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SUMMARY OF CHANGES: M-17-05

PAGE	DESCRIPTION OF CHANGE			
5	Changed WARNING for welding galvanized steel to reference AWS D19.0.			
7	Main assembly shows new bolt-on mounting plates.			
8	Added Installation Parts Box Tables A, B & C. Added new molded, toggle switch assembly, Added new 1/2" X 5/16" flat washer, 1-1/2" long self-tapping screws for control switch assembly, and 1/2" long self-tapping screws for rubber loom clamp. Added ground cable assembly, 2 GA X 48' LG.			
9	Updated GPT series manuals and decals part numbers.			
17	Added welding note and specifications for bolt-on extension plate.			
18	Removed WARNING for welding galvanized parts. Added note for recommended practices for welding galvanized steel to refer to AWS (American Welding Society) D19.0 Welding Zinc-Coated Steel.			
20	Added illustration and table showing mounting plates for various frame widths.			
20-23	Updated Step 2: Weld Liftgate to Vehicle instructions. Bolt-on mounting plates are not welded to main frame. With bolt-on mounting plates, it's not necessary to remove split loom.			
23	Added electrical welder Caution for connecting welder.			
27	Removed instruction and image regarding welding galvanized decal.			
34, 35, 38, 63	Updated power unit has no thermal switch. Fused power connection shows new 10 AMP fuse holder assembly.			
36	Added new instructions to connect ground cable supplied with parts Box B.			
39	Updated hydraulic fluid reservoir fill level.			
41, 47, 49, 50, 54	Added instructions for disconnecting and reconnecting both negative (-) and posi- tive (+) battery connections.			
47-50	Made separate procedures for GPT's equipped with ICC bumper or underride.			
55	Added 1/2"-13 flange lock nuts for mounting steps to extension plate.			
61	Removed galvanized warning decal.			
61	Updated Platform Warning Decal, P/N 281189-02			
65	Updated electrical schematic show cycle counter (if equipped).			
66	Added GPT electical values.			
67,68	Updated hand-held, street side and dual control kits in the OPTIONS table. Re- moved cold galvanize spray (16 OZ) and bright zinc spray paint (16 OZ). Removed painted step kit options.			

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

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 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.

NOTICE

- 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.

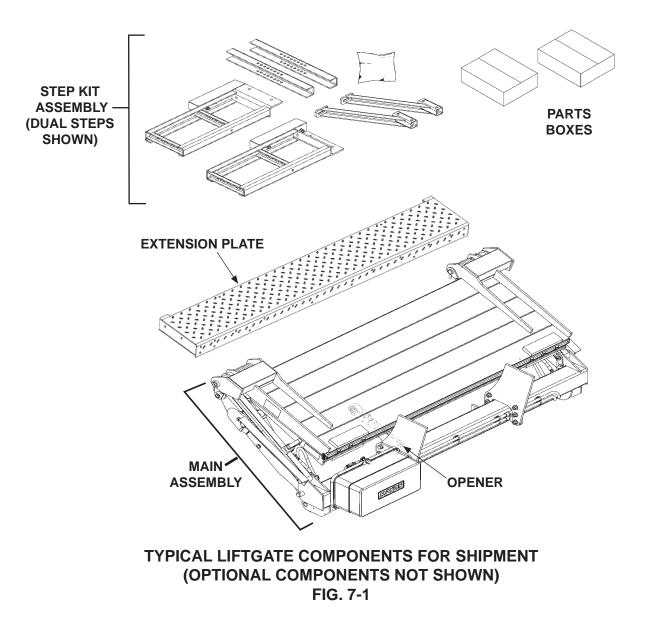
STANDARD LIFTGATE COMPONENTS

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



GPT INSTALLATION PARTS BOXES

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX A	1	297502-01
1	SPRING CLIP, 1/2" x 1-3/8"	10	050079
2	PLASTIC TIE	2	206864
3	#10 RUBBER LOOM CLAMP		801681
4	CABLE ASSEMBLY, 175 AMPS, 38 FT LG.		264422
5	SELF-TAPPING SCREW, 10 X 1/2" LG.	2	030458
6	GROUND CABLE ASSEMBLY, 2 GA X 48" LG.	1	251871-26

PARTS BOX A WITH POWER CABLE TABLE 8-1

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX B	1	297049-02
1	SHIM, 2-1/2" X 1" X 16 GAUGE	2	264732
2	TOGGLE SWITCH ASSEMBLY	1	296855-01
3	FLAT WASHER, 1/2" X 5/16" THICK	2	902000-13
4	HEX NUT, 1/2"-13	2	901011-9
5	CAP SCREW, 1/2"-13 X 1-1/2" LG.	2	900035-3
6	INSTALLATION BRACKET	2	269462-01
7	LUG, 2 GAUGE, COPPER, 5/16"	1	906497-02
8	SCREW, SELF TAPPING, #10-24 X 1-1/2" LG	2	900057-7
9	HEAT SHRINK TUBING, 3/4" X 1-1/12" LG.	1	253316-04
10	FLAT, 2-1/2" X 1" X 1/8" THICK	2	201999
11	LICENSE PLATE BRACKET KIT	1	287015-01

PARTS BOX B WITHOUT POWER CABLE, GROUND CABLE, OR FRAME CLIPS TABLE 8-2

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX C	1	297502-02
1	SPRING CLIP	20	050079
2	PLASTIC TIE	4	206864
3	GROMMET, 1" DIA, 2 HOLES	1	266428-09
4	CABLE ASSY, 175 AMP 38 FT LG	1	264422
5	GROUND CABLE ASSY, 2 GA X 38FT LG	1	269191-01
6	#10 LOOM CLAMP	2	801681
7	SELF-TAPPING SCREW, 10 X 1/2" LG.	2	030458

PARTS BOX C WITH GROUND CABLE TABLE 8-3

GPT-SERIES MANUALS & DECALS

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

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF DECAL & MANUAL KIT		1	298125-01 (GPT-25)
			298125-02 (GPT-3)
			298125-03 (GPT-4)
			298125-04 (GPT-5)
1	INSTALLATION MANUAL (GPT)	1	M-17-05
2	OPERATION MANUAL (GPT & GPTWR) 1		M-17-07
3	DECALS (SEE DECAL PAGES IN THIS MANUAL)	1	(ALL GPT'S)

TABLE 9-1

NOTE: BODY maximum and minimum operating bed height: For all GPT models with standard platform:

Maximum height is 55" (Unloaded). Minimum height is 46" (Loaded). On vehicle bodies equipped with swing open doors, the extension plate and vehicle body must be modified to install this Liftgate.

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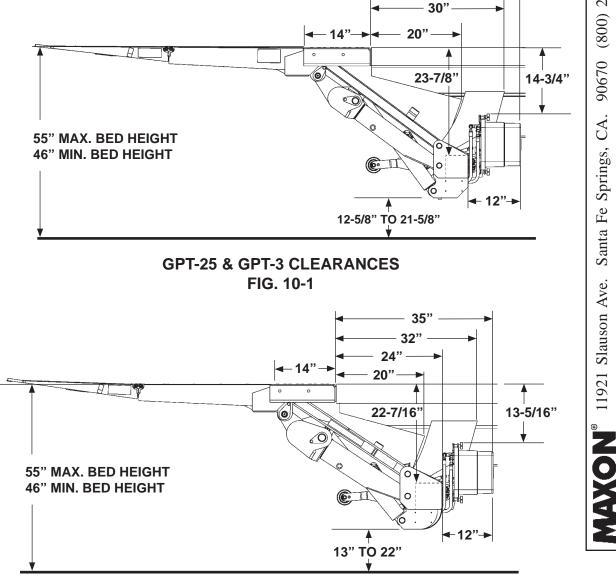
90670

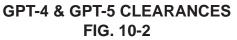
Santa Fe Springs, CA.

NOTE: Make sure vehicle is parked on level ground while preparing vehicle and installing Liftgate.

NOTE: Dimensions are provided as reference for fitting Liftgate to vehicle body.

1. Check for correct clearances (FIGS. 10-1 & 10-2) on vehicle to prevent interference between vehicle and Liftgate. 33"





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VEHICLE REQUIREMENTS - Continued

Incorrect modification of vehicle frame and/or body could contribute to serious mechanical failure of the vehicle. Serious injury to operator, motorists, and bystanders could result. Installer is responsible for ensuring vehicle body and frame modification do not adversely affect the integrity of the body and frame. If unsure about modifying vehicle, installer should consult truck/trailer body manufacturer.

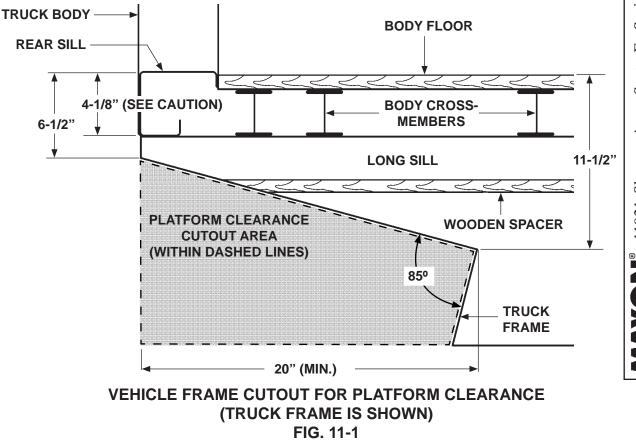
CAUTION

To prevent aluminum platform from being damaged, make sure vehicle frame is cut correctly and rear sills are modified if over 4-1/8" in height. If the cutouts are incorrect, platform may hit vehicle frame or underbody when stowing Liftgate. If rear sill is over 4-1/8" in height, bottom of the platform may hit the sill. See the next page for interference areas that can result from rear sills over 4" in height.

NOTE: Dimensions, shown in illustration below, are maximums except as indicated.

NOTE: The platform cutout area shown below applies to trucks and trailers.

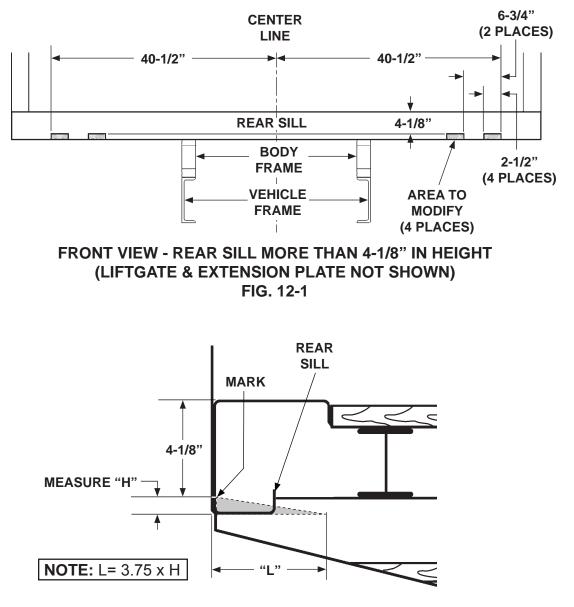
2. Fit the Liftgate to vehicle body by cutting vehicle frame as shown in FIG. 11-1.



VEHICLE REQUIREMENTS - Continued

Incorrect modification of vehicle frame and/or body could contribute to serious mechanical failure of the vehicle. Serious injury to operator, motorists, and bystanders could result. Installer is responsible for ensuring vehicle body and frame modification do not adversely affect the integrity of the body and frame. If unsure about modifying vehicle, installer should consult truck/trailer body manufacturer.

3. If the rear sill is over 4-1/8" in height, measure and mark the areas to be modified on the sill as shown in **FIG. 12-1**. A side view of the interference areas is shown in **FIG. 12-2**.





