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SUMMARY OF CHANGES: M-17-06 REVISION B

PAGE	DESCRIPTION OF CHANGE		
COVER	Jpdated REV and date of release.		
9	art numbers are updated for manuals and decals kits.		
11,38,45, 59,60,62	Restored toggle switch orientation so toggle points toward curbside of vehicle.		
73	Updated Pre-Delivery Inspection Form.		

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

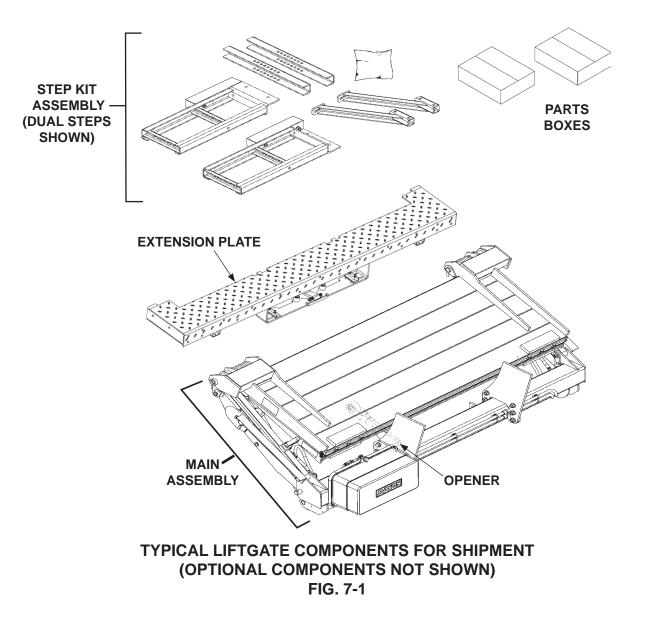
- Maxon Lift is responsible for the instructions to correctly install MAXON Liftgates on trucks or trailers only.
- Liftgate installers, not Maxon Lift, are responsible for reviewing and complying with all applicable Federal, State, and Local regulations pertaining to the trailer or truck.
- Installers 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



GPTWR INSTALLATION PARTS BOX

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	2	801681
4	CABLE ASSEMBLY, 175 AMPS, 38 FT LG.	1	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	2 TOGGLE SWITCH ASSEMBLY		296855-01
3	HEX NUT, 1/2"-13	2	901011-9
4	CAP SCREW, 1/2"-13 X 1-1/2" LG.	2	900035-3
5	INSTALLATION BRACKET	2	269462-01
6	LUG, 2 GAUGE, COPPER, 5/16"	1	906497-02
7	SCREW, SELF TAPPING, #10-24 X 1-1/2" LG	2	900057-7
8	HEAT SHRINK TUBING, 3/4" X 1-1/12" LG.	1	253316-04
9	FLAT, 2-1/2" X 1" X 1/8" THICK	2	201999
10	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

GPTWR-SERIES MANUALS & DECALS

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

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER		
REF	DECAL & MANUAL KIT	1	298125-11 (GPTWR-25)		
			298125-12 (GPTWR-3)		
			298125-13 (GPTWR-4)		
			298125-14 (GPTWR-5)		
1	INSTALLATION MANUAL (GPTWR)	1	M-17-06		
2	OPERATION MANUAL (GPT & GPTWR)	1	M-17-07		
3	DECALS (SEE DECAL PAGES IN THIS MANUAL)	1	(ALL GPTWR'S)		

TABLE 9-1

NOTE: BODY maximum and minimum operating bed height, for GPTWR models with standard platform, are as follows.

Maximum height is 55" (Unloaded). Loaded height is 49". On vehicle bodies equipped with swing-open doors, extension plate and vehicle body must be modified to install this Liftgate.

(800) 227-4116 FAX (888) 771-7713

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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.

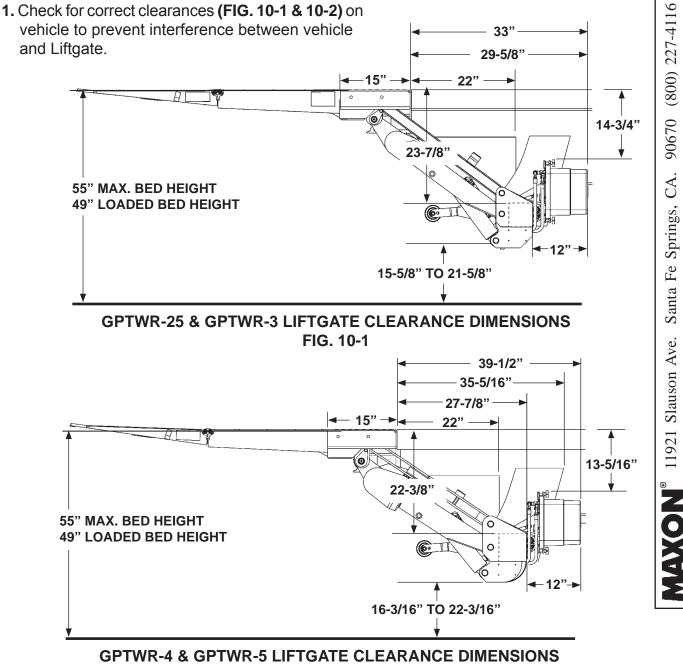
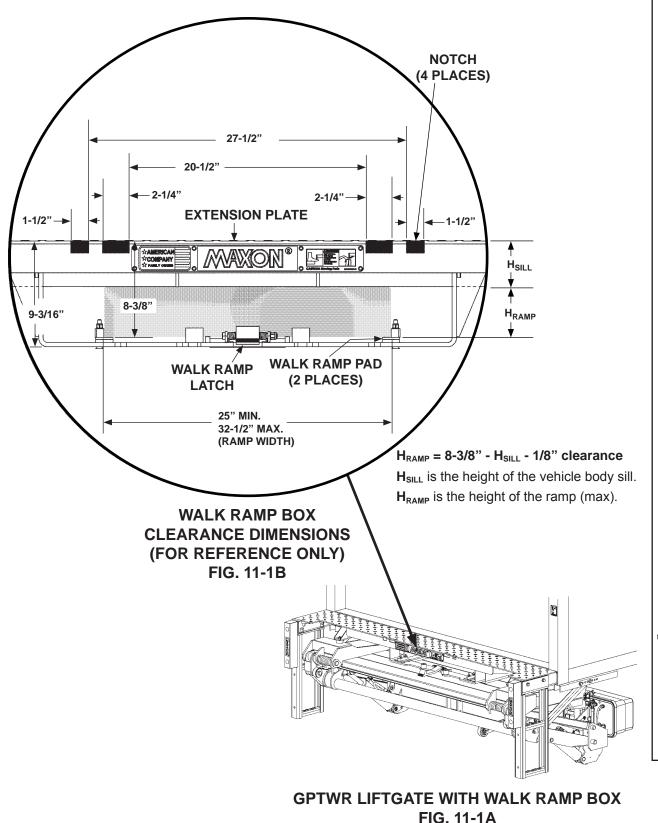


FIG. 10-2

VEHICLE REQUIREMENTS - Continued

2. Check for correct clearances between walk ramp, walk ramp box, and the extension plate (FIGS. 11-1A and 11-1B) to prevent interference.



VEHICLE REQUIREMENTS - Continued

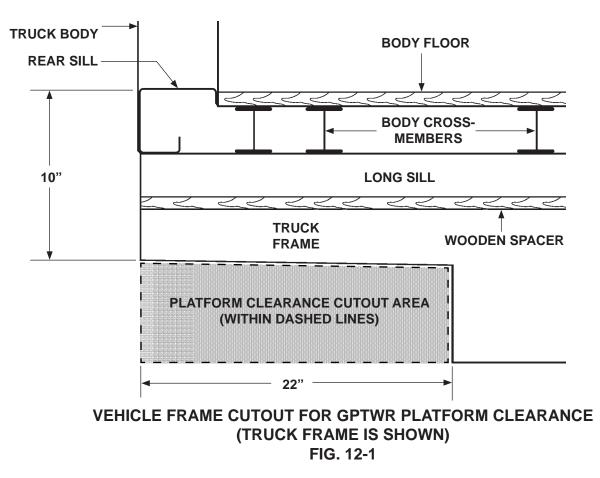
Incorrect modification of vehicle frame and/or body could contribute to serious mechanical failure of the vehicle. Serious injury to operator, motorists, and bystanders could result. Installer is responsible for ensuring vehicle body and frame modification do not adversely affect the integrity of the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

CAUTION

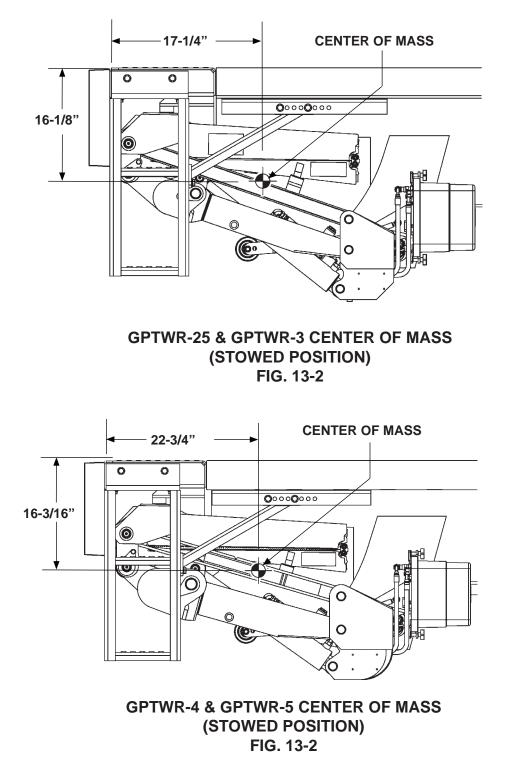
To prevent aluminum platform from being damaged, make sure vehicle frame is cut correctly and rear sills are modified if over 4-1/8" in height. If the cutouts are incorrect, platform may hit vehicle frame or underbody when stowing Liftgate. If rear sill is over 4-1/8" in height, bottom of the platform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

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

- **NOTE:** The platform cutout area for truck frame, shown below, is required to prevent frame interference when platform is being stowed and unstowed. For trailers, refer to instructions supplied with trailer mounting kit for Liftgate.
- 3. Fit the Liftgate to vehicle body by cutting vehicle frame as shown in FIG. 12-1.



