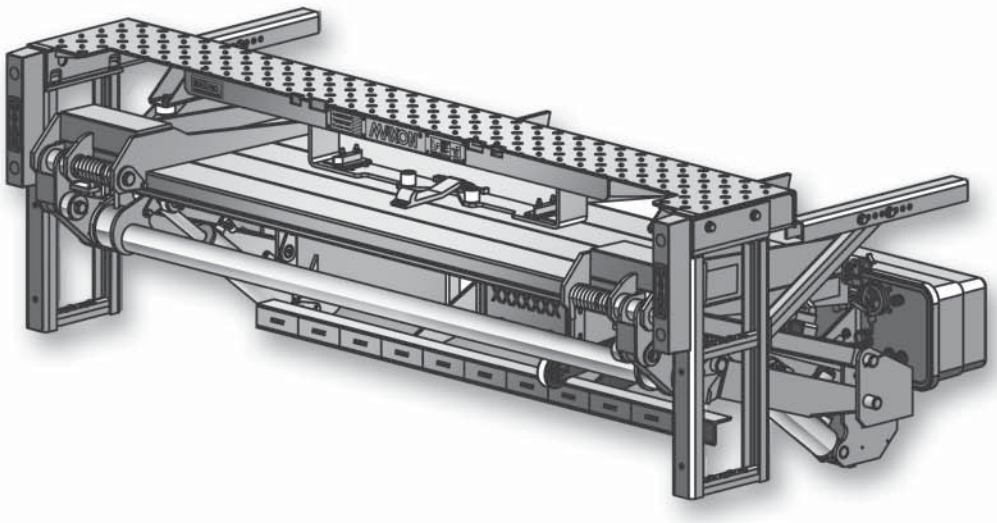
M-16-20
JULY 2016

MAXON®

GPT Series

INSTALLATION MANUAL

GPTWR-25, GPTWR-3, GPTWR-4 & GPTWR-5



To find **maintenance & parts** information for your **GPTWR Liftgate**, go to **www.maxonlift.com**. Click the **PRODUCTS, TUK-A-WAY** & **GPTWR** buttons. Open the **Maintenance Manual** in the **PRODUCT DOCUMENTATION** window.

TABLE OF CONTENTS

SUMMARY OF CHANGES: M-16-20

PAGE	DESCRIPTION OF CHANGE
COVER	Initial release of manual. GPTWR liftgate has redesigned extension plate and steps.
7	Shows components for current production GPTWR.
8	New toggle switch.
9	New manuals and decals kit with new manuals and decal sheet.
15, 16, 17	Extension plate hole pattern changed to 19 holes and hole spacing changed. Standard locknuts in the extension plate hardware kit changed to teardrop lock nuts.
36, 37	Holes for mounting new control switch are marked without a template. New control switch and wire connections to power down module are shown.
39	Part numbers, for ISO 15 and ISO 32 Shell hydraulic oil, are updated.
54, 55, 56, 57	Shows new steps and mounting hardware.
60	Shows installer applied decals.
61	Shows redesigned decal sheet.
62	Shows factory-installed decals and new MAXON plate.
66	Electrical schematic updated to show new power down module.
67	Listed new P/N'S for optional extension plate hardware kit, dual/street side controls, dual steps, single steps, dock bumpers without rubber or plastic bumpers.

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.
- Welding on galvanized parts gives off especially hazardous fumes. Comply with WARNING decal on the galvanized part **(FIG. 5-1)**. To minimize hazard remove galvanizing from weld area, provide adequate ventilation, and wear suitable respirator.

FIG. 5-1

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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.

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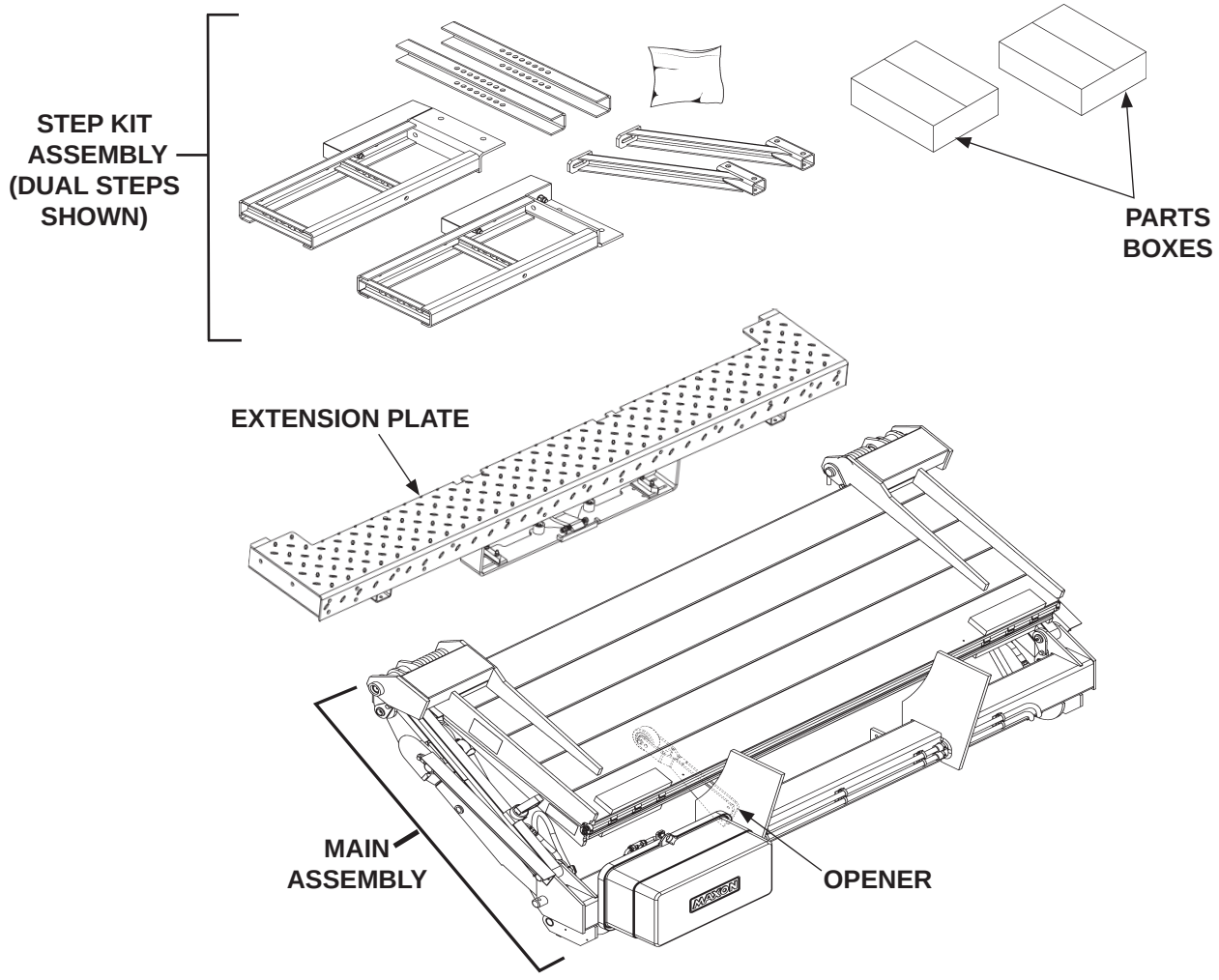
STANDARD LIFTGATE COMPONENTS

⚠ 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



TYPICAL LIFTGATE COMPONENTS FOR SHIPMENT
(OPTIONAL COMPONENTS NOT SHOWN)
FIG. 7-1

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GPTWR-SERIES INSTALLATION PARTS BAGS

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
1	FRAME CLIP, 1/2” X 1-3/8”	7	050079
2	SHIM, 2-1/2” X 1” X 1/8” THICK	2	201999
3	SHIM, 2-1/2” X 1” X 1/16” THK.	2	264732
4	INSTALLATION BRACKET	2	269462-01
5	HEAT SHRINK TUBING, 3/4” X 1-1/2” LG.	1	253316-04
6	FUSED POWER CABLE, 175 AMP, 38’ LG. (MODELS WITH CHARGE LINE ONLY)	1	264422
7	TOGGLE SWITCH ASSEMBLY, 138” LG.	1	296855-01
8	SELF-TAPPING SCREW, 10-24 X 1” LG.	4	900057-5
9	CLAMP, #10 RUBBER LOOM	2	801681
10	COPPER LUG (2GA) (MODELS WITH CHARGE LINE ONLY)	1	906497-02
11	LICENSE PLATE BRACKET KIT	1	287015-01
12	CAP SCREW, 1/2’’-13 X 1-1/2” LG.	2	900035-3
13	HEX NUT, 1/2”-13	2	901011-9
14	TIE, PLASTIC, 8” LG. (BLACK)	1	905322-01

TABLE 8-1

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GPTWR-SERIES MANUALS & DECALS

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

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	DECAL & MANUAL KIT	1	297225-11 (GPTWR-25)
			297225-12 (GPTWR-3)
			297225-13 (GPTWR-4)
			297225-14 (GPTWR-5)
1	INSTALLATION MANUAL (GPTWR)	1	M-16-19
2	OPERATION MANUAL (GPT & GPTWR)	1	M-16-21
3	DECALS (SEE DECAL PAGES IN THIS MANUAL)	1	(ALL GPTWR'S)

TABLE 9-1

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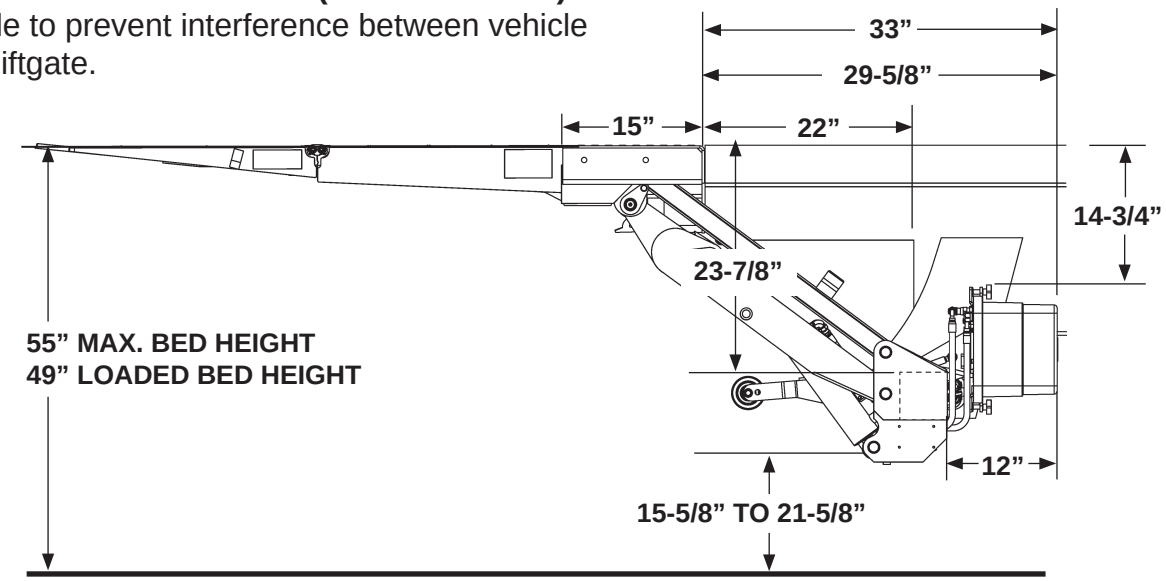
VEHICLE REQUIREMENTS

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.

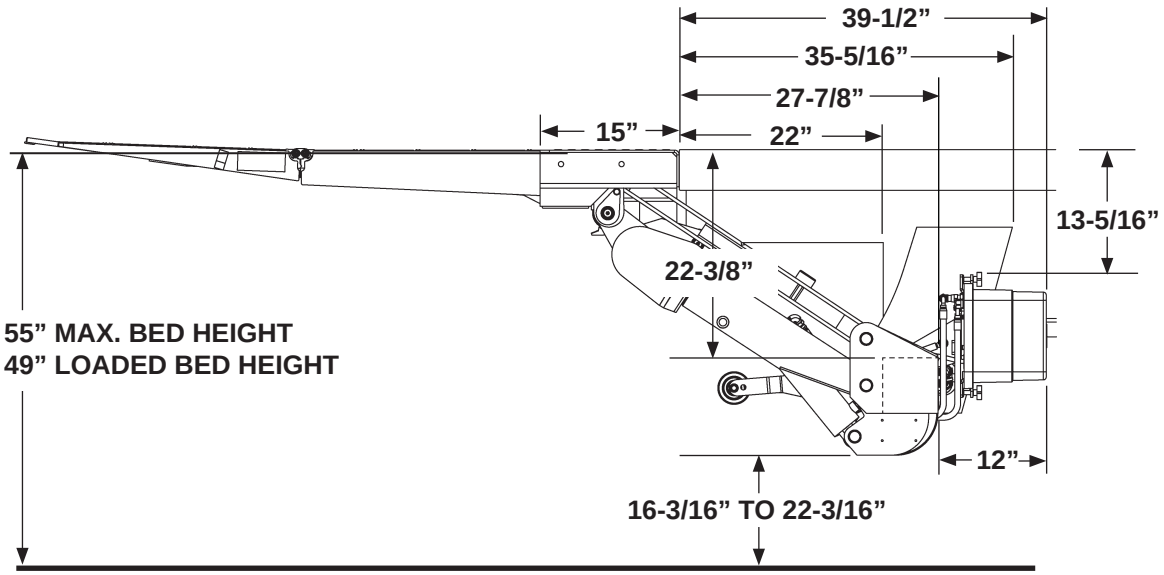
NOTE: Make sure vehicle is parked on level ground while preparing vehicle and installing Liftgate.

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

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



GPTWR-25 & GPTWR-3 LIFTGATE CLEARANCE DIMENSIONS
FIG. 10-1



GPTWR-4 & GPTWR-5 LIFTGATE CLEARANCE DIMENSIONS
FIG. 10-2

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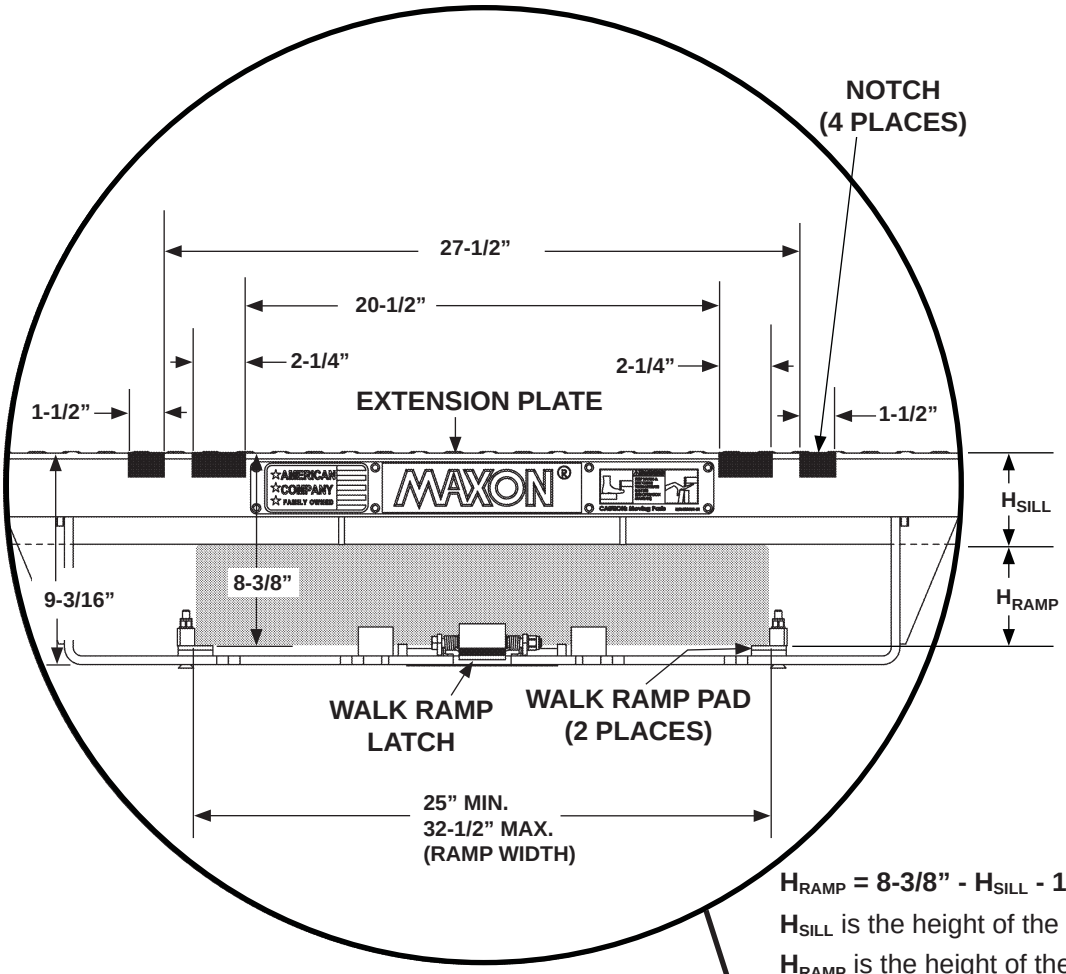
VEHICLE REQUIREMENTS - Continued

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

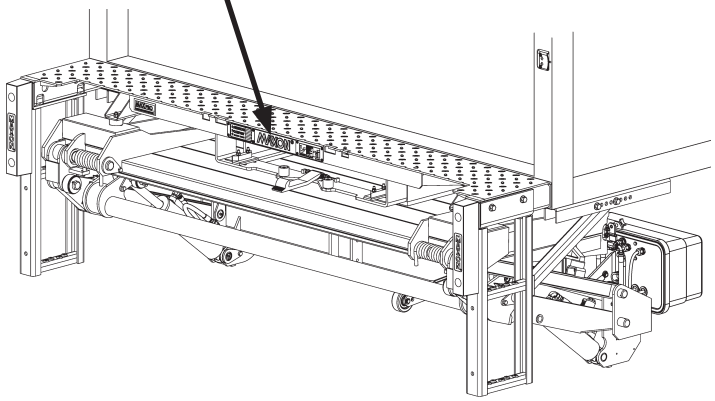


H_{RAMP} = 8-3/8” - H_{SILL} - 1/8” clearance

H_{SILL} is the height of the vehicle body sill.

H_{RAMP} is the height of the ramp (max).

WALK RAMP BOX CLEARANCE DIMENSIONS (FOR REFERENCE ONLY) FIG. 11-1B



GPTWR LIFTGATE WITH WALK RAMP BOX FIG. 11-1A

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VEHICLE REQUIREMENTS - Continued

⚠ WARNING

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.

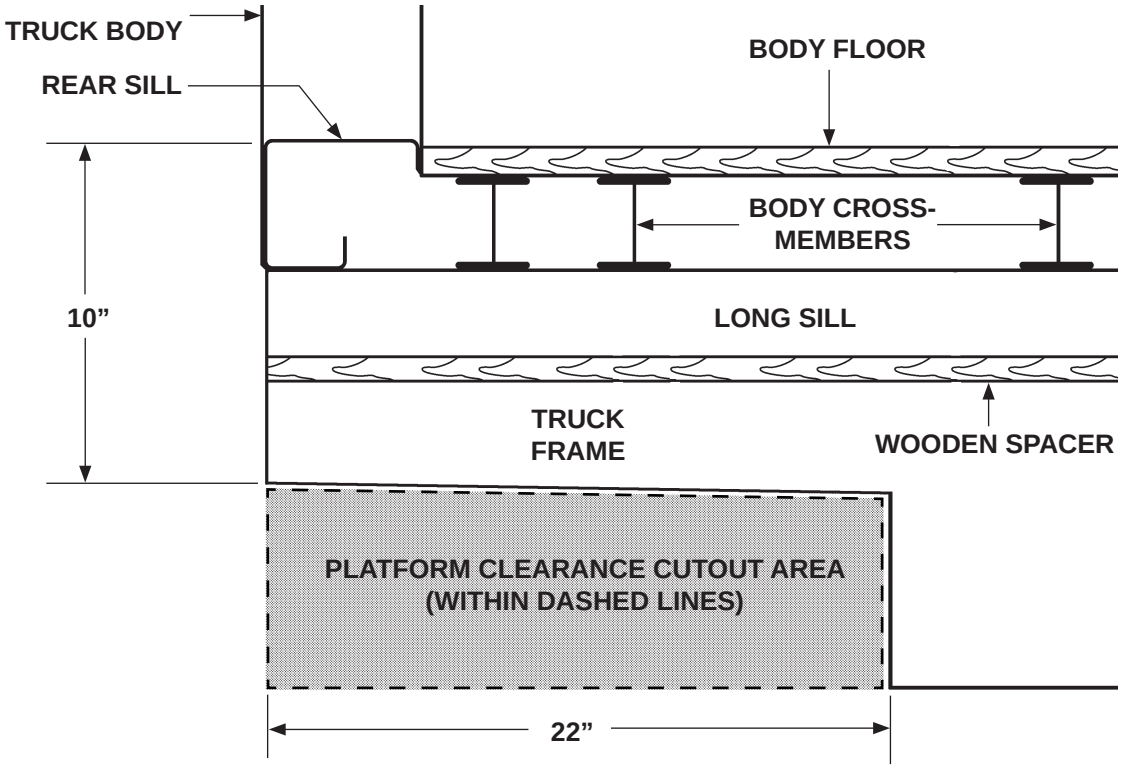
CAUTION

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**.



VEHICLE FRAME CUTOUT FOR GPTWR PLATFORM CLEARANCE (TRUCK FRAME IS SHOWN)
FIG. 12-1

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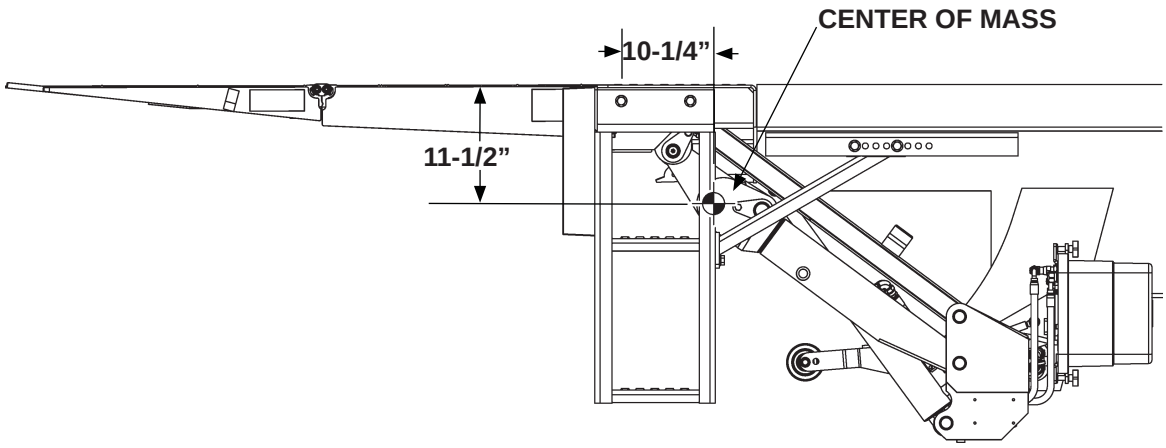
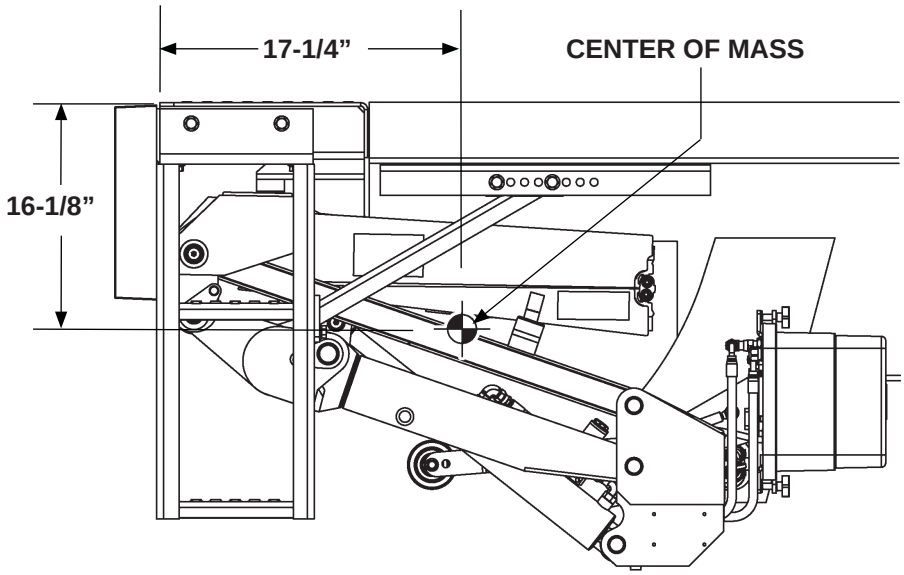
CENTER OF MASS