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CENTER OF MASS

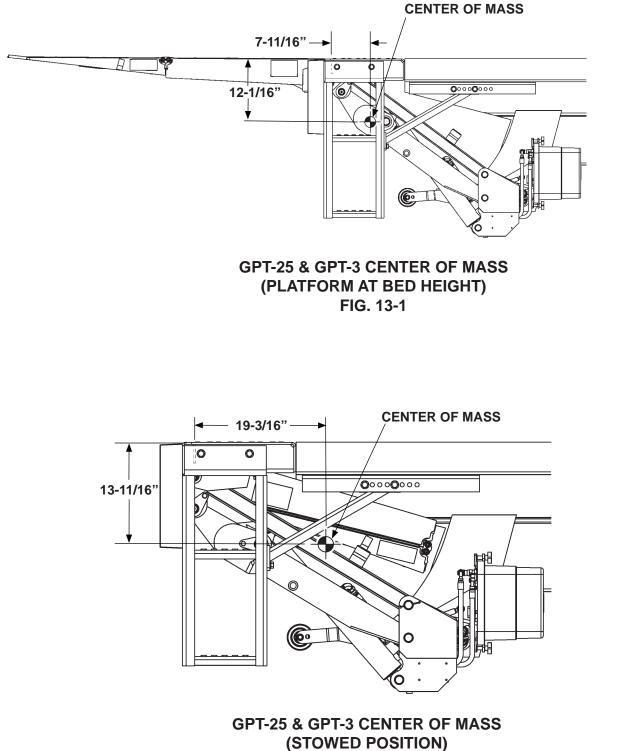
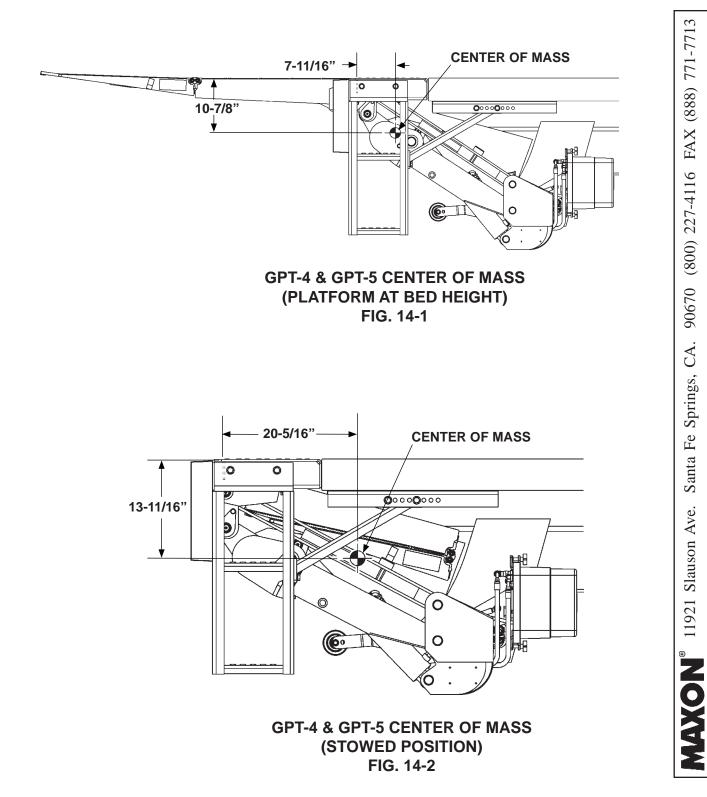


FIG. 13-2

CENTER OF MASS - Continued

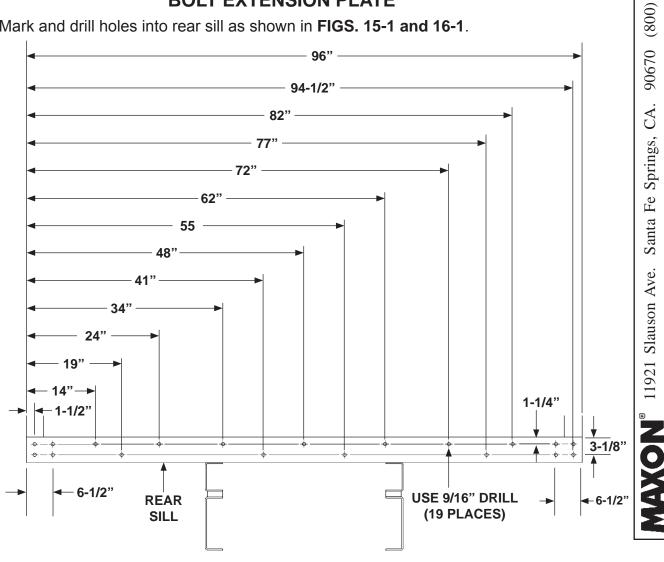


STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE

CAUTION

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

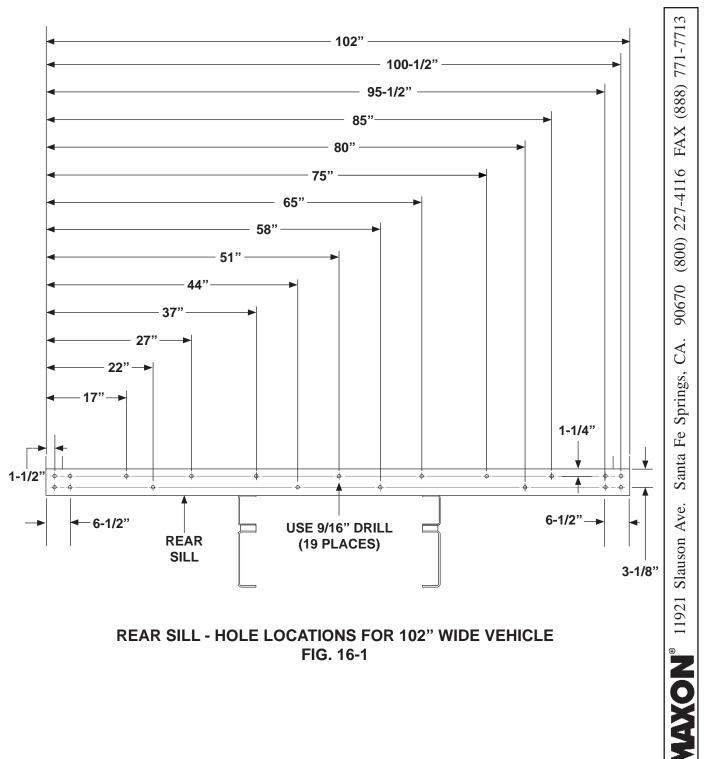
NOTE: GPT Liftgate extension plate comes with bolt holes so it can be bolted to vehicle body with optional bolt kit. GRADE 8 bolts are required. MAXON recommends getting the optional extension plate hardware kit listed in **OPTIONS** section. Vehicle body must be drilled according to instructions. Extension 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. 15-1 and 16-1.

REAR SILL - HOLE LOCATIONS FOR 96" WIDE VEHICLE FIG. 15-1



REAR SILL - HOLE LOCATIONS FOR 102" WIDE VEHICLE FIG. 16-1

CAUTION

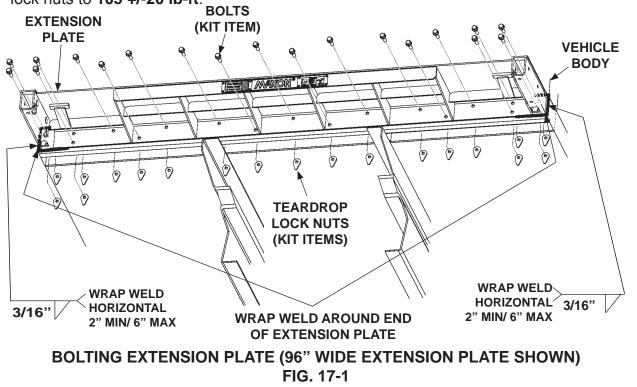
The mating surface between the bolt-on extension plate and vehicle rear sill must be as flat as possible. Interference between the mating surfaces could result in a distorted top surface of extension plate when all the bolts are tightened. Distorted extension plate can also make the dual steps difficult 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. 17-1** 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. 17-1**. 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**.



NOTE: An optional 102" wide extension kit is available for 102" wide vehicles. Refer to Instruction Sheet M-09-06 supplied with kit.

WELD EXTENSION PLATE (ALTERNATE METHOD)

CAUTION

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

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.

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.

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CA.

Santa Fe Springs,

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• Top surface of extension plate is level with the ground.

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

 Center the extension plate on vehicle body. Weld the extension plate to vehicle body sill as shown in FIGS. 18-1 and 19-1.

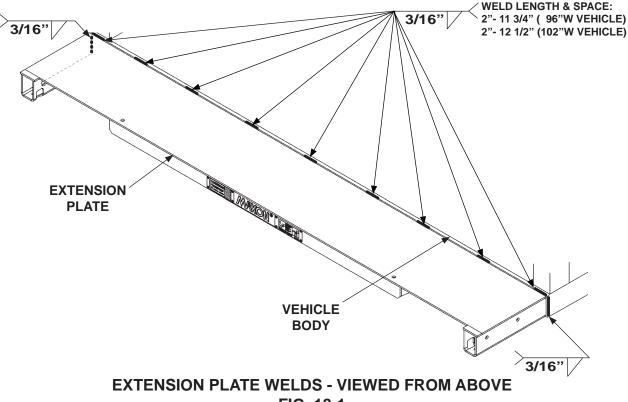
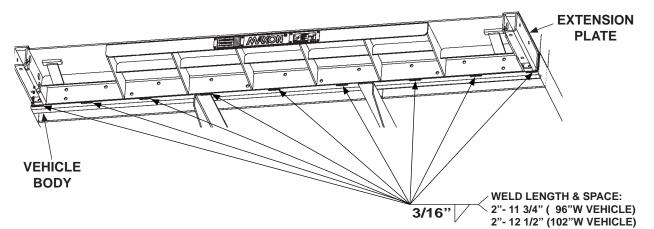


FIG. 18-1

18



EXTENSION PLATE WELDS - VIEWED FROM UNDERNEATH FIG. 19-1

- **NOTE:** During installation of liftgate, installation brackets keep the heel of the platform level with extension plate and maintain a ³/₄" 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. 19-2**. Tighten hex nuts securely.

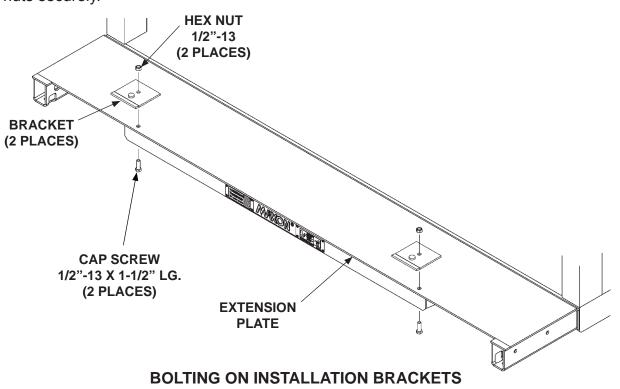
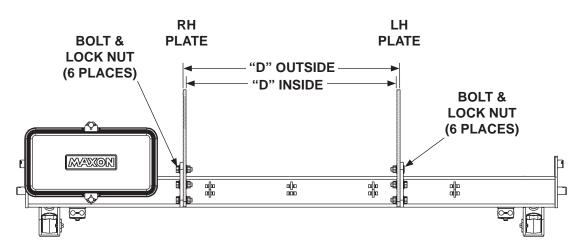


FIG. 19-2

STEP 2 - WELD LIFTGATE TO VEHICLE

NOTE: GPT 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. 20-1), torque mounting plate nuts and bolts 220-240 lb-ft (GPT-25/GPT-3) or 350-375 lb-ft (GPT-4/GPT-5).