CENTER OF MASS



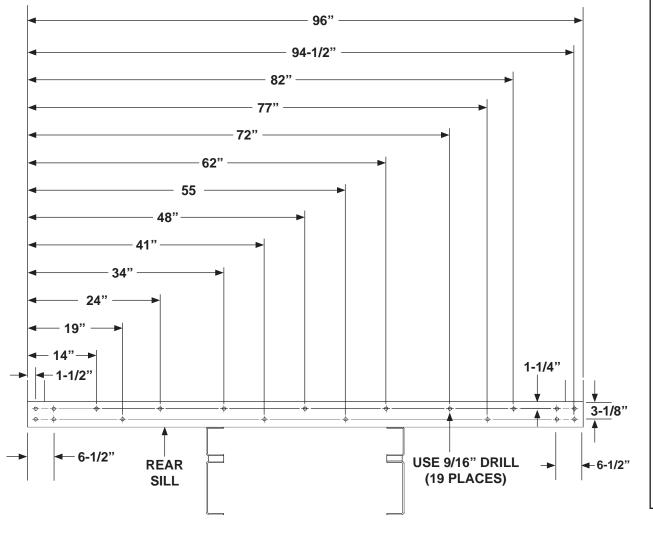
STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE CAUTION

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

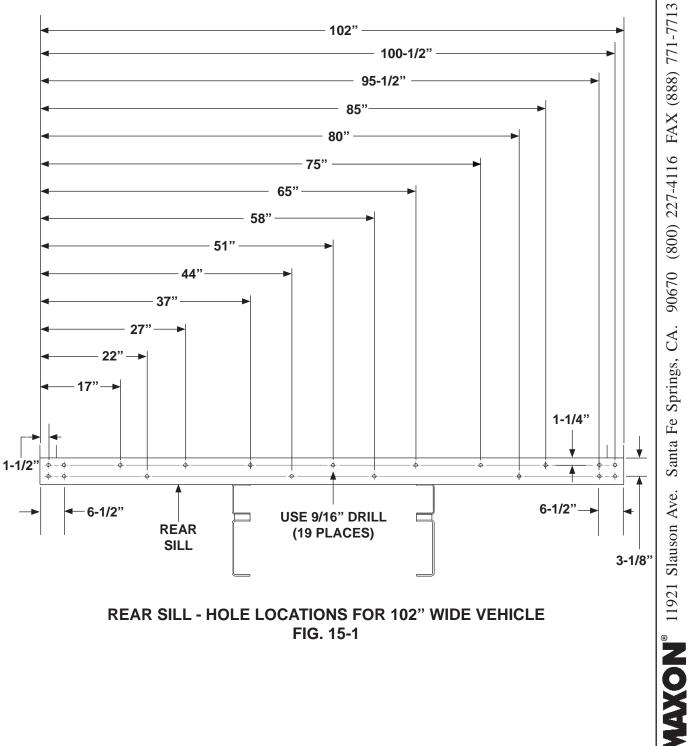
NOTE: GPTWR Liftgate extension plate comes with bolt holes so it can be bolted to vehicle body with optional bolt kit. GRADE 8 bolts are required. MAXON recommends getting the optional extension plate hardware kit listed in OPTIONS section. Vehicle body must be drilled according to instructions. Extension 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. 14-1 and 15-1.



REAR SILL - HOLE LOCATIONS FOR 96" WIDE VEHICLE FIG. 14-1



REAR SILL - HOLE LOCATIONS FOR 102" WIDE VEHICLE FIG. 15-1

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. 16-1** 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
- Bolt extension plate to vehicle as shown in FIG. 16-1. 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.

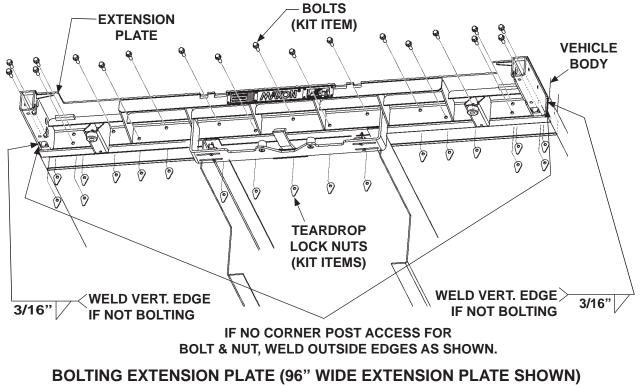


FIG. 16-1

NOTE: An optional 102" wide extension kit is available for 102" wide vehicles.

WELD EXTENSION PLATE (ALTERNATE METHOD)

CAUTION

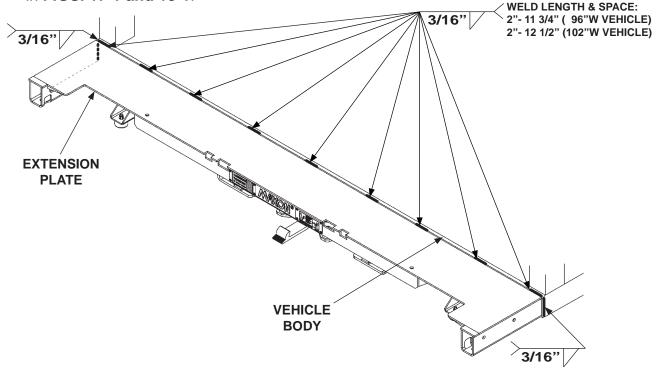
To preserve the corrosion-resistant properties of the galvanized finish, MAXON recommends bolting the galvanized extension plate to vehicle.

CAUTION

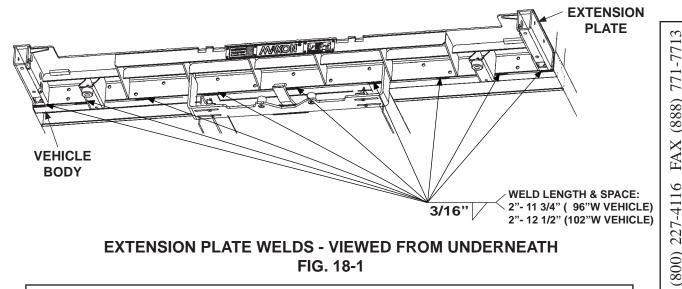
To protect the original paint system if equipped, a 3" wide area of paint must be removed from all sides of the weld area before welding.

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.
- Top surface of extension plate is level with the ground.
- Center the extension plate on vehicle body. Weld the extension plate to vehicle body sill as shown in FIGS. 17-1 and 18-1.



EXTENSION PLATE WELDS - VIEWED FROM ABOVE FIG. 17-1



EXTENSION PLATE WELDS - VIEWED FROM UNDERNEATH FIG. 18-1

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. Make sure dowel is snug against edge of extension plate.

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2. Bolt 2 installation brackets (parts bag items) on the extension plate as shown in FIG. 18-2. Tighten hex nuts securely.

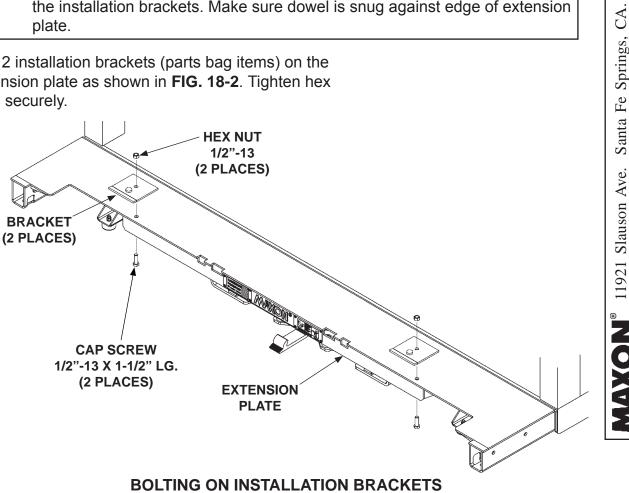
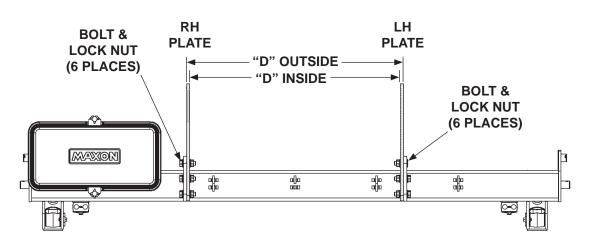


FIG. 18-2

STEP 2 - WELD LIFTGATE TO VEHICLE

NOTE: GPTWR 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 19-1), torque mounting plate nuts and bolts **220-240 lb-ft** (GPTWR-25/GPTWR-3) or **350-375 lb-ft** (GPTWR-4/GPTWR-5).



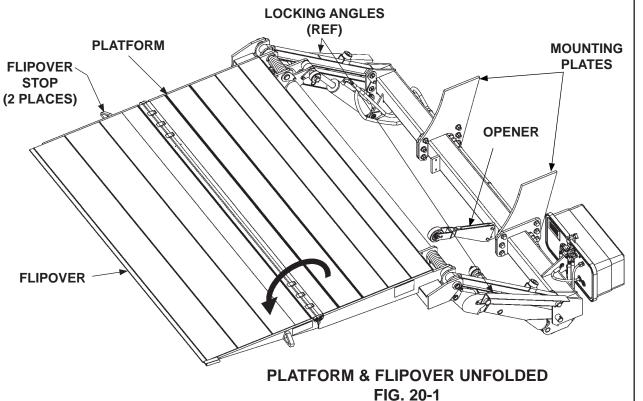
BOLT ON MOUNTING PLATES FOR INSTALLATION ON TRUCKS &TRAILERS (REAR VIEW OF LIFTGATE) FIG. 19-1

LIFTGATE MODEL	"D" INSIDE	"D" OUTSIDE	APPLICATION
ALL GPTWR'S	32-3/4"	33-3/4"	Truck
	34-1/4"	35-1/4"	Common Truck Chassis Width
	32-1/4"	33-1/4"	Trailer applications
	34-3/4"	35-3/4"	Trailer applications (91 cm)

TABLE 19-1

STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

1. Unfold the platform and flipover (FIG. 20-1).



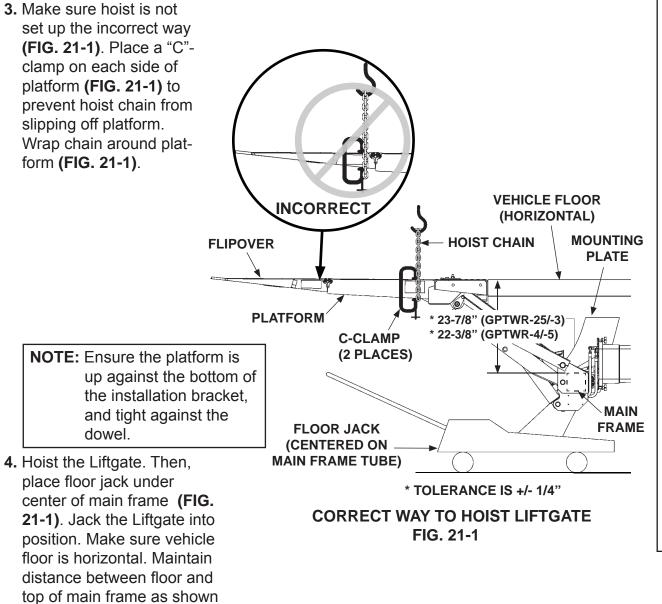
2. Unbolt opener from mounting bracket (shipping position) and save to reinstall (FIG. 20-1).

STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

To prevent damage to aluminum flipover, NEVER hoist the Liftgate by the flipover. Hoist the Liftgate only by the platform. Refer to the illustrations below for the "INCORRECT WAY" and the "CORRECT WAY".

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.



in FIG. 21-1.

STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

CAUTION

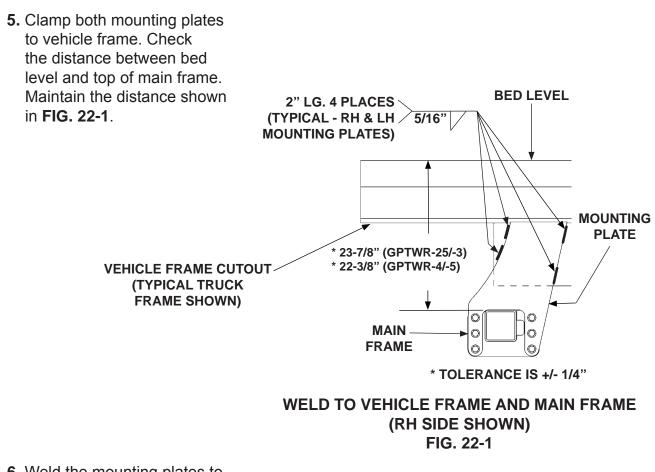
Prevent damage to hydraulic hoses. If welding next to hydraulic hoses, use a protective cover such as a welding blanket to cover the hoses.

