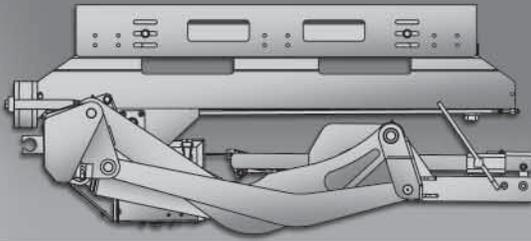


M-08-12
REV. H
APRIL 2020



MAXON[®] GPSLR Series

INSTALLATION MANUAL

GPSLR-33 & GPSLR-44

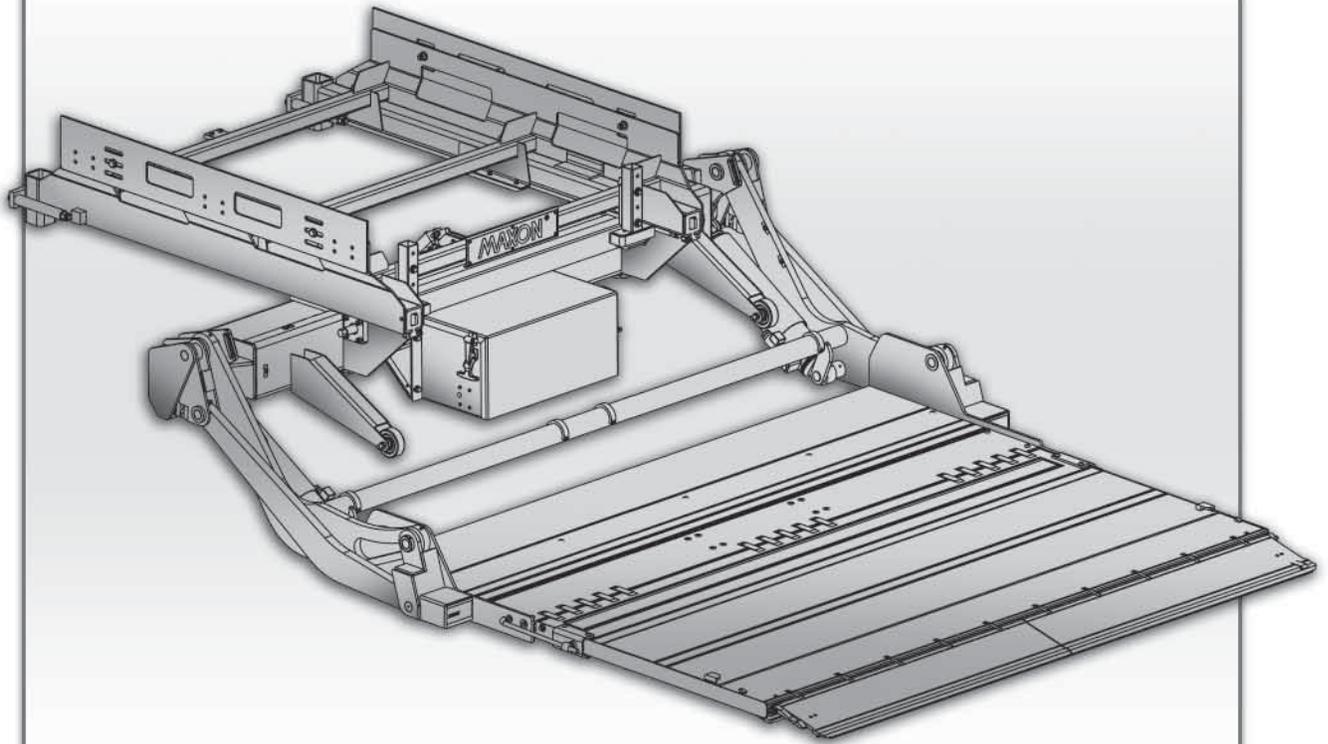


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SUMMARY OF CHANGES: M-08-12, REVISION H

| PAGE | DESCRIPTION OF CHANGE |
|-----------|--|
| COVER | Updated REV, date of release and cover image. |
| - | Cover image and applicable Illustrations throughout manual are updated to show new impact-absorbing tubes on the back of the slider frame. |
| - | This contents of this manual applies only to GPSLR liftgates equipped with standard control switches. All information about SmartStow controls was removed. |
| 5 | Added California Proposition 65 warning. |
| 7 | Removed installation parts box for GPSLR liftgates that were equipped with SmartStow. |
| 9, 10, 11 | Revised dimension "A" clearance in figures from top of floor to bottom of crossmember. Revised dimension "A" crossmember sizes in Tables 9-1, 10-1 & 11-1. |
| 25 | Added Table 25-3 for correct mounting distance and slot information for refrigerated trailers. |
| 31-38 | Updated battery box installation procedure. |
| 42,43 | Added STEP 10 for CHECKING HYDRAULIC FLUID and added Phillips 66 Arctic Low Pour oil to table of recommended ISO-15 oils. Step titles after STEP 10 are renumbered. |
| 49 | Added CAUTIONS for preparing painted bracket for welding and protecting hydraulic hoses near the welds. |
| 51 | Changed Operation decal to latest decal with QR code and added decal with parts QR code. |
| 53 | Added MAXGRIP decal for platforms with knurled surface. |
| 54 | Decal H updated to show new retention ramp. |
| 55 | Changed PRV setting to 1500 PSI on Hydraulic Schematic. |
| 59 | Added Pre-Delivery Inspection Form. |

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

WARNING

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

WARNING

- Do not stand, or allow obstructions, under the platform when lowering the Liftgate. **Be sure your feet are clear of the Liftgate.**
- **Keep fingers, hands, arms, legs, and feet clear of moving Liftgate parts (and platform edges) when operating the Liftgate.**
- **Correctly stow platform when not in use. Extended platforms could create a hazard for people and vehicles passing by.**
- **Make sure vehicle battery power is disconnected** while installing Liftgate. Connect vehicle battery power to the Liftgate only when installation is complete or as required in the installation instructions.
- If it is necessary to stand on the platform while operating the Liftgate, keep your feet and any objects clear of the inboard edge of the platform. Your feet or objects on the platform can become trapped between the platform and the Liftgate extension plate.
- Never perform unauthorized modifications on the Liftgate. Modifications may result in early failure of the Liftgate and may create hazards for Liftgate operators and maintainers.
- Recommended practices for welding on steel parts are contained in the current **AWS (American Welding Society) D1.1 Structural Welding Code - Steel**. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.
- Recommended practices for welding galvanized steel are contained in the current **AWS (American Welding Society) D19.0 Welding Zinc-Coated Steel**. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.

SAFETY INSTRUCTIONS

- Read and understand the instructions in this **Installation Manual** before installing Liftgate.
- Before operating the Liftgate, read and understand the operating instructions in **Operation Manual**.
- Comply with all **WARNING** and instruction decals attached to the Liftgate.
- Keep decals clean and legible. If decals are illegible or missing, replace them. Free replacement decals are available from **Maxon Customer Service**.
- Consider the safety and location of bystanders and location of nearby objects when operating the Liftgate. Stand to one side of the platform while operating the Liftgate.
- Do not allow untrained persons 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.

GPSLR INSTALLATION PARTS BOX

| | NOMENCLATURE OR DESCRIPTION | QTY. | PART NUMBER |
|------------|---|------|-------------|
| REF | PARTS BOX, GPSLR MOUNTING (NO CONTROLLER) | 1 | 268801-02 |
| 1 | FLAT WASHER, 1/2" | 24 | 902013-13 |
| 2 | FLANGE LOCK NUT | 12 | 901023 |
| 3 | HEX FRAME BOLT, 1/2"-13 X 1-3/4" LG. | 12 | 901024-2 |
| 4 | SUPPORT PLATE, 7-7/8" LG. | 4 | 268675-02 |
| 5 | TAP SCREW, 10-24 X 1" LG. | 6 | 030444-01 |
| 6 | ANGLE, 2" X 2" X 1/8" X 6" LG. | 2 | 091068-17 |
| 7 | MOUNTING PLATE | 6 | 268676-01 |
| 8 | SUPPORT PLATE | 6 | 268675-01 |
| 9 | MOUNTING GUSSET | 8 | 268674-01 |
| 10 | SAFETY STOW CHAIN | 1 | 287132-01 |

**GPSLR PARTS BOX
TABLE 7-1**

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

VEHICLE REQUIREMENTS

CAUTION

The sliding axle assembly on a trailer can collide with a Liftgate mounted on the slide rails. To prevent damage to Liftgate and trailer, install stops on the slide rails to keep the sliding axles from hitting Liftgate. Refer to Liftgate clearance dimensions in this section of the manual.

NOTE: BODY maximum and minimum operating bed height:

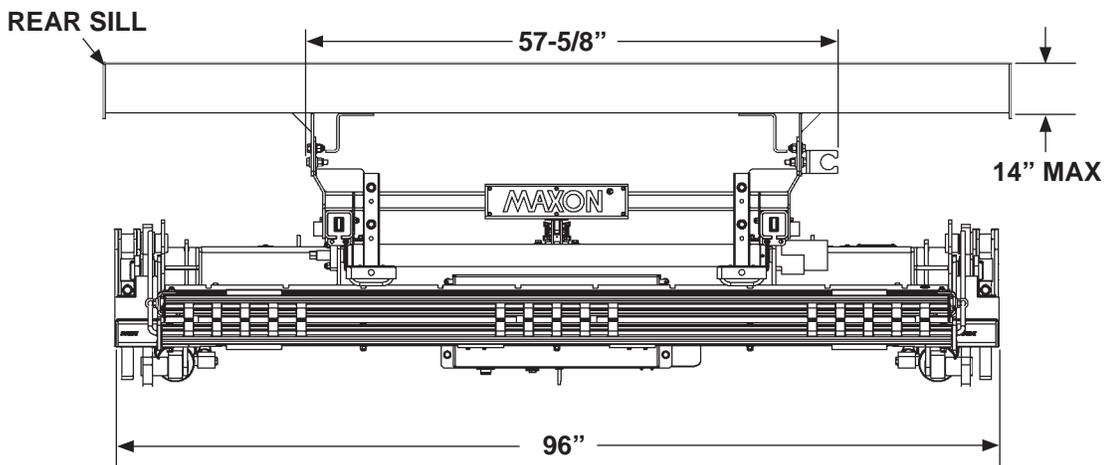
Maximum height is **53"** (Unloaded). Minimum height is **46"** (Loaded).
On vehicle bodies equipped with swing-open doors, the platform may have to be modified to install this Liftgate.

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.
For detailed ground clearance information, refer to the **WELD SIDE PLATE** procedure in this manual.

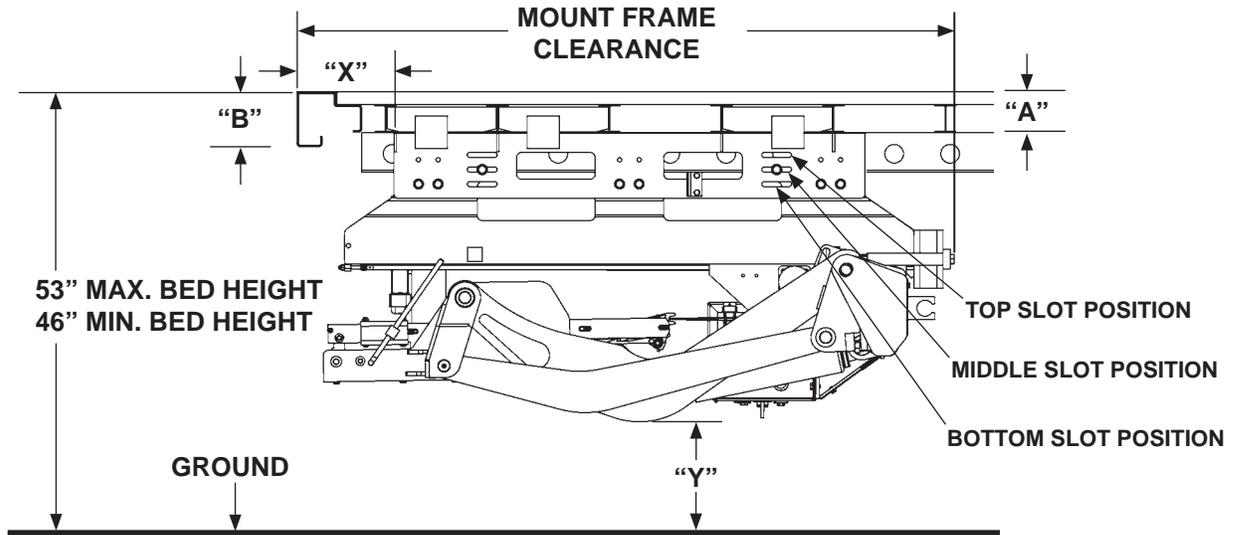
Check for correct clearances (**FIGS. 8-1 to 12-2**) on vehicle to prevent interference between vehicle and Liftgate.

NOTE: For installation of this Liftgate, the maximum allowable thickness of the vehicle body rear sill is 14".



**OVERALL WIDTH OF GPSLR LIFTGATE & MOUNTING FRAME
FIG. 8-1**

VEHICLE REQUIREMENTS - Continued

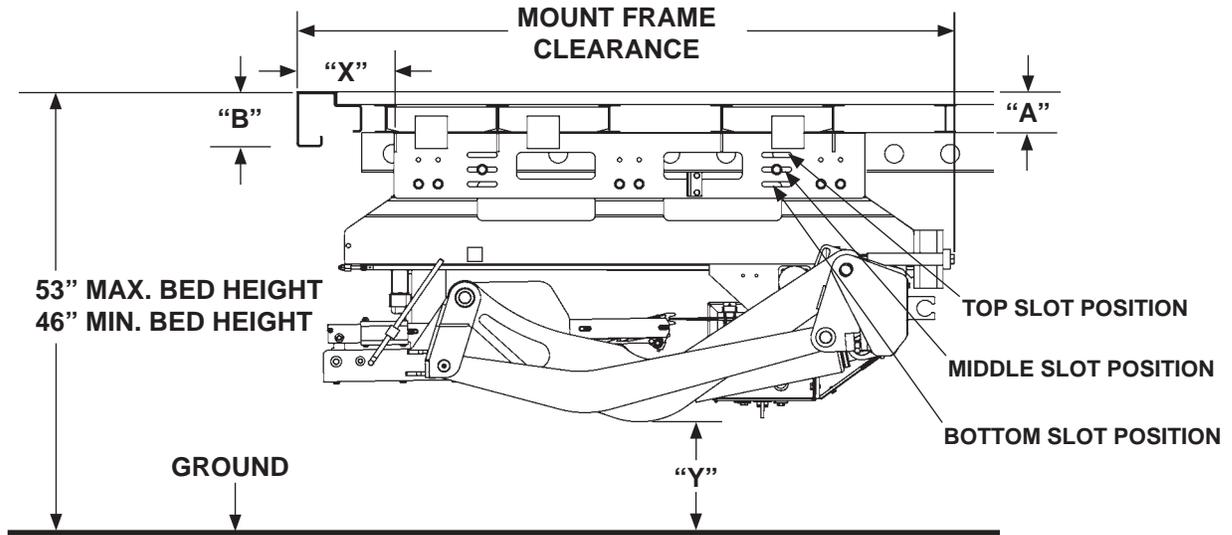


**CLEARANCES FOR GPSLR MOUNTED ON DRY TRAILER
FIG. 9-1**

| DRY TRAILER | | | | | | |
|-------------|------------|----------|--------------------|---------------|-----------------------|----------------------|
| "A" | BED HEIGHT | "X" | MAX SILL DEPTH "B" | SLOT POSITION | MOUNT FRAME CLEARANCE | GROUND CLEARANCE "Y" |
| 4-3/4" | 46" | 10-3/8" | 12" | MIDDLE | 79-5/8" | 14-7/16" |
| | 47" | | | | | 15-7/16" |
| | 48" | | | | | 16-7/16" |
| | 49" | | | | | 17-7/16" |
| | 50" | | | | | 18-7/16" |
| | 51" | 19-7/16" | | | | |
| | 52" | 9-1/8" | 13" | BOTTOM | 78-3/8" | 17-13/16" |
| 53" | 18-13/16" | | | | | |
| 5-3/16" | 46" | 10-3/4" | 12" | TOP | 80" | 14-15/16" |
| | 47" | | | | | 15-15/16" |
| | 48" | | | | | 16-15/16" |
| | 49" | 9-9/16" | 13" | MIDDLE | 78-3/4" | 16-7/16" |
| | 50" | | | | | 17-7/16" |
| | 51" | | | | | 18-7/16" |
| | 52" | | | | | 8-1/4" |
| 53" | 18-15/16" | | | | | |