GPTWR-25 & GPTWR-3 CENTER OF MASS
(PLATFORM AT BED HEIGHT)
FIG. 13-1



GPTWR-25 & GPTWR-3 CENTER OF MASS
(STOWED POSITION)
FIG. 13-2

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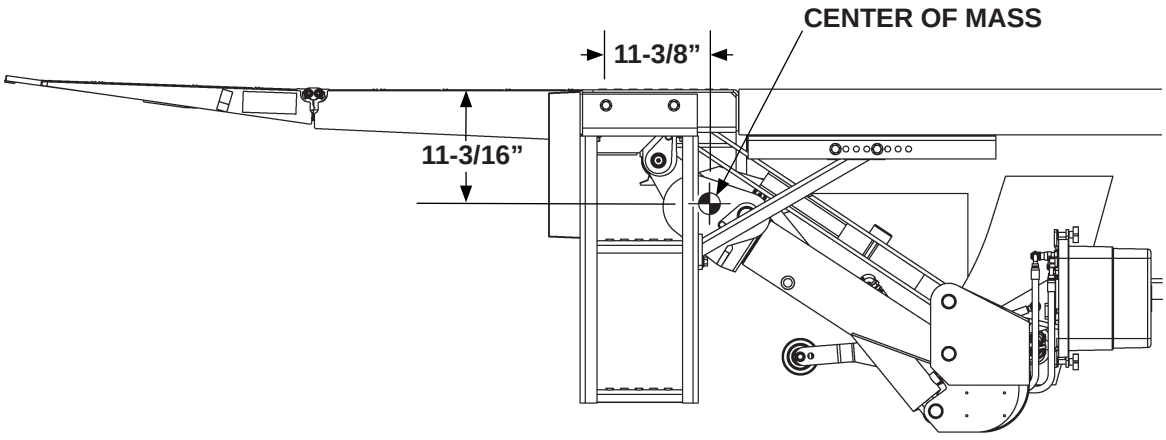
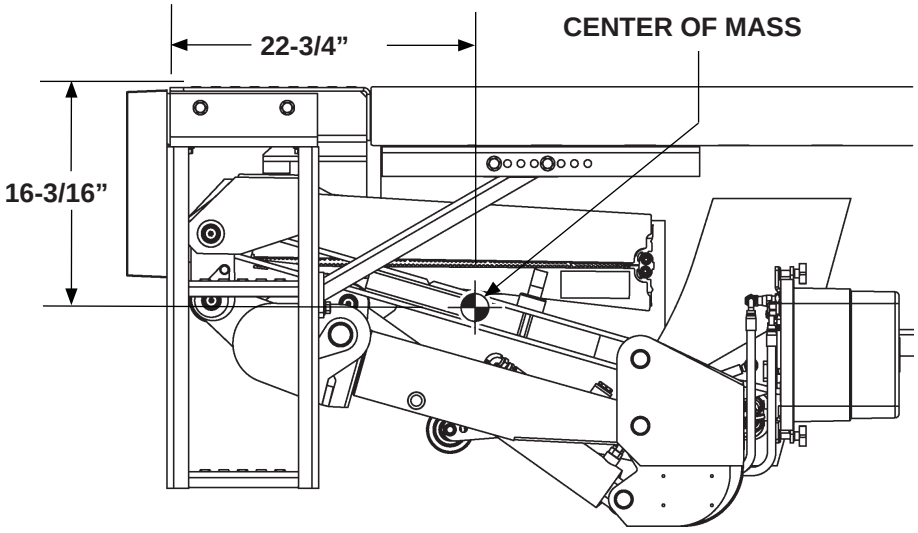
CENTER OF MASS - Continued



GPTWR-4 & GPTWR-5 CENTER OF MASS
(PLATFORM AT BED HEIGHT)
FIG. 14-1



GPTWR-4 & GPTWR-5 CENTER OF MASS
(STOWED POSITION)
FIG. 14-2

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STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE

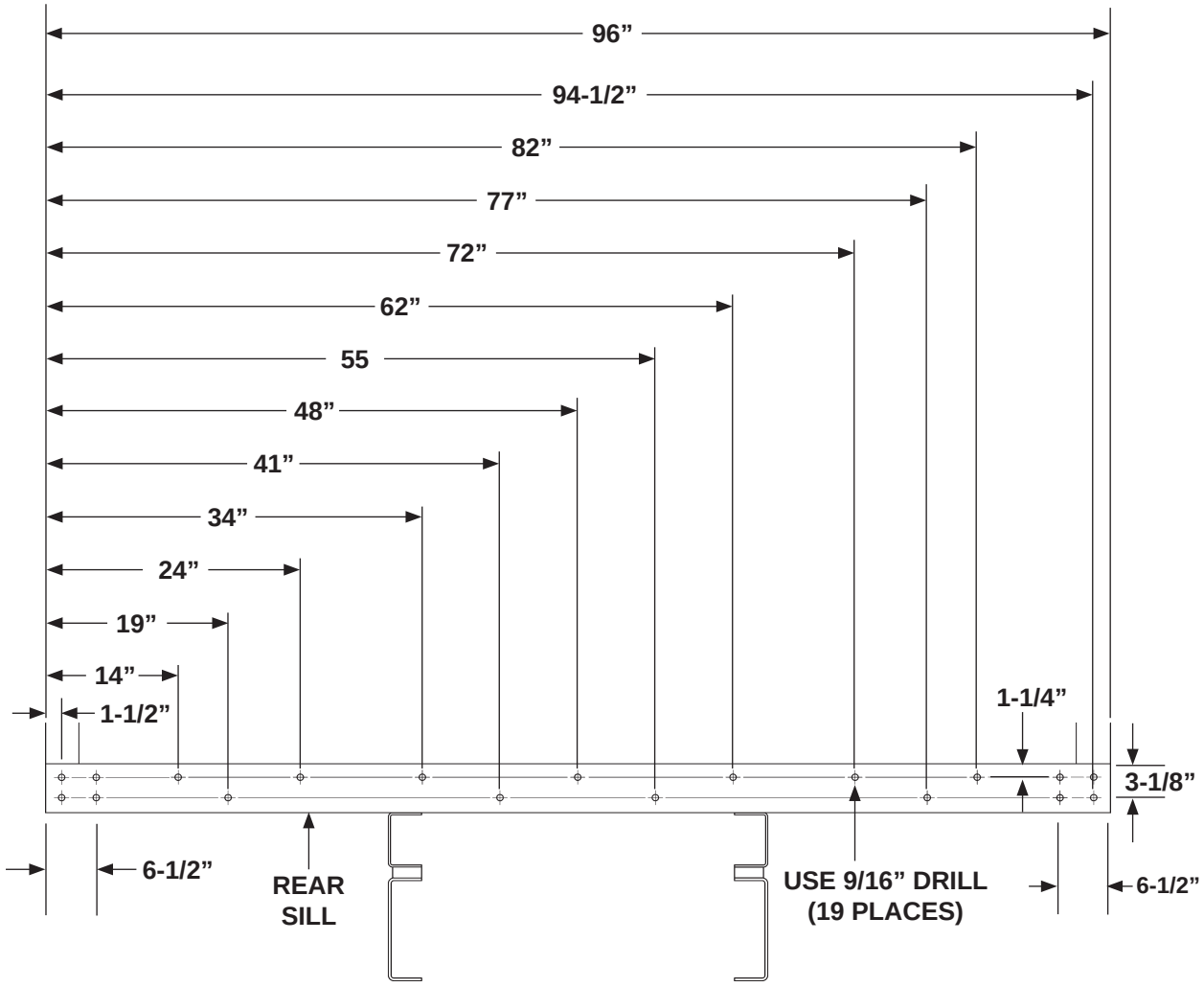
CAUTION

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. 15-1 and 16-1**.



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

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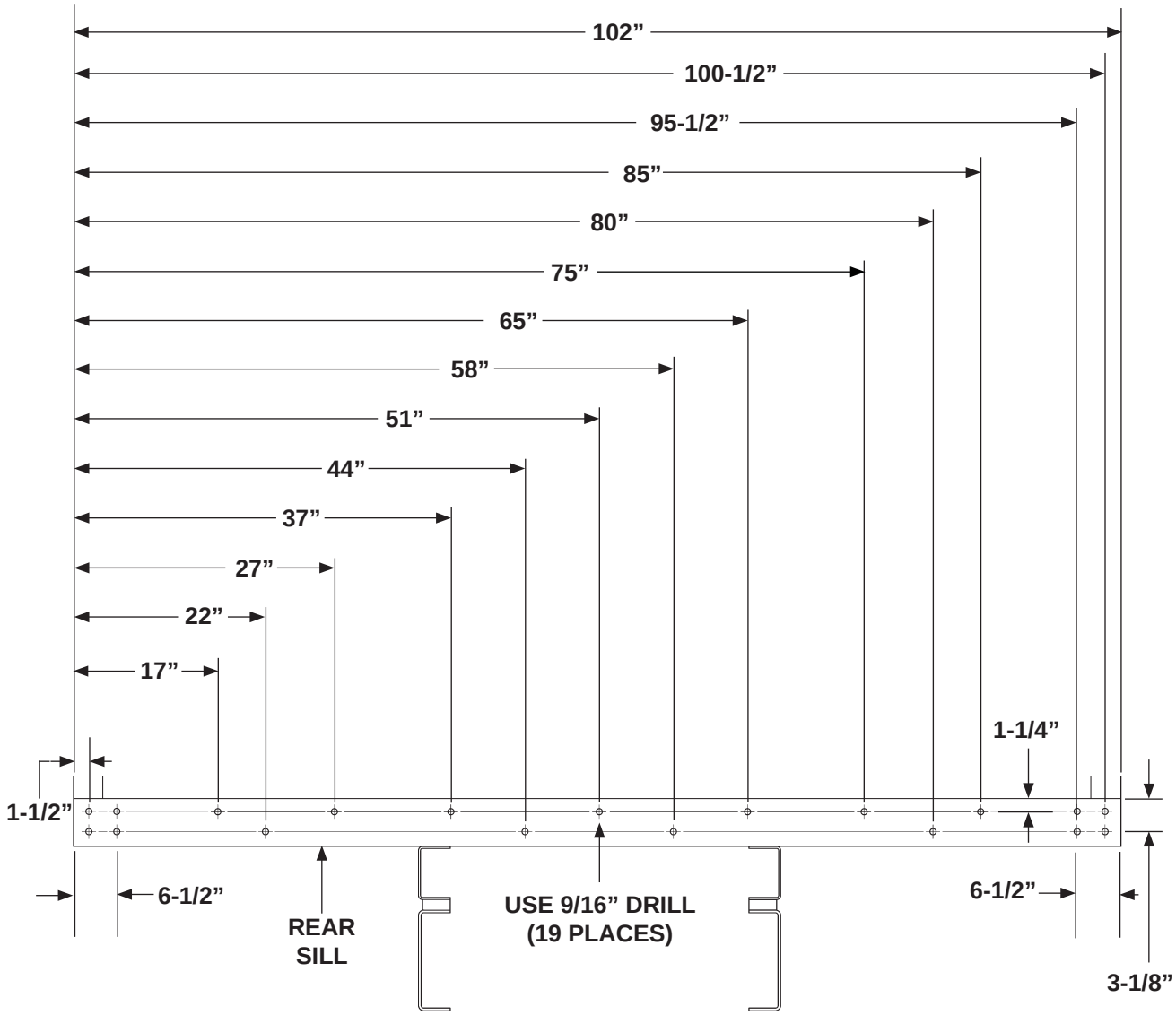
STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE - Continued



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

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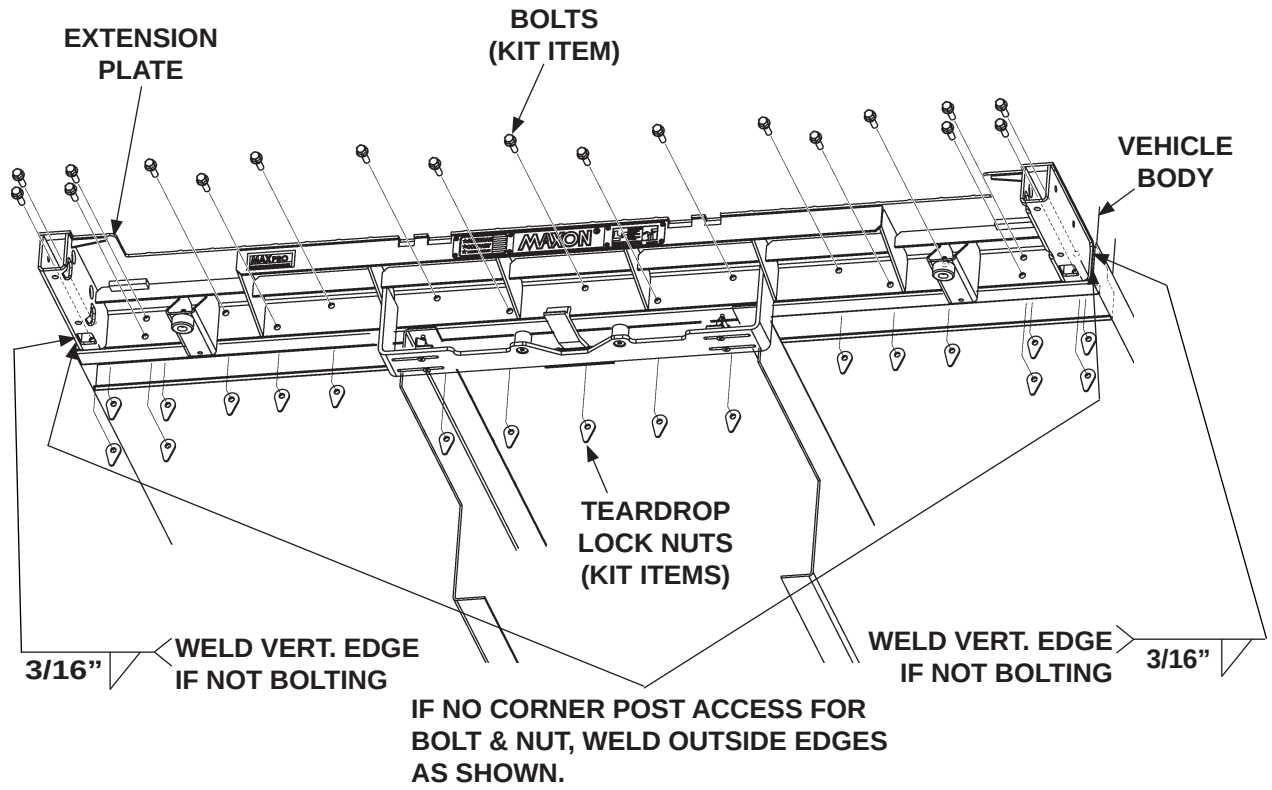
STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE - Continued

CAUTION

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

NOTE: Do not tighten extension plate bolts and lock nuts until:
- All the bolts and lock nuts are in place.
- Mating surfaces of extension plate and rear sill are made flat as possible.
- Top of extension plate is flush with top of rear sill.

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**.



BOLTING EXTENSION PLATE (96" WIDE EXTENSION PLATE SHOWN)
FIG. 17-1

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

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STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE - Continued

WELD EXTENSION PLATE (ALTERNATE METHOD)

⚠ WARNING

Welding on galvanized parts gives off especially hazardous fumes. To minimize hazard remove galvanizing from weld area, provide adequate ventilation, and wear suitable respirator.

CAUTION

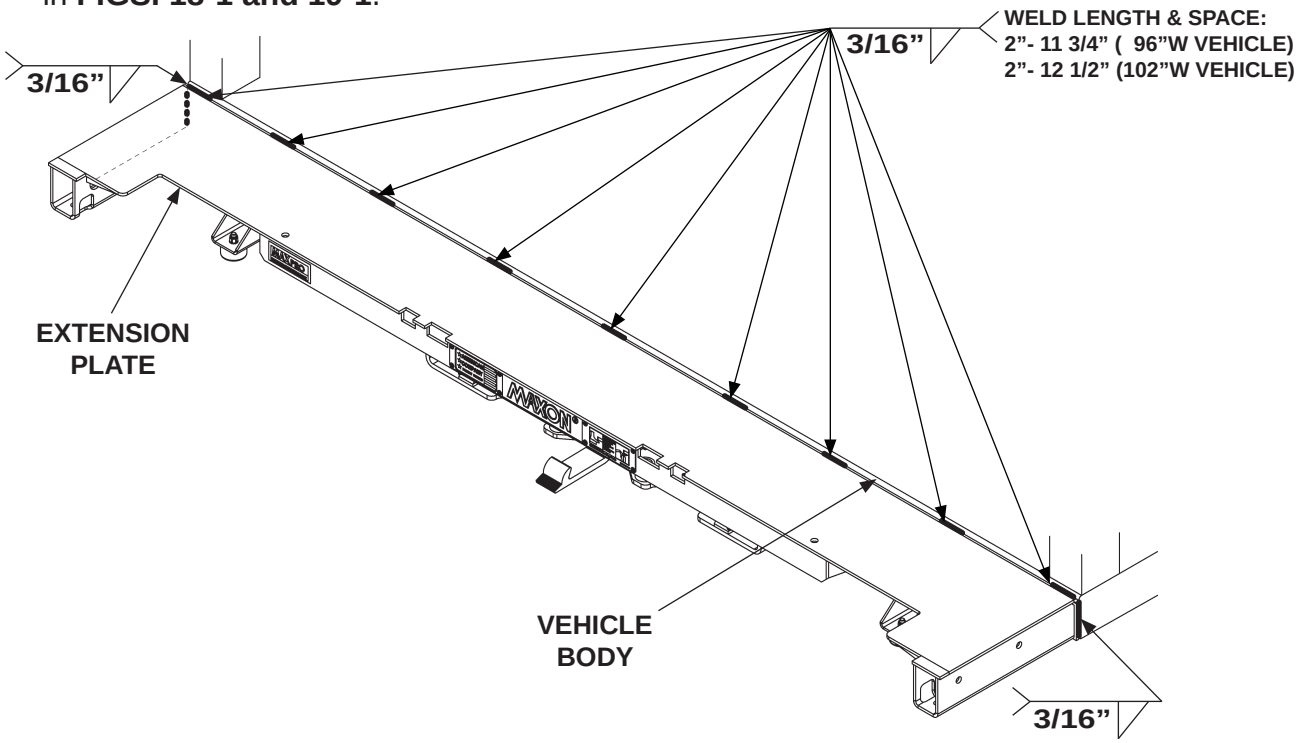
To preserve the corrosion-resistant properties of the galvanized finish, MAXON recommends bolting the galvanized extension plate to vehicle.

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.

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



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

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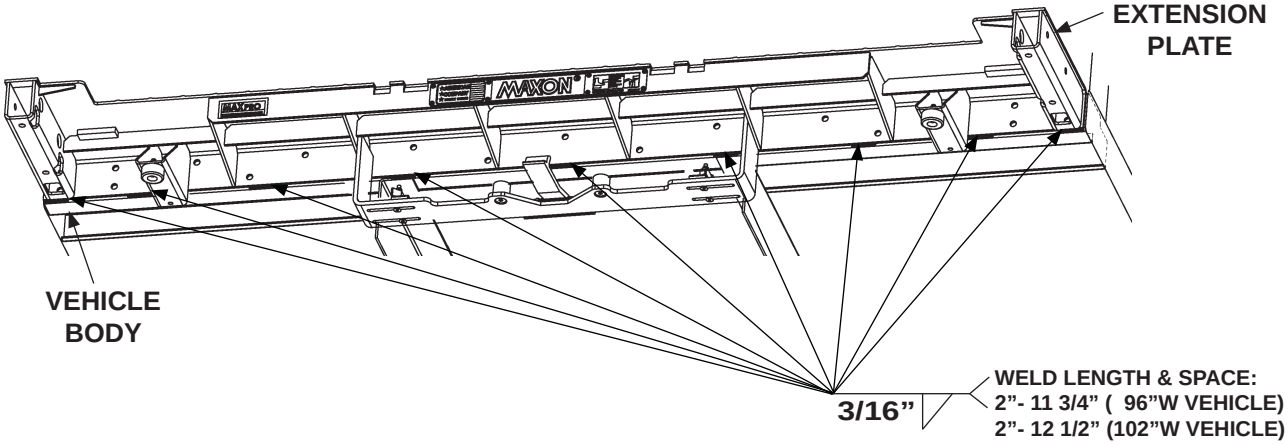
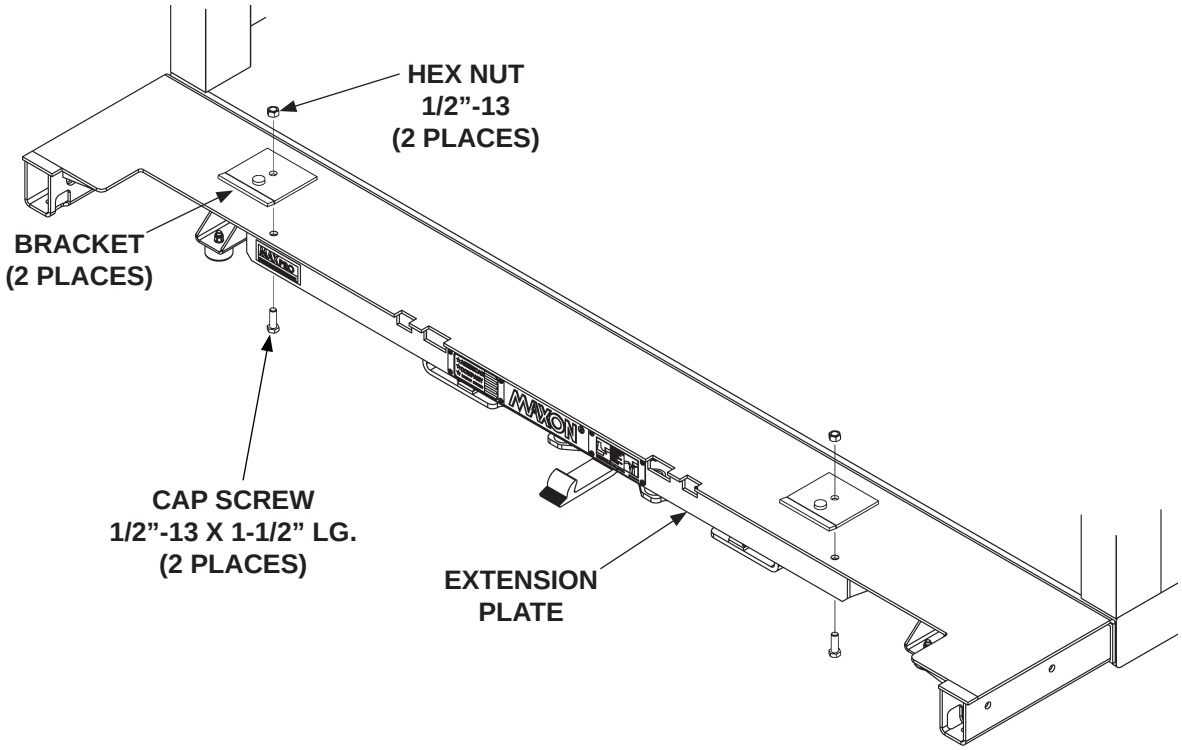
STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE - Continued



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 ¾” 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.



BOLTING ON INSTALLATION BRACKETS
FIG. 19-2

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STEP 2 - WELD LIFTGATE TO VEHICLE

1. Remove split looms from mounting plates **(FIG. 20-1)**. (Split looms will be reinstalled later after final welding.)

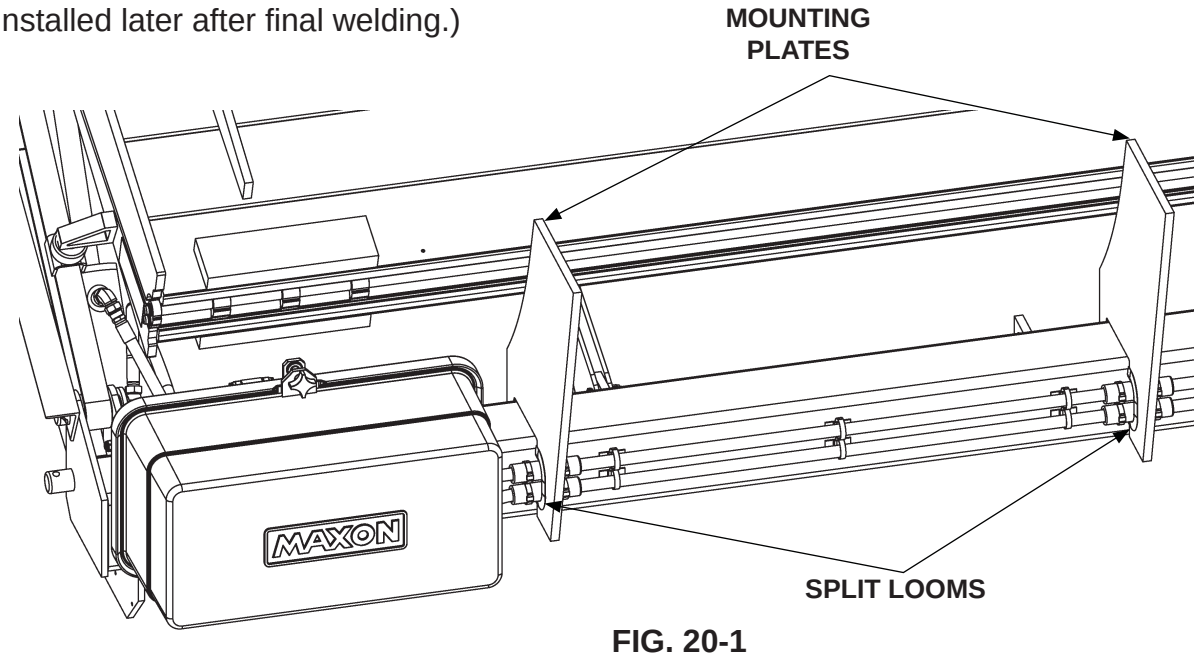
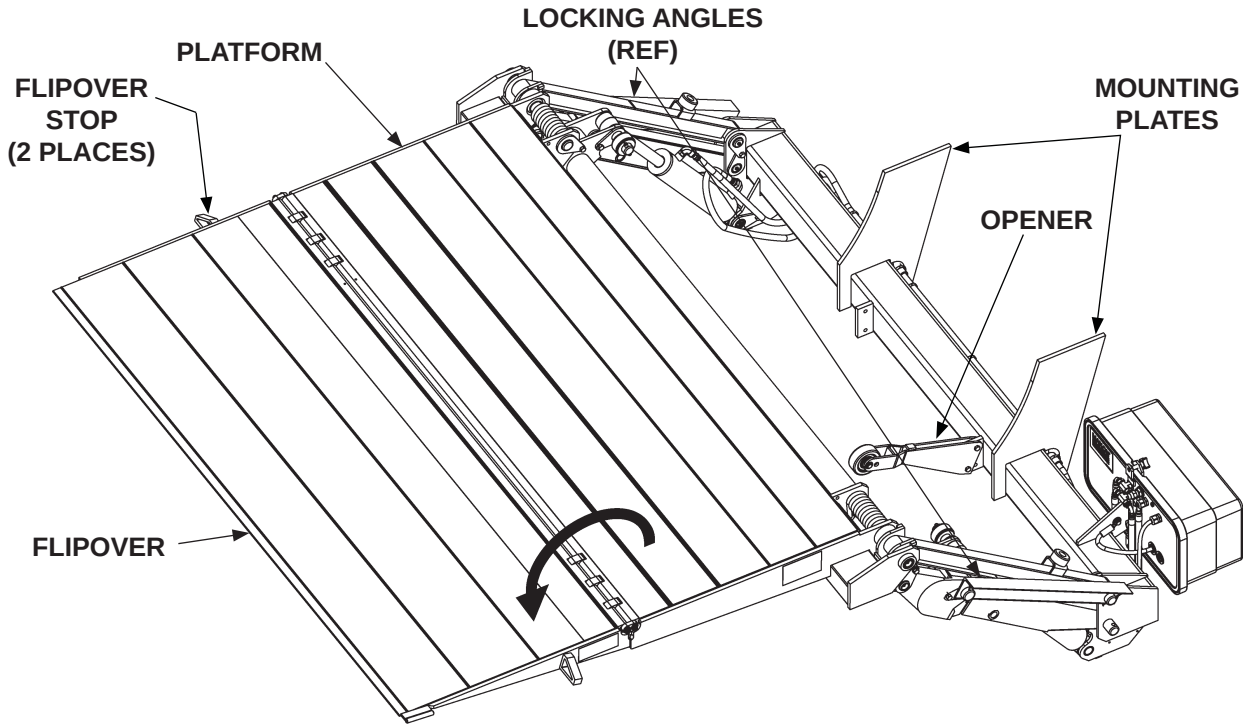


FIG. 20-1

2. Unfold the platform and flipover **(FIG. 20-2)**.

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



PLATFORM & FLIPOVER UNFOLDED
FIG. 20-2

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STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

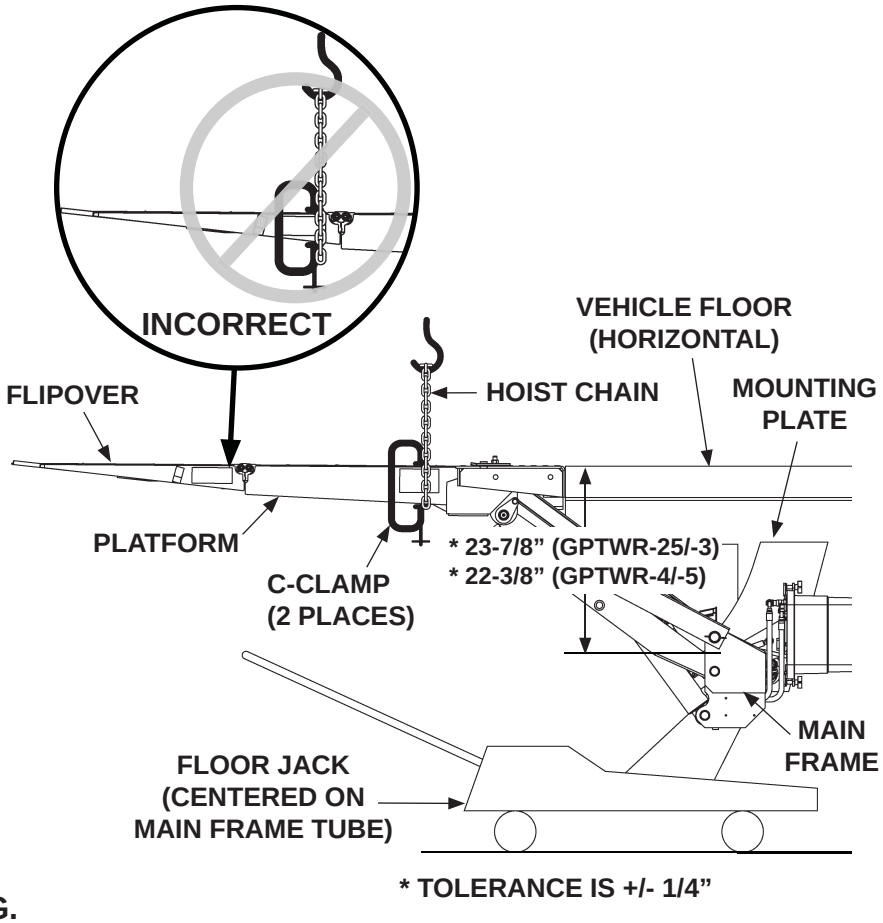
⚠ CAUTION

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.