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

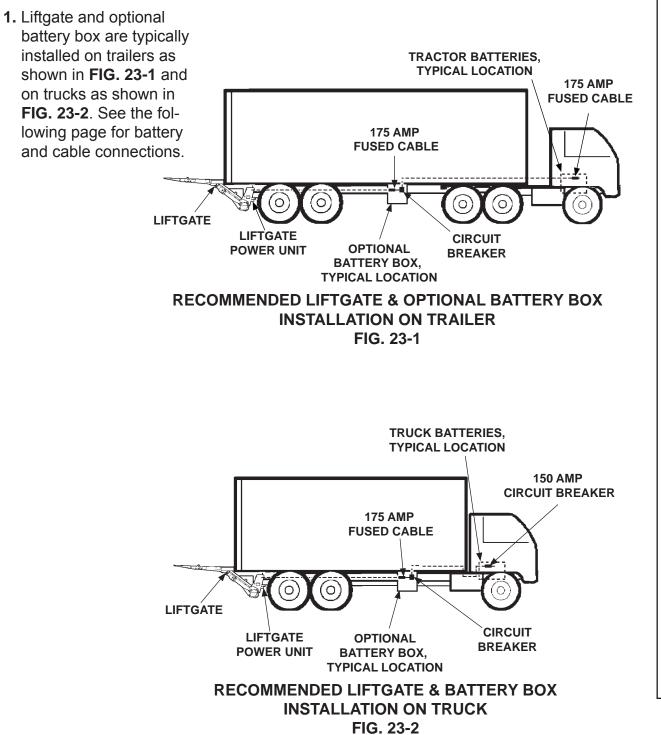
When using an electric welder, connect the welder ground to one of the parts being welded, as close to the weld as possible. Failure to comply could result in damage to cylinders and electrical parts.

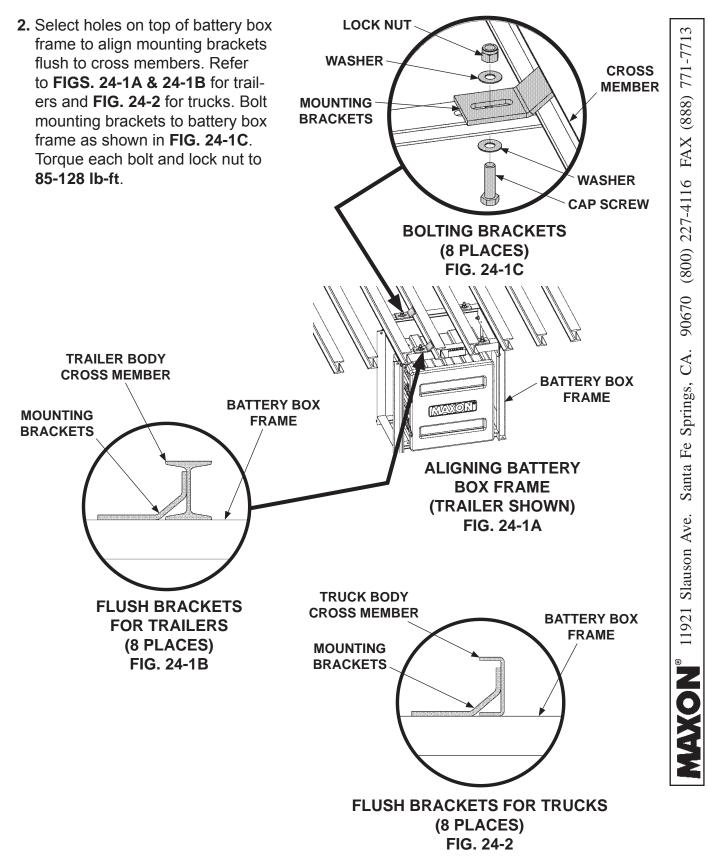


 Weld the mounting plates to vehicle frame as shown in FIG. 22-1. Remove clamps.

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**.

Using mounting brackets as a template mark and drill holes through cross members (FIG. 25-1). Bolt mounting brackets to cross members as shown in FIGS. 25-2A and 25-2B. Torque bolts and lock nuts to 85-128 lb-ft.

(800) 227-4116 FAX (888) 771-7713 CROSS MEMBER MOUNTING BRACKETS 1/2" HOLES MARK AND DRILL BRACKET HOLES 90670 FIG. 25-1 **WASHERS** (4 PLACES) CA. LOCK NUTS (2 PLACES) Santa Fe Springs, -00⁰⁹09 00 CROSS Or **MEMBER** MOUNTING **CAP SCREWS** BRACKETS (2 PLACES) MAXON[®] 11921 Slauson Ave. **BOLTING BRACKETS** (8 PLACES) FIG. 25-2B CROSS **MEMBERS BOLTING BATTERY BOX FRAME**

FIG. 25-2A

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.

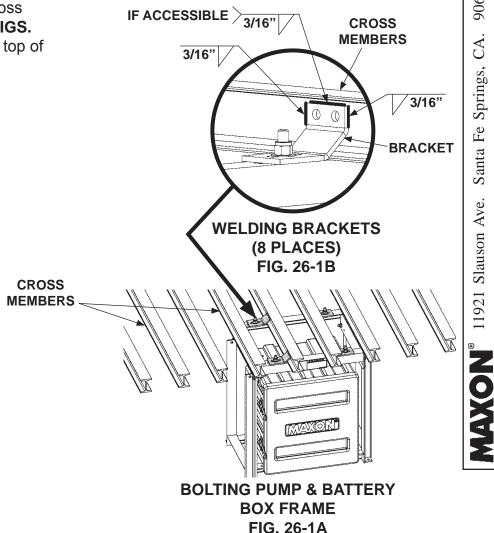
CAUTION

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.
26-1A and 26-1B. Weld top of bracket if accessible.



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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. 27-1 or 24 volt power as shown in FIG. 28-1.

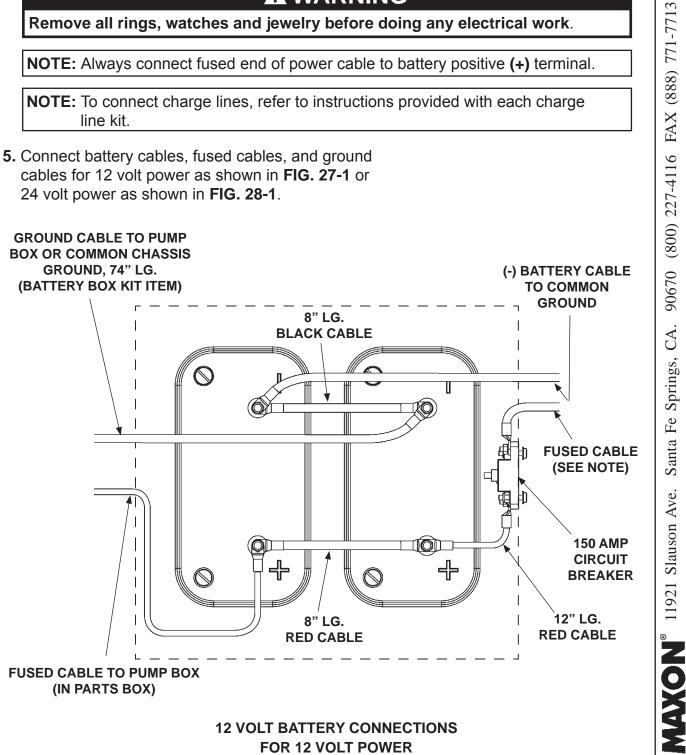
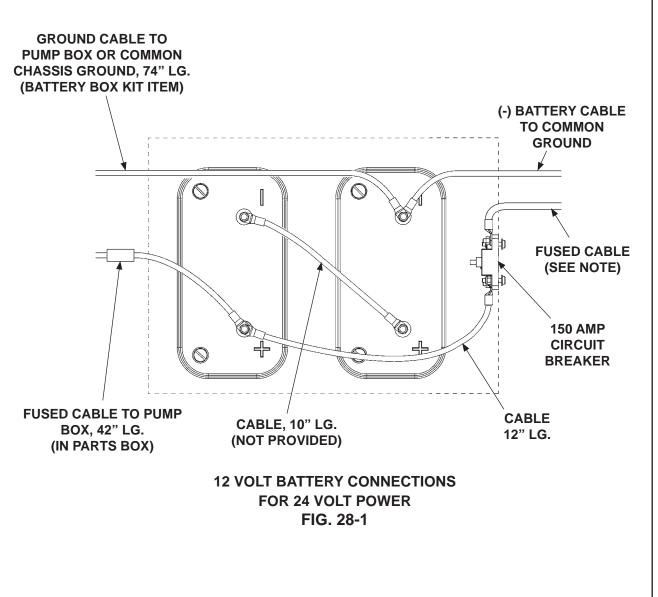


FIG. 27-1

27



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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.