TABLE 9-1

VEHICLE REQUIREMENTS - Continued

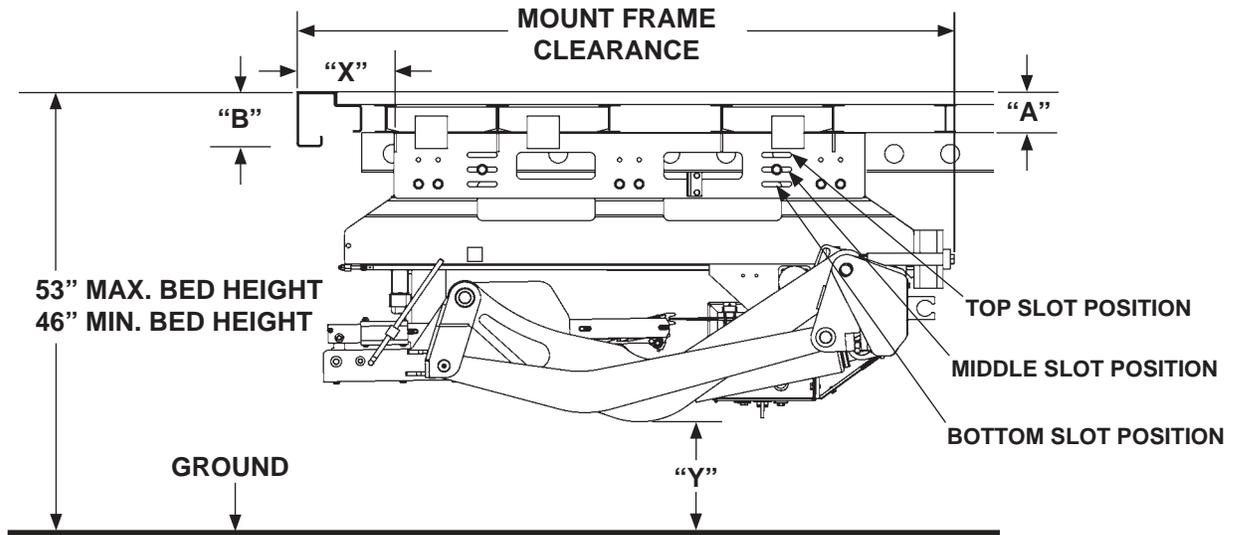


**CLEARANCES FOR GPSLR MOUNTED ON REFRIGERATED TRAILER
FIG. 10-1**

| REFRIGERATED TRAILER | | | | | | |
|----------------------|------------|----------|--------------------|---------------|-----------------------|----------------------|
| "A" | BED HEIGHT | "X" | MAX SILL DEPTH "B" | SLOT POSITION | MOUNT FRAME CLEARANCE | GROUND CLEARANCE "Y" |
| 7-5/16" | 46" | 9" | 13-1/2" | TOP | 78-3/4" | 12-13/16" |
| | 47" | | | | | 13-13/16" |
| | 48" | | | | | 14-13/16" |
| | 49" | | | | | 15-13/16" |
| | 50" | | | | | 16-13/16" |
| | 51" | | | | | 17-13/16" |
| | 52" | | | | | 17-11/16" |
| | 53" | | | | | 18-11/16" |
| 7-13/16" | 46" | 8-17/32" | 13-1/2" | TOP | 77-3/4" | 12-5/16" |
| | 47" | | | | | 13-5/16" |
| | 48" | | | | | 14-5/16" |
| | 49" | | | | | 15-5/16" |
| | 50" | | | | | 16-5/16" |
| | 51" | | | | | 17-5/16" |
| | 52" | | | | | 17-3/16" |
| | 53" | | | | | 18-3/16" |

TABLE 10-1

VEHICLE REQUIREMENTS - Continued



**CLEARANCES FOR GPSLR MOUNTED ON REFRIGERATED TRAILER
FIG. 11-1**

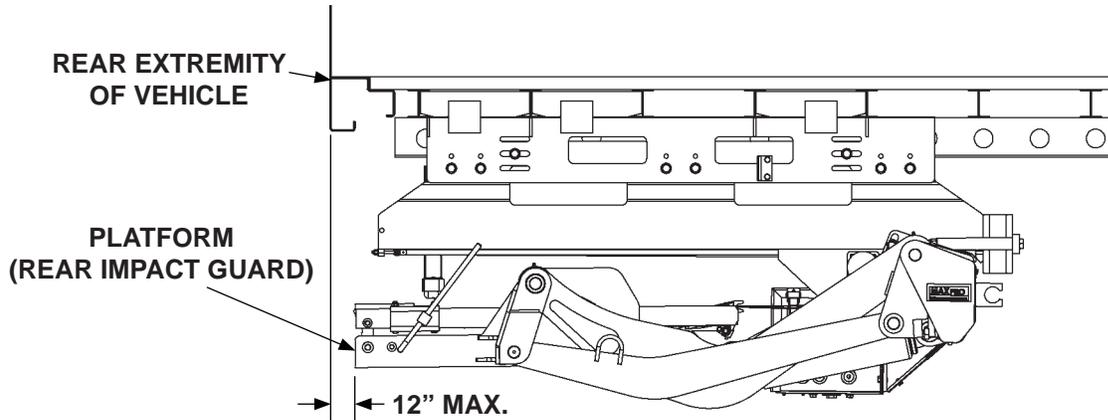
| REFRIGERATED TRAILER | | | | | | |
|----------------------|------------|---------|--------------------|---------------|-----------------------|----------------------|
| "A" | BED HEIGHT | "X" | MAX SILL DEPTH "B" | SLOT POSITION | MOUNT FRAME CLEARANCE | GROUND CLEARANCE "Y" |
| 7-5/16" | 46" | 8-1/16" | 14" | TOP | 77-9/32" | 11-13/16" |
| | 47" | | | | | 12-13/16" |
| | 48" | | | | | 13-13/16" |
| | 49" | | | | | 14-13/16" |
| | 50" | | | | | 15-13/16" |
| | 51" | | | | | 16-13/16" |
| | 52" | | | | | 17-13/16" |
| | 53" | | | | | 17-21/32" |
| 7-13/16" | 46" | 7-5/8" | 14" | TOP | 76-7/8" | 11-5/16" |
| | 47" | | | | | 12-5/16" |
| | 48" | | | | | 13-5/16" |
| | 49" | | | | | 14-5/16" |
| | 50" | | | | | 15-5/16" |
| | 51" | | | | | 16-5/16" |
| | 52" | | | | | 17-5/16" |
| | 53" | | | | | 18-5/16" |

TABLE 11-1

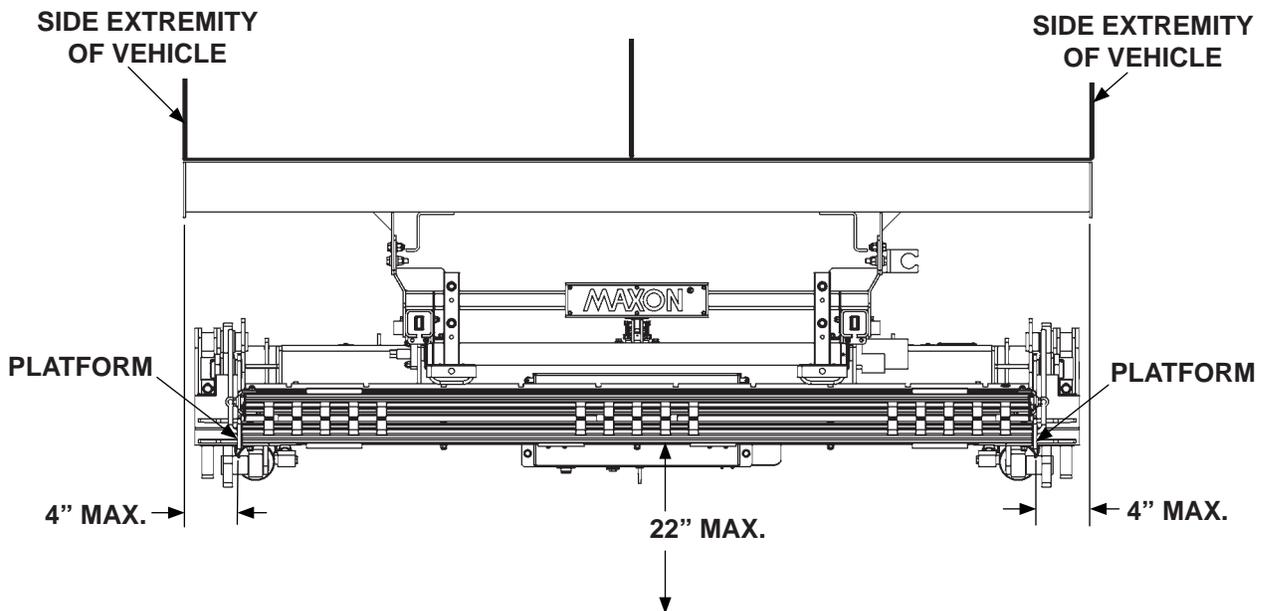
VEHICLE REQUIREMENTS - Continued

REAR IMPACT GUARD

NOTE: The stowed GPSLR platform functions as a rear impact guard for vehicle. To comply with current Federal Motor Vehicle Safety Standards (**FMVSS 223**) and Canadian Motor Vehicle Safety Standards (**CMVSS 223**), the rear impact guard must be within the rear-end, side, and ground clearances shown in **FIGS. 12-1 and 12-2**.



REQUIRED REAR-END CLEARANCES OF REAR IMPACT GUARD
FIG. 12-1



REQUIRED GROUND & SIDE CLEARANCES OF REAR IMPACT GUARD
FIG. 12-2

STEP 1 - REMOVE SIDE PLATES

1. Disconnect conduit from right side plate as shown in FIG. 13-1.

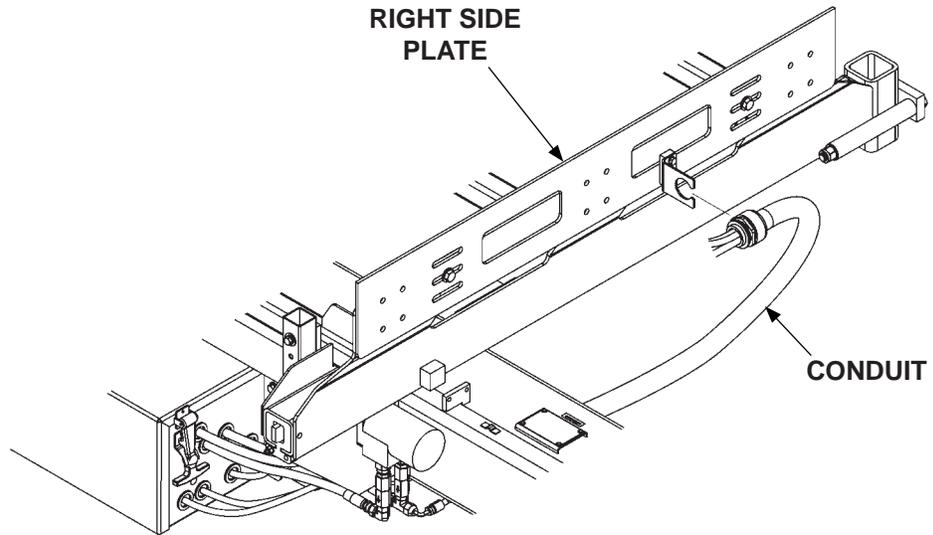


FIG. 13-1

STEP 1 - REMOVE SIDE PLATES - Continued

NOTE: Save bolts, nuts, and flat washers for reinstallation.

2. Unbolt side plates as shown in FIG. 14-1.

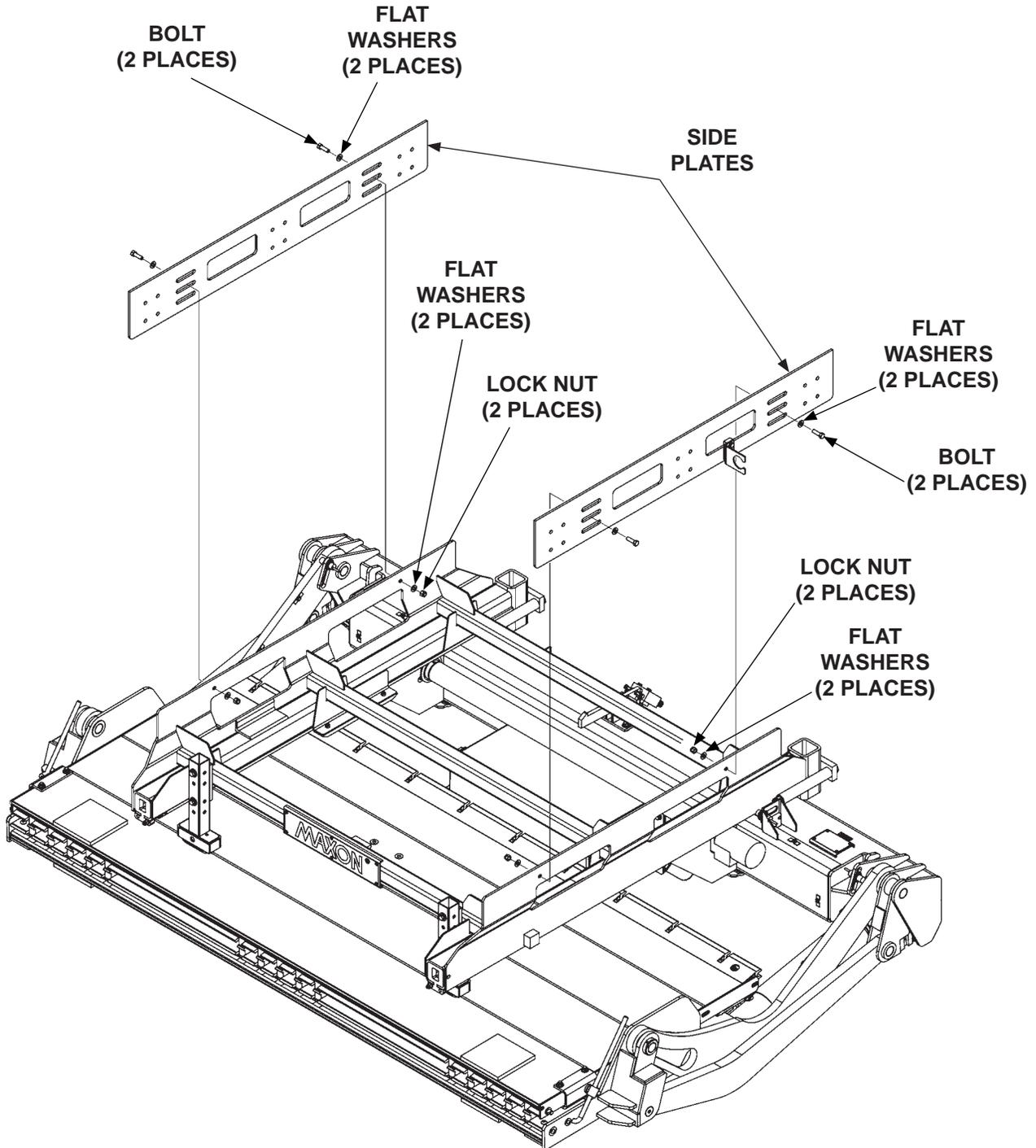


FIG. 14-1

STEP 2 - WELD SIDE PLATE

NOTE: Parts box contains 2 angle steel pieces for positioning side plates under vehicle body. The angles allow side plates to be positioned and clamped to bottom of chassis crossmembers before welding the side plates.

1. Position RH side plate with rounded corners facing up (**FIG. 15-1**).

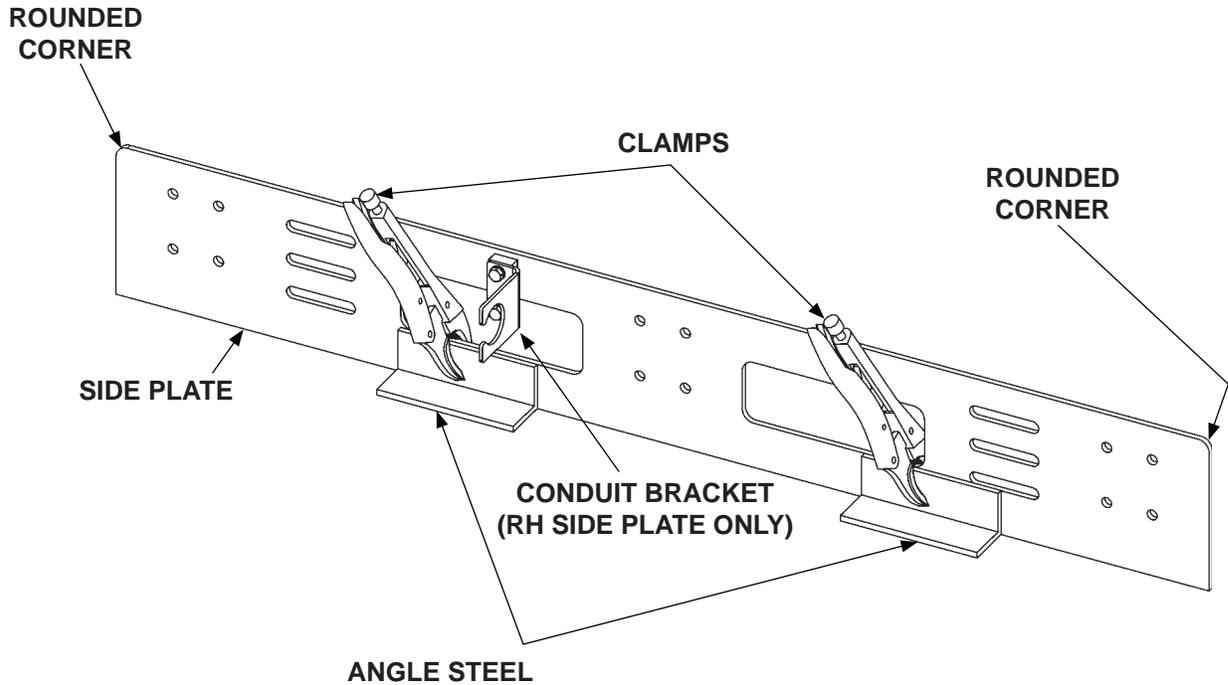


FIG. 15-1

NOTE: Angle steel pieces must be butted against the side plate and flush with the edge of the side plate. Each angle must be positioned to butt against a chassis crossmember under the vehicle.

2. Clamp 2 pieces of angle steel to side plate as shown in **FIG. 15-1**.

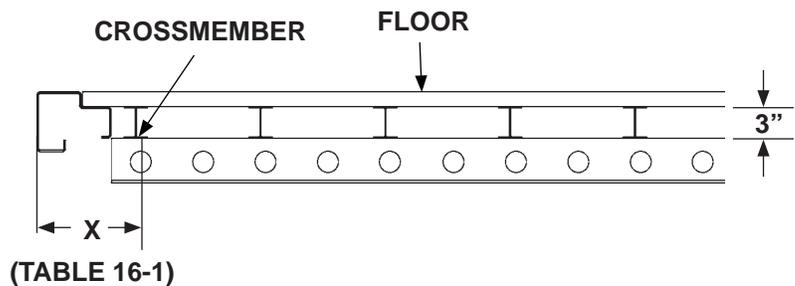
STEP 2 - WELD SIDE PLATE - Continued

NOTE: The instruction below only applies to trailers with 3" crossmembers. If trailer has 4" crossmembers, go to the next page.

