR-44/55)
		282545-02	MAIN FRAME (102" WIDE GPTLR-44/55)
2	2	905140-01	RUBBER TUBING, 1/4" X 3/4" X 1" LG. (HOLD RETURN LINE)
3	4	280968-04	PIN, 1-3/8" DIA X 7-1/8" LG.
4	2	281005-02	PIN, 8-1/16" LG.
5	10	904717-08	ROLL PIN, 3/8" X 2-1/2" LG.
6	2	282546-01G	PARALLEL ARMS, GALVANIZED
L°		282546-01	PARALLELARMS
6A	4	905112-04	BEARING, SELF-LUBE, 1-1/2" LG.
6B	1	906796-01	45° LUBE FITTING
6C	1	224342	GREASE FITTING, 1/4" SELF-DRILLING
7	8	908059-01	BEARING, THRUST
8	1	281033-02G	SHACKLE, LH, GALVANIZED
	ı	281033-02	SHACKLE, LH
9	1	281033-01G	SHACKLE, RH, GALVANIZED
	ı	281033-01	SHACKLE, RH
10	2	280976-02	PIN, 7" LG.
11	2	281119-01	PIN, CYLINDER
12	2	262415	DUAL TUBE CLAMP

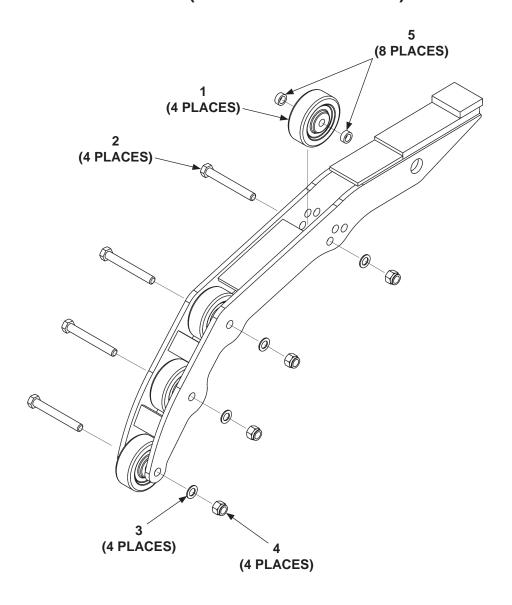
PARTS BREAKDOWN

MAIN FRAME, LIFTING ARMS, & PARALLEL ARMS: GPTLR-44 & GPTLR-55 - Continued



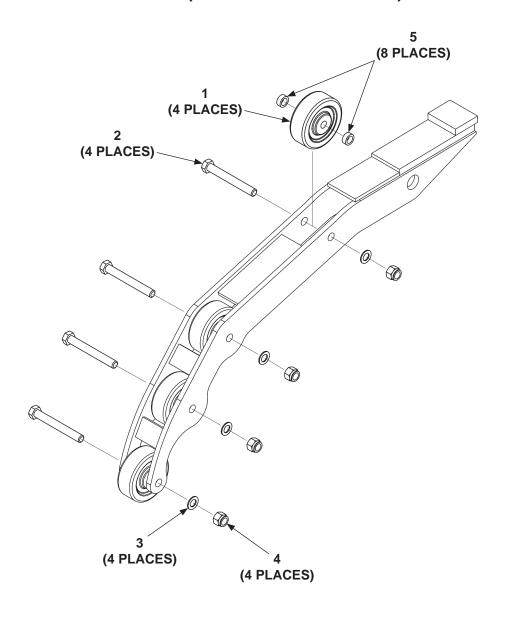
ITEM	QTY.	PART NO.	DESCRIPTION
13	1	287767-01	REINFORCEMENT BRACKET (FOR USE ON LH SIDE)
44		282543-01G	LIFT ARM, RH, GALVANIZED
14	1	282543-01	LIFT ARM, RH
14A	4	908047-02	BEARING, SELF-LUBE
14B	2	224342	LUBE FITTING
45	4	282543-02G	LIFT ARM, LH, GALVANIZED
15	1	282543-02	LIFT ARM, LH
15A	4	908047-02	BEARING, SELF-LUBE
15B	2	224342	LUBE FITTING
16	2	900014-10	CAP SCREW, 3/8"-16 X 2-1/2" LG, GRADE 8
17	6	902000-10	FLAT WASHER, 3/8"
18	1	287767-02	REINFORCEMENT BRACKET (FOR USE ON RH SIDE)
19	4	901002	LOCK NUT, 3/8"-16
20	2	900014-13	CAP SCREW, 3/8"-16 X 3 1/2" LG.
21	2	287772-01	PIN, SPRING
21A	2	224342	LUBE FITTING
22	1	280950-01	TORSION SPRING, RH (ALUMINUM PLATFORM)
23	1	281319-02	TORSION SPRING, LH (ALUMINUM PLATFORM)
24	2	285098-01	BUSHING, PLATFORM SPRING
25	2	903407-02	SHIM, 1 7/8"
26	6	903447-02	FLAT WASHER, 3/8" (IF REQUIRED TO SHIM GAP)
27	1	905071-03	DOUBLE LINE PLASTIC CLAMP
28	1	905353-11	RUBBER TUBING, .5" X .75" LG.
29	1	900719-08	BUTTUN SCREW, 1/4"-20 X 1 1/4" LG.
30	1	903412-01	FLAT WASHER, 1/4"
31	10	905322-01	PLASTIC TIE, 8"
32	2	900035-3	CAP SCREW, 1/2"-13 X 1 1/2" LG.
33	2	901010	LOCK NUT, 1/2"-13
34	4	902000-14	FLAT WASHER, 1/2"

PARTS BREAKDOWN OPENER (GPTLR-25 & GPTLR-33)



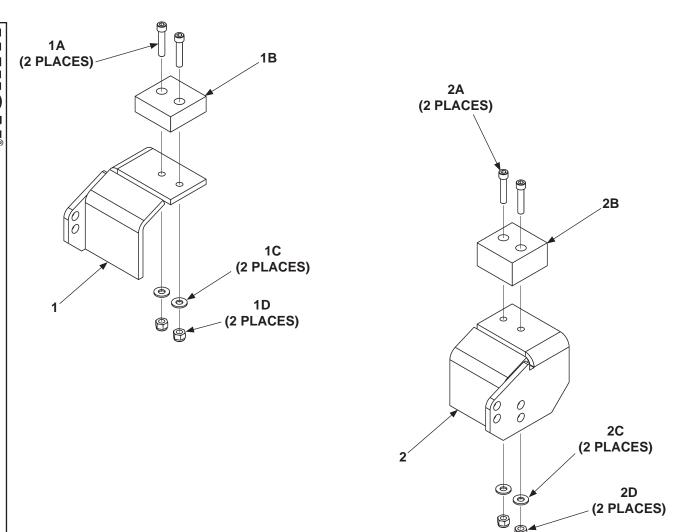
ITEM	QTY	PART NO.	DESCRIPTION
DEE	1	282275-01G	OPENER ASSEMBLY, GPTLR 25/33, GALVANIZED
REF	ı	282275-01	OPENER ASSEMBLY, GPTLR 25/33
1	4	280082-01	ROLLER, OPENER, 3-1/2" X 1-1/4" X 1/2"
2	4	900035-11	CAP SCREW, 1/2"-13 X 4" LG.
3	4	902000-14	FLAT WASHER, 1/2"
4	4	901010	LOCK NUT, 1/2"-13
5	8	092028-10	SPACER

OPENER (GPTLR-44 & GPTLR-55)



ITEM	QTY	PART NO.	DESCRIPTION
555	1	282505-01G	OPENER ASSEMBLY, GPTLR 44/55, GALVANIZED
REF	ı	282505-01	OPENER ASSEMBLY, GPTLR 44/55
1	4	280082-01	OPENER ROLLER, 3-1/2" X 1-1/4" X 1/2"
2	4	900035-11	CAP SCREW, 1/2"-13 X 4" LG.
3	4	902000-14	FLAT WASHER, 1/2"
4	4	901010	LOCK NUT, 1/2"-13
5	8	092028-10	SPACER

PARTS BREAKDOWN LH & RH PLATFORM SEATS: GPTLR-25 & GPTLR-33

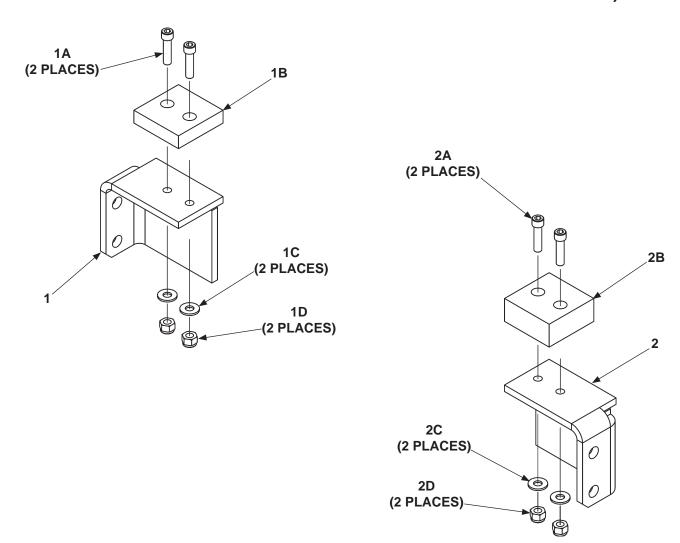


ITEM	QTY.	PART NO.	DESCRIPTION
1	1	281650-02G	PLATFORM SEAT, LH (1/2" THICK PAD), GALVANIZED
'	ı	281650-02	PLATFORM SEAT, LH (1/2" THICK PAD)
1 A	2	900025-1	SOCKET SCREW, 1/4"-20 X 1" LG.
1B	1	281649-01	PLASTIC PAD (1/2" THICK PAD)
1C	2	902013-09	FLAT WASHER, 1/4"
1D	2	901000	LOCK NUT, 1/4"-20
2	1	281653-01G	PLATFORM SEAT, RH (3/4" THICK PAD), GALVANIZED
	I	281653-01	PLATFORM SEAT, RH (3/4" THICK PAD)
2A	2	900025-5	SOCKET SCREW, 1/4"-20 X 1-1/4" LG.
2B	1	281652-01	PLASTIC PAD (3/4" THICK PAD)
2C	2	902013-09	FLAT WASHER, 1/4"
2D	2	901000	LOCK NUT, 1/4"-20

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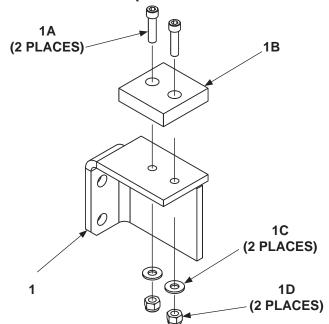
LH & RH PLATFORM SEATS: GPTLR-44 & GPTLR-55 (ONLY ALUMINUM PLATFORM WITH FIXED RAMP OR CART STOPS)

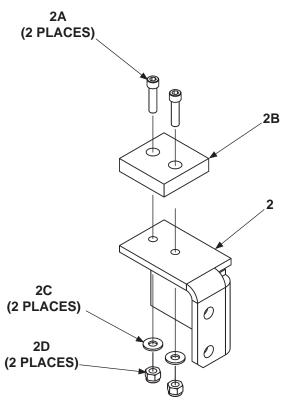


ITEM	QTY.	PART NO.	DESCRIPTION
1	1	281698-02G	PLATFORM SEAT, LH (1/2" THICK PAD), GALVANIZED
_ '	ı	281698-02	PLATFORM SEAT, LH (1/2" THICK PAD)
1A	2	900025-1	SOCKET SCREW, 1/4"-20 X 1" LG.
1B	1	281649-01	PLASTIC PAD (1/2" THICK PAD)
1C	2	902013-09	FLAT WASHER, 1/4"
1D	2	901000	LOCK NUT, 1/4"-20
2	1	281716-01G	PLATFORM SEAT, RH (3/4" THICK PAD), GALVANIZED
	ı	281716-01	PLATFORM SEAT, RH (3/4" THICK PAD)
2A	2	900025-5	SOCKET SCREW, 1/4"-20 X 1-1/4" LG.
2B	1	281652-01	PLASTIC PAD (3/4" THICK PAD)
2C	2	902013-09	FLAT WASHER, 1/4"
2D	2	901000	LOCK NUT, 1/4"-20

PARTS BREAKDOWN

LH & RH PLATFORM SEATS: GPTLR-44 & GPTLR-55 (ONLY PLATFORM WITH RETENTION RAMP)