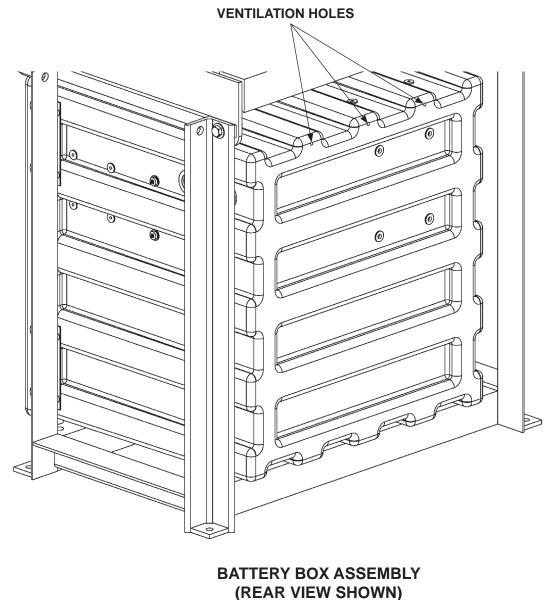


FIG. 29-1

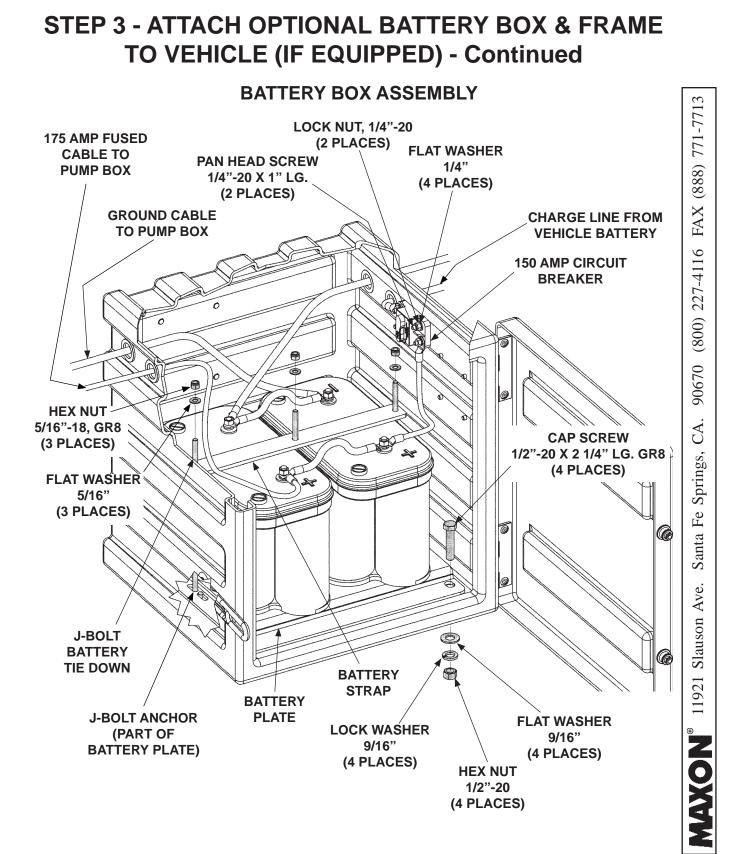


FIG. 30-1

STEP 4 - RUN POWER CABLE

(800) 227-4116 FAX (888) 771-7713

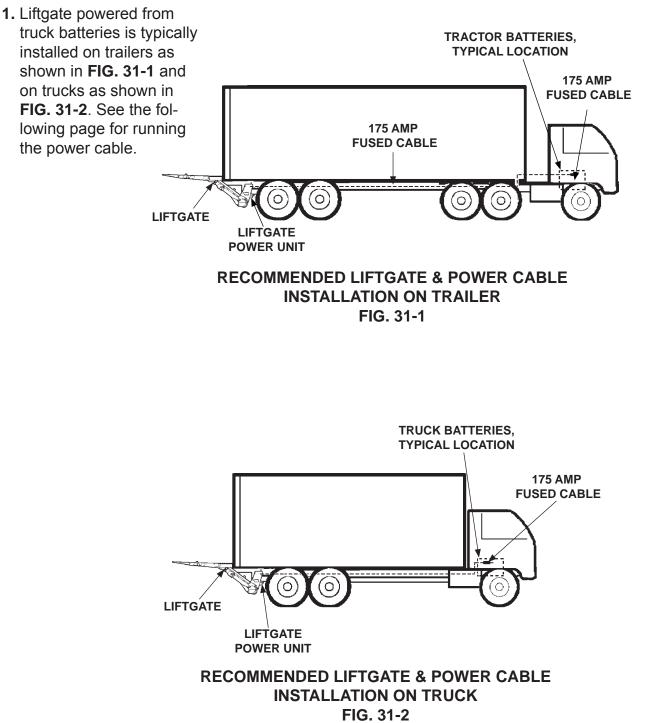
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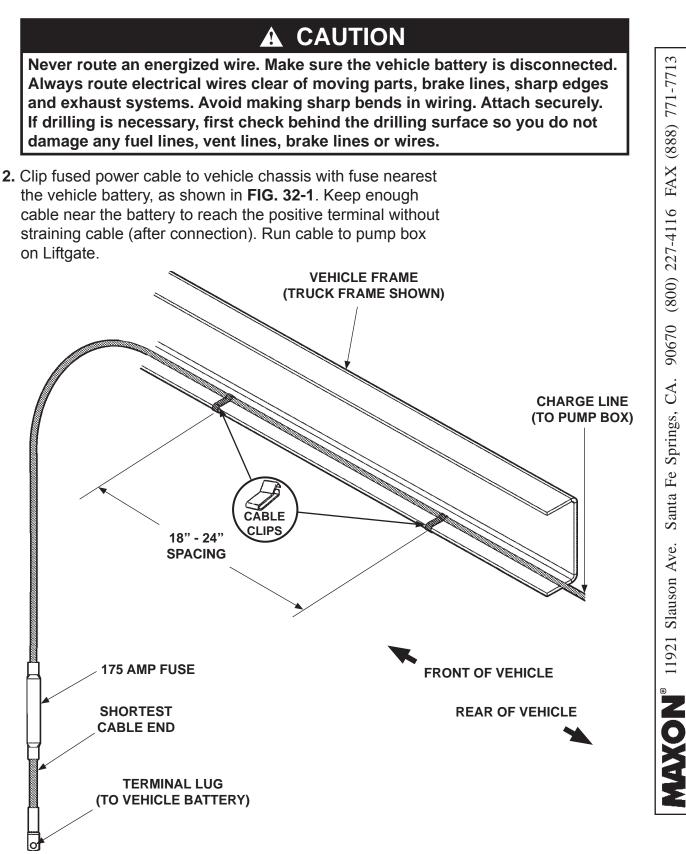
MAXON[®] 11921 Slauson Ave.

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



STEP 4 - RUN POWER CABLE - Continued



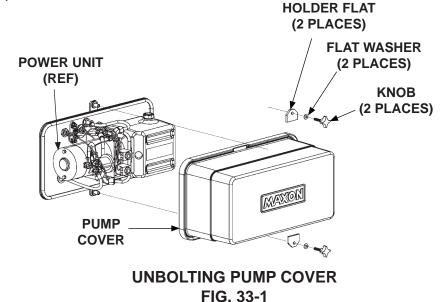
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FIG. 32-1

STEP 5 - CONNECT POWER CABLE

1. Unbolt and remove pump cover (FIG. 33-1).



2. On the bare wire end of fused power cable, keep enough length to attach copper terminal lug and reach motor solenoid switch (single pump) or pump selector switch (dual pumps) without putting tension on cable (after connection) (FIG. 33-2A). Measure (if needed), and then cut excess cable from bare wire end of cable. Put heat shrink tubing (parts bag item) (FIG. 33-2B) 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. 33-2C).

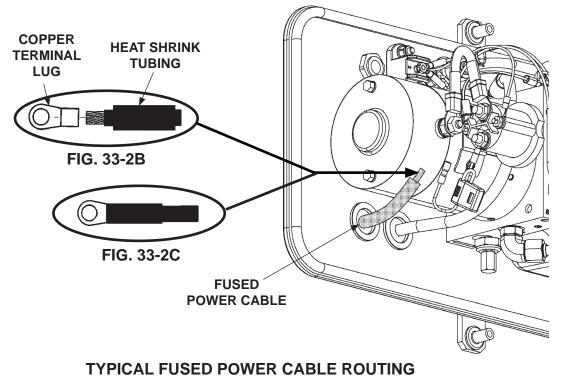


FIG. 33-2A

STEP 5 - CONNECT POWER CABLE - Continued

CAUTION

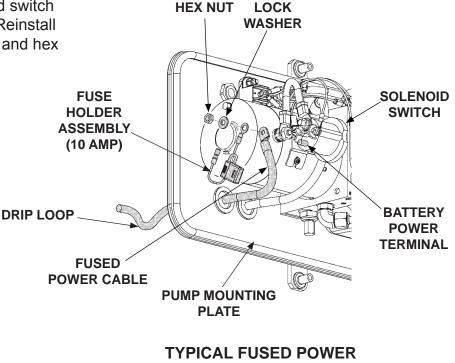
Do not over-tighten the terminal nuts on solenoid switch. For the load terminals, torque nuts to 35 lb-in max. Torque the nuts on #10-32 control terminals to 15 lb-in.

NOTE: Form a drip loop in the fused power cable where it enters the power unit on the outside of the pump mounting plate.

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

NOTE: For **dual pump configuration**, skip instruction 3 and complete instruction 4.

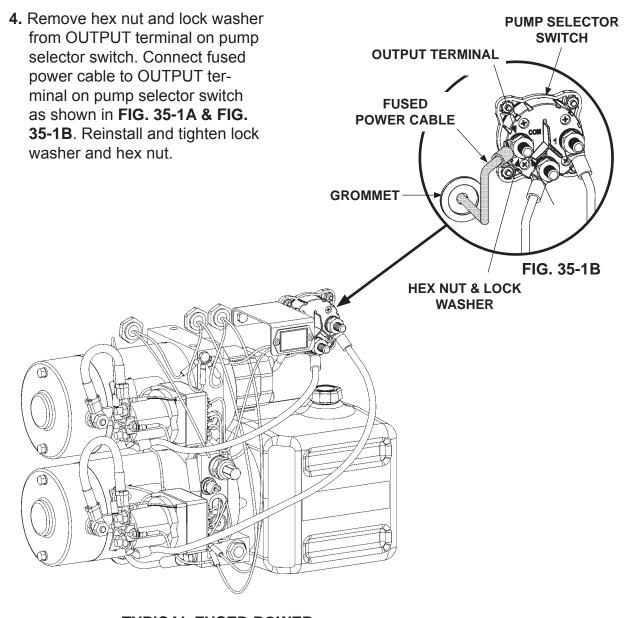
3. Remove hex nut and lock washer from battery power terminal on the solenoid switch. Remove fuse holder assembly. Connect the power cable and fuse holder assembly to the solenoid switch as shown in **FIG. 34-1**. Reinstall and tighten lock washer and hex nut.



CABLE ELECTRICAL CONNECTION FIG. 34-1



STEP 5 - CONNECT POWER CABLE - Continued

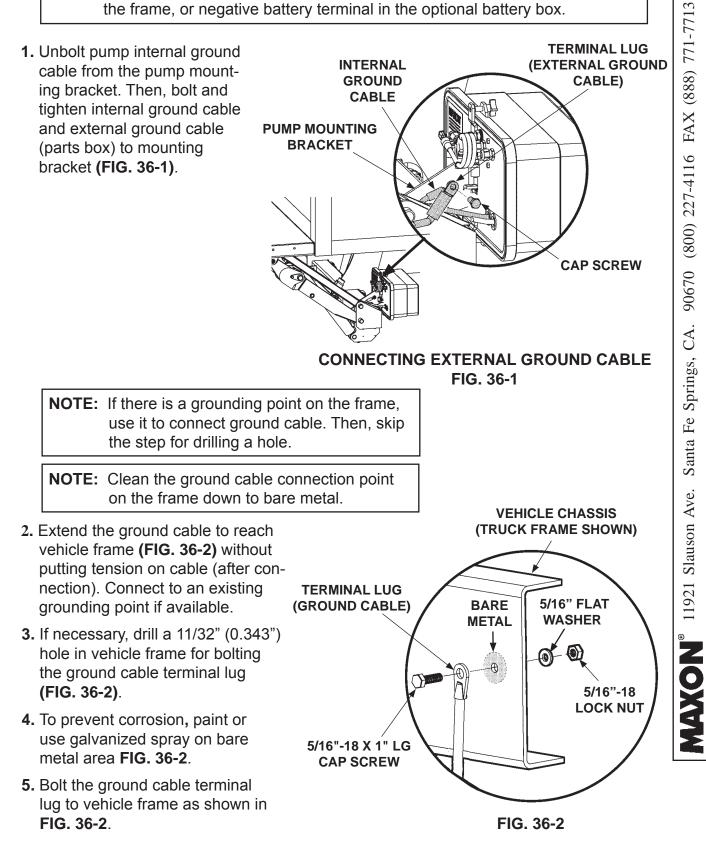


TYPICAL FUSED POWER CABLE ELECTRICAL CONNECTION - DUAL PUMPS FIG. 35-1A

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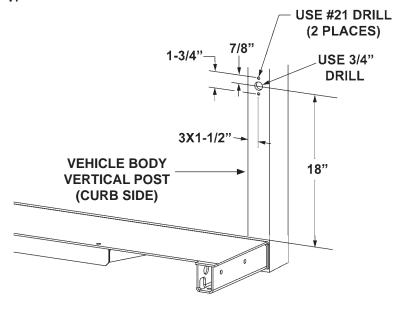
STEP 6 - CONNECT GROUND CABLE

NOTE: To ensure power unit is correctly grounded, connect 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 (.159) 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

NOTE: Form a drip loop in the control switch cable where it enters the power unit on the outside of the pump mounting plate.

- Insert control switch cable 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 cable 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

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

38-1).

and self-tapping screws, from installation parts

SELF-TAPPING SCREW, 1-1/2" LG. (2 PLACES) **CONTROL SWITCH** 3/4" HOLE (2 PLACES) VEHICLE BODY VERTICAL POST CONTROL SWITCH CABLE **ROUTING CONTROL SWITCH WIRING** FIG. 38-1 POWER DOWN MODULE SOLENOID SWITCH **BLACK WIRE TO TERMINAL 2** CORD GRIP WHITE WIRE **TO TERMINAL 1** Ð **GREEN WIRE** WHITE WIRE **FUSE HOLDER** ASSEMBLY

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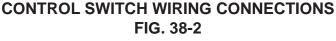
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STEP 8 - CHECKING HYDRAULIC FLUID

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.

