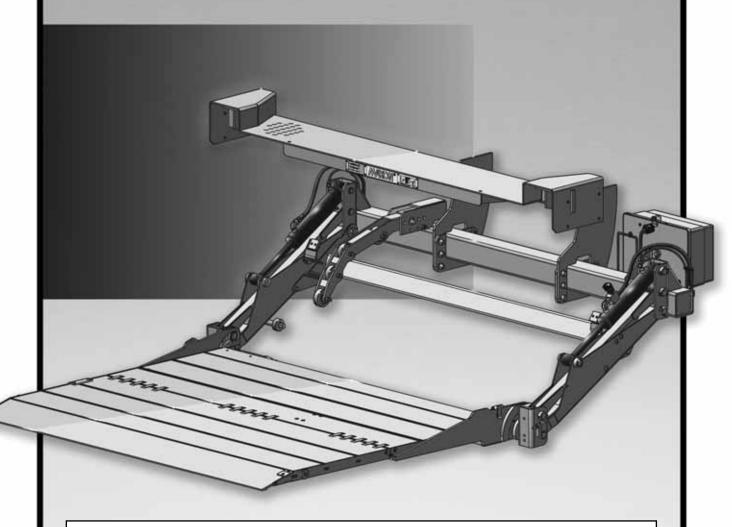
M-18-14 REV. B DECEMBER 2023

GPTLR Series

INSTALLATION MANUAL

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



To find maintenance & parts information for your GPTLR Liftgate, go to www. maxonlift.com. Click the PRODUCTS, TUK-A-WAY & GPTLR buttons. Open the Maintenance Manual in the PRODUCT DOCUMENTATION window. For parts, click on the PARTS PORTAL, TUK-A-WAY & GPTLR buttons.

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SUMMARY OF CHANGES: M-18-14 REV B

PAGE	DESCRIPTION OF CHANGE				
Cover	Updated cover image, date of release and REV.				
7	Updated illustrations for GPTLR main assembly (pump mounting bracket and power unit).				
8	Updated parts listed in Parts Box A and Parts Box C.				
9	Deleted decal and manual kits for GPTLR-25 SWG EXT (P/N 299460-06) and GPTLR-33 SWG EXT (P/N 299460-05).				
21, 25	Added instruction details to ensure dowel on installation brackets is tight against extension plate and platform heel.				
31, 32	Reversed routing of fused cable & ground cable through wall of battery box.				
31, 38, 40, 42, 45, 58	Added instructions for preventing corrosion on external electrical cable connections, including battery cables.				
34	Updated optional battery box to show new battery hold down parts. Reversed routing of fused cable & ground cable through wall of battery box.				
35-36	Changed cable routing instructions to include fused power cable & 38 ft dedicated ground cable.				
37	Updated power cable routing through grommet at bottom of pump mounting plate.				
37, 43	Changed pump cover fasteners to cap screw, bracket, flat washers and nuts. Added torque value for cap screws.				
38	Updated power cable connection to battery terminal with flange nut on starter solenoid.				
39-40	Updated ground cable routing through grommet at bottom of pump mounting plate and ground cable connection to pump manifold. Also changed instructions to show different connections for short ground cable, and the long dedicated ground cable.				
42	Updated control switch cable routing through cable gland on pump mounting plate. Changed hex nut to flange nut on connection for fuse holder and (+) battery cable.				
43	Updated hydraulic fluid check by using fill lines on oil level decal. For installation procedure, only check fluid level with platform at bed height.				
44	Updated recommended brands of ISO 15 & ISO 32 hydraulic oil.				
45	Added instructions for connecting 38 ft dedicated ground cable to batteries.				
47	Changed procedure to combine removal of lock brackets and installation brackets at the same time when platform is on the ground.				
51, 73, 77	Added notes to remove galvanize material before welding galvanized steel.				
60	Added instructions to check clearance between platform tip and the ground at the end of adjustment procedure. Includes repeating the adjustment if clearance is incorrect.				
81	Updated Operating Instructions decal.				
85	Updated illustration of gravity down power unit showing direction of flow control, C1 port and the A valve. Updated motor and solenoid operation.				
86	Updated illustration of power down power unit showing direction of controlled flow, C1 and C2 ports and S1 valve. Updated motor and solenoid operation.				
87, 88	Updated hydraulic schematics.				
89, 90	Updated electrical schematics.				
91	Updated current specified for solenoid valve in 12V and 24V systems.				
92	Updated table of Options.				
93	Updated Electrical Inspection on PRE-DELIVERY INSPECTION FORM.				

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

WARNING

Installing and maintaining a liftgate can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, install and maintain liftgate in a well-ventilated area and wear proper Personal protective equipment (PPE). For more information go to www.P65Warnings.ca.gov.

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.
- Make sure vehicle battery power is disconnected while installing Liftgate. Connect vehicle battery power to the Liftgate only when installation is complete or as required in the installation instructions.
- If it is necessary to stand on the platform while operating 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.
- Never perform unauthorized modifications on the Liftgate. Modifications may result in early failure of the Liftgate and may create hazards for Liftgate operators and maintainers.
- 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 can result from welds that are done incorrectly.
- Recommended practices for welding galvanized steel are contained in the current AWS (American Welding Society) D19.0 Welding Zinc-Coated Steel. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.

SAFETY INSTRUCTIONS

- Read and understand the instructions in this Installation Manual before installing 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 or children 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 and lowered. Listen for scraping, grating and binding noises and correct the problem before continuing to operate Liftgate.

- Maxon Lift is responsible for the instructions to correctly install **MAXON** Liftgates on trucks or trailers only.
- Liftgate installers, not Maxon Lift, are responsible for reviewing and complying with all applicable Federal, State, and Local regulations pertaining to the trailer or truck.
- Installers of the liftgate should ensure that all trucks and trailers are equipped with grab handles as needed. Refer to Technology Maintenance Council (TMC) RP 1428: Entry And Egress Guidelines for Vehicles With Fold-Under Type Liftgates.

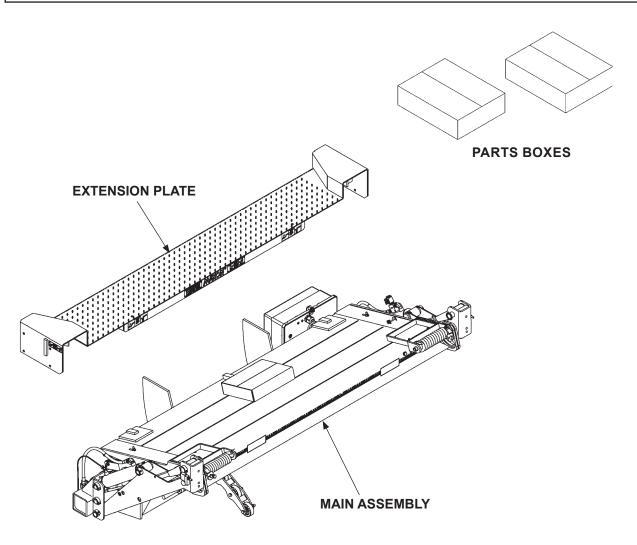
GPTLR LIFTGATE COMPONENTS

A CAUTION

Unpacking the Liftgate on unlevel surface may allow heavy components to slide off when shipping bands are cut. Injury and equipment damage could result. Before the shipping bands are cut, put Liftgate on level surface that will support 1500 lbs. When unpacking the Liftgate, remove heavy components carefully to avoid injury and damage.

NOTE: Make sure you have all components and parts before you start installing Liftgate. Compare parts in the part box and each kit box with packing list enclosed in each box. If parts and components are missing or incorrect call:

> **Maxon Customer Service** Call (800) 227-4116 or Send e-mail to cservice@maxonlift.com



GPTLR COMPONENTS FIG. 7-1

GPTLR-SERIES INSTALLATION PARTS BOXES

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX A	1	297502-01
1	FRAME CLIP	10	050079
2	#10 LOOM CLAMP	2	801681
3	SELF-TAPPING SCREW, #10 X 1/2" LG.	2	030458
4	CABLE ASSEMBLY, 2GA, 5/16" & 3/8" RINGS, 57-3/4" LG.	1	268226-13
5	CABLE ASSEMBLY, 175A, 38 FT LG.	1	264422
6	HEX BOLT, 3/8"-16, 1-1/2" LG.	1	900014-6
7	LOCK NUT, 3/8"-16	1	901002
8	FLAT WASHER, 3/8"-16	2	902001-2
9	PLASTIC TIE, 12"-14" LG	2	206864

TABLE 8-1

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX B	1	210018-01
1	TOGGLE SWITCH ASSEMBLY	1	296855-01
2	INSTALLATION BRACKET	2	269462-01
3	HEX HEAD NUT, 1/2"-13	2	901011-9
4	SHIM, PLATFORM ADJUSTMENT, 1/8"	2	281166-02
5	SHIM, PLATFORM ADJUSTMENT, 1/16"	2	281166-01
6	SCREW, SELF TAPPING, #10-24 X 1-1/2" LG	2	900057-7
7	LUG, 2 GUAGE, COPPER, 5/16"	1	906497-02
8	CAP SCREW, HEX HEAD, 1/2"-13 X 1-1/2" LG.	2	900035-3

TABLE 8-2

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX C	1	297502-02
1	SPRING CLIP	20	050079
2	CABLE ASSY, 175 AMP 38 FT LG	1	264422
3	GROUND CABLE ASSY, 2 GA X 38FT LG (ONE LUG)	1	269191-08
4	#10 LOOM CLAMP	2	801681
5	SELF-TAPPING SCREW, #10 X 1/2" LG.	2	030458
6	HEX BOLT, 3/8"-16, 1-1/2" LG.	1	900014-6
7	LOCK NUT, 3/8"-16	1	901002
8	FLAT WASHER, 3/8"-16	2	902001-2
9	HEATSHRINK TUBING, 3/4" X 1-1/2" LG	1	253316-04
10	LUG, 2 GUAGE, COPPER, 5/16"	1	906497-02
11	PLASTIC TIE, 12"-14" LG	4	206864

GPTLR-SERIES MANUALS & DECALS

NOTE: To find maintenance and parts information for your GPTLR Liftgate, go to www.maxonlift.com. Open the Maintenance Manual in the PRODUCT DOCUMENTATION window. For parts, click on the PARTS PORTAL, TUK-A-WAY & GPTLR buttons.

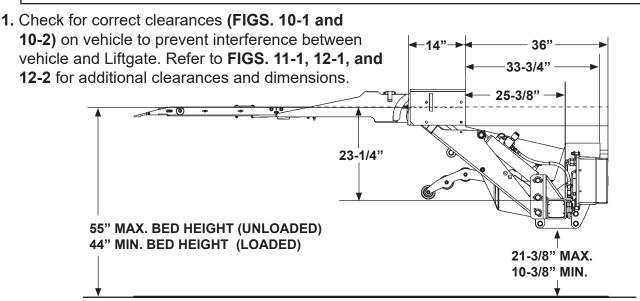
ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
	DECAL & MANUAL KIT	1	299460-01 (GPTLR-25)
REF			299460-02 (GPTLR-33)
KEF			299459-01 (GPTLR-44)
İ			299459-02 (GPTLR-55)
1	INSTALLATION MANUAL	1	M-18-14
2	OPERATION MANUAL	1	M-18-15
3	DECALS (SEE DECAL PAGES IN THIS MANUAL)	1	(ALL GPTLR'S)

TABLE 9-1

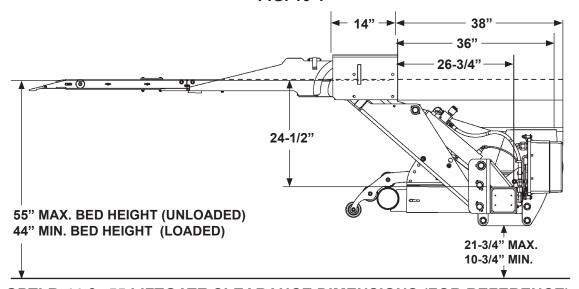
VEHICLE REQUIREMENTS

NOTE:

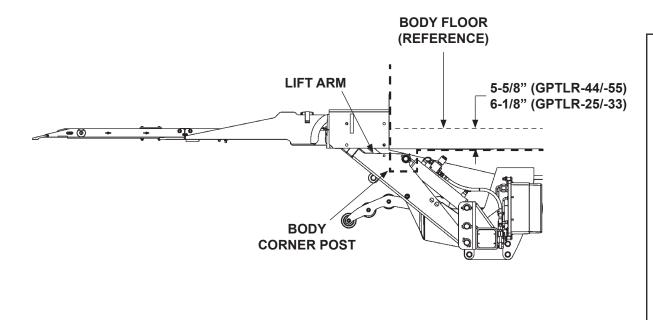
- Maximum and minimum operating bed height for GPTLR-25, GPTLR-33, GPTLR-44, and GPTLR-55 with standard platform:
 - Maximum height is **55**" (Unloaded). Minimum height is **44**" (Loaded). If Liftgate is equipped with Canadian (CMVSS) underride, minimum height is **49**". Refer to Canadian underrides listed in **OPTIONS**, and underride adjustment procedure.
- Make sure vehicle is parked on level ground while preparing vehicle and installing Liftgate.
- On vehicle bodies equipped with swing open doors, the extension plate and vehicle body must be modified to install this Liftgate.
- Dimensions are provided as reference for fitting Liftgate to vehicle body.



GPTLR-25 & -33 LIFTGATE CLEARANCE DIMENSIONS (FOR REFERENCE)
FIG. 10-1



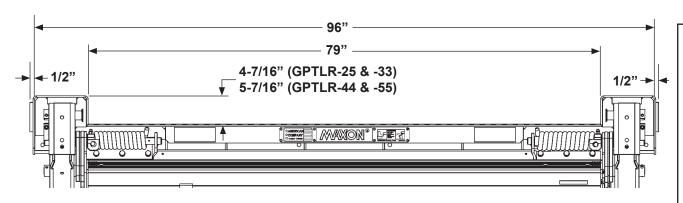
GPTLR-44 & -55 LIFTGATE CLEARANCE DIMENSIONS (FOR REFERENCE) FIG. 10-2



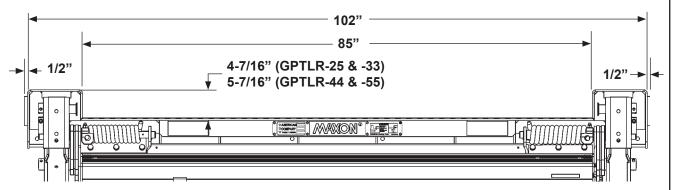
VEHICLE BODY CORNER POST CLEARANCE (FOR REFERENCE) FIG. 11-1

90670 (800) 227-4116 FAX (888) 771-7713 Santa Fe Springs, CA. **ADXON**® 11921 Slauson Ave.

VEHICLE REQUIREMENTS - Continued



GPTLR EXTENSION PLATE DIMENSIONS FOR 96" WIDE BODY FIG. 12-1



GPTLR EXTENSION PLATE DIMENSIONS FOR 102" WIDE BODY FIG. 12-2

CAUTION

- To prevent aluminum platform from being damaged, make sure vehicle frame is cut correctly and rear sills are modified if over 5" in height. If the cutouts are incorrect, platform may hit vehicle frame or underbody when stowing the Liftgate. The bottom of the platform may also hit the sill.
- Installer is responsible for ensuring that vehicle body and frame modifications do not adversely affect the integrity of the body and frame.

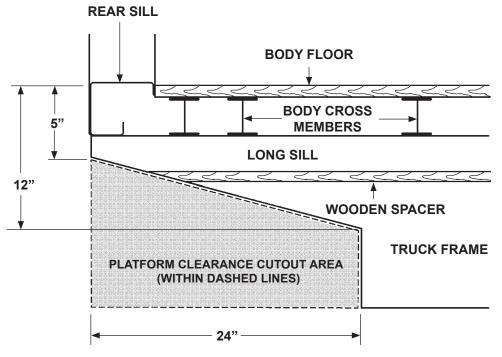
NOTE: The dimensions, shown in the illustration below, are maximums except as indicated.

NOTE: The platform cutout area shown below applies to trucks and trailers. Typical truck frame is shown. For installation on frameless trailers, kit must be selected from the OPTIONAL COMPONENTS section in this manual.

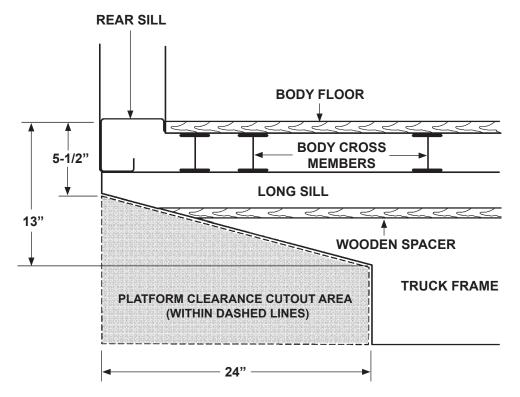
NOTE: Refer to the platform clearance cutout area in FIGS. 13-1 and 14-1. Remove any part of the rear sill that protrudes into this area.