BOLT ON MOUNTING PLATES FOR INSTALLATION ON TRUCKS &TRAILERS (REAR VIEW OF LIFTGATE) FIG. 20-1

LIFTGATE MODEL	"D" INSIDE	"D" OUTSIDE	APPLICATION
	34-1/4"	35-1/4"	Common truck chassis width
GPT-25/GPT-3	32-1/4"	33-1/4"	Trailer applications
	34-7/8"	35-13/16"	Trailer applications (91 cm)

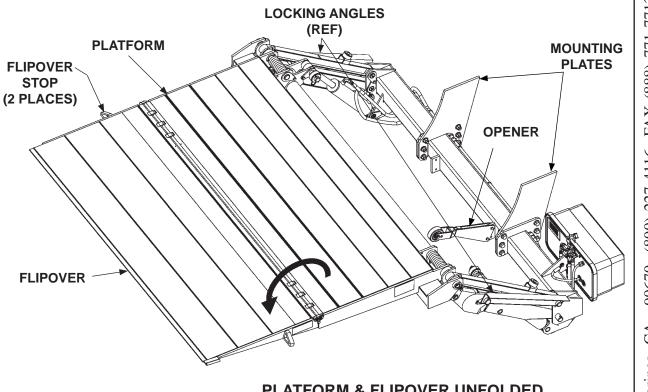
TABLE 20-1

LIFTGATE MODEL	"D" INSIDE	"D" OUTSIDE	APPLICATION
	34-1/4"	35-1/4"	Common truck chassis width
GPT-4/GPT-5	34-7/8"	35-13/16"	Trailer applications (91 cm)
	39"	40"	Trailer applications

TABLE 20-2

STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

1. Unfold the platform and flipover (FIG. 21-1).



PLATFORM & FLIPOVER UNFOLDED FIG. 21-1

2. Unbolt opener from mounting bracket (shipping position) and save to reinstall (FIG. 21-1).

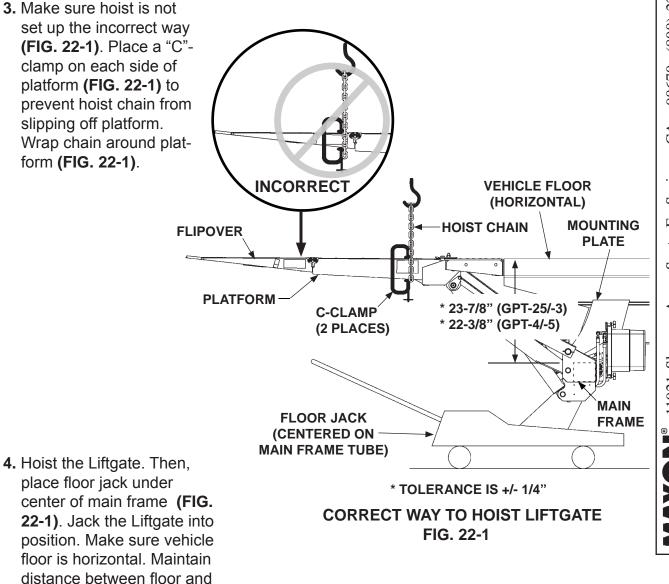
STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

ACAUTION

To prevent damage to aluminum flipover, NEVER hoist the Liftgate by the flipover as illustrated below. Hoist the Liftgate by the platform only as shown in the illustration below.

CAUTION

Correct floor clearance must be maintained when Liftgate is in position and being welded. 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.



top of main frame as shown

in FIG. 22-1.

STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

CAUTION

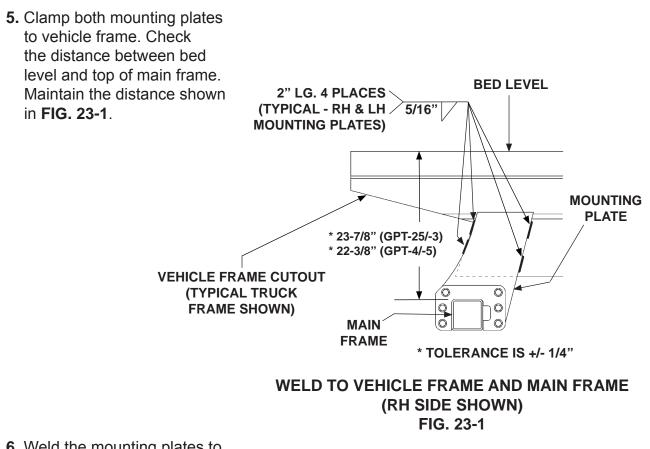
Prevent damage to hydraulic hoses. If welding next to hydraulic hoses, use a protective cover such as a welding blanket to cover the hoses.

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.

CAUTION

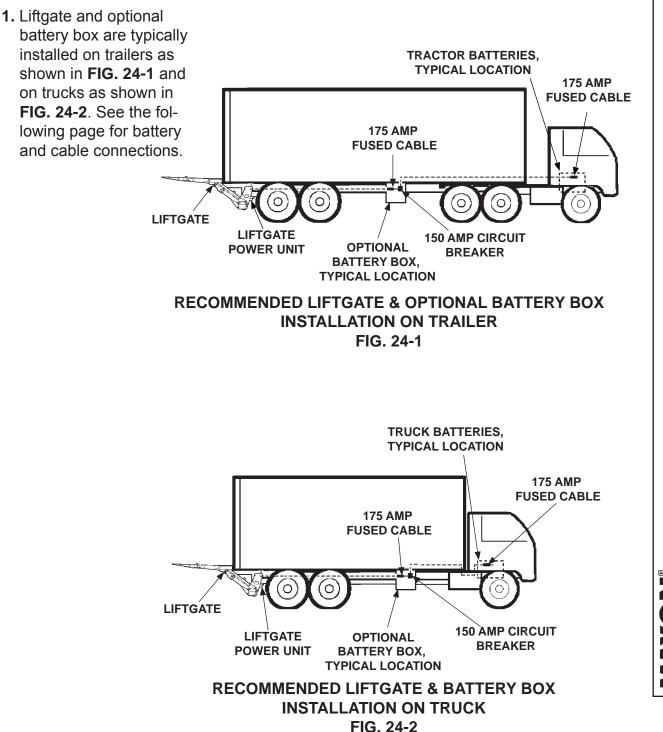
When using an electric welder, connect the welder ground to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts.

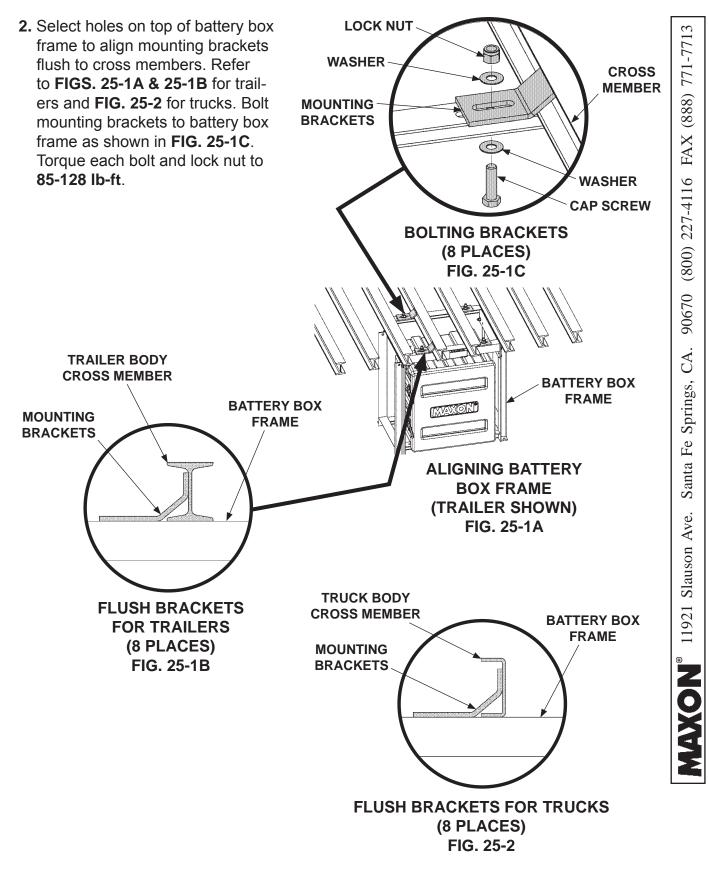


 Weld the mounting plates to vehicle frame as shown in FIG. 23-1. Remove clamps.

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.





NOTE: If welding mounting brackets to cross members, skip instruction **3**.

90670 (800) 227-4116 FAX (888) 771-7713 3. Using mounting brackets as a tem-CROSS plate mark and drill holes through MEMBER cross members (FIG. 26-1). Bolt mounting brackets to cross members as shown in FIGS. 26-2A and MOUNTING 26-2B. Torque bolts and lock nuts BRACKETS to 85-128 lb-ft. 1/2" HOLES MARK AND DRILL BRACKET HOLES FIG. 26-1 WASHERS (4 PLACES) Santa Fe Springs, CA. LOCK NUTS (2 PLACES) `@@[@]@ CROSS Ors MEMBER MOUNTING **CAP SCREWS** BRACKETS (2 PLACES) MAXON[®] 11921 Slauson Ave. **BOLTING BRACKETS** (8 PLACES) FIG. 26-2B CROSS MEMBERS **BOLTING BATTERY BOX FRAME**

FIG. 26-2A

A 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.

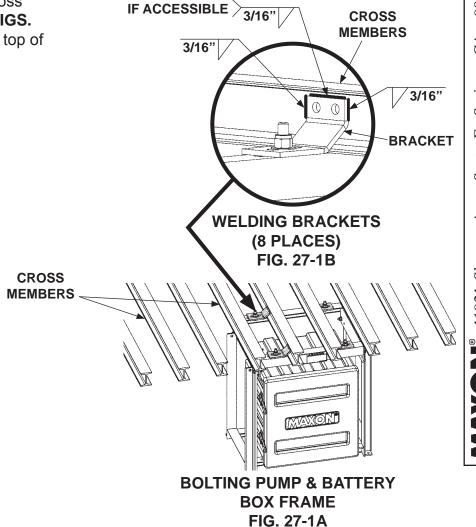
CAUTION

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.

4. Weld each bracket to cross members as shown in FIGS.
27-1A and 27-1B. Weld top of bracket if accessible.



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

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

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

5. Connect battery cables, fused cables, and ground cables for 12 volt power as shown in FIG. 28-1 or 24 volt power as shown in FIG. 29-1.

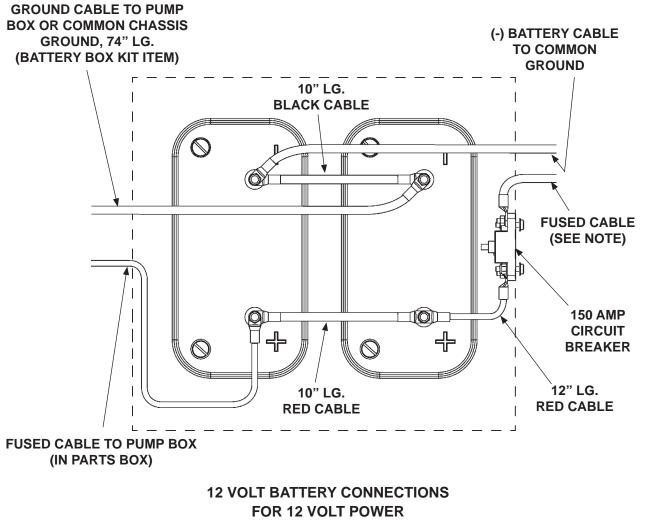
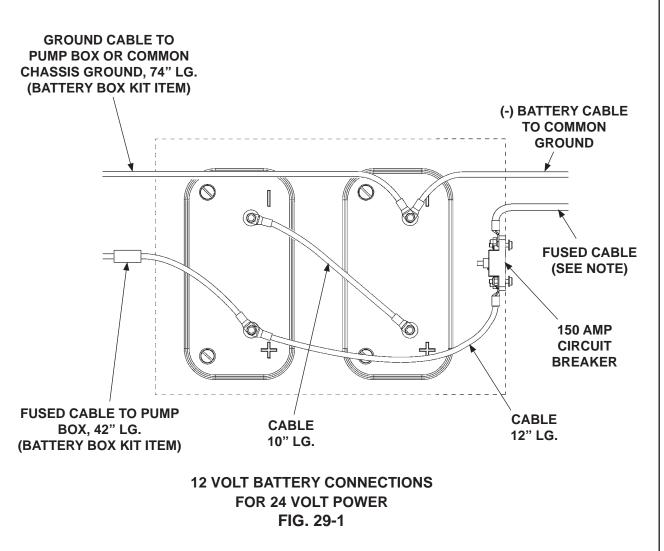


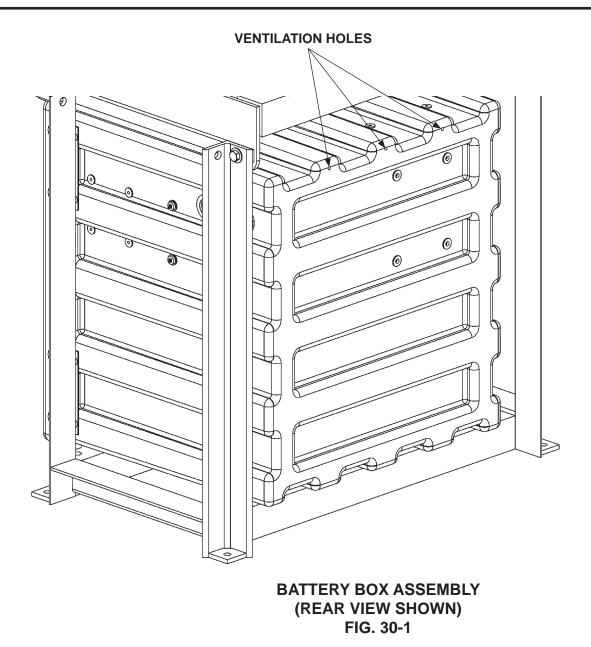
FIG. 28-1



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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.