- 1. Check the hydraulic fluid level in reservoir with Liftgate stowed, or platform at vehicle bed height.
 - **NOTE:** Information for checking hydraulic fluid level is shown on a decal on the pump reservoir.
- Check if hydraulic oil level is in the range shown on decal (FIG. 39-1). If necessary, remove filler cap (FIG. 39-1) and add hydraulic oil until level rises within the range on decal (FIG. 39-1). Then, 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.

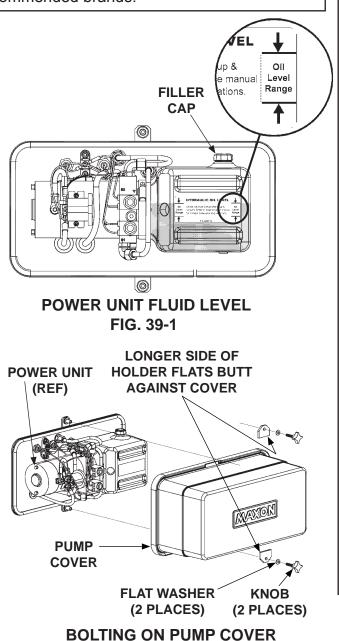


FIG. 39-2

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STEP 8 - CHECKING HYDRAULIC FLUID - Continued

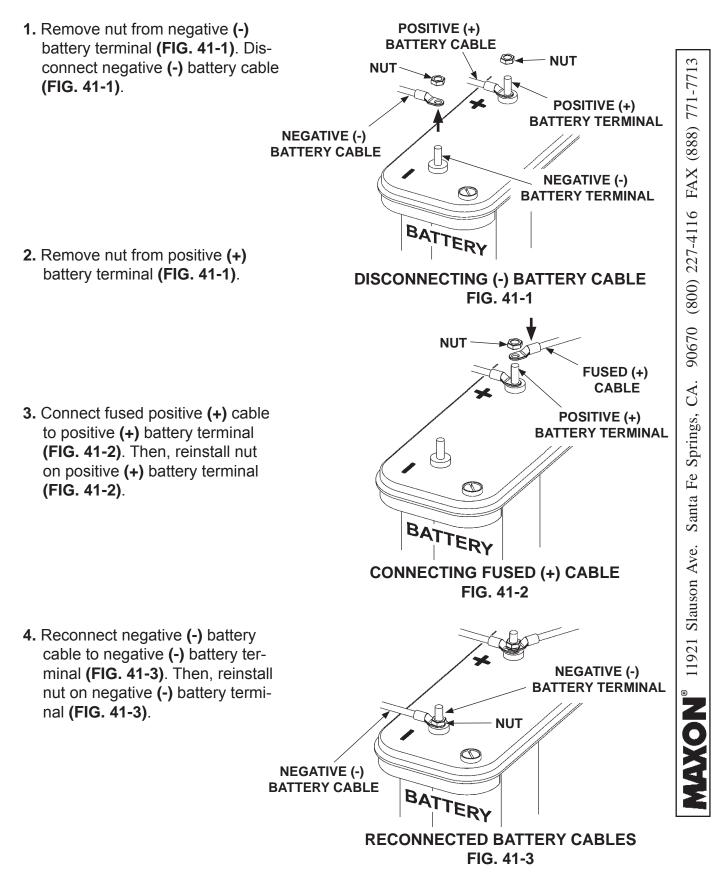
ISO 32 HYDRAULIC OIL			
RECOMMENDED BRANDS PART NUMBER			
CHEVRON	HIPERSYN 32		
KENDALL	GOLDEN MV		
SHELL	TELLUS S2 VX 32		
EXXONMOBIL	UNIVIS N-32, DTE-24		

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			
EXXONMOBIL	UNIVIS HVI-13			
ROSEMEAD	THS FLUID 17111			

TABLE 40-2

STEP 9 - CONNECT POWER CABLE TO BATTERY



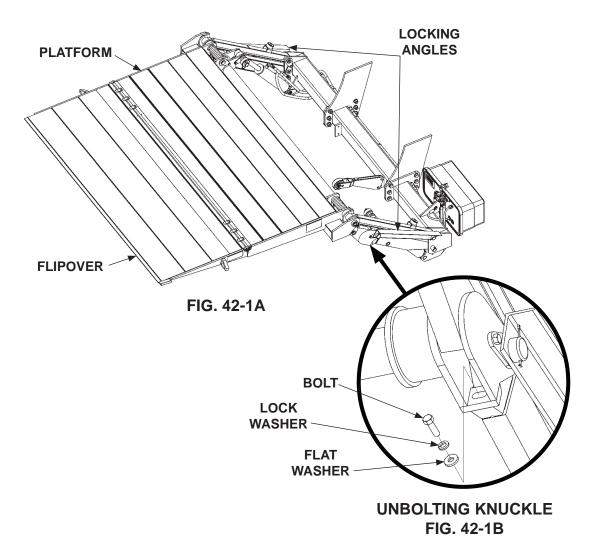
CAUTION

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 (800) 227-4116 FAX (888) 771-7713 supporting Liftgate (FIG. 43-1). FLOOR JACK **REMOVING JACK** 5. Lower platform to the ground (FIG. FIG. 43-1 43-2). Look for any interference between liftgate and vehicle as platform is lowered. If the platform 90670 lowers with a "jerking" motion, bleed air from the hydraulic system by doing the following. Push the Santa Fe Springs, CA. control switch to the DOWN position until you hear air escaping into the hydraulic fluid reservoir. Make sure the oil is not aerated. Then, raise the platform (FIG. 43-3). Look for any interference between LOWERING PLATFORM liftgate and vehicle as platform is FIG. 43-2 raised. Repeat step until there is no 11921 Slauson Ave. air left in the system and platform lowers smoothly (FIG. 43-3).

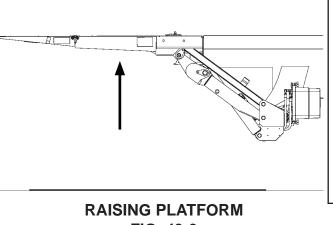
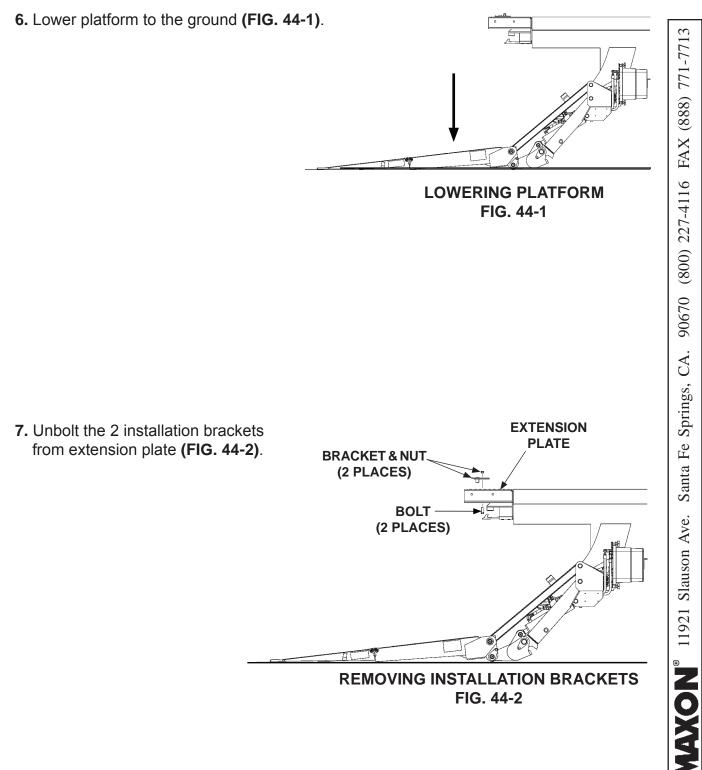
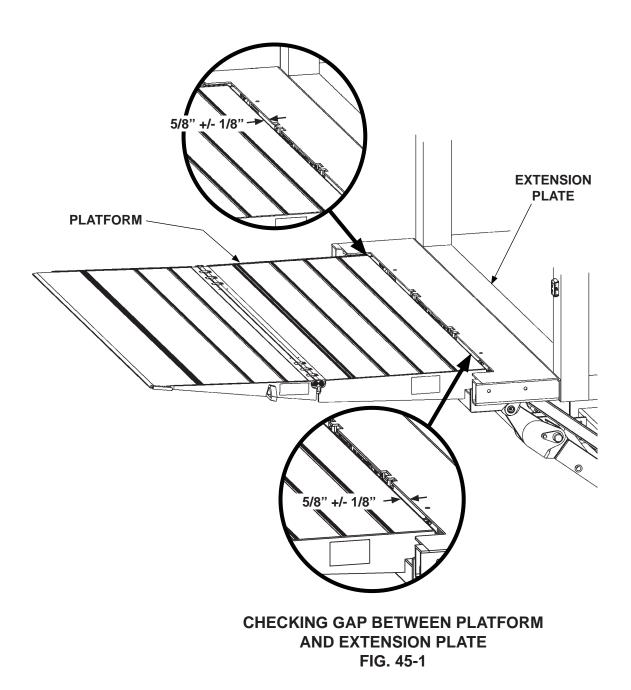


FIG. 43-3

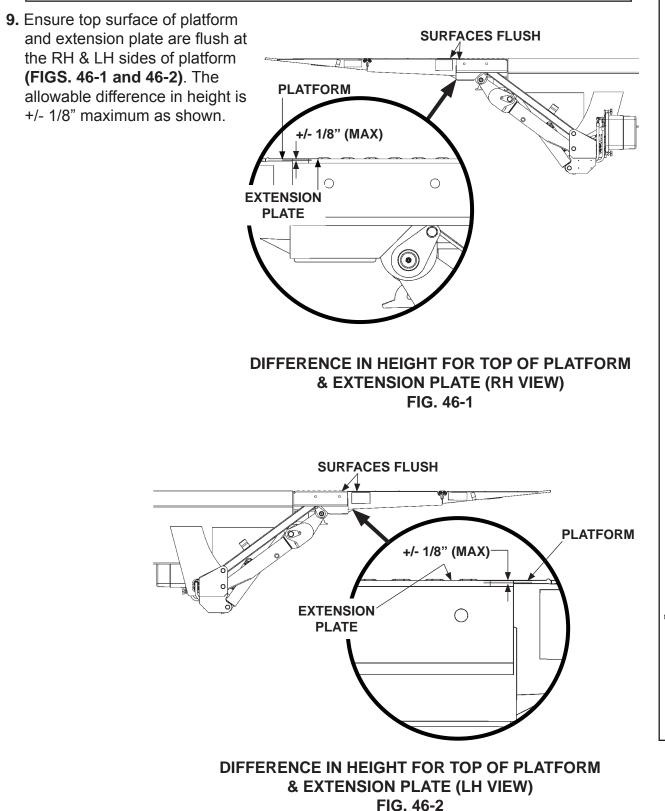


NOTE: Correct any fit and interference problems before continuing with installation.