4. Make sure hoist is not set up the incorrect way **(FIG. 21-1)**. Place a "C"-clamp on each side of platform **(FIG. 21-1)** to prevent hoist chain from slipping off platform. Wrap chain around platform **(FIG. 21-1)**.



CORRECT WAY TO HOIST LIFTGATE
FIG. 21-1

5. Hoist the Liftgate. Then, place floor jack under center of main frame **(FIG. 21-1)**. Jack the Liftgate into position. Make sure vehicle floor is horizontal. Maintain distance between floor and top of main frame as shown in **FIG. 21-1**.

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STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

⚠ WARNING

Painted Liftgates are shipped from factory with mounting plates that are only tack welded to main frame. Weld painted mounting plates as shown in illustration before operating Liftgate.

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

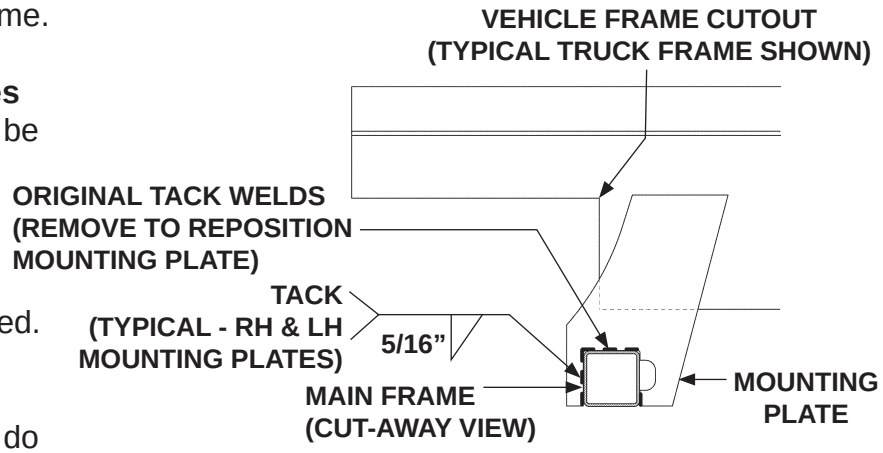
To protect the original paint system if equipped, a 3" wide area of paint must be removed from all sides of the weld area before welding.

NOTE: Mounting plates on galvanized Liftgates are fully welded to main frame at the factory. Galvanized mounting plates are suitable for 34-1/4" vehicle frame width, and should not be removed and repositioned. Painted mounting plates are tack welded and can be repositioned.

6. Check if both mounting plates are **painted or galvanized**, and if they line up with the vehicle frame.

- **Painted mounting plates** are tack-welded and can be repositioned. Do step 6 if painted.
- **Galvanized mounting plates** are fully welded and cannot be repositioned. Skip step 6 if galvanized.

If painted mounting plates do not line up, remove the tack welds from one mounting plate **(FIG. 22-1)**. Make sure Liftgate stays centered on vehicle. Reposition the mounting plate against vehicle frame. Tack weld as shown in **FIG. 22-1**. Repeat for second mounting plate (reposition and tack weld).



REPOSITIONING MOUNTING PLATE (PAINTED PLATE ON RH SIDE SHOWN) FIG. 22-1

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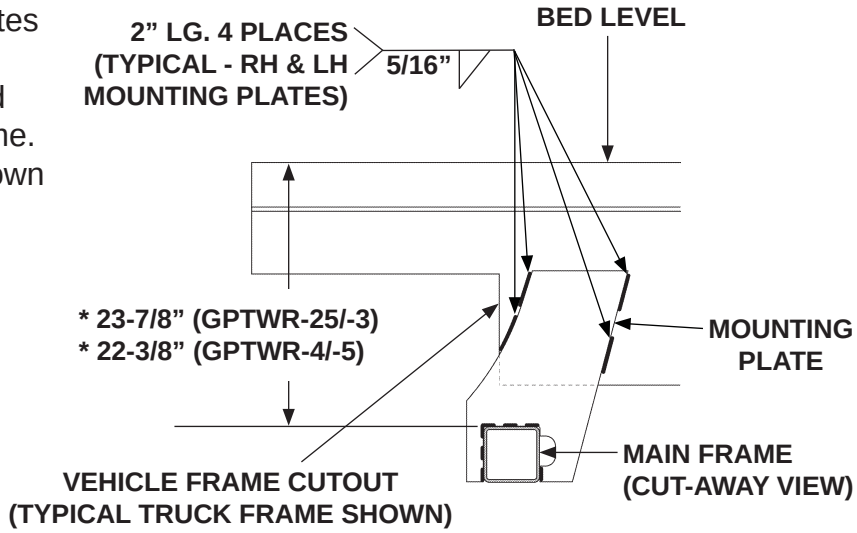
STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

NOTE: Weld both mounting plates to vehicle frame before welding mounting plates to main frame.

7. Clamp both mounting plates to vehicle frame. Check the distance between bed level and top of main frame. Maintain the distance shown in **FIG. 23-1**.



*** TOLERANCE IS +/- 1/4"**

WELD TO VEHICLE FRAME AND MAIN FRAME
(RH SIDE SHOWN)
FIG. 23-1

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

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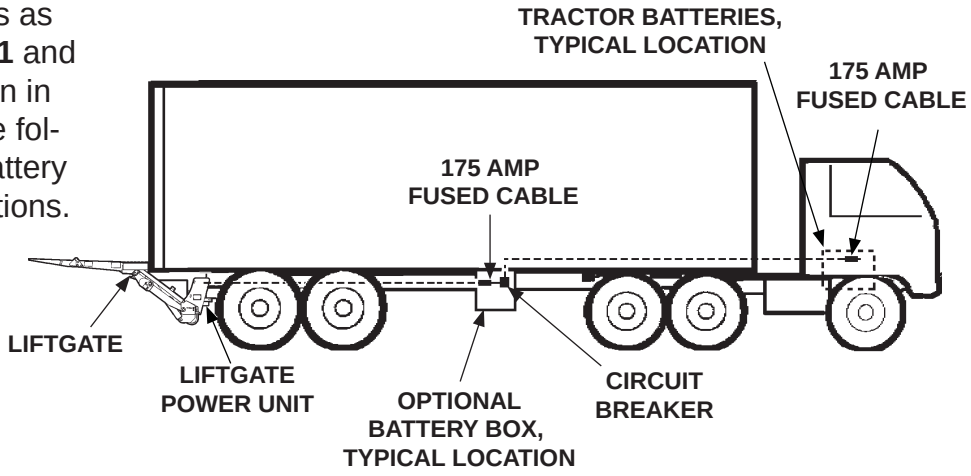
STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED)

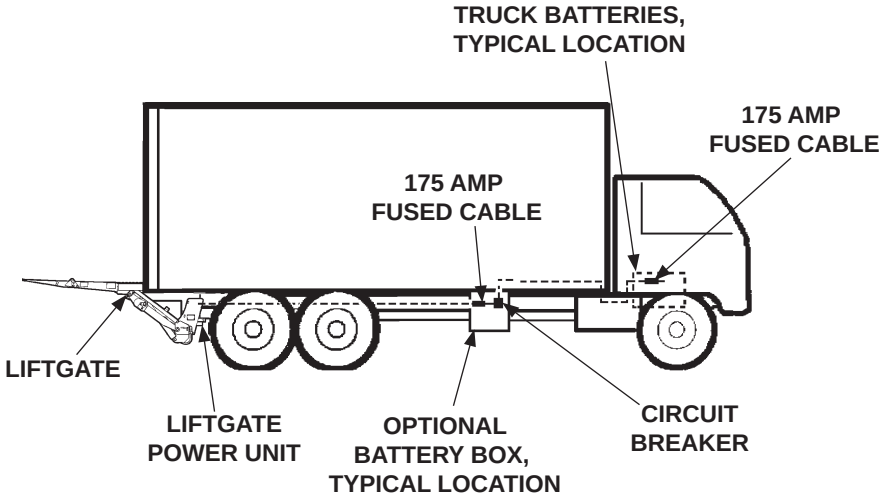
RECOMMENDED CONFIGURATION

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

1. Liftgate and optional battery box are typically installed on trailers as shown in **FIG. 24-1** and on trucks as shown in **FIG. 24-2**. See the following page for battery and cable connections.



RECOMMENDED LIFTGATE & OPTIONAL BATTERY BOX INSTALLATION ON TRAILER
FIG. 24-1



RECOMMENDED LIFTGATE & BATTERY BOX INSTALLATION ON TRUCK
FIG. 24-2

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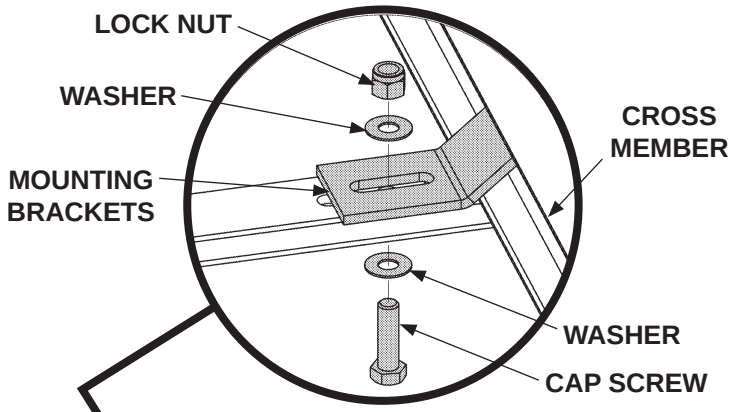
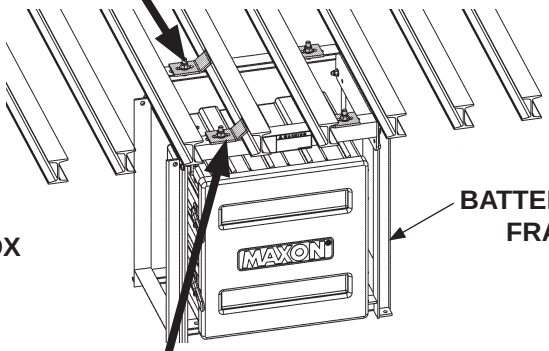
STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

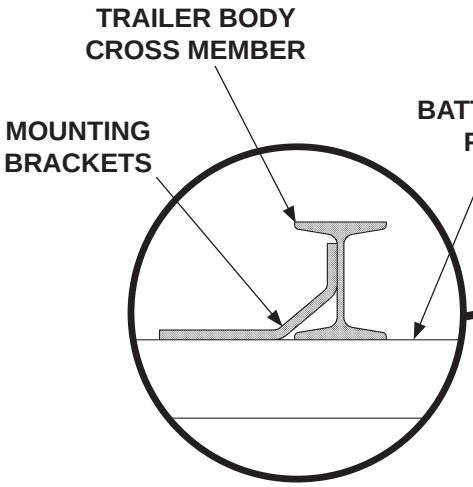
2. Select holes on top of battery box frame to align mounting brackets flush to cross members. Refer to **FIGS. 25-1A & 25-1B** for trailers and **FIG. 25-2** for trucks. Bolt mounting brackets to battery box frame as shown in **FIG. 25-1C**. Torque each bolt and lock nut to **85-128 lb-ft**.



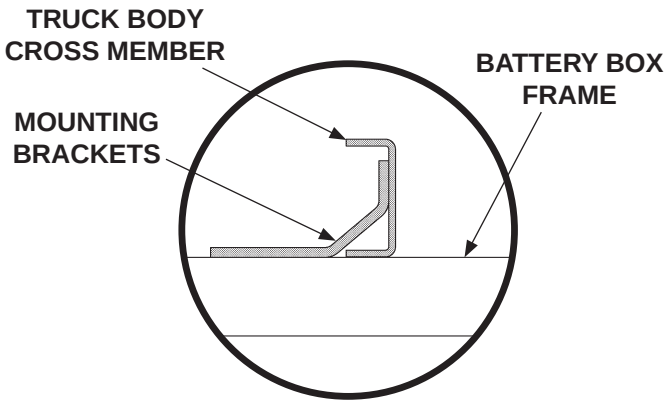
BOLTING BRACKETS (8 PLACES) FIG. 25-1C



ALIGNING BATTERY BOX FRAME (TRAILER SHOWN) FIG. 25-1A



FLUSH BRACKETS FOR TRAILERS (8 PLACES) FIG. 25-1B



FLUSH BRACKETS FOR TRUCKS (8 PLACES) FIG. 25-2

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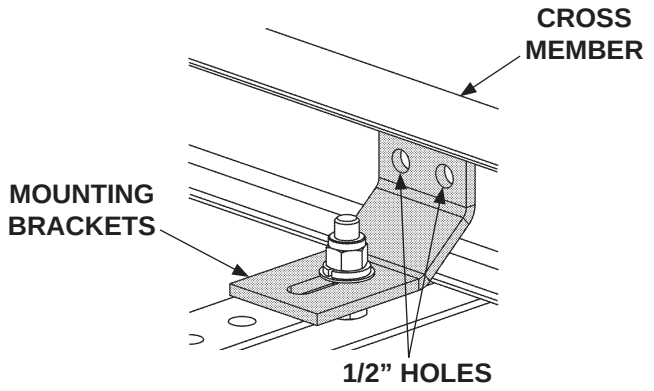
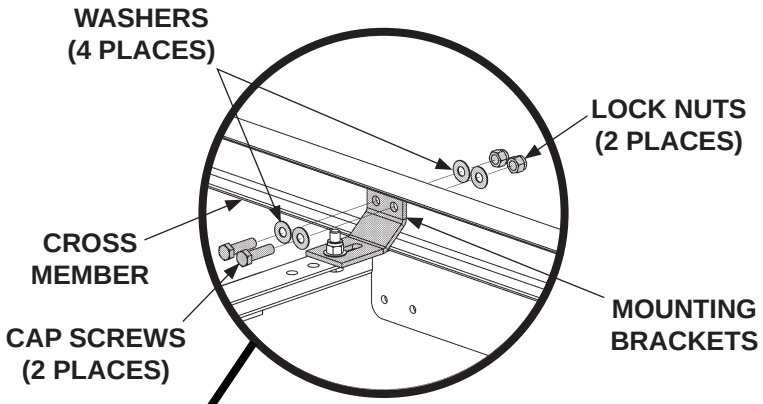
STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

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

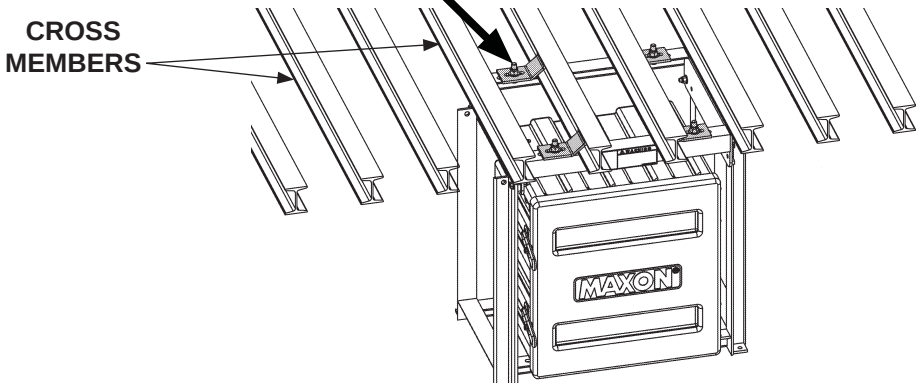
3. Using mounting brackets as a template mark and drill holes through cross members **(FIG. 26-1)**. Bolt mounting brackets to cross members as shown in **FIGS. 26-2A and 26-2B**. Torque bolts and lock nuts to **85-128 lb-ft**.



MARK AND DRILL BRACKET HOLES
FIG. 26-1



BOLTING BRACKETS
(8 PLACES)
FIG. 26-2B



BOLTING BATTERY BOX FRAME
FIG. 26-2A

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

⚠ 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.

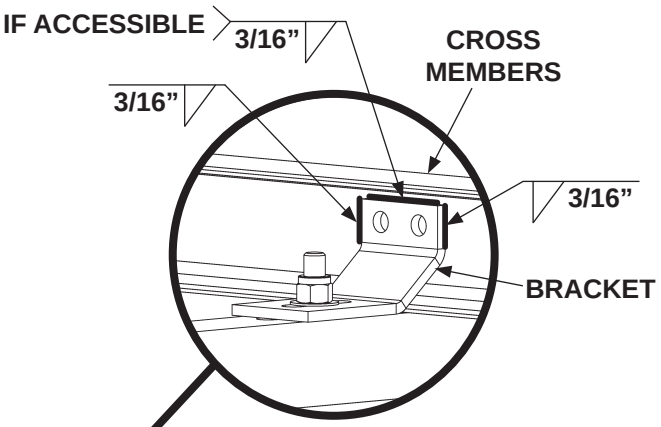
CAUTION

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

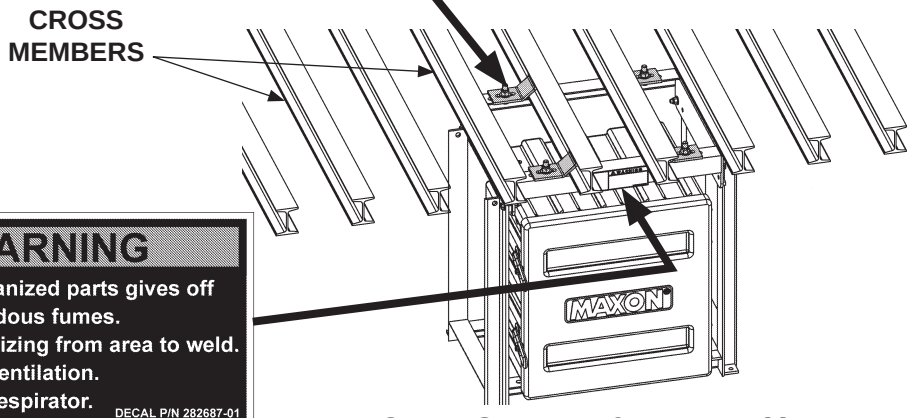
CAUTION

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

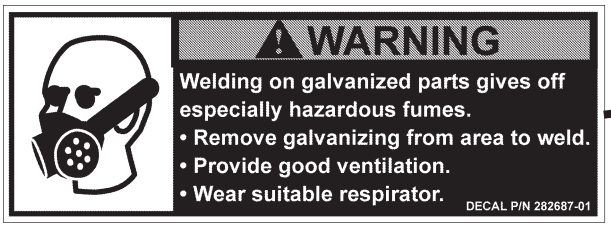
4. For galvanized frame, read warning decal shown in **FIGS. 27-1A and FIGS. 27-1B** before welding. Weld each bracket to cross members as shown in **FIGS. 27-1A and 27-1C**. Weld top of bracket if accessible.



WELDING BRACKETS (8 PLACES) FIG. 27-1C



BOLTING PUMP & BATTERY BOX FRAME FIG. 27-1A



WELDING GALVANIZED, WARNING DECAL FIG. 27-1B

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

⚠ WARNING

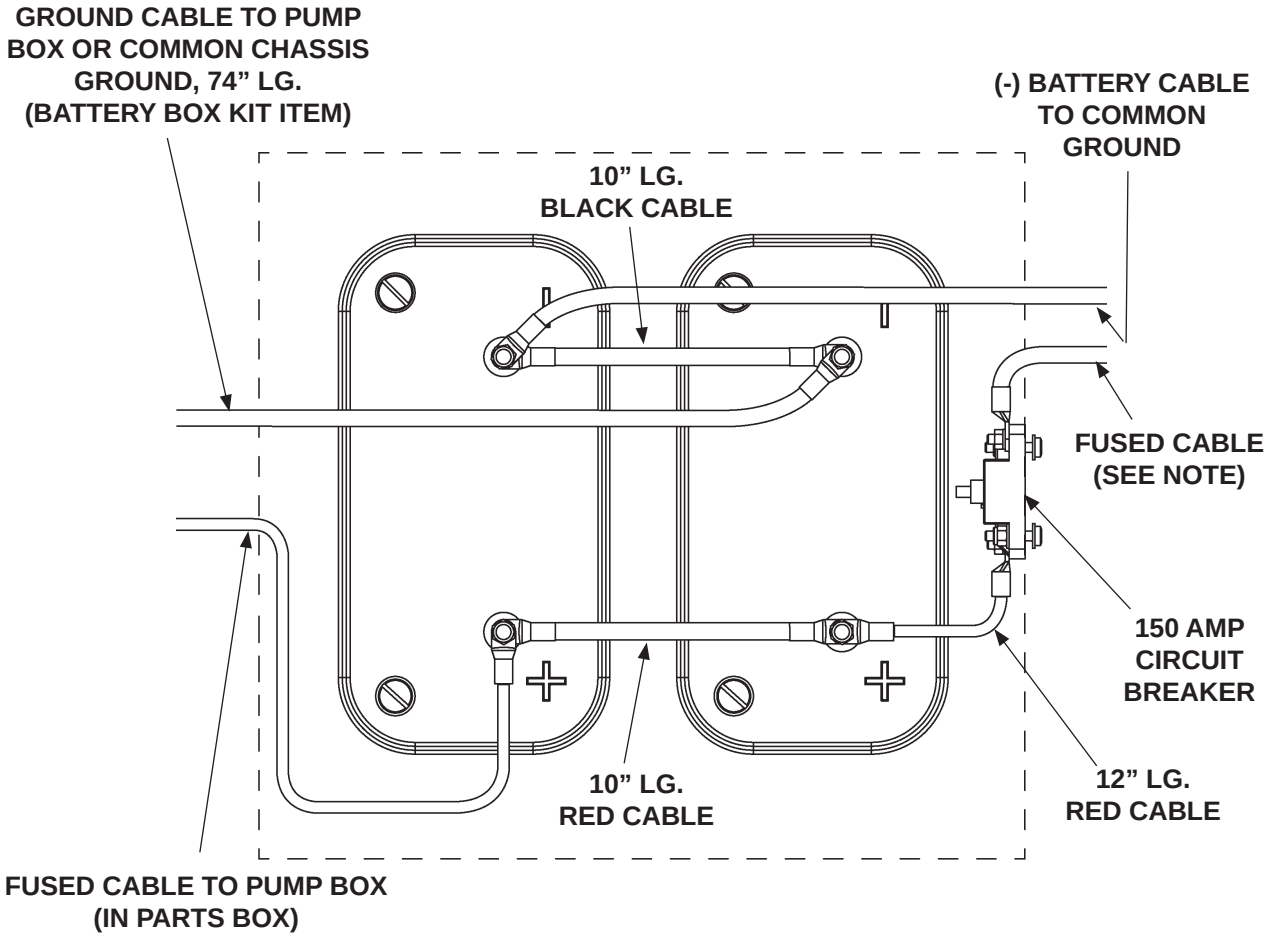
Remove all rings, watches and jewelry before doing any electrical work.

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.

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

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**.