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STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued BATTERY BOX ASSEMBLY (800) 227-4116 FAX (888) 771-7713 LOCK NUT, 1/4"-20 **175 AMP FUSED** (2 PLACES) FLAT WASHER CABLE TO PAN HEAD SCREW **CHARGE LINE FROM** 1/4" PUMP BOX 1/4"-20 X 1" LG. VEHICLE BATTERY (4 PLACES) (2 PLACES) **GROUND CABLE** TO PUMP BOX **150 AMP CIRCUIT** BREAKER 90670 **HEX NUT** CA. 5/16"-18, GR8 **CAP SCREW** (3 PLACES) 1/2"-20 X 2 1/4" LG. GR8 Santa Fe Springs, (4 PLACES) 0 FLAT WASHER 5/16" (3 PLACES) C 6 11921 Slauson Ave. J-BOLT BATTERY œ **TIE DOWN** B BATTERY **STRAP** BATTERY PLATE **J-BOLT ANCHOR FLAT WASHER MAXON** LOCK WASHER (PART OF 9/16" 9/16" **BATTERY PLATE)** (4 PLACES) (4 PLACES) HEX NUT 1/2"-20 (4 PLACES)

FIG. 31-1

STEP 4 - RUN POWER CABLE

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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.

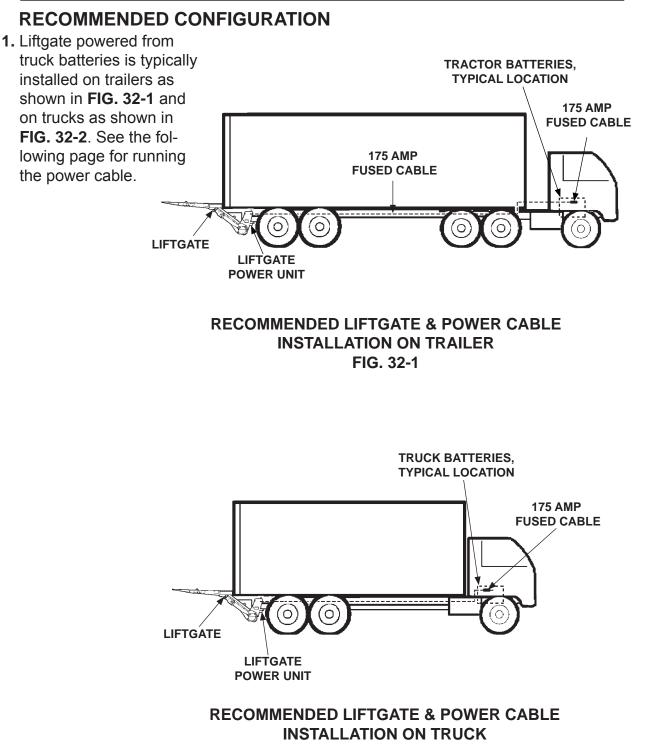


FIG. 32-2

STEP 4 - RUN POWER CABLE - Continued

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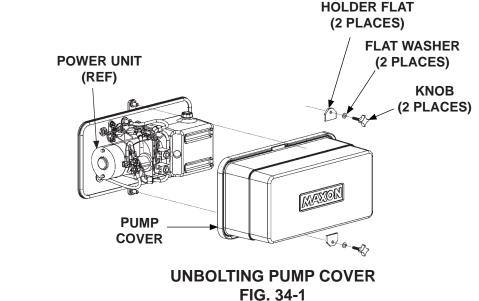
Never route an energized wire. Make sure the vehicle battery is disconnected. Always route electrical wires clear of moving parts, brake lines, sharp edges and exhaust systems. Avoid making sharp bends in wiring. Attach securely. If drilling is necessary, first check behind the drilling surface so you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

2. Clip fused power cable to vehicle chassis with fuse nearest the vehicle battery, as shown in **FIG. 33-1**. Keep enough cable near the battery to reach the positive terminal without straining cable (after connection). Run cable to pump box on Liftgate. **VEHICLE FRAME** (TRUCK FRAME SHOWN) CHARGE LINE (TO PUMP BOX) CABI F CLIPS 18" - 24" SPACING **175 AMP FUSE** FRONT OF VEHICLE SHORTEST **REAR OF VEHICLE** CABLE END **TERMINAL LUG** (TO VEHICLE BATTERY)



STEP 5 - CONNECT POWER CABLE

1. Unbolt and remove pump cover (FIG. 34-1).



2. On the bare wire end of fused power cable, keep enough length to attach copper terminal lug and reach motor solenoid switch without putting tension on cable (after connection) (FIG. 34-2A). Measure (if needed), and then cut excess cable from bare wire end of cable. Put heat shrink tubing (parts bag item) (FIG. 34-2B) on the end of the cable and leave room for terminal lug. Crimp copper terminal lug (parts bag item) on the fused power cable and shrink the heat shrink tubing (FIG. 34-2C).

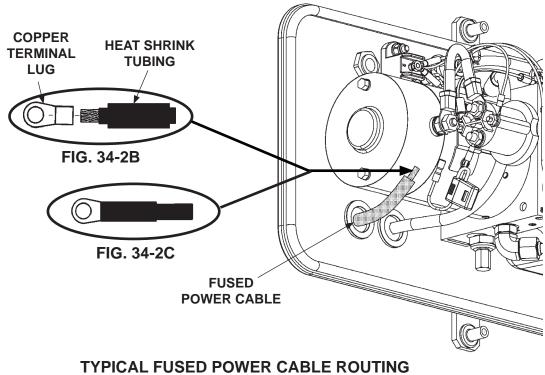


FIG. 34-2A

STEP 5 - CONNECT POWER CABLE - Continued

CAUTION

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

NOTE: Do not remove flat washer from the battery power terminal.

 Remove hex nut and lock washer from battery power terminal on the solenoid switch. Remove fuse holder assembly. Connect the power cable and fuse holder assembly to the solenoid switch as shown in FIG. 35-1. Reinstall and tighten lock washer and hex nut.

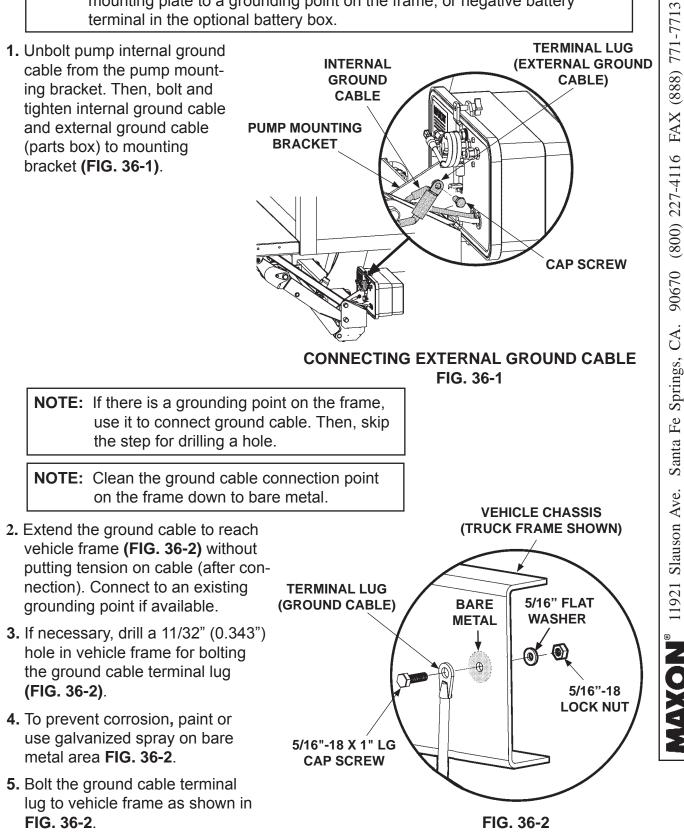
HEX NUT LOCK onnect e holder d switch Reinstall and hex FUSE HOLDER ASSEMBLY (10 AMP) FUSED POWER CABLE

TYPICAL FUSED POWER CABLE ELECTRICAL CONNECTION FIG. 35-1

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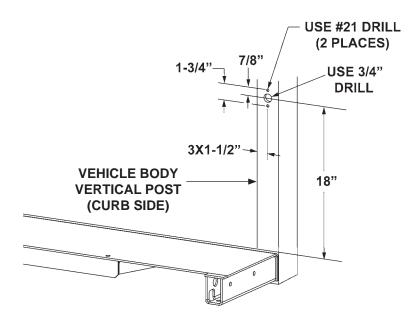
STEP 6 - CONNECT GROUND CABLE (RECOMMENDED)

NOTE: To ensure power unit is correctly grounded, MAXON recommends connecting 2 gauge ground cable from grounding connection on pump mounting plate to a grounding point on the frame, or negative battery terminal in the optional battery box.



STEP 7 - INSTALL CONTROL SWITCH

1. Drill one 3/4" hole and two #21–size holes in the vertical post on curb side of vehicle body as shown in **FIG. 37-1**.



DRILLING MOUNTING HOLES FIG. 37-1

STEP 7 - INSTALL CONTROL SWITCH - Continued

- Insert control switch wiring into the 3/4" hole on the corner post and run it under the vehicle body to the pump assembly. (See dashed line
 FIG. 38-1.) Insert switch wiring through cord grip on pump mounting plate (FIG. 38-2). Connect the switch wiring to the pump assembly as shown in (FIG. 38-2).
- Push control switch and cable back into the ³⁄₄" hole in the vertical post until control switch cover touches the post (FIG. 38-1). Attach control switch to vertical post with 2 self-tapping screws (FIG. 38-1).