NOTE: To mark a position between 2 crossmembers, attach tape from crossmember-to-crossmember. Remove slack before marking the tape.

NOTE: If vehicle bed height is a fractional number between the whole numbers shown in **TABLE 16-1**, round to the closest whole number. For example, round **51-1/4" BED HEIGHT to 51"** and round **51-1/2" BED HEIGHT to 52"**.

- For 3" trailer crossmembers, mark position for side plate on crossmember (**FIG. 16-1** and **TABLE 16-1**).



**SIDE VIEW - 3" TRAILER CROSSMEMBERS
FIG. 16-1**

| BED HEIGHT | DISTANCE ("X") | EXPECTED GROUND CLEARANCE ("Y") |
|------------|----------------|---------------------------------|
| 46" | 10-3/8" | 12-1/8" |
| 47" | 10-3/8" | 13-1/8" |
| 48" | 10-3/8" | 14-1/8" |
| 49" | 10-3/8" | 15-1/8" |
| 50" | 10-3/8" | 16-1/8" |
| 51" | 10-3/8" | 17-1/8" |
| 52" | 9-1/8" | 16-5/8" |
| 53" | 9-1/8" | 17-5/8" |

TABLE 16-1

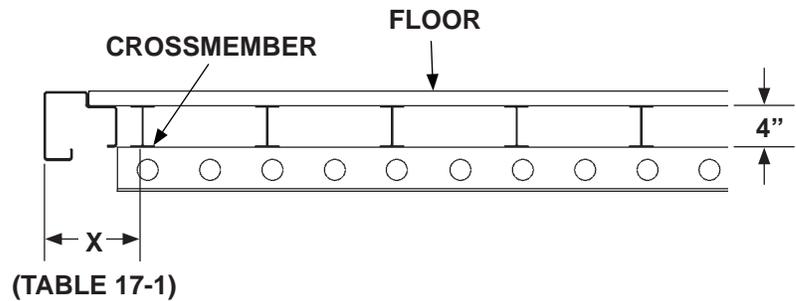
STEP 2 - WELD SIDE PLATE - Continued

NOTE: The instruction below only applies to trailers with 4" crossmembers. If trailer has 3" crossmembers, go to the previous page.

NOTE: To mark a position between 2 crossmembers, attach tape from crossmember-to-crossmember. Remove slack before marking the tape.

NOTE: If vehicle bed height is a fractional number between the whole numbers shown in **TABLE 17-1**, round to the closest whole number. For example, round **48-1/4" BED HEIGHT to 48"** and round **48-1/2" BED HEIGHT to 49"**.

4. For 4" trailer crossmembers, mark position for side plate on crossmember (**FIG. 17-1** and **TABLE 17-1**).



**SIDE VIEW - 4" TRAILER CROSS MEMBERS
FIG. 17-1**

| BED HEIGHT | DISTANCE ("X") | EXPECTED GROUND CLEARANCE ("Y") |
|------------|----------------|---------------------------------|
| 46" | 10-3/4" | 12-5/8" |
| 47" | 10-3/4" | 13-5/8" |
| 48" | 10-3/4" | 14-5/8" |
| 49" | 9-9/16" | 14-1/8" |
| 50" | 9-9/16" | 15-1/8" |
| 51" | 9-9/16" | 16-1/8" |
| 52" | 8-1/4" | 15-5/8" |
| 53" | 8-1/4" | 16-5/8" |

TABLE 17-1

STEP 2 - WELD SIDE PLATE - Continued

5. Refer to **FIG. 18-1**. Measure the distance (“D”) between slide rails. Then calculate dimension “Y” as follows: $(52\ 7/8" - D) \times 1/2 = Y$

Example where $D = 50"$:

$$Y = (52\ 7/8" - 50") \times 1/2, Y = 2\ 7/8" / 2, Y = 1\ 7/16"$$

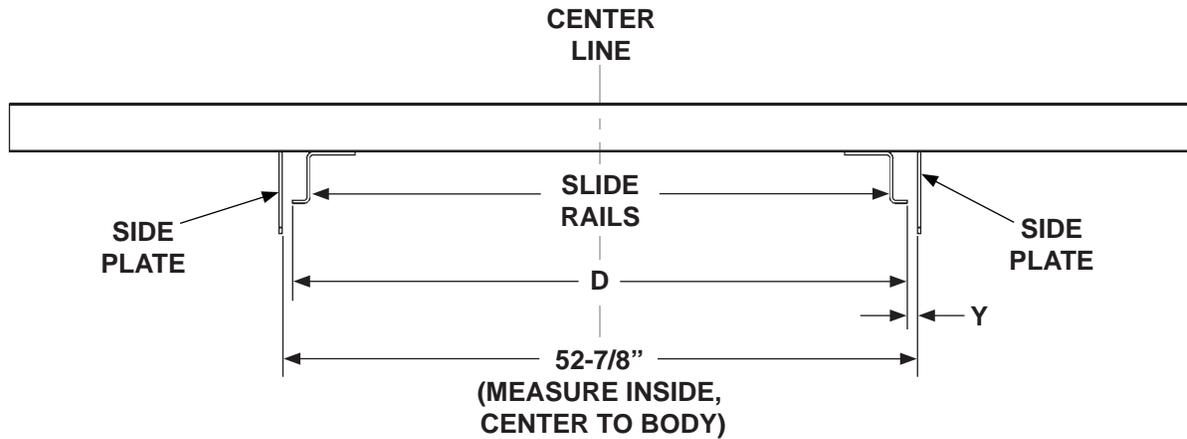


FIG. 18-1

6. Adjust a combination square to the “Y” dimension (**FIG. 18-2**) or fabricate a spacer equal to the thickness of “Y”.

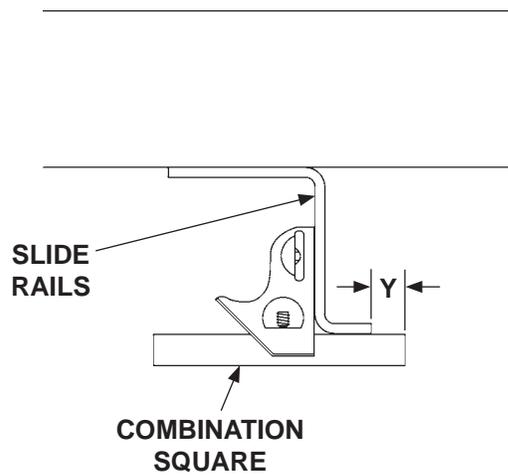


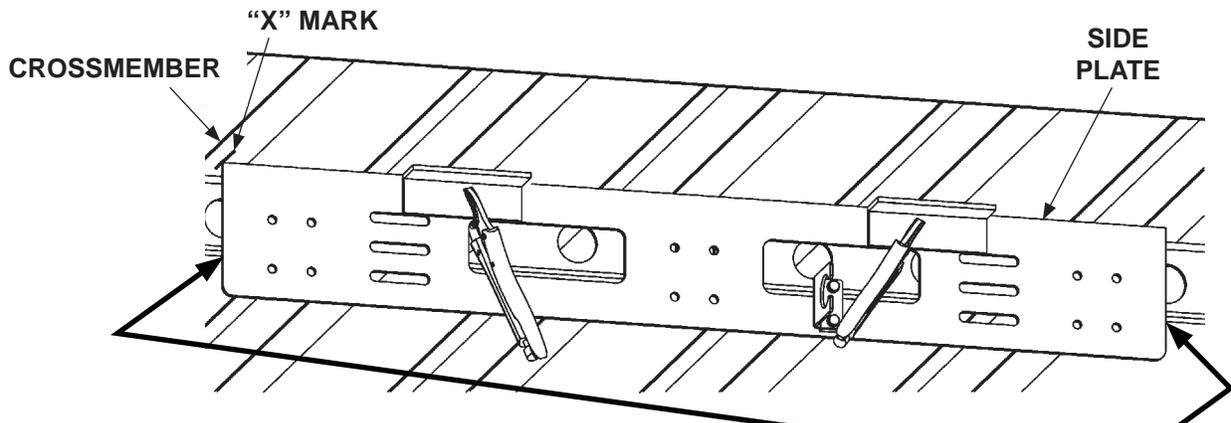
FIG. 18-2

STEP 2 - WELD SIDE PLATE - Continued

⚠ CAUTION

To avoid personal injury, use at least 2 people to position the side plate.

7. Line up end of the side plate with "X" mark on crossmember (FIG. 19-1A) and with the slide rail (FIG. 19-1B).



ALIGNING SIDE PLATE
FIG. 19-1A

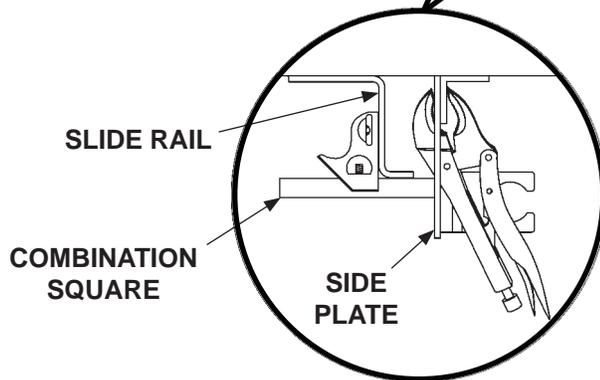


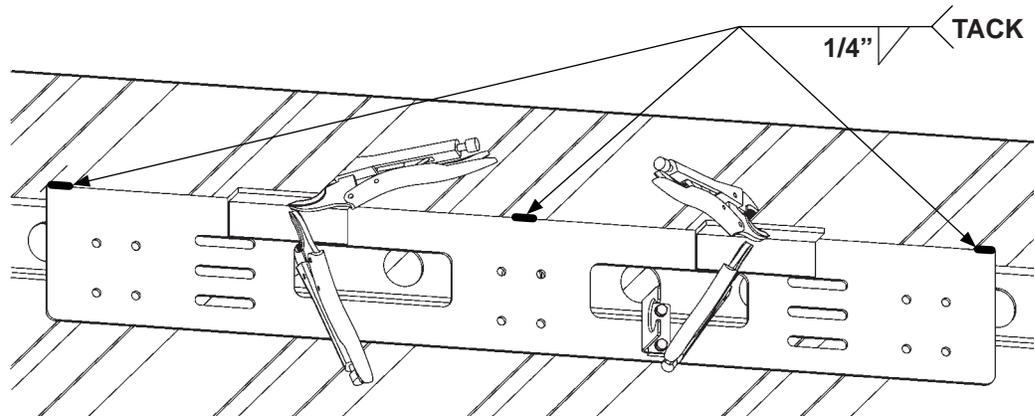
FIG. 19-1B

STEP 2 - WELD SIDE PLATE - Continued

CAUTION

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

8. Tack weld side plate as shown in FIG. 20-1.

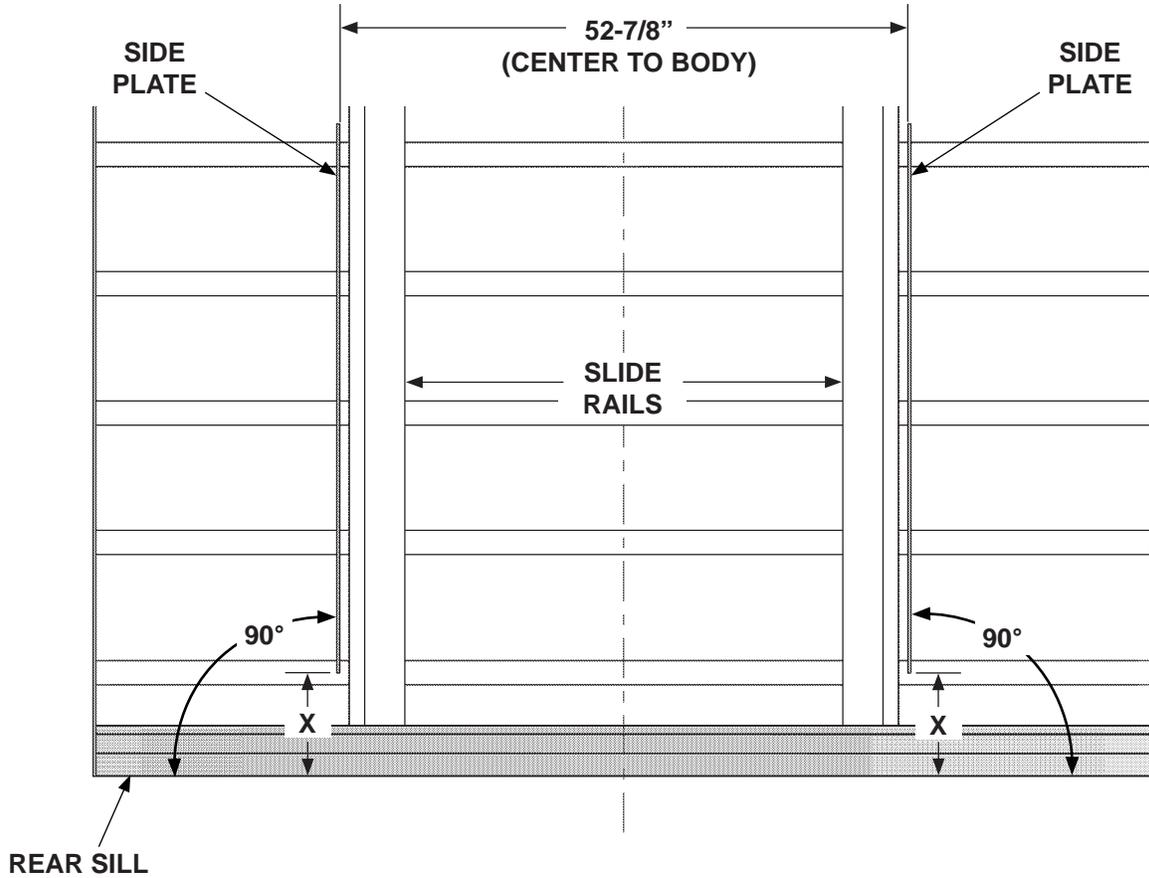


TACK WELDING SIDE PLATES TO CROSSMEMBER
FIG. 20-1

9. Remove clamps and the 2 angles.
10. Repeat 1 through 9 for the LH side plate.

STEP 2 - WELD SIDE PLATE - Continued

11. Ensure the correct dimensions are held. For 3" crossmembers, refer to FIG. 21-1 and TABLE 21-1. For 4" crossmembers, refer to FIG. 21-1 and TABLE 21-2.



**CHECKING FOR CORRECT DIMENSIONS
FIG. 21-1**

| BED HEIGHT | DISTANCE ("X") |
|------------|----------------|
| 46" | 10-3/8" |
| 47" | 10-3/8" |
| 48" | 10-3/8" |
| 49" | 10-3/8" |
| 50" | 10-3/8" |
| 51" | 10-3/8" |
| 52" | 9-1/8" |
| 53" | 9-1/8" |

**3" CROSSMEMBERS
TABLE 21-1**

| BED HEIGHT | DISTANCE ("X") |
|------------|----------------|
| 46" | 10-3/4" |
| 47" | 10-3/4" |
| 48" | 10-3/4" |
| 49" | 9-9/16" |
| 50" | 9-9/16" |
| 51" | 9-9/16" |
| 52" | 8-1/4" |
| 53" | 8-1/4" |

**4" CROSSMEMBERS
TABLE 21-2**

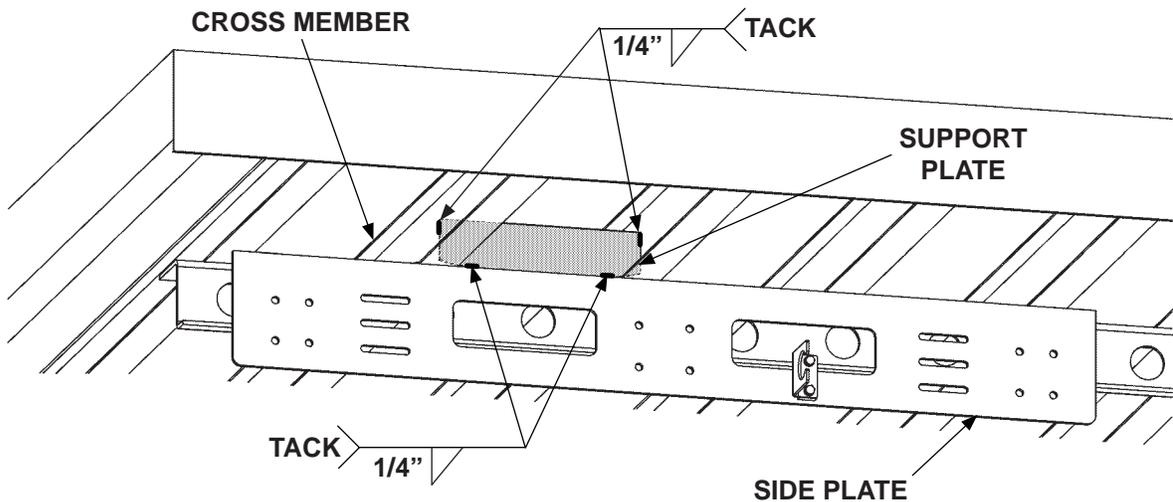
STEP 2 - WELD SIDE PLATE - Continued

CAUTION

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

NOTE: Support plates were made for crossmembers positioned at 12" center distance. If distance is less than 12", cut support plate to the applicable length.