NOTE: For Liftgates installed on trailers, refer to FIG. 15-1 for lift arm and platform clearances on the rear sill. If necessary, remove the interfering portions of the rear sill according to dimensions shown in FIG. 15-1.

2. Fit the Liftgate to vehicle body by cutting vehicle frame as shown in FIGS. 13-1 or 14-1



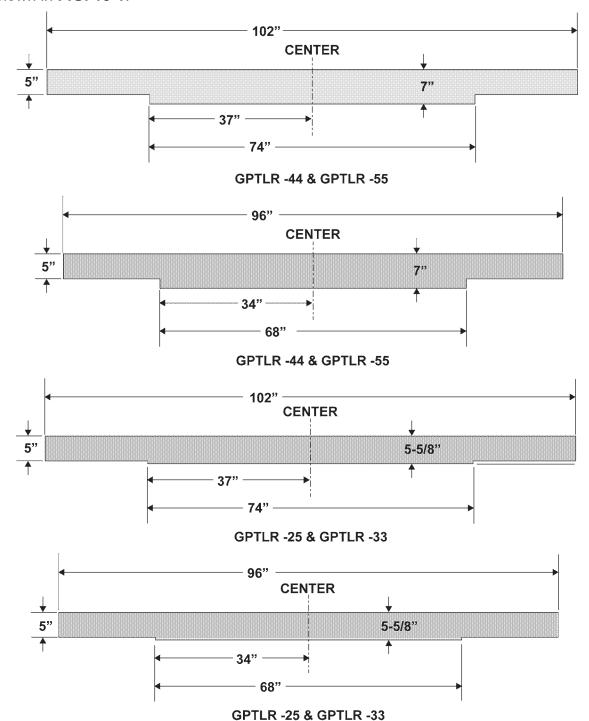
VEHICLE FRAME CUT FOR GPTLR-25 & GPTLR-33 FIG. 13-1



VEHICLE FRAME CUT FOR GPTLR-44 & GPTLR-55 FIG. 14-1

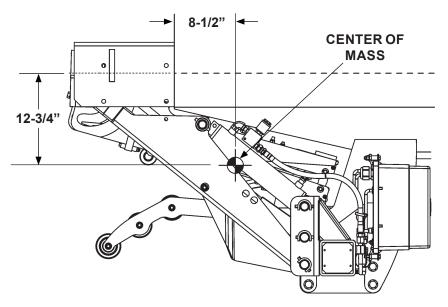
NOTE: Installer is responsible for ensuring that vehicle body and frame modifications do not adversely affect the integrity of the body and frame. Any modifications to trailer or body rear frame sill should be approved from trailer or body OEM.

3. If necessary, cut trailer rear sill as shown in **FIG. 15-1**.

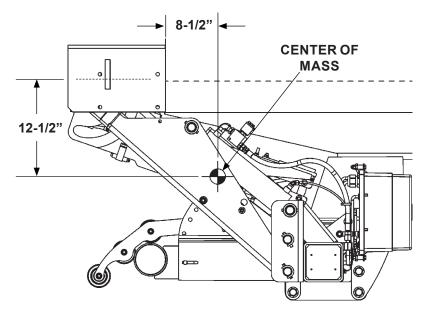


REAR SILL CUTS FOR ALL GPTLR LIFTGATES FIG. 15-1

CENTER OF MASS



GPTLR-25 & GPTLR-33 CENTER OF MASS (STOWED POSITION) FIG. 16-1



GPTLR-44 & GPTLR-55 CENTER OF MASS (STOWED POSITION) FIG. 16-2

STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE

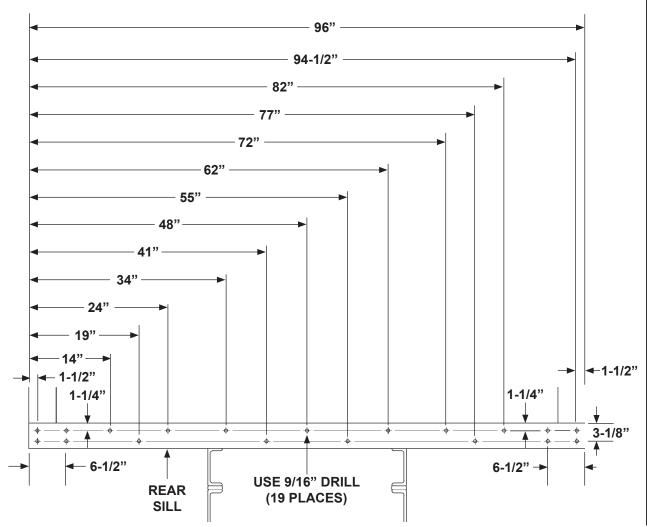
CAUTION

To preserve the corrosion-resistant properties of the galvanized finish, MAXON recommends bolting the galvanized extension plate to vehicle.

NOTE: Liftgate extension plate comes with bolt holes so it can be bolted to vehicle body with optional bolt kit. GRADE 8 bolts are required. MAXON recommends getting the optional extension plate hardware kit listed in OPTIONS section. Vehicle body must be drilled according to instructions. Extension plate may also be welded to vehicle body. Do the following bolting or welding instructions for the extension plate.

BOLT EXTENSION PLATE

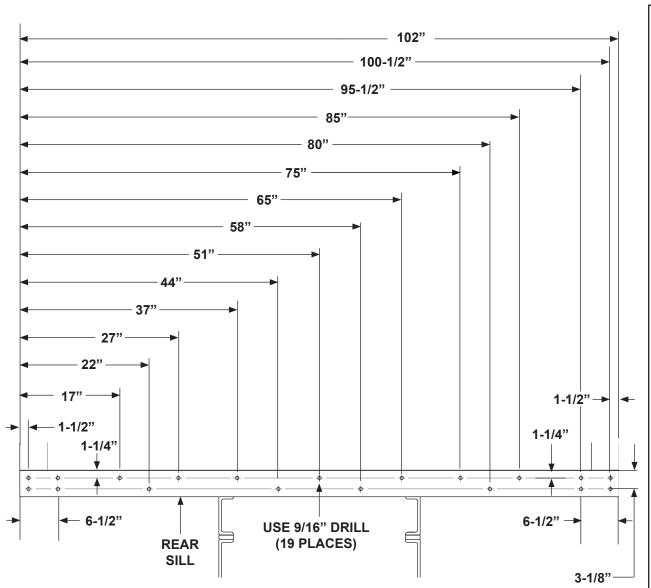
1. Mark and drill holes into rear sill as shown in FIGS. 17-1 and 18-1.



REAR SILL - HOLE LOCATIONS FOR 96" WIDE VEHICLE FIG. 17-1

90670 (800) 227-4116 FAX (888) 771-7713 Santa Fe Springs, CA. AXON[®] 11921 Slauson Ave.

STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE - Continued



REAR SILL - HOLE LOCATIONS FOR 102" WIDE VEHICLE FIG. 18-1

STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE -Continued

CAUTION

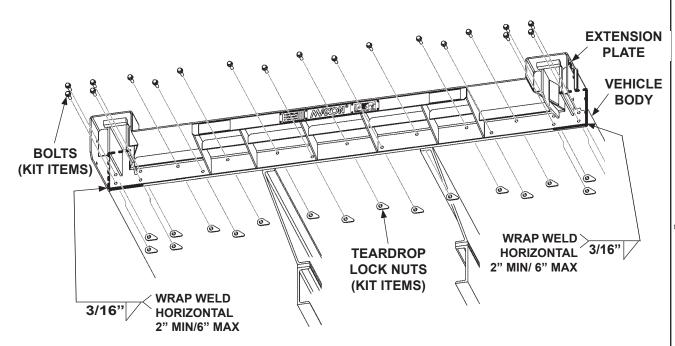
The mating surface between the bolt-on extension plate and vehicle rear sill must be as flat as possible. Interference between the mating surfaces could result in a distorted top surface of extension plate when all the bolts are tightened. Distorted extension plate can also make the dual steps difficult to install correctly. Remove interference or shim rear sill to eliminate or reduce the possibility of a distorted extension plate.

NOTE: Do not tighten extension plate bolts and lock nuts until:

- All the bolts and lock nuts are in place.
- Mating surfaces of extension plate and rear sill are made flat as possible.
- Top of extension plate is flush with top of rear sill.

NOTE: Weld the LH and RH ends of the extension plate to vehicle body as shown in **FIG. 19-1** if any of the following conditions apply.

- Bolt holes are not accessible on the corner posts of the vehicle body.
- Liftgate will be used for dock loading applications.
- As required by body/trailer manufacturer
- 2. Bolt extension plate to vehicle as shown in FIG. 19-1. If necessary, reposition extension plate so top surface is flush with top surface of sill. Then, torque bolts and lock nuts to 105 +/-20 lb-ft.



BOLTING EXTENSION PLATE (96" WIDE EXTENSION PLATE SHOWN) FIG. 19-1

STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE - Continued

WELD EXTENSION PLATE (ALTERNATE METHOD)

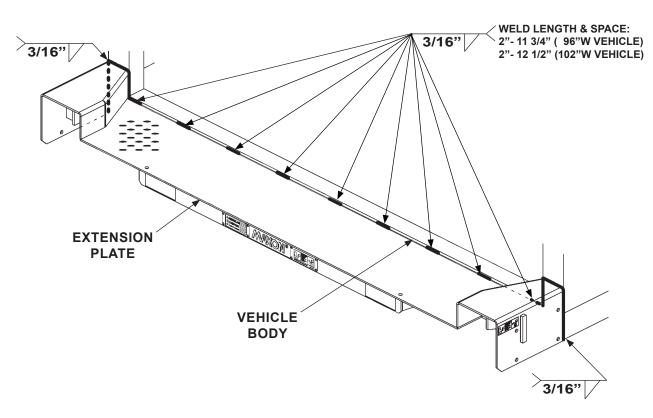
NOTICE

To preserve the corrosion-resistant properties of the galvanized finish, MAXON recommends bolting the galvanized extension plate to vehicle.

NOTE: For welding galvanized steel, refer to recommended practices as outlined in AWS (American Welding Society) D19.0 Welding Zinc-Coated Steel.

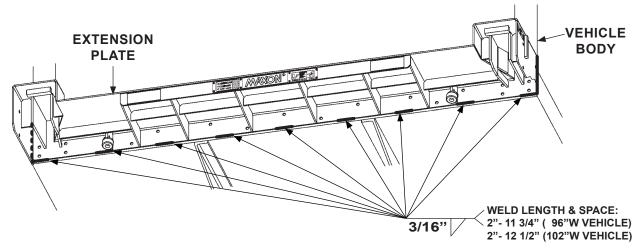
NOTE: Before welding extension plate to vehicle body, make sure:

- Inboard edge of extension plate is flush with the top of sill on vehicle body.
- Top surface of extension plate is level with the ground.
- Grind galvanized surface material from areas to be welded.
- Center the extension plate on vehicle body. Next, weld the extension plate to sill on vehicle body as shown in FIGS. 20-1 and 21-1. Then touch up bare metal and welds with cold galvanize spray.



EXTENSION PLATE WELDS - VIEWED FROM ABOVE FIG. 20-1

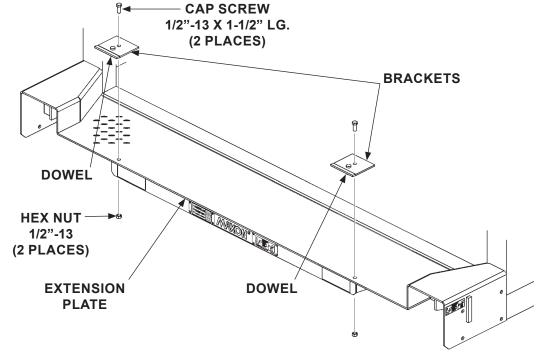
STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE -Continued



EXTENSION PLATE WELDS - VIEWED FROM UNDERNEATH FIG. 21-1

NOTE: During installation of liftgate, installation brackets keep the heel of the platform level with extension plate and maintain a 5/8" (+/- 1/8") gap between extension plate and heel of platform. The extension plate has bolt holes for bolting on the installation brackets provided in parts box.

2. Bolt 2 installation brackets (parts bag items) on the extension plate as shown in FIG. 21-2. Ensure spacer dowel, on each bracket, is pushed tight against the extension plate. Then, tighten hex nuts securely.

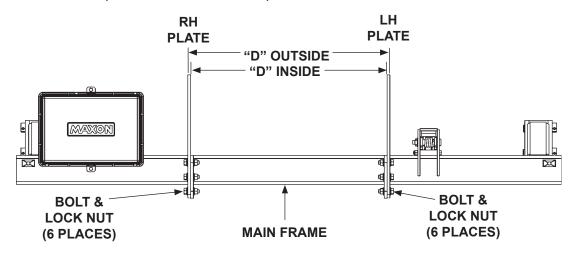


BOLTING ON INSTALLATION BRACKETS FIG. 21-2

STEP 2 - WELD LIFTGATE TO VEHICLE

NOTE: GPTLR Liftgates are equipped with mounting plates installed at the factory. Mounting plate widths are shown based upon truck or trailer frame widths. Ensure you have the correct mounting plate kit for your application.

If it's necessary to unbolt mounting plates from main frame (FIG 22-1), torque mounting plate nuts and bolts 220-240 lb-ft (GPTLR-25/GPTLR-33) or 350-375 lb-ft (GPTLR-44/GPTLR-55).



BOLT ON MOUNTING PLATES FOR INSTALLATION ON TRUCKS & TRAILERS (REAR VIEW OF LIFTGATE)

FIG. 22-1

LIFTGATE MODEL	"D" INSIDE	"D" OUTSIDE	APPLICATION
GPTLR-25/GPTLR-33	34-1/4"	35-1/4"	Common truck chassis width
	32-3/4"	33-3/4"	Trailer applications
	34-13/16"	35-13/16"	Trailer applications (91 cm)

TABLE 22-1

LIFTGATE MODEL	"D" INSIDE	"D" OUTSIDE	APPLICATION
GPTLR-44/GPTLR-55	34-1/4"	35-1/4"	Common truck chassis width
	33-1/4"	34-1/4"	Trailer emplications
	34"	35"	Trailer applications
	34-13/16"	35-13/16"	Trailer applications (91 cm)
	37-1/4"	38-1/4"	Trailer applications

TABLE 22-2

1. Unfold the platform and flipover (FIG. 23-1).

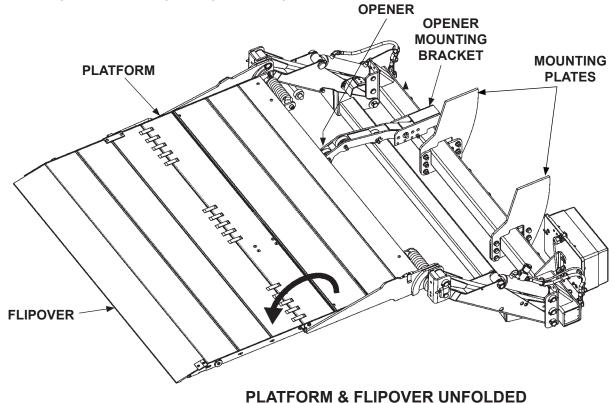


FIG. 23-1

2. Unbolt opener from mounting bracket (shipping position) and save to reinstall (FIG. 23-1).

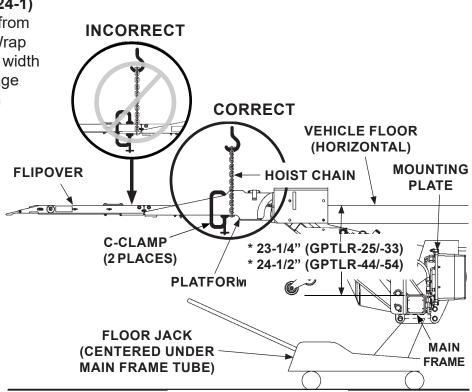
A CAUTION

To prevent damage to aluminum flipover, and to keep liftgate from falling off the jack, NEVER hoist the Liftgate by the flipover (INCORRECT way shown below). Hoist the Liftgate only by the platform (CORRECT way shown below).

NOTICE

Maintain distance between vehicle floor and top of main frame at center of main frame as shown in the instructions. Dimension tolerance is +/- 1/4". Never apply force at the ends of the main frame tube to change the floor clearance.

3. Make sure hoist is set up the correct way (FIG. 24-1). Place a "C" clamp on each side of platform (FIG. 24-1) to prevent hoist chain from slipping off platform. Wrap the hoist chain around width of the platform to engage the chain with platform (FIG. 24-1).