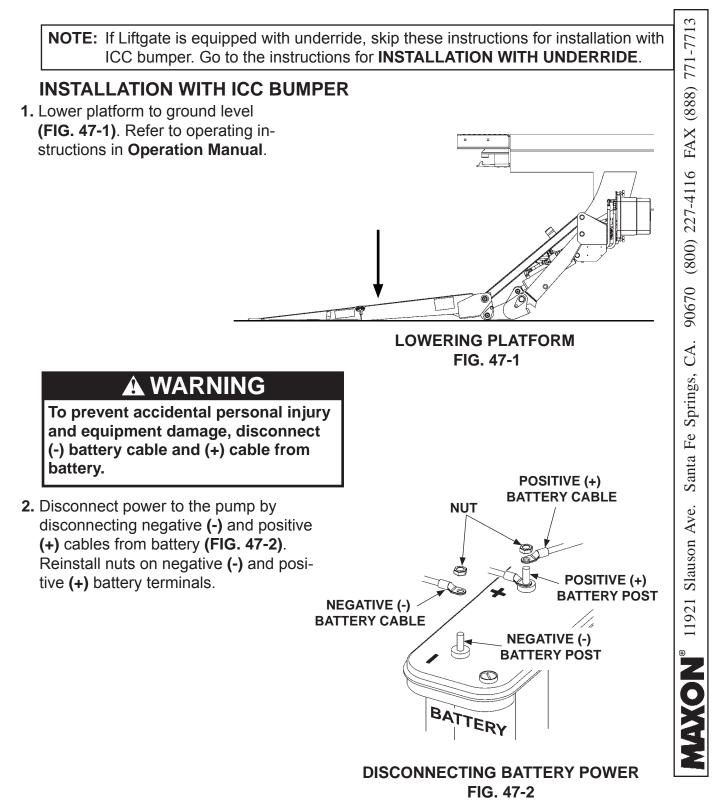
 Raise the platform to vehicle floor level (FIG. 45-1). (Refer to GPT Series OPERATION MANUAL.) Check for 5/8" gap between platform and edge of extension plate (FIG. 45-1).



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

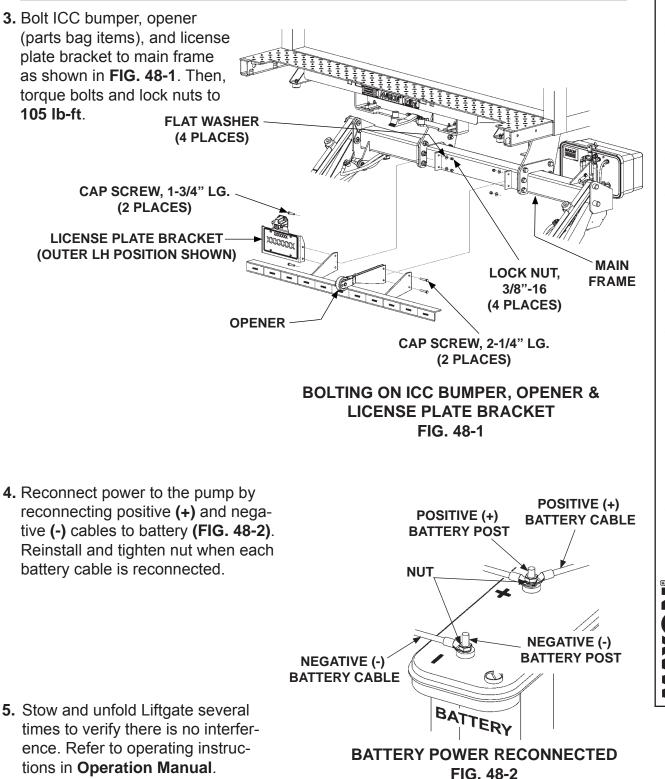


STEP 11 - INSTALL OPENER & LICENSE PLATE BRACKET WITH ICC BUMPER OR UNDERRIDE



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

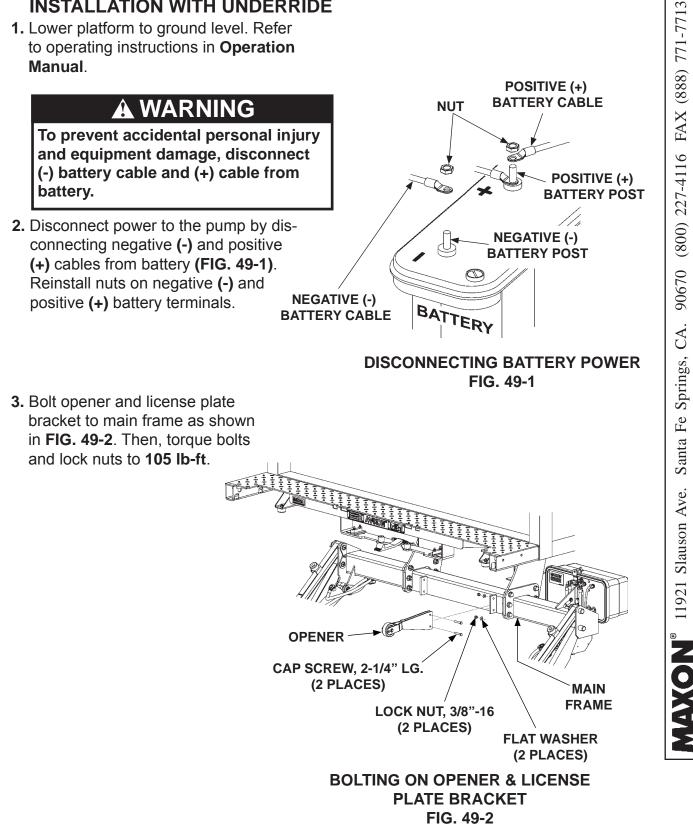
NOTE: License plate bracket can be bolted in 4 positions on the ICC bumper brackets. License plate bracket can be bolted on the inside or outside of the LH bumper bracket or RH bumper bracket.



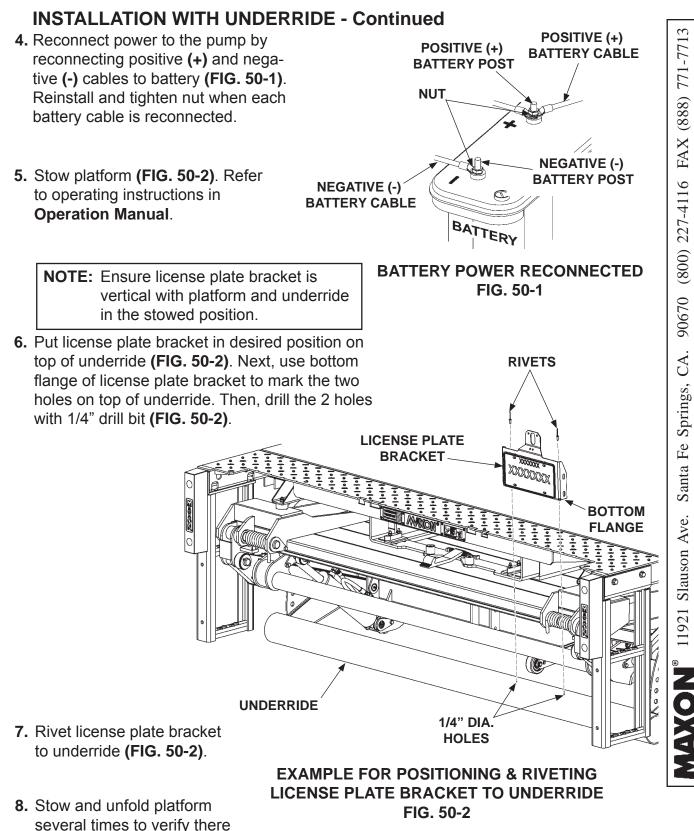
STEP 11 - INSTALL OPENER & LICENSE PLATE BRACKET WITH ICC BUMPER OR UNDERRIDE - Cont'd



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



50

is no interference.

STEP 12 - ADJUST PLATFORM (IF REQUIRED)

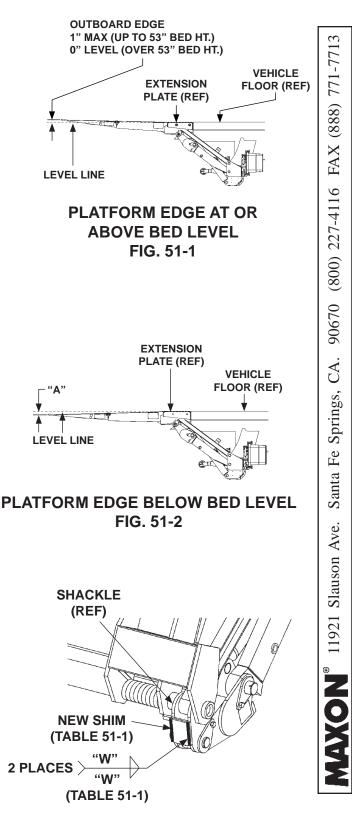
NOTE: Before doing the following procedure, make sure vehicle is parked on level ground.

- 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 can be a maximum of 1" above bed level if bed height is 48" to 53". If bed height is 54" to 55" the outboard edge is 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.



WELDING SHIMS (CURBSIDE SHOWN) FIG. 51-3

STEP 12 - ADJUST PLATFORM - Continued

4. Compare measurement "B" (FIG. **52-1)** with the 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

5. 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 (FIG. 52-3).

level. The outboard edge of platform should

be level or up to 1" maximum above bed

EXTENSION PLATE (REF) VEHICLE **'B**" FLOOR (REF) LEVEL LINE PLATFORM EDGE ABOVE BED LEVEL FIG. 52-1 SHACKLE (REF) **GRIND THIS FACE** (SEE TABLE 52-1) **GRINDING PLATFORM STOPS** (CURBSIDE SHOWN) FIG. 52-2 OUTBOARD EDGE 1" MAX (UP TO 53" BED HT.) 0" LEVEL (OVER 53" BED HT.) VEHICLE EXTENSION FLOOR (REF) PLATE (REF) LEVEL LINE 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 -5/16" BOTH **VEHICLE FRAME** MOUNTING (TYPICAL TRUCK FRAME PLATES SHOWN) MOUNTING PLATE **VEHICLE FRAME CUTOUT** O 0 0 (DASHED LINES) 0 O 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 SPLIT MASSON LOOMS FIBERGLASS MOUNTING SLEEVES PLATES (REF)

FIG. 53-1B

STEP 14 - BOLT STEPS TO EXTENSION PLATE

1. Lower platform to the ground (FIG. 54-1). PLATFORM LOWERED TO GROUND FIG. 54-1 To prevent accidental personal injury and equipment damage, disconnect (-) battery cable and (+) cable from battery. POSITIVE (+) **BATTERY CABLE 2.** Disconnect power to the pump by NUT disconnecting negative (-) and positive (+) cables from battery (FIG. 54-2). Reinstall nuts on negative (-) and posi-POSITIVE (+) tive (+) battery terminals. **BATTERY POST NEGATIVE (-) BATTERY CABLE NEGATIVE (-) BATTERY POST** 0 BATTERY DISCONNECTING BATTERY POWER FIG. 54-2

STEP 14- BOLT STEPS TO EXTENSION PLATE - Continued

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.

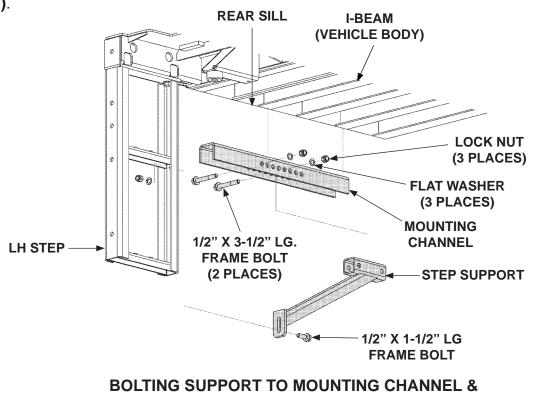
NOTE: If 102" extension kit is to be installed for 102" wide vehicle, install the extension kit before installing the steps.