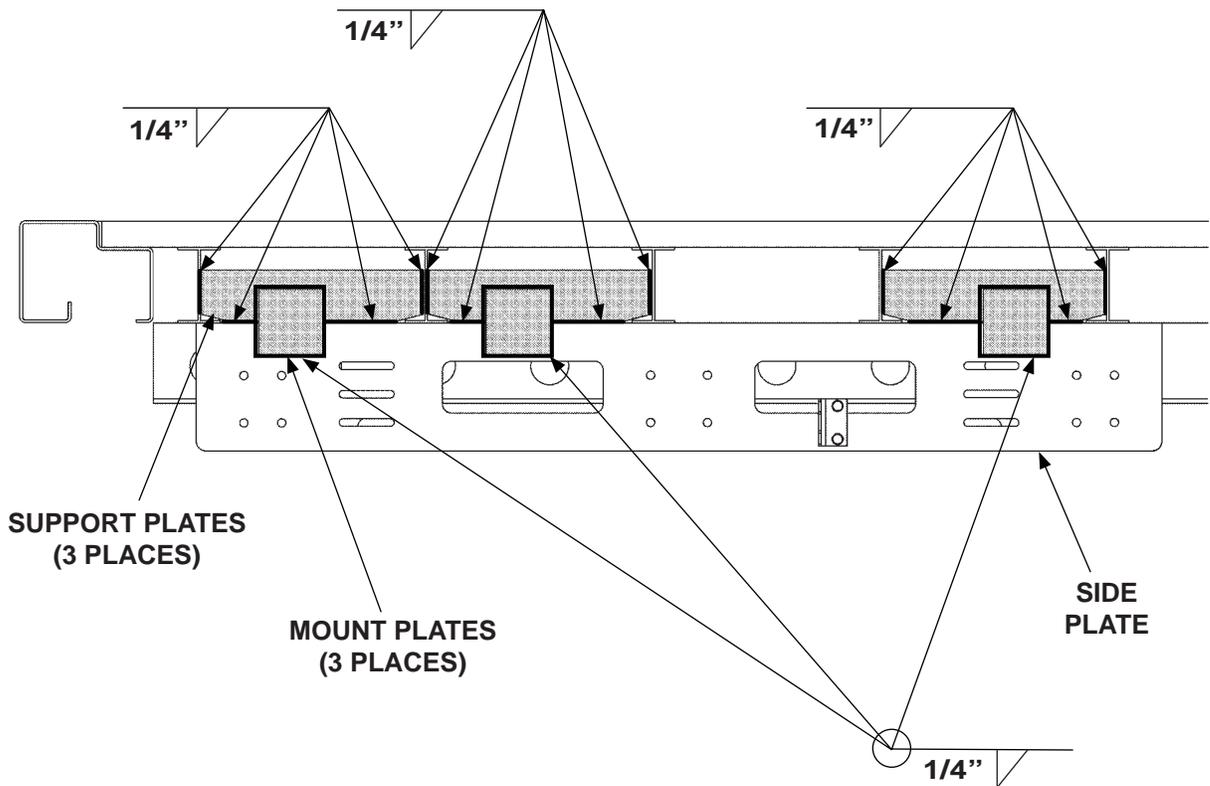
12. Tack weld RH side plate and support plate to crossmembers (**FIG. 22-1**). Repeat for LH side plate.



**TACK WELDING SIDE PLATE & SUPPORT PLATE
TO VEHICLE CROSSMEMBERS (RH SIDE SHOWN)
FIG. 22-1**

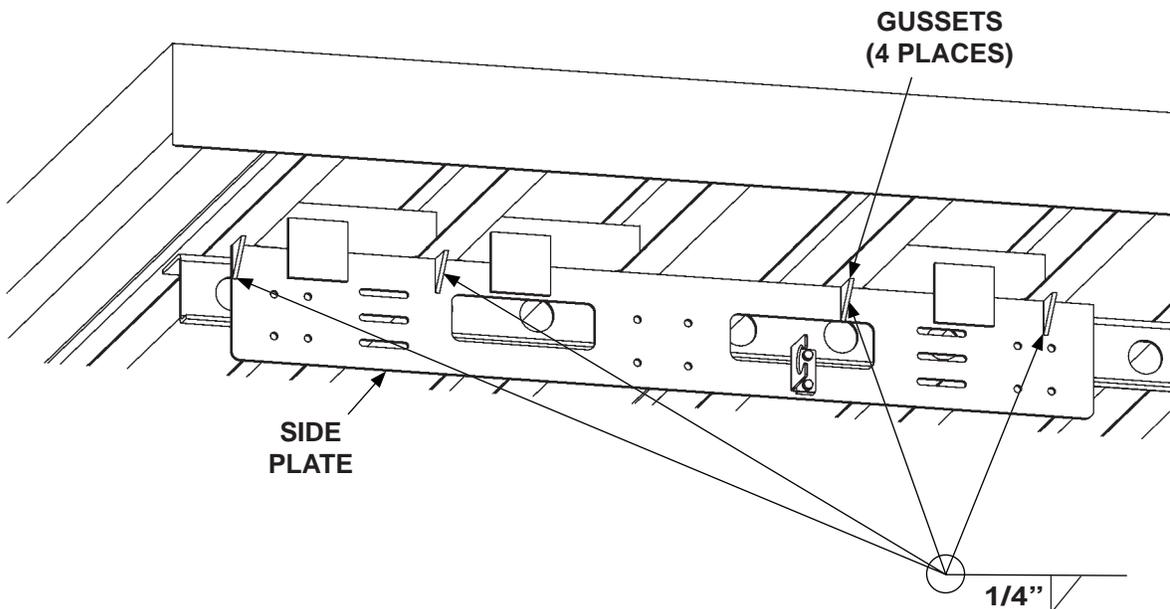
STEP 2 - WELD SIDE PLATE - Continued

13. Weld RH side plate, support plates, and mount plates as shown in FIG. 23-1. Repeat step for LH side plate.



**WELDING SIDE PLATE TO CROSSMEMBERS (RH SHOWN)
FIG. 23-1**

14. Weld gussets to RH side plate as shown in FIG. 23-2. Repeat step for LH side plate.



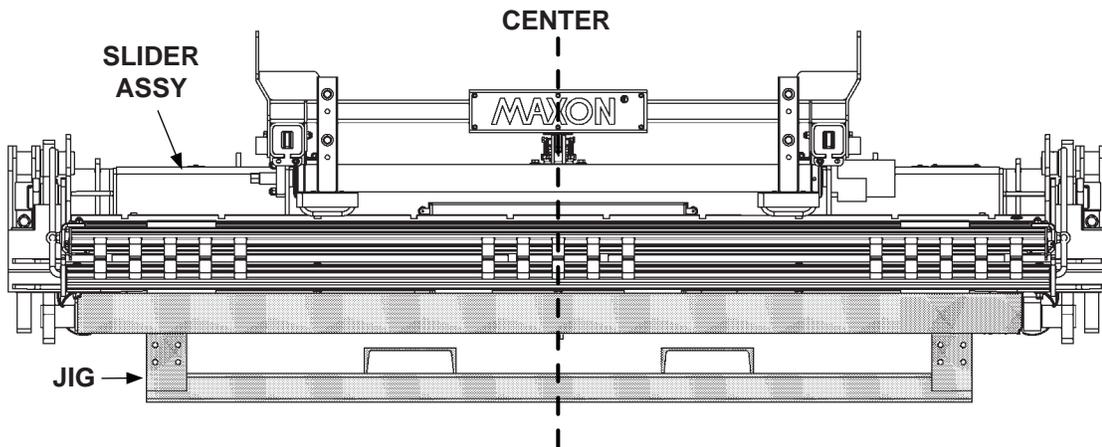
**WELDING GUSSETS TO SIDE PLATE (RH SHOWN)
FIG. 23-2**

STEP 3 - PLACE SLIDER ASSEMBLY ON OPTIONAL JIG

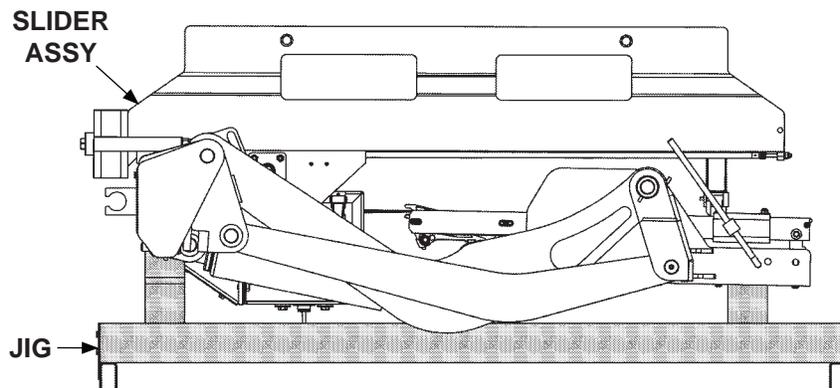
NOTE: MAXON recommends using optional installation jig for lifting and maneuvering slider assembly under the vehicle.

Use forklift to place slider assembly on the installation jig.
Ensure the slider assembly is:

- Centered on the jig (**FIG. 24-1**)
- Correctly supported by the jig (**FIG. 24-2**)



**SLIDER ASSEMBLY CENTERED
ON JIG (FRONT VIEW)
FIG. 24-1**



**SLIDER ASSEMBLY SUPPORTED
BY JIG (LH SIDE VIEW)
FIG. 24-2**

STEP 4 - BOLT ON LIFTGATE

NOTE: Refer to **TABLES 25-1** (3" Crossmembers), **25-2** (4" Crossmembers) & **25-3** (Refrigerated Trailers) for correct mounting slot information.

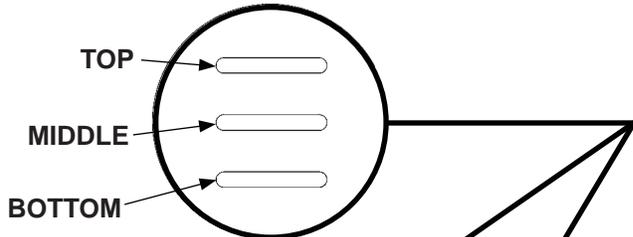
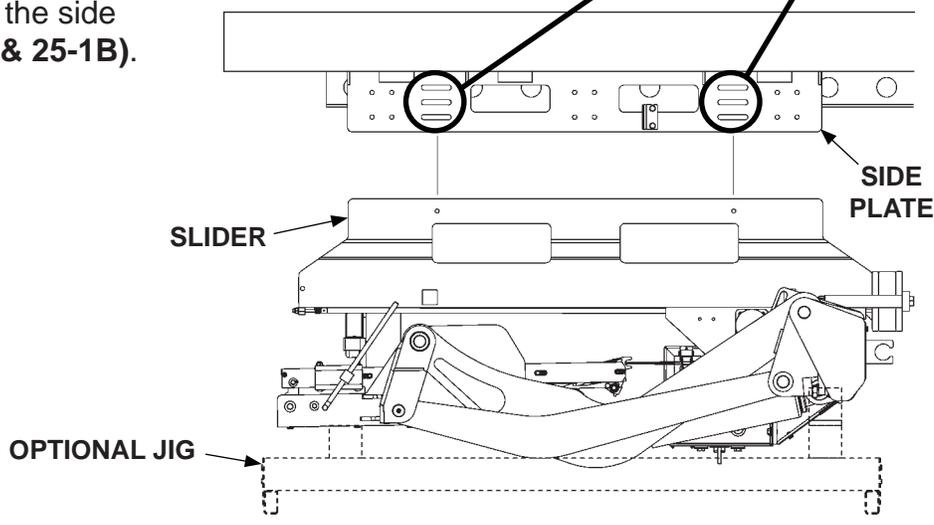


FIG. 25-1B

1. Raise Liftgate to line up the holes in the slider with the proper mounting slots on the side plates (**FIGS. 25-1A & 25-1B**).



**LINING UP SLIDER WITH SIDE PLATES
(RH SIDE SHOWN)
FIG. 25-1A**

| BED HEIGHT | SLOT |
|------------|--------|
| 46" | MIDDLE |
| 47" | MIDDLE |
| 48" | MIDDLE |
| 49" | MIDDLE |
| 50" | MIDDLE |
| 51" | MIDDLE |
| 52" | BOTTOM |
| 53" | BOTTOM |

**3" CROSSMEMBERS
TABLE 25-1**

| BED HEIGHT | SLOT |
|------------|--------|
| 46" | TOP |
| 47" | TOP |
| 48" | TOP |
| 49" | MIDDLE |
| 50" | MIDDLE |
| 51" | MIDDLE |
| 52" | BOTTOM |
| 53" | BOTTOM |

**4" CROSSMEMBERS
TABLE 25-2**

| BED HEIGHT | SLOT |
|------------|------|
| 46" | TOP |
| 47" | |
| 48" | |
| 49" | |
| 50" | |
| 51" | |
| 52" | |
| 53" | |

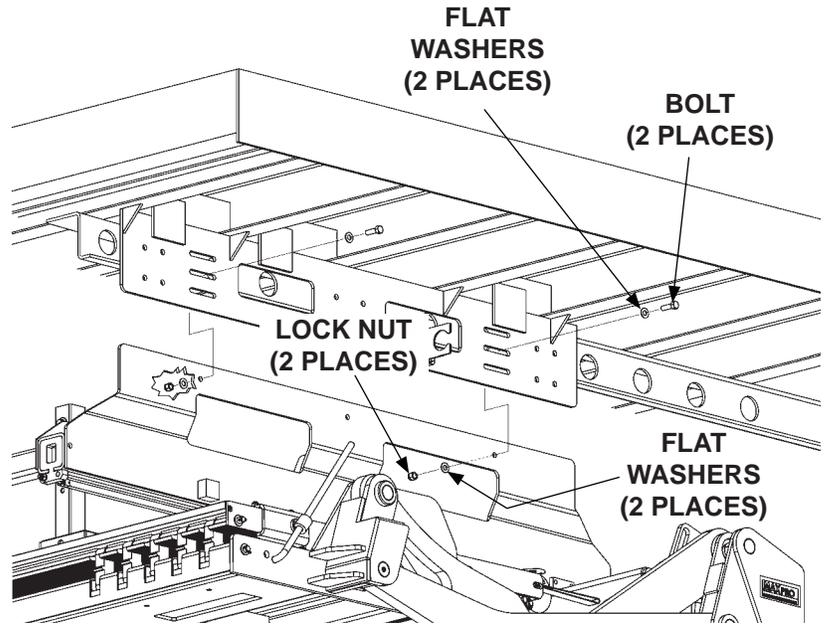
**REFRIGERATED
TRAILER
TABLE 25-3**

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

STEP 4 - BOLT ON LIFTGATE - Continued

NOTE: Use the bolts, nuts, and flat washers removed from the side plates in STEP 1, for bolting on the Liftgate.

2. Bolt Liftgate to RH side plate as shown in **FIG. 26-1**. Repeat step for LH side plate. Before bolts are tightened, position Liftgate all the way toward rear of vehicle body (**FIG. 26-2**).



**BOLTING LIFTGATE TO SIDE PLATES
(RH SIDE SHOWN)
FIG. 26-1**

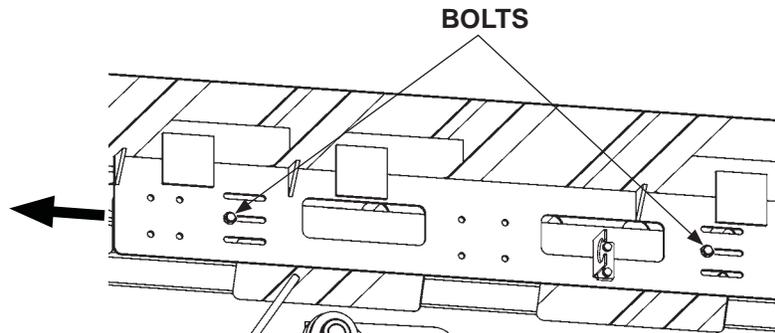
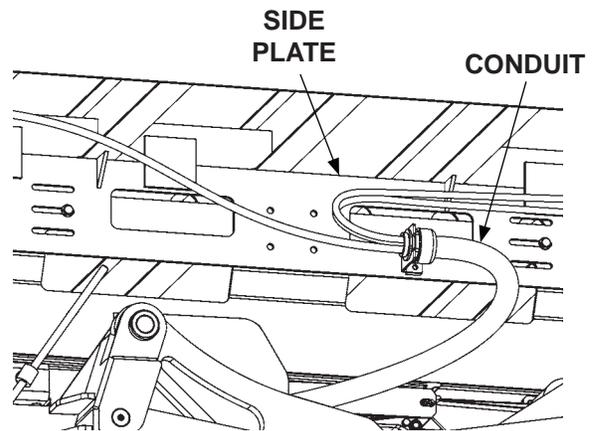


FIG. 26-2

STEP 5 - WELD ON EXTERNAL CONTROL & BRACKET

1. Reconnect conduit to right side plate as shown in FIG. 27-1.



RECONNECTING CONDUIT
TO RH SIDE PLATE
FIG. 27-1

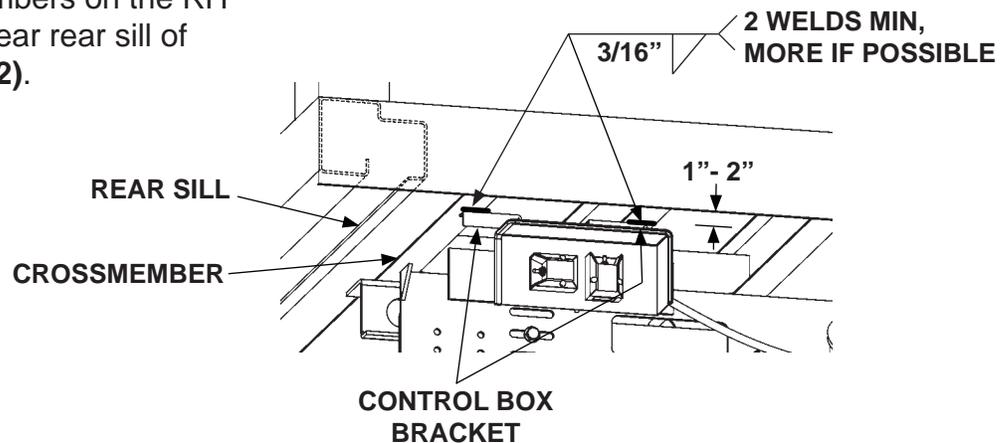
CAUTION

Prevent damage to control box. Make sure installed control box does not protrude from the vehicle body.