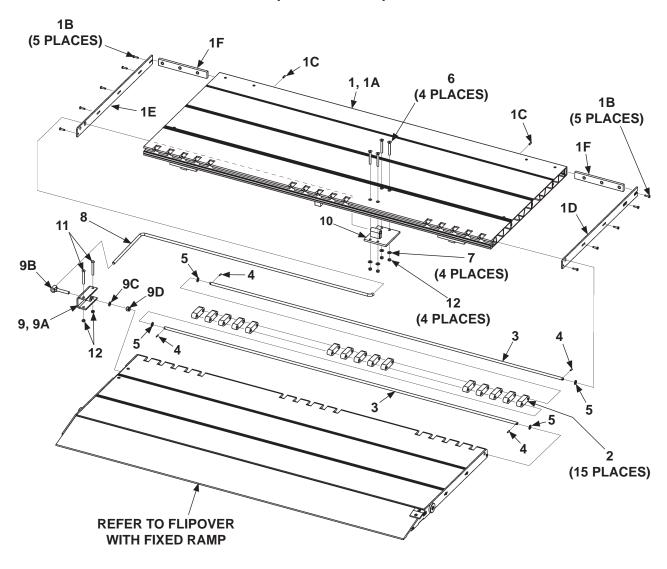




ITEM	QTY.	PART NO.	DESCRIPTION
1	4	281698-02G	PLATFORM SEAT, LH (1/2" THICK PAD), GALVANIZED
'	1	281698-02	PLATFORM SEAT, LH (1/2" THICK PAD)
1A	2	900025-1	SOCKET SCREW, 1/4"-20 X 1" LG.
1B	1	281649-01	PLASTIC PAD (1/2" THICK PAD)
1C	2	902013-09	FLAT WASHER, 1/4"
1D	2	901000	LOCK NUT, 1/4"-20
2	1	281698-01G PLATFORM SEAT	PLATFORM SEAT, RH (1/2" THICK PAD), GALVANIZED
4	'	281698-01	PLATFORM SEAT, RH (1/2" THICK PAD)
2A	2	900025-1	SOCKET SCREW, 1/4"-20 X 1" LG.
2B	1	281649-01	PLASTIC PAD (1/2" THICK PAD)
2C	2	902013-09	FLAT WASHER, 1/4"
2D	2	901000	LOCK NUT, 1/4"-20

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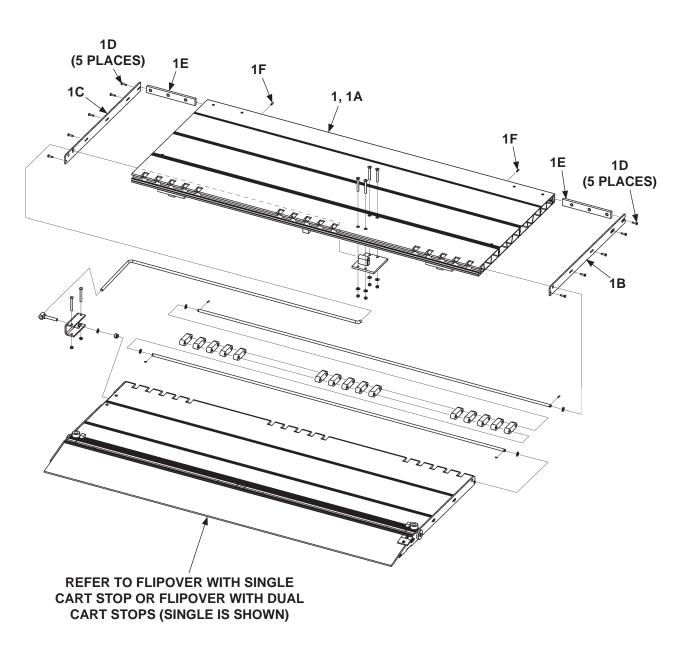
PARTS BREAKDOWN PLATFORM & FLIPOVER ASSEMBLY WITH FIXED RAMP (ALUMINUM)



ITEM	QTY.	PART NO.	DESCRIPTION	
		284825-01	PLATFORM & FLIPOVER WITH TORSION BAR, 79-1/2"	
		284825-02	PLATFORM & FLIPOVER WITH TORSION BAR, 85-1/2"	
		284825-101	PLATFORM & FLIPOVER WITH TORSION BAR, 79-1/2" (MAXGRIP)	
REF	1	284825-102	PLATFORM & FLIPOVER WITH TORSION BAR, 85-1/2" (MAXGRIP)	
		284825-201	PLATFORM & FLIPOVER WITH TORSION BAR, 79-1/2" (ANTI-SLIP COAT)	
		284825-202	PLATFORM & FLIPOVER WITH TORSION BAR, 85-1/2" (ANTI-SLIP COAT)	

ITEM	QTY.	PART NO.	DESCRIPTION
		283340-01	PLATFORM ASSEMBLY, 79-1/2" WIDE
		283340-02	PLATFORM ASSEMBLY, 85-1/2" WIDE
		283340-101	PLATFORM ASSEMBLY, 79-1/2" WIDE (MAXGRIP)
1 1	1	283340-102	PLATFORM ASSEMBLY, 85-1/2" WIDE (MAXGRIP)
		283340-201	PLATFORM ASSEMBLY, 79-1/2" WIDE (ANTI-SLIP COATING)
		283340-202	PLATFORM ASSEMBLY, 85-1/2" WIDE (ANTI-SLIP COATING)
		283345-01	PLATFORM WLDMT, 79" WIDE (STANDARD AND ANTI-SLIP COATING)
1A	1	283345-02	PLATFORM WLDMT, 85" WIDE (STANDARD AND ANTI-SLIP COATING)
		283345-101	PLATFORM WLDMT, 79" WIDE (MAXGRIP)
		283345-102	PLATFORM WLDMT, 85" WIDE (MAXGRIP)
1B	10	900705-01	SELF-TAPPING SCREW, 1/4"-20 X 3/4" LG.
1C	2	905033-3	ROLL PIN, 1/4" X 3/4" LG.
1D	1	280987-01	SIDE PLATE, RH
1E	1	281143-01	SIDE PLATE, LH
1F	2	280982-01	PLATFORM BLOCK
2	15	283354-10	HINGE SPACER
3	2	263456-12	HINGE, ROD, 80" LG. (79-1/2" WIDE PLATFORM)
		263456-13	HINGE, ROD, 86" LG. (85-1/2" WIDE PLATFORM)
4	4	905015-1	ROLL PIN, 3/16" X 3/4" LG.
5	4	902000-14	FLAT WASHER, 1/2"
6	4	900040-11	FLAT HEAD SOCKET SCREW, 3/8"-16 X 3" LG, GR8
7	4	902013-11	FLAT WASHER, 3/8"
8	1	281141-01	TORSION BAR
9	1	281135-01	TORSION BAR BRACKET ASSEMBLY
9A	1	281134-01	TORSION BAR BRACKET WLDMT
9B	1	267206-01	ANCHOR BOLT
9C	1	902000-14	FLAT WASHER, 1/2"
9D	1	901010	LOCK NUT, 1/2"-13
10	1	281410-01	TORSION BAR HOLDER
11	2	900064-07	CAP SCREW, 3/8"-16 X 3" LG.
12	2	901016-4	LOCK NUT, THIN HEAD, 3/8"-16, GR8
13	1	281531	ANTI-SKID COATING KIT (TOUCH-UP ANTI-SKID FLIPOVER)

PARTS BREAKDOWN PLATFORM & FLIPOVER ASSEMBLY WITH CART STOPS (ALUMINUM)

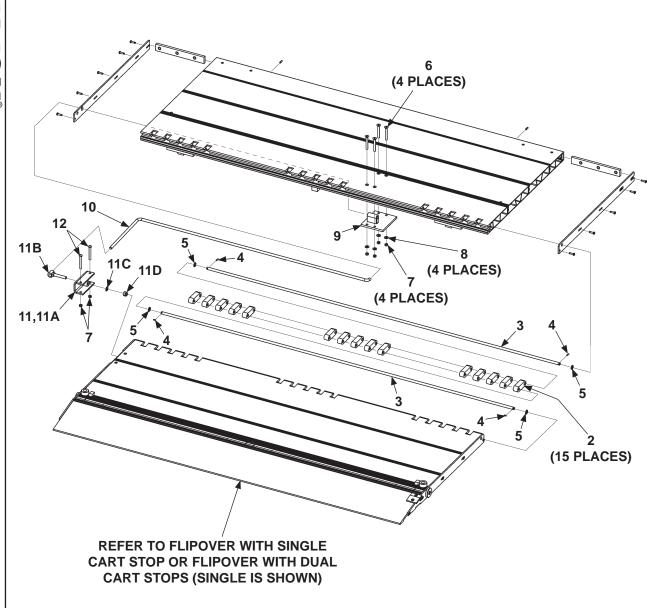


ITEM	OTV	DARTNO	DESCRIPTION
ITEM	QTY.	PART NO.	DESCRIPTION DIATEORM & FURDIVED MUTILIPLIAL CART STOR 70.4/07
		284825-31	PLATFORM & FLIPOVER WITH DUAL CART STOP, 79-1/2"
		284825-32	PLATFORM & FLIPOVER WITH DUAL CART STOP, 85-1/2"
		284825-33	PLATFORM & FLIPOVER WITH SINGLE CART STOP, 79-1/2"
		284825-34	PLATFORM & FLIPOVER WITH SINGLE CART STOP, 85-1/2"
		284825-131	PLATFORM & FLIPOVER WITH DUAL CART STOP, 79-1/2" (MAXGRIP)
		284825-132	PLATFORM & FLIPOVER WITH DUAL CART STOP, 85-1/2" (MAXGRIP)
1	REF	284825-133	PLATFORM & FLIPOVER WITH SINGLE CART STOP, 79-1/2" (MAXGRIP)
		284825-134	PLATFORM & FLIPOVER WITH SINGLE CART STOP, 85-1/2" (MAXGRIP)
		284825-231	PLATFORM & FLIPOVER WITH DUAL CART STOP, 79-1/2" (ANTI-SLIP COATING)
		284825-232	PLATFORM & FLIPOVER WITH DUAL CART STOP, 85-1/2" (ANTI-SLIP COATING)
		284825-233	PLATFORM & FLIPOVER WITH SINGLE CART STOP, 79-1/2" (ANTI-SLIP COATING)
		284825-234	PLATFORM & FLIPOVER WITH SINGLE CART STOP, 85-1/2" (ANTI-SLIP COATING)
		283340-01	PLATFORM ASSEMBLY, 79-1/2" WIDE
		283340-02	PLATFORM ASSEMBLY, 85-1/2" WIDE
		283340-101	PLATFORM ASSEMBLY, 79-1/2" WIDE (MAXGRIP)
1	1	283340-102	PLATFORM ASSEMBLY, 85-1/2" WIDE (MAXGRIP)
		283340-201	PLATFORM ASSEMBLY, 79-1/2" WIDE (ANTI-SLIP COATING)
		283340-202	PLATFORM ASSEMBLY, 85-1/2" WIDE (ANTI-SLIP COATING)
		283345-01	PLATFORM WLDMT, 79" WIDE (STANDARD AND ANTI-SLIP COATING)
1A	1	283345-02	PLATFORM WLDMT, 85" WIDE (STANDARD AND ANTI-SLIP COATING)
		283345-101	PLATFORM WLDMT, 79" WIDE (MAXGRIP)
		283345-102	PLATFORM WLDMT, 85" WIDE (MAXGRIP)
1B	1	280987-01	SIDE PLATE, RH, PLATFORM
1C	1	281143-01	SIDE PLATE, LH, PLATFORM
1D	10	900705-01	SELF-TAPPING SCREW, 1/4"-20 X 1" LG.
1E	2	280982-01	PLATFORM BLOCK
1F	2	905033-3	ROLL PIN, 1/4" X 3/4" LG.

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PARTS BREAKDOWN

PLATFORM & FLIPOVER ASSEMBLY WITH CART STOPS (ALUMINUM) - Continued

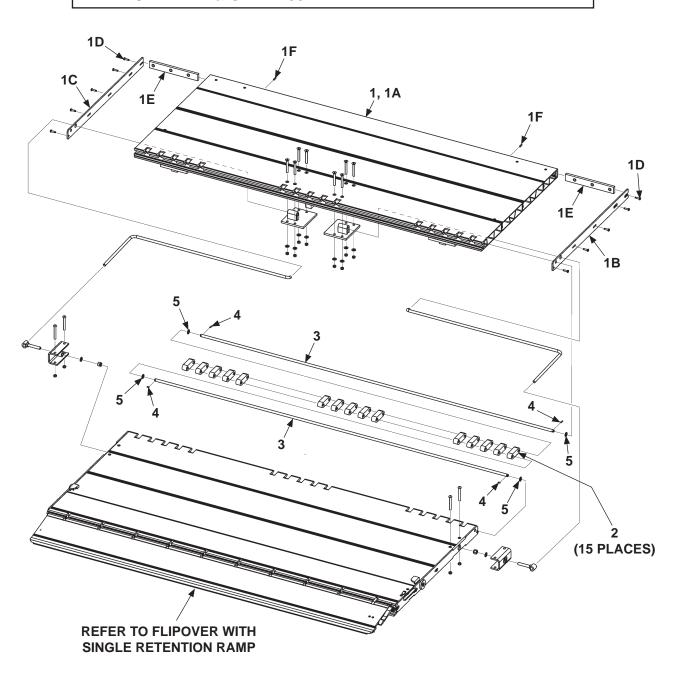


ITEM	QTY.	PART NO.	DESCRIPTION
2	15	283354-10	HINGE SPACER
	2	263456-12	HINGE, ROD, 80" LG. (79-1/2" WIDE PLATFORM)
3	2	263456-13	HINGE, ROD, 86" LG. (85-1/2" WIDE PLATFORM)
4	4	905015-1	ROLL PIN, 3/16" X 3/4" LG.
5	4	902000-14	FLAT WASHER, 1/2"
6	4	900040-11	FLAT HEAD SOCKET SCREW, 3/8"-16 X 3" LG, GR8
7	6	901016-4	LOCK NUT, THIN HEAD, 3/8"-16, GR8
8	4	902013-11	FLAT WASHER, 3/8"
9	1	281410-01	TORSION BAR HOLDER
10	1	281141-01	TORSION BAR
11	1	281135-01	TORSION BAR BRACKET ASSEMBLY
11A	1	281134-01	TORSION BAR BRACKET WLDMT
11B	1	267206-01	ANCHOR BOLT
11C	1	902000-14	FLAT WASHER, 1/2"
11D	1	901010	LOCK NUT, 1/2"-13
12	2	900064-07	CAP SCREW, 3/8"-16 X 3" LG.
13	1	281531	ANTI-SKID COATING KIT (TOUCH-UP ANTI-SKID FLIPOVER)

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PARTS BREAKDOWN PLATFORM & FLIPOVER ASSEMBLY WITH SINGLE RETENTION RAMP (ALUMINUM)

NOTE: This platform & flipover with retention ramp is only available for GPTLR-44 & GPTLR-55.