12 VOLT BATTERY CONNECTIONS FOR 12 VOLT POWER
FIG. 28-1

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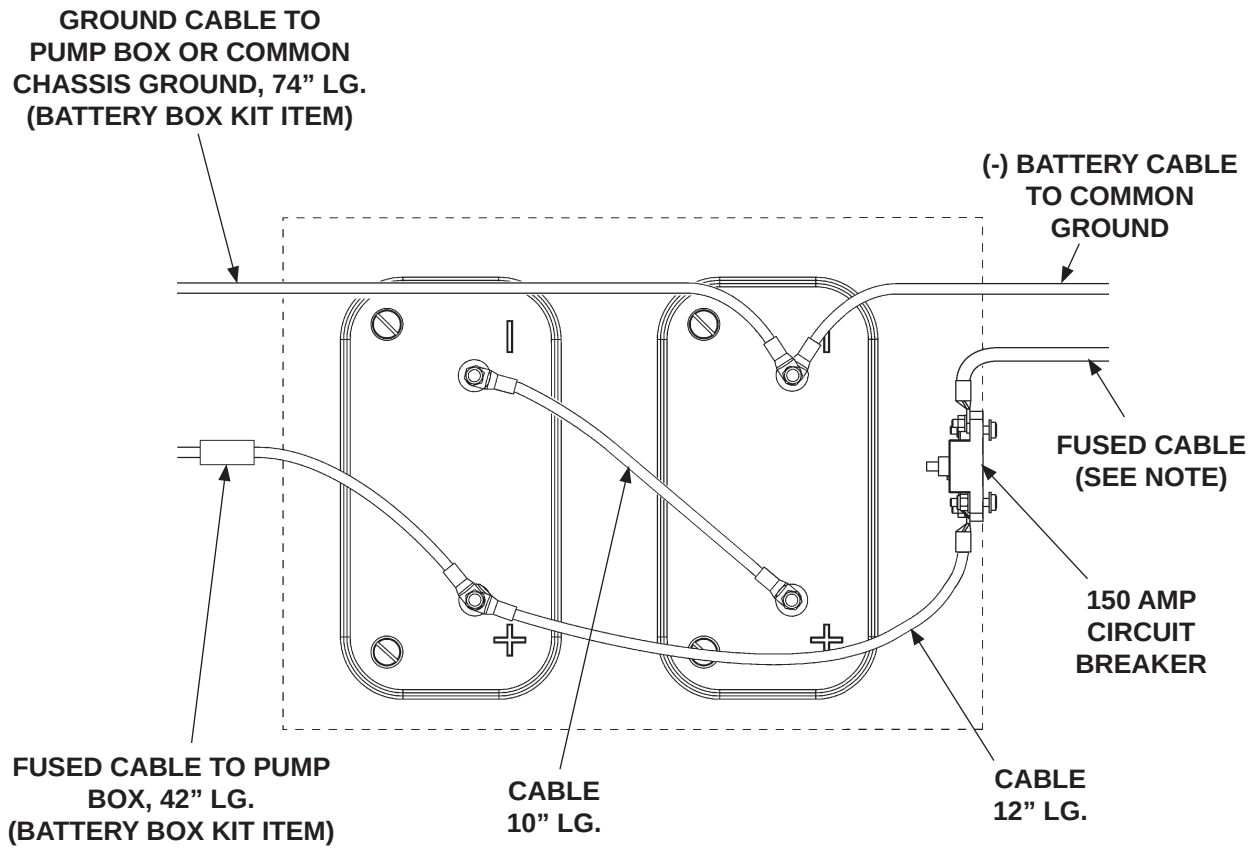
STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued



12 VOLT BATTERY CONNECTIONS FOR 24 VOLT POWER
FIG. 29-1

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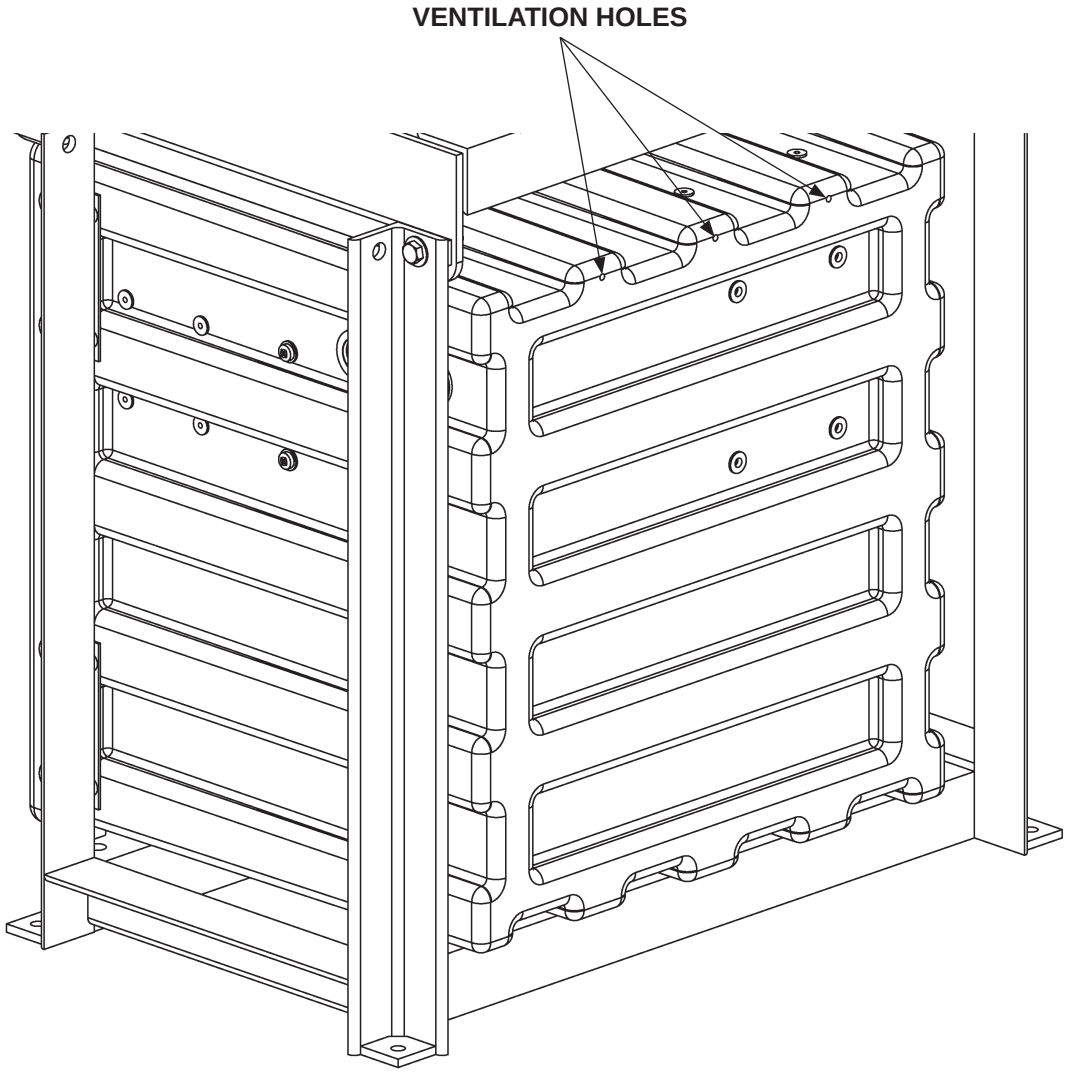
STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

⚠ WARNING

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



BATTERY BOX ASSEMBLY
(REAR VIEW SHOWN)
FIG. 30-1

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

BATTERY BOX ASSEMBLY

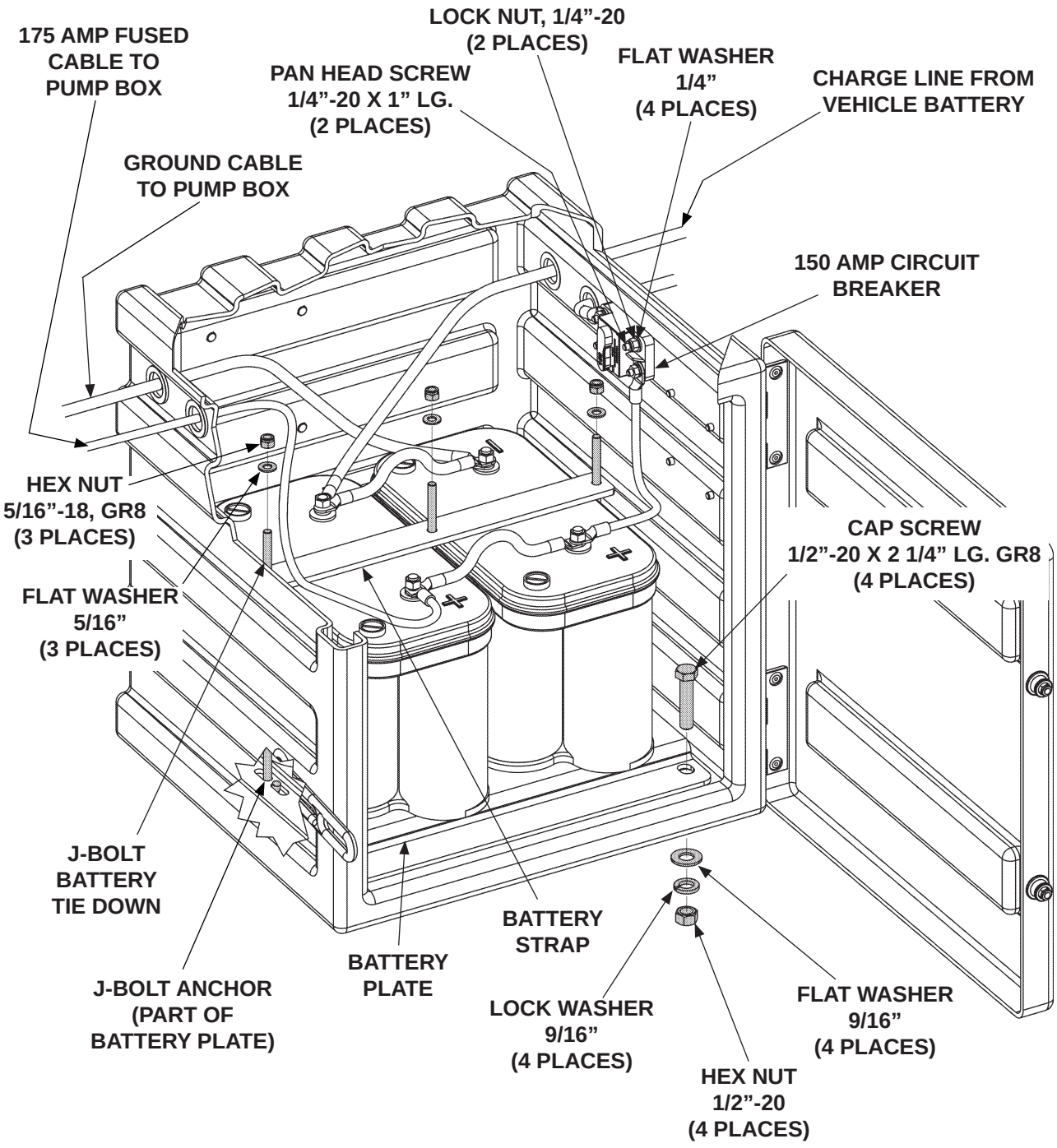

FIG. 31-1

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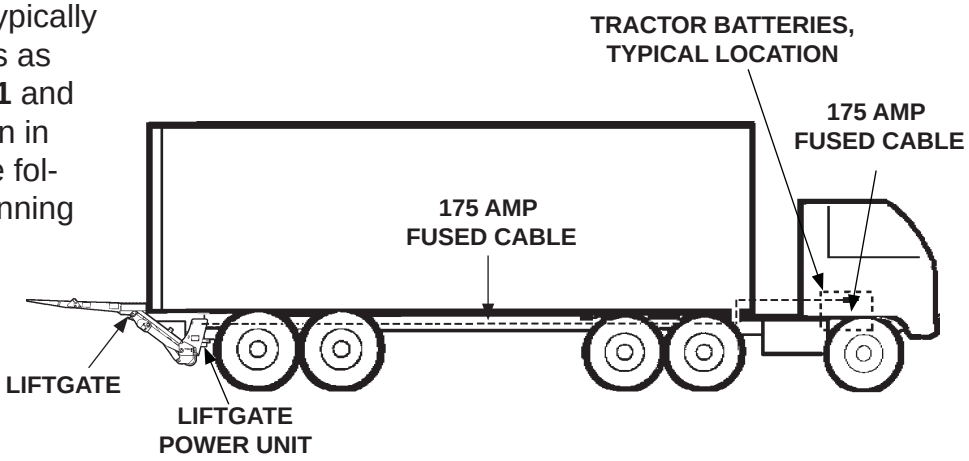
STEP 4 - RUN POWER CABLE

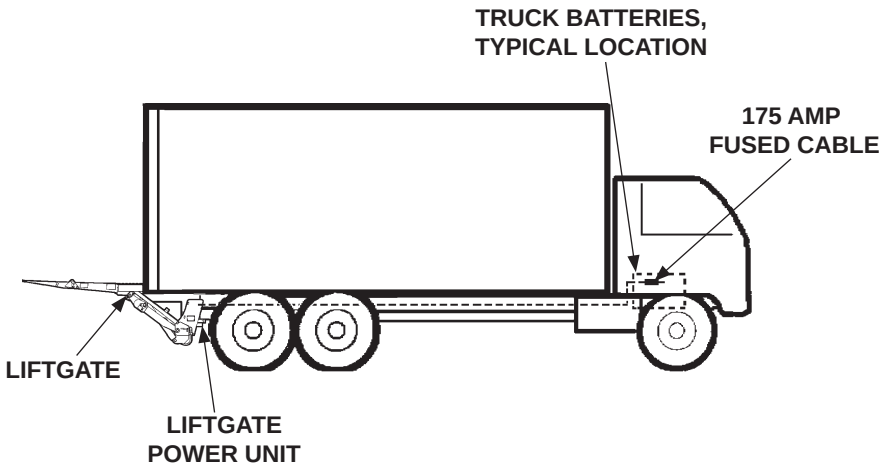
NOTE: Make sure the Liftgate power unit, and all batteries on the vehicle for the power unit, are connected correctly to a common chassis ground.

RECOMMENDED CONFIGURATION

1. Liftgate powered from truck batteries is typically installed on trailers as shown in **FIG. 32-1** and on trucks as shown in **FIG. 32-2**. See the following page for running the power cable.



RECOMMENDED LIFTGATE & POWER CABLE INSTALLATION ON TRAILER
FIG. 32-1



RECOMMENDED LIFTGATE & POWER CABLE INSTALLATION ON TRUCK
FIG. 32-2

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STEP 4 - RUN POWER CABLE - Continued

⚠ CAUTION

Never route an energized wire. Make sure the vehicle battery is disconnected. Always route electrical wires clear of moving parts, brake lines, sharp edges and exhaust systems. Avoid making sharp bends in wiring. 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.

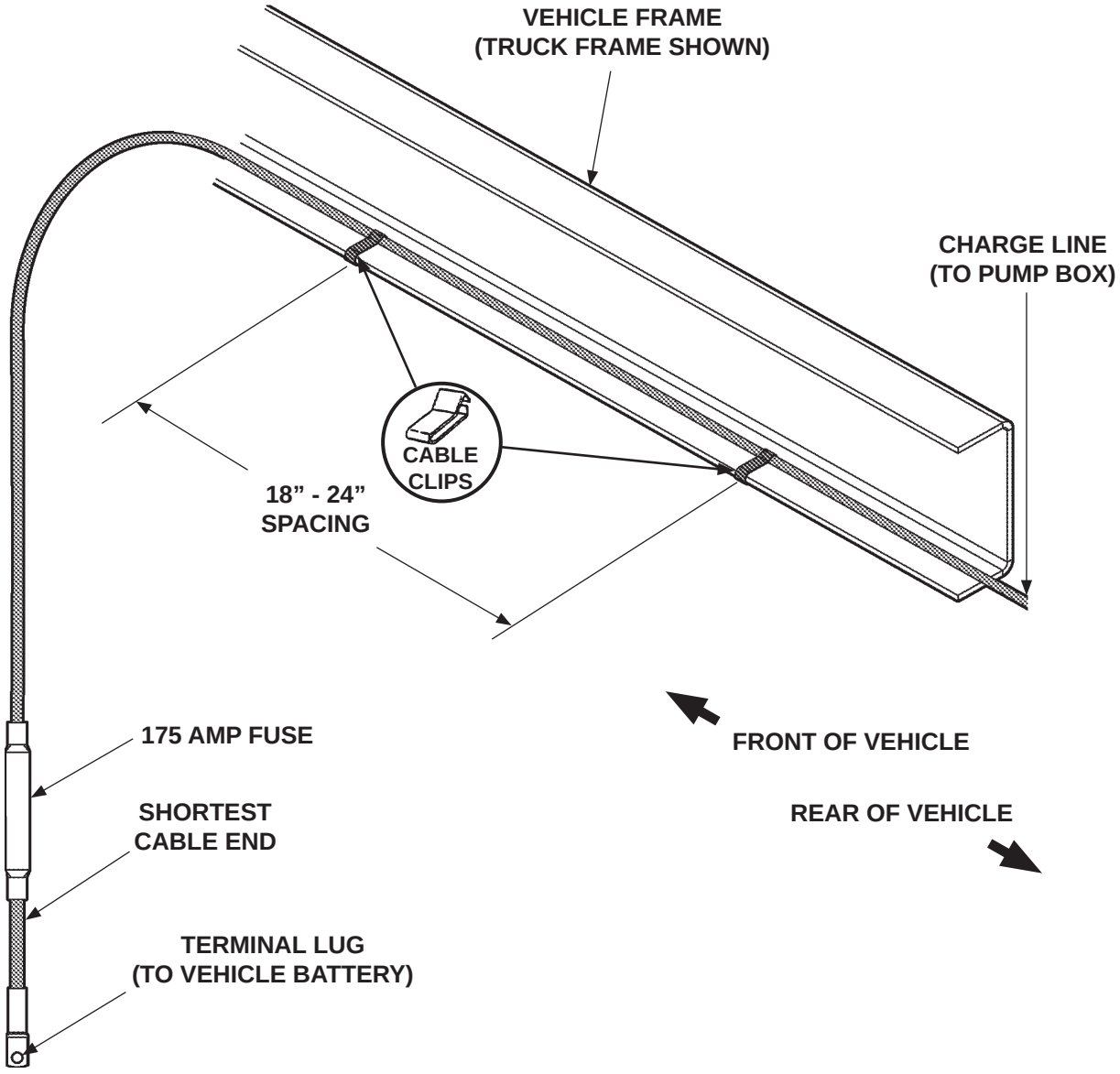

FIG. 33-1

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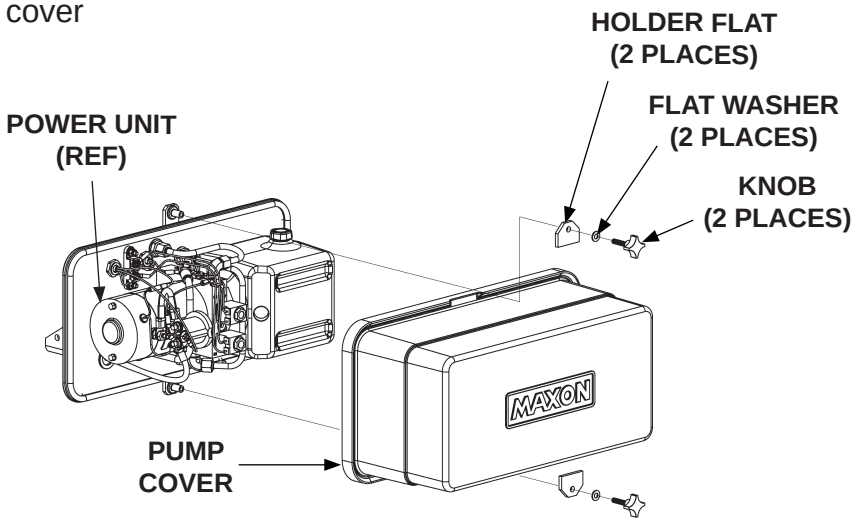
STEP 5 - CONNECT POWER CABLE

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



UNBOLTING 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 heatshrink 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 heatshrink tubing **(FIG. 34-2C)**.

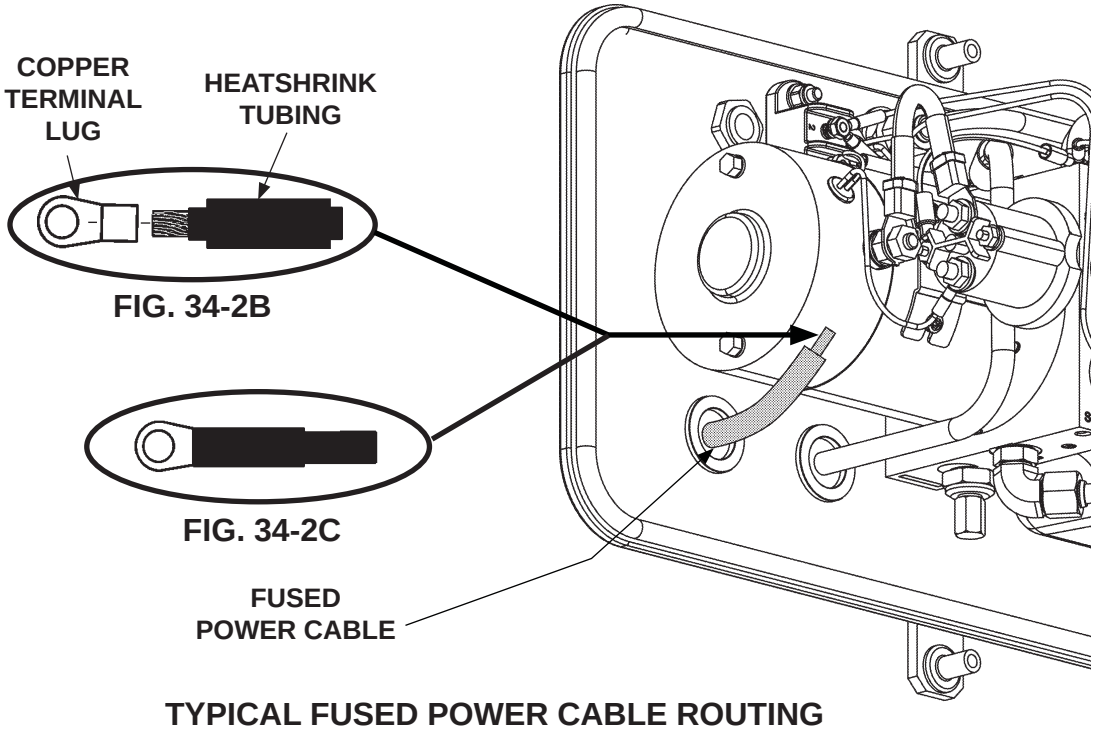


FIG. 34-2B

FIG. 34-2C

TYPICAL FUSED POWER CABLE ROUTING
FIG. 34-2A

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STEP 5 - CONNECT POWER CABLE - Continued

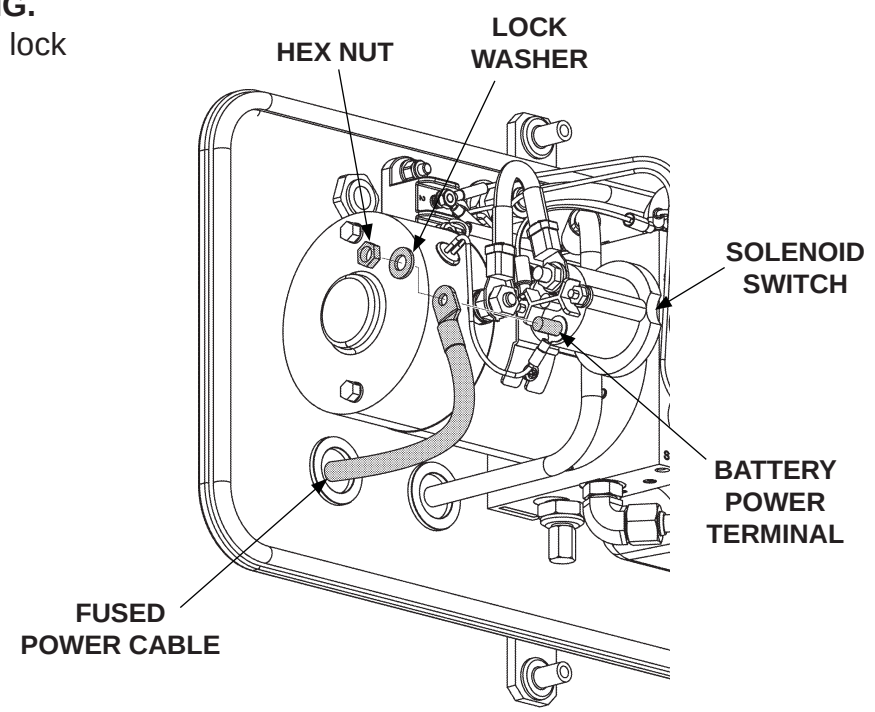
CAUTION

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: MAXON recommends using dielectric grease on all electrical connections.

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

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



TYPICAL FUSED POWER CABLE ELECTRICAL CONNECTION
FIG. 35-1

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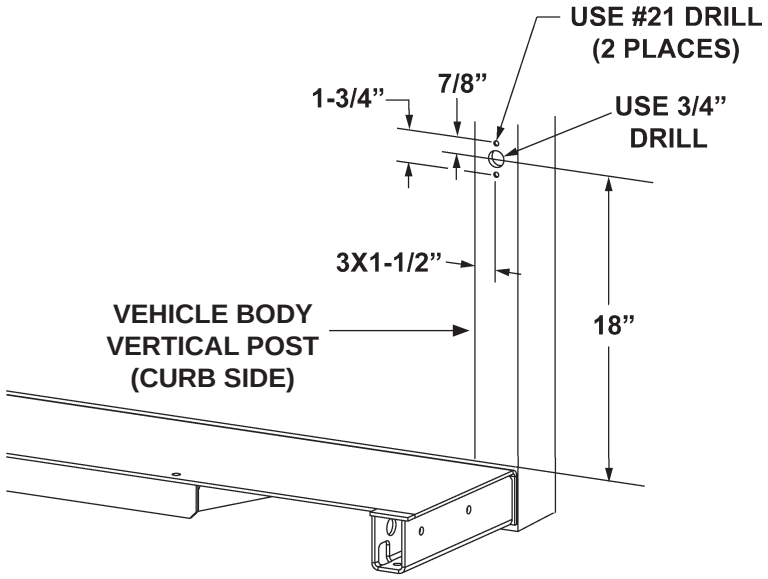
STEP 6 - INSTALL CONTROL SWITCH

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. 36-1**.