* TOLERANCE IS +/- 1/4"

CORRECT WAY TO HOIST LIFTGATE FIG. 24-1

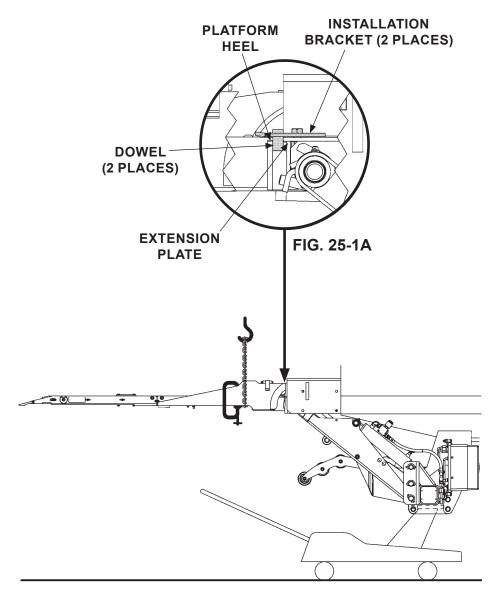
4. Hoist the Liftgate (FIG. 24-1).

Then, place floor jack under center of main frame (FIG. 24-1).

Jack the Liftgate into position.

Make sure vehicle floor is horizontal. Maintain distance between floor and top of main frame as shown in FIG. 24-1.

5. Ensure spacer dowel on each installation bracket fits tight against extension plate and heel of the platform (FIGS. 25-1 and 25-1A).



FITTING PLATFORM TIGHT AGAINST INSTALLATION **BRACKET PINS** FIG. 25-1

CAUTION

Prevent damage to hydraulic hoses. If welding next to hydraulic hoses, use a protective cover such as a welding blanket to cover the hoses.

CAUTION

To protect the original paint system (if equipped), a 3" wide area of paint must be removed from all sides of the weld area before welding. After the welds are cool, ensure touch-up paint is applied to bare metal surface.

CAUTION

When using an electric welder, connect the welder ground to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts. For additional protection, ensure all batteries on the vehicle are disconnected.

BED LEVEL 6. Clamp both mounting plates 2" LG. 4 PLACES to vehicle frame. Check (TYPICAL - RH & LH / 5/16" **MOUNTING PLATES)** the distance between bed level and top of main frame. Maintain the distance shown in **FIG. 26-1 MOUNTING** PLATE * 23-1/4" (GPTLR-25/-33) * 24-1/2" (GPTLR-44/-54) **FRAME CUTOUT** (TYPICAL TRUCK FRAME SHOWN) MAIN **FRAME** * TOLERANCE IS +/- 1/4"

> WELD TO VEHICLE FRAME AND MAIN FRAME (RH SIDE SHOWN) FIG. 26-1

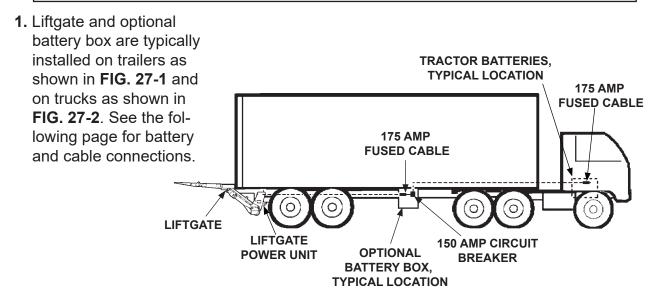
7. Weld the mounting plates to vehicle frame as shown in FIG. 26-1. Remove clamps.

MAXON

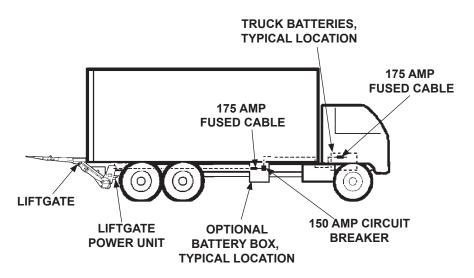
STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED)

RECOMMENDED CONFIGURATION

NOTE: Make sure the Liftgate power unit, and all batteries on the vehicle for the power unit, are connected correctly to a common chassis ground.



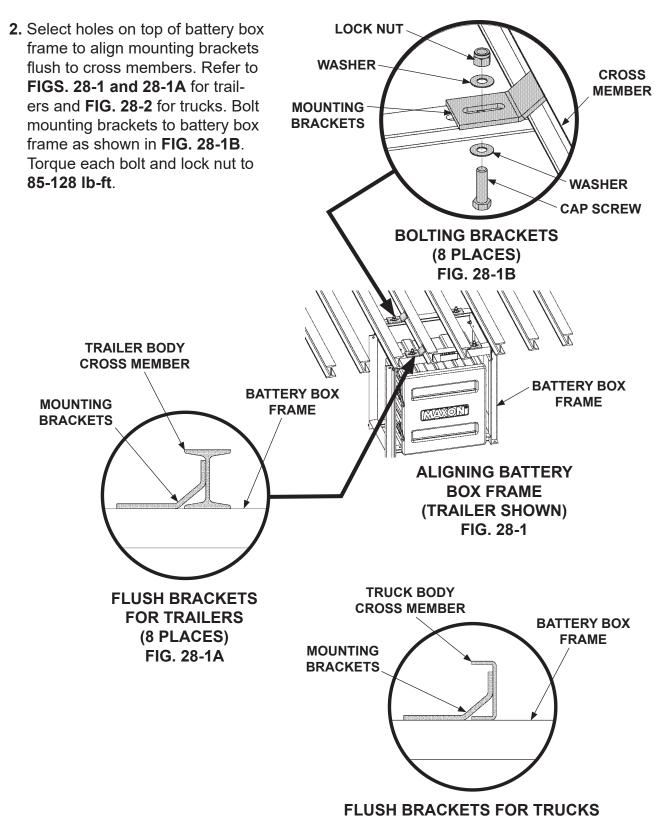
RECOMMENDED LIFTGATE & OPTIONAL BATTERY BOX INSTALLATION ON TRAILER FIG. 27-1



RECOMMENDED LIFTGATE & BATTERY BOX INSTALLATION ON TRUCK FIG. 27-2

(800) 227-4116 FAX (888) 771-7713 02906 Santa Fe Springs, CA. 11921 Slauson Ave.

STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

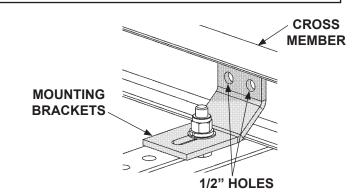


(8 PLACES) FIG. 28-2

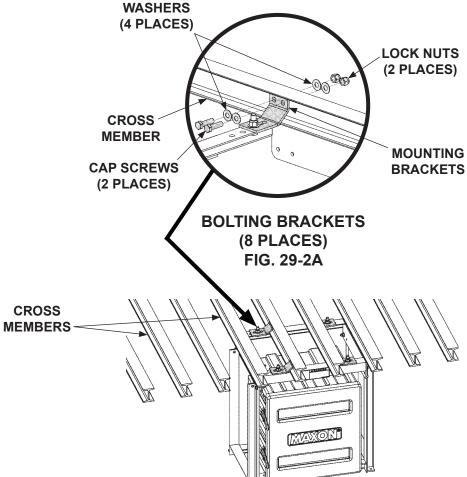
NOTE: The hanger brackets for the battery box frame can either be bolted or welded to the cross members of the vehicle body. If welding mounting brackets to cross members, skip instruction 3.

3. To bolt hanger brackets to cross members, use hanger brackets as a template to mark and drill holes through cross members (FIG. 29-1). Then, bolt hanger brackets to cross members as shown in FIGS. 29-2 and 29-2A. Torque bolts and lock nuts to 85-128 lb-ft.

To weld brackets instead of bolting, weld each hanger bracket to cross member as shown in FIGS. 30-1 and 30-1A. Weld top of bracket if accessible.



MARK AND DRILL BRACKET HOLES FIG. 29-1



BOLTING BATTERY BOX FRAME FIG. 29-2

WARNING

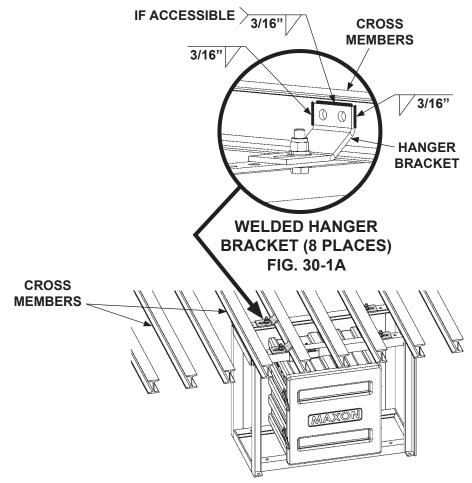
Recommended practices for welding on steel parts are contained in the current AWS (American Welding Society) D1.1 Structural Welding Code - Steel. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.

CAUTION

To prevent pump box components from being damaged by electric current from welding, connect welder grounding cable to the part being welded.

CAUTION

Cover pump box and optional battery box with flame-resistant covering before welding pump box frame to vehicle.



HANGER BRACKETS WELDED TO VEHICLE CROSS MEMBERS FIG. 30-1

A WARNING

Remove all rings, watches and jewelry before doing any electrical work.

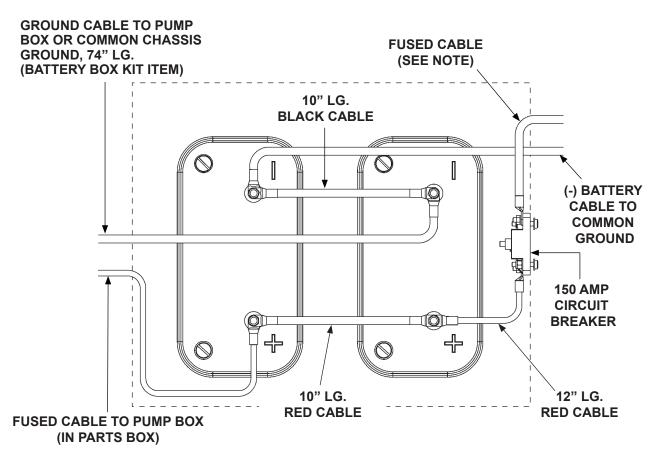
NOTICE

Protect electrical connections on the batteries and circuit breaker with a corrosion preventative spray.

NOTE: Always connect fused end of power cable to battery positive (+) terminal.

NOTE: To connect charge line, refer to instructions provided with each charge line kit.

4. Connect battery cables, fused cables, and ground cables for 12 volt power as shown in FIG. 31-1 or 24 volt power as shown in FIG. 32-1. Ensure the electrical connections are clean, tight, and protected from corrosion.

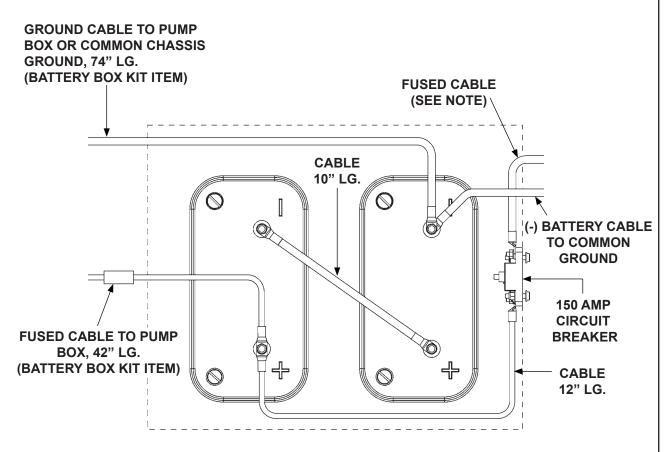


12 VOLT BATTERY CONNECTIONS **FOR 12 VOLT POWER** FIG. 31-1

(800) 227-4116 FAX (888) 771-7713 02906 CA. Santa Fe Springs, ALXON® 11921 Slauson Ave.

STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME **TO VEHICLE (IF EQUIPPED) - Continued**

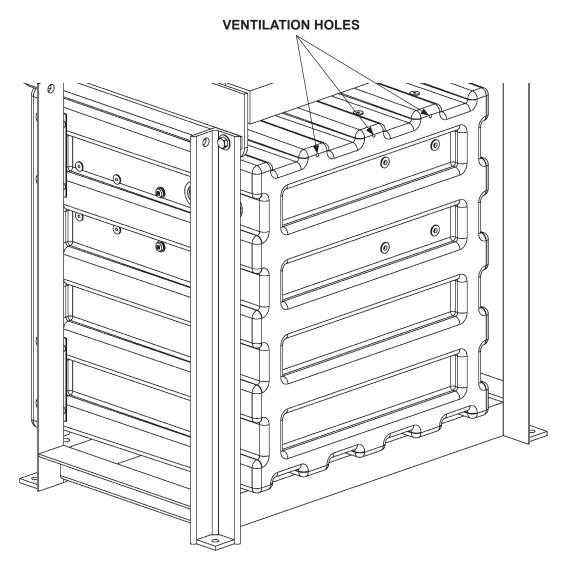
NOTE: Always connect fused end of power cable to battery positive (+) terminal.



12 VOLT BATTERY CONNECTIONS **FOR 24 VOLT POWER** FIG. 32-1

A WARNING

Explosive hydrogen gas from charging batteries can accumulate in battery box if not vented from the box. To prevent hydrogen gas from accumulating, ensure the 3 ventilation holes in battery box are not plugged or covered.



BATTERY BOX ASSEMBLY (REAR VIEW SHOWN) FIG. 33-1

BATTERY BOX ASSEMBLY

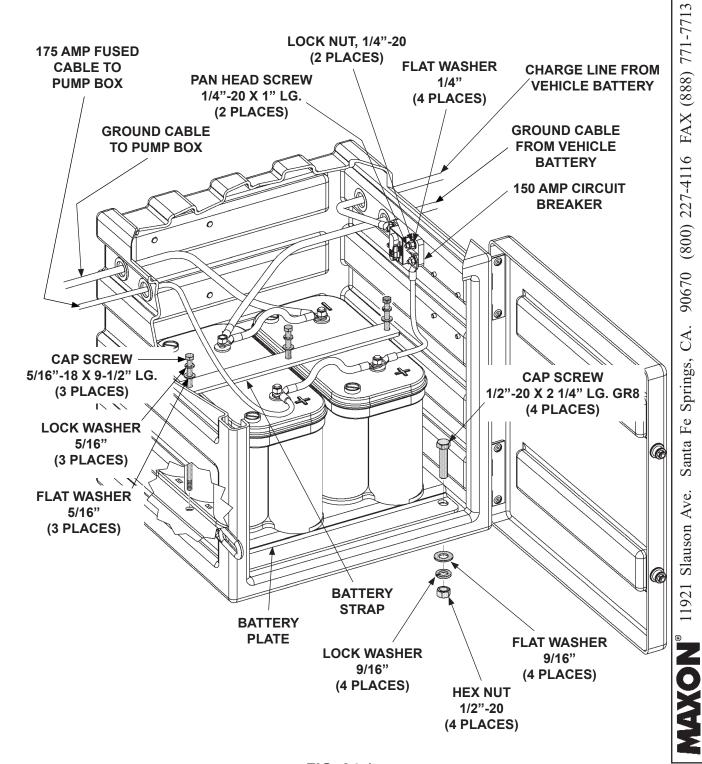


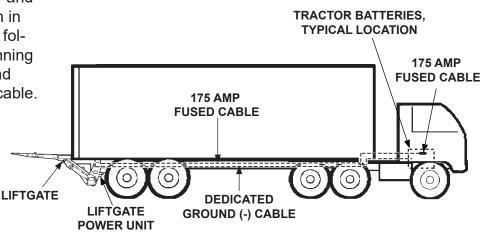
FIG. 34-1

STEP 4 - RUN POWER & GROUND CABLES

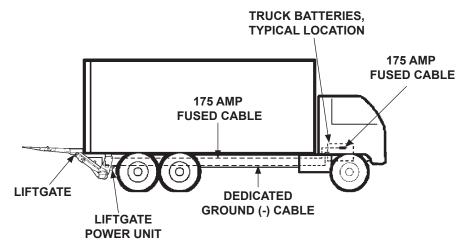
NOTE: Make sure the Liftgate power unit, and all batteries on the vehicle for the power unit, are connected correctly to a common chassis ground.

RECOMMENDED CONFIGURATION

1. Liftgate powered from truck batteries is typically installed on trailers as shown in FIG. 35-1 and on trucks as shown in FIG. 35-2. See the following page for running the power cable and dedicated ground cable.



RECOMMENDED LIFTGATE & POWER CABLE INSTALLATION ON TRAILER FIG. 35-1



RECOMMENDED LIFTGATE & POWER CABLE INSTALLATION ON TRUCK FIG. 35-2

STEP 4 - RUN POWER & GROUND CABLES - Continued

A CAUTION

Never route an energized wire. Make sure the vehicle battery is disconnected. Always route electrical wires clear of moving parts, brake lines, sharp edges and exhaust systems. Avoid making sharp bends in wiring. Keep adequate distance between (+) and (-) cables that connect to battery. Attach securely. If drilling is necessary, first check behind the drilling surface so you do not damage any fuel lines, vent lines, brake lines or wires.