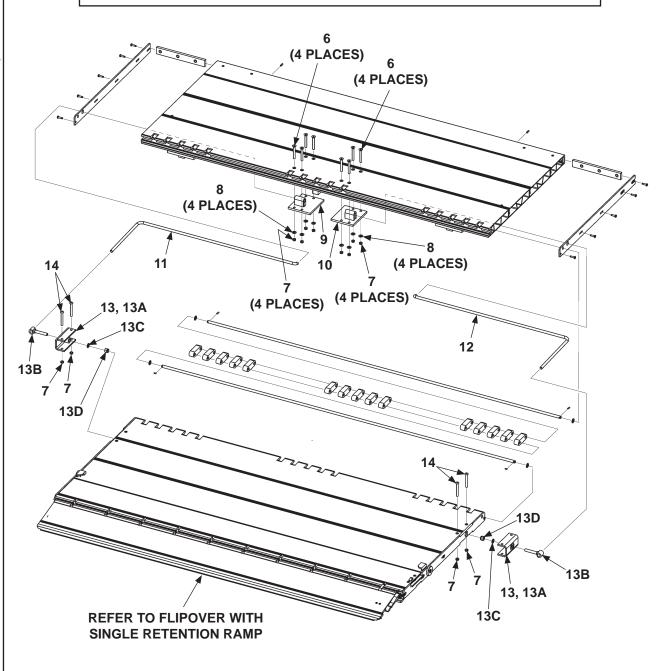
ITEM	QTY.	PART NO.	DESCRIPTION
		284825-41	PLATFORM & FLIPOVER WITH SGL RET RAMP, 79-1/2"
		284825-42	PLATFORM & FLIPOVER WITH SGL RET RAMP, 85-1/2"
		284825-141	PLATFORM & FLIPOVER WITH SGL RET RAMP, 79-1/2" (MAXGRIP)
REF	1	284825-142	PLATFORM & FLIPOVER WITH SGL RET RAMP, 85-1/2" (MAXGRIP)
		284825-241	PLATFORM & FLIPOVER WITH SGL RET RAMP, 79-1/2" (ANTI-SLIP COATING)
		284825-242	PLATFORM & FLIPOVER WITH SGL RET RAMP, 85-1/2" (ANTI-SLIP COATING)
		283340-03	PLATFORM ASSEMBLY WITH SGL RET RAMP, 79-1/2" WIDE
		283340-04	PLATFORM ASSEMBLY WITH SGL RET RAMP, 85-1/2" WIDE
		283340-103	PLATFORM ASSEMBLY WITH SGL RET RAMP, 79-1/2" WIDE (MAXGRIP)
1	1	283340-104	PLATFORM ASSEMBLY WITH SGL RET RAMP, 85-1/2" WIDE (MAXGRIP)
		283340-203	PLATFORM ASSEMBLY WITH SGL RET RAMP, 79-1/2" WIDE (ANTI-SLIP COATING)
		283340-204	PLATFORM ASSEMBLY WITH SGL RET RAMP, 85-1/2" WIDE (ANTI-SLIP COATING)
	1	283345-03	PLATFORM WLDMT FOR RETENTION RAMP, 79" WIDE (STANDARD AND ANTI-SLIP COATING)
1 _A		283345-04	PLATFORM WLDMT FOR RETENTION RAMP, 85" WIDE (STANDARD AND ANTI-SLIP COATING)
	'	283345-103	PLATFORM WLDMT FOR RETENTION RAMP, 79" WIDE (MAXGRIP)
		283345-104	PLATFORM WLDMT FOR RETENTION RAMP, 85" WIDE (MAXGRIP)
1B	1	281143-02	SIDE PLATE, RH, PLATFORM
1C	1	281143-01	SIDE PLATE, LH, PLATFORM
1D	10	900705-01	SELF-TAPPING SCREW, 1/4"-20 X 1" LG.
1E	2	280982-01	PLATFORM BLOCK
1F	2	905033-3	ROLL PIN, 1/4" DIA. X 3/4" LG.
2	15	283354-10	HINGE SPACER
3	2	263456-12	HINGE, ROD, 80" LG. (79-1/2" WIDE PLATFORM)
		263456-13	HINGE, ROD, 86" LG. (85-1/2" WIDE PLATFORM)
4	4	905015-1	ROLL PIN, 3/16" DIA. X 3/4" LG.
5	4	902000-14	FLAT WASHER, 1/2"

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PARTS BREAKDOWN

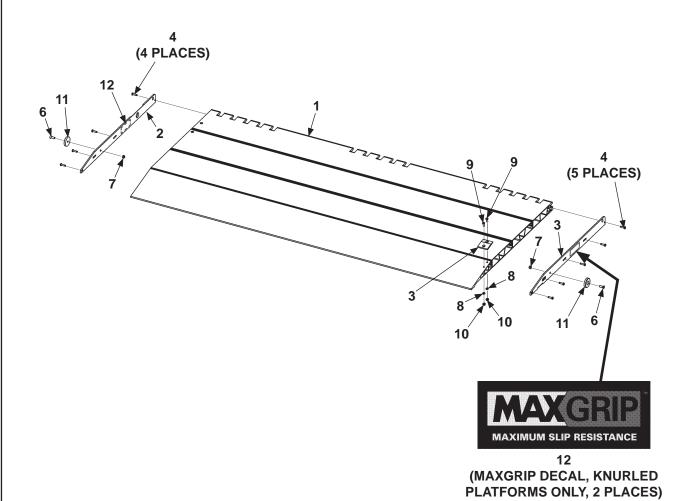
PLATFORM & FLIPOVER ASSEMBLY WITH SINGLE RETENTION RAMP (ALUMINUM) - Continued

NOTE: This platform & flipover with retention ramp is only available for GPTLR-44 & GPTLR-55.



ITEM	QTY.	PART NO.	DESCRIPTION
6	8	900014-11	FLAT HEAD SOCKET SCREW, 3/8"-16 X 3" LG, GR8
7	12	901016-4	LOCK NUT, 3/8"-16, THIN HEAD
8	8	902013-11	FLAT WASHER, 3/8"
9	1	281410-02	TORSION BAR HOLDER, RH
10	1	281410-01	TORSION BAR HOLDER, LH
11	1	281414-01	TORSION BAR, LH
12	1	281414-02	TORSION BAR, RH
13	2	281135-01	TORSION BAR BRACKET ASSEMBLY
13A	2	281134-01	TORSION BAR BRACKET WLDMT
13B	2	267206-01	ANCHOR BOLT
13C	2	902000-14	FLAT WASHER, 1/2"
13D	2	901010	LOCK NUT, 1/2"-13
14	4	900064-07	CAP SCREW, 3/8"-16 X 3" LG.
15	1	281531	ANTI-SKID COATING KIT (TOUCH-UP ANTI-SKID FLIPOVER)

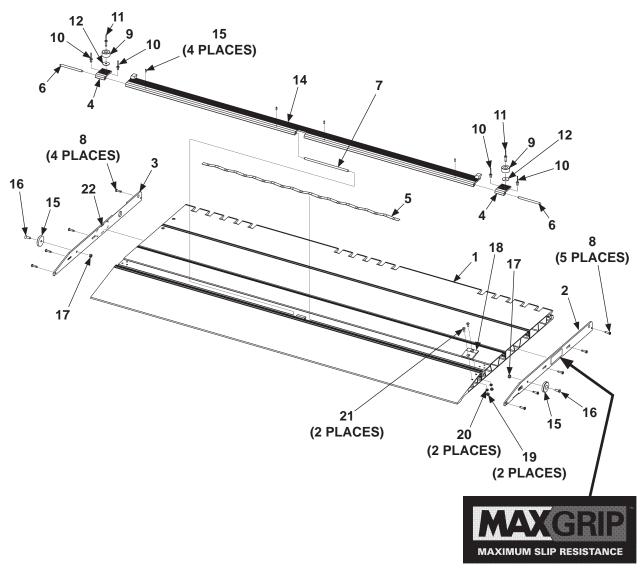
PARTS BREAKDOWN FLIPOVER WITH FIXED RAMP (ALUMINUM)



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ITEM	QTY.	PART NO.	DESCRIPTION
		284815-01	FLIPOVER ASSEMBLY FIXED RAMP, 79-1/2" WIDE
		284815-02	FLIPOVER ASSEMBLY WITH FIXED RAMP, 85-1/2" WIDE
		284815-101	FLIPOVER ASSEMBLY WITH FIXED RAMP, 79-1/2" WIDE (MAXGRIP)
REF	1	284815-102	FLIPOVER ASSEMBLY WITH FIXED RAMP, 85-1/2" WIDE (MAXGRIP)
		284815-201	FLIPOVER ASSEMBLY WITH FIXED RAMP, 79-1/2" WIDE (ANTI-SLIP COATING)
		284815-202	FLIPOVER ASSEMBLY WITH FIXED RAMP, 85-1/2" WIDE (ANTI-SLIP COATING)
		284813-01	FLIPOVER WELDMENT, 79" WIDE (STANDARD AND ANTI- SLIP COATING)
1	1	284813-02	FLIPOVER WELDMENT, 85" WIDE (STANDARD AND ANTI- SLIP COATING)
		284813-101	FLIPOVER WELDMENT, 79" WIDE (MAXGRIP)
		284813-102	FLIPOVER WELDMENT, 85" WIDE (MAXGRIP)
2	1	284816-01	SIDE PLATE, LH
3	1	284814-01	SIDE PLATE, RH
4	9	900705-01	SELF-TAPPING SCREW, 1/4"-20 X 3/4" LG.
5	1	269477-01	LATCH SUPPORT PLATE
6	2	900021-3	SOCKET HEAD SCREW, 5/16"- 18 X 1" LG.
7	2	901001	LOCK NUT, 5/16" - 18
8	2	902000-1	FLAT WASHER, 1/4"
9	2	900044-5	SOCKET HEAD SCREW, 1/4"-20 X 7/8" LG.
10	2	901016-2	LOCK NUT, 1/4"-20, THIN HEAD
11	2	284567-01	BUMPER, PLATFORM FIT
12	2	283293-01	MAXGRIP DECAL (KNURLED PLATFORMS, ONLY)

PARTS BREAKDOWN FLIPOVER WITH SINGLE CART STOP (ALUMINUM)

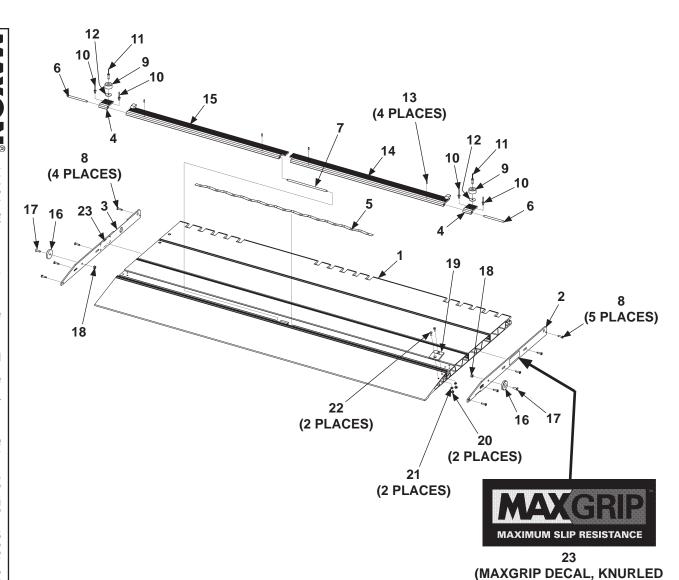


22 (MAXGRIP DECAL, KNURLED PLATFORMS ONLY, 2 PLACES)

ITEM	QTY.	PART NO.	DESCRIPTION	
		284820-03	FLIPOVER ASSEMBLY WITH CART STOP, 79-1/2" LG.	
		284820-04	FLIPOVER ASSEMBLY WITH CART STOP, 85-1/2" LG.	
		284820-103	FLIPOVER ASSEMBLY WITH CART STOP, 79-1/2" LG. (MAX-GRIP)	
REF	1	284820-104	FLIPOVER ASSEMBLY WITH CART STOP, 85-1/2" LG. (MAX GRIP)	
		284820-203	FLIPOVER ASSEMBLY WITH CART STOP, 79-1/2" LG. (ANTI-SLIP COATING)	
		284820-204	FLIPOVER ASSEMBLY WITH CART STOP, 85-1/2" LG. (ANTI-SLIP COATING)	