DRILLING MOUNTING HOLES
FIG. 36-1

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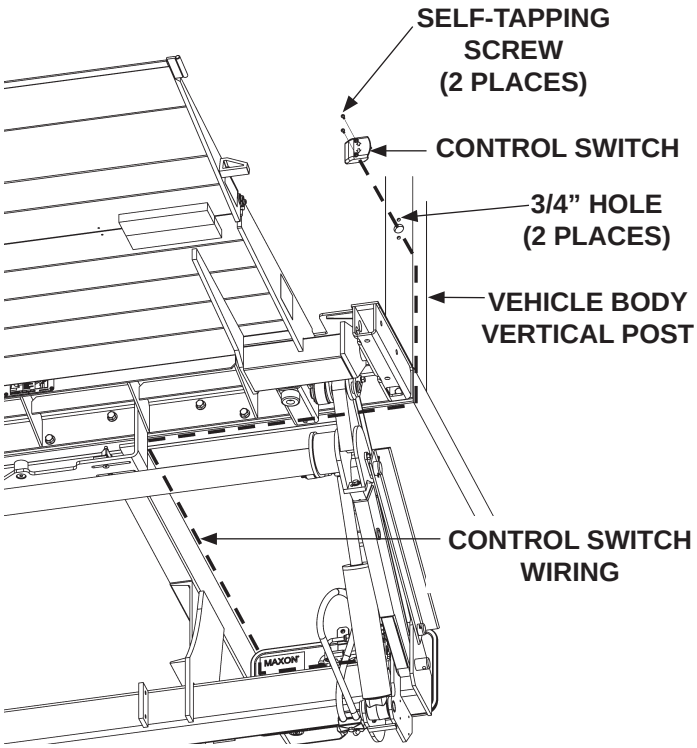
STEP 6 - INSTALL CONTROL SWITCH - Continued

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

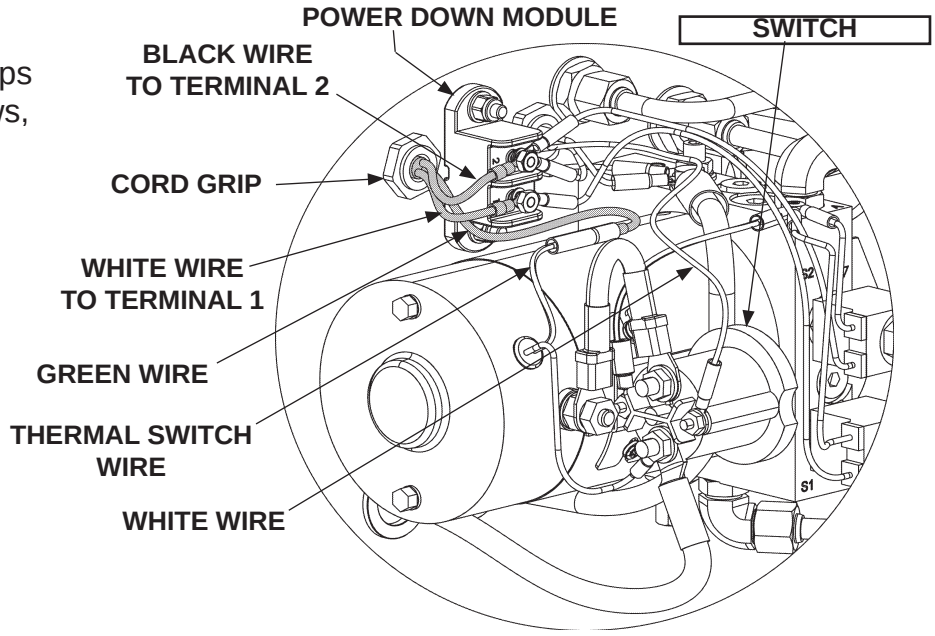
2. Insert control switch wiring into the 3/4" hole on the corner post and run it under the vehicle body to the pump assembly. **(See dashed line - FIG. 37-1.)** Insert switch wiring through cord grip on pump mounting plate (**FIG. 37-2)**. Connect the switch wiring to the pump assembly as shown in (**FIG. 37-2).**

3. Push control switch and cable back into the ¾" hole in the vertical post until control switch cover touches the post **(FIG. 37-1)**. Attach control switch to vertical post with 2 self-tapping screws **(FIG. 37-1)**.



ROUTING CONTROL SWITCH WIRING
FIG. 37-1

4. If necessary, use clamps and self-tapping screws, from installation parts bag, to secure switch cable to vehicle (**FIG. 37-1)**.



CONTROL SWITCH WIRING CONNECTIONS
FIG. 37-2

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STEP 7 - ADDING HYDRAULIC FLUID

CAUTION

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

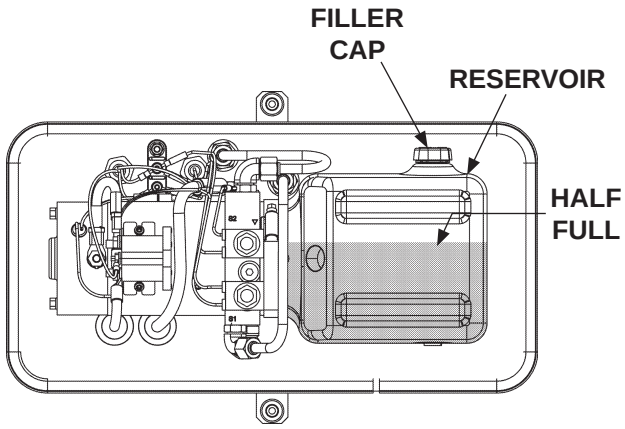
NOTE: Use correct grade of hydraulic fluid for your location.

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

See **TABLES 39-1 & 39-2** for recommended brands.

1. Check the hydraulic fluid level in reservoir as follows. With Liftgate stowed, or platform at vehicle bed height, level should be as shown in **FIG. 38-1**.

2. If needed, add fluid to the reservoir as follows. Pull out (no threads) filler cap **(FIG. 38-1)**. Fill the reservoir with hydraulic fluid until reservoir looks about half full **(FIG. 38-1)**. Reinstall filler cap **(FIG. 38-1)**.

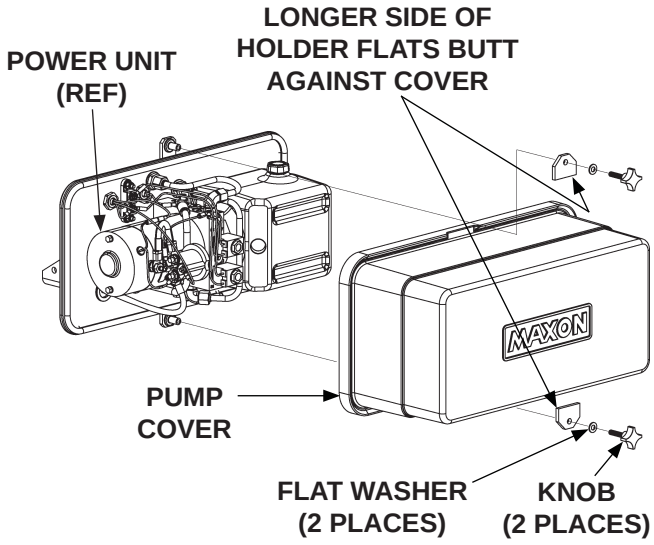


POWER UNIT FLUID LEVEL
FIG. 38-1

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.

3. Bolt on the pump cover as shown in **FIG. 38-2**. Hand tighten the threaded cover knobs.



BOLTING ON PUMP COVER
FIG. 38-2

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STEP 7 - ADDING 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 39-1

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 39-2

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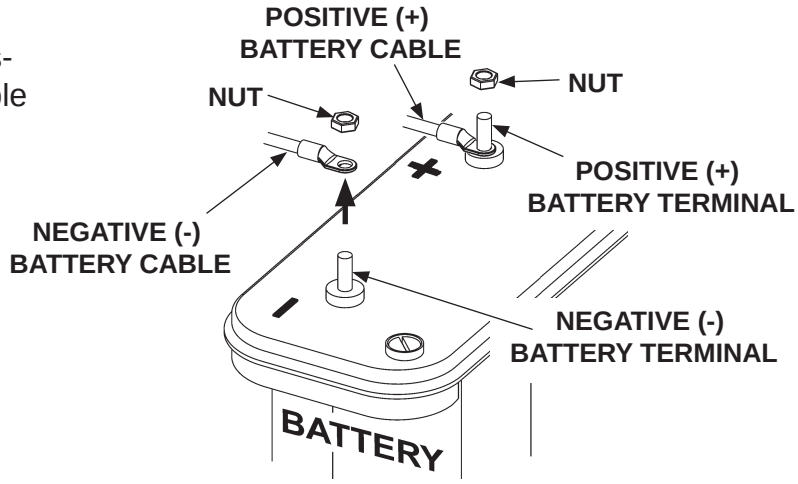
STEP 8 - CONNECT POWER CABLE TO BATTERY

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

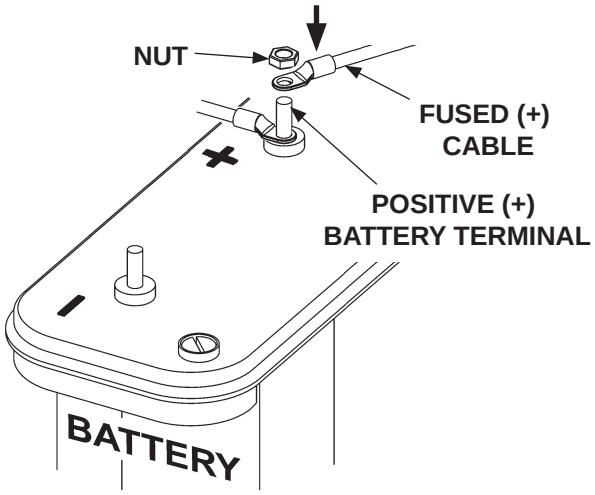
1. Remove nut from negative **(-)** battery terminal **(FIG. 40-1)**. Disconnect negative **(-)** battery cable **(FIG. 40-1)**.



DISCONNECTING (-) BATTERY CABLE
FIG. 40-1

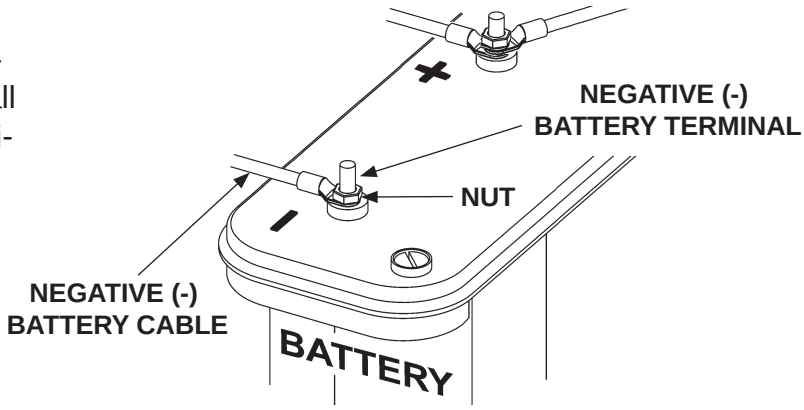
2. Remove nut from positive **(+)** battery terminal **(FIG. 40-1)**.

3. Connect fused positive **(+)** cable to positive **(+)** battery terminal **(FIG. 40-2)**. Then, reinstall nut on positive **(+)** battery terminal **(FIG. 40-2)**.



CONNECTING FUSED (+) CABLE
FIG. 40-2

4. Reconnect negative **(-)** battery cable to negative **(-)** battery terminal **(FIG. 40-3)**. Then, reinstall nut on negative **(-)** battery terminal **(FIG. 40-3)**.



RECONNECTED BATTERY CABLES
FIG. 40-3

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STEP 9 - REMOVE LOCKING ANGLES & KNUCKLE BOLTS, CHECK FOR INTERFERENCE

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. 41-1A)**.

3. With platform open **(FIG. 41-1A)**, unbolt each knuckle as shown in **FIG. 41-1B**.

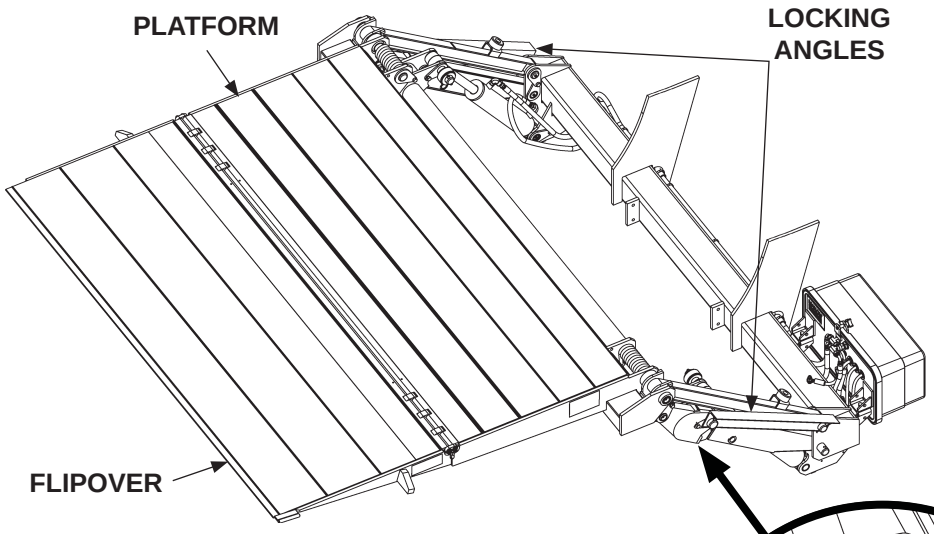
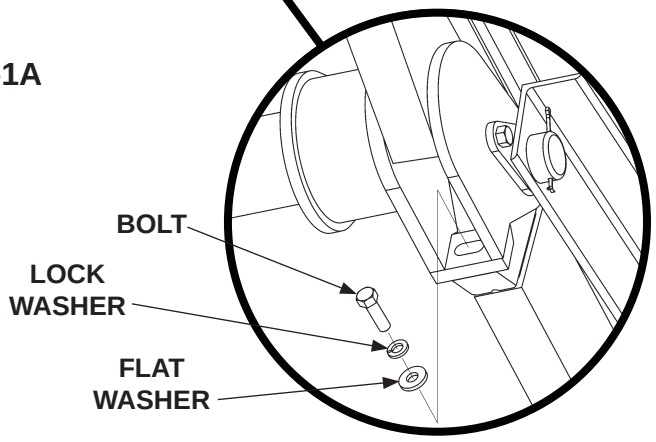


FIG. 41-1A



UNBOLTING KNUCKLE
FIG. 41-1B

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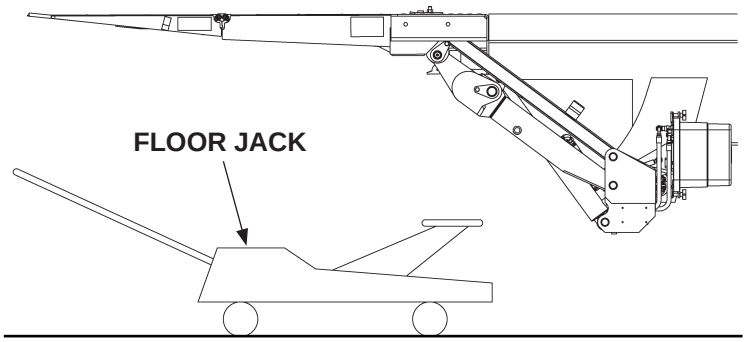
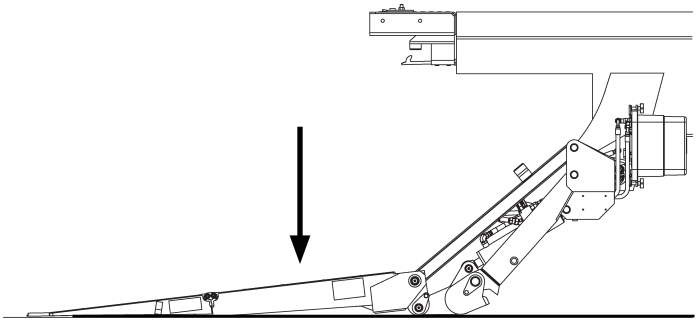
STEP 9 - REMOVE LOCKING ANGLES & KNUCKLE BOLTS, CHECK FOR INTERFERENCE - Continued

4. Remove floor jack and hoist supporting Liftgate **(FIG. 42-1)**.

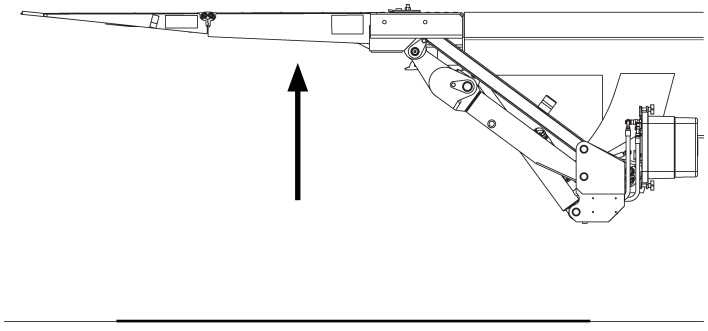


REMOVING JACK
FIG. 42-1

5. Lower platform to the ground **(FIG. 42-2)**. 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. 42-3)**. 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. 42-3)**.



LOWERING PLATFORM
FIG. 42-2



RAISING PLATFORM
FIG. 42-3

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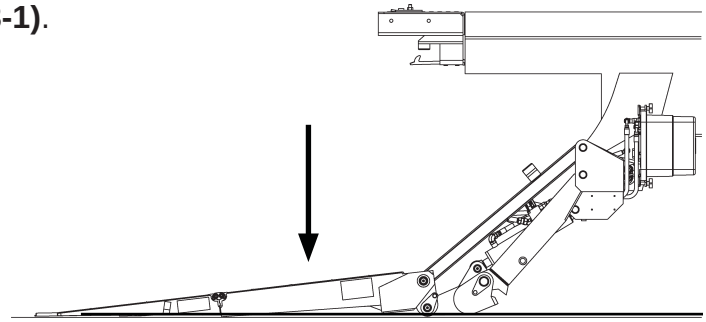
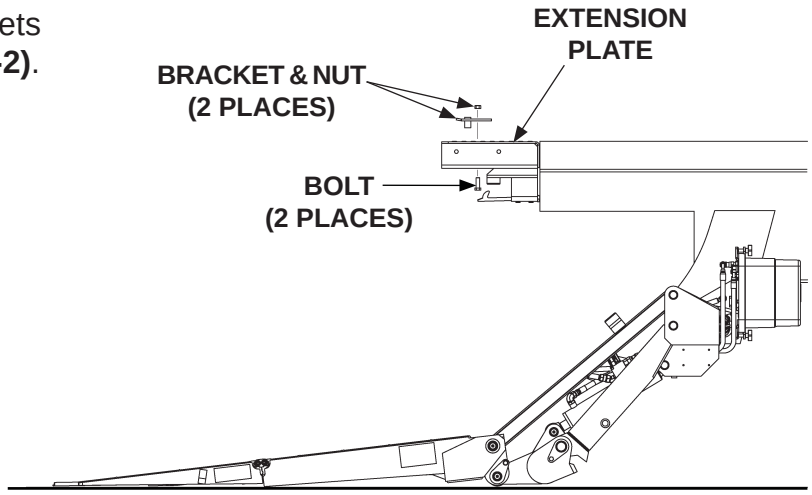
STEP 9 - REMOVE LOCKING ANGLES & CHECK FOR INTERFERENCE - Continued

6. Lower platform to the ground **(FIG. 43-1)**.



LOWERING PLATFORM
FIG. 43-1

7. Unbolt the 2 installation brackets from extension plate **(FIG. 43-2)**.



REMOVING INSTALLATION BRACKETS
FIG. 43-2

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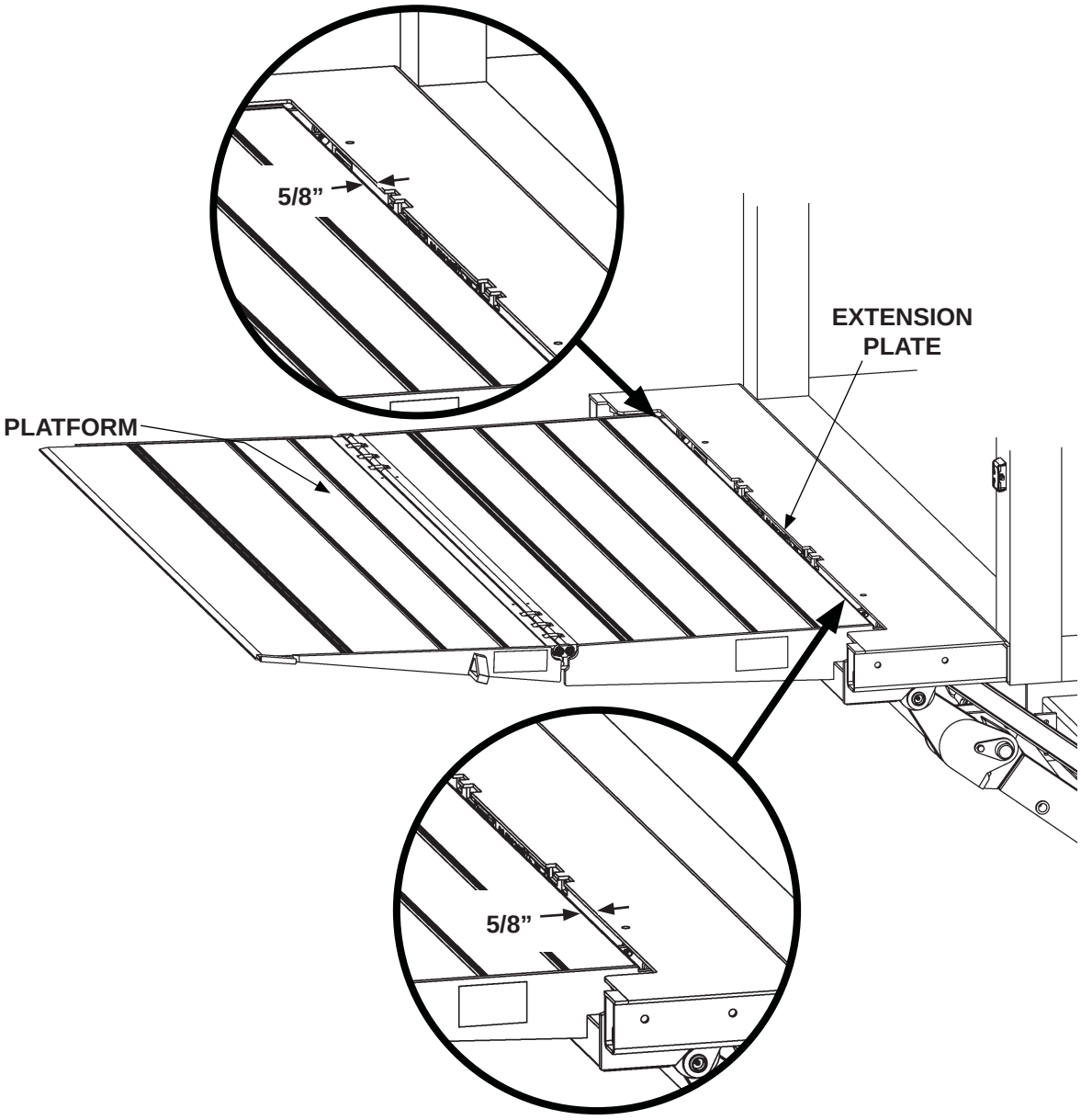
STEP 9 - REMOVE LOCKING ANGLES & CHECK FOR INTERFERENCE - Continued

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

8. Raise the platform to vehicle floor level **(FIG. 44-1)**. **(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. 44-1)**.



CHECKING GAP BETWEEN PLATFORM AND EXTENSION PLATE
FIG. 44-1

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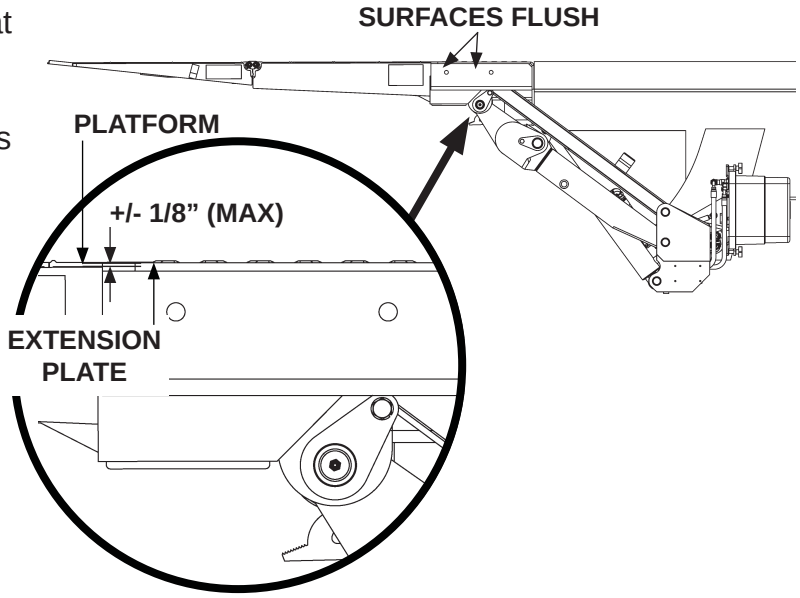
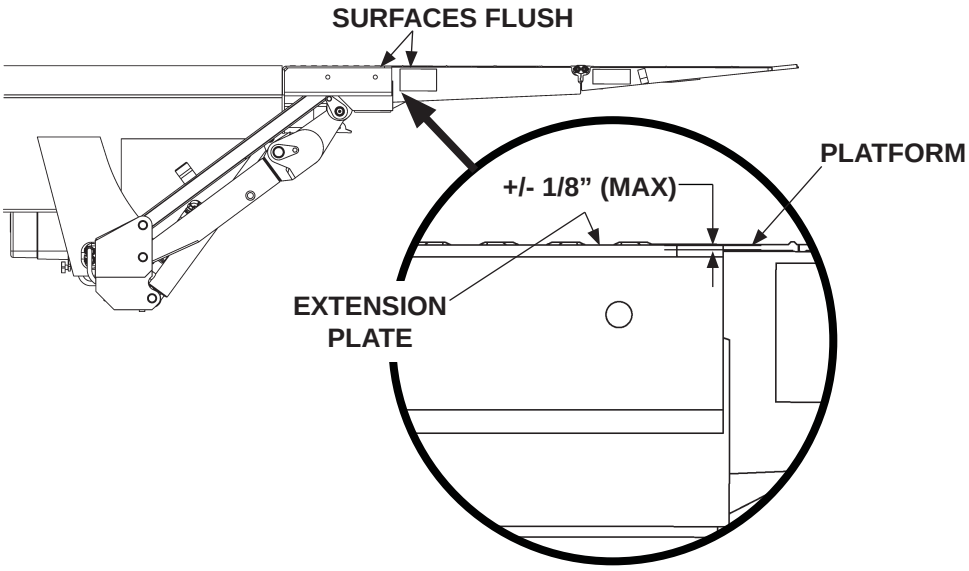
STEP 9 - REMOVE LOCKING ANGLES & CHECK FOR INTERFERENCE - Continued

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

9. Ensure top surface of platform and extension plate are flush at the RH & LH sides of platform **(FIGS. 45-1 and 45-2)**. The allowable difference in height is +/- 1/8" maximum as shown.