CAUTION

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

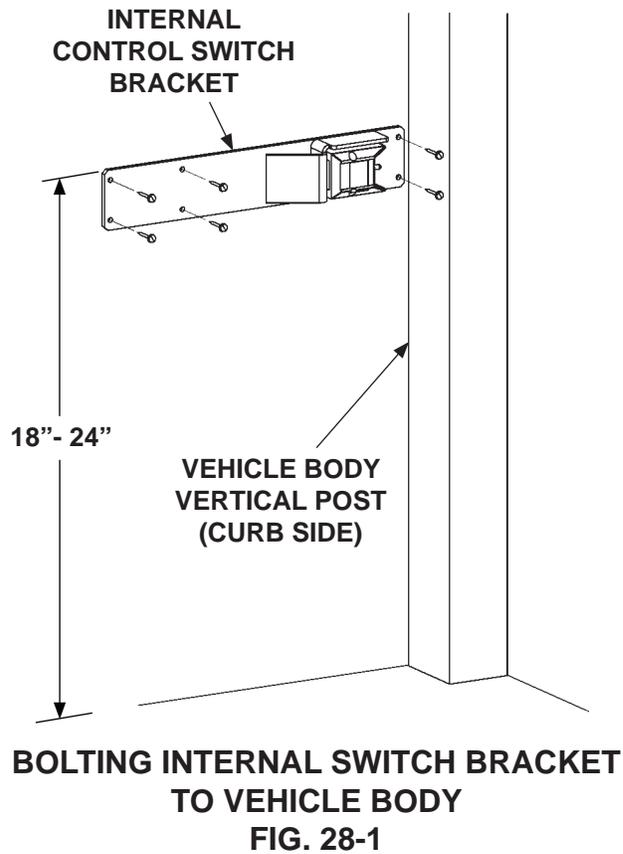
2. Weld the control box bracket to vehicle crossmembers on the RH side (curbside) near rear sill of vehicle (FIG. 27-2).



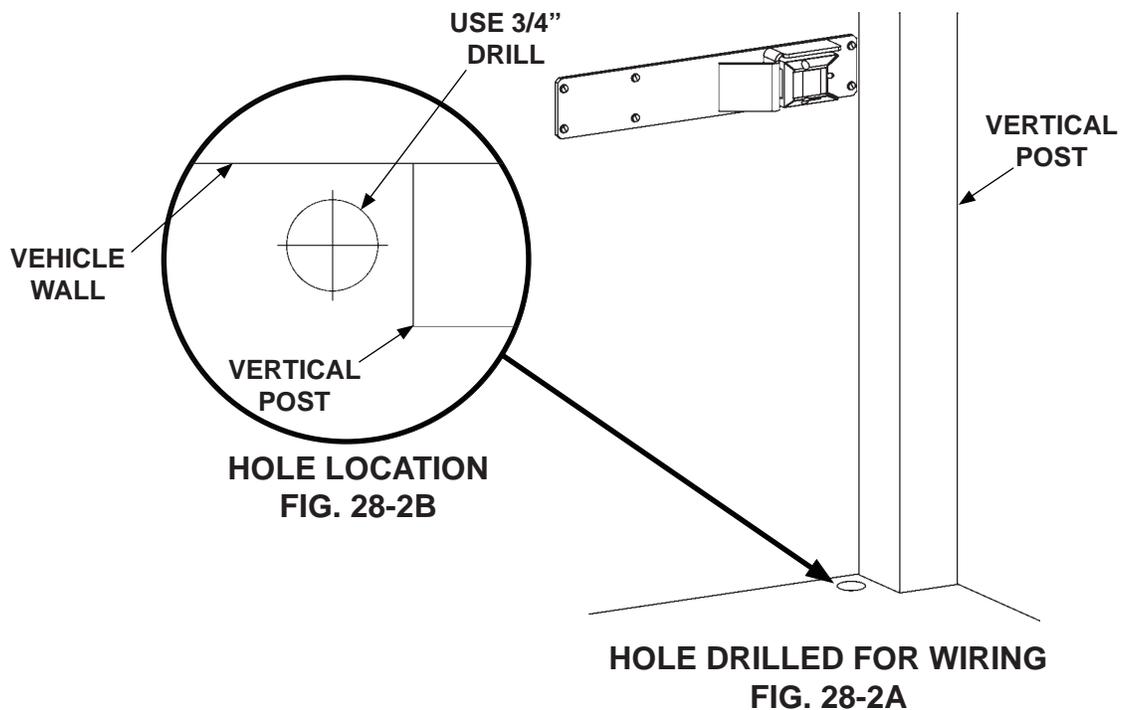
WELDING BRACKET TO CROSSMEMBERS
(MOLDED SWITCHES EXTERNAL CONTROLLER)
FIG. 27-2

STEP 6 - BOLT ON INTERNAL CONTROL SWITCH

1. Use internal control switch bracket to mark and drill 4 holes for mounting next to vertical post (curb side). Bolt internal control box to vehicle body with self-tapping screws (**FIG. 28-1**).

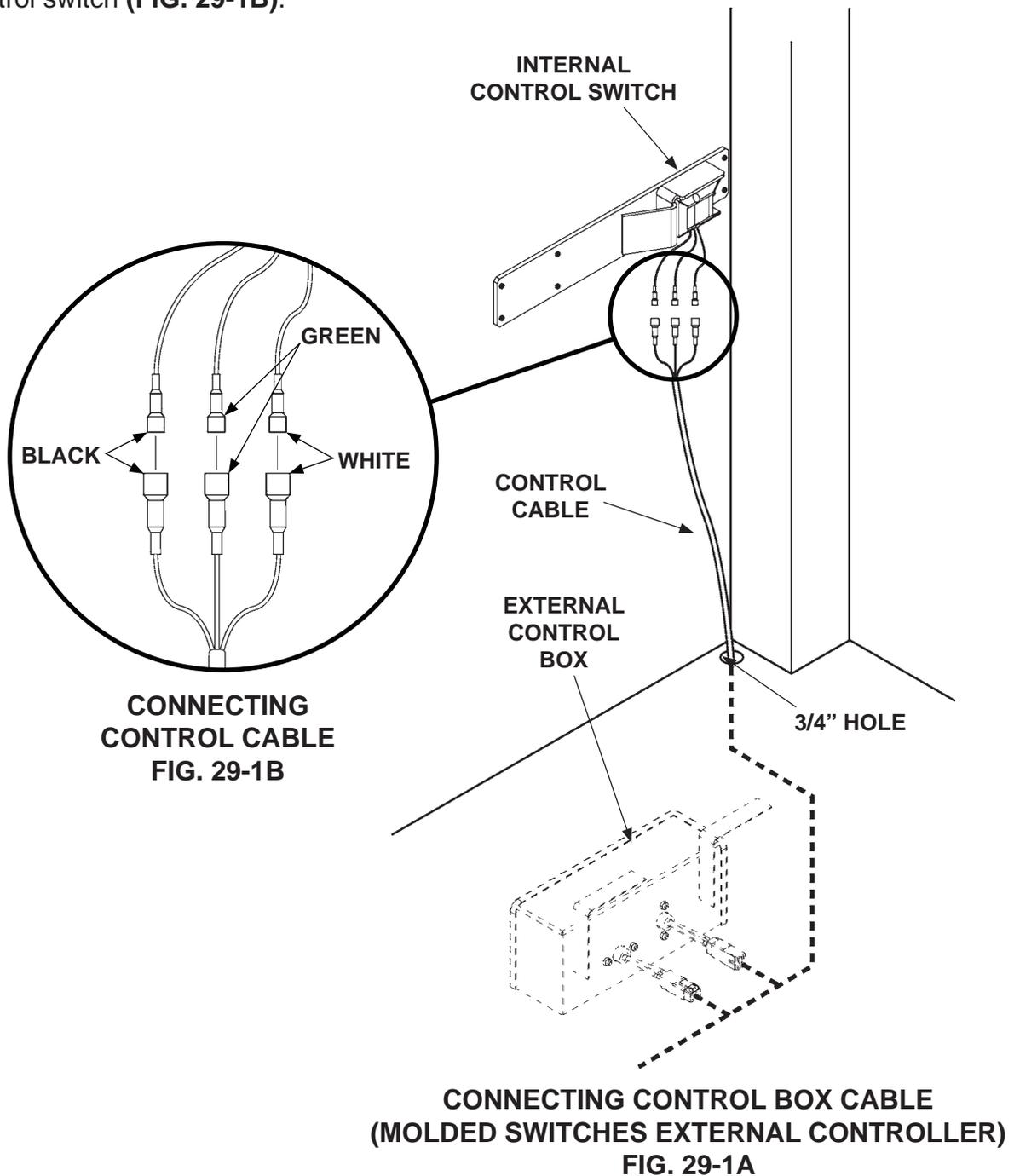


2. Drill 3/4" hole through vehicle floor as shown in **FIGS. 28-2A and 28-2B**.



STEP 6 - BOLT ON INTERNAL CONTROL SWITCH - Continued

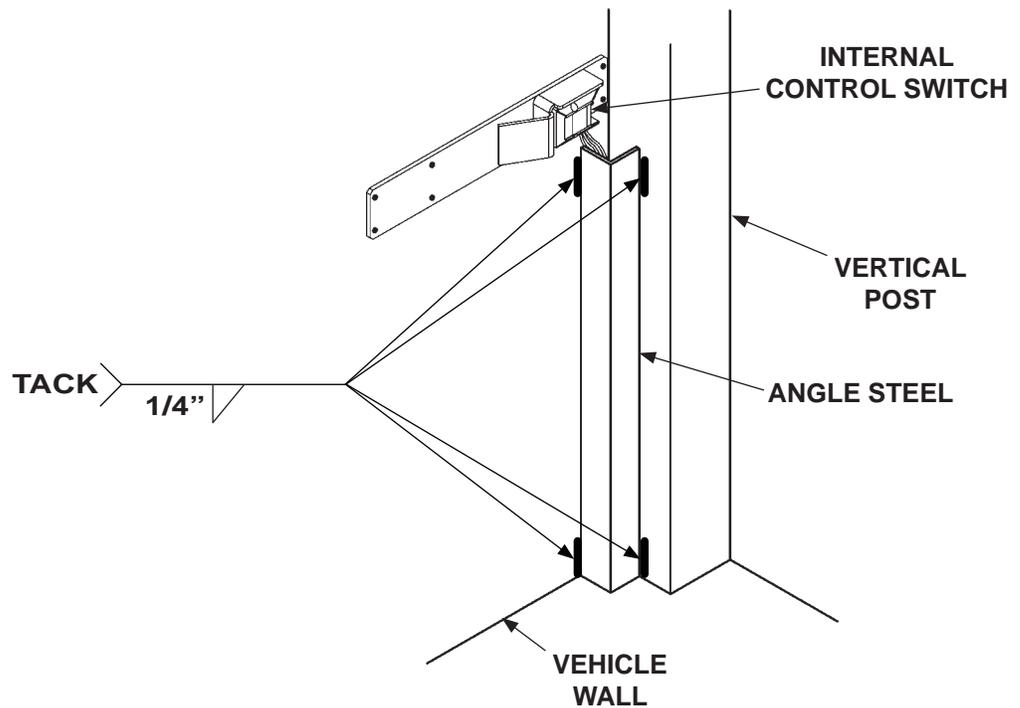
3. Run control cable from external control box, under vehicle body (see dashed line, FIG. 29-1A, FIG. 31-1A), and up through vehicle floor. Pull control cable through 3/4" hole (FIG. 29-1A).
4. Connect the control cable to the internal control switch (FIG. 29-1B).



STEP 6 - BOLT ON INTERNAL CONTROL SWITCH - Continued

NOTE: MAXON recommends using angle steel to protect control switch cable as shown in the illustration below. MAXON does not supply the angle steel. If necessary, installer may use an alternate method, such as loom clamps and screws, to secure cable to vehicle wall or vertical post. If screws are used, ensure screws do not break through to outside of vehicle wall.

5. Tack weld angle steel to vehicle wall and vehicle post (**FIG. 30-1**).



**RUNNING CONTROL BOX CABLE
FIG. 30-1**

STEP 7 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED)

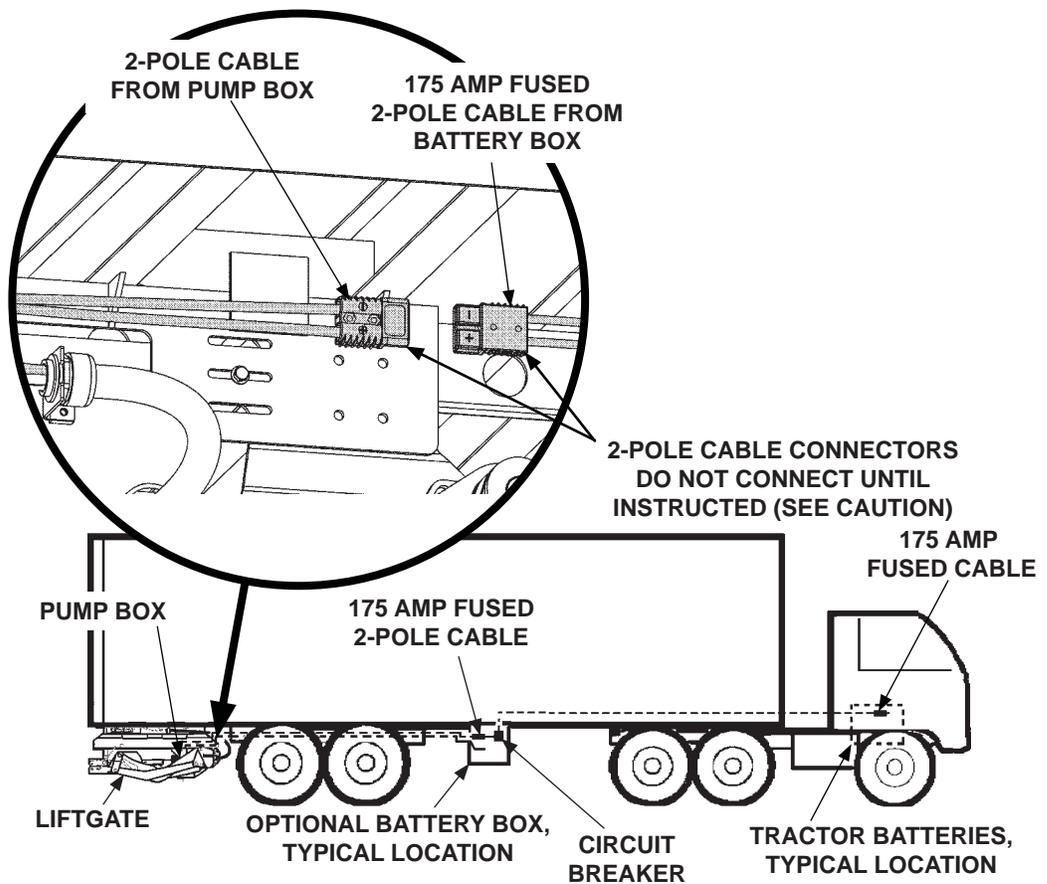
⚠ CAUTION

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.

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 **FIGS. 31-1 and 34-1**. See the following pages for battery and cable connections.