ITEM	QTY.	PART NO.	DESCRIPTION
		284817-01	FLIPOVER WELDMENT WITH CART STOP, 79" LG. (STAN- DARD AND ANTI-SLIP COATING)
1	1	284817-02	FLIPOVER WELDMENT WITH CART STOP, 85" LG. (STANDARD AND ANTI-SLIP COATING)
'	'	284817-101	FLIPOVER WELDMENT WITH CART STOP, 79" LG. (MAX-GRIP)
		284817-102	FLIPOVER WELDMENT WITH CART STOP, 85" LG. (MAX-GRIP)
2	1	284814-01	SIDE PLATE, RH
3	1	284816-01	SIDE PLATE, LH
4	2	267088-01	CART STOP LINK
5	1	267581-01	SPRING, CART STOP, 42" LG.
6	2	267094-03	PIN, 5" LG.
7	1	267094-04	PIN, 9-3/4" LG.
8	9	900705-01	SELF-TAPPING SCREW, 1/4"-20 X 3/4" LG.
9	2	905314-05	BUMPER
10	4	903705-02	RIVET, BLIND, 1/4" X 5/8" LG.
11	2	903705-06	RIVET, BLIND, 1/4" X 1-7/32" LG.
12	2	903409-07	FENDER WASHER, 9/32" X 1-1/4" O.D.
13	4	904719-03	ROLL PIN, 3/16" THK. X 9/16" LG, STAINLESS STEEL
14	1	267092-08	CART STOP WELDMENT, RH, 79" LG.
'4	'	267092-09	CART STOP WELDMENT, RH, 81" LG.
15	2	284567-01	BUMPER, PLATFORM FIT
16	2	900021-3	SOCKET HEAD SCREW, 5/16"- 18 X 1" LG.
17	2	901001	LOCK NUT, 5/16" - 18
18	1	269477-01	LATCH SUPPORT PLATE
19	2	901016-2	LOCK NUT, 1/4"-20, THIN HEAD
20	2	902000-1	FLAT WASHER, 1/4"
21	2	900044-5	SOCKET HEAD SCREW, 1/4" - 20 X 7/8" LG.
22	2	283293-01	MAXGRIP DECAL (KNURLED PLATFORMS, ONLY)

PARTS BREAKDOWN FLIPOVER WITH DUAL CART STOPS (ALUMINUM)



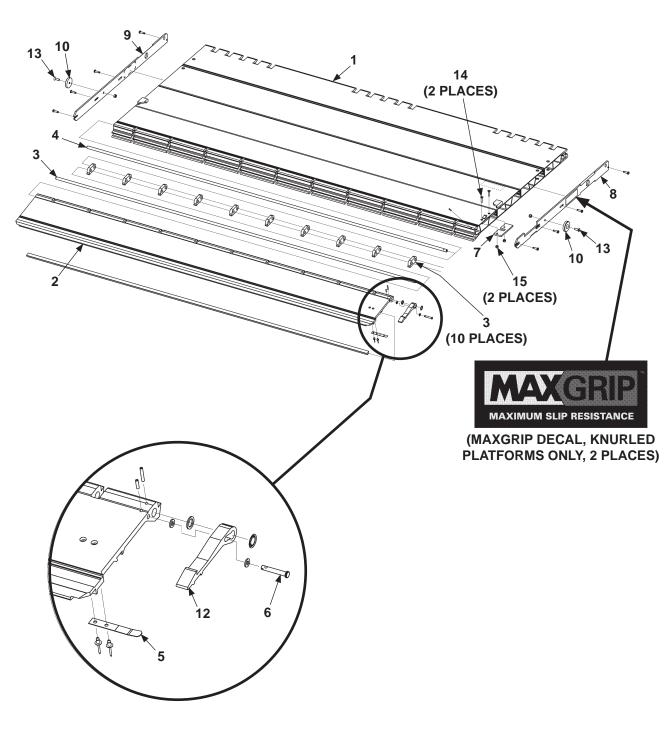
ITEM QTY. PART NO. **DESCRIPTION** 284820-01 FLIPOVER ASSEMBLY WITH CART STOPS, 79-1/2" LG. FLIPOVER ASSEMBLY WITH CART STOPS, 85-1/2" LG. 284820-02 FLIPOVER ASSEMBLY WITH CART STOPS, 79-1/2" LG. 284820-101 (MAXGRIP) FLIPOVER ASSEMBLY WITH CART STOPS, 85-1/2" LG. **REF** 1 284820-102 (MAXGRIP) FLIPOVER ASSEMBLY WITH CART STOPS, 79-1/2" LG. 284820-201 (ANTI-SLIP COATING) FLIPOVER ASSEMBLY WITH CART STOPS, 85-1/2" LG. 284820-202 (ANTI-SLIP COATING)

PLATFORMS ONLY, 2 PLACES)

ITEM	QTY.	PART NO.	DESCRIPTION
		284817-01	FLIPOVER WELDMENT WITH CART STOP, 79" LG. (STAN- DARD AND ANTI-SLIP COATING)
	1	284817-02	FLIPOVER WELDMENT WITH CART STOP, 85" LG. (STAN- DARD AND ANTI-SLIP COATING)
'	'	284817-101	FLIPOVER WELDMENT, WITH CART STOP, 79" LG. (MAX-GRIP)
		284817-102	FLIPOVER WELDMENT WITH CART STOP, 85" LG. (MAX-GRIP)
2	1	284814-01	SIDE PLATE, RH
3	1	284816-01	SIDE PLATE, LH
4	2	267088-01	CART STOP LINK
5	1	267581-01	SPRING, CART STOP, 42" LG.
6	2	267094-03	PIN, 5" LG.
7	1	267094-04	PIN, 9-3/4" LG.
8	9	900705-01	SELF-TAPPING SCREW, 1/4"-20 X 1" LG.
9	2	905314-05	BUMPER
10	4	903705-02	RIVET, BLIND, 1/4" X 5/8" LG.
11	2	903705-06	RIVET, BLIND, 1/4" X 1-7/32" LG.
12	2	903409-07	FENDER WASHER, 9/32" X 1-1/4" O.D.
13	4	904719-03	ROLL PIN, 3/16" THK. X 9/16" LG, STAINLESS STEEL
14	1	267092-04	CART STOP WELDMENT, DUAL, RH, 37-3/8" LG. (79" P/F)
'4	'	267092-06	CART STOP WELDMENT, DUAL, RH, 40-3/8" LG. (85" P/F)
15	1	267092-05	CART STOP WELDMENT, DUAL, LH, 37-3/8" LG. (79" P/F)
	'	267092-07	CART STOP WELDMENT, DUAL, LH, 40-3/8" LG. (85" P/F)
16	2	284657-01	BUMPER, PLATFORM FIT
17	2	900021-3	SOCKET HEAD SCREW, 5/16"-18 X 1" LG.
18	2	901001	LOCK NUT, 5/16"-18
19	1	269477-01	LATCH SUPPORT PLATE
20	2	901016-2	LOCK NUT, 1/4"-20, THIN HEAD
21	2	902000-1	FLAT WASHER, 1/4"
22	2	900044-5	SOCKET HEAD SCREW, 1/4"-20 X 7/8", LG.
23	1	283293-01	MAXGRIP DECAL (KNURLED PLATFORMS, ONLY)

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PARTS BREAKDOWN FLIPOVER WITH SINGLE RETENTION RAMP (ALUMINUM)



ITEM	QTY.	PART NO.	DESCRIPTION
		284655-01	FLIPOVER ASSEMBLY WITH SINGLE RETENTION RAMP, 79-1/2" LG.
		284655-02	FLIPOVER ASSEMBLY WITH SINGLE RETENTION RAMP, 85-1/2" LG.
REF	1	284655-101	FLIPOVER ASSEMBLY WITH SINGLE RETENTION RAMP, 79-1/2" LG. (MAXGRIP)
KEF	'	284655-102	FLIPOVER ASSEMBLY WITH SINGLE RETENTION RAMP, 85-1/2" LG. (MAXGRIP)
		284655-201	FLIPOVER ASSEMBLY WITH SINGLE RETENTION RAMP, 79-1/2" LG. (ANTI-SLIP COATING)
		284655-202	FLIPOVER ASSEMBLY WITH SINGLE RETENTION RAMP, 85-1/2" LG. (ANTI-SLIP COATING)
		284564-01	FLIPOVER WELDMENT WITH SINGLE RETENTION RAMP, 79" LG. (STANDARD AND ANTI-SLIP COATING)
1	4	284564-02	FLIPOVER WELDMENT WITH SINGLE RETENTION RAMP, 85" LG. (STANDARD AND ANTI-SLIP COATING)
'	1	284564-101	FLIPOVER WELDMENT WITH SINGLE RETENTION RAMP, 79" LG. (MAXGRIP)
		284564-102	FLIPOVER WELDMENT WITH SINGLE RETENTION RAMP, 85" LG. (MAXGRIP)
2	1	267041-01	RETENTION RAMP, 77-7/8" LG.
		267041-02	RETENTION RAMP, 83-7/8" LG.
3	1	267045-01	HINGE, ROD, 78-9/16" (79-1/2" LG. FLIPOVER)
	'	267045-03	HINGE, ROD, 84-9/16" (85-1/2" LG. FLIPOVER)
4	1	267045-02	HINGE, ROD, 78-3/4" (79-1/2" LG. FLIPOVER)
_ *	'	267045-04	HINGE, ROD, 84-3/4" (85-1/2" LG. FLIPOVER)
5	1	267326-01	SPRING, RETENTION RAMP HOOK
6	1	283951-01	CLEVIS PIN, 1/4" X 1-5/8" LG.
7	1	284549-01G	LATCH SUPPORT PLATE, GALVANIZED
8	1	284566-02	SIDE PLATE, RH
9	1 284566-01 SIDE PLATE, LH		SIDE PLATE, LH
10	2 284567-01 BUMPER, PLATFORM FIT		BUMPER, PLATFORM FIT
11	11 10 311022-10 HINGE SPACER		HINGE SPACER
12	1	311038-11	RETENTION RAMP HOOK
13	2 900021-3 SOCKET HEAD SCREW, 5/16" - 18 X 1" LG.		SOCKET HEAD SCREW, 5/16" - 18 X 1" LG.
14	2	900711-06	SOCKET HEAD SCREW, 1/4" - 20 X 1-1/8" LG.
15	2	901000	LOCK NUT, 1/4" - 20

PARTS BREAKDOWN FLIPOVER WITH SINGLE RETENTION RAMP (ALUMINUM) - Continued

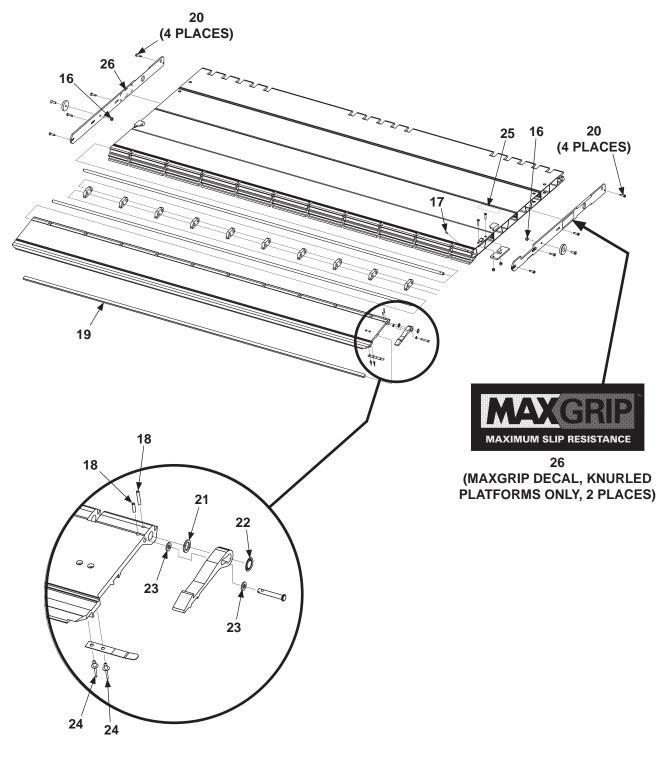
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Santa Fe Springs,

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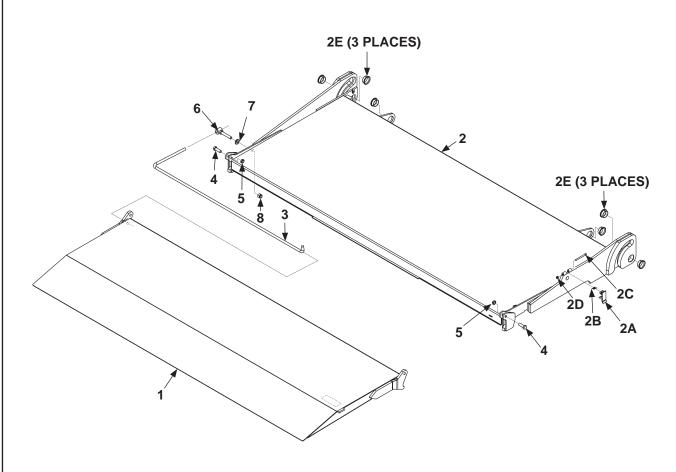


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ITEM	QTY.	PART NO.	DESCRIPTION	
16	2	901001	LOCK NUT, 5/16" - 18	
17	1	905007-03	ROLL PIN, 5/32" X 5/8" LG.	
18	2	905007-07	ROLL PIN, 5/32" X 1" LG.	
19	1	905318-01	BUMPER, 74-1/2" LG.	
19	'	905318-02	BUMPER, 80-1/2" LG.	
20	8	900705-01	SELF-TAPPING SCREW, 1/4"- 20 X 3/4" LG.	
21	1	903413-02	FLAT WASHER, NYLON, 1/2"	
22	1	903420-01	RETAINING RING, SELF LOCKING, 1/2"	
23	2	903421-02	WASHER, NYLON, 1/4"	
24	2	904005-1	RIVET, 3/16" DIA. X 7/16" LG.	
25	1	267694-01	DECAL, CAUTION LATCH	
26	1	283293-01	MAXGRIP DECAL (KNURLED PLATFORMS, ONLY)	

PARTS BREAKDOWN PLATFORM & FLIPOVER ASSEMBLY (STEEL)

NOTE: This steel platform & flipover assembly is only available for GPTLR-25 & GPTLR-33.