DIFFERENCE IN HEIGHT FOR TOP OF PLATFORM & EXTENSION PLATE (RH VIEW)
FIG. 45-1



DIFFERENCE IN HEIGHT FOR TOP OF PLATFORM & EXTENSION PLATE (LH VIEW)
FIG. 45-2

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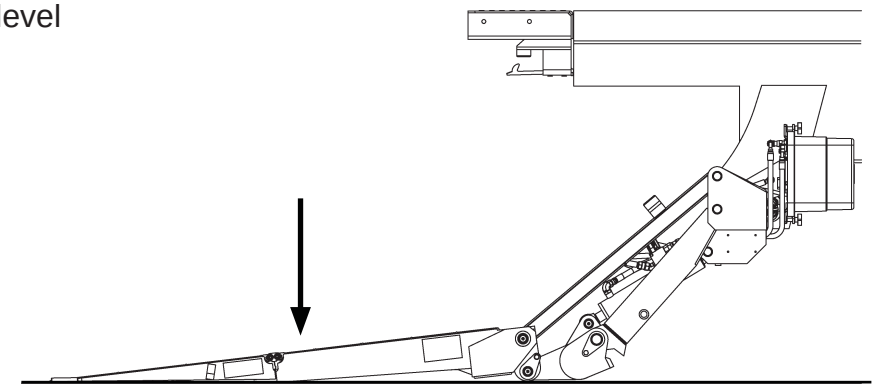
STEP 10 - INSTALL OPENER, LICENSE PLATE BRACKET, & ICC BUMPER (IF EQUIPPED)

1. Lower platform to ground level **(FIG. 46-1)**.

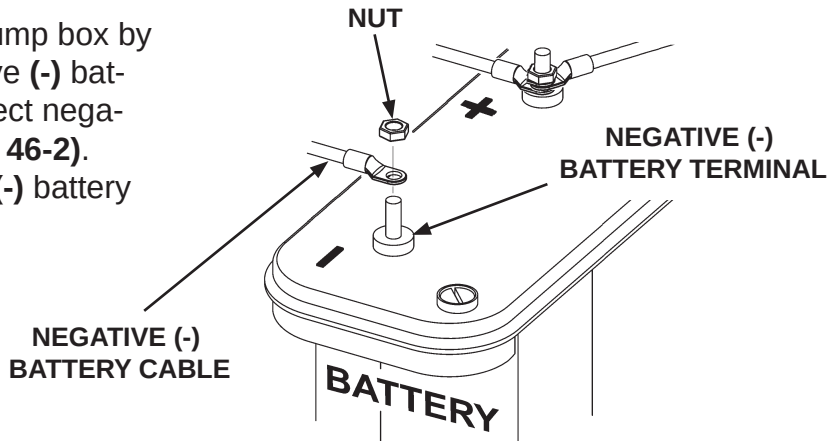


LOWERING PLATFORM
FIG. 46-1

⚠ WARNING

To prevent personal injury and equipment damage, keep the Liftgate from being operated while working between the platform and extension plate.

2. Disconnect power from pump box by removing nut from negative **(-)** battery terminal and disconnect negative **(-)** battery cable **(FIG. 46-2)**. Reinstall nut on negative **(-)** battery terminal.



DISCONNECTING POWER
FIG. 46-2

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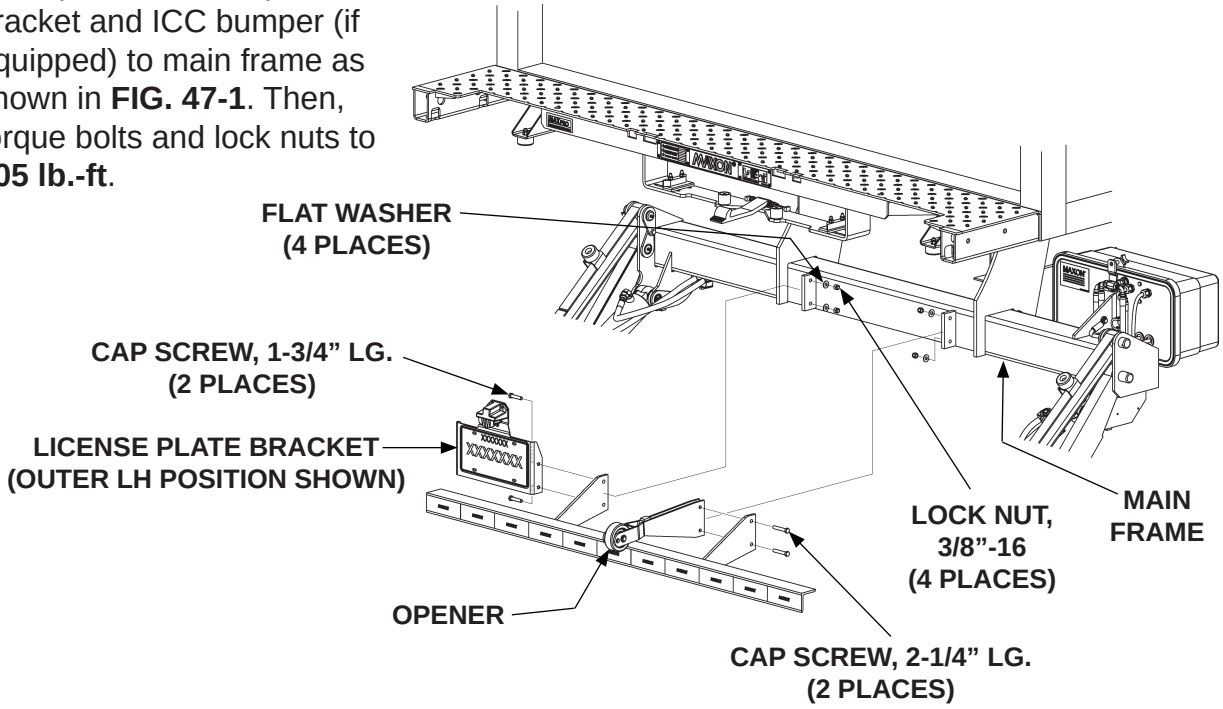
STEP 10 - INSTALL OPENER, LICENSE PLATE BRACKET, & ICC BUMPER (IF EQUIPPED) - Continued

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.

NOTE: If Liftgate is equipped with underride, do the platform opener instructions below and license plate bracket instructions on the pages that follow.

3. Bolt opener, license plate bracket and ICC bumper (if equipped) to main frame as shown in **FIG. 47-1**. Then, torque bolts and lock nuts to **105 lb.-ft**.



BOLTING ON ICC BUMPER, OPENER & LICENSE PLATE BRACKET
FIG. 47-1

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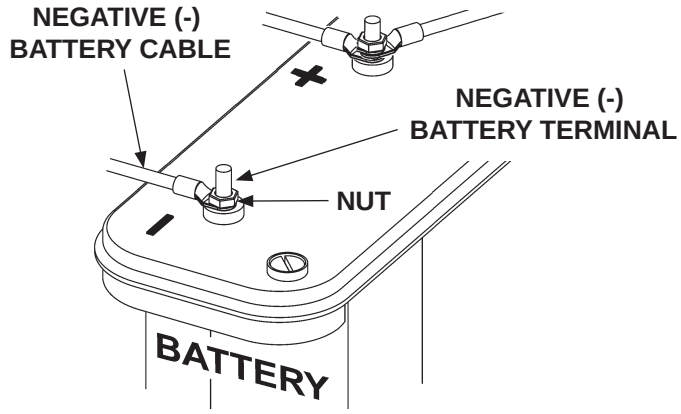
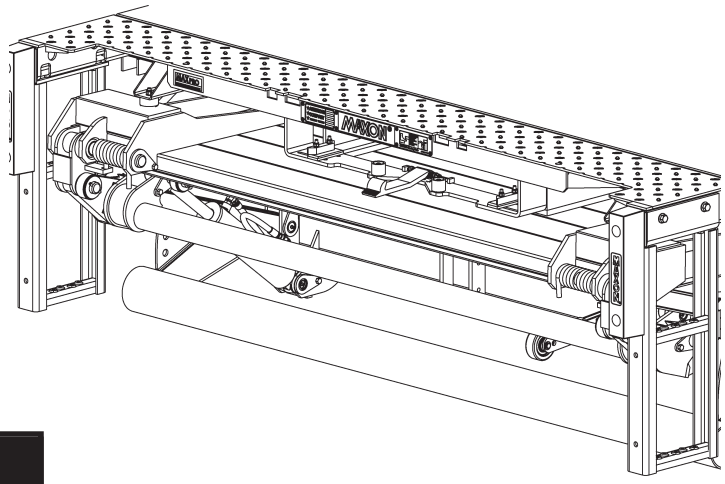
STEP 10 - INSTALL OPENER, LICENSE PLATE BRACKET, & ICC BUMPER (IF EQUIPPED) - Continued

4. Reconnect power as follows. Remove nut from negative **(-)** battery terminal. Reconnect the negative **(-)** battery cable to negative **(-)** battery terminal **(FIG. 48-1)**. Reinstall and tighten nut.



RECONNECTING POWER
FIG. 48-1

5. Stow platform **(FIG. 48-2)**. Refer to operating instructions in **Operation Manual**.

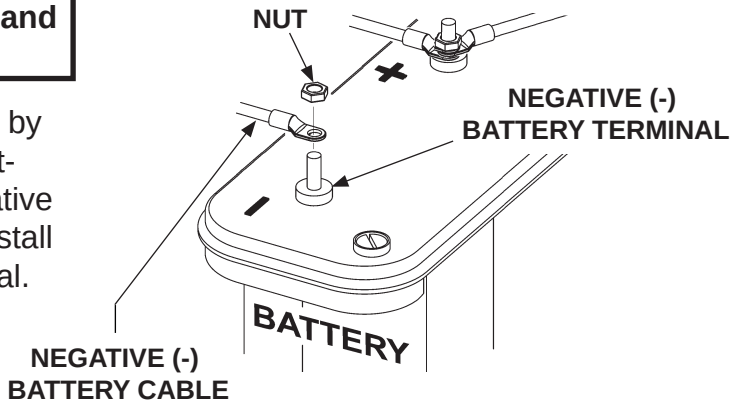


PLATFORM STOWED
FIG. 48-2

⚠ WARNING

To prevent personal injury and equipment damage, keep the Liftgate from being operated while working between the platform and extension plate.

6. Disconnect power from pump box by removing nut from negative **(-)** battery terminal and disconnect negative **(-)** battery cable **(FIG. 48-3)**. Reinstall nut on negative **(-)** battery terminal.



DISCONNECTING POWER
FIG. 48-3

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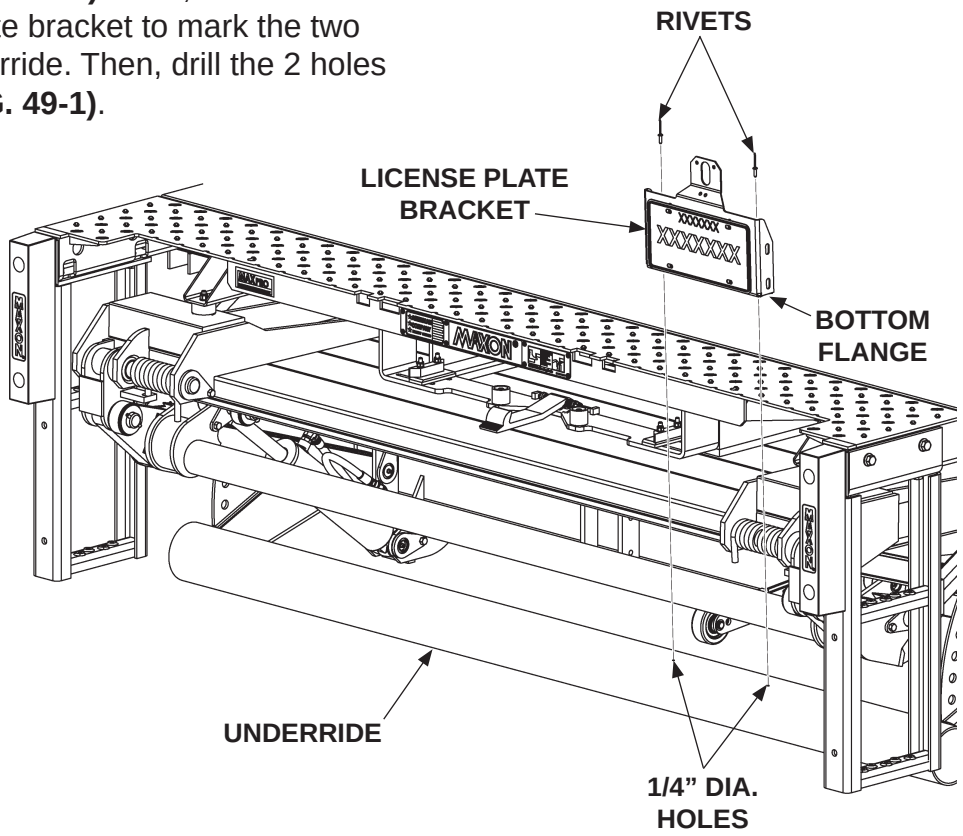
STEP 10 - INSTALL OPENER, LICENSE PLATE BRACKET, & ICC BUMPER (IF EQUIPPED) - Continued

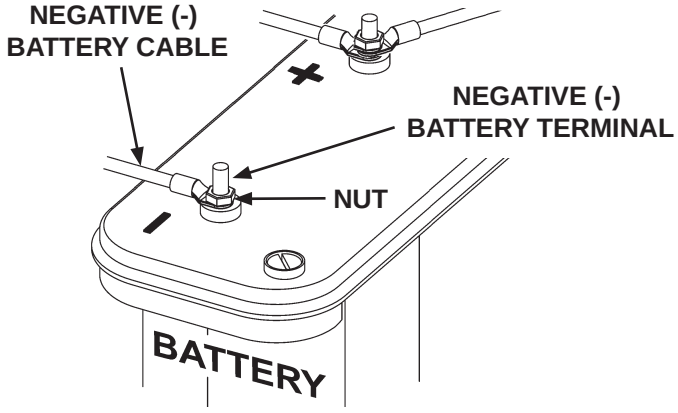
7. Put license plate bracket in desired position on top of underride **(FIG. 49-1)**. Next, use bottom flange of license plate bracket to mark the two holes on top of underride. Then, drill the 2 holes with 1/4" drill bit **(FIG. 49-1)**.



EXAMPLE FOR POSITIONING & RIVETING LICENSE PLATE BRACKET TO UNDERRIDE (GPT SHOWN)
FIG. 49-1

8. Rivet license plate bracket to underride **(FIG. 49-1)**.

9. Reconnect power as follows. Remove nut from negative **(-)** battery terminal. Reconnect the negative **(-)** battery cable to negative **(-)** battery terminal **(FIG. 49-2)**. Reinstall and tighten nut.



RECONNECTING POWER
FIG. 49-2

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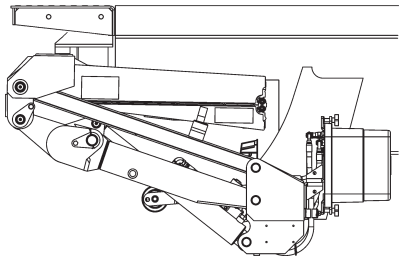
STEP 10 - INSTALL OPENER, LICENSE PLATE BRACKET, & ICC BUMPER (IF EQUIPPED) - Continued

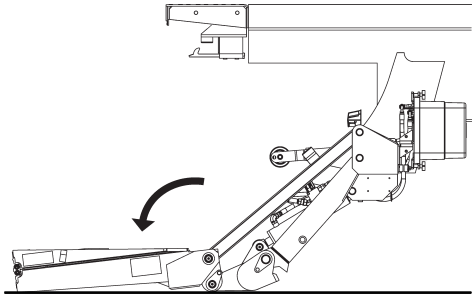
⚠ CAUTION

If there is any interference with the platform while stowing Liftgate, check for damage on bottom of platform, flipover, and the hinge in between. A damaged platform or flipover may result in personal injury and additional damage to Liftgate.

10. Stow and unfold Liftgate several times to verify there is no interference **(FIGS. 50-1 and 50-2)**.

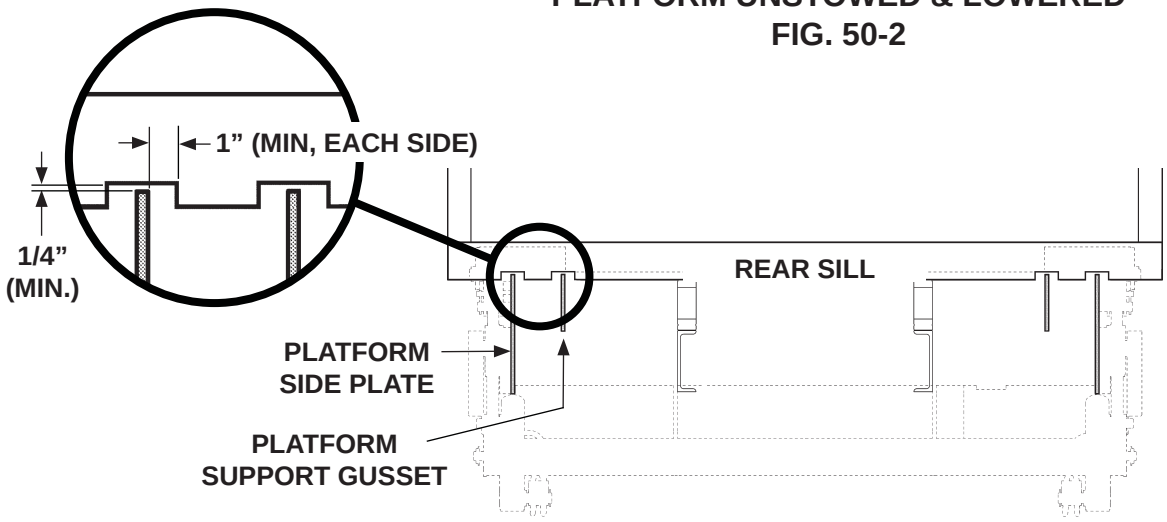


STOWED PLATFORM
FIG. 50-1



PLATFORM UNSTOWED & LOWERED
FIG. 50-2

11. If the rear sill is over 4" in height and had to be modified, check the modified areas for the minimum clearances shown in **FIG. 50-3**.



CHECKING FOR MINIMUM CLEARANCES BETWEEN PLATFORM & MODIFIED AREAS ON REAR SILL (EXTENSION PLATE NOT SHOWN)
FIG. 50-3

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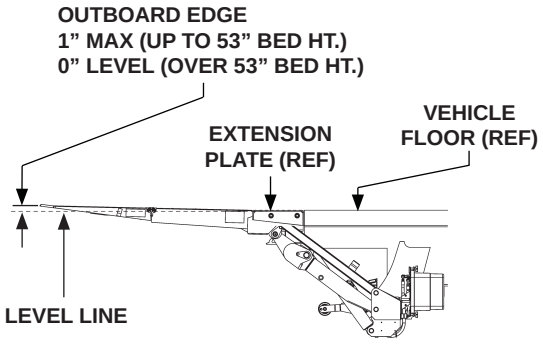
STEP 11 - ADJUST PLATFORM (IF REQUIRED)

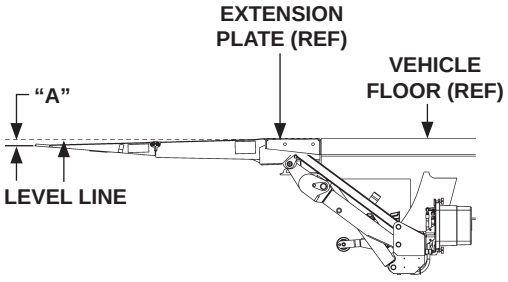
NOTE: Before doing the following procedure, make sure vehicle is parked on level ground.

1. 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**.



PLATFORM EDGE AT OR ABOVE BED LEVEL
FIG. 51-1

2. 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)**.

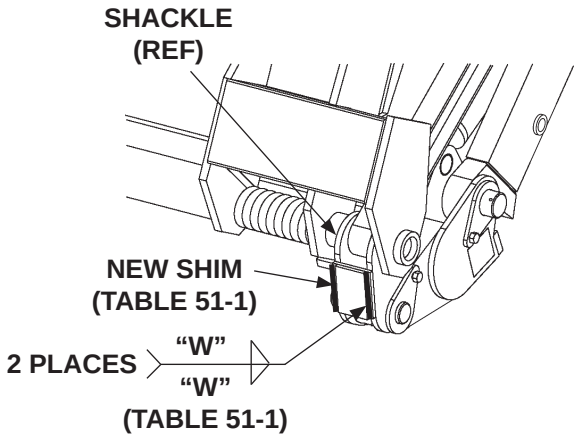


PLATFORM EDGE BELOW BED LEVEL
FIG. 51-2

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

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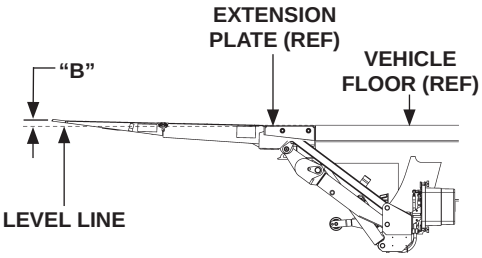
STEP 11 - ADJUST PLATFORM - Continued

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)**.

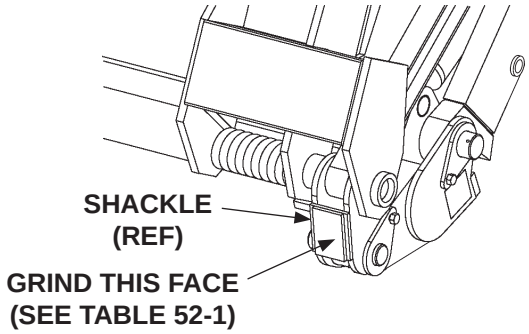
LOWER PLATFORM EDGE (OUTBOARD) THIS DISTANCE ("B")	GRIND METAL FROM PLATFORM STOP
1"	1/16"
2"	1/8"
3"	3/16"
4"	1/4"

TABLE 52-1



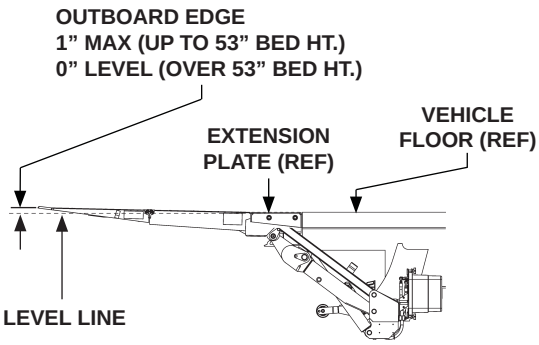
PLATFORM EDGE ABOVE BED LEVEL
FIG. 52-1

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



GRINDING PLATFORM STOPS
(CURBSIDE SHOWN)
FIG. 52-2

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 12 - FINISH WELDING LIFTGATE TO VEHICLE

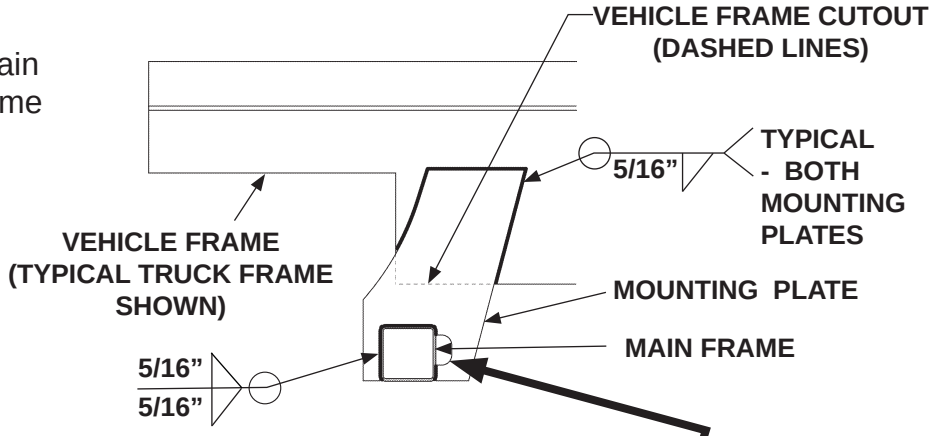
CAUTION

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

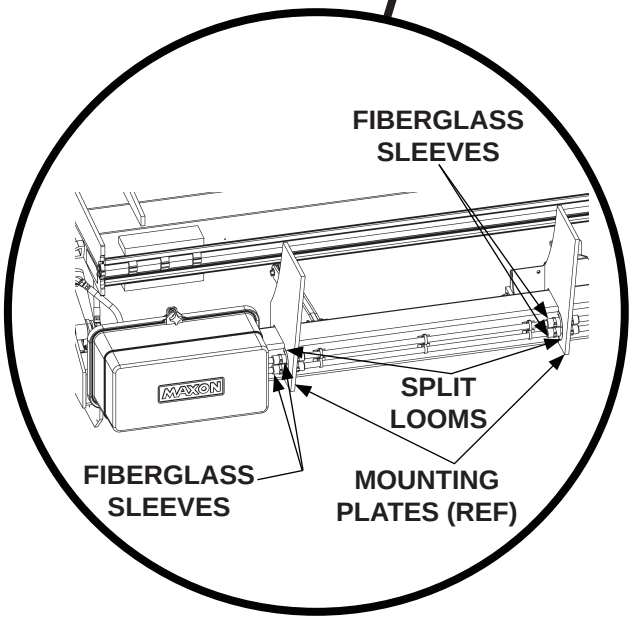
To protect the original paint system, a 3" wide area of paint must be removed from all sides of the weld area before welding.

1. Weld each of the two mounting plates to main frame and vehicle frame **(FIG. 53-1A)**.



WELDING MOUNTING PLATE
FIG. 53-1A

2. After welding is done and mounting plates are cool, remove the 4 fiberglass sleeves shown in **FIG. 53-1B**. Next, reinstall the split looms **(FIG. 53-1B)** removed in **STEP 2**.