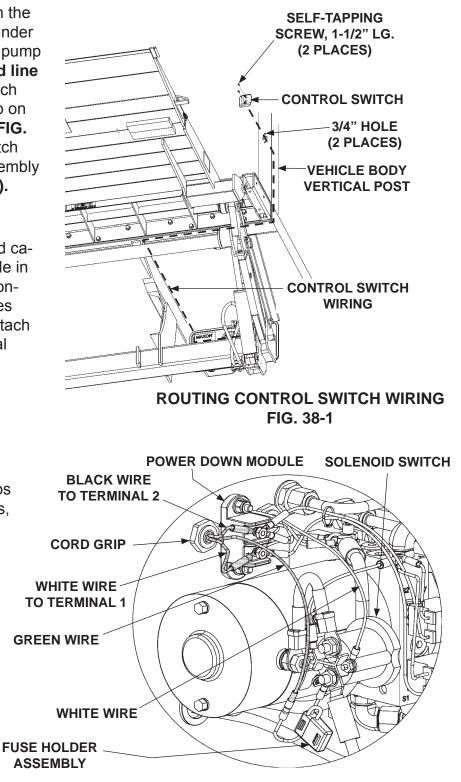
4. If necessary, use clamps

from installation parts

bag, to secure switch cable to vehicle (**FIG.**

38-1).

and self-tapping screws,



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CONTROL SWITCH WIRING CONNECTIONS FIG. 38-2

STEP 8 - CHECKING HYDRAULIC FLUID

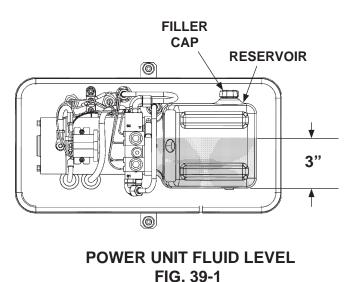
CAUTION

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 40-1 & 40-2 for recommended brands.

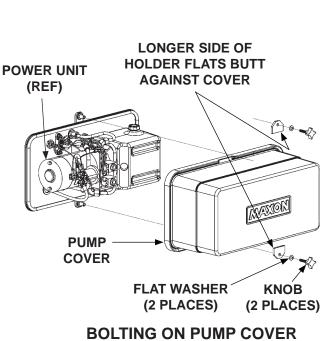
- Check the hydraulic fluid level in reservoir as follows. With Liftgate stowed, or platform at vehicle bed height, level should be as shown in FIG. 39-1.
- If needed, add fluid to the reservoir as follows. Pull out (no threads) filler cap (FIG. 39-1). Fill the reservoir with hydraulic fluid to level shown in (FIG. 39-1). Reinstall filler cap (FIG. 39-1).



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.

 Bolt on the pump cover as shown in FIG. 39-2. Hand tighten the threaded cover knobs.





STEP 8 - CHECKING HYDRAULIC FLUID - Continued

ISO 32 HYDRAULIC OIL		
RECOMMENDED BRANDS	PART NUMBER	
CHEVRON	HIPERSYN 32	
KENDALL	GOLDEN MV	
SHELL	TELLUS S2 VX 32	
EXXON	UNIVIS N-32	
MOBIL	DTE-13M, DTE-24, HYDRAULIC OIL-13	

TABLE 40-1

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

TABLE 40-2

STEP 9 - CONNECT POWER CABLE TO BATTERY

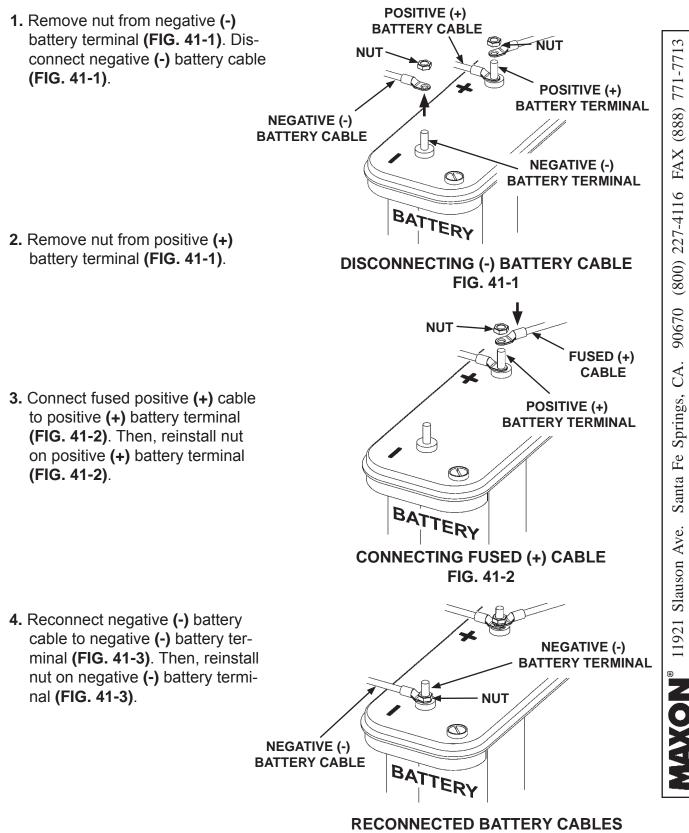


FIG. 41-3

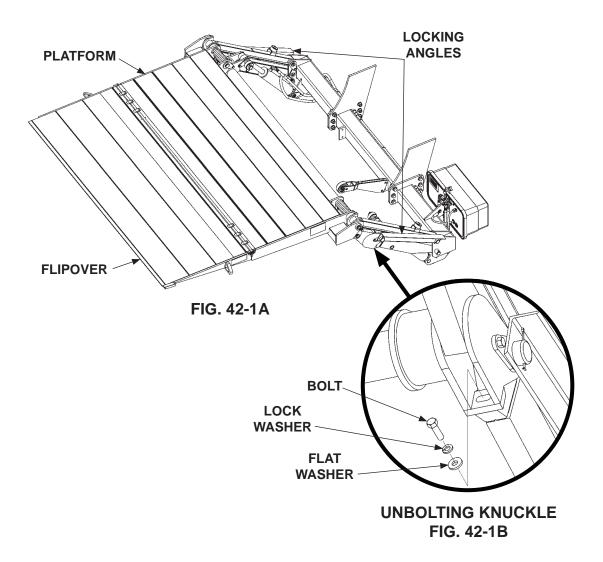
CAUTION

Check for leaking hydraulic fluid as the system is being pressurized. If there is leakage, stop & correct the problem before fully pressurizing the system.

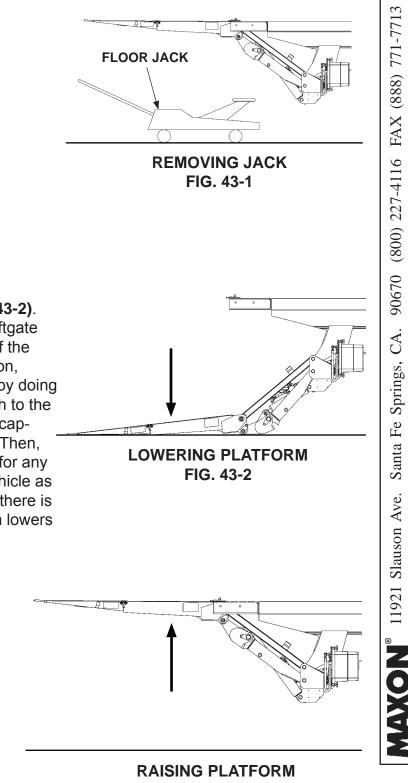
1. Push control switch to **UP** position to pressurize hydraulic system. Listen for hydraulic fluid flowing through the system. Check for fluid leaks. When the sound of flowing fluid stops, release control switch. Hydraulic system is ready.

NOTE: To operate Liftgate, locking angles must be removed from the lift arms and shipping bolt must be removed from both knuckles.

- 2. Remove locking angles from lift arms (FIG. 42-1A).
- 3. With platform open (FIG. 42-1A), unbolt each knuckle as shown in FIG. 42-1B.



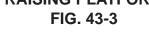
4. Remove floor jack and hoist supporting Liftgate (FIG. 43-1).



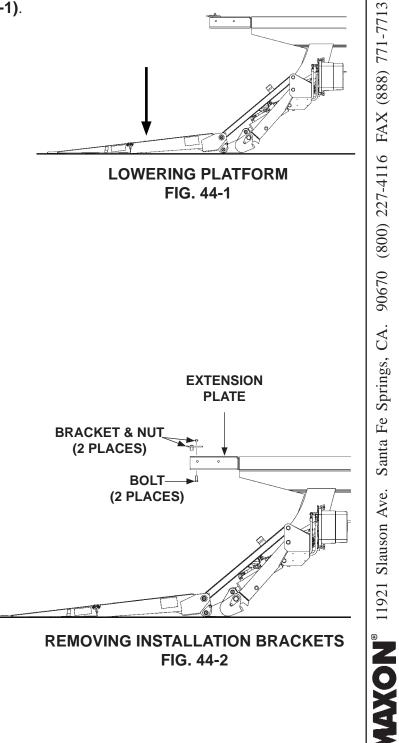
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5. Lower platform to the ground (FIG. 43-2). Look for any interference between liftgate and vehicle as platform is lowered. If the platform lowers with a "jerking" motion, bleed air from the hydraulic system by doing the following. Push the control switch to the DOWN position until you hear air escaping into the hydraulic fluid reservoir. Then, raise the platform (FIG. 43-3). Look for any interference between liftgate and vehicle as platform is raised. Repeat step until there is no air left in the system and platform lowers smoothly (FIG. 43-3).



6. Lower platform to the ground (FIG. 44-1).



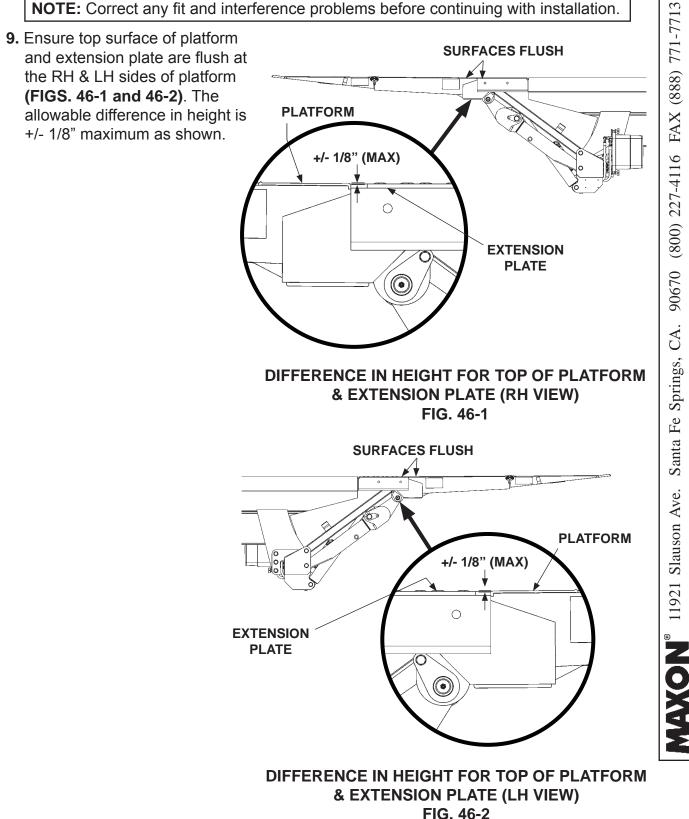
7. Unbolt the 2 installation brackets from extension plate (FIG. 44-2).

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

8. Raise the platform to vehicle floor level (FIG. 45-1). (Refer to GPT-25, GPT-3, GPT-4, GPT-5, GPTWR-25, GPTWR-3, GPTWR-4 & GPTWR-5 OPERATION MANUAL.) Check for 5/8" gap between platform and edge of extension plate (FIG. 45-1).