NOTE: Parts Boxes A and C contain power and ground cables for connecting battery power to your liftgate, and frame clips and plastic ties for securing the cables to the vehicle frame.

NOTE: Make sure Liftgate power unit, and all batteries on the vehicle for power unit, are connected correctly to vehicle common chassis ground. If using the dedicated 38 foot long ground cable, ensure cable is connected to battery (-) terminal (STEP 9).

2. Clip fused power (+) cable, at intervals shown in FIG. 36-1, to vehicle frame with fuse nearest the vehicle battery. Keep enough cable near the battery to reach the positive terminal without straining cable (after connection). **BLACK GROUND (-)** Run power (+) cable to pump box on Liftgate. **CABLE TO VEHICLE** Run the 38-ft. long ground (-) cable along **BATTERY** vehicle frame from the vehicle battery to the **RED FUSED POWER (+) CABLE** rear of vehicle where Liftgate will be mount-TO VEHICLE BATTERY ed. Clip ground (-) cable to vehicle frame at intervals shown FIG. 36-1. Use plastic ties 175 AMP where needed. **FUSE** FRONT OF VEHICLE **REAR OF VEHICLE VEHICLE FRAME FRAME** 18" - 24" **SPACING**

RUNNING POWER & GROUND CABLES TO LIFTGATE ON TRUCK FIG. 36-1

STEP 5 - CONNECT POWER CABLE

1. Unbolt and remove pump cover as shown in **FIG. 37-1**.

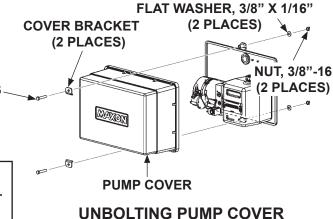
CAP SCREW, 3/8"-16 (2 PLACES)

NOTE: Electrical lines must be run into pump box through sealing grommets (FIG. 37-4). To ensure a good seal on hydraulic & electrical lines, never cut the sealing grommets.

2. Run fused power cable through grommet on pump mounting plate (FIG. 37-4).

NOTE: Ensure bare wires are not visible after the heatshrink tubing shrinks on terminal lug.

- 3. On the bare wire end of fused power cable, keep enough length to form a drip loop in the cable, attach copper terminal lug and reach starter solenoid without putting tension on cable (after connection) (FIG. 37-2). Measure (if needed) and then cut excess cable from bare wire end of cable. Put heat shrink tubing (parts box) (FIG. 37-2) on the end of the cable (leave room for terminal lug). Using a proper crimping tool, crimp copper terminal lug (from parts box), on the fused power cable and shrink the heat shrink tubing (FIG. 37-3).
- **4.** Form a drip loop on the fused power cable where it enters the grommet from outside the pump mounting plate (**FIG. 37-4**).



UNBOLTING PUMP COVER FIG. 37-1

COPPER
TERMINAL LUG

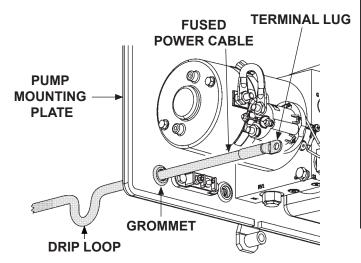
HEAT SHRINK TUBING
(P/N 253316-04)

FUSED POWER CABLE
(BARE WIRE END)

PLACING TERMINAL LUG & HEAT SHRINK TUBING ON FUSED POWER CABLE FIG. 37-2



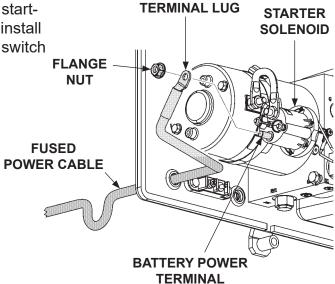
TYPICAL FUSED POWER CABLE WITH TERMINAL LUG INSTALLED FIG. 37-3



ROUTING FUSED POWER CABLE FIG. 37-4

STEP 5 - CONNECT POWER CABLE - Continued

5. Remove flange nut from battery power terminal on the solenoid switch (FIG. 38-1). Connect the fused power cable to the starter solenoid as shown in FIG. 38-1. Reinstall flange nut. Do not tighten until control switch wire gets connected in STEP 7.



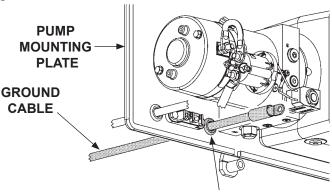
CONNECTING FUSED POWER CABLE (GRAVITY DOWN PUMP SHOWN) FIG. 38-1

STEP 6 - CONNECT GROUND CABLE

NOTE: To ensure power unit is correctly grounded, connect 2 gauge ground cable from grounding connection on pump manifold to a grounding point on the frame, negative battery terminal in the optional battery box, or negative terminal on vehicle batteries.

NOTE: Electrical lines must be run into pump box through sealing grommets (**FIG. 39-1A**). To ensure a good seal on the electrical lines, never cut the sealing grommets.

1. Insert external ground cable (Parts Box A or C) through grommet on pump mounting plate **(FIG. 39-1)**.



INSERTING GROUND CABLE THROUGH GROMMET FIG. 39-1

TERMINAL LUG

GROMMET

- 2. Bolt terminal lug on ground cable to ground connection on pump (FIG. 39-2).
- 3. Form a drip loop on the ground cable where it enters the grommet from outside the pump mounting plate (FIG. 39-1).

 FLANGE BOLT GROUND CABLE

 GROUND CONNECTION

BOLTING GROUND CABLE TO PUMP FIG. 39-2

DRIP LOOP

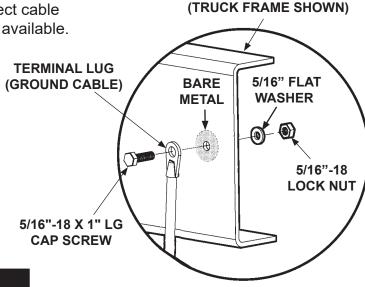
STEP 6 - CONNECT GROUND CABLE - Continued

NOTE: If there is a grounding point on the frame, use it to connect the short (57") ground cable. Then, skip the step for drilling a hole.

NOTE: Clean the ground cable connection point on the frame down to bare metal.

GROUND CONNECTION WITH SHORT (57") CABLE

- **1.** Extend the short (57") ground cable to reach vehicle frame (FIG. 40-1) without putting tension on cable connection. Connect cable lug to an existing grounding point if available.
- 2. If needed, drill a 11/32" (0.343") hole in vehicle frame for bolting the cable terminal lug to frame (FIG. 40-1).



VEHICLE CHASSIS

FIG. 40-1

NOTICE

Protect ground cable connection on vehicle frame with paint or cold galvanize spray.

3. Bolt the ground cable terminal lug to vehicle frame as shown in FIG. 40-1. Ensure the cable connection is clean, tight, and protected from corrosion.

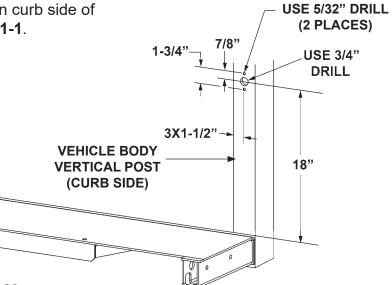
GROUND CONNECTION WITH LONG (38') CABLE

NOTE: To use the 38' dedicated ground cable, the cable must have been routed in STEP 4, from pump ground to vehicle batteries.

Do **STEP 7** and **STEP 8** of the GPTLR installation procedure. Then connect the dedicated ground cable to vehicle batteries in STEP 9.

STEP 7 - INSTALL CONTROL SWITCH

1. Measure, mark and drill one 3/4" hole and two 5/32" holes in the vertical post on curb side of vehicle body as shown in **FIG. 41-1**.



2. Insert control switch wiring harness (parts box) into 3/4" hole on corner post and down the vertical post and under the vehicle body to the pump assembly. (See dashed line in FIG. 41-2.)

DRILLING MOUNTING HOLES FIG. 41-1

NOTE: Ensure switch is mounted with toggle pointing to outside of body.

- Push control switch and cable back into the 3/4" hole in the vertical post until control switch touches the post (FIG. 41-2). Attach control switch to vertical post with 2 self-tapping screws (parts box) (FIG. 41-2).
- 4. If necessary, use clamps and self-tapping screws (parts box) to secure switch cable to vehicle under-body and frame (FIG. 41-2).

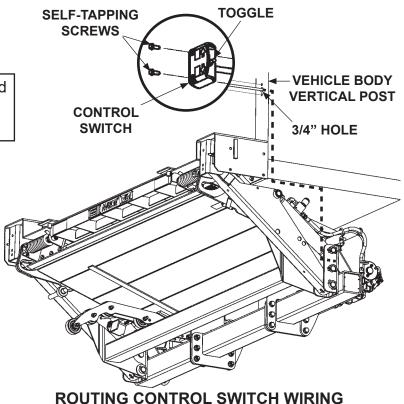


FIG. 41-2

STEP 7 - INSTALL CONTROL SWITCH - Continued

CAUTION

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

NOTICE

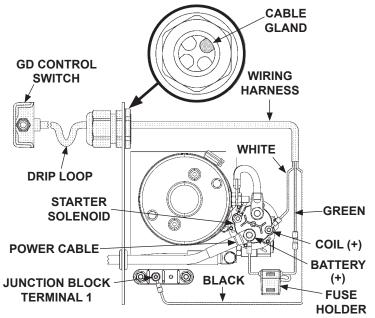
Protect electrical connections on power unit with a corrosion preventative spray.

NOTE: Electrical wiring harness must be run into pump box through cable gland. To ensure a good seal on the wiring, never cut the cable gland.

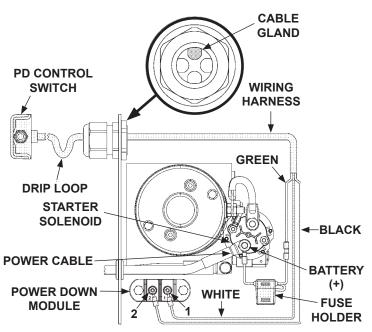
NOTE: Refer to FIG. 42-1 for Gravity Down control & FIG. 42-2 for Power Down control. Ensure wiring connections are clean, tight, and protected from corrosion.

- **5.** Insert switch wiring harness through cable gland on pump mounting plate (FIGS. 42-1 or 42-2).
- 6. Remove flange nut from battery power terminal on starter solenoid (FIGS. 42-1 and 42-2). Connect fuse holder lug (GREEN wire) to battery power terminal. Ensure fuse holder lug is on top of the power cable lug. Reinstall flange nut and torque to 35 lb-in.
- 7. Remove hex nuts from:
 - Coil (+) terminal on starter solenoid and terminal 1 on junction block (FIG. 42-1).
 - Terminals 1 and 2 on power down module (Fig. 42-2).

Connect **WHITE** wire and **BLACK** wire for switch. Reinstall each hex nut and torque to **15 lb-in**.



CONTROL SWITCH WIRING CONNECTIONS (GRAVITY DOWN) FIG. 42-1



CONTROL SWITCH WIRING CONNECTIONS (POWER DOWN) FIG. 42-2

STEP 8 - CHECKING HYDRAULIC FLUID

CAUTION

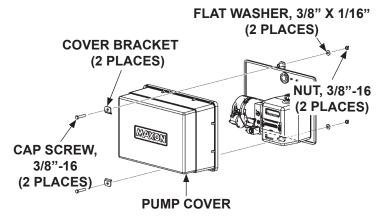
Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination.

NOTE: Liftgate is shipped with ISO 32 oil. Use correct oil for climate conditions.

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

See TABLES 44-1 & 44-2 for recommended brands of ISO 32 & ISO 15 oils.

- **1.** Unbolt and remove pump cover (FIG. 43-1).
- 2. Check the hydraulic fluid level in reservoir as follows. With platform at vehicle bed height, level should be as shown in FIG. 43-2.



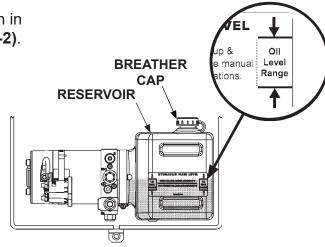
UNBOLTING/BOLTING PUMP COVER FIG. 43-1

3. If needed, add fluid to the reservoir as follows. Unscrew breather cap (FIG. 43-2). Fill the reservoir with hydraulic fluid to level shown in FIG. 43-2. Reinstall breather cap (FIG. 43-2).

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.

4. Bolt on the pump cover as shown in **FIG. 43-1**. Apply anti-seize to threads of fasteners. Torque bolts (cap screws) to 10-14 lb-in.



POWER UNIT FLUID LEVEL FIG. 43-2

STEP 8 - CHECKING HYDRAULIC FLUID - Continued

ISO 32 HYDRAULIC OIL		
RECOMMENDED BRANDS	PART NUMBER	
ROSEMEAD	ROSEMEAD MV150	
EXXONMOBIL	MOBIL DTE 10 EXCEL 32	
CHEVRON	CHEVRON AV MV32	
U.S. PRESTIGE	PRESTIGE AW HVI 32	

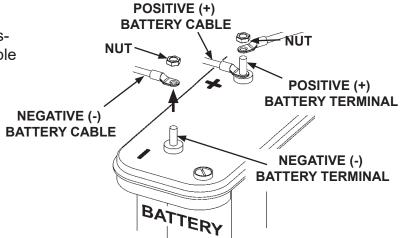
TABLE 44-1

ISO 15 OR MIL-H-5606 HYDRAULIC OIL		
RECOMMENDED BRANDS	PART NUMBER	
EXXONMOBIL	UNIVIS HVI-13	
PHILLIPS 66	ARCTIC LOW POUR	

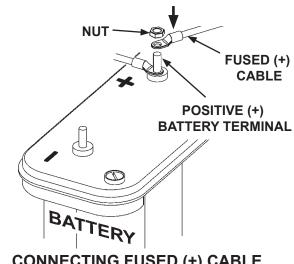
TABLE 44-2

STEP 9 - CONNECT POWER & GROUND CABLES TO BATTERY

- Remove nut from negative (-) battery terminal (FIG. 45-1). Disconnect negative (-) battery cable (FIG. 45-1).
- 2. Remove nut from positive (+) battery terminal (FIG. 45-1).
- Connect fused positive (+) cable to positive (+) battery terminal (FIG. 45-2). Then, reinstall nut on positive (+) battery terminal (FIG. 45-2).
- Reconnect negative (-) battery cable to negative (-) battery terminal (FIG. 45-3). If dedicated ground cable was installed, connect ground (-) cable to negative (-) battery terminal (FIG. 45-3). Then, reinstall nut on negative (-) battery terminal (FIG. 45-3).



DISCONNECTING (-) BATTERY CABLE FIG. 45-1

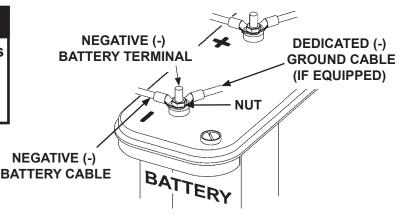


CONNECTING FUSED (+) CABLE FIG. 45-2

NOTICE

Protect electrical connections on the batteries and circuit breaker with a corrosion preventative spray.

Ensure battery cable connections are clean, tight, and protected from corrosion.

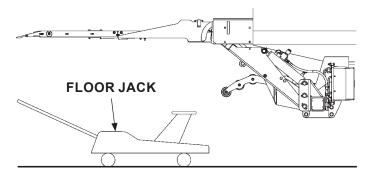


RECONNECTED BATTERY CABLES FIG. 45-3

90670 (800) 227-4116 FAX (888) 771-7713 Santa Fe Springs, CA. MAXON® 11921 Slauson Ave.

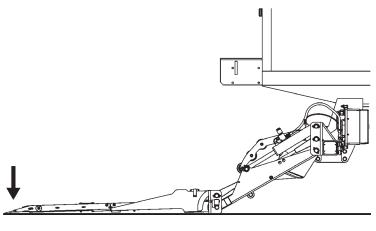
STEP 10 - REMOVE LOCKING BRACKETS & CHECK FOR INTERFERENCE

1. Remove floor jack and hoist supporting Liftgate (FIG. 46-1).



REMOVING JACK FIG. 46-1

2. Lower platform to ground level (FIG. 46-2). Refer to operating instructions in Operation Manual.



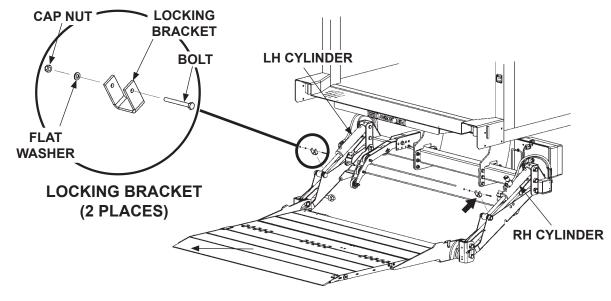
LOWERING PLATFORM FIG. 46-2

STEP 10 - REMOVE LOCKING BRACKETS & CHECK FOR INTERFERENCE - Continued

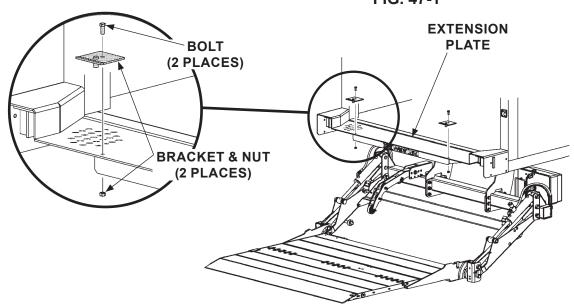
CAUTION

To prevent damage to Liftgate, the locking bracket on each cylinder must be removed before operating Liftgate.