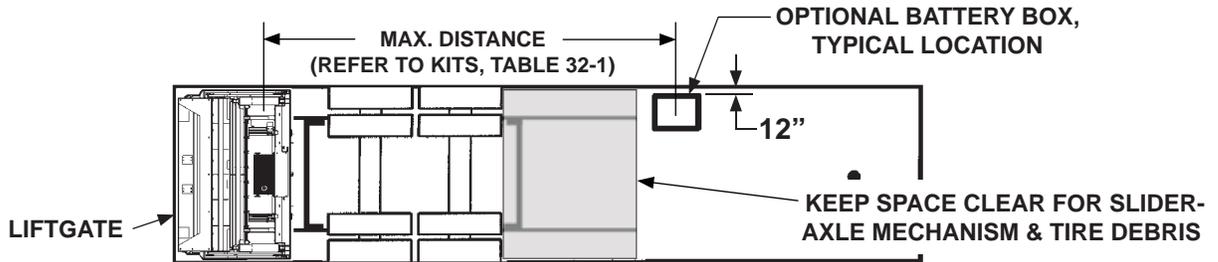


**RECOMMENDED LIFTGATE & OPTIONAL BATTERY BOX
INSTALLATION ON TRAILER**

FIG. 31-1

STEP 7 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

2. To correctly position battery box frame on trailer, refer to **FIG. 32-1** and **TABLE 32-1**.



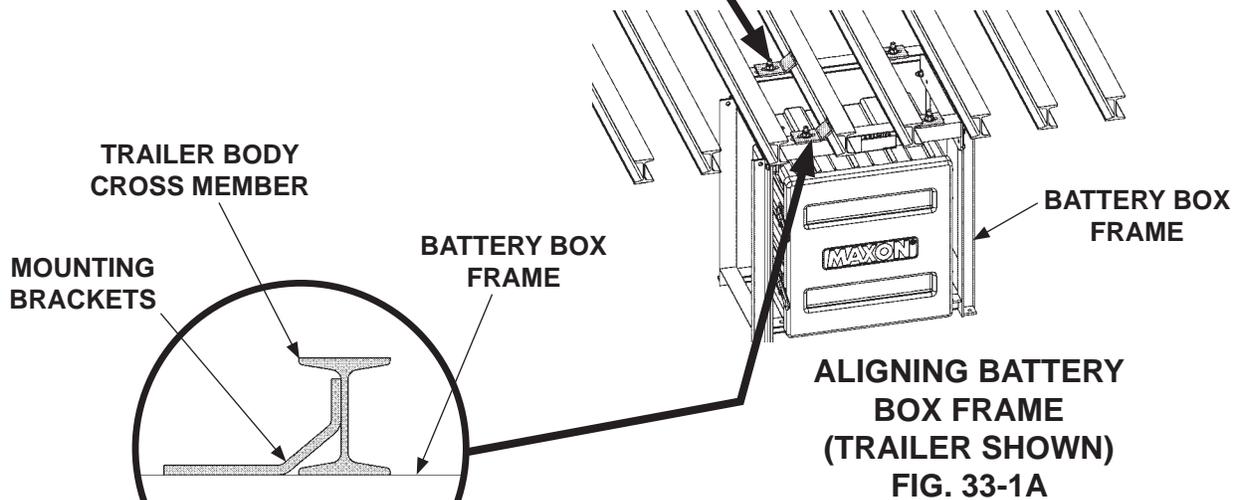
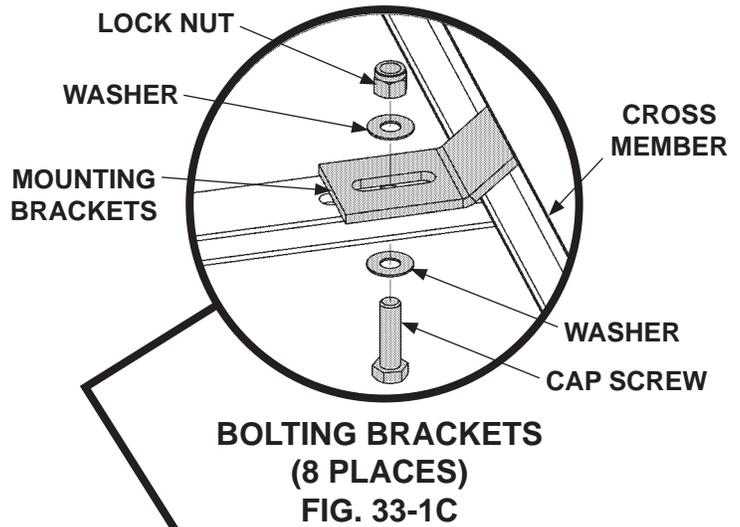
BATTERY BOX POSITIONING ON SLIDER-AXLE TRAILER
FIG. 32-1

| CABLE KITS | P/N |
|--------------------------------|-----------|
| GPSLR 3' BATTERY INSTALLATION | 268802-01 |
| GPSLR 10' BATTERY INSTALLATION | 268802-02 |
| GPSLR 20' BATTERY INSTALLATION | 268802-03 |
| GPSLR 60' BATTERY INSTALLATION | 268802-04 |
| GPSLR 30' BATTERY INSTALLATION | 268802-05 |

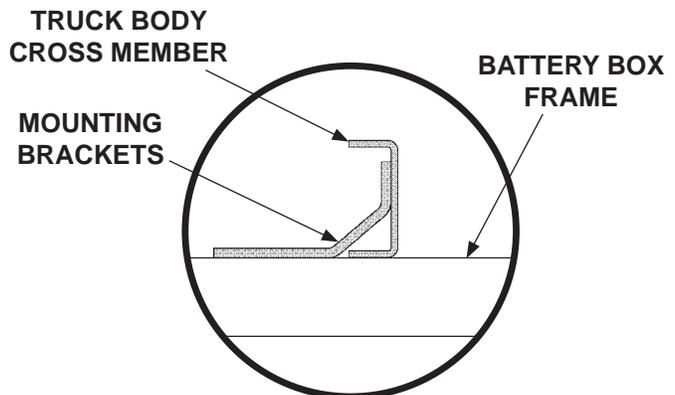
BATTERY BOX INSTALLATION KITS
TABLE 32-1

STEP 7 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

3. Select holes on top of battery box frame to align mounting brackets flush to cross members. Refer to **FIGS. 33-1A & 33-1B** for trailers and **FIG. 33-2** for trucks. Bolt mounting brackets to battery box frame as shown in **FIG. 33-1C**. Torque each bolt and lock nut to **85-128 lb-ft.**



**FLUSH BRACKETS
FOR TRAILERS
(8 PLACES)
FIG. 33-1B**

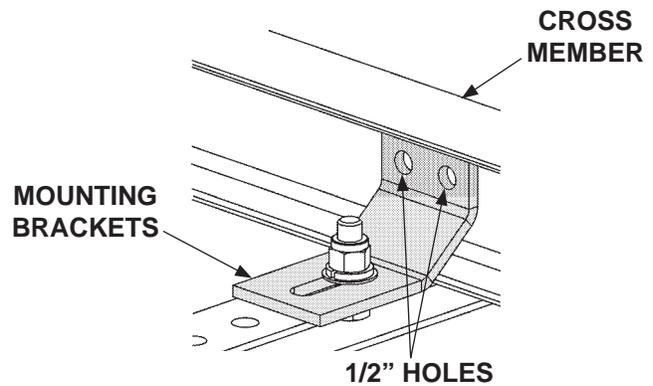


**FLUSH BRACKETS FOR TRUCKS
(8 PLACES)
FIG. 33-2**

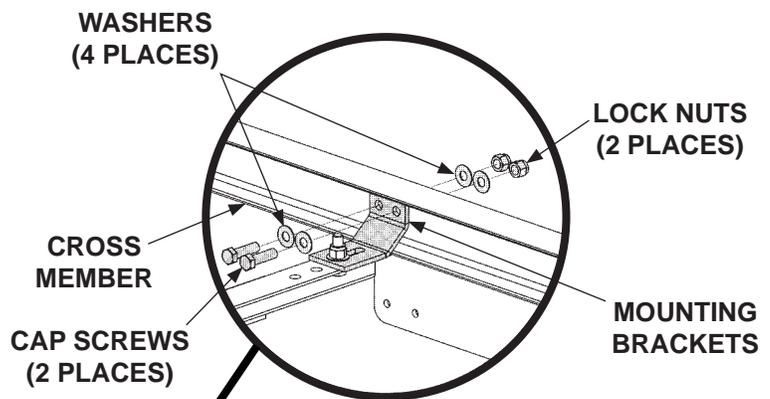
STEP 7 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

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

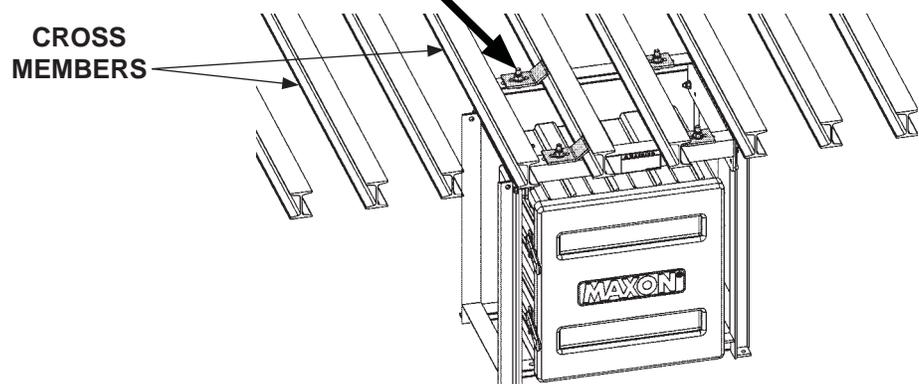
- Using mounting brackets as a template, mark and drill holes through cross members (FIG. 34-1). Bolt mounting brackets to cross members as shown in FIGS. 34-2A and 34-2B. Torque bolts and lock nuts to 85-128 lb-ft.



MARK AND DRILL BRACKET HOLES
FIG. 34-1



BOLTING BRACKETS
(8 PLACES)
FIG. 34-2B



BOLTING BATTERY BOX FRAME
FIG. 34-2A

STEP 7 - 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.

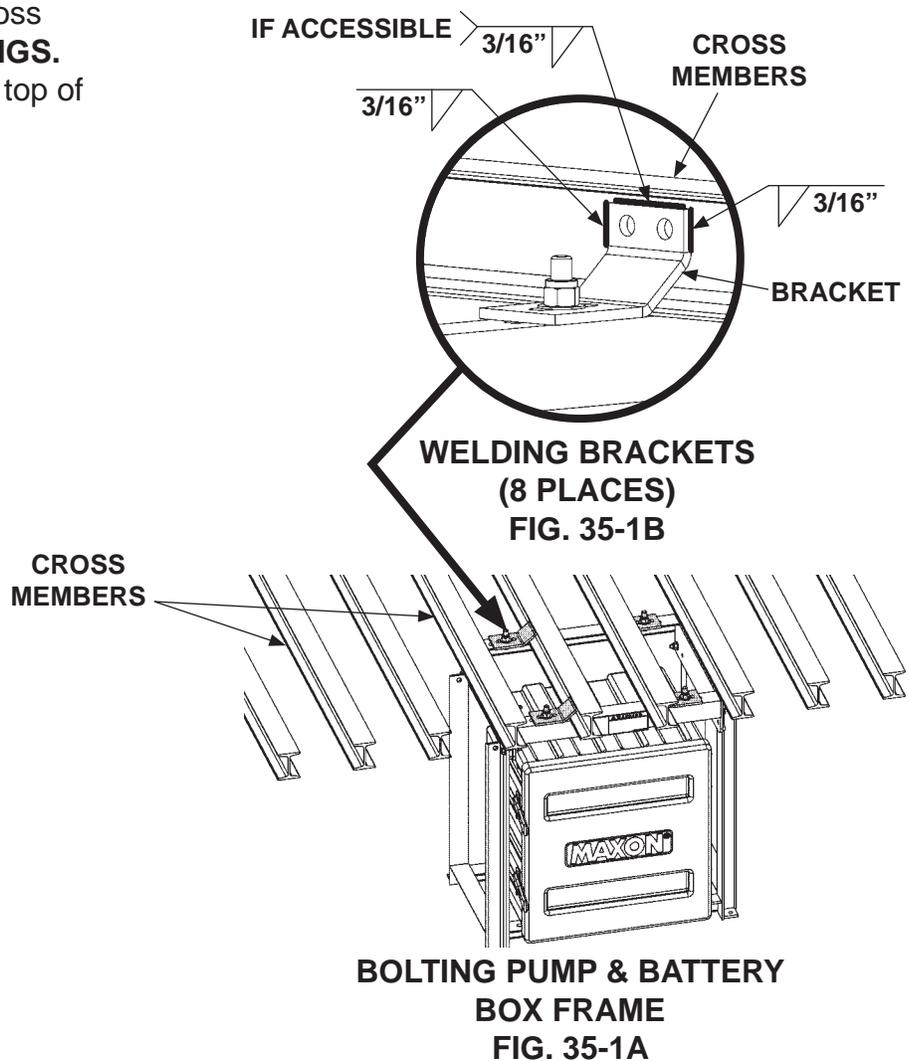
CAUTION

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.

5. Weld each bracket to cross members as shown in **FIGS. 35-1A and 35-1B**. Weld top of bracket if accessible.



STEP 7 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

⚠ WARNING

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

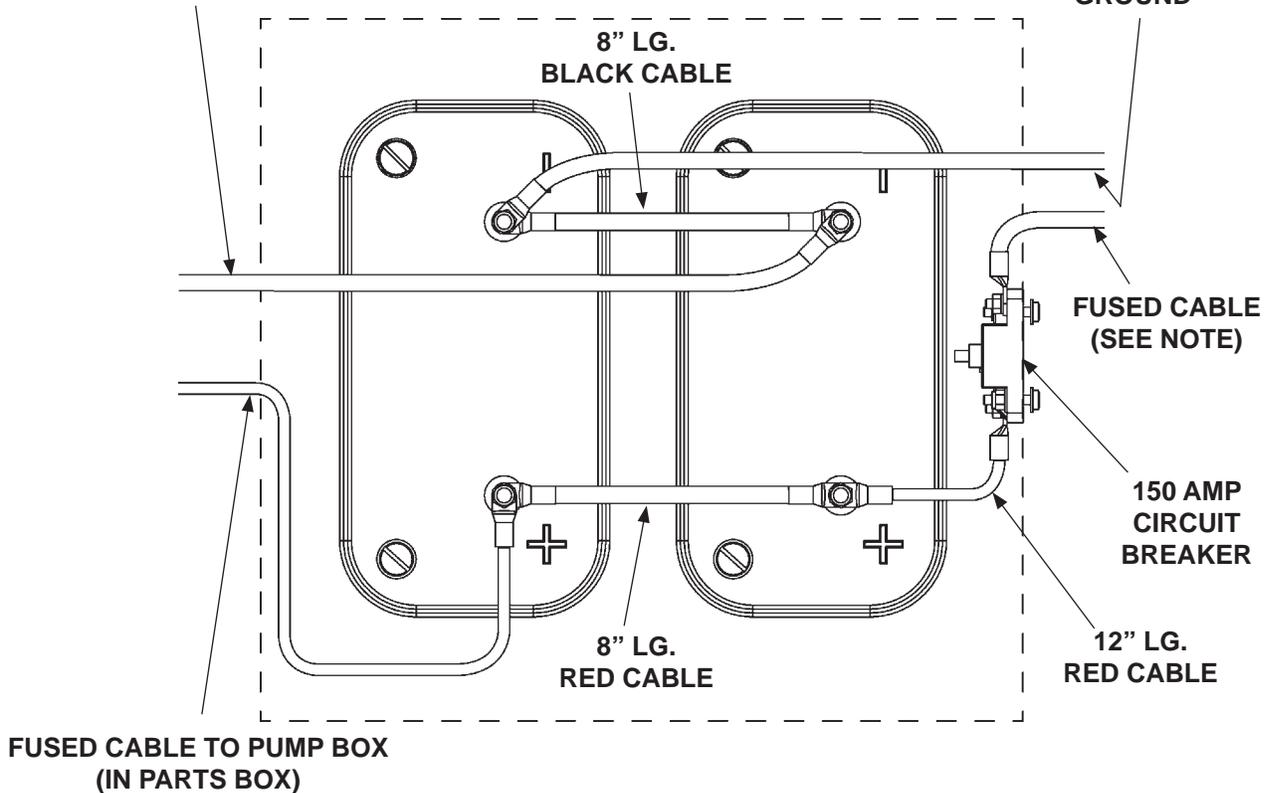
NOTE: Always connect fused end of power cable to battery positive (+) terminal.

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

6. Connect battery cables, fused cables, and ground cables for 12 volt power as shown in **FIG. 36-1**.

GROUND CABLE TO PUMP BOX OR COMMON CHASSIS GROUND, 74" LG. (BATTERY BOX KIT ITEM)