EXTENSION PLATE CHECKING GAP BETWEEN PLATFORM AND EXTENSION PLATE FIG. 45-1

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



STEP 11 - INSTALL OPENER & LICENSE PLATE BRACKET WITH ICC BUMPER OR UNDERRIDE

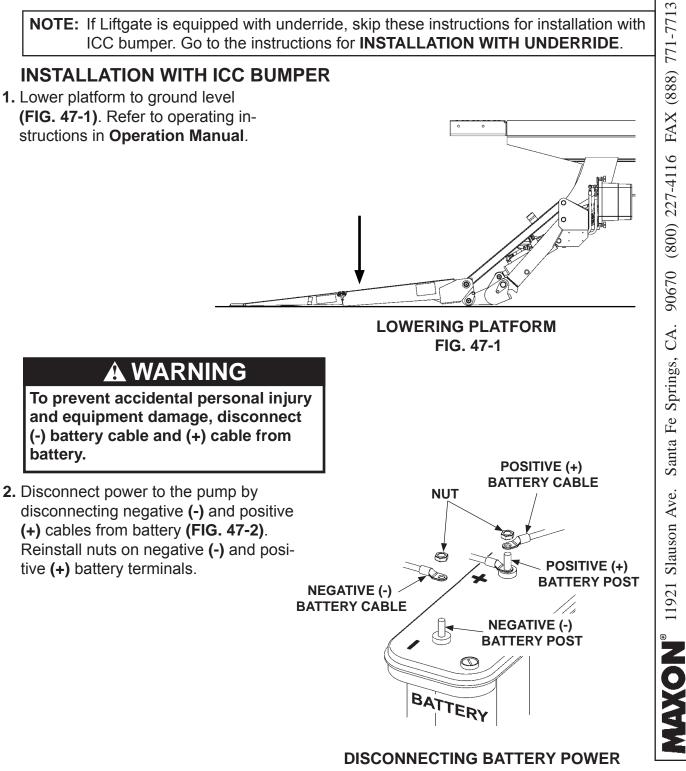
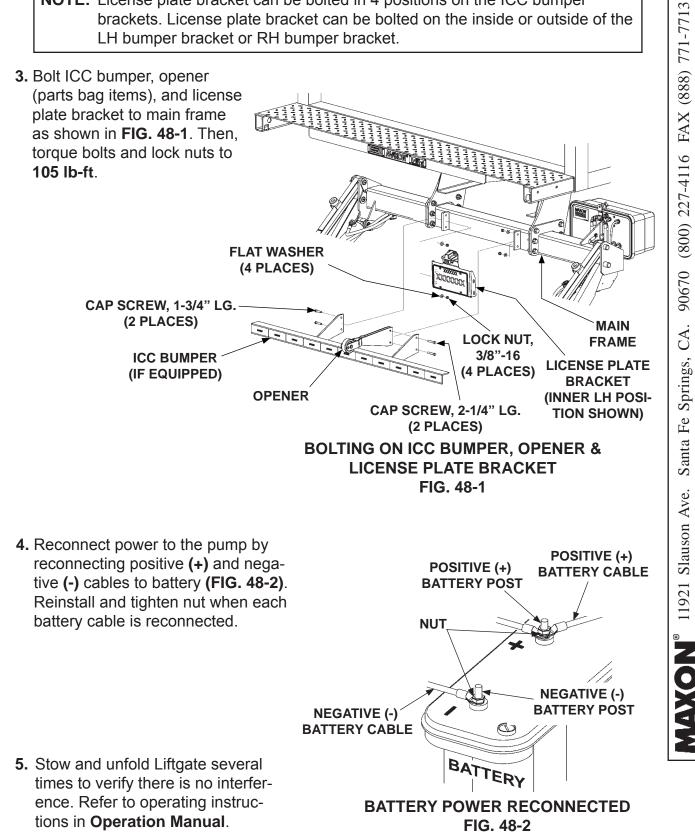


FIG. 47-2

STEP 11 - INSTALL OPENER & LICENSE PLATE BRACKET WITH ICC BUMPER OR UNDERRIDE - Cont'd

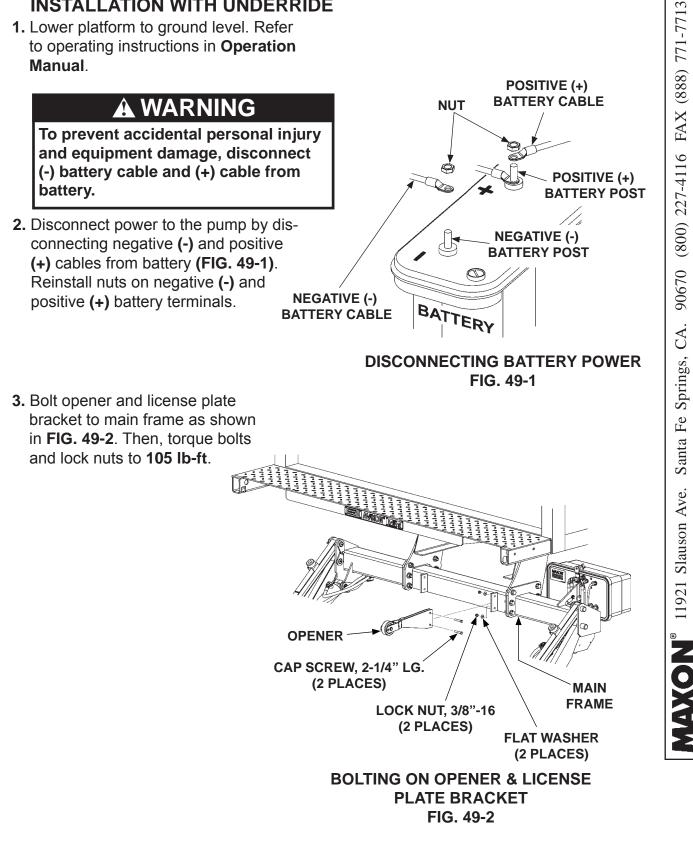
NOTE: License plate bracket can be bolted in 4 positions on the ICC bumper brackets. License plate bracket can be bolted on the inside or outside of the LH bumper bracket or RH bumper bracket.



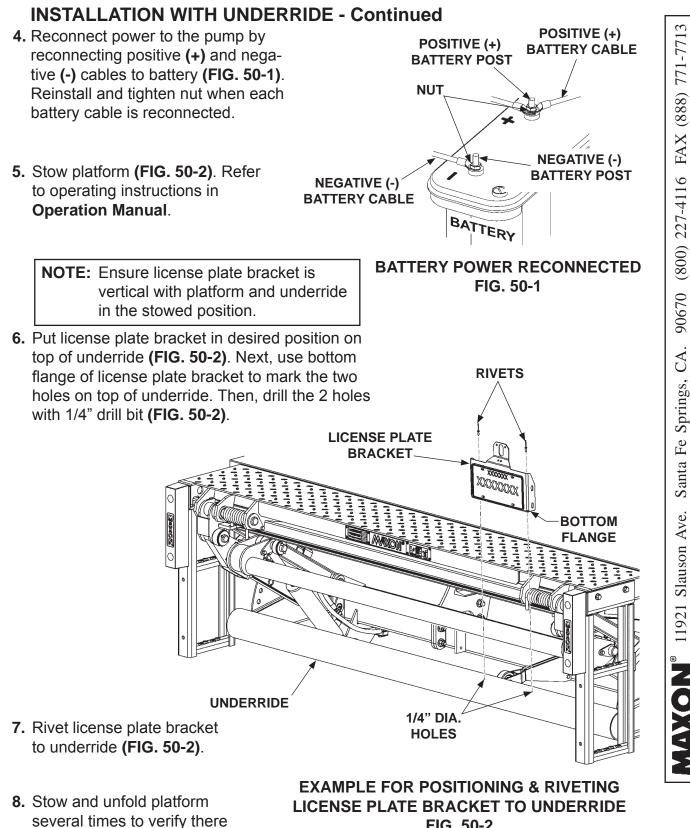
STEP 11 - INSTALL OPENER & LICENSE PLATE BRACKET WITH ICC BUMPER OR UNDERRIDE - Cont'd



1. Lower platform to ground level. Refer to operating instructions in Operation Manual.



STEP 11 - INSTALL OPENER & LICENSE PLATE BRACKET WITH ICC BUMPER OR UNDERRIDE - Cont'd



is no interference.

STEP 12 - ADJUST PLATFORM (IF REQUIRED)

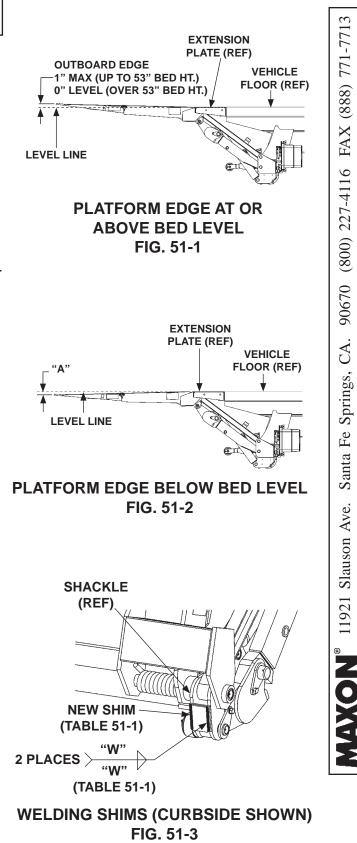
NOTE: Before doing the following procedure, make sure vehicle is parked on level ground.

- Lower platform to the ground. With the platform and flipover unfolded, raise platform to bed level (FIG. 51-1). Measure how much the outboard edge of platform rises above bed level (FIG. 51-1). The outboard edge must be level or a maximum of 1" above bed level (FIG. 51-1). If indication is correct, Liftgate is installed correctly and no adjustment is needed. If the outboard edge is below bed level, do instructions 2, 3, and 6. If outboard edge is higher than 1", do instructions 4 through 6.
- Compare measurement "A" (FIG. 51-2) with the distances and shims in TABLE 51-1. For example: If measurement "A" (FIG. 51-2) is 1" below level and you want to raise outboard edge of platform 1" above level, use 1/8" shim to raise 2" (TABLE 51-1).

RAISE PLATFORM EDGE (OUTBOARD) THIS DISTANCE ("A")	REQUIRED SHIM THICKNESS	WELD SIZE "W"
1"	1/16"	1/16"
2"	1/8"	1/8"
3"	3/16"	3/16"
4"	1/4"	1/4"

TABLE 51-1

3. Weld shims (parts bag item) on both platform stops (FIG. 51-3) to raise outboard edge of platform to correct position.



STEP 12 - ADJUST PLATFORM - Continued

4. Compare measurement "B" (FIG. 52-1) with distances and grinding depths in TABLE 52-1. For example: If measurement "B" (FIG. 52-1) is 3" above bed level and you want to lower the outboard edge of platform to 1" above bed level, grind 1/8" from each platform stop (TABLE 52-1).

LOWER PLATFORM	GRIND METAL
EDGE (OUTBOARD)	FROM PLATFORM
THIS DISTANCE ("B")	STOP
1"	1/16"
2"	1/8"
3"	3/16"
4"	1/4"

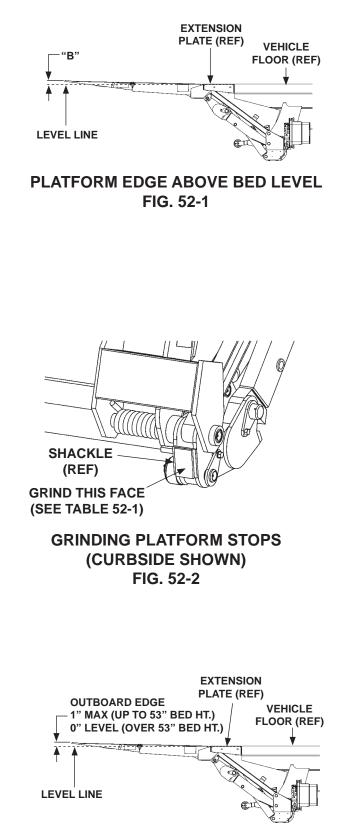
TABLE 52-1

 Grind metal from platform stops (FIG. 52-2) to lower outboard edge of platform to correct position.

6. Lower the platform, then raise it to bed

level. The outboard edge of platform should be level or up to 1" maximum

above bed level (FIG. 52-3).



PLATFORM EDGE ABOVE BED LEVEL FIG. 52-3

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STEP 13 - FINISH WELDING LIFTGATE TO VEHICLE

CAUTION

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

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.