3. Unbolt the locking brackets from both cylinders (**FIG. 47-1**). Then, unbolt the 2 installation brackets from extension plate (**FIG. 47-2**).



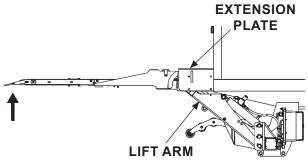
REMOVING LOCKING BRACKETS FIG. 47-1



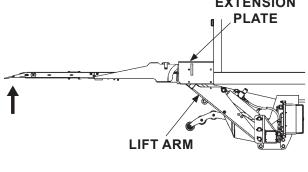
REMOVING INSTALLATION BRACKETS FIG. 47-2

STEP 10 - REMOVE LOCKING BRACKETS & CHECK **FOR INTERFERENCE - Continued**

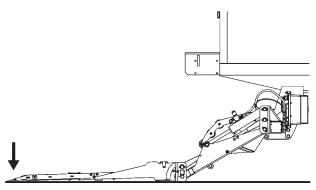
4. Raise the platform (FIG. 48-1). Look for any interference between liftgate and vehicle as platform is raised.



5. Lower platform to the ground (FIG. 48-2). Look for any interference between liftgate and vehicle as platform is lowered. If the platform lowers with a "jerking" motion, bleed air from the hydraulic system by doing the following. Push the control switch to the **DOWN** position until you hear air escaping into the hydraulic fluid reservoir. If escaping air is heard while operating the liftgate, and hydraulic fluid is foaming, wait for air to dissipate before raising platform.

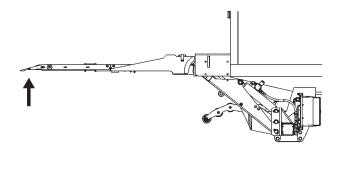


RAISING PLATFORM FIG. 48-1



LOWERING PLATFORM FIG. 48-2

- **6.** Push control switch to the **UP** position to raise the platform (FIG. 48-3). Look for any interference between liftgate and vehicle as platform is raised.
- 7. Repeat instructions 5 and 6 until there is no air left in the system and platform lowers smoothly (FIG. 48-2).

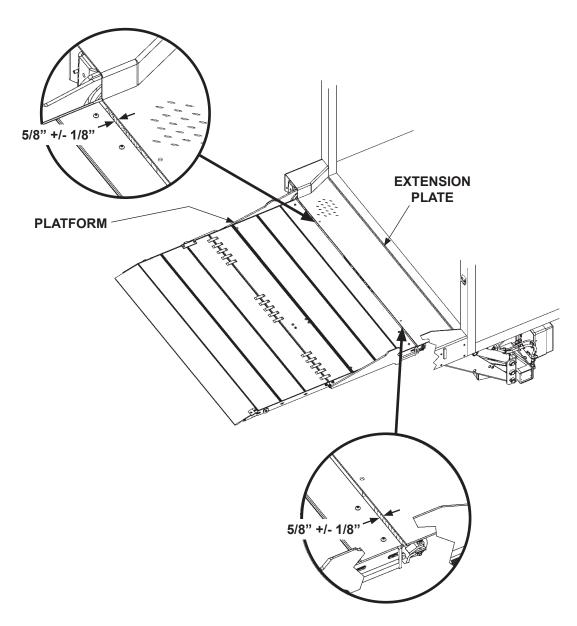


- 8. Lower platform to the ground (FIG. 48-2).
- RAISING PLATFORM FIG. 48-3

STEP 10 - REMOVE LOCKING BRACKETS & CHECK **FOR INTERFERENCE - Continued**

NOTE: Correct any fit and interference problems before continuing with installation.

9. Raise the platform to vehicle floor level (FIG. 49-1). Refer to operating instructions in **Operation Manual**. Check for 5/8" (+/- 1/8") gap between platform and edge of extension plate (FIG. 49-1).



CHECKING GAP BETWEEN PLATFORM AND EXTENSION PLATE FIG. 49-1

STEP 11 - ADJUST PLATFORM (IF REQUIRED)

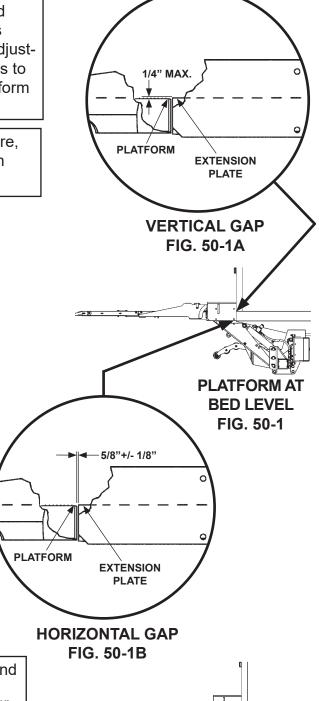
NOTE: In most cases, if Liftgate is installed according to the instructions in this manual, platform will not require adjustment. Use the following instructions to check the platform. Adjust the platform only if required.

NOTE: Before doing the following procedure, make sure vehicle is still parked on level ground.

1. RAISE platform to bed height. Check the platform as follows. Inboard edge on top of platform must be no more than 1/4" from diamond plate surface on top of extension plate (FIGS. 50-1 and 50-1A). The maximum allowable horizontal gap between inboard edge of platform and adjacent edge of extension plate is 5/8" +/- 1/8" (FIGS. 50-1 and 50-1B). LOWER platform to ground level. Shackles and tip of flipover should touch the ground at the same time (FIG. 50-2). Tip of flipover must not be higher than 1/4" above the ground. If all indications are correct

(FIGS. 50-1, 50-1A, 50-1B, and 50-2), Liftgate is installed correctly and no adjustment is needed. If the tip of flipover is too high above the ground, if shackles are off the ground, or if there is too much gap between platform and extension plate, continue doing this procedure.

NOTE: If the shackles do not touch the ground (see FIG. 52-1), do instruction 2. If the tip of the flipover is more than 1/4" above the ground (see FIG. 50-2), skip instructions 2 - 5 and do instruction 6. If there is too much vertical space (FIG. 50-1A) or horizontal space (FIG. 50-1B) between platform and extension plate, start with instruction 7 to remove and reinstall Liftgate.



TIP OF FLIPOVER
(MAX.)

PI ATFORM & SHACKI ES

PLATFORM & SHACKLES TOUCH GROUND FIG. 50-2

STEP 11 - ADJUST PLATFORM (IF REQUIRED) - Continued

2. Make sure platform is still at ground level. If the shackles are not touching the ground, measure and compare distance "A" (FIG. 51-1) with TABLE 51-1 to determine the correct shim.

RAISE TIP OF FLIPOVER THIS DISTANCE "A"	REQUIRED SHIM THICKNESS	WELD SIZE "W"
1"	1/16"	1/32"
2"	1/8"	1/16"

TABLE 51-1

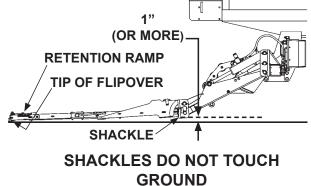


FIG. 51-1

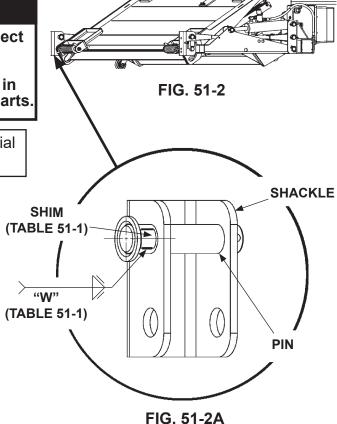
3. Fold the flipover and platform. Then, raise the platform to position shown in FIG. 51-2.

CAUTION

When using an electric welder, connect the welder to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts.

NOTE: Grind galvanized surface material from areas to be welded.

4. Use **TABLE 51-1** to select the correct size shim from the parts box. Weld shim to pin as shown in FIG. 51-2A. Touch up bare metal and welds with cold galvanize spray.

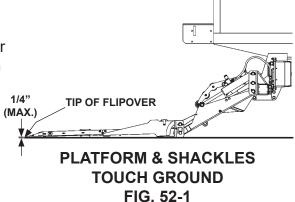


51

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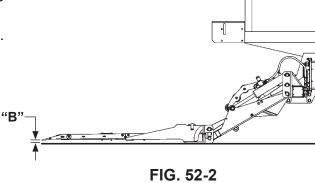
STEP 11 - ADJUST PLATFORM (IF REQUIRED) - Continued

5. Lower platform to the ground. Unfold platform and flipover. RAISE the platform to bed height, then LOWER it to the ground. The tip of flipover and shackle should touch the ground as shown in FIG. 52-1. Tip of flipover must not be higher than 1/4" above the ground.



NOTE: For an aluminum platform & flipover equipped with retention ramp, 2" of ground clearance is acceptable at the tip of flipover.

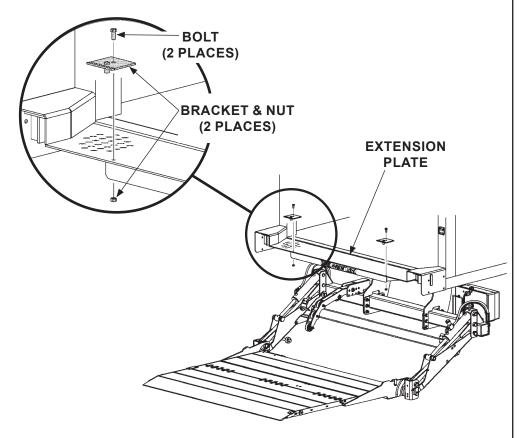
6. If the tip of flipover is more than 1/4" above the ground (FIG. 52-2), note the distance "B" above ground level. See the exception in the NOTE above. Distance "B" will be used for adjusting the platform later in this procedure.



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STEP 11 - ADJUST PLATFORM (IF REQUIRED) - Continued

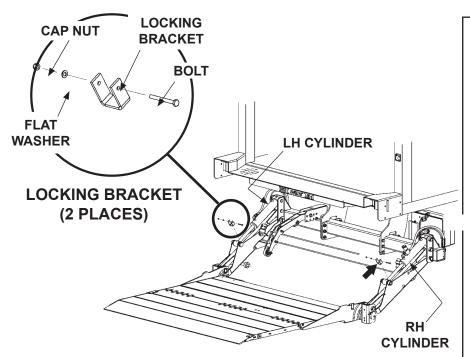
7. Reinstall 2 installation brackets on extension plate (**FIG. 53-1**).



REINSTALLING INSTALLATION BRACKETS FIG. 53-1

- Continued

 Reinstall locking brackets on both cylinders (FIG. 54-1). Bolt each locking bracket in place.



REINSTALLING LOCKING BRACKETS FIG. 54-1

- **9.** Review the **WARNING** page at the front of this manual before continuing this procedure. **Stay clear of moving Liftgate parts.**
- 10. RAISE platform to position just below extension plate (see FIG. 54-2). Refer to operating instructions in Operation Manual.

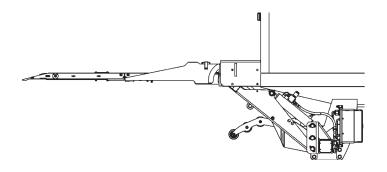


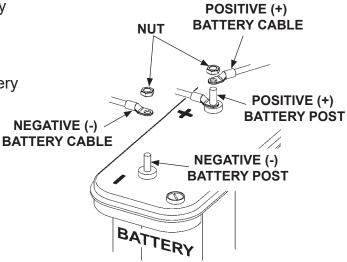
FIG. 54-2

STEP 11 - ADJUST PLATFORM (IF REQUIRED) - Continued

WARNING

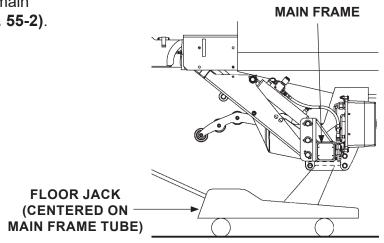
To prevent accidental personal injury and equipment damage, make sure power is disconnected from Liftgate while installing parts.

11. Disconnect power to the pump by disconnecting negative (-) and positive (+) cables from battery (FIG. 55-1). Reinstall nuts on negative (-) and positive (+) battery terminals.



DISCONNECTING BATTERY POWER FIG. 55-1

12. Support the Liftgate under main frame with a floor jack (FIG. 55-2).



SUPPORTING LIFTGATE FIG. 55-2

STEP 11 - ADJUST PLATFORM (IF REQUIRED) - Continued

A CAUTION

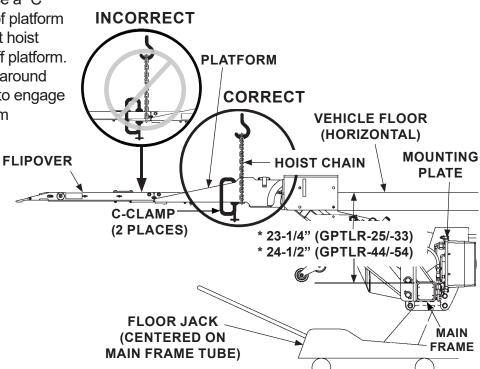
To prevent damage to aluminum flipover, and to keep liftgate from falling off the jack, NEVER hoist the Liftgate by the flipover (INCORRECT way shown below). Hoist the Liftgate only by the platform (CORRECT way shown below).

NOTICE

Maintain distance between vehicle floor and top of main frame at center of main frame as shown in the instructions. Dimension tolerance is +/- 1/4". Never apply force at the ends of the main frame tube to change the floor clearance.

13. Attach hoist to prevent platform from falling (FIG. 56-1). Make sure hoist is set up the correct way (FIG. 56-1). Place a "C" clamp on each side of platform (FIG. 56-1) to prevent hoist chain from slipping off platform. Wrap the hoist chain around width of the platform to engage the chain with platform

(FIG. 56-1).



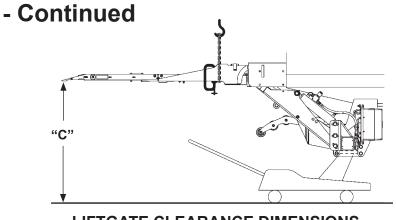
* TOLERANCE IS +/- 1/4"

CORRECT WAY TO HOIST LIFTGATE FIG. 56-1

14. Make sure vehicle floor is horizontal. Maintain distance between floor and top of main frame as shown in FIG. 56-1.

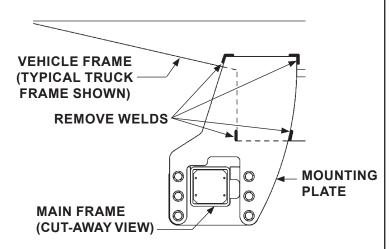
STEP 11 - ADJUST PLATFORM (IF REQUIRED)

15. Measure distance "C" from the tip of the flipover to ground level (FIG. 57-1). Next, subtract the distance "B" measured in instruction 6. The result is distance "D" for the platform adjustment (FIG. 57-3). For example, if you measured 50" for "C" and 1" for "B", the calculated distance "D" for the platform adjustment is 49".



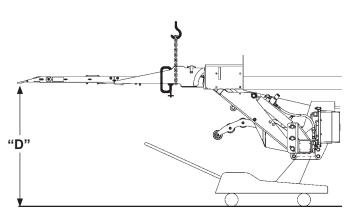
LIFTGATE CLEARANCE DIMENSIONS FIG. 57-1

16. Remove welds from RH side and LH side mounting plates **(FIG. 57-2)**.



REMOVING WELDS FROM MOUNTING PLATE (RH SIDE SHOWN) FIG. 57-2

17. Raise or lower the floor jack to adjust distance "D" between tip of flipover and ground level (FIG. 57-3). Use the distance "D" calculated in instruction 15.



LIFTGATE CLEARANCE DIMENSIONS FIG. 57-3

STEP 11 - ADJUST PLATFORM (IF REQUIRED) - Continued

CAUTION

When using an electric welder, connect the welder ground to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts.