1	1 1	284845-01	FLIPOVER WELDMENT, 79" LG.	
'		284845-02	FLIPOVER WELDMENT, 85" LG.	
2		284824-01	PLATFORM ASSEMBLY, 79" LG.	
2	1	284824-02	PLATFORM WELDMENT, 85" LG.	
2A	1	284645-01	PLATFORM LATCH	
2B	1	284568-01	TORSION SPRING	
2C	1	900732-14	SKT HEAD SCREW, 1/4"-20 X 2-3/4" LG, STAINLESS STL	
2D	1	903137-01	LOCK NUT, 1/4"-20, STAINLESS STEEL	
2E	6	908008-02	BEARING, FLANGED, 5/8" LG.	
3	1	281302-01	TORSION BAR	
4	2	900033-3	CAP SCREW, 1/2"-20 X 1-1/2" LG, GR8	
5	2	901016-1	LOCK NUT, THIN HEAD, 1/2"-20, GR8	
6	1	280749-02	ANCHOR BOLT WELDMENT	
7	1	902000-14	FLAT WASHER, 1/2"	
8	1	901010	LOCK NUT, 1/2"-13, GR8	
8	1	901010	LOCK NUT, 1/2"-13, GR8	

DESCRIPTION

PLATFORM & FLIPOVER ASSEMBLY, 79" LG.

PLATFORM & FLIPOVER ASSEMBLY, 85" LG.

PART NO.

284840-01

284840-02

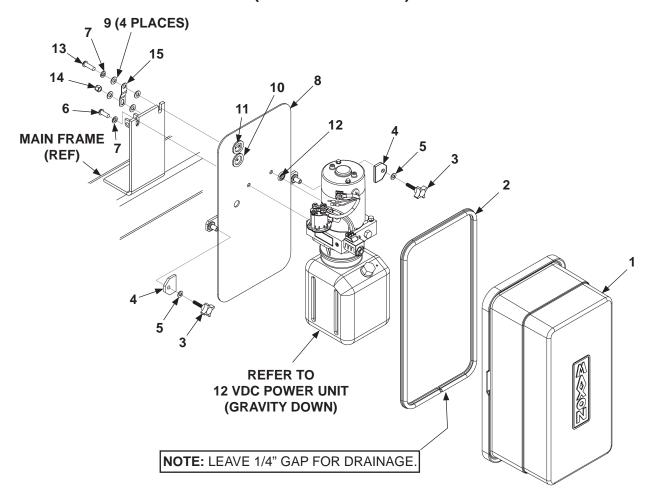
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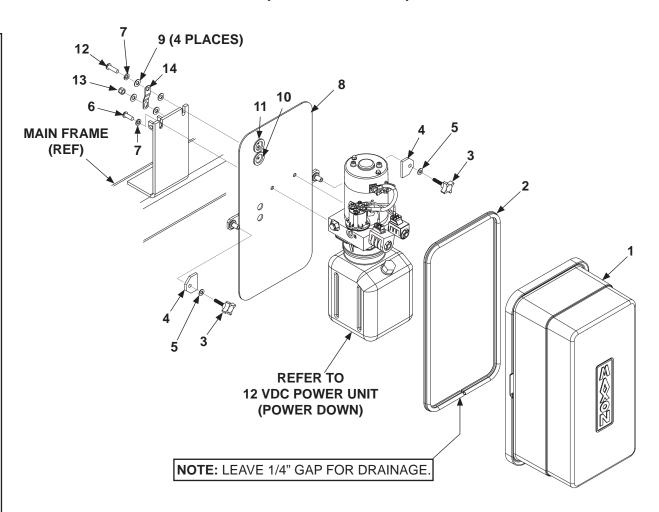
PARTS BREAKDOWN PUMP COVER & MOUNTING PLATE ASSEMBLY (GRAVITY DOWN)



ITEM	QTY.	PART NO.	DESCRIPTION
REF	1	285201-01	PUMP ASSEMBLY, GRAVITY DOWN
KEF		285201-01G	PUMP ASSEMBLY, GRAVITY DOWN, GALVANIZED
1	1	281038-01	COVER ASSEMBLY
2	1	093203-10	BULB SEAL, NEOPRENE, 60" LG.
3	2	286729-01	KNOB/STUD ASSYEMBLY
4	2	281062-02	HOLDER FLATS
5	2	902013-10	FLAT WASHER, 5/16"
6	1	900064-05	BUTTONHEAD SCREW, 3/8"-16 X 1" LG.
7	2	902011-4	LOCK WASHER, 3/8"
8	1	285171-01G	PLATE, PUMP MOUNT, GALVANIZED
°	ı	285171-01	PLATE, PUMP MOUNT
9	4	902013-11	FLAT WASHER, 3/8"
10	1	266428-02	GROMMET, 1/4" HOLE
11	1	266428-08	GROMMET, 3/16" HOLE & 5/16" HOLE
12	1	281068-01	GROMMET, RUBBER
13	1	900064-06	BUTTONHEAD SCREW, 3/8"-16 X 1-1/4" LG.
14	1	901002	LOCK NUT, 3/8"-16, NYLON
15	1	282895-01	JUMPER, GROUND

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PUMP COVER & MOUNTING PLATE ASSEMBLY (POWER DOWN)

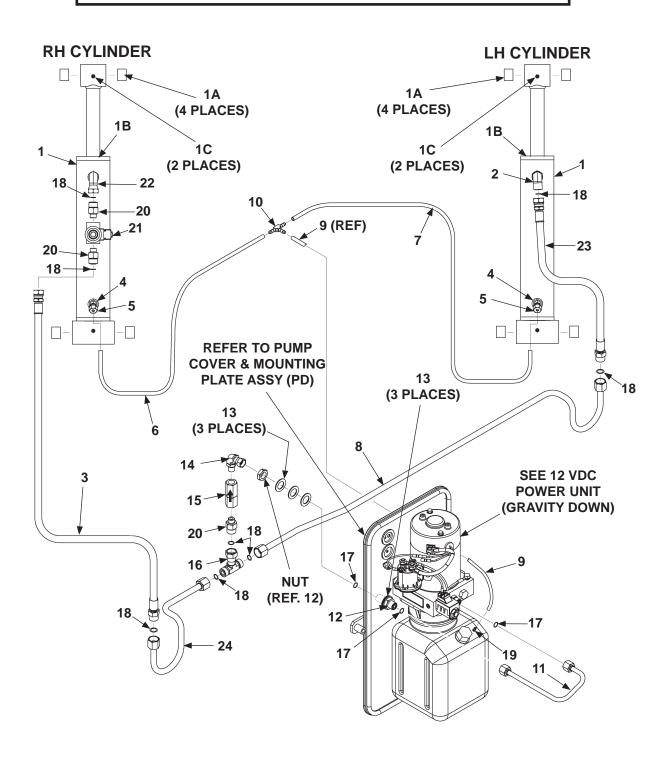


ITEM	QTY.	PART NO.	DESCRIPTION	
REF	_	285202-01G	PUMP ASSEMBLY, GALVANIZED	
KEF	1	285202-01	PUMP ASSEMBLY	
1	1	281038-01	COVER ASSY	
2	1	093203-10	BULB SEAL, NEOPRENE, 60" LG.	
3	2	286729-01	KNOB/STUD ASSYEMBLY	
4	2 281062-02 HOLDER FLATS		HOLDER FLATS	
5	5 2 902013-10 FLAT WASHER, 5/16"		FLAT WASHER, 5/16"	
6	1	900064-05	BUTTONHEAD SCREW, 3/8"-16 X 1" LG.	
7	2	902011-4	LOCK WASHER, 3/8"	
8	1	285181-01G	PLATE, PUMP MOUNT, GALVANIZED	
L	ı	285181-01	PLATE, PUMP MOUNT	
9	4	902013-11	FLAT WASHER, 3/8"	
10	1	266428-02	GROMMET, 1/4" HOLE	
11	1	266428-08	GROMMET, 3/16" HOLE & 5/16" HOLE	
12	1	900064-06	BUTTONHEAD SCREW, 3/8"-16 X 1-1/4" LG.	
13	1	901002	LOCK NUT, 3/8"-16, NYLON	
14	1	282895-01	JUMPER, GROUND	

PARTS BREAKDOWN GRAVITY DOWN HYDRAULIC COMPONENTS

CAUTION

To prevent incorrect operation & damage to Liftgate, make sure arrow on flow regulator valve points up as shown in illustration.



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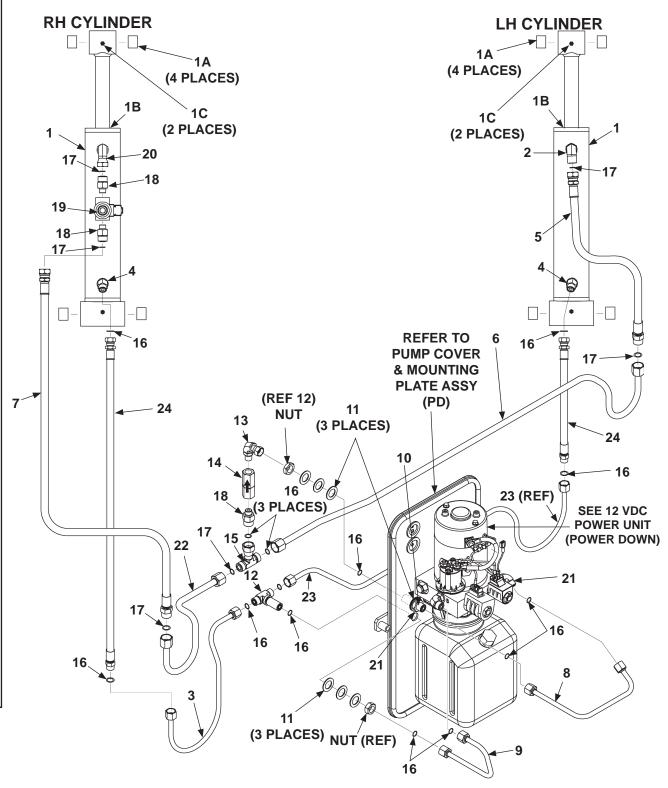
ITEM	QTY.	PART NO.	DESCRIPTION	
1		280990-01	CYLINDER, 2-3/4" x 11-1/2" STROKE (GPTLR-25/33)	
	2	281035-01	CYLINDER, 3-1/4" X 12-1/2" STROKE (GPTLR-44)	
		281040-01	CYLINDER, 3-1/2" X 12-1/2" STROKE (GPTLR-55)	
1A	4	908046-02	SELF-LUBE BEARING (GPTLR-25/33 CYLINDER)	
I TA	4	908047-02	SELF-LUBE BEARING (GPTLR-44/55 CYLINDER)	
		280990SK-01	SEAL KIT (GPTLR-25/33 CYLINDER)	
1B	1	281035SK-01	SEAL KIT (GPTLR-44 CYLINDER)	
		281040SK-01	SEAL KIT (GPTLR-55 CYLINDER)	
1C	2	224342	GREASE FITTING	
2	1	906704-01	ELBOW, 90° FACE SEAL, #8 M-M (WITH O-RING)	
3	1	285177-01	HOSE, HP, 3/8", F/S #8-8, M-F, RH UP (27-1/2" LG)	
4	2	228012	ADAPTER, STRAIGHT THREAD, 9/16"-18 M - 1/4" F	
5	2	263811	ELBOW, MALE 45°	
6	1	224370-21	HOSE, PLASTIC 44" LG.	
7	1	224370-22	HOSE, PLASTIC 107" LG.	
8	1	284941-01	FACE SEAL TUBE ASSY, 1/2" OD, PWR UP, LONG	
9	1	224370-20	HOSE, PLASTIC 9" LG.	
10	1	906749-01	UNION TEE	
11	1	285173-01	FACE SEAL TUBE ASSY (3/8" TUBING)	
12	1	906744-01	BULKHEAD UNION (FACE SEAL, SAE#6 M-M)	
13	6	902028-12	FLAT WASHER, 3/4"	
14	1	906708-01	ELBOW, O-RING, #6 M-F SWIVEL	
15	1	906709-04	FLOW REGULATOR VALVE, 4.5 GPM	
16	1	906769-01	BRANCH TEE, #8, M-M, FACE SEAL	
17	3	906712-02	O-RING, #6 (3/8" FACE SEAL, TUBE-END)	
18	8	906712-03	O-RING, #8 (1/2" FACE SEAL, TUBE-END)	
19	1	906728-01	DUAL BARBED FITTING	
20	3	906762-01	CONNECTOR, #8 FACE SEAL, #6 O-RING	
21	1	282620-07	HYDRAULIC LOCK VALVE ASSEMBLY (12V)	
22	1	906763-01	CONNECTOR ELBOW, M-M, 9/16"-18 X 13/16"-16 (WITH O-RING)	
23	1	285178-01	HOSE ASSY, HP 3/8" F/S #8, M-F, LH UP	
24	1	284933-01	FACE SEAL, TUBE ASSY, 1/2" OD, PWR UP, SHORT	

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PARTS BREAKDOWN POWER DOWN HYDRAULIC COMPONENTS

CAUTION

To prevent incorrect operation & damage to Liftgate, make sure arrow on flow regulator valve points up as shown in illustration.