3. Line up the LH step (Kit item) on LH side of the extension plate. Bolt step to extension plate (FIG. 55-1). Tighten LOCK NUT FLANGE LOCK NUT (2 PLACES) (2 PLACES) bolts 1, 2, 3 and 4 in the numbered PART OF order shown in FIG. 55-1. Then, torque **EXTENSION** each bolt and lock nut to 105 lb-ft. in PLATE the same order. 0 FLAT WASHER (2 PLACES) 1/2"-13 0 O CARRIAGE BOLT 3 4 (2 PLACES) 0 1/2" X 1-1/2" LG -FRAME BOLT 1 0 2 (2 PLACES) 90° 0 LH STEP 0 **BOLTING STEP TO EXTENSION PLATE** (LH DUAL STEP SHOWN) FIG. 55-1

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STEP 14 - BOLT STEPS TO EXTENSION PLATE - Continued

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



STEP (LH 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 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 - Continued NOTE: Before welding mounting channel to vehicle body, ensure step is straight and steps are in vertical position.

3/16" REAR SILL AS POSSIBLE 7. Weld the flat part of the mounting channel to vehicle body as shown in FIG. 57-1. **REAR SILL I-BEAM** 0 (VEHICLE BODY) 0 000000D 6 MOUNTING **CHANNEL** Ø WELDING FLAT OF MOUNTING CHANNEL TO VEHICLE BODY (LH DUAL STEP SHOWN) FIG. 57-1 8. Repeat instructions 3 through 7 **POSITIVE (+)** for RH step. Use the RH Step As-**POSITIVE (+) BATTERY CABLE** sembly (Kit item). **BATTERY POST** NUT **9.** Reconnect power to the pump by reconnecting positive (+) and negative (-) cables to battery (FIG. 57-2). Reinstall and tighten nut when each **NEGATIVE (-)**

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BATTERY POST

(L)

RECONNECTING POWER FIG. 57-2

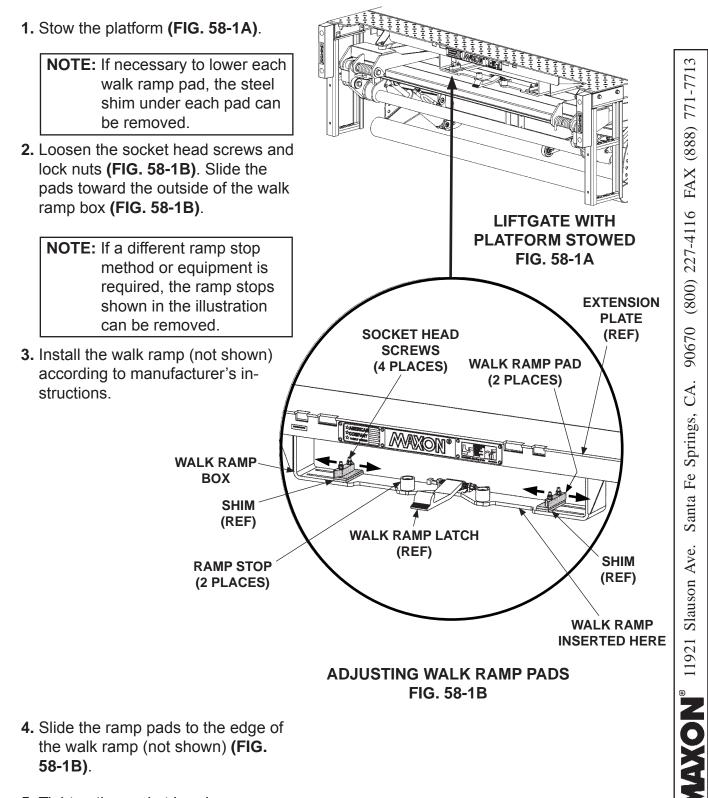
BATTERY

57

NEGATIVE (-) BATTERY CABLE

battery cable is reconnected.

STEP 15 - ADJUST WALK RAMP PADS

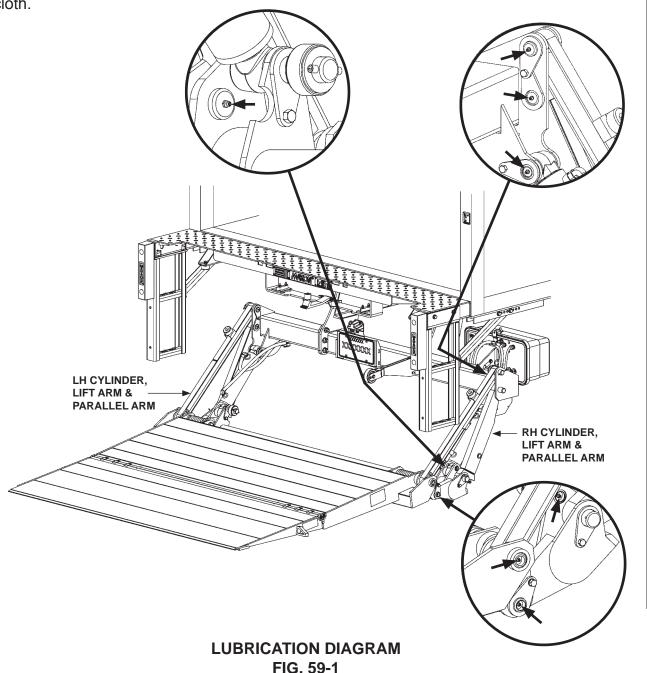


 Tighten the socket head screws and lock nuts securely (FIG. 58-1B).

STEP 16 - 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.

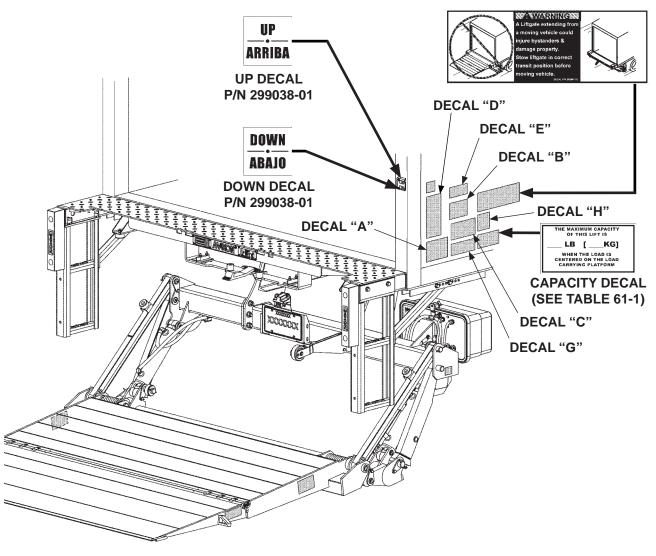
Refer to lubrication diagram **(FIG. 59-1)** to find the lube fittings on cylinders and arms. Pump EP chassis grease in each lube fitting on the cylinders and arms until grease starts oozing from ends of the bearings. Then, wipe off excess grease with a clean lint-free cloth.



APPLY DECALS

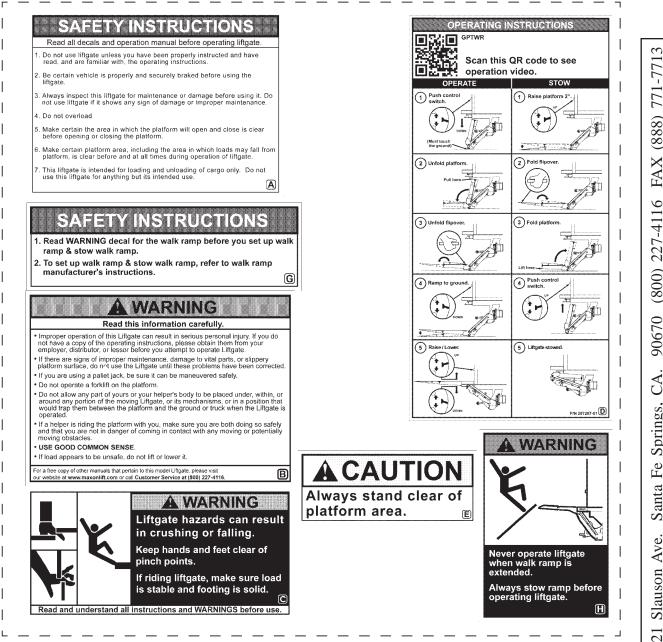
NOTE: Ensure there is no residue, dirt or corrosion where decals are attached. If necessary, clean surface before attaching decals.

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.





APPLY DECALS - Continued



DECAL SHEET P/N 297207-01 FIG. 61-1

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

CAPACITY DECAL TABLE 61-1

FAX (888) 227-4116 (800)90670 CA. Springs, Santa Fe Ave. Slauson 11921 **NOXDN**

DECALS & PLATES

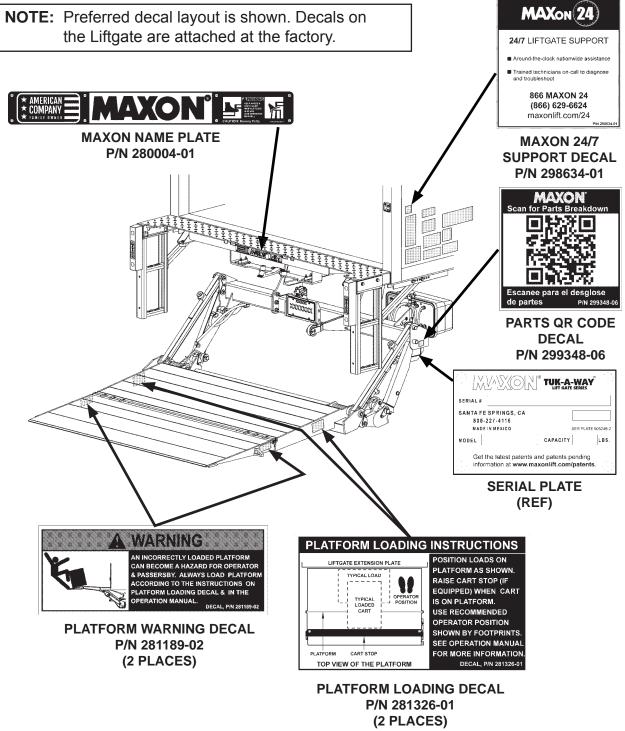


FIG. 62-1

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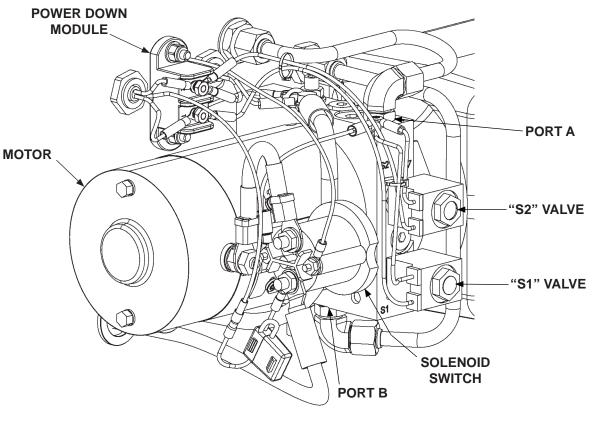
TOUCH-UP PAINTED OR GALVANIZED FINISH

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 touch-up paint kit.
- 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 - SINGLE PUMP



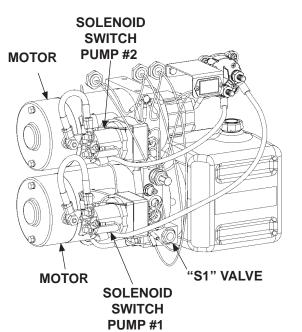
POWER UNIT FIG. 64-1

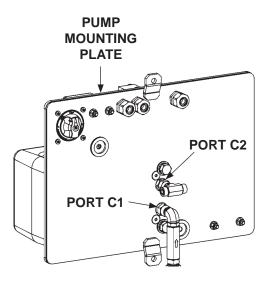
NOTE: Hydraulic lock valve is on the RH cylinder.