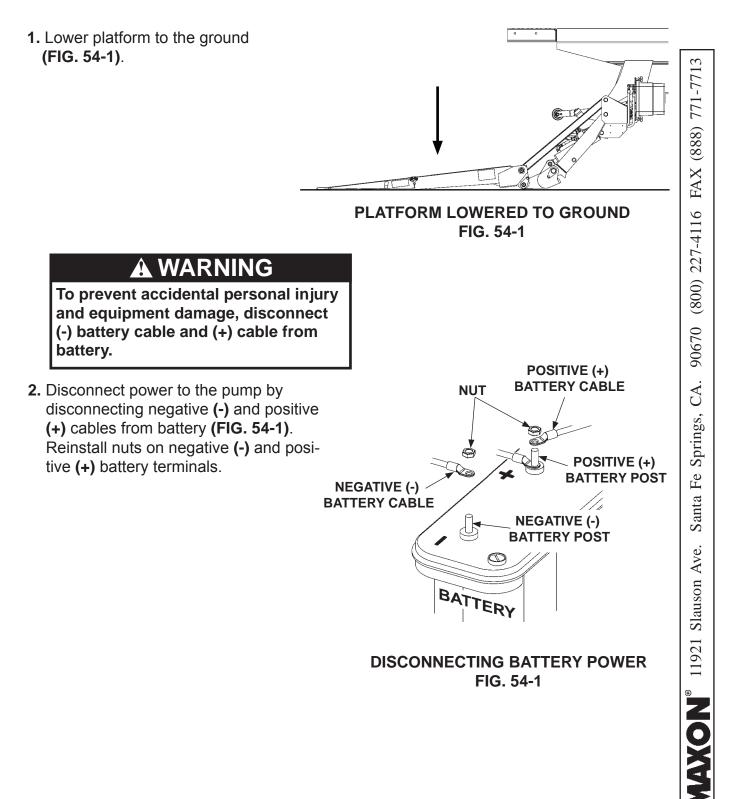
CAUTION

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.

1. Weld each of the two mounting plates to vehicle frame (FIG. 53-1A). TYPICAL **VEHICLE FRAME** 5/16 BOTH **(TYPICAL TRUCK FRAME** MOUNTING SHOWN) PLATES MOUNTING 0 Ò VEHICLE FRAME CUTOUT O 0 PLATE (DASHED LINES) 0 0 WELDING MOUNTING PLATE FIG. 53-1A **FIBERGLASS SLEEVES** 2. After welding is done and mounting plates are cool, remove and discard the 4 fiberglass sleeves shown in FIG. 53-1B. Keep the split looms to protect the hoses. 3 MASSION SPLIT LOOMS FIBERGLASS MOUNTING **SLEEVES** PLATES (REF)

FIG. 53-1B

STEP 14 - BOLT STEPS TO EXTENSION PLATE



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STEP 14 - BOLT STEPS TO EXTENSION PLATE - Cont'd

CAUTION

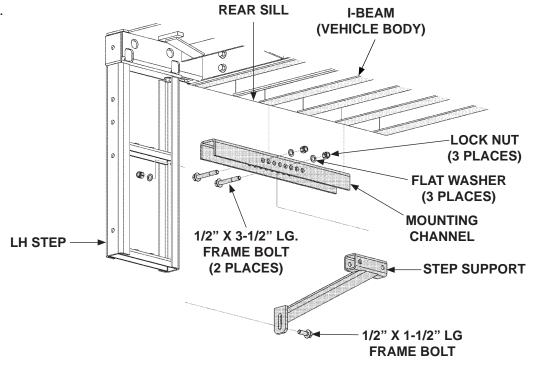
To prevent interference with Liftgate and possible damage, maintain 90° angle between steps and extension plate. Tighten bolts only in the order shown in illustration.

NOTE: If 102" extension kit is to be installed for 102" wide vehicle, install the extension kit before installing the steps. Refer to Instruction Sheet **M-09-06** for installing the extensions.

3. Line up the LH step (Kit item) on LH side of the extension plate. Bolt step to LOCK NUT FLANGE LOCK NUT extension plate (FIG. 55-1). Tighten (2 PLACES) (2 PLACES) bolts 1, 2, 3 and 4 in the numbered PART OF order shown in FIG. 55-1. Then, torque **EXTENSION** PLATE each bolt and lock nut to 105 lb-ft. in ۲ the same order. FLAT WASHER (2 PLACES) ሰ 1/2" X 1-1/2" LG — C FRAME BOLT 3 4 (4 PLACES) 0 1 0 2 90° LH STEP 0 0 **BOLTING STEP TO EXTENSION PLATE** (LH DUAL STEP SHOWN) FIG. 55-1

STEP 14 - BOLT STEPS TO EXTENSION PLATE - Cont'd

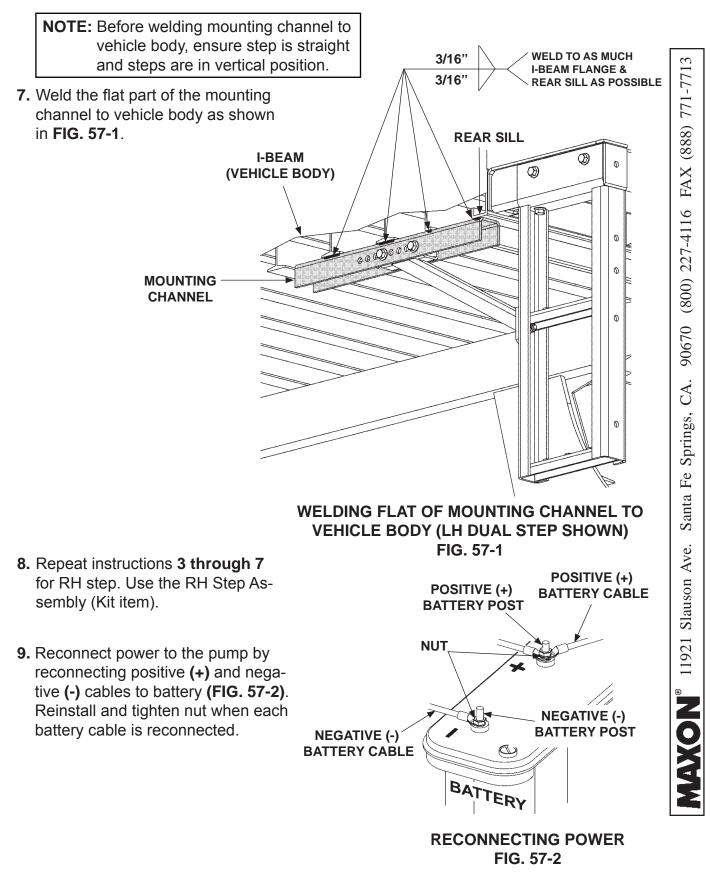
 Bolt the step support (Kit item) to mounting channel (Kit item) (FIG. 56-1).



BOLTING SUPPORT TO MOUNTING CHANNEL & STEP (LH DUAL STEP & SUPPORT SHOWN) FIG. 56-1

- 5. Butt the flat part of the mounting channel against bottom of vehicle rear sill and I-beams. Then, butt the step support against back of the step (FIG. 56-1).
- 6. Ensure slotted hole in the step support is lined up with the hole on the step (FIG. 56-1). Then, bolt the support to step (FIG. 56-1). Torque the lock nuts (FIG. 56-1) to 105 lb-ft force.

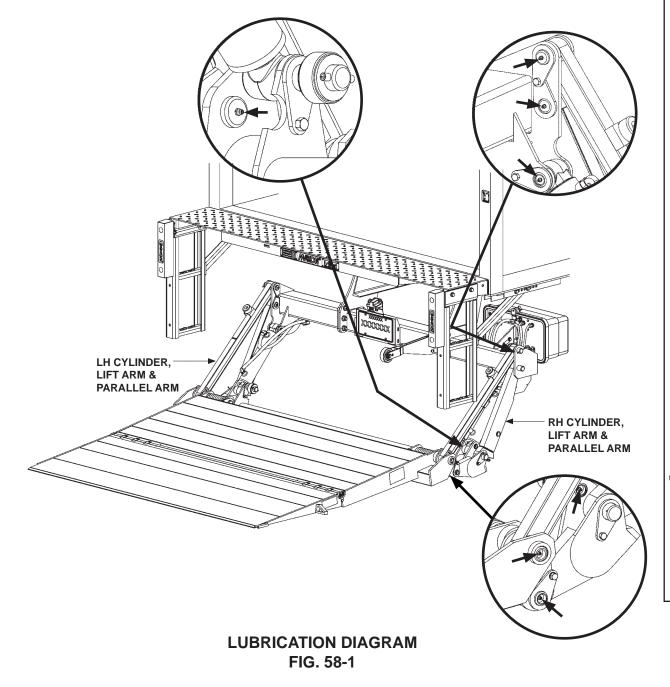
STEP 14 - BOLT STEPS TO EXTENSION PLATE - Cont'd



STEP 15 - LUBE GREASE FITTINGS (AS NEEDED)

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 lubrication diagram **(FIG. 58-1)** to find the lube fittings on cylinders and arms. Pump EP chassis grease in each lube fitting on the cylinders and arms until grease starts oozing from ends of the bearings. Then, wipe off excess grease with a clean lint-free cloth.



APPLY DECALS

NOTE: Ensure there is no residue, dirt or corrosion where decals are attached. If necessary, clean surface before attaching decals.

NOTE: Preferred decal layout is shown. 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.

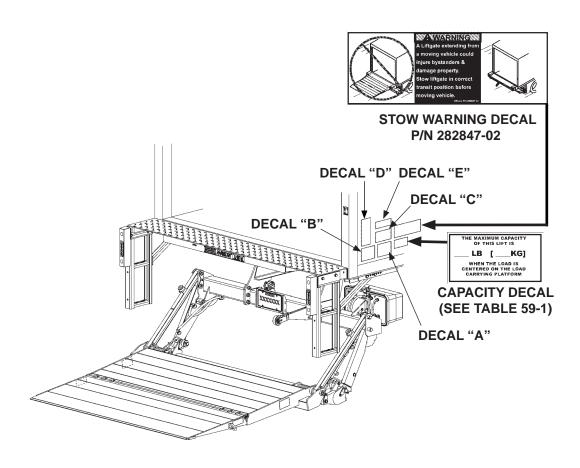
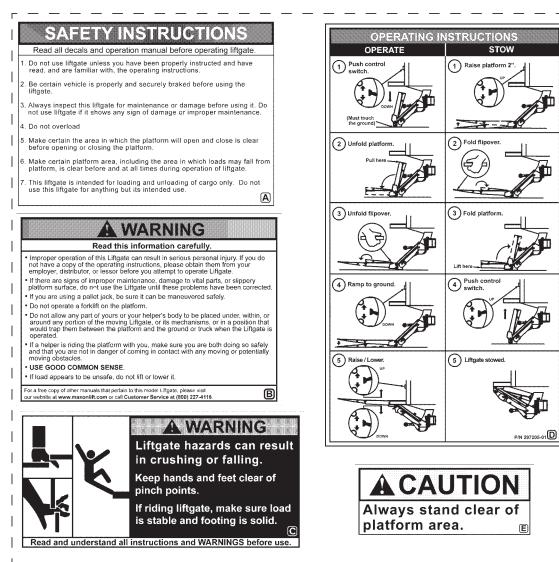


FIG. 59-1

APPLY DECALS - Continued



DECAL SHEET P/N 297205-01 FIG. 60-1

MODEL	DECAL P/N	CAPACITY DECAL
GPT-25	220382	2500 POUNDS
GPT-3	220388	3000 POUNDS
GPT-4	296274-01	4000 POUNDS
GPT-5	296274-02	5000 POUNDS

CAPACITY DECAL TABLE 60-1 1

1

1

DECALS & PLATES

NOTE: Preferred decal layout is shown. Decals on the Liftgate are attached at the factory.