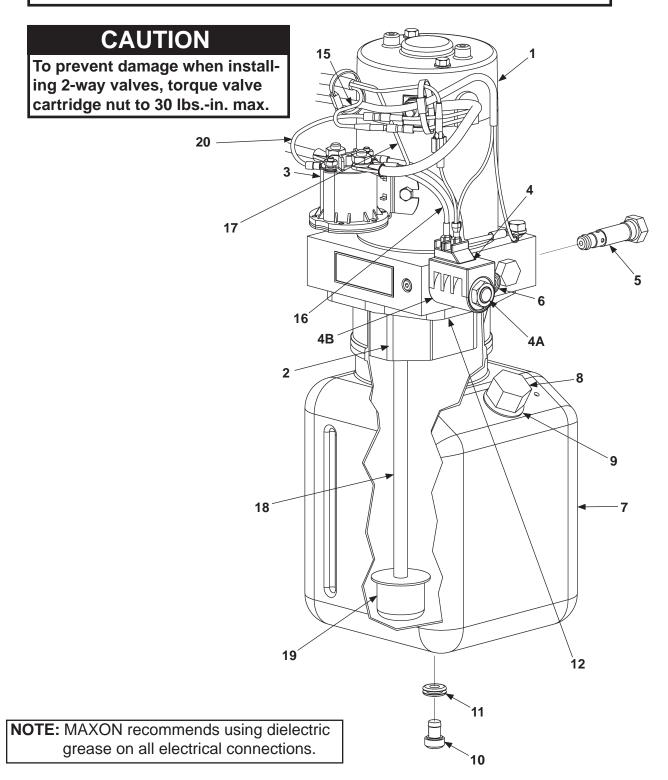


ITEM	QTY.	PART NO.	DESCRIPTION
		280990-01	CYLINDER, 2-3/4" x 11-1/2" STROKE (GPTLR-25/33)
1	2	281035-01	CYLINDER, 3-1/4" X 12-1/2" STROKE (GPTLR-44)
		281040-01	CYLINDER, 3-1/2" X 12-1/2" STROKE (GPTLR-55)
4.0	4	908046-02	SELF-LUBE BEARING (GPTLR-25/33 CYLINDER)
1A	4	908047-02	SELF-LUBE BEARING (GPTLR-44/55 CYLINDER)
		280990SK-01	SEAL KIT (GPTLR-25/33 CYLINDER)
1B	1	281035SK-01	SEAL KIT (GPTLR-44 CYLINDER)
		281040SK-01	SEAL KIT (GPTLR-55 CYLINDER)
1C	2	224342	GREASE FITTING
2	1	906704-01	ELBOW, 90° FACE SEAL, #8 M-M (WITH O-RING)
3	1	284934-01	FACE SEAL TUBE ASSY, 3/8" OD, PWR DOWN, SHORT
4	2	906775-01	ELBOW, 90° FACE SEAL, #6 M-M (WITH O-RING)
5	1	285178-01	HOSE HP 3/8", F/S #8-8, M-F, LH UP (32" LG)
6	1	284941-01	FACE SEAL TUBE ASSY, 1/2" OD, PWR UP, LONG
7	1	285177-01	HOSE , HP 3/8", F/S #8-8, M-F, RH UP (27-1/2" LG)
8	1	285183-01	HOSE FACE SEAL TUBE ASSY (3/8" OD)
9	1	285184-01	FACE SEAL TUBE ASSY (3/8" OD)
10	1	906744-01	BULKHEAD UNION, #6 (WITH O-RING)
11	12	902028-12	FLAT WASHER, 3/4"
12	1	906810-01	BRANCH TEE BULKHEAD, #6 FACE SEAL (WITH O-RING)
13	1	906708-01	ELBOW, 90° FACE SEAL, #6 M-M (WITH O-RING)
14	1	906709-04	FLOW REGULATOR VALVE, 4.5 GPM
15	1	906769-01	BRANCH TEE, #8 M-M & F, FACE SEAL (WITH O-RINGS)
16	12	906712-02	O-RING, #6 (3/8" FACE SEAL TUBE-END)
17	8	906712-03	O-RING, #8 (1/2" FACE SEAL TUBE-END)
18	3	906762-01	CONNECTOR, M-M, 9/16"-18 X 3/4" (WITH O-RING)
19	1	282620-07	HYDRAULIC LOCK VALVE ASSEMBLY (12V)
20	1	906763-01	CONNECTOR, M-M, 9/16"-18 X 13/16"-16 (WITH O-RING)
21	2	906707-01	ELBOW, 90°, FACE SEAL, #6 M-M (WITH O-RING)
22	1	284933-01	FACE SEAL TUBE ASSY, 1/2" OD, PWR UP, SHORT
23	1	284959-01	FACE SEAL TUBE ASSY, 3/8" OD, PWR DOWN, LONG
24	2	285179-01	HOSE, HP 3/8", F/S #6-6, M-F, DOWN (22" LG)

PARTS BREAKDOWN 12 VDC POWER UNIT (GRAVITY DOWN)

CAUTION

Do not over-tighten the terminal nuts on starter solenoid. For the load terminals, torque nuts to 35 lbs.-in. max. Torque the nuts on #10-32 control terminals 15 lbs.-in.

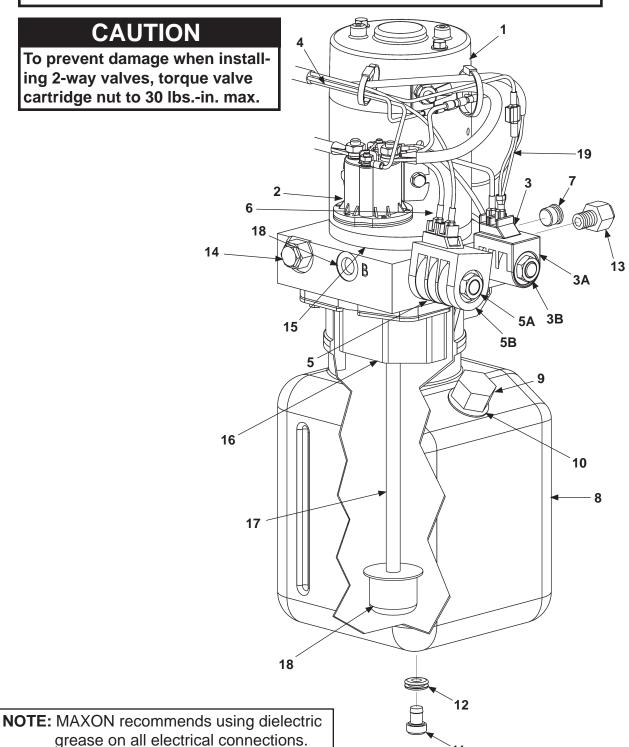


ITEM	QTY.	PART NO.	DESCRIPTION	
REF	1	285203-01	12 VDC POWER UNIT, GRAVITY DOWN	
1	1	280374	12 VDC MOTOR	
2	1	290002	3-PIECE GEAR PUMP	
3	1	268029-01	SWITCH, SOLENOID (12 VDC)	
4	1	290043	VALVE ASSEMBLY, 2-WAY	
4A	1	290044	VALVE CARTRIDGE (2-WAY VALVE)	
4B	1	290045	COIL, DOUBLE SPADE (2-WAY VALVE)	
5	1	906737-01	CARTRIDGE RELIEF VALVE	
6	1	906707-01	ELBOW, SAE #6, FACE SEAL O-RING, M-M	
7	1	281438-01	RESERVOIR, VERTICAL, 1-1/4 GALLON (5 QUARTS)	
8	1	280806-01	FILLER, BREATHER CAP	
9	1	908016-01	RUBBER GROMMET, 3/4" I.D. (FILLER CAP)	
10	1	908017-01	PLUG, DRAIN PORT	
11	1	908018-01	RUBBER GROMMET, 5/16" I.D. (DRAIN PLUG)	
12	1	290061	SEAL, SQUARE CUT (FOR RESERVOIR)	
13	1	260261	OIL SEAL (NOT SHOWN FOR 3-PIECE GEAR PUMP)	
14	1	290020	O-RING (NOT SHOWN FOR 3-PIECE GEAR PUMP)	
15	1	280404	CABLE ASSEMBLY	
16	1	280416	WIRE ASSEMBLY (#10 RING & QUICK DISCONN. TERMINALS)	
17	1	268027-01	WIRE ASSY, 18 GA (#10 RING & 5/16" RING TERMINALS)	
18	1	290075	SUCTION TUBE, PLASTIC	
19	1	290073	INLET FILTER	
20	1	268024-01	WIRE ASSEMBLY, 16 GA WHITE	

PARTS BREAKDOWN 12 VDC POWER UNIT (POWER DOWN)

CAUTION

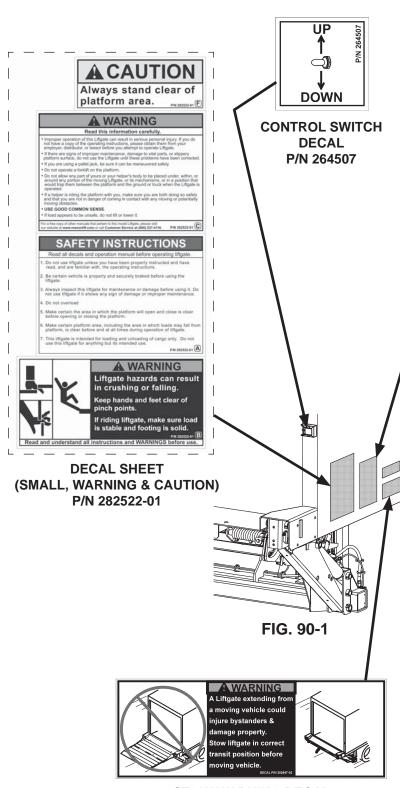
Do not over-tighten the terminal nuts on starter solenoid. For the load terminals, torque nuts to 35 lbs.-in. max. Torque the nuts on #10-32 control terminals 15 lbs.-in.

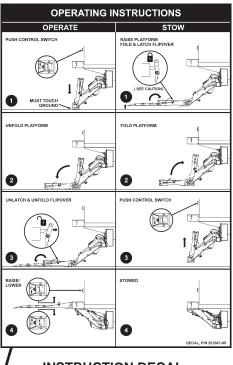


ITEM	QTY.	PART NO.	DESCRIPTION	
REF	1	285204-01	12 VDC POWER UNIT, POWER DOWN	
1	1	268176-01	12 VDC MOTOR	
2	1	268029-01	SWITCH, SOLENOID (12 VDC)	
3	1	906821-01	VALVE ASSEMBLY, 2-WAY	
3A	1	290045	COIL, DOUBLE SPADE (2-WAY VALVE)	
3B	1	906822-01	VALVE CARTRIDGE (2-WAY VALVE)	
4	1	280404	CABLE ASSEMBLY	
5	1	290046	VALVE ASSEMBLY, 4-WAY	
5A	1	290047	VALVE CARTRIDGE (4-WAY VALVE)	
5B	1	290048	COIL, DOUBLE SPADE (4-WAY VALVE)	
6	1	268079-01	WIRE ASSEMBLY, 18 GA, (#10 RING & 5/16 RING TERMINALS)	
7	1	261067	PLUG, O-RING, SAE #6	
8	1	281437-01	RESERVOIR, VERTICAL (5 QUART)	
9	1	280806-01	FILLER, BREATHER CAP	
10	1	908016-01	GROMMET (FILLER CAP)	
11	1	908017-01	PLUG, DRAIN PORT	
12	1	908018-01	RUBBER GROMMET, 5/16" I.D. (DRAIN PLUG)	
13	1	906738-02	RELIEF VALVE, ADJUSTABLE, 3200 PSI	
14	1	268174-01	RELIEF VALVE, ADJUSTABLE, 1100 PSI	
15	2	280416	WIRE ASSY (#10 RING & QUICK DISCONN. TERMINALS)	
16	1	906781-01	PUMP ASSY, POWER DOWN (GEAR PUMP & MANIFOLD)	
17	1	290103	SUCTION TUBE, PLASTIC	
18	1	290073	INLET FILTER	
19	1	268022-01	WIRE ASSEMBLY, 16GA GREEN	

FAX

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INSTRUCTION DECAL P/N 251867-09

THE MAXIMUM CAPACITY
OF THIS LIFT IS

POUNDS

WHEN THE LOAD IS CENTERED ON PLATFORM

CAPACITY DECAL (SEE TABLE 90-1)