REINSTALLING SPLIT LOOMS
FIG. 53-1B

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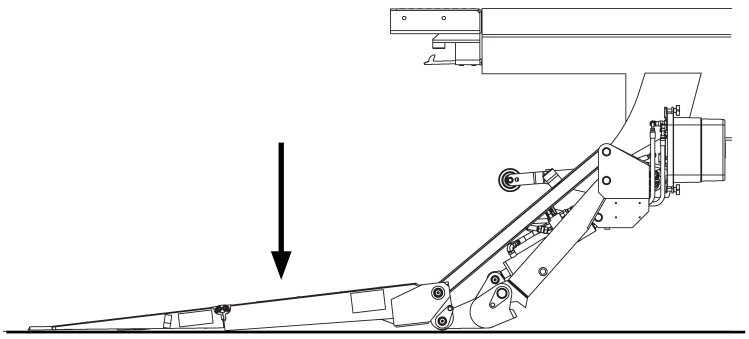
STEP 13 - BOLT STEPS TO EXTENSION PLATE

1. Lower platform to the ground **(FIG. 54-1)**.

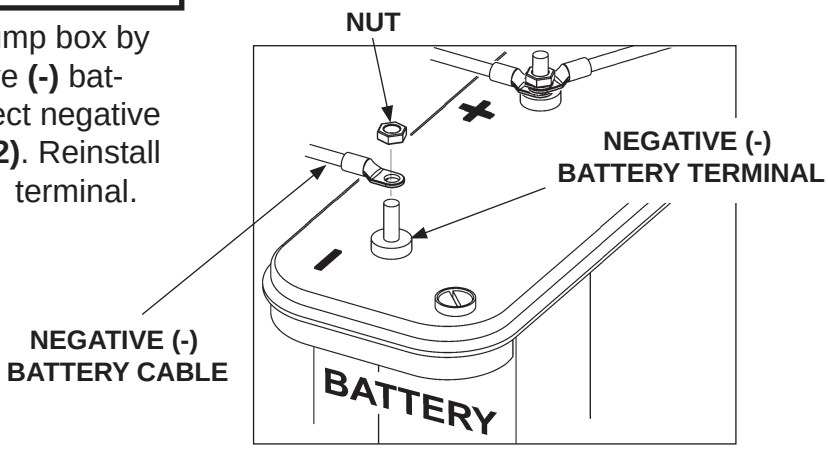


PLATFORM LOWERED TO GROUND
FIG. 54-1

⚠ WARNING

To prevent personal injury and equipment damage, keep the Liftgate from being operated while installing steps on extension plate.

2. Disconnect power from pump box by removing nut from negative **(-)** battery terminal and disconnect negative **(-)** battery cable **(FIG. 54-2)**. Reinstall nut on negative **(-)** battery terminal.



DISCONNECTING POWER
FIG. 54-2

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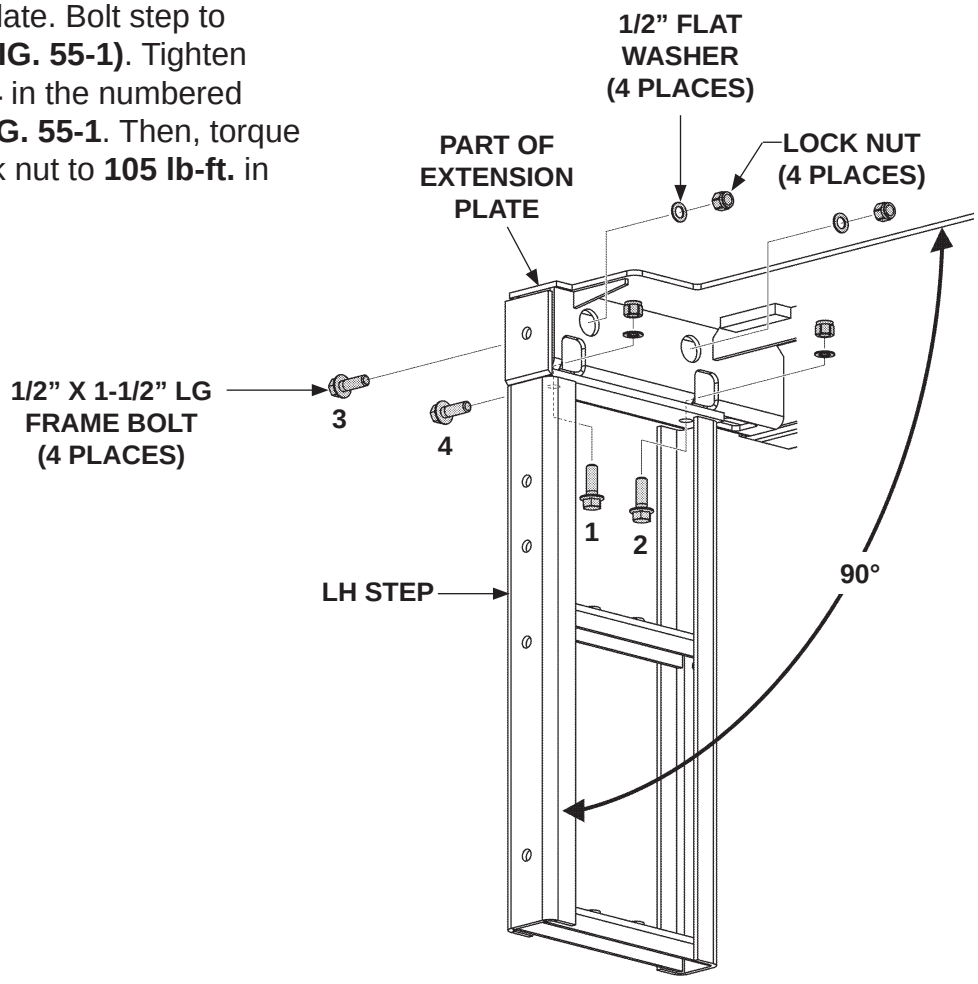
STEP 13 - BOLT STEPS TO EXTENSION PLATE - Continued

CAUTION

To prevent interference with Liftgate and possible damage, maintain 90º 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 step (Kit item) on side of the extension plate. Bolt step to extension plate **(FIG. 55-1)**. Tighten bolts **1**, **2**, **3** and **4** in the numbered order shown in **FIG. 55-1**. Then, torque each bolt and lock nut to **105 lb-ft.** in the same order.



BOLTING STEP TO EXTENSION PLATE (LH STEP SHOWN) FIG. 55-1

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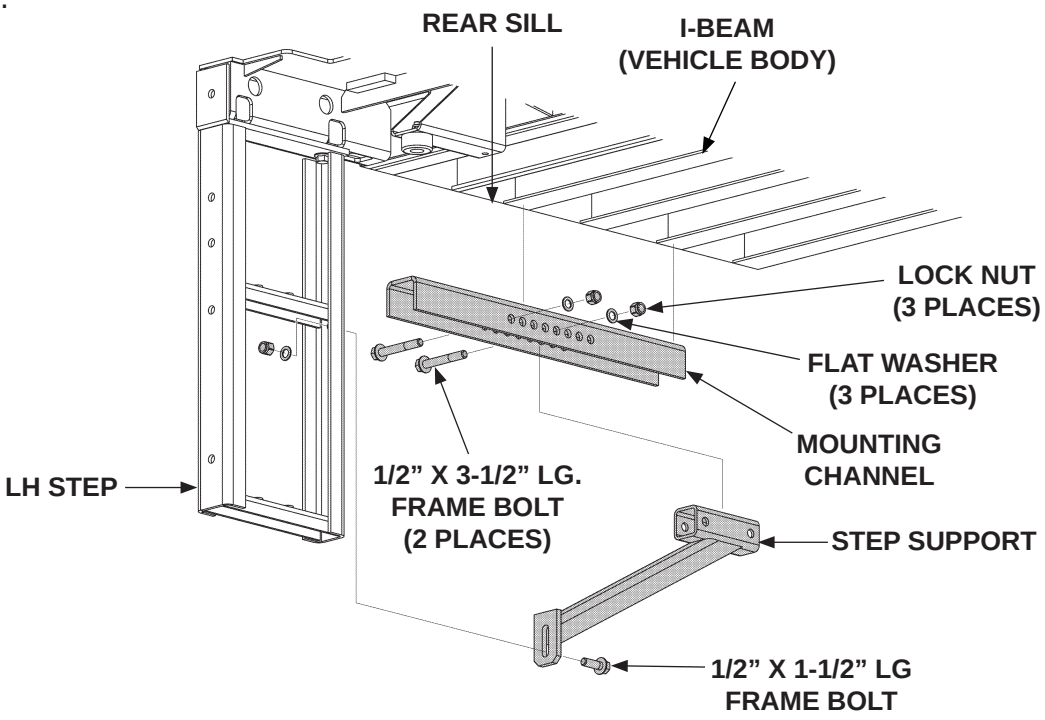
STEP 13 - BOLT STEPS TO EXTENSION PLATE - Continued

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



BOLTING SUPPORT TO MOUNTING CHANNEL & 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**.

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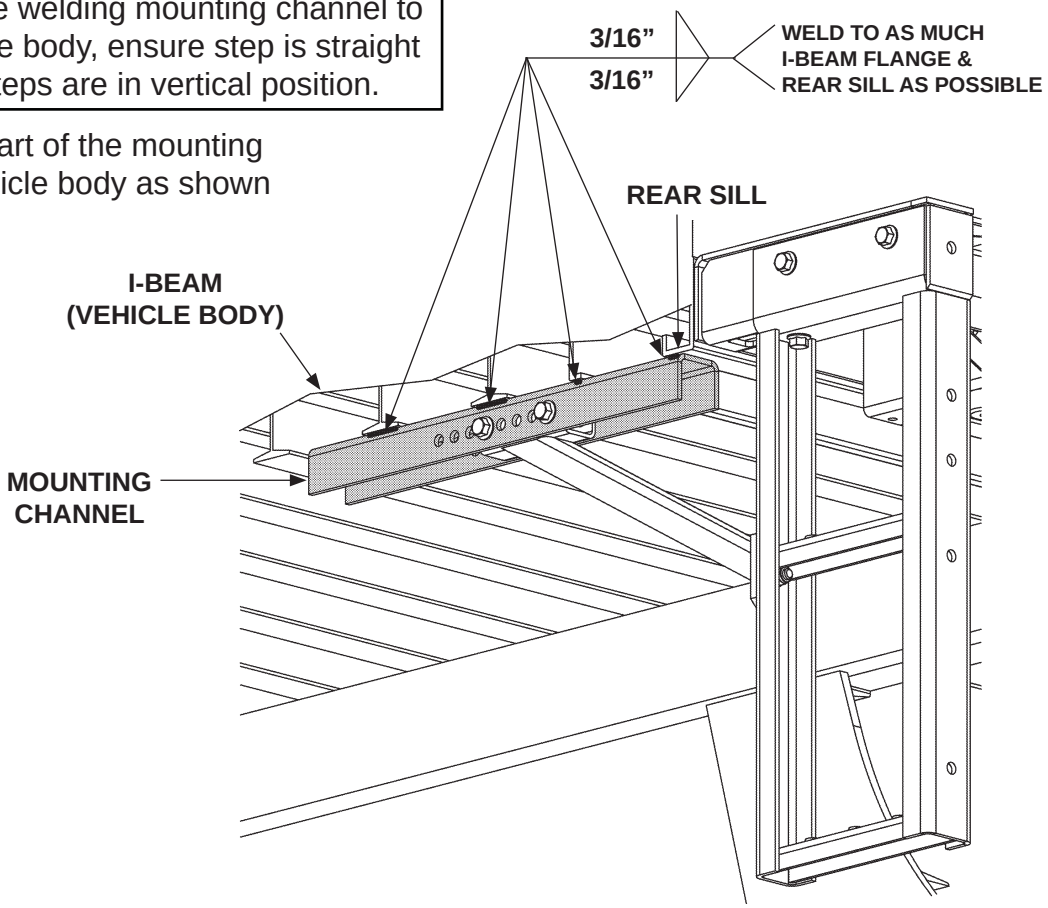
STEP 13 - BOLT STEPS TO EXTENSION PLATE - Continued

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

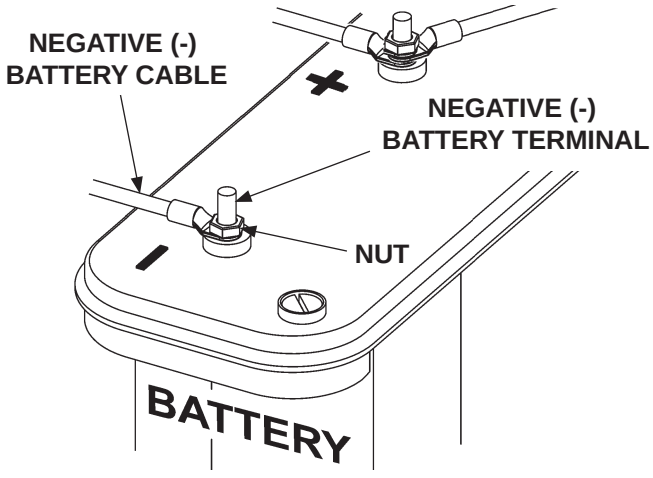
7. Weld the flat part of the mounting channel to vehicle body as shown in **FIG. 57-1**.



WELDING FLAT OF MOUNTING CHANNEL TO VEHICLE BODY (LH STEP SHOWN) FIG. 57-1

8. Repeat instructions **3 through 7** for RH step. Use the RH Step Assembly (Kit item).

9. Reconnect power as follows. Remove nut from negative **(-)** battery terminal. Reconnect the negative **(-)** battery cable to negative **(-)** battery terminal **(FIG. 57-2)**. Reinstall and tighten nut.



RECONNECTING POWER FIG. 57-2

STEP 14 - ADJUST WALK RAMP PADS

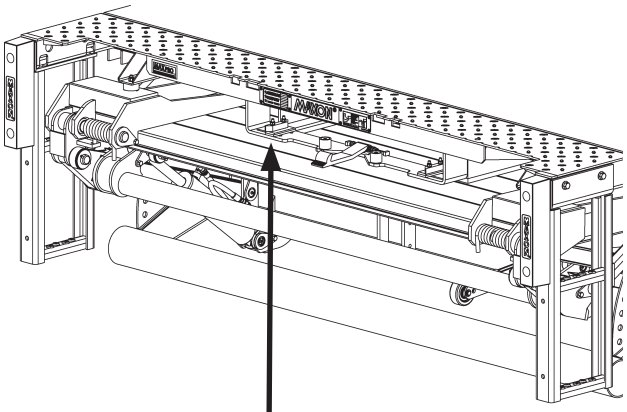
1. Stow the platform **(FIG. 58-1A)**.

> **NOTE:** If necessary to lower each walk ramp pad, the steel shim under each pad can be removed.

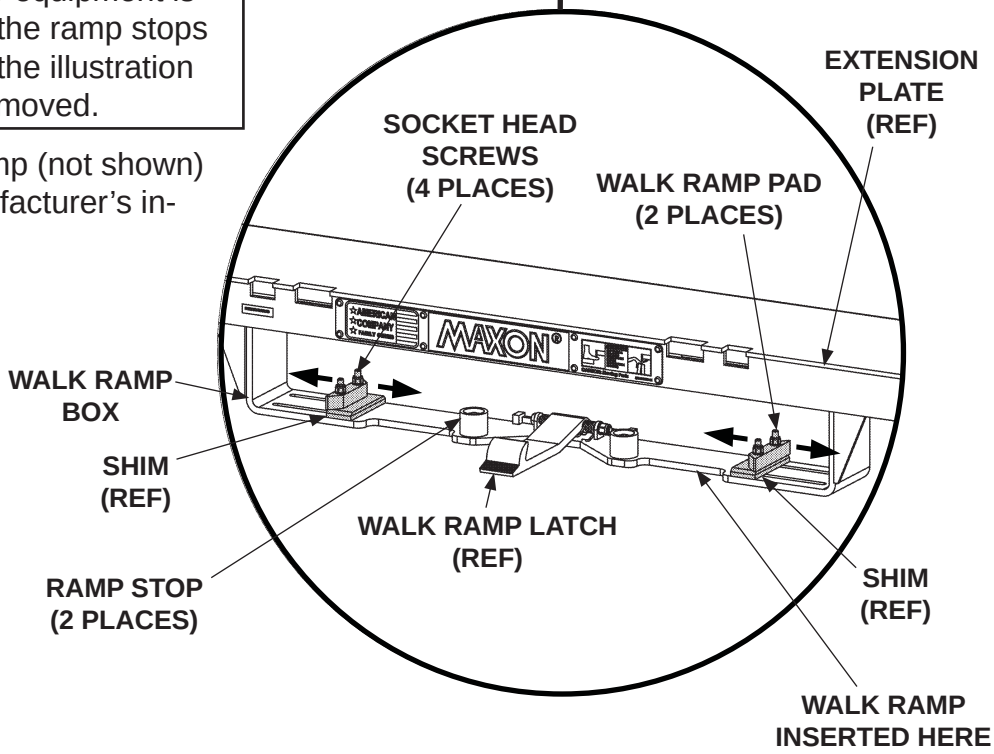
2. Loosen the socket head screws and lock nuts **(FIG. 58-1B)**. Slide the pads toward the outside of the walk ramp box **(FIG. 58-1B)**.

> **NOTE:** If a different ramp stop method or equipment is required, the ramp stops shown in the illustration can be removed.

3. Install the walk ramp (not shown) according to manufacturer's instructions.



LIFTGATE WITH PLATFORM STOWED FIG. 58-1A



ADJUSTING WALK RAMP PADS FIG. 58-1B

4. Slide the ramp pads to the edge of the walk ramp (not shown) **(FIG. 58-1B)**.

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

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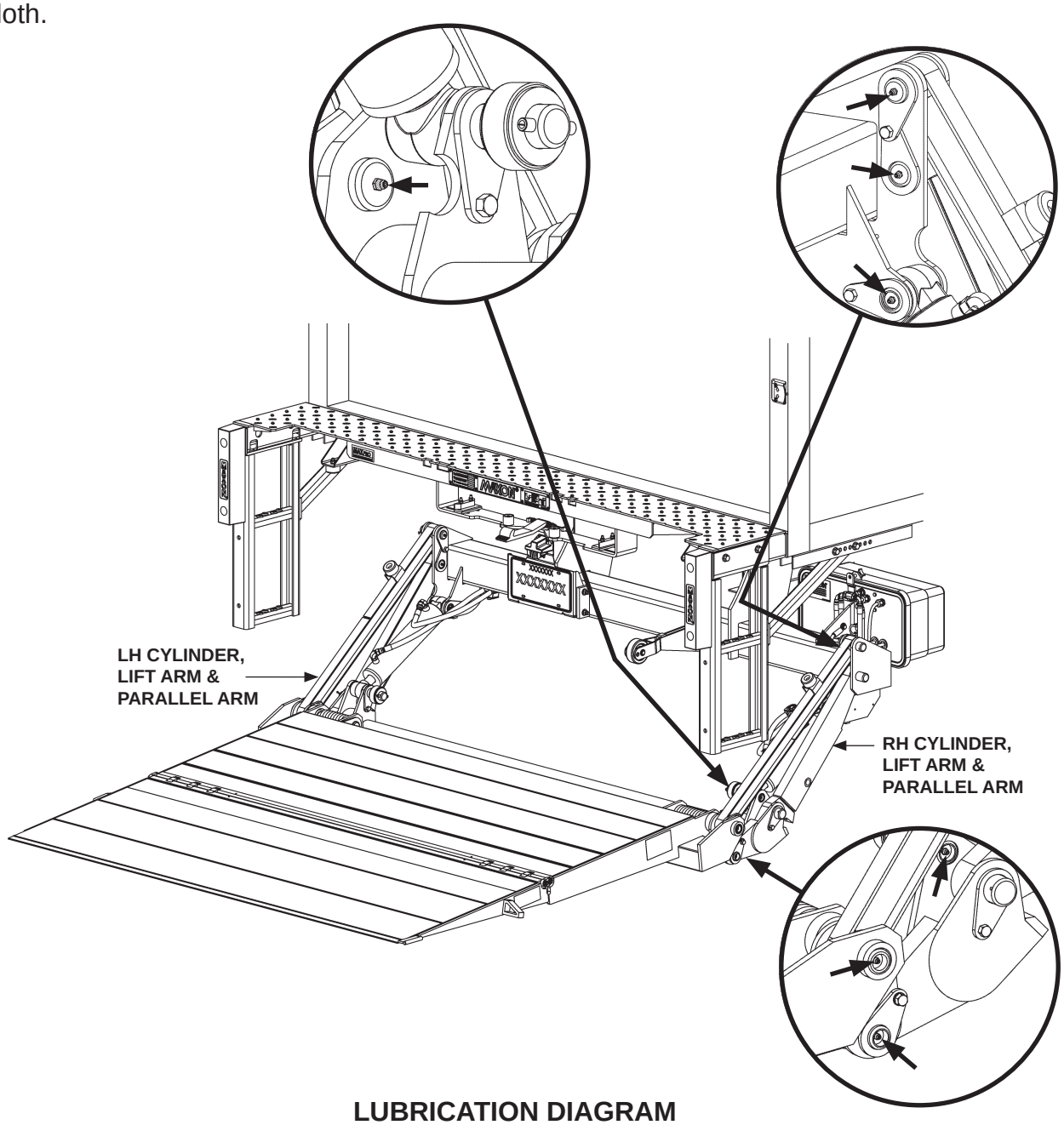
STEP 16 - LUBE GREASE FITTINGS AS NEEDED

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.



LUBRICATION DIAGRAM
FIG. 59-1

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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.

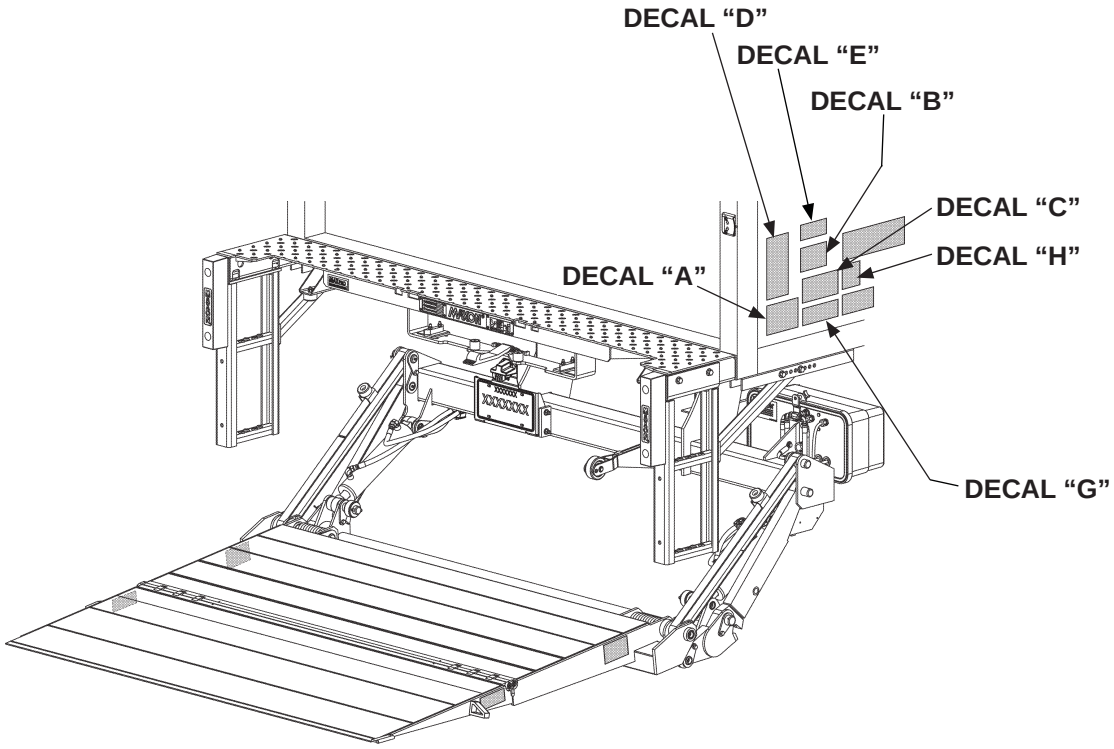

FIG. 60-1

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APPLY DECALS - Continued

SAFETY INSTRUCTIONS

Read all decals and operation manual before operating liftgate.

1. Do not use liftgate unless you have been properly instructed and have read, and are familiar with, the operating instructions.
2. Be certain vehicle is properly and securely braked before using the liftgate.
3. Always inspect this liftgate for maintenance or damage before using it. Do not use liftgate if it shows any sign of damage or improper maintenance.
4. Do not overload
5. Make certain the area in which the platform will open and close is clear before opening or closing the platform.
6. Make certain platform area, including the area in which loads may fall from platform, is clear before and at all times during operation of liftgate.
7. This liftgate is intended for loading and unloading of cargo only. Do not use this liftgate for anything but its intended use.

A

SAFETY INSTRUCTIONS

1. **Read WARNING decal for the walk ramp before you set up walk ramp & stow walk ramp.**
2. **To set up walk ramp & stow walk ramp, refer to walk ramp manufacturer's instructions.**

G

⚠ WARNING

Read this information carefully.

- Improper operation of this Liftgate can result in serious personal injury. If you do not have a copy of the operating instructions, please obtain them from your employer, distributor, or lessor before you attempt to operate Liftgate.
- If there are signs of improper maintenance, damage to vital parts, or slippery platform surface, do not use the Liftgate until these problems have been corrected.
- If you are using a pallet jack, be sure it can be maneuvered safely.
- Do not operate a forklift on the platform.
- Do not allow any part of yours or your helper's body to be placed under, within, or around any portion of the moving Liftgate, or its mechanisms, or in a position that would trap them between the platform and the ground or truck when the Liftgate is operated.
- If a helper is riding the platform with you, make sure you are both doing so safely and that you are not in danger of coming in contact with any moving or potentially moving obstacles.
- **USE GOOD COMMON SENSE**.
- If load appears to be unsafe, do not lift or lower it.

For a free copy of other manuals that pertain to this model Liftgate, please visit our website at **www.maxonlift.com** or call **Customer Service at (800) 227-4116**.

B

⚠ WARNING

Liftgate hazards can result in crushing or falling.

Keep hands and feet clear of pinch points.

If riding liftgate, make sure load is stable and footing is solid.

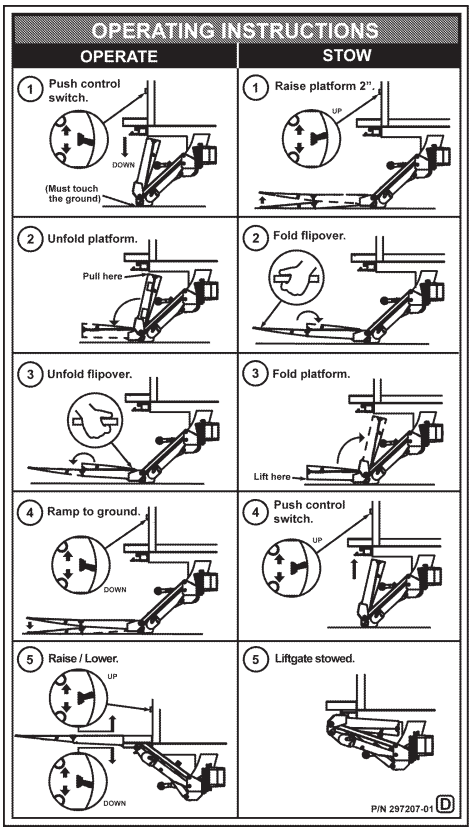
C

Read and understand all instructions and WARNINGS before use.