(-) BATTERY CABLE TO COMMON GROUND

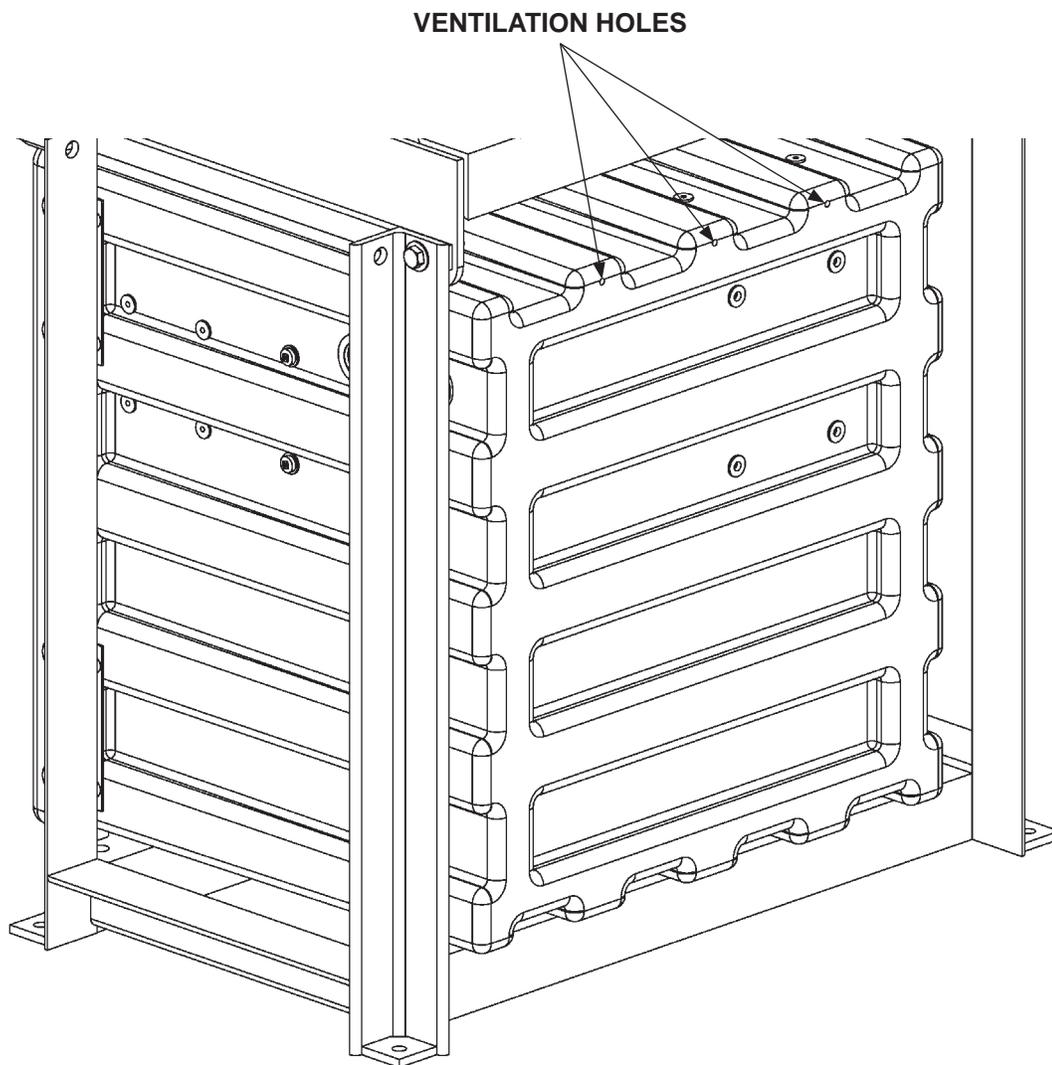


12 VOLT BATTERY CONNECTIONS FOR 12 VOLT POWER
FIG. 36-1

STEP 7 - 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. 37-1**

STEP 7 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

BATTERY BOX ASSEMBLY

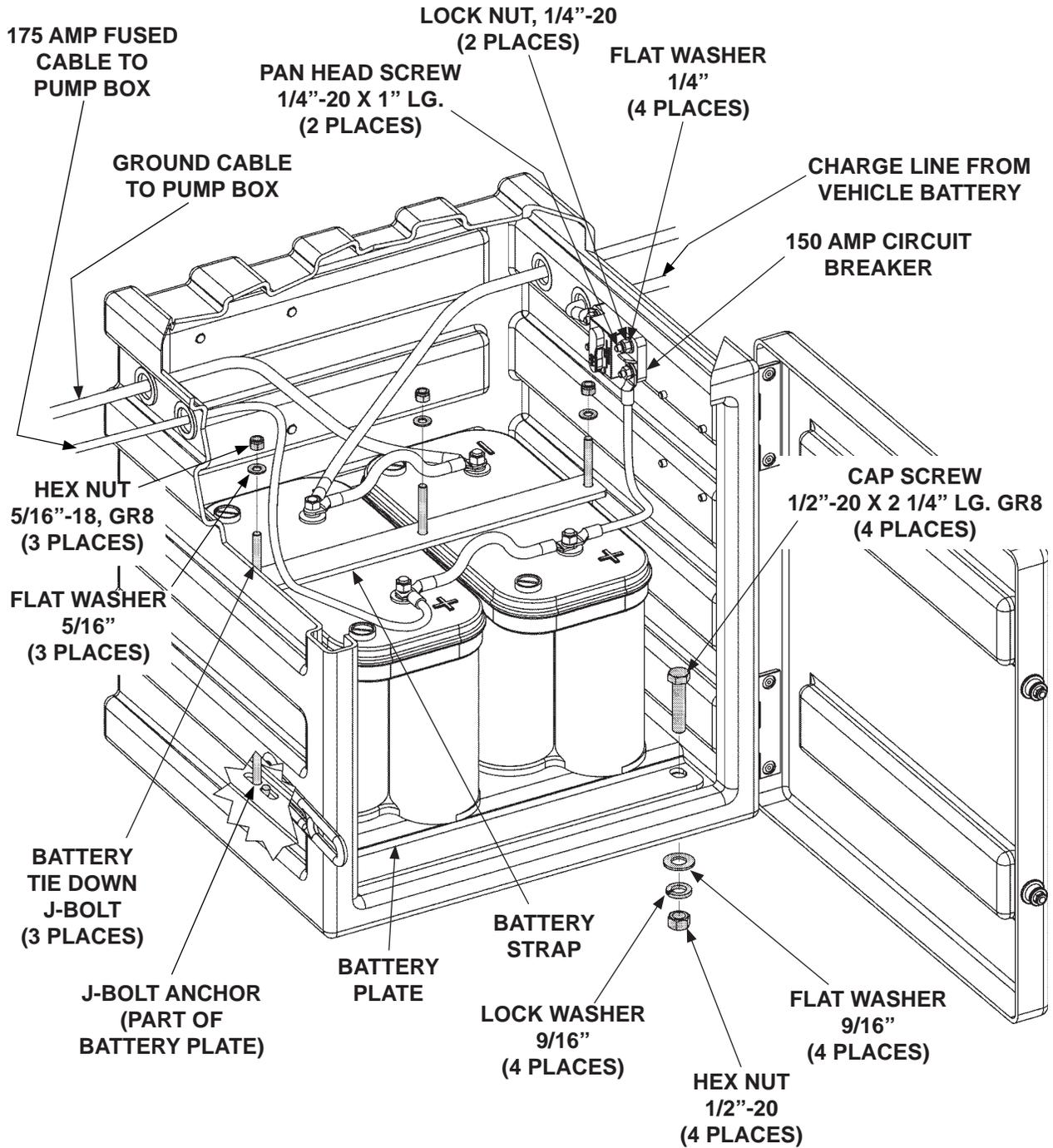


FIG. 38-1

STEP 8 - RUN POWER CABLE

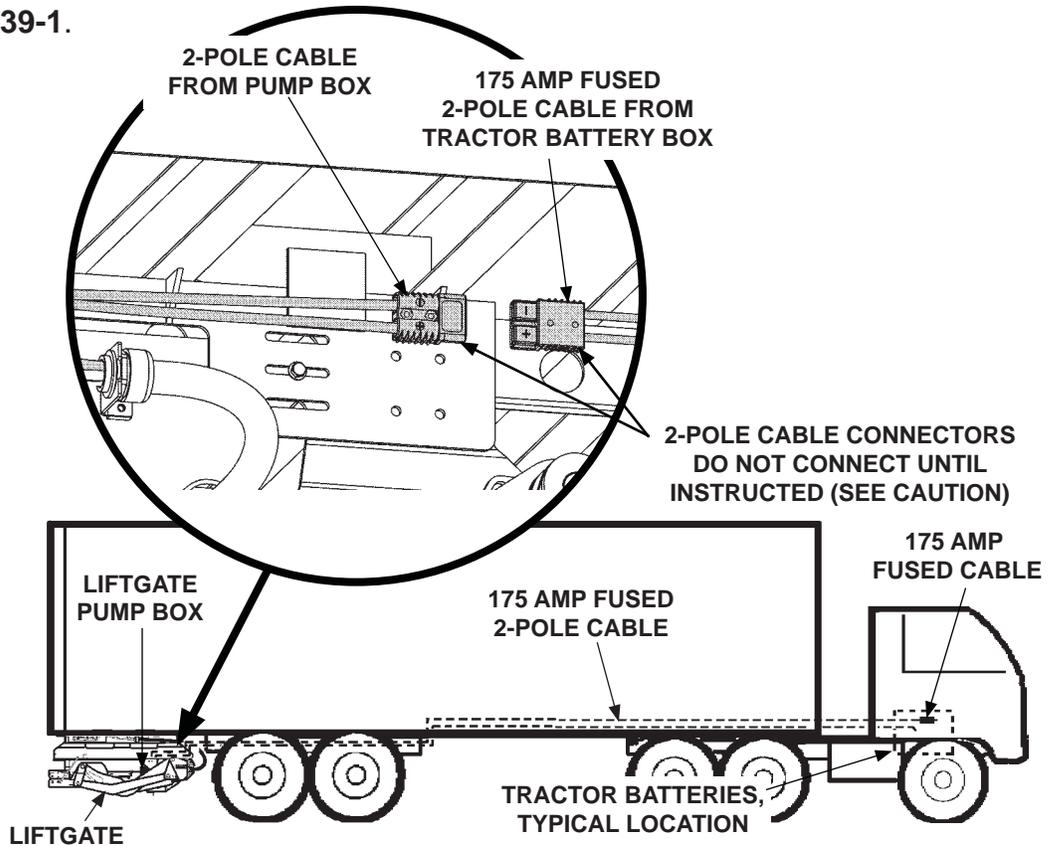
⚠ CAUTION

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.

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 tractor batteries is typically installed on trailers as shown in **FIG. 39-1**.



RECOMMENDED LIFTGATE & OPTIONAL BATTERY BOX INSTALLATION ON TRAILER

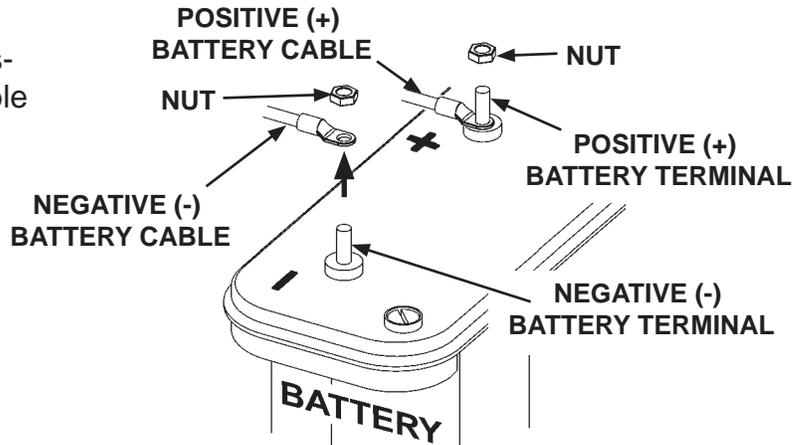
FIG. 39-1

2. Position fuse-end of 2-pole power cable with fuse nearest the tractor batteries, as shown in **FIG. 39-1**. Keep enough cable near batteries to reach the positive (+) and (-) terminals without straining cables (after connection). Run 2-pole cable from battery, to the 2-pole cable from pump box. Secure power cable to vehicle chassis.

STEP 8 - RUN POWER CABLE - Continued

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

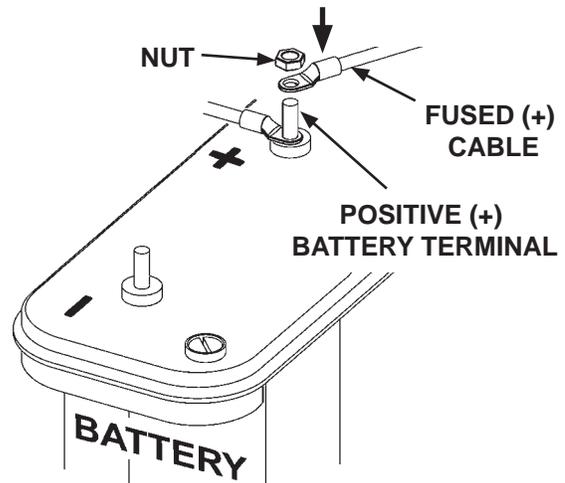
3. Remove nut from negative (-) battery terminal (**FIG. 40-1**). Disconnect negative (-) battery cable (**FIG. 40-1**).



**DISCONNECTING (-) BATTERY CABLE
FIG. 40-1**

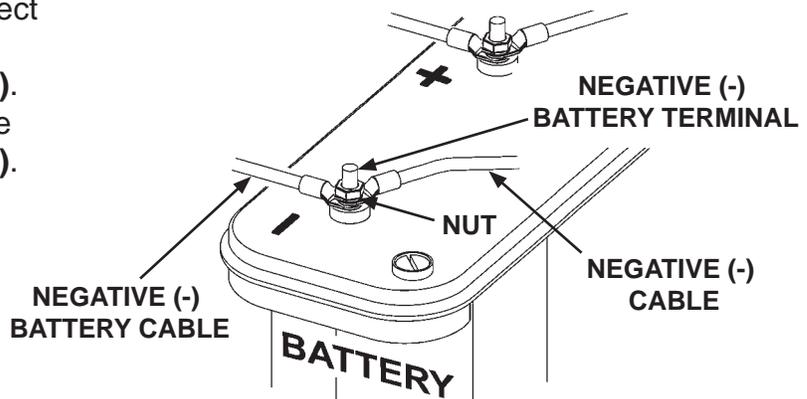
4. Remove nut from positive (+) battery terminal (**FIG. 40-1**).

5. 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**

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



**RECONNECTED BATTERY CABLES
FIG. 40-3**

STEP 9 - CONNECTING POWER

Connect power cable as shown in **FIG. 41-1**.

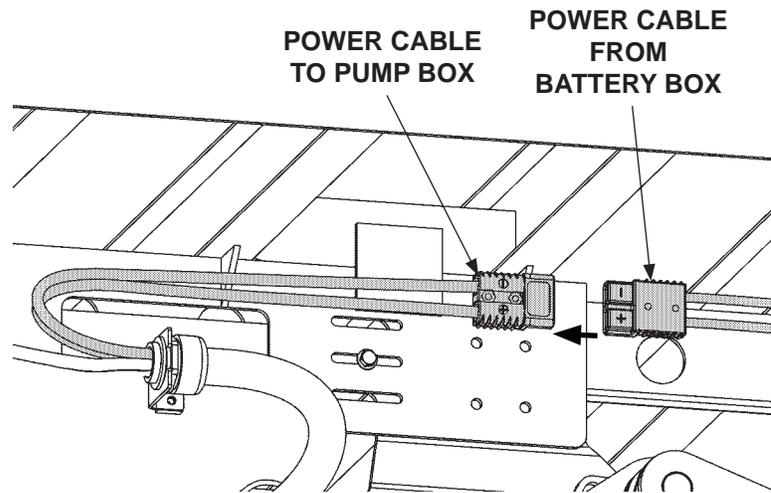


FIG. 41-1

STEP 10 - CHECKING HYDRAULIC FLUID

CAUTION

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

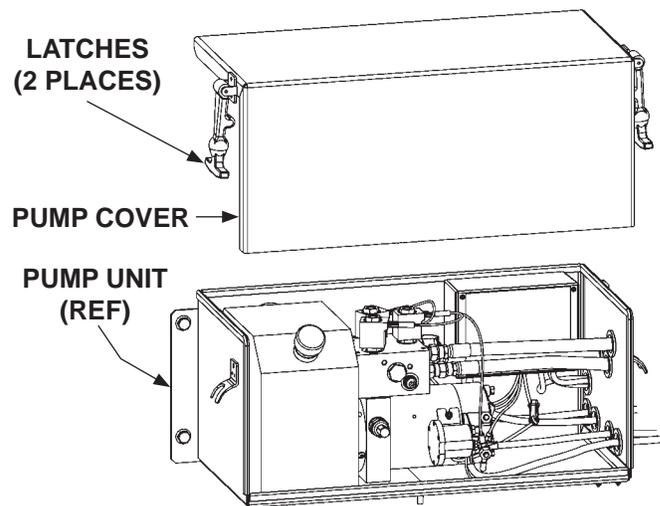
NOTE: Use correct grade of hydraulic fluid for your location.

+50 to +120 Degrees F - Grade ISO 32

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

See **TABLES 43-1 & 43-2** for recommended brands.

1. Unstow and lower Liftgate to ground.
2. Unlatch and open pump cover (**FIG. 42-1**).
3. Check the hydraulic fluid level in reservoir as follows. With Liftgate on ground, level should be as shown in **FIG. 42-2**.

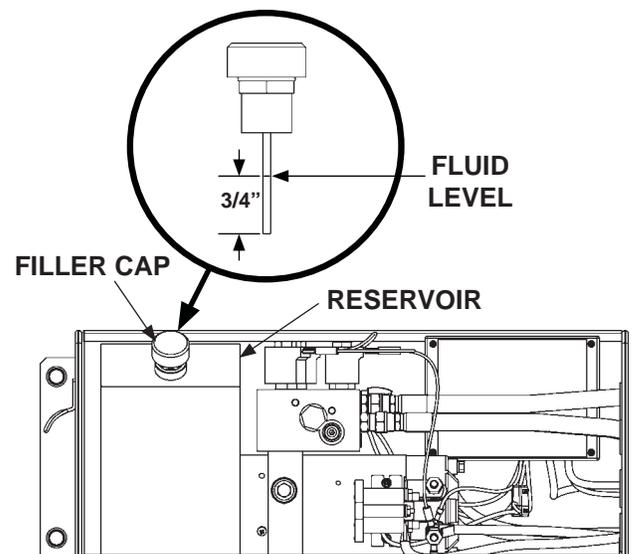


UNLATCH/LATCH PUMP COVER
FIG. 42-1

CAUTION

Do not fill reservoir to the **FULL** mark on the dipstick. Hydraulic fluid can overflow from the reservoir.

4. If needed, add hydraulic fluid to the reservoir as follows. Remove filler cap (**FIG. 42-2**). Fill the reservoir with hydraulic fluid to 3/4" above bottom of dipstick (**FIG. 42-2**). Reinstall filler cap (**FIG. 42-2**).



POWER UNIT FLUID LEVEL
FIG. 42-2

CAUTION

Pump cover must be correctly secured to prevent it from becoming a hazard. Ensure pump cover is latched to pump box.

5. Close and latch the pump cover as shown in **FIG. 42-1**.

STEP 10 - 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 43-1

| 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 |
| PHILLIPS 66 | ARCTIC LOW POUR |
| ROSEMEAD | THS FLUID 17111 |

TABLE 43-2

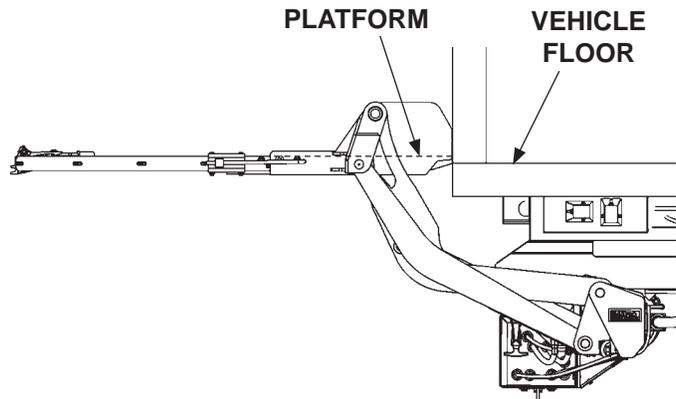
STEP 11 - LEVELING PLATFORM

CAUTION

Operate Liftgate with caution until installation is complete.

NOTE: Refer to **Operating Instructions** decal and applicable **WARNING & CAUTION** decals.

1. Raise platform above vehicle floor height (**FIG. 44-1**).



PLATFORM ABOVE VEHICLE FLOOR
FIG. 44-1

2. Loosen bolts on both side plates (**FIG. 44-2**). Lower platform flush with vehicle floor (**FIG. 44-3**). Next, nudge the Liftgate forward until platform heel contacts rear sill on vehicle (**FIG. 44-3**). Then tighten bolts. Torque each bolt to **120 lb-ft**.