CAPACITY DECALS				
CAPACITY	PART NO.			
2500 LBS.	220382			
3300 LBS.	220388-02			
4400 LBS.	253155			
5500 LBS.	253161			

TABLE 90-1

STOW WARNING DECAL P/N 282847-02

FIG. 90-1

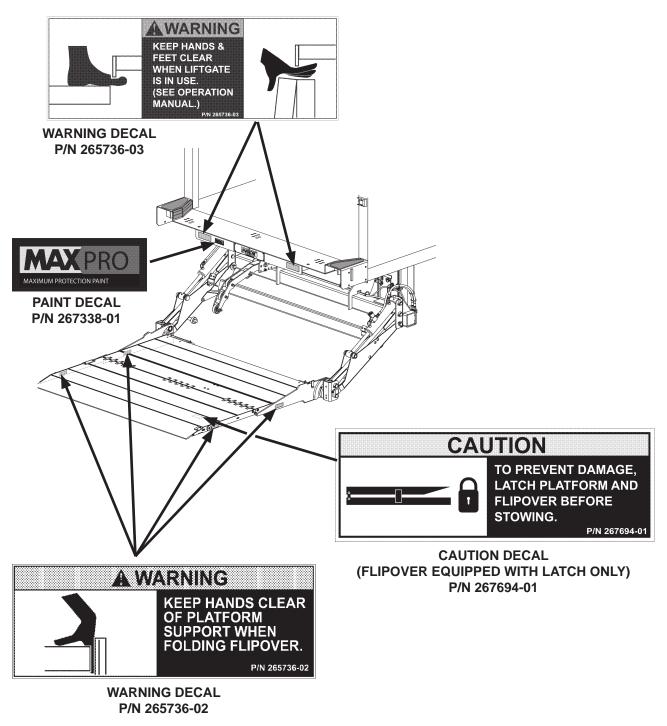


FIG. 91-1

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PARTS BREAKDOWN NONSKID & SAFETY STRIPING

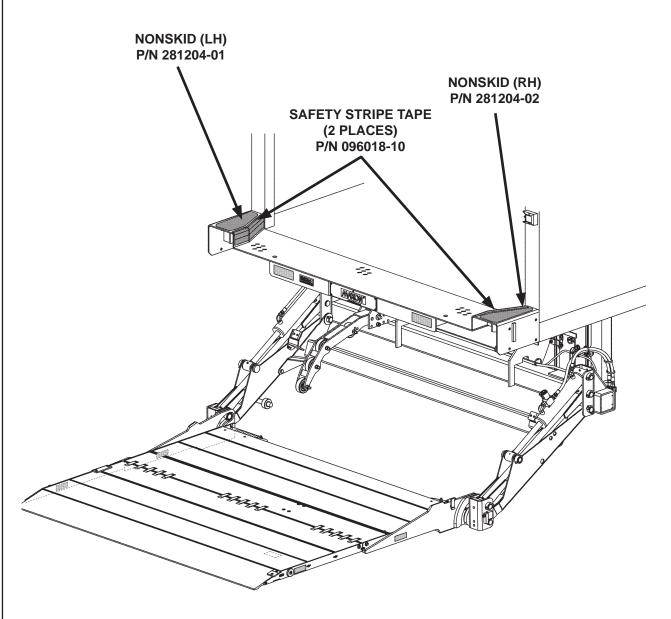
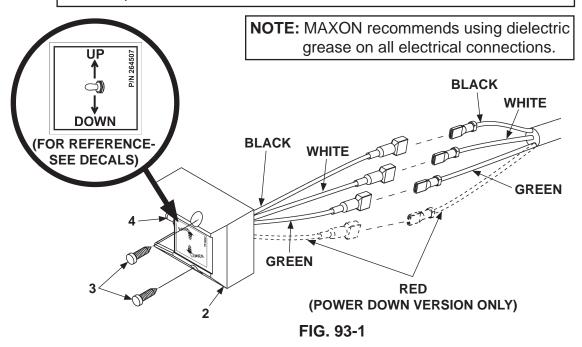


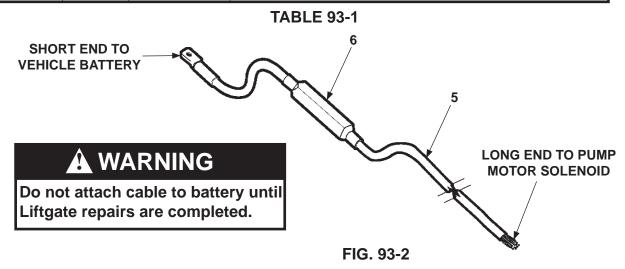
FIG. 92-1

CONTROL SWITCH AND POWER CABLE

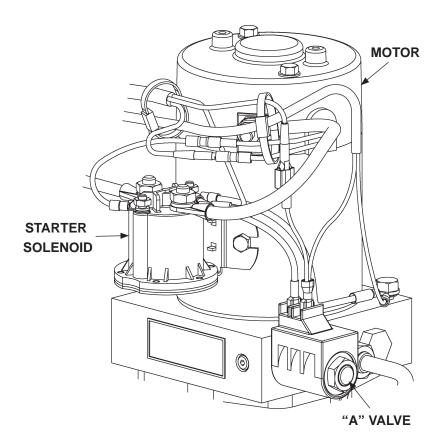
NOTE: Use switch to RAISE and LOWER Liftgate to make sure switch operates as shown on the decal.



ITEM	QTY.	PART NO.	DESCRIPTION		
1	1	268025-01	CABLE ASSEMBLY, 85" LG. (GRAVITY DOWN)		
		268170-01	CABLE ASSEMBLY, 85" LG. (POWER DOWN)		
2	1	267959-01	MOLDED SWITCH ASSEMBLY (GRAVITY DOWN)		
		264951-04	MOLDED SWITCH ASSEMBLY (POWER DOWN)		
3	2	900057-5	SCREW, SELF-TAPPING #10-24 X 1" LG.		
4	1	905206	SWITCH BOOT SEAL		
5	1	264422	CABLE ASSEMBLY, 175 AMPS, 38' LG.		
6	1	264687	KIT, MEGAFUSE (175 AMP FUSE & HEATSHRINK TUBING)		



SYSTEM DIAGRAMS PUMP & MOTOR SOLENOID OPERATION (GRAVITY DOWN)

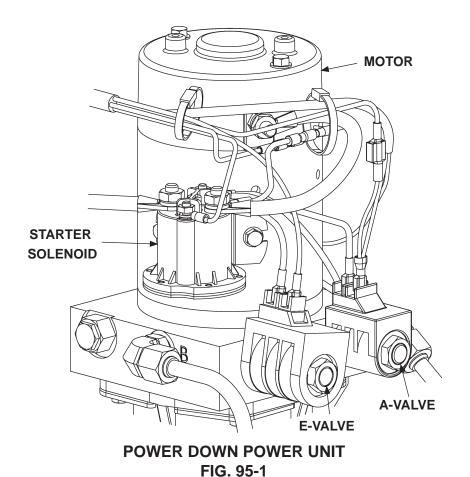


GRAVITY DOWN POWER UNIT FIG. 94-1

POWER UNIT MOTOR & SOLENOID OPERATION							
LIFTGATE	PORT	SOLENOID OPERATION (✓ MEANS ENERGIZED)					
FUNCTION		MOTOR	VALVE "A"	LOCK VALVE			
RAISE	Α	✓	-				
LOWER	VENT	ı	>	>			
REFER TO VALVES SHOWN ON							
HYDRAULIC SCHEMATIC							

TABLE 94-1

PUMP & MOTOR SOLENOID OPERATION (POWER DOWN)



POWER UNIT MOTOR & SOLENOID OPERATION SOLENOID OPERATION (✓ MEANS ENERGIZED) **LIFTGATE PORT FUNCTION VALVE VALVE LOCK MOTOR** "E" "A" **VALVE RAISE** Α **LOWER** В **REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC**

TABLE 95-1

HYDRAULIC SCHEMATIC (GRAVITY DOWN)

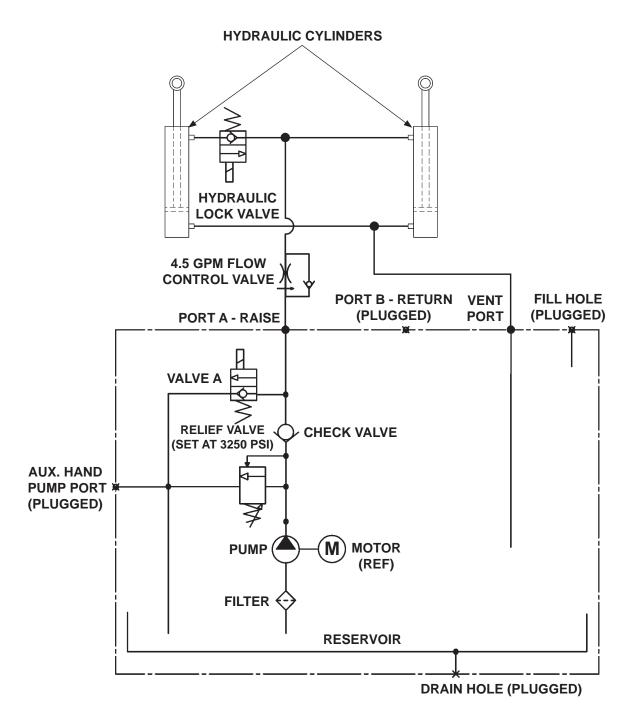


FIG. 96-1

XON[®] 1192

HYDRAULIC SCHEMATIC (POWER DOWN)

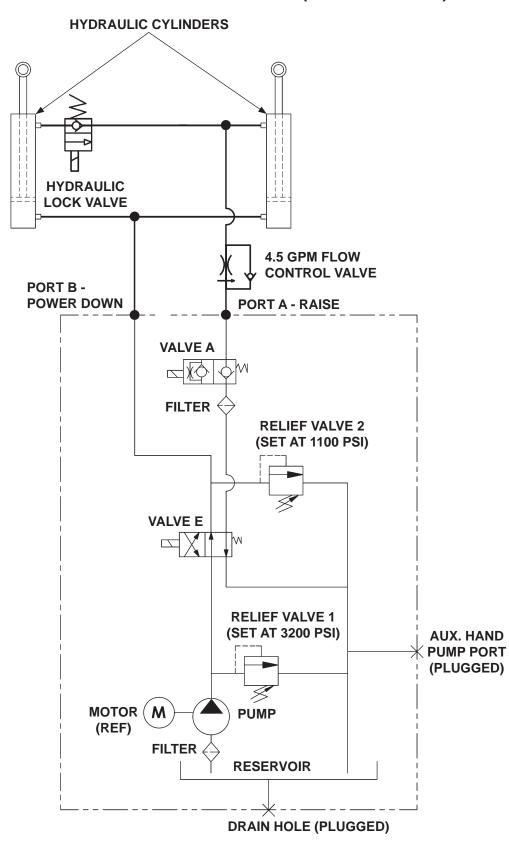


FIG. 97-1

ELECTRICAL SCHEMATIC (GRAVITY DOWN)

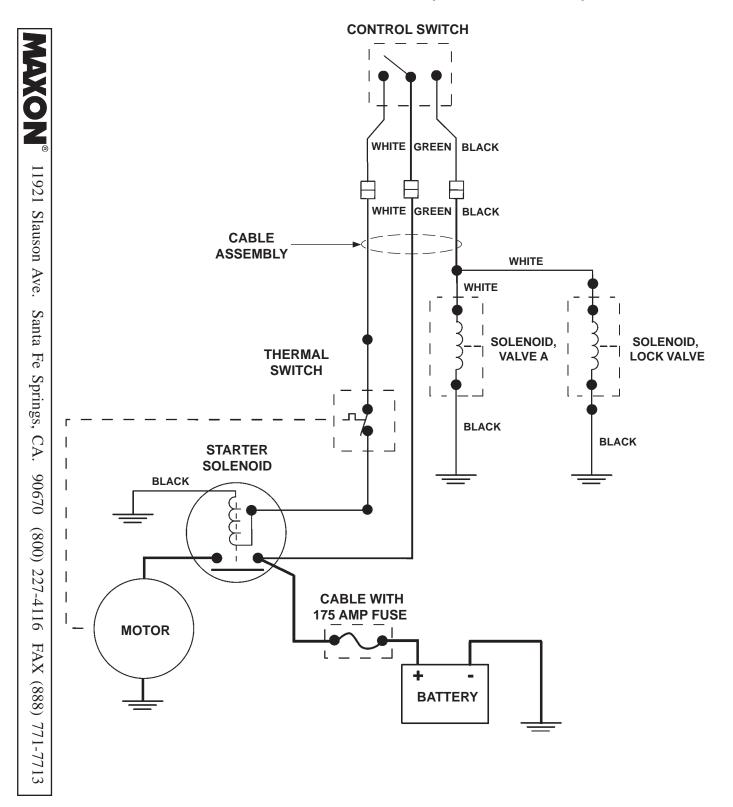


FIG. 98-1

ELECTRICAL SCHEMATIC (POWER DOWN)

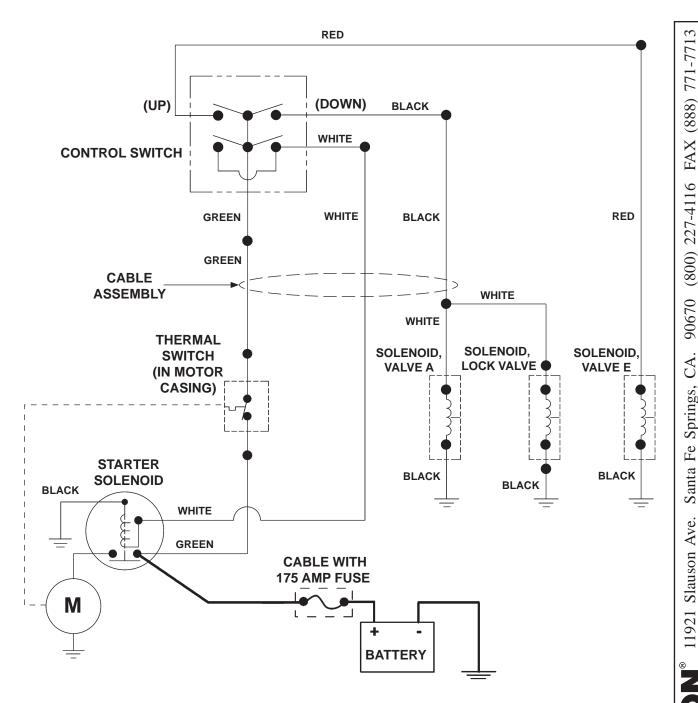


FIG. 99-1

RECOMMENDED BOLT TORQUES

CAUTION

The torque values in the following table are provided for torquing grade 8 bolts on Liftgate mechanical parts. To prevent damage, never use the information in this table for torquing electrical or hydraulic hose connections on the pump assembly.