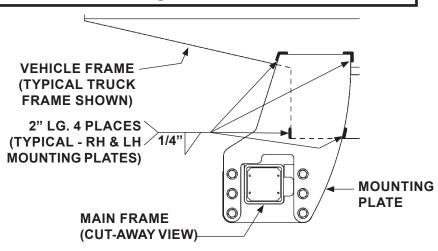
CAUTION

Prevent damaged hydraulic hoses. Before welding next to hydraulic hoses, protect the hoses with a heat-resistant cover.

CAUTION

To protect the original paint system, a 3" wide area of paint must be removed from all sides of the weld area before welding.

18. Clamp the RH side and LH side mounting plates to vehicle frame. Weld the mounting plates to vehicle frame as shown in FIG. 58-1. Remove clamps.

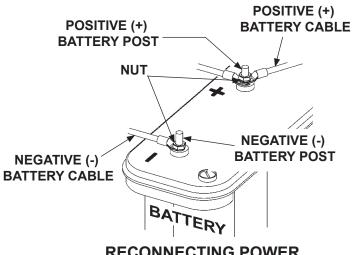


NOTICE

Protect electrical connections on the batteries and circuit breaker with a corrosion preventative spray.

19. Reconnect power to the pump by reconnecting positive (+) and negative (-) cables to battery (FIG. 58-2). Reinstall and tighten nut when each battery cable is reconnected. Ensure battery cable connections are clean, tight, and protected from corrosion.

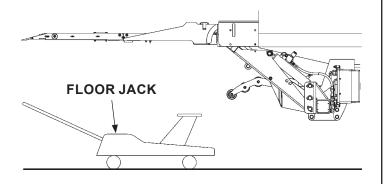
WELD TO VEHICLE FRAME AND MAIN FRAME (RH SIDE SHOWN) FIG. 58-1



RECONNECTING POWER FIG. 58-2

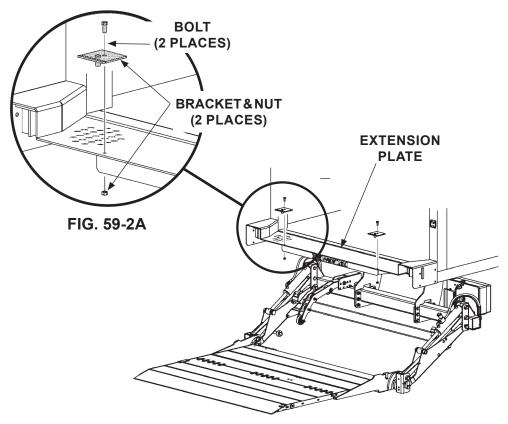
STEP 11 - ADJUST PLATFORM (IF REQUIRED) - Continued

20. Remove floor jack and hoist supporting Liftgate (FIG. 59-1).



REMOVING JACK FIG. 59-1

21. LOWER the Liftgate to ground level (FIG. 59-2). Remove the installation brackets from RH side and LH side of platform (FIG. 59-2A).

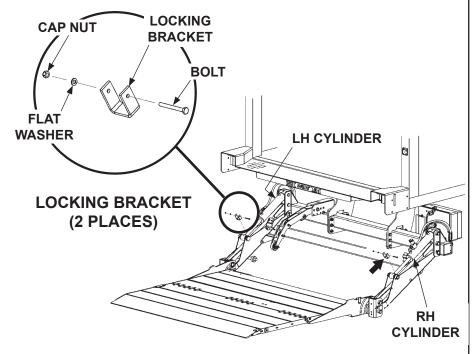


REMOVING INSTALLATION BRACKETS FIG. 59-2

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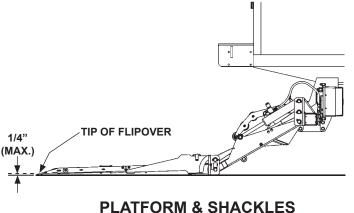
STEP 11 - ADJUST PLATFORM (IF REQUIRED) - Continued

22. Unbolt and remove the locking brackets from both cylinders (**FIG. 60-1**).



REMOVING LOCKING BRACKETS FIG. 60-1

23. Recheck the distance between tip of the platform and the ground (FIG. 60-2). Verify the clearance is not more than 1/4". If clearance is more than 1/4", repeat the adjustment procedure in STEP 11.



PLATFORM & SHACKLES TOUCH GROUND FIG. 60-2

STEP 12 - FINISH WELDING LIFTGATE TO VEHICLE

A WARNING

Liftgate is shipped from factory with mounting plates bolted to the main frame. Weld the mounting plates as shown in illustrations before operating Liftgate.

CAUTION

When using an electric welder, connect the welder ground to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts.

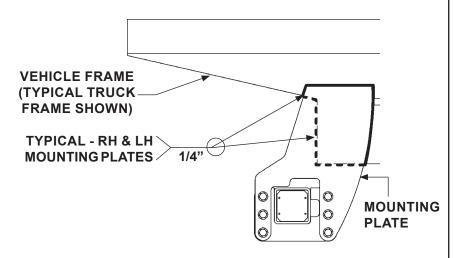
CAUTION

Prevent damage to hydraulic hoses. Before welding next to hydraulic hoses, protect the hoses with a heat-resistant cover.

CAUTION

To protect the original paint system, a 3" wide area of paint must be removed from all sides of the weld area before welding.

Weld the mounting plates to vehicle frame as shown in FIG. 61-1.



WELD TO VEHICLE FRAME (RH SIDE SHOWN) FIG. 61-1

STEP 13 - WELD TRUCK BODY TO FRAME (TRUCKS ONLY)

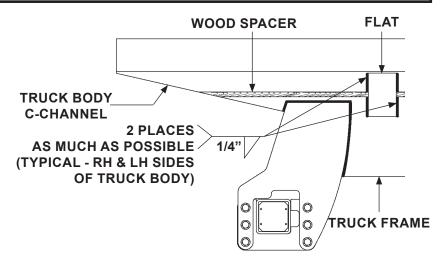
CAUTION

When using an electric welder, connect the welder to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts.

CAUTION

To prevent truck body from moving out of position, weld the C-channels on each side of truck body to truck frame.

1. Fabricate two flats, from 1/4" thick x 4" wide steel, that will fit in the area on the truck frame shown in FIG. 62-1.



WELDING TRUCK BODY TO FRAME (RH SIDE SHOWN) FIG. 62-1

CAUTION

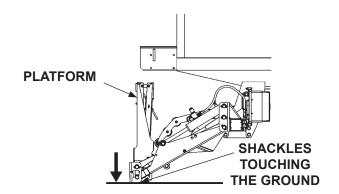
To protect the original paint system, a 3" wide area of paint must be removed from all sides of the weld area before welding.

2. Weld flat to the truck frame and the C-channel on the RH side of truck body as shown in FIG. 62-1. Ensure welds on flat are the same length above and below the wood spacer (FIG. 62-1). Repeat for the LH side of the truck body.

STEP 14 - ADJUST OPENER (IF REQUIRED)

NOTE: The platform must always stow and unfold without hitting underside of vehicle. Platform should unfold as close as possible to position shown in **FIG. 63-1**, but must never be positioned so it falls open.

 The MAXON-recommended procedure for repositioning the opener is as follows. Lower the platform from stowed position (FIG. 63-1).

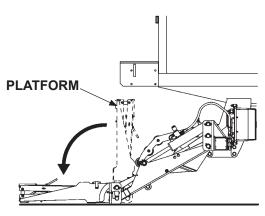


PLATFORM LOWERED FROM STOWED POSITION (RH SIDE VIEW) FIG. 63-1

A CAUTION

To prevent injury, unfold platform before repositioning opener.

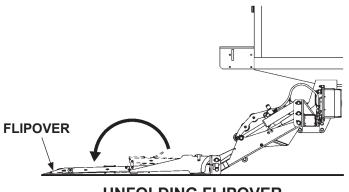
2. Unfold the platform (FIG. 63-2).



UNFOLDING PLATFORM FIG. 63-2

3. Unfold the flipover (FIG. 63-3).

4. Measure vehicle bed height.
Then move the opener, as required, to the matching bed height position for your Liftgate as shown in FIG. 65-1A and FIG. 66-1A.



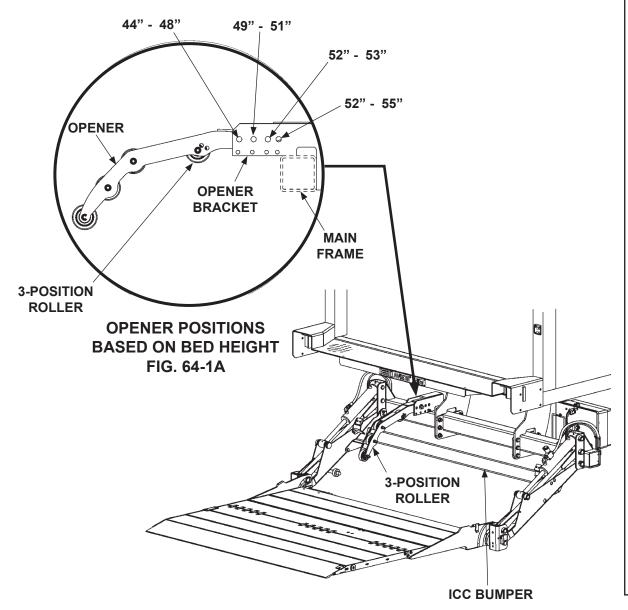
UNFOLDING FLIPOVER FIG. 63-3

STEP 14 - ADJUST OPENER (IF REQUIRED) - Continued

CAUTION

To prevent damage to ICC bumper, opener must not rub against bumper. Ensure the 3-position roller remains in contact with ICC bumper at first contact and through the full range of motion to highest position. Bolt roller in one of the 3 hole positions that best maintains contact between roller and bumper.

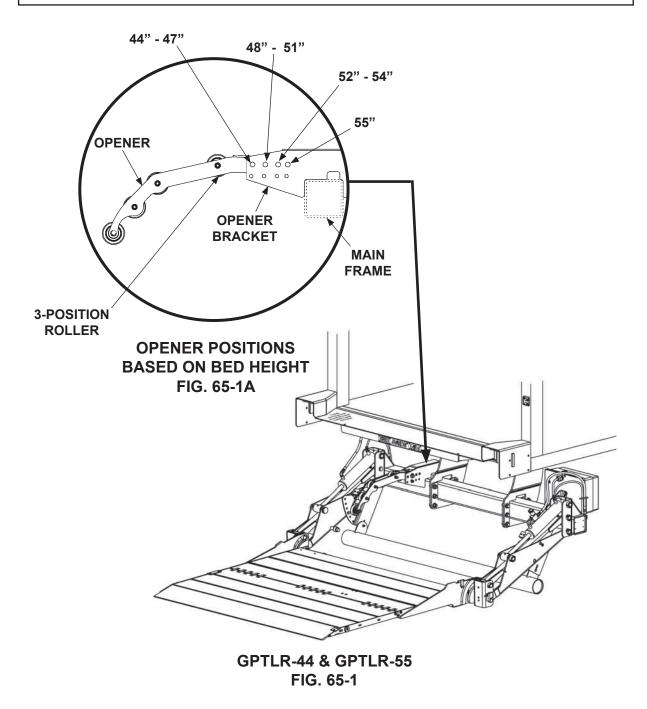
NOTE: Opener can be repositioned to best open the platform when vehicle bed heights are 46" to 55". The platform must always stow and unfold without hitting underside of vehicle. Platform should unfold as close as possible to position shown in FIG. 64-2, but must never be positioned so it falls open.



GPTLR-25 OR GPTLR-33 FIG. 64-1

STEP 14 - ADJUST OPENER (IF REQUIRED) - Continued

NOTE: Opener can be repositioned to best open the platform when vehicle bed heights are 44" to 55". The platform must always stow and unfold without hitting underside of vehicle. Platform should unfold as close as possible to position shown in FIG. 64-2, but must never be positioned so it falls open.

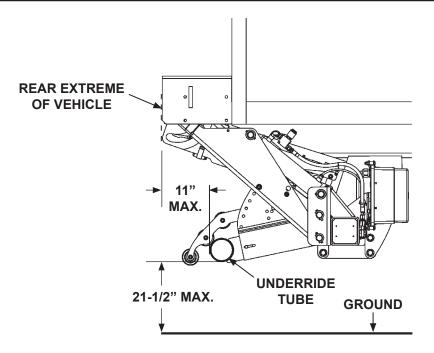


STEP 15 - ADJUST UNDERRIDE

NOTE: This underride adjustment procedure is for:

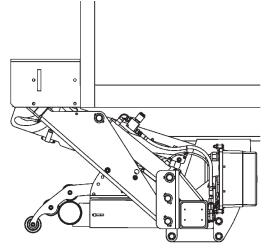
- GPTLR-25 & GPTLR-33 with Federal Motor Vehicle Safety Standard (FMVSS) optional underride
- GPTLR-44 & GPTLR-55 with standard FMVSS underride
- GPTLR-44 & GPTLR-55 with Canadian Motor Vehicle Safety Standard (CMVSS) underride

NOTE: For 5" tubular underride to meet applicable FMVSS and CMVSS regulations, ground clearance must not exceed 21-1/2" from the bottom of the tube. Also, the rear-facing part of the underride tube must not exceed 11" from the rear extreme of the vehicle. Refer to FIG. 66-1.



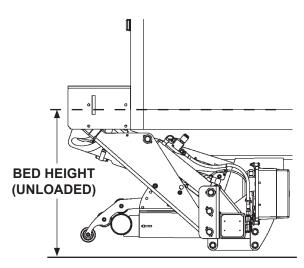
GPTLR-44 OR GPTLR-55 LIFTGATE, EQUIPPED WITH STANDARD UNDERRIDE, SHOWN WITH **MAXIMUM ALLOWABLE CLEARANCES** FIG. 66-1

1. Stow the Liftgate under hydraulic pressure (FIG. 67-1).



LIFTGATE WITH PLATFORM STOWED (STANDARD UNDERRIDE SHOWN) FIG. 67-1

2. Measure vehicle bed height (FIG. 67-2).



MEASURING BED HEIGHT (STANDARD UNDERRIDE SHOWN) FIG. 67-2

NOTE: If underride is already bolted in correct position for your bed height, and if tube position is adjustable, go to the instructions for **ADJUSTING UNDERRIDE TUBE.**

3. Refer to FIGS. 69-1A, 69-2A, and 70-1A to find the hole position that matches your model of Liftgate, underride, and bed height.

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STEP 15 - ADJUST UNDERRIDE - Continued

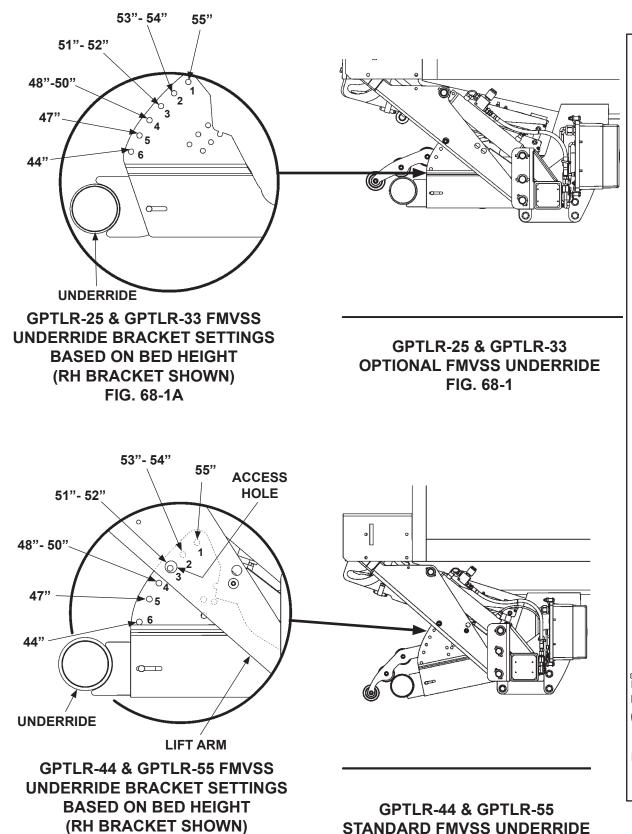
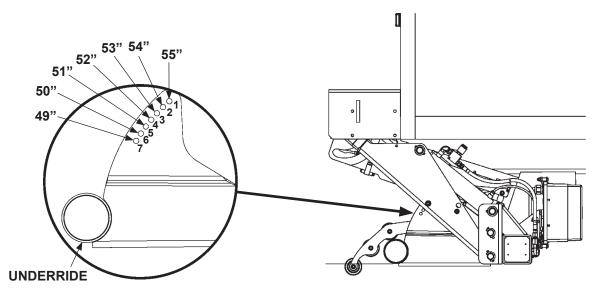


FIG. 68-2

FIG. 68-2A



GPTLR-44 & GPTLR-55 CMVSS UNDERRIDE BRACKET SETTINGS BASED ON BED HEIGHT (RH BRACKET SHOWN) FIG. 69-1A

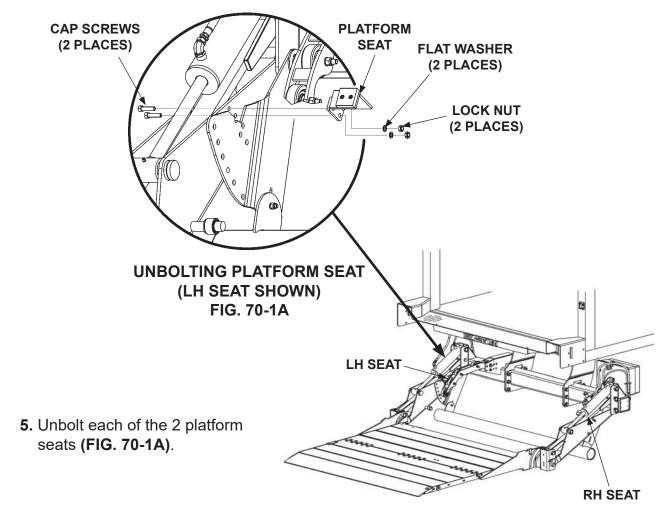
GPTLR-44 & GPTLR-55 OPTIONAL CMVSS UNDERRIDE FIG. 69-1

NOTE: If your underride is not in the correct position for bed height of vehicle, perform the following procedure.