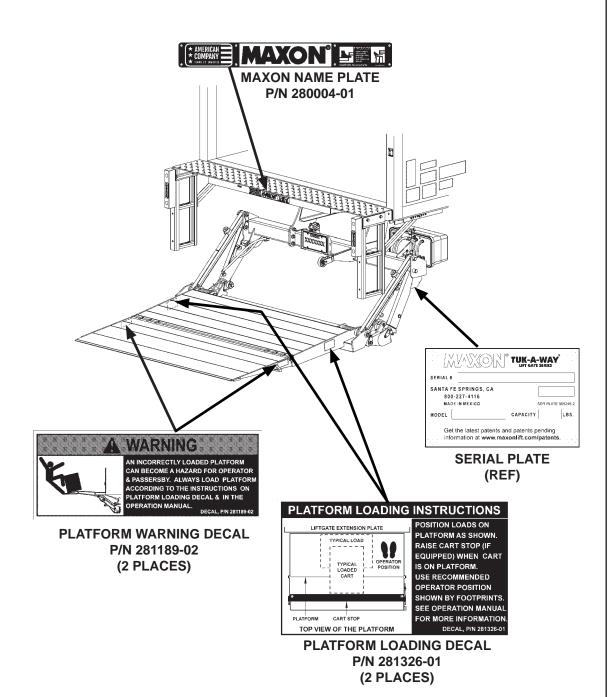


FIG. 61-1

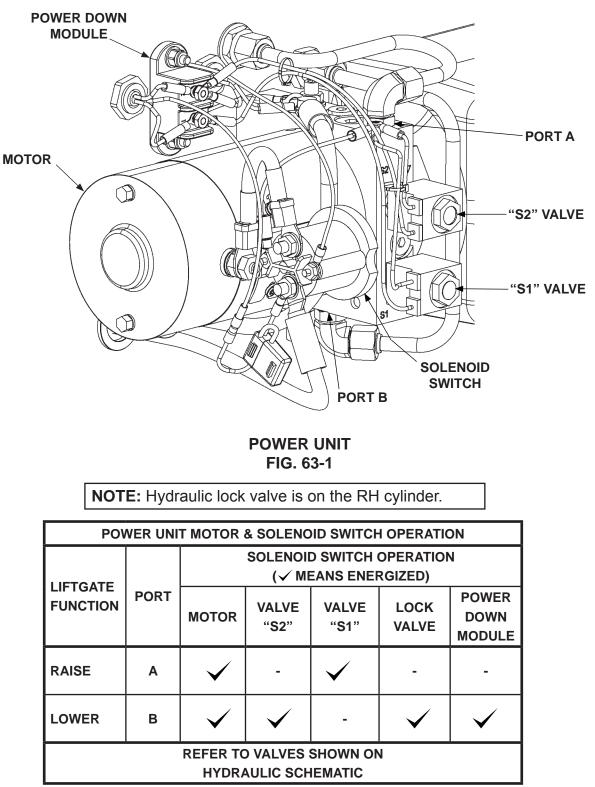
TOUCH-UP PAINTED OR GALVANIZED FINISH

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.

- If bare metal or primer is exposed on the painted portions of the Liftgate, touch up the paint. To maintain the protection provided by the original paint system, **MAXON** recommends aluminum primer touchup paint.
- 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 SWITCH OPERATION**



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TABLE 63-1

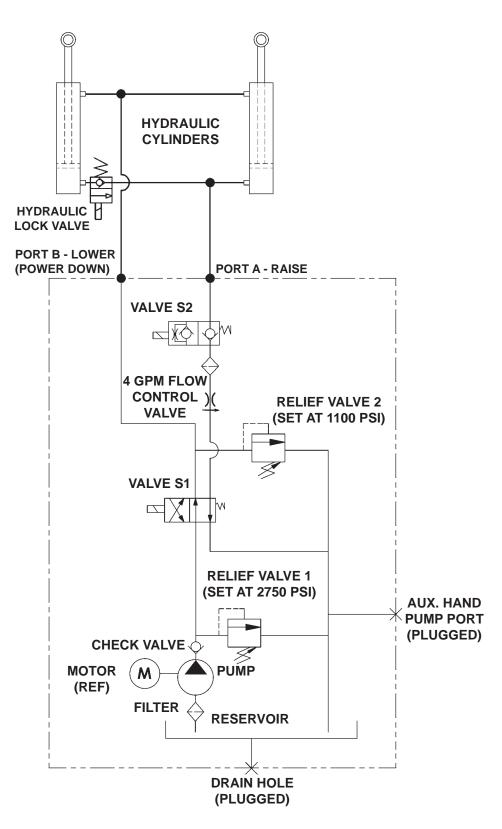
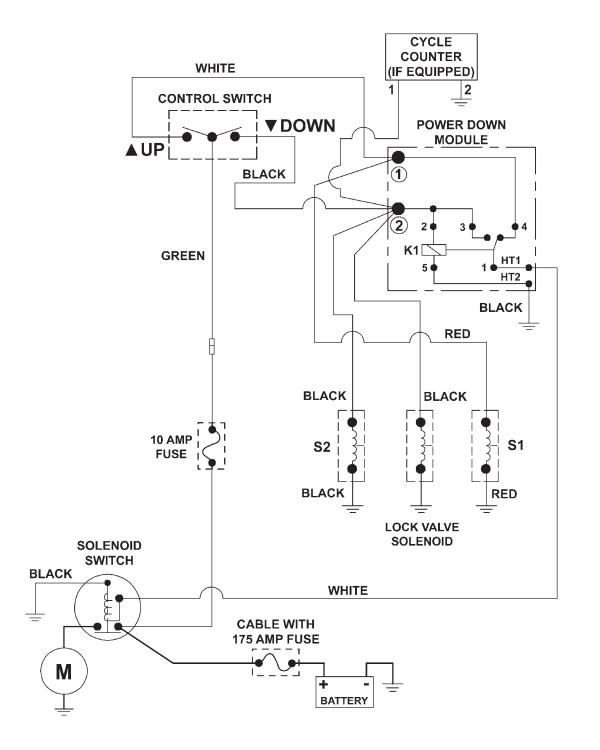


FIG. 64-1

ELECTRICAL SCHEMATIC (POWER DOWN)





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SYSTEM DIAGRAMS GPT ELECTRICAL VALUES

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:	4.0Ω @ 70°F. ±15%	26.7Ω @ 70°F. ±15%
Ampere:	3A, 2.5A @10V	
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:	8.0Ω @ 70°F. ±15%	30Ω @ 70°F. ±15%
Ampere:	1.5A	0.8A
Coil terminal torque: 3-4.5 lb-ft max.		
Valve cartridge torque: 18.5-22 lb-ft max.		
Ground Cable		
Cap Screw Torque: 24 Ib-ft max.		

TABLE 66-1

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OPTIONS OPTIONAL LIFTGATE COMPONENTS

MISCELLANEOUS KITS	PART NO.
FRAMELESS TRAILER BRACKET, MOUNTING (GALVANIZED)	282665-01G
FRAMELESS TRAILER BRACKET, MOUNTING (GALVANIZED) (REFRIGERATOR TRAILERS)	282970-01G
FRAME MOUNTING BRACKET FOR 2 OVAL LIGHTS (GALVANIZED)	282372-01G
FRAME MOUNTING BRACKET FOR 2 OVAL LIGHTS, NO FINISH (HAS RUST PREVENTIVE COAT)	282372-03
HAND PUMP, GPT SERIES	296075-01
TRAFFIC CONES	268893-01
ELECTRICAL KITS	
IN CAB ON-OFF SWITCH	250477
CIRCUIT BREAKER (150 AMP)	251576
HAND HELD CONTROL, TUKS, 120" LG (OUTSIDE VEHICLE)	263260-13
HAND HELD CONTROL, TUKS, 240" LG (OUTSIDE VEHICLE)	263260-14
HAND HELD CONTROL, TUK-A-WAY (INSIDE VEHICLE)	280570-07
STREET SIDE CONTROL, GPT	297116-01
DUAL SWITCH CONTROL, GPT	297115-01
PLATFORM FLASHING LIGHTS, TOP MOUNT, GPT	297611-01
PLATFORM FLASHING LIGHTS, SIDE MOUNT, GPT	297611-02
REAR END PROTECTION KITS FOR TRUCKS AND TRAILERS	
UNDERRIDE, 90", GPT-4 & GPT-5 (GALVANIZED) NOTE: COMPLIES WITH CANADIAN MVS REGULATIONS & FMVSS "REAR IMPACT GUARD" REQUIREMENTS	287050-01G
UNDERRIDE, 95", GPT-4 & GPT-5 (GALVANIZED) NOTE: COMPLIES WITH CANADIAN MVS REGULATIONS & FMVSS "REAR IMPACT GUARD" REQUIREMENTS	287050-02G
UNDERRIDE, 90", GPT-25 & GPT-3 (GALVANIZED) NOTE: COMPLIES WITH FMVSS "REAR IMPACT GUARD" REQUIREMENTS	287050-03G
UNDERRIDE, 95", GPT-25 & GPT-3 (GALVANIZED) NOTE: COMPLIES WITH FMVSS "REAR IMPACT GUARD" REQUIREMENTS	287050-04G
ICC BUMPER (GALVANIZED) NOTE: COMPLIES WITH OMCS REQUIREMENTS	283270-01G
DUAL STEP DOCK BUMPER KITS WITH BUMPERS	
DUAL STEP (GALVANIZED) WITH 14" LG. RUBBER BUMPERS (2.5"W X 3"H X 14"LG)	288705-01G
DUAL STEP (GALVANIZED) WITH 13.5" LG. RUBBER BUMPERS (2.9"W X 1.5"H X 13.5"LG)	288705-02G
DUAL FLEX STEP (GALVANIZED),14" LG. RUBBER BUMPER	288705-21G
DUAL FLEX STEP (GALVANIZED),13.5" LG. RUBBER BUMPER WITH FLEXIBLE WIRE ROPE LOWER STEP & 2.9"W X 1.5"H X 13.5"LG. POLYETHYLENE BUMPERS	288705-22G
DUAL STEP W/LIGHT (GALVANIZED), 14" LG. RUBBER BUMPERS	288705-31G
DUAL STEPS W/LIGHT (GALVANIZED), 13.5" LG. POLYETHYLENE BUMPERS	288705-32G
DUAL STEP (GALVANIZED), CURB SIDE, 14" LG. RUBBER BUMPERS	288705-03G
DUAL STEP (GALVANIZED), CURB SIDE, 13.5" LG. POLYETHYLENE BUMPERS	288705-04G

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OPTIONAL LIFTGATE COMPONENTS - Continued

DUAL STEP DOCK BUMPER KITS WITH BUMPERS - CONTINUED	
DUAL FLEX STEP (GALVANIZED), STREET SIDE, NO STEPS, 14" LG. RUBBER BUMPERS	288705-23G
DUAL FLEX STEP (PAINTED), STREET SIDE, NO STEPS, 13.5" LG. RUBBER BUMPERS	288705-24G
DUAL STEP W/LIGHT, (GALVANIZED) CURB SIDE, 14" LG. RUBBER BUMPERS	288705-33G
DUAL STEP W/LIGHT, (GALVANIZED) CURB SIDE, 13.5" LG. RUBBER BUMPERS	288705-34G
DUAL STEP DOCK BUMPER KITS WITHOUT BUMPERS	
DUAL STEP (GALVANIZED), NO BUMPERS	288705-05G
DUAL STEP (GALVANIZED), STREET SIDE, NO STEPS, NO BUMPERS	288705-06G
DUAL FLEX STEPS (GALVANIZED), NO BUMPERS	288705-25G
DUAL STEP FLEX STEPS (GALVANIZED), STREET SIDE, NO BUMPERS	288705-26G
DUAL STEPS WITH OVAL LIGHT (GALVANIZED), NO BUMPER	288705-35G
DUAL STEP W/LIGHT (GALVANIZED), STREET SIDE, NO STEPS, NO BUMPERS	288705-36G
BUMPER KITS	
PLASTIC 13.5" BUMPER (2.9"W X 1.5"H x 13.5"LG.)	288707-01
RUBBER 14" BUMPER (2.5"W X 3"H X 14"LG.)	288706-01

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