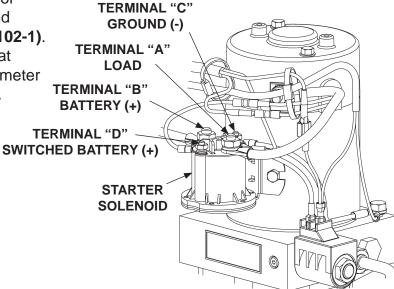
GRADE 8 BOLT TIGHTENING TORQUE				
DIAMETER & THREAD PITCH	TORQUE			
1/4"-20	10-14 LBSFT.			
1/4"-28	11-16 LBSFT.			
5/16"-18	20-29 LBSFT.			
5/16"-24	22-33 LBSFT.			
3/8"-16	35-52 LBSFT.			
3/8"-24	40-59 LBSFT.			
7/16"-14	56-84 LBSFT.			
7/16"-20	62-93 LBSFT.			
1/2"-13	85-128 LBSFT.			
1/2"-20	96-144 LBSFT.			
9/16"-12	123-184 LBSFT.			
9/16"-18	137-206 LBSFT.			
5/8"-11	170-254 LBSFT.			
5/8"-18	192-288 LBSFT.			
3/4"-10	301-451 LBSFT.			
3/4"-18	336-504 LBSFT.			

TABLE 100-1

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TROUBLESHOOTING PLATFORM WILL NOT RAISE & MOTOR WILL NOT RUN

 Connect voltmeter between motor solenoid terminal "B" and ground wires connection on pump (FIG. 102-1). Verify that full battery voltage is at "B". Recharge the battery if voltmeter indicates less than 12.6 volts dc.



GRAVITY DOWN POWER UNIT FIG. 102-1

- 2. Touch a jumper wire to terminals "B" & "D" (FIG. 102-1). If motor runs, check control switch, the switch connections, and white wire. Check and correct wiring connections or replace the control switch.
- 3. Touch heavy jumper cables to terminals "A" & "B" (FIG. 102-1).
 - a. If motor runs, replace the motor solenoid.
 - b. If motor does not run, repair or replace the pump motor.

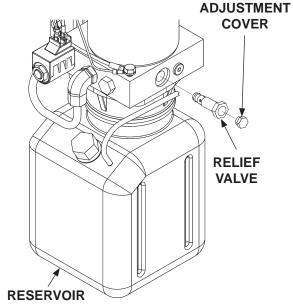
PLATFORM WILL NOT RAISE, BUT MOTOR RUNS

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

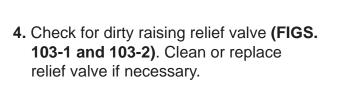
CAUTION

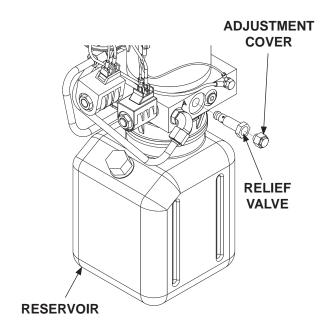
Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination during maintenance.

 Check pump oil filter in the reservoir (FIGS. 103-1 and 103-2). Clean or replace filter, if necessary.



CHECKING THE RAISING RELIEF VALVE (GRAVITY DOWN POWER UNIT) FIG. 103-1

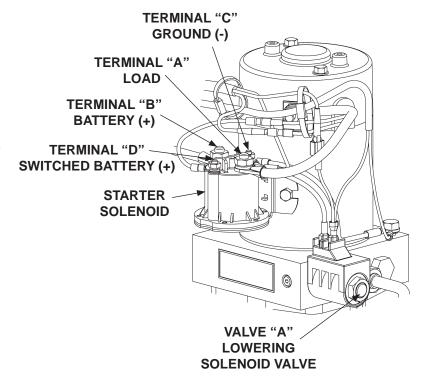




CHECKING THE RAISING RELIEF VALVE (POWER DOWN POWER UNIT) FIG. 103-2

TROUBLESHOOTING PLATFORM RAISES BUT LEAKS DOWN

1. Check if the "A" (lowering) solenoid valve is constantly energized. Connect voltmeter negative (-) lead to ground (-) wires connection on pump and positive (+) lead to (+) terminal on the "A" (lowering) solenoid valve (FIG. 104-1). If voltmeter reads battery voltage, check for faulty wiring or toggle switch.

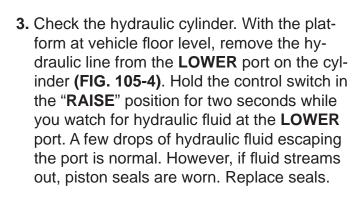


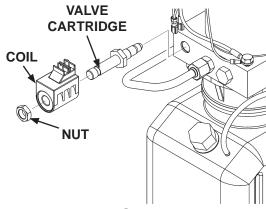
GRAVITY DOWN POWER UNIT FIG. 104-1

CAUTION

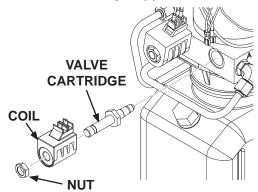
Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination during maintenance.

2. Make sure platform is on the ground. Remove lowering solenoid valve (FIGS. 105-1 and 105-2). Push on the plunger in the valve by inserting small screwdriver in the open end (FIG. 105-3). If the plunger does not move with a smooth, spring-loaded action (approximately 1/8"), replace the valve cartridge. Reinstall lowering solenoid valve. Torque valve cartridge to 30 lbs.-ft. and hex nut to 30 lbs.-in.

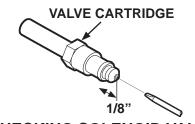




REMOVING SOLENOID VALVE (GRAVITY DOWN POWER UNIT) FIG. 105-1



REMOVING SOLENOID VALVE (POWER DOWN POWER UNIT) FIG. 105-2



CHECKING SOLENOID VALVE FIG. 105-3

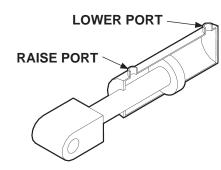


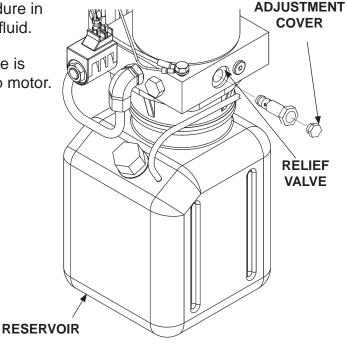
FIG. 105-4

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TROUBLESHOOTING PLATFORM RAISES PARTIALLY AND STOPS

- Lower the opened 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.
- Check for structural damage and poor lubrication. Replace worn parts.



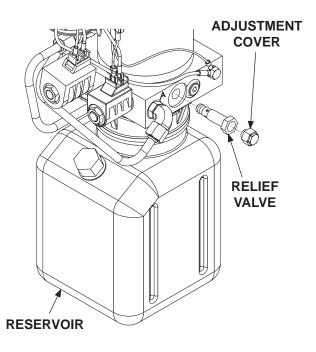
CHECKING THE RAISING RELIEF VALVE
(GRAVITY DOWN POWER UNIT)

FIG. 106-1

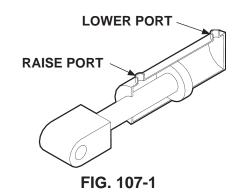
CAUTION

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 for dirty raising relief valve (FIGS. 106-1 and 106-2). Clean or replace relief valve, if necessary.



(POWER DOWN POWER UNIT) FIG. 106-2



Check pump oil filter in the reservoir (FIGS. 103-1 and 103-2). Clean or replace filter, if necessary.

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TROUBLESHOOTING

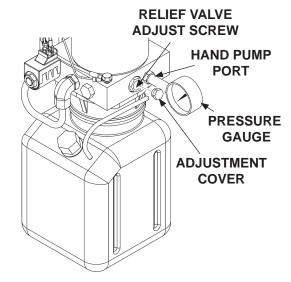
LIFTGATE WILL NOT LIFT RATED CAPACITY

- **1.** Use voltmeter to verify the battery voltage is 12.6 volts or more under load from pump motor.
- **2.** Check for structural damage or lack of lubrication. Replace worn parts.

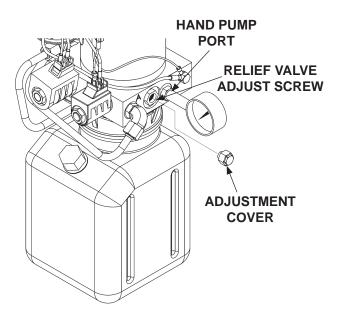
CAUTION

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.

- 3. Check the 3200 PSI relief valve as follows. With platform on the ground, remove plug from hand pump port (FIGS. 108-1 and 108-2). Install 0-4000 PSI pressure gauge in the hand pump port (FIGS. 108-1 and 108-2). Remove cover for access to relief valve. Hold the control switch in the "RAISE" position. Adjust the relief valve until the gauge reads 3200 PSI (FIGS. 108-1 and 108-2). Remove guage 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.



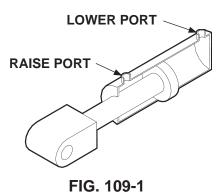
ADJUSTING RAISING RELIEF VALVE (GRAVITY DOWN POWER UNIT) FIG. 108-1



ADJUSTING RAISING RELIEF VALVE (POWER DOWN POWER UNIT) FIG. 108-2

Santa Fe Springs,

- 5. Check the hydraulic cylinder. With the platform at vehicle floor level, remove the hydraulic line from the LOWER port on the cylinder (FIG. 109-1). Hold the control switch in the "RAISE" position for two seconds while you watch for hydraulic fluid at the LOWER port. A few drops of hydraulic fluid escaping the port is normal. However, if fluid streams out, piston seals are worn. Replace seals.
- 6. If pump cannot produce 3200 PSI or lift the load capacity with a minimum of 12.6 volts available, the pump is worn and needs to be replaced.

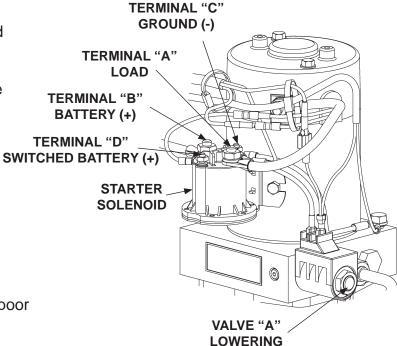


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TROUBLESHOOTING

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. 110-1). Verify that full battery voltage is at "B". Recharge the battery if voltmeter indicates less than 12.6 volts dc.

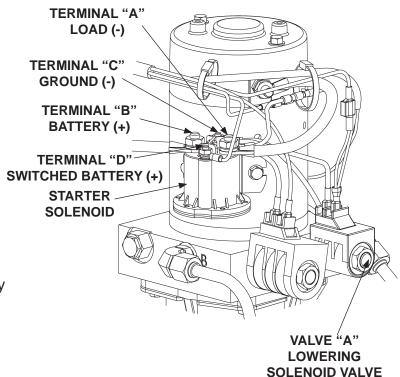


2. Check for structural damage or poor lubrication. Replace worn parts.

GRAVITY DOWN POWER UNIT FIG. 110-1

SOLENOID VALVE

3. Check if the "D" terminal and "A" (lowering) solenoid valve are getting battery voltage (FIG. 96-2). Connect voltmeter negative (-) lead to ground (-) wires connection on pump and positive (+) lead to the "D" terminal (FIG. 110-2). Hold control switch in the "LOWER" position. Then, connect voltmeter (+) lead to (+) terminal on the "A" (lowering) solenoid valve (FIG. 110-2). 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.



POWER DOWN POWER UNIT FIG. 110-2

MAXON

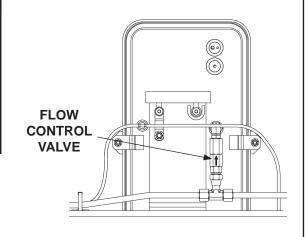
CAUTION

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.

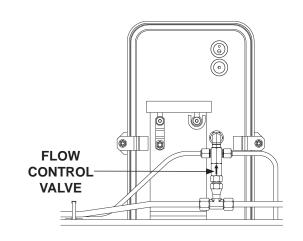
CAUTION

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

4. Make sure platform is on the ground. Check the flow control valve as follows. Remove flow control valve (FIG. 111-1). Ensure the flow control valve operates with a smooth spring-loaded 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.

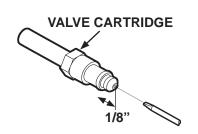


FLOW CONTROL VALVE ON BACK OF GRAVITY DOWN PUMP ASSEMBLY FIG. 111-1



FLOW CONTROL VALVE ON BACK OF POWER DOWN PUMP ASSEMBLY FIG. 111-2

5. 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. 111-3). 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.



CHECKING SOLENOID VALVE FIG. 111-3