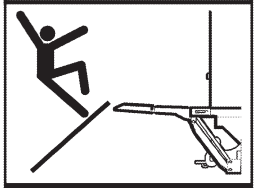
⚠ CAUTION

Always stand clear of platform area.

E



⚠ WARNING



Never operate liftgate when walk ramp is extended.

Always stow ramp before operating liftgate.

H

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

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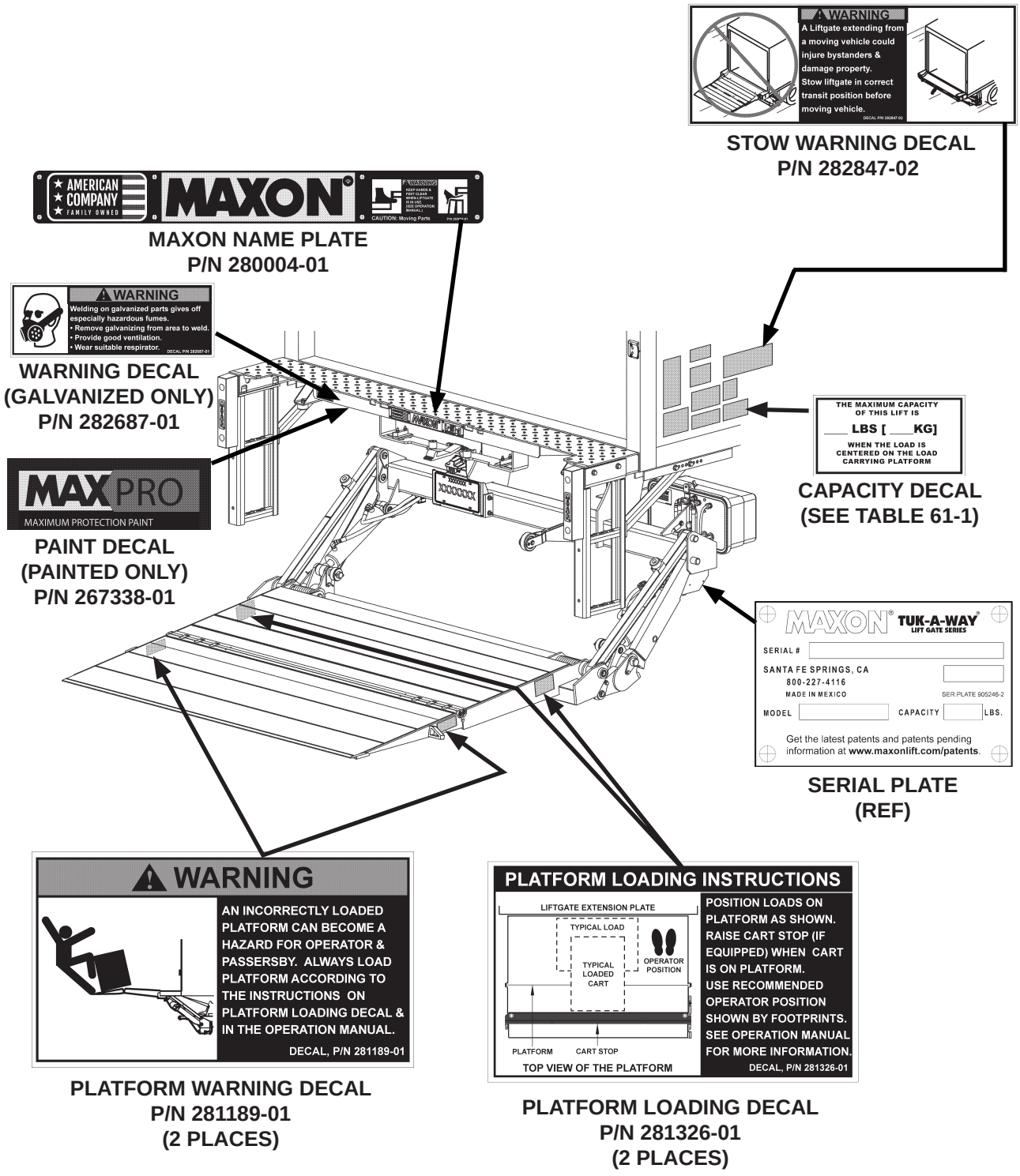
DECALS & PLATES

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



STOW WARNING DECAL
P/N 282847-02

MAXON NAME PLATE
P/N 280004-01

WARNING DECAL
(GALVANIZED ONLY)
P/N 282687-01

PAINT DECAL
(PAINTED ONLY)
P/N 267338-01

CAPACITY DECAL
(SEE TABLE 61-1)

SERIAL PLATE
(REF)

PLATFORM WARNING DECAL
P/N 281189-01
(2 PLACES)

PLATFORM LOADING DECAL
P/N 281326-01
(2 PLACES)

FIG. 62-1

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TOUCHUP 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 kit, **P/N 908134-01**.
- 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.

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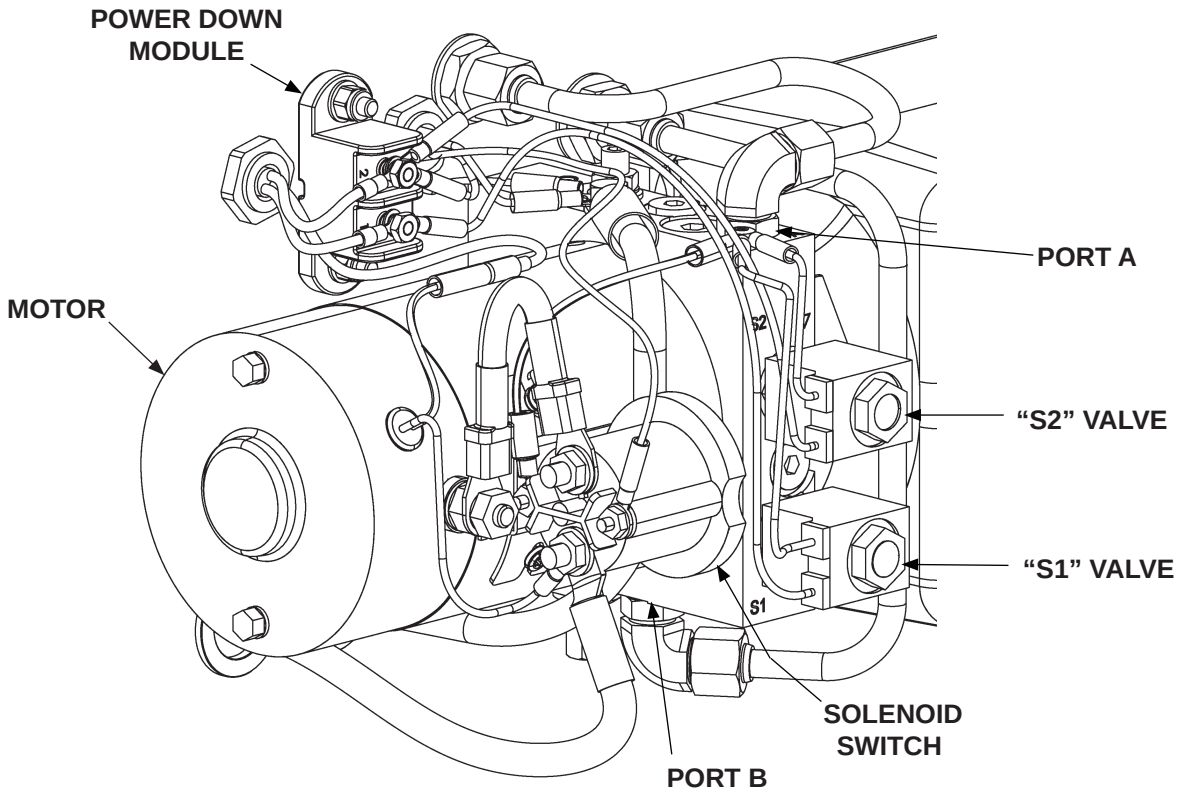
SYSTEM DIAGRAMS

PUMP & MOTOR SOLENOID OPERATION



POWER UNIT
FIG. 64-1

NOTE: Hydraulic lock valve is on the RH cylinder.

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

TABLE 64-1

HYDRAULIC SCHEMATIC (POWER DOWN)

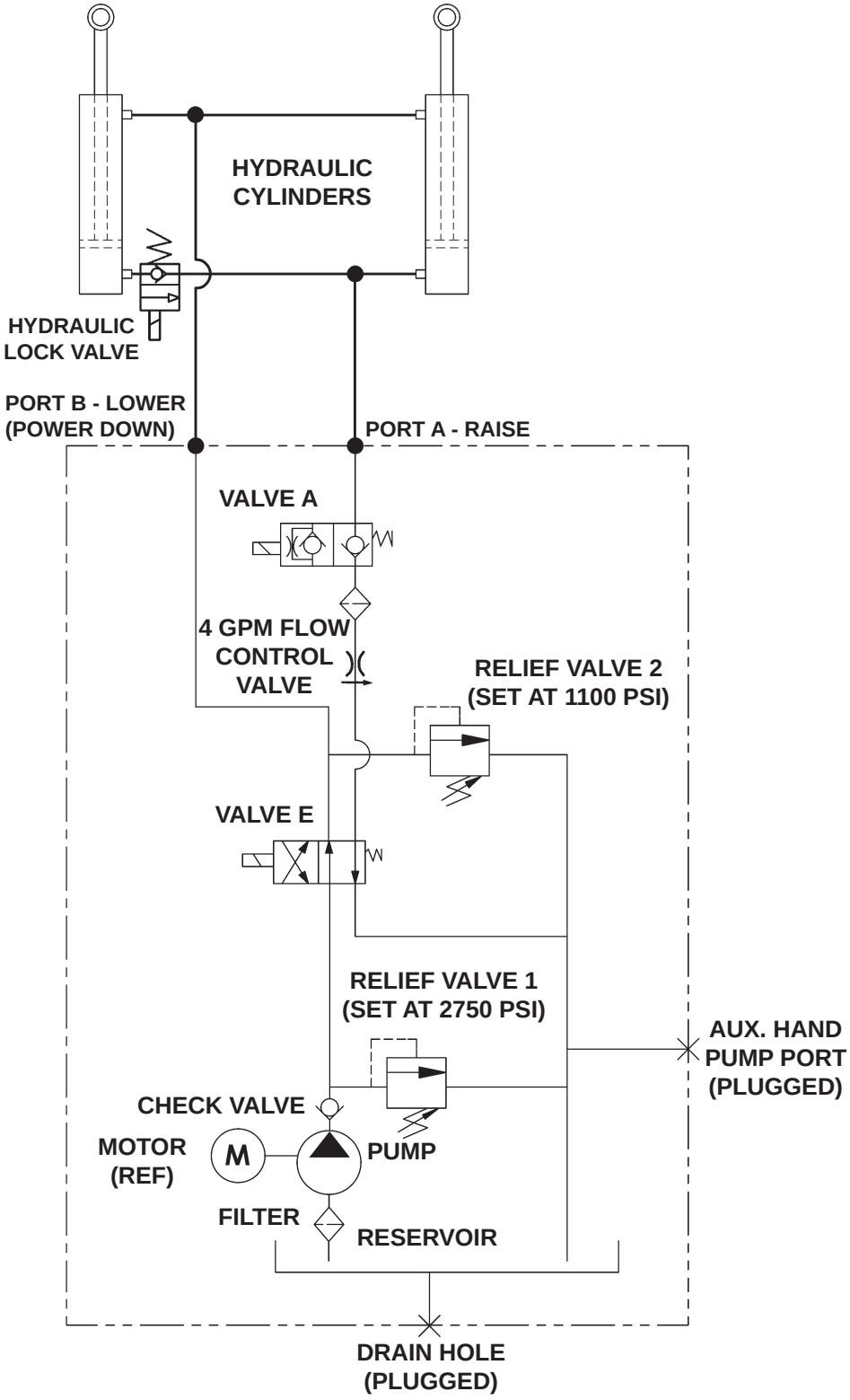


FIG. 65-1

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ELECTRICAL SCHEMATIC (POWER DOWN)

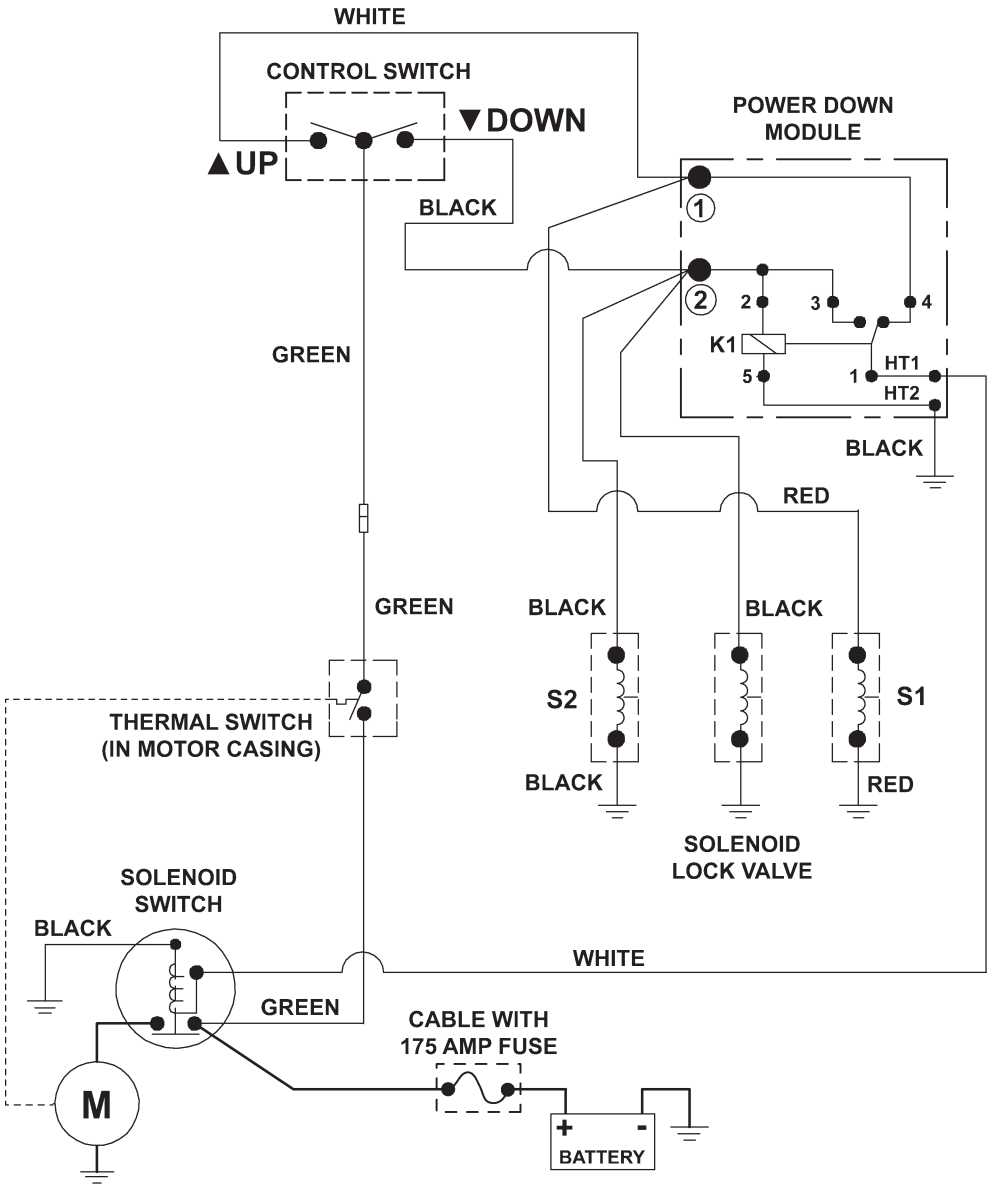

FIG. 66-1

OPTIONS
OPTIONAL LIFTGATE COMPONENTS

MISCELLANEOUS KITS	PART NO.
FRAMELESS TRAILER BRACKET, MOUNTING	282665-01
FRAMELESS TRAILER BRACKET, MOUNTING (GALVANIZED)	282665-01G
FRAMELESS TRAILER BRACKET, MOUNTING (REFRIGERATOR TRAILERS)	282970-01
FRAMELESS TRAILER BRACKET, MOUNTING (GALVANIZED) (REFRIGERATOR TRAILERS)	282970-01G
FRAME MOUNTING BRACKET FOR 2 OVAL LIGHTS (PAINTED BLACK)	282372-01
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 KIT, GPT SERIES	296075-01
TRAFFIC CONES	268893
EXTENSION PLATE HARDWARE KIT (96” & 102” WIDE VEHICLE)	283257-02
ELECTRICAL KITS	
IN CAB ON-OFF SWITCH	250477
CIRCUIT BREAKER (150 AMP)	251576
GROUND CABLE, 2 GAUGE X 38’ LG.	269190-01
CYCLE COUNTER, GPT	282520-02
HAND HELD CONTROL, GPT	263260-12
STREET SIDE CONTROL, GPT	297162-01
DUAL SWITCH CONTROL, GPT	297161-01
REAR END PROTECTION KITS FOR TRUCKS AND TRAILERS	
UNDERRIDE, 90", GPT-4 & GPT-5 (PAINTED) **NOTE:** COMPLIES WITH CANADIAN MVS REGULATIONS & FMVSS “REAR IMPACT GUARD” REQUIREMENTS	287050-01
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 (PAINTED) **NOTE:** COMPLIES WITH CANADIAN MVS REGULATIONS & FMVSS “REAR IMPACT GUARD” REQUIREMENTS	287050-02
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 (PAINTED) **NOTE:** COMPLIES WITH FMVSS “REAR IMPACT GUARD” REQUIREMENTS	287050-03
UNDERRIDE, 90", GPT-25 & GPT-3 (GALVANIZED) **NOTE:** COMPLIES WITH FMVSS “REAR IMPACT GUARD” REQUIREMENTS	287050-03G
UNDERRIDE, 95", GPT-25 & GPT-3 (PAINTED) **NOTE:** COMPLIES WITH FMVSS “REAR IMPACT GUARD” REQUIREMENTS	287050-04
UNDERRIDE, 95", GPT-25 & GPT-3 (GALVANIZED) **NOTE:** COMPLIES WITH FMVSS “REAR IMPACT GUARD” REQUIREMENTS	287050-04G
ICC BUMPER (PAINTED) **NOTE:** COMPLIES WITH OMCS REQUIREMENTS	283270-01
ICC BUMPER (GALVANIZED) **NOTE:** COMPLIES WITH OMCS REQUIREMENTS	283270-01G
DUAL STEP DOCK BUMPER KITS WITH BUMPERS	
DUAL STEP (PAINTED) WITH 14” LG. POLYETHYLENE BUMPERS (2.5W X 3”H X 24” LG)	288705-01
DUAL STEP (GALVANIZED) WITH 14” LG. RUBBER BUMPERS (2.5W X 3”H X 24” LG)	288705-01G
DUAL STEP (PAINTED) WITH 13.5” LG. RUBBER BUMPERS (2.9”W X 1.5”H X 14”LG)	288705-02
DUAL STEP (GALVANIZED) WITH 13.5” LG. RUBBER BUMPERS (2.9”W X 1.5”H X 14”LG)	288705-02G
DUAL FLEX STEP (PAINTED) WITH 14” LG. RUBBER BUMPERS (2.5W X 3”H X 14” LG)	288705-21

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OPTIONAL LIFTGATE COMPONENTS - Continued

DUAL STEP DOCK BUMPER KITS WITH BUMPERS - CONTINUED	
DUAL FLEX STEP (GALVANIZED), 14” LG. RUBBER BUMPERS (2.5W X 3”H X 14” LG)	288705-21G
DUAL FLEX STEP, (PAINTED), 13.5” LG. RUBBER BUMPER WITH FLEXIBLE WIRE ROPE LOWER STEP & 2.9”WX1.5”HX14”LG. RBR BUMPERS	288705-22
DUAL FLEX STEP (GALVANIZED),13.5” LG. RUBBER BUMPER WITH FLEXIBLE WIRE ROPE LOWER STEP & 2.9”WX1.5”HX14”LG. RBR BUMPERS	288705-22G
DUAL STEPS (PAINTED) W/LIGHT, 14” LG. RUBBER BUMPERS	288705-31
DUAL STEP W/LIGHT (GALVANIZED), 14” LG. RUBBER BUMPERS	288705-31G
DUAL STEPS W/LIGHT (PAINTED), 13.5” LG. POLYETHYLENE BUMPERS	288705-32
DUAL STEPS W/LIGHT (GALVANIZED), 13.5” LG. POLYETHYLENE BUMPERS	288705-32G
DUAL STEP (PAINTED), CURB SIDE, 14” LG. RUBBER BUMPERS	288705-03
DUAL STEP (GALVANIZED), CURB SIDE, 14” LG. RUBBER BUMPERS	288705-03G
DUAL STEP (PAINTED), CURB SIDE, 13.5 LG. POLYETHYLENE BUMPERS	288705-04
DUAL STEP (GALVANIZED), CURB SIDE, 13.5 LG. POLYETHYLENE BUMPERS	288705-04G
DUAL FLEX STEP (PAINTED), STREET SIDE, NO STEPS, 14” LG. RUBBER BUMPERS	288705-23
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	288705-24
DUAL FLEX STEP (PAINTED), STREET SIDE, NO STEPS, 13.5” LG. RUBBER BUMPERS	288705-24G
DUAL STEP W/LIGHT, (PAINTED) CURB SIDE, 14” LG. RUBBER BUMPERS	288705-33
DUAL STEP W/LIGHT, (GALVANIZED) CURB SIDE, 14” LG. RUBBER BUMPERS	288705-33G
DUAL STEP W/LIGHT, (PAINTED) CURB SIDE, 13.5” LG. RUBBER BUMPERS	288705-34
DUAL STEP W/LIGHT, (GALVANIZED) CURB SIDE, 13.5” LG. RUBBER BUMPERS	288705-34G
SINGLE STEP DOCK BUMPER KITS WITH BUMPERS	
SINGLE STEP (PAINTED),14” RUBBER BUMPERS (2.5”w X 3”H x 14”)	288705-11
SINGLE STEP (PAINTED),14” PE BUMPERS (2.5”w X 1.5”H x 14”	288705-12
SINGLE STEP (GALVANIZED),14” RUBBER BUMPERS (2.5”w X 3”H x 14”)	288705-11G
SINGLE STEP (GALVANIZED),14” RUBBER BUMPERS (2.5”w X 3”H x 14”)	288705-12G
SINGLE STEP (PAINTED), SS NO STEPS 14” RUBBER BUMPERS (2.5”w X 3”H x 14”)	288705-13
SINGLE STEP (GALVANIZED), SS NO STEPS 14” RUBBER BUMPERS (2.5”w X 3”H x 14”)	288705-13G
SINGLE STEP (PAINTED), SS NO STEPS 13.5” PE BUMPERS (2.5”w X 3”H x 14”)	288705-14
SINGLE STEP (GALVANIZED), SS NO STEPS 13.5” PE BUMPERS (2.5”w X 3”H x 14”)	288705-14G

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OPTIONAL LIFTGATE COMPONENTS - Continued

SINGLE STEP DOCK BUMPER KITS WITHOUT BUMPERS	
SINGLE STEP (PAINTED), NO BUMPERS	288705-15
SINGLE STEP (GALVANIZED), NO BUMPERS	288705-15G
SINGLE STEP (PAINTED), STREET SIDE, NO STEPS, NO BUMPERS	288705-16
SINGLE STEP (GALVANIZED), STREET SIDE, NO STEPS, NO BUMPERS	288705-16G
DUAL STEP DOCK BUMPER KITS WITHOUT BUMPERS	
DUAL STEP (PAINTED), NO BUMPERS	288705-05
DUAL STEP (GALVANIZED), NO BUMPERS	288705-05G
DUAL STEP (PAINTED), CURB SIDE, NO BUMPERS	288705-06
DUAL STEP (GALVANIZED), STREET SIDE, NO STEPS, NO BUMPERS	288705-06G
DUAL FLEX STEPS (PAINTED), NO BUMPERS	288705-25
DUAL FLEX STEPS (GALVANIZED), NO BUMPERS	288705-25G
DUAL STEP FLEX STEPS (PAINTED), STREET SIDE, NO BUMPERS	288705-26
DUAL STEP FLEX STEPS (GALVANIZED), STREET SIDE, NO BUMPERS	288705-26G
DUAL STEP WITH LIGHT (PAINTED), NO BUMPERS	288705-35
DUAL STEPS WITH OVAL LIGHT (GALVANIZED), NO BUMPER	288705-35G
DUAL STEP W/LIGHT (PAINTED), STREET SIDE, NO STEPS, NO BUMPERS	288705-36
DUAL STEP W/LIGHT (GALVANIZED), STREET SIDE, NO STEPS, NO BUMPERS	288705-36G
DOCK BUMPER KITS	
RUBBER BUMPER (U-SHAPE, 3”W X 2”H X 12” LG.)	288707-01
SOLID BLACK RUBBER BUMPER (2.5”W X 3”H X 24” LG.)	288706-01
DOCK-LOCK RECEIVER KITS	
DOK-LOK BUMPER, GPT-4 & GPT-5 (PAINTED), 96” WIDE VEHICLE	282164-01
DOK-LOK BUMPER, GPT-4 & GPT-5 (GALVANIZED), 96” WIDE VEHICLE	282164-01G
DOK-LOK BUMPER, GPT-4 & GPT-5 (PAINTED), 102” WIDE VEHICLE	282164-02
DOK-LOK BUMPER, GPT-4 & GPT-5 (GALVANIZED), 102” WIDE VEHICLE	282164-02G
DOK-LOK BUMPER, 96”, GPT-25 & GPT-3 (PAINTED), 96” WIDE VEHICLE	282205-01
DOK-LOK BUMPER, 96”, GPT-25 & GPT-3 (GALVANIZED), 96” WIDE VEHICLE	282205-01G
DOK-LOK BUMPER, 102”, GPT-25 & GPT-3 (PAINTED), 102” WIDE VEHICLE	282205-03
DOK-LOK BUMPER, 102”, GPT-25 & GPT-3 (GALVANIZED), 102” WIDE VEHICLE	282205-03G
EXTENSION 102” KIT	
EXTENSION KIT,102”	287095-04
EXTENSION KIT (GALVANIZED), 102”	287095-04G
TOUCH-UP PAINT KIT	
TOUCH-UP PAINT (BCG) WITH ALUMINUM PRIMER, SMALL	908134-01

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