ADJUSTING UNDERRIDE ASSEMBLY

NOTE: Platform seats must be removed from lift arms to adjust position of underride assembly. Seats must be reinstalled after adjusting position.

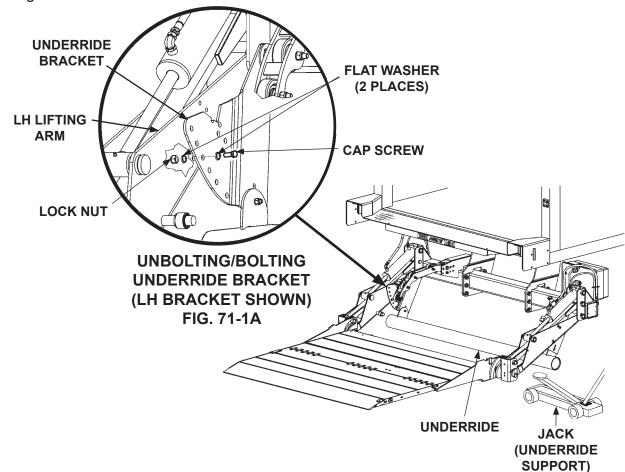
4. Lower platform to the ground. Then, unfold platform and flipover (FIG. 70-1).



LIFTGATE WITH PLATFORM ON THE GROUND (STANDARD FMVSS UNDERRIDE SHOWN) FIG. 70-1

NOTE: At the lowest bed heights, underride may have too little ground clearance for a jack. If necessary, raise the platform up to 6" to get a jack in position to support the underride.

6. Adjust position of the underride assembly as follows. Support underride with floor jack (FIG. 71-1). Next, unbolt LH underride bracket (FIG. 71-1A) and RH underride bracket from lifting arms.



ADJUSTING UNDERRIDE (STANDARD FMVSS UNDERRIDE SHOWN) FIG. 71-1

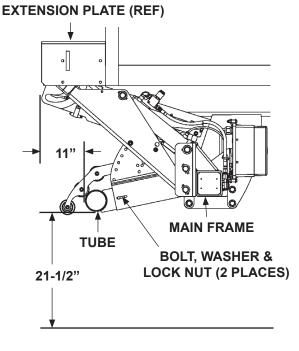
- 7. Swing the underride to the hole setting observed in FIGS. 68-1A, 68-2A, 69-1A or 70-1A. Bolt the underride brackets in the new position (FIG. 71-1A). Torque the 1/2"-13 cap screws to 85 lb-ft.
- 8. Lower and remove floor jack (FIG. 71-1).

NOTE: The only models with an adjustable underride tube are

- Optional FMVSS underride (GPTLR-25 & GPTLR-33)
- Standard FMVSS underride (GPTLR-44 & GPTLR-55).

ADJUSTING UNDERRIDE TUBE

9. Stow the platform. Refer to FIG. 72-1. Loosen bolt and lock nut, at each end of tube, just enough to move underride tube (FIG. 72-1). Rotate the tube up or down, and slide the tube outward or inward to the dimensions shown in FIG. 72-1. Tighten bolts and lock nuts to secure tube in correct position.



UNDERRIDE TUBE ADJUSTMENT (RH SIDE SHOWN) FIG. 72-1

CAUTION

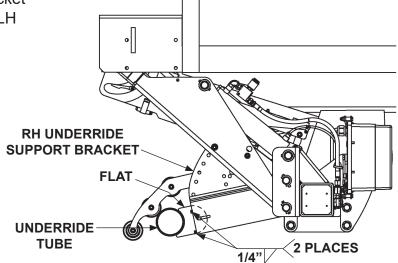
When using an electric welder, connect the welder to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts.

CAUTION

Prevent the date of manufacture decal from being damaged. Cover decal when welding underride support brackets.

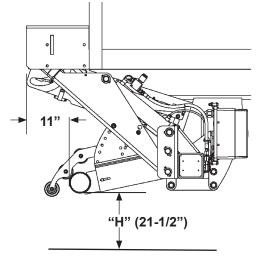
NOTE: Grind galvanized surface material from areas to be welded.

10. Tack weld flat, on underride tube, to RH support bracket (FIG. 73-1). Repeat for LH support bracket.

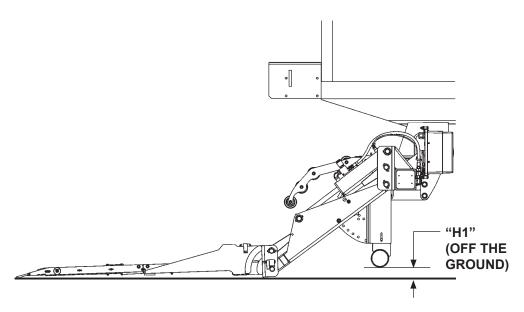


TACK WELDING FLATS TO SUPPORT **BRACKETS (RH SIDE SHOWN)** FIG. 73-1

11. With platform stowed, measure and record ground clearance "H" (FIG. 74-1). Then, lower the platform to the ground to measure ground clearance "H1" (FIG. 74-2). Compare measurements with TABLES 76-1, 77-1 and 77-2.



STANDARD FMVSS UNDERRIDE FIG. 74-1



STANDARD FMVSS UNDERRIDE FIG. 74-2

NOTE: The bed height dimensions, for each underride hole shown below, apply to an unloaded vehicle.

RECOMMENDED BOLTED HOLE POSITIONS FOR OPTIONAL FMVSS UNDERRIDE INSTALLED ON GPTLR-25 & GPTLR-33					
BED HEIGHT	UNDER- RIDE HOLE NO.	"H" EXPECTED UNDER- RIDE GROUND CLEARANCE (PLATFORM STOWED)	"H1" EXPECTED UNDERRIDE GROUND CLEARANCE & MAX SPRING DEFLECTION OF VEHICLE WITH LOAD (PLATFORM ON THE GROUND)		
55"	1		6.3"		
54"	2		5.5"		
53"	2		4.7"		
52"	3		4.0"		
51"	3		3.4"		
50"	4	21.5"	2.9"		
49"	4		2.4"		
48"	4		2.0"		
47"	5		1.7"		
44"	6		1.4"		

TABLE 75-1

NOTE: The bed height dimensions, for each underride hole shown below, apply to an unloaded vehicle.

RECOMMENDED BOLTED HOLE POSITIONS FOR STANDARD FMVSS UNDERRIDE INSTALLED ON GPTLR-44 & GPTLR-55					
BED HEIGHT	UNDER- RIDE HOLE NO.	"H" EXPECTED UN- DERRIDE GROUND CLEARANCE (PLATFORM STOWED)	"H1" EXPECTED UNDERRIDE GROUND CLEAR- ANCE & MAX SPRING DEFLECTION OF VEHICLE WITH LOAD (PLATFORM ON THE GROUND)		
55"	1		3.6"		
54"	2		2.9"		
53"	2		2.3"		
52"	3		1.8"		
51"	3		1.3"		
50"	4	21.5"	0.9"		
49"	4		0.6"		
48"	4		0.3"		
47"	5		0.1"		
44"	6		0"		

TABLE 76-1

RECOMMENDED BOLTED HOLE POSITIONS FOR OPTIONAL CMVSS UNDERRIDE INSTALLED ON GPTLR-44 & GPTLR-55						
BED HEIGHT	UNDER- RIDE HOLE NO. CLEARANCE (PLATFORM STOWED) "H" EXPECTED UNDERRIDE GROUND CL ANCE & MAX SPRING DEFLECTION VEHICLE WITH LOAD (PLATFORM ON THE GROUND)					
55"	1	21.35"	4.16"			
54"	2 21.36"		3.37"			
53"	3	21.38"	2.70"			
52"	4	21.40"	2.17"			
51"	5	21.41"	1.75"			
50"	6	21.42"	1.44"			
49"	7	21.42"	1.24"			

TABLE 76-2

CAUTION

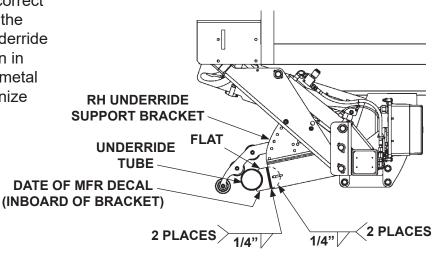
When using an electric welder, connect the welder to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts.

CAUTION

Prevent the date of manufacture decal from being damaged. Cover decal when welding underride support brackets.

NOTE: Grind galvanized surface material from areas to be welded.

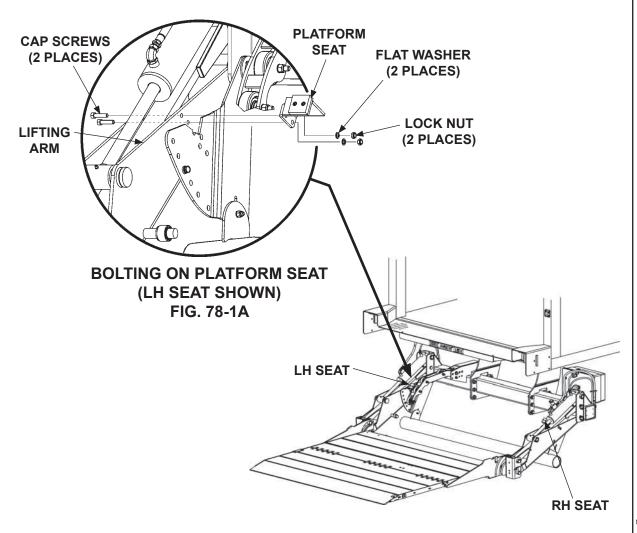
12. When the underride is in correct position, weld the flats on the tube to the RH and LH underride support brackets as shown in FIG. 77-1. Touch up bare metal and welds with cold galvanize spray.



WELDING FLATS TO SUPPORT **BRACKETS (RH SIDE SHOWN)** FIG. 77-1

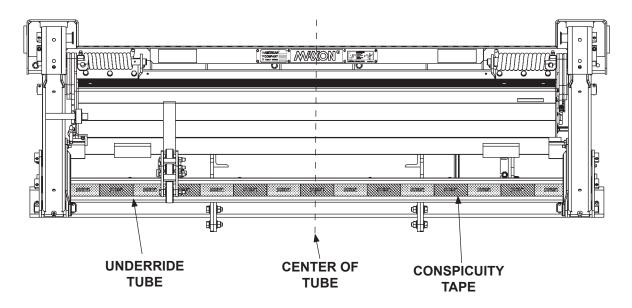
NOTE: For some bed heights, platform seat may be bolted against the underride bracket.

13. Lower platform to the ground (FIG. 78-1). Then, bolt the LH platform seat (FIG. 78-1A) and the RH platform seat in position. Torque the cap screws and lock nuts to 42 lb-ft.



LIFTGATE WITH PLATFORM ON THE GROUND (STANDARD FMVSS UNDERRIDE SHOWN) FIG. 78-1

14. Stow platform (FIG. 79-1). Next, center conspicuity (reflective) tape on the underride tube as shown in FIG. 79-1. Remove backing from tape. Then, attach tape to underride (FIG. 79-1).



ATTACH CONSPICUITY TAPE FIG. 79-1

90670 (800) 227-4116 FAX (888) 771-7713 Santa Fe Springs, CA.

MEXON[®] 11921 Slauson Ave.

STEP 16 - VEHICLE TAILLIGHT POSITIONING (IF REQUIRED)

NOTE: Taillights may interfere with Liftgate. Taillights and attaching hardware are not provided with the Liftgate. If needed, install vehicle taillights to comply with state and federal vehicle lighting requirements, such as FMVSS 108.

ATTACH DECALS

NOTE: Preferred decal layout is shown. Some decals on the Liftgate are attached at the factory. If vehicle does not permit this layout, decals in the manual and decal kit must be applied so that they are easily visible when approaching vehicle to operate Liftgate. Use good common sense when locating these decals on vehicle.

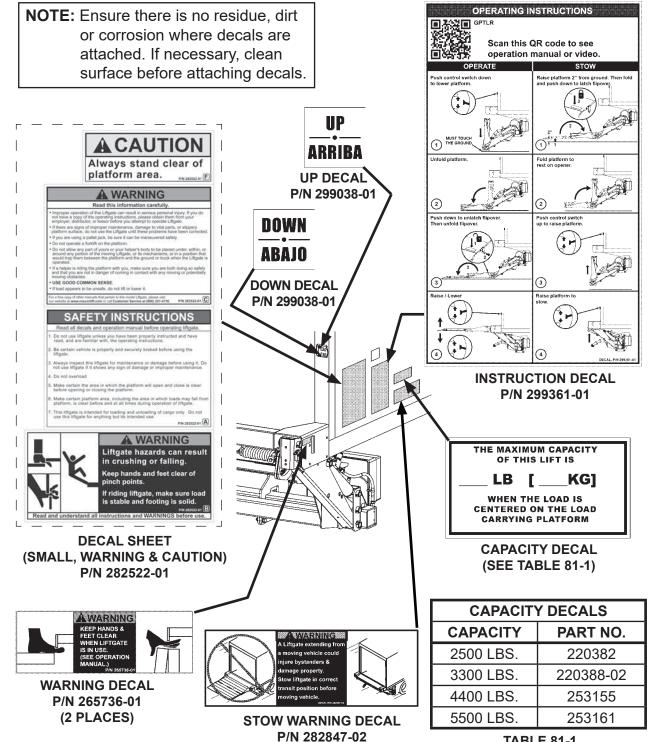
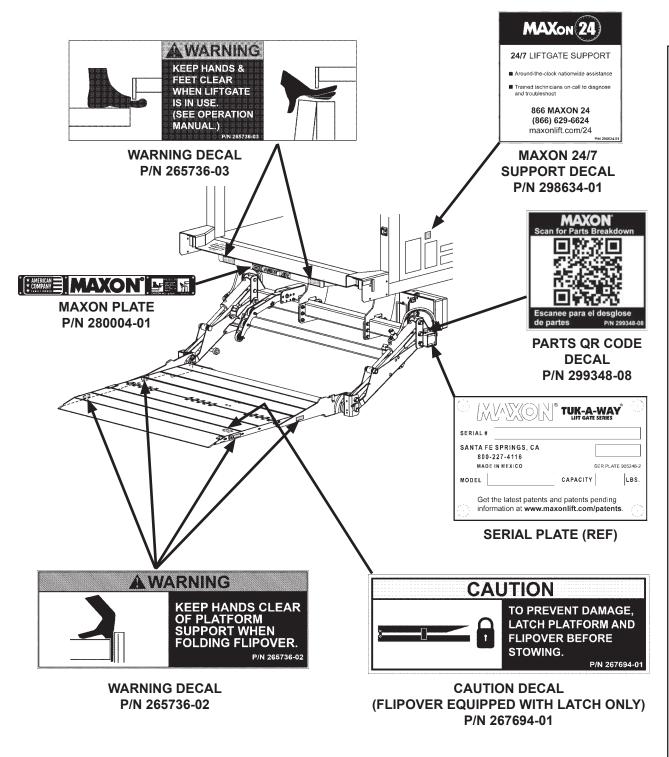


TABLE 81-1

FIG. 81-1

MAXON®

DECALS & PLATES



NOTE: MAXON 24/7 LIFTGATE SUPPORT service is only available in the Continental U.S.