POWER UNIT MOTOR & SOLENOID OPERATION						
		SOLENOID OPERATION (✓ MEANS ENERGIZED)				
LIFTGATE FUNCTION	PORT	MOTOR	VALVE "S2"	VALVE "S1"	LOCK VALVE	POWER DOWN MODULE
RAISE	А	\checkmark	-	\checkmark	-	-
LOWER	В	\checkmark	\checkmark	-	\checkmark	\checkmark
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC						

TABLE 64-1

PUMP & MOTOR SOLENOID SWITCH OPERATION - DUAL PUMPS





DUAL PUMP POWER UNIT - REAR VIEW FIG. 65-2

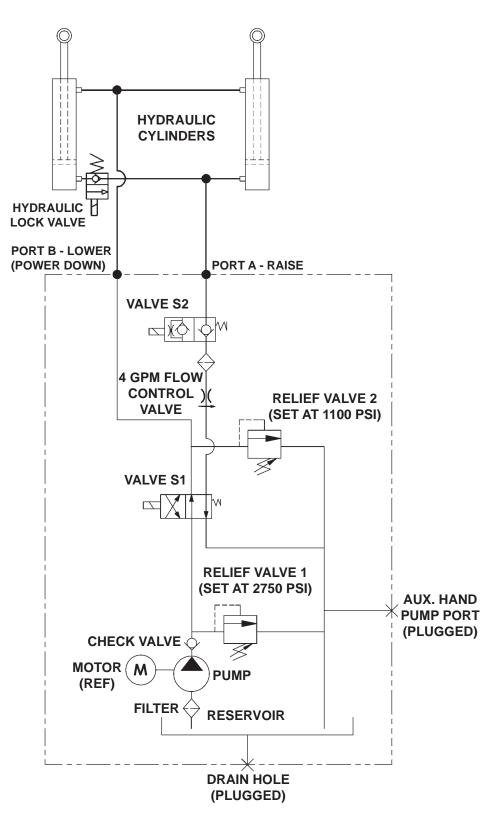
DUAL PUMP POWER UNIT FIG. 65-1

NOTE: Hydraulic lock valves are located on the RH & LH cylinders.

POWER UNIT MOTOR & SOLENOID SWITCH OPERATION						
		SOLENOID SWITCH OPERATION (✓ MEANS ENERGIZED)				
LIFTGATE	PORT	MOTOR	OTOR VALVE LOCK "S1" VALVES		ARC SUPPRESSION MODULE	
RAISE	C1	\checkmark	-	-	-	
LOWER	C2		\checkmark	\checkmark	\checkmark	
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC						

TABLE 65-1

HYDRAULIC SCHEMATIC (POWER DOWN)



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FIG. 66-1

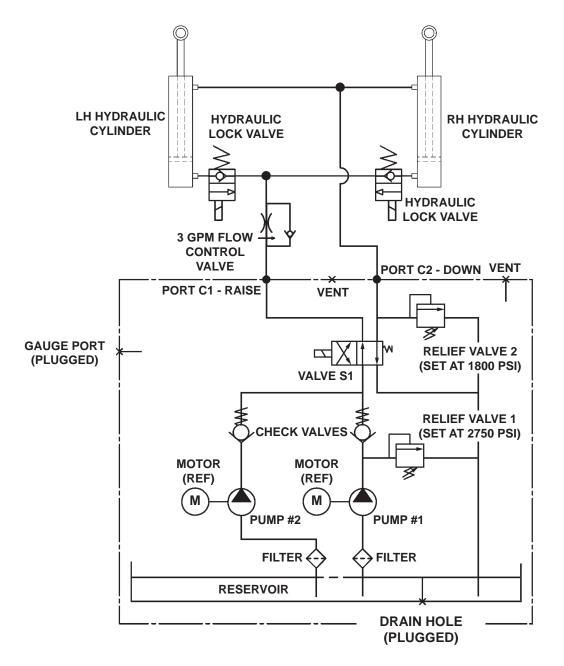
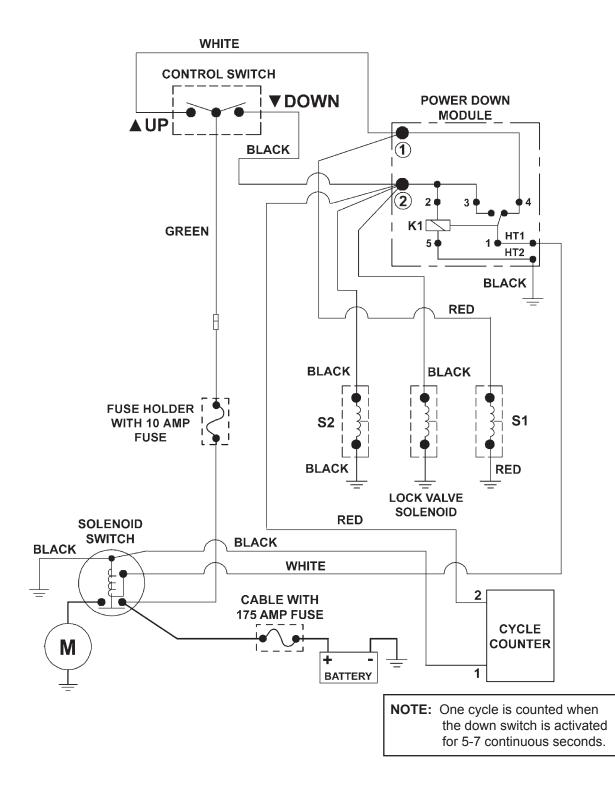


FIG. 67-1

ELECTRICAL SCHEMATIC (POWER DOWN)



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FIG. 68-1

ELECTRICAL SCHEMATIC (POWER DOWN) - DUAL PUMPS

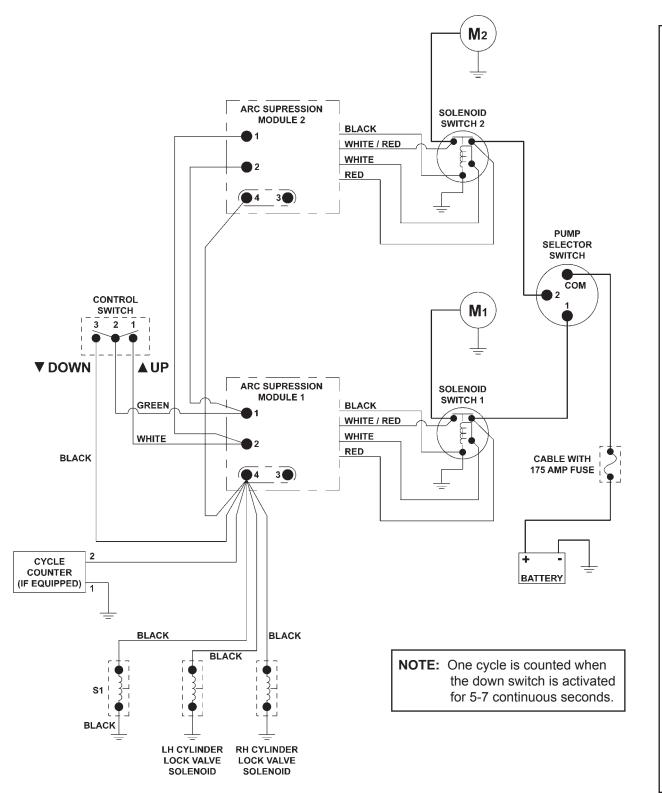




FIG. 69-1

SYSTEM DIAGRAMS **GPTWR 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:	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 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	
	<2mA		
Ampere			
Ampere Ground Cable			

OPTIONS OPTIONAL LIFTGATE COMPONENTS

MISCELLANEOUS KITS	PART NO.
FRAMELESS TRAILER BRACKET, MOUNTING, 102" WIDE	282970-01
FRAMELESS TRAILER BRACKET, MOUNTING, 102" WIDE (GALVANIZED)	282970-01G
FRAMELESS TRAILER BRACKET, MOUNTING, 96" WIDE	282970-02
FRAMELESS TRAILER BRACKET, MOUNTING, 96" WIDE (GALVANIZED)	282970-02G
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
	288705-31G
DUAL STEP W/LIGHT (GALVANIZED), 14" LG. RUBBER BUMPERS	
DUAL STEP W/LIGHT (GALVANIZED), 14" LG. RUBBER BUMPERS DUAL STEPS W/LIGHT (GALVANIZED), 13.5" LG. POLYETHYLENE BUMPERS	288705-32G
DUAL STEP W/LIGHT (GALVANIZED), 14" LG. RUBBER BUMPERS DUAL STEPS W/LIGHT (GALVANIZED), 13.5" LG. POLYETHYLENE BUMPERS DUAL STEP (GALVANIZED), CURB SIDE, 14" LG. RUBBER BUMPERS	288705-32G 288705-03G

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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

MAXON[®] PRE-DELIVERY INSPECTION FORM

Model:_____

Date: _____

Serial Number: _____

Technician:

- **Pre-Installation Inspection:** □ Correct model □ Correct capacity □ Correct platform size □ Correct options □ Correct manuals & decals Structural Inspection: □ Liftgate is centered on vehicle & mounted per dimensions in this manual. Pump box is mounted securely. □ All installation welds are done per instructions in this manual. □ All roll pins, bolts & fasteners on liftgate are tight. □ All hardware & fasteners, used to secure liftgate to vehicle, are tight. □ Ensure platform ramp touches ground when shackles are 1" above ground, and platform & flipover are level & touching the ground. Hydraulic Inspection: □ Fluid at correct level (See CHECKING HYDRAULIC FLUID step in this manual.) □ No leaks from hydraulic fittings in pump box □ No leaks from hydraulic line connections **Electrical Inspection:** D Power/charge plug and terminals are clean & tight Individual wire connections are tight □ Circuit breaker (150A) installed in battery box (if equipped) or by truck/tractor battery □ Batteries are fully charged, all cable connections are tight & tiedowns are tight. □ Solenoid wiring connections are tight.
- □ Wiring harness connections are tight.
- Electrical cable connections are tight & secured clear of moving parts & sharp edges.

Operation Inspection:

- **NOTE:** 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.
- □ Liftgate operates correctly using all main & optional control switches.

GPTWR-25 or -3 only

- □ Unloaded platform lowers in 6 to 10 sec.
- □ Unloaded platform raises in 8 to 12 sec.

GPTWR-4

- □ Unloaded platform lowers in 7 to 11 sec.
- □ Unloaded platform raises in **9 to 13 sec**.

GPTWR-5

- □ Unloaded platform lowers in **10 to 14 sec**.
- $\hfill\square$ Unloaded platform raises in **12 to 16 sec**.
- □ All GPTWR: Unloaded platform raises and

lowers evenly. At the extension plate, platform must not be more than 1/8" uneven, from side to side.

- □ All GPTWR: Platform stores securely under vehicle body.
- □ Cycle counter indicates all up & down cycles.
- □ Decals are in correct location and legible.

Verify all lights are operational

- Platform lights turn **ON** when platform is unfolded, and turn **OFF** when platform is stowed.
- □ Taillights, stop lights, turn lights, and backup lights turn **ON** and **OFF** correctly.