FIG. 82-1

ATTACH NONSKID & SAFETY STRIPING

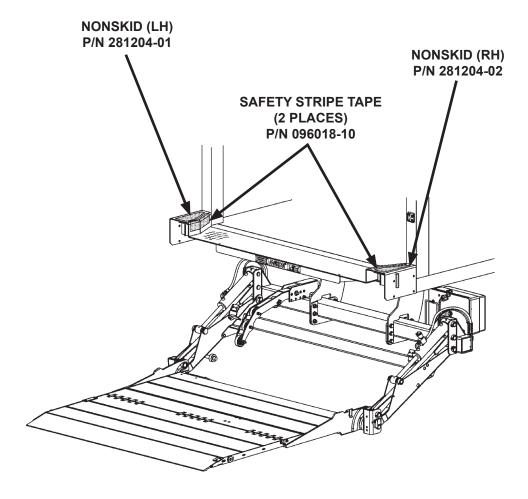


FIG. 83-1

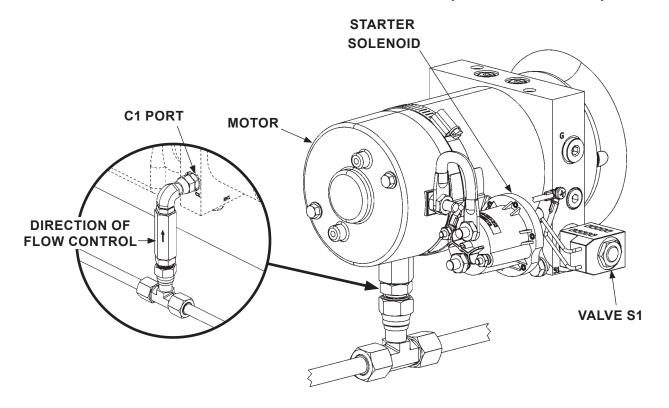
TOUCHUP GALVANIZED FINISH

CAUTION

Damaged cylinder seals and contaminated hydraulic fluid can result from applying cold galvanized finish to the polished portion of the cylinder rod. To prevent damage, protect the exposed polished portion of the cylinder rod while spraying.

If bare metal is exposed on galvanized portions of the Liftgate, touch up the galvanized finish. To maintain the protection provided by the original galvanized finish, MAXON recommends cold galvanize spray.

SYSTEM DIAGRAMS PUMP & MOTOR SOLENOID OPERATION (GRAVITY DOWN)



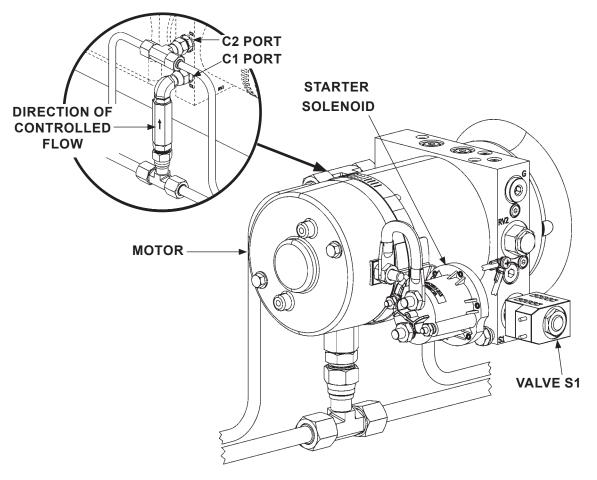
GRAVITY DOWN POWER UNIT FIG. 85-1

POWER UNIT MOTOR & SOLENOID OPERATION						
LIFTGATE	PORT	SOLENOID OPERATION (MEANS ENERGIZED)				
FUNCTION		MOTOR	VALVE S1	LOCK VALVE*		
RAISE	C1	\				
LOWER	Ci		>	>		
REFER TO VALVES SHOWN ON						
HYDRAULIC SCHEMATIC						

^{*} Lock valve located on RH hydraulic cylinder.

TABLE 85-1

PUMP & MOTOR SOLENOID OPERATION (POWER DOWN)



POWER DOWN POWER UNIT FIG. 86-1

POWER UNIT MOTOR & SOLENOID OPERATION							
LIFTGATE FUNCTION	PORT	SOLENOID OPERATION (✓ MEANS ENERGIZED)					
		MOTOR	VALVE S1	LH LOCK VALVE*	RH LOCK VALVE*		
RAISE	C1	✓ ✓					
LOWER C2 ✓ ✓ ✓							
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC							

TABLE 86-1

^{*} Lock valves located on hydraulic cylinders.

HYDRAULIC SCHEMATIC (GRAVITY DOWN)

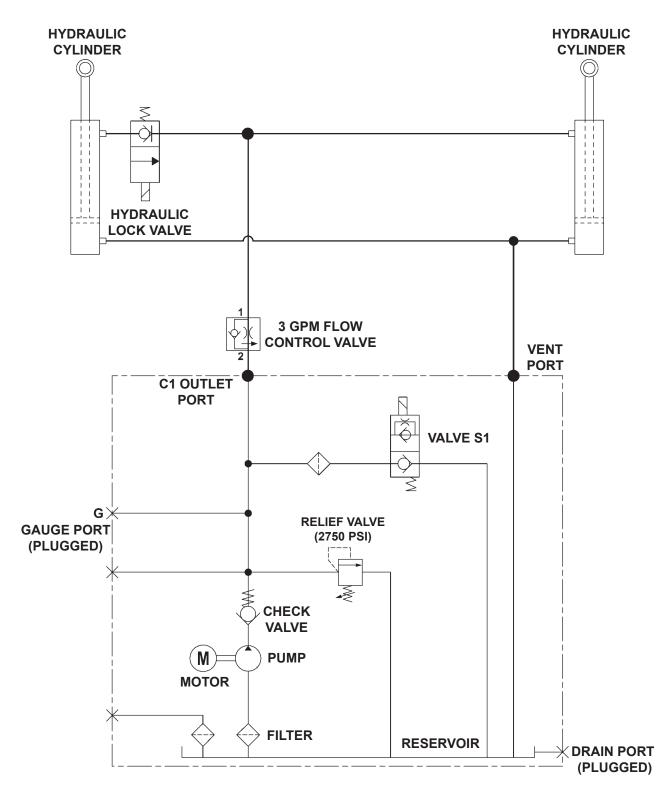


FIG. 87-1

HYDRAULIC SCHEMATIC (POWER DOWN)

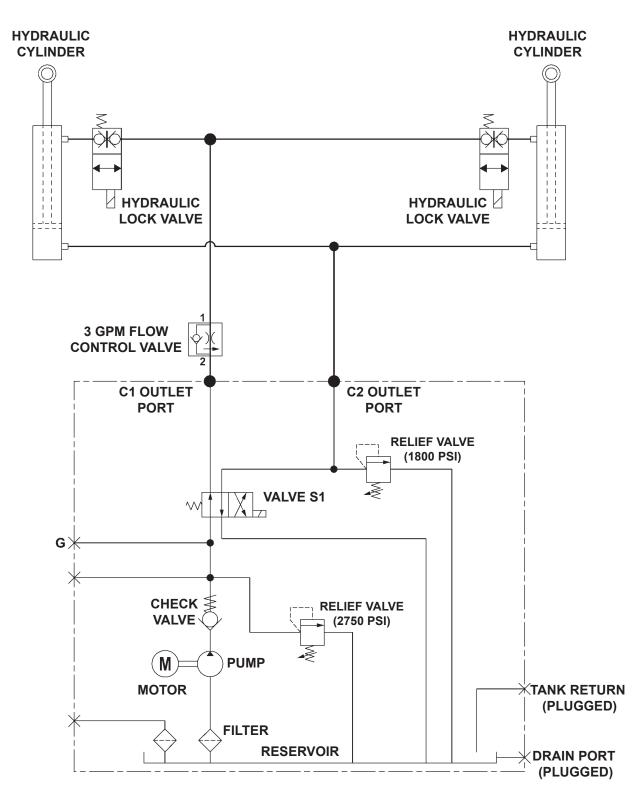


FIG. 88-1

ELECTRICAL SCHEMATIC (GRAVITY DOWN)

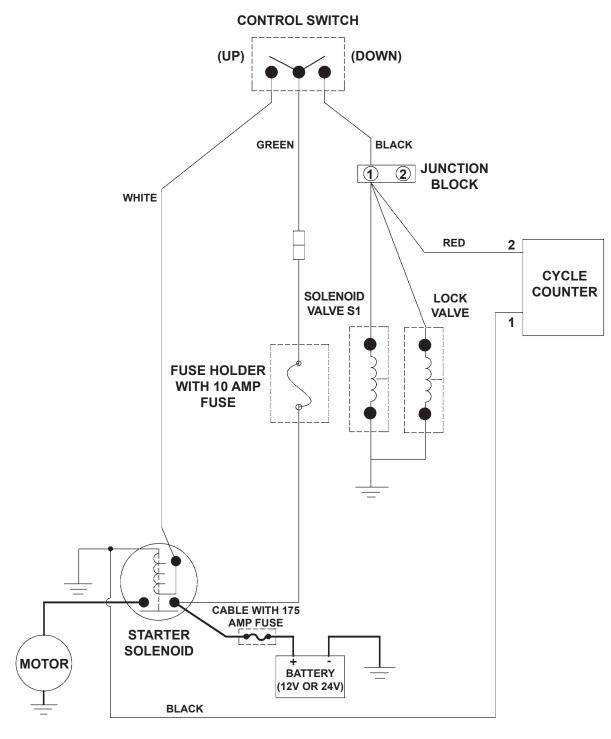


FIG. 89-1

ELECTRICAL SCHEMATIC (POWER DOWN)

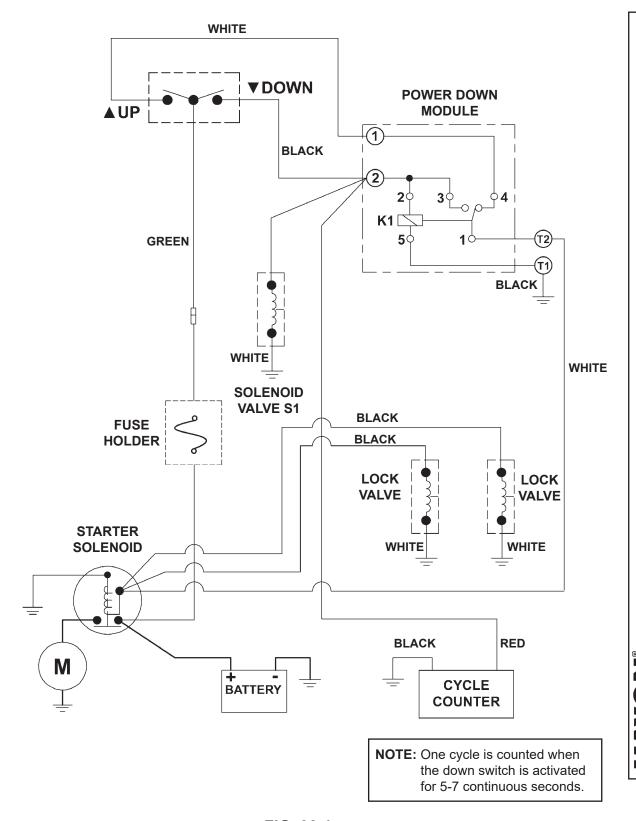


FIG. 90-1

SYSTEM DIAGRAMS GPTLR ELECTRICAL VALUES & TORQUE SPECIFICATIONS

Solenoid Switch	12V	24V	
Coil resistance:	5.4Ω @70°F. ±15%	20.1Ω @70°F. ±15%	
Ampere:	2.2A	1.2A	
Coil terminal torque: 10-15 lb-in max.			
Contact terminal torque: 30-35 lb-in max.			
Solenoid Valves (A, S1, & S2)			
Coil resistance:	4Ω @ 70°F. ±15%	26.7Ω @ 70°F. ±15%	
Ampere:	3A @ 12V (2.5A @10V)	.9A	
Coil terminal torque: 15-45 lb-in max.			
Valve cartridge torque: 25-30 lb-ft max.			
Coil nut torque: 15-45 lb-in			
Solenoid Lock Valve			
Coil resistance:	8Ω @ 70°F. ±15%	30Ω @ 70°F. ±15%	
Ampere:	1.5A	0.8A	
Coil nut torque: 3-4.5 lb-ft max.			
Valve cartridge torque: 18.5-22 lb-ft max.			
Digital Cycle Counter			
Input voltage	4V - 30V	4V - 30V	
Ampere	<2mA		
Ground Cable			
Cap screw torque: 24 lb-ft max.			

TABLE 91-1

OPTIONS

MISCELLANEOUS KITS	PART NO.
IN CAB ON-OFF SWITCH	250477
FRAMELESS TRAILER, GPTLR, 102" WIDE	282562-01
FRAMELESS TRAILER, GPTLR, 102" WIDE, GALVANIZED	282562-01G
FRAMELESS TRAILER, GPTLR, 96" WIDE	282562-02
FRAMELESS TRAILER, GPTLR, 96" WIDE, GALVANIZED	282562-02G
CIRCUIT BREAKER (150 AMP)	251576
TRAFFIC CONES	268893-01
FRAME MOUNTING BRACKET FOR 2 OVAL LIGHTS, GALVANIZED	282372-01G
FRAME MOUNTING BRACKET FOR 2 OVAL LIGHTS, NO FINISH	282372-03
HAND PUMP, GPTLR	212572-01
LICENSE PLATE BRACKET AND LIGHT	210799-01
LICENSE PLATE BRACKET	210799-02
EXTRA CONTROLS & CONTROL KITS	PART NO.
HAND HELD CONTROL, TUK-A-WAY	280570-07
HAND HELD CONTROL, TUK-A-WAY, 120"	263260-13
HAND HELD CONTROL, TUK-A-WAY, 240"	263260-14
STREET SIDE CONTROL, TUK-A-WAY	297116-01
DUAL CONTROL, TUK-A-WAY	297115-01
STEP KITS	PART NO.
DUAL STEP, GPTLR-25/33, GALVANIZED	281312-01G
DUAL STREET SIDE STEP GPTLR-25/33 GALVANIZED	281312-02G
DUAL CURB SIDE STEP, GPTLR-25/33 GALVANIZED	281312-03G
DUAL STEP, GPTLR-44/55, GALVANIZED	281311-01G
FOLD DOWN STEP ALL GPTLR'S (1 KIT PER SIDE)	267835-01
DUAL STEP, FLEX, GPTLR-25/33, GALVANIZED	281312-01-101G
DUAL STEP, FLEX, GPTLR-44/55, GALVANIZED	281311-01-201G
BUMPER KITS	PART NO.
RUBBER DOCK BUMPER, GPTLR-25/33	281305-02
RUBBER DOCK BUMPER, GPTLR-44/55	281305-01
DOCK BUMPER, 3-1/2" X 7" X 1-1/2", UHMW, GPTLR-25/33 ONLY	281517-02
DOCK BUMPER, 3-1/2" X 7" X 2", UHMW, GPTLR-44/55 ONLY	282333-01

MAXON[®]

PRE-DELIVERY INSPECTION FORM

Important! This pre-delivery checklist is to aid the installer in confirming the proper installation of this Maxon product. It is not a comprehensive list and does not replace the use of the installation manual. The installer is responsible for following all instructions in the installation manual.

Model:			Date:				
Se	Serial Number:			Technician:			
Pr	Pre-Installation Inspection:			Operation Inspection:			
St	Correct model		N	OTE: The following times are for 55" bed height, aluminum platform and flipover, Exxon Univis HVI-13 oil, & temperature at 70°F. Times are for reference only and may vary for larger platforms, smaller platforms, or temperature changes.			
	Inspect all installation welds Check roll pins, bolts and fasteners Inspect tightness of hardware used to secure			Check operation of all main and optional control switches.			
	liftgate to vehicle. Ensure platform ramp tip touches ground or is not more than 1/4 " off the ground.		0	GPTLR-25 or GPTLR-33 only Unloaded platform lowers in 6 sec. Unloaded platform raises in 15 sec.			
	Ensure bottom of underride tube is not more than 21-1/2" off the ground and not more than 11" forward of the extreme rear of vehicle. Up-stop bumpers are secure in position under		0	GPTLR-44 or GPTLR-55 only Unloaded platform lowers in 10 sec. Unloaded platform raises in 25 sec.			
Hy	the extension plate. /draulic Inspection: Proper fluid level (See CHECKING			All GPTLR: Unloaded platform raises and lowers evenly. At the extension plate, platform must not be more than 1/4 " uneven, from side			
	HYDRAULIC FLUID step in this manual.) Check hydraulic fittings in pump box for leaks Check hydraulic line connections for leaks			to side. All GPTLR: Breakaway force to unfold platform is 30 lb-ft maximum. Breakaway force to			
EI	ectrical Inspection:			fold platform is 40 lb-ft maximum.			
	Check power/charge plug and terminal Check for tight wire connections Circuit breaker (150A) installed in battery box (if equipped) or by truck/tractor battery.			All GPTLR: Platform stores securely under vehicle body Check if cycle counter works Decals in correct location and legible			
	Ensure batteries are fully charged, all cable connections are tight & protected from corrosion and tiedowns are tight.			rify all lights are operational or lights supplied by MAXON only) Platform lights turn ON when platform is un-			
	Inspect all solenoid connections Check all wiring harness connections Check electrical cable connections are tight, secure, and protected from corrosion.			folded, and turn OFF when platform is stowed. Taillights, stop lights, turn lights, and backup lights turn ON and OFF correctly.			