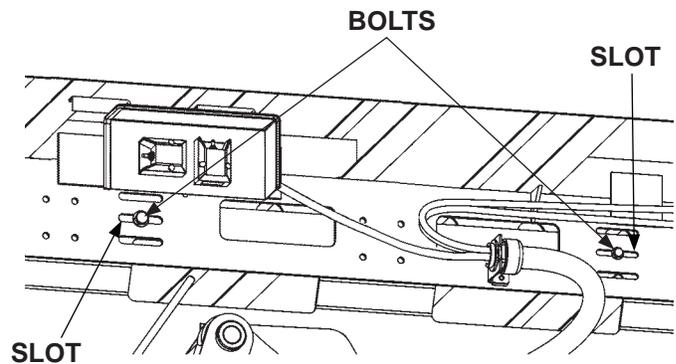
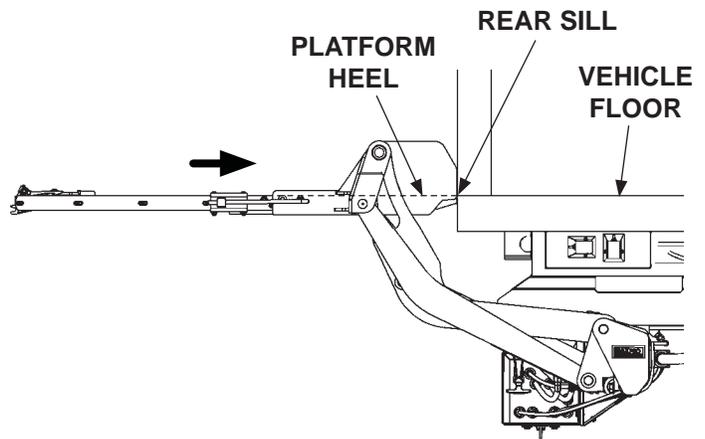


FIG. 44-2



PLATFORM FLUSH WITH VEHICLE FLOOR
FIG. 44-3

STEP 12 - FINAL BOLTING

NOTE: Six holes must be drilled through each side of the slider frame to bolt RH and LH side plates to slider frame on the Liftgate. (See FIGS. 45-1A, 45-1B, 45-1C & 45-1D.)

NOTE: If middle slot is used for bolting Liftgate, and if trailer chassis interferes with bolts placed in top holes (FIG. 45-1C), the bottom holes can be used for bolting.

1. Use side plate as a template to drill 6 holes (1/2" dia.) in slider frame (FIG. 45-1A). Repeat for LH side.

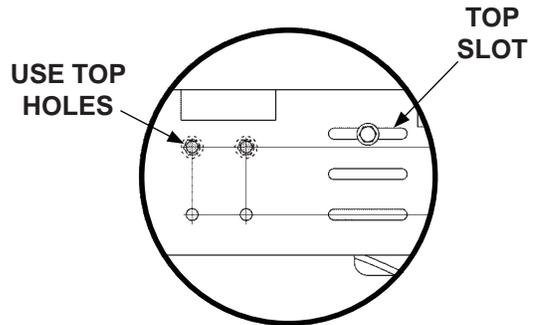


FIG. 45-1B

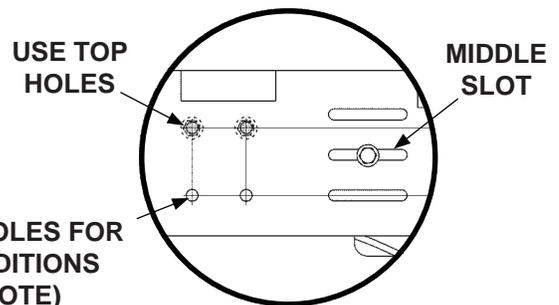


FIG. 45-1C

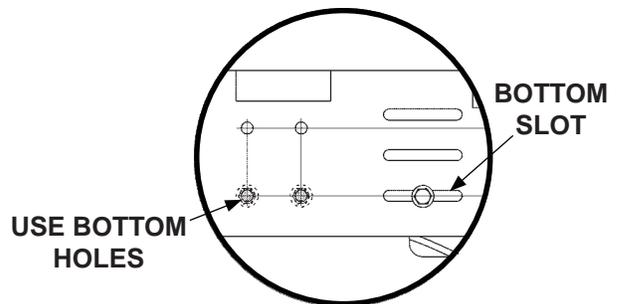


FIG. 45-1D

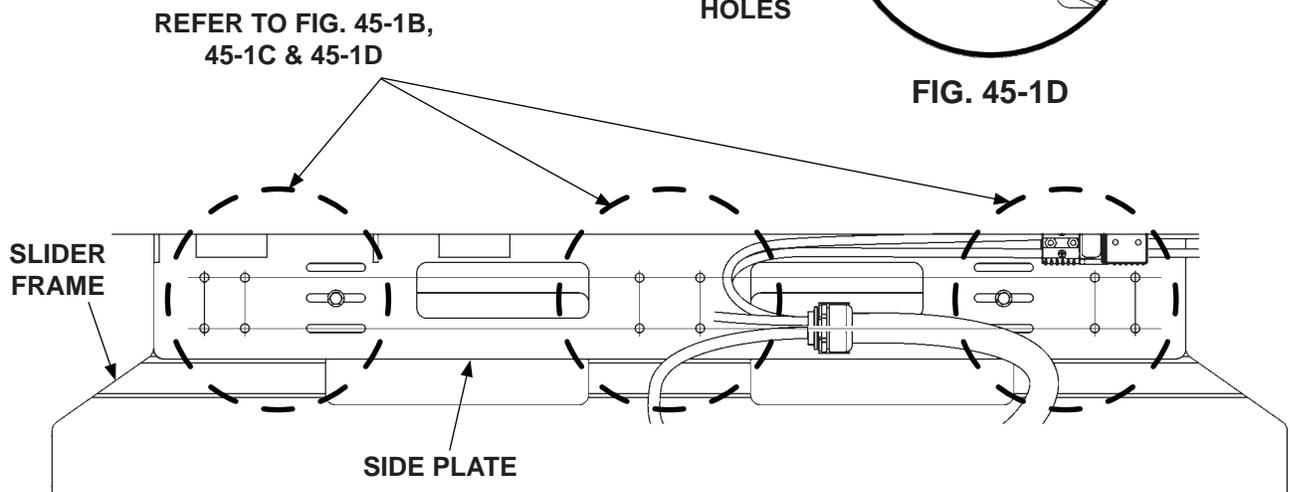


FIG. 45-1A

STEP 12 - FINAL BOLTING - Continued

- 2. Bolt RH side plate to slider frame as shown in **FIG. 46-1**. Repeat for LH side. Torque each bolt to **120 lb-ft**.

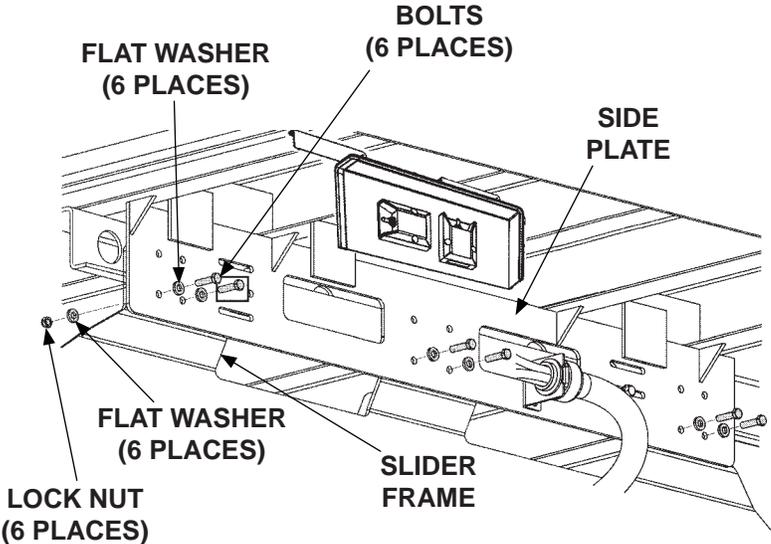


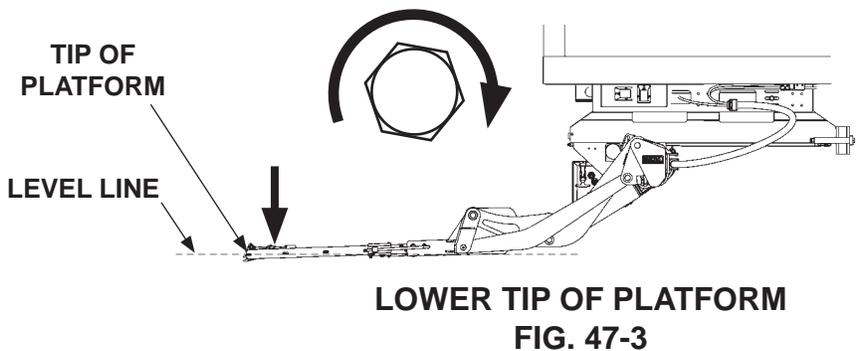
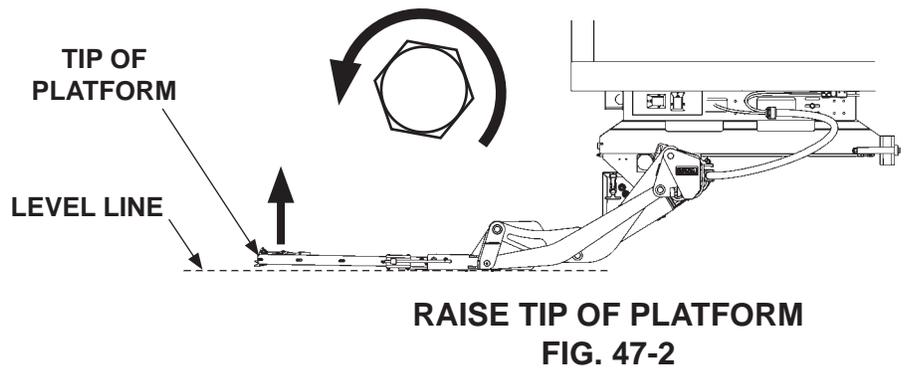
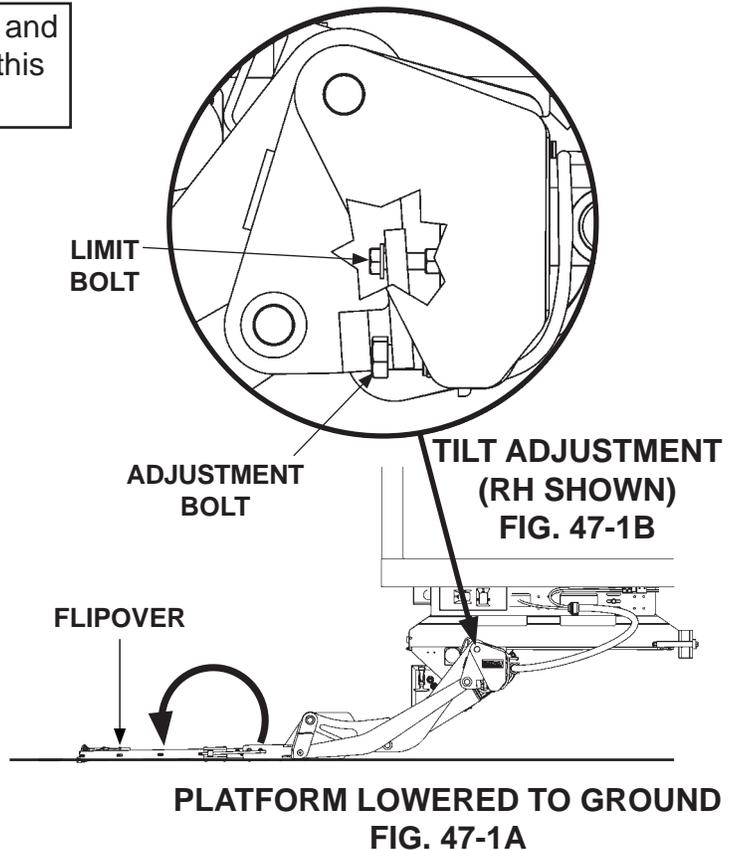
FIG. 46-1

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

STEP 13 - PLATFORM ADJUSTMENT

NOTE: Park vehicle on level ground and unload vehicle before doing this procedure.

1. Lower platform to ground and unfold flipover (FIG. 47-1A).
2. Loosen adjustment and limit bolts on both sides of platform (FIG. 47-1B).
3. Turn adjustment bolts counterclockwise to tilt the tip of platform up (FIG. 47-2), or turn clockwise to tilt down (FIG. 47-3).
4. Once platform is adjusted, tighten limit bolts securely on both sides of platform (FIG. 47-1B).



STEP 14 - ATTACH SLIDING AXLE STOPS (IF REQUIRED)

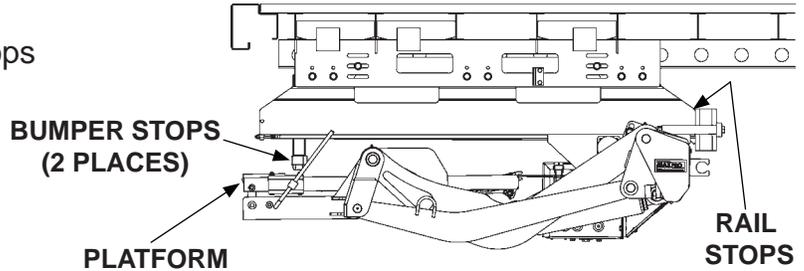
CAUTION

The sliding axle assembly on a trailer can collide with a Liftgate mounted on the slide rails. To prevent damage to Liftgate and trailer, install stops on the slide rails to keep the sliding axles from hitting Liftgate. Refer to Liftgate clearance dimensions in this section of the manual.

If the Liftgate is mounted on a slide-axle trailer, attach stops on the slide rails to prevent the slide axles from hitting the Liftgate. Refer to the **VEHICLE REQUIREMENTS** section in this manual.

STEP 15 - ATTACH SAFETY CHAIN

1. Stow Liftgate all the way in until slide mechanism hits the rail stops (FIG. 49-1).



LIFTGATE IN STOWED POSITION
FIG. 49-1

2. Raise the platform until it presses against the bumper stops (FIG. 49-1).

CAUTION

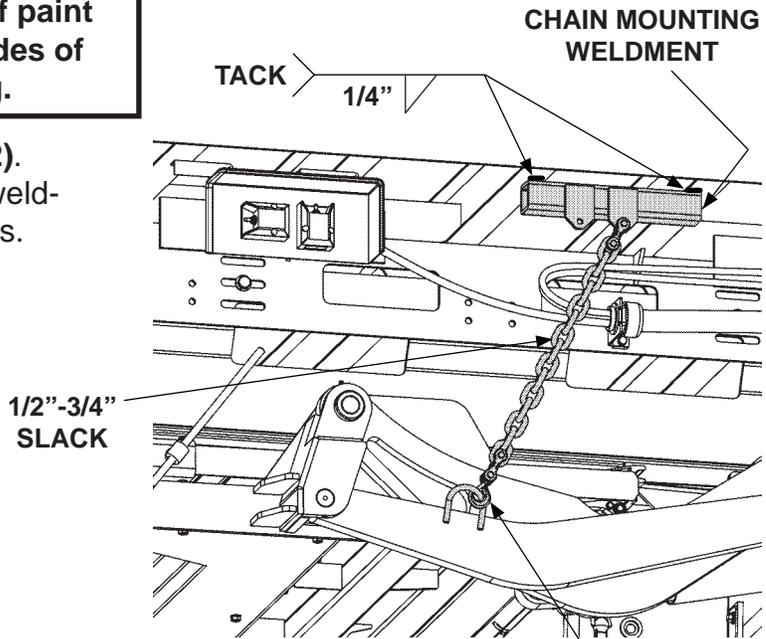
Prevent damage to hydraulic hoses. If welding next to hydraulic hoses, use a protective cover such as a welding blanket to cover the hoses.

CAUTION

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

3. Hook chain to tilt arm (FIG. 49-2). Then, position chain mounting weldment to bottom of crossmembers. Keep 1/2" to 3/4" slack in chain.

4. Tack weld the chain mounting weldment as shown in FIG. 49-2.

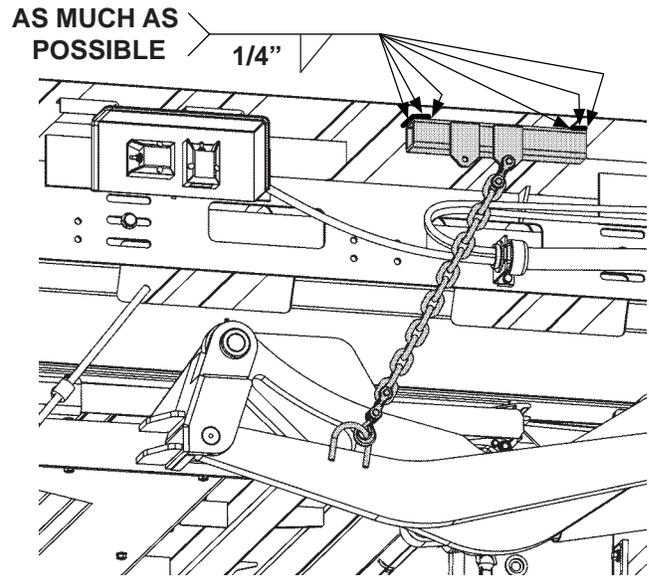


SNAP HOOK & CHAIN
POSITIONING & TACK WELDING
CHAIN MOUNTING WELDMENT
FIG. 49-2

5. Hook and unhook chain from tilt arm. Hook should be easy to disengage from tilt arm (FIG. 49-2).

STEP 15 - ATTACH SAFETY CHAIN - Continued

- When chain mounting weldment is in correct position, finish welding to vehicle crossmembers as shown in **FIG. 50-1**.



**FINISH WELDING CHAIN MOUNTING
WELDMENT
FIG. 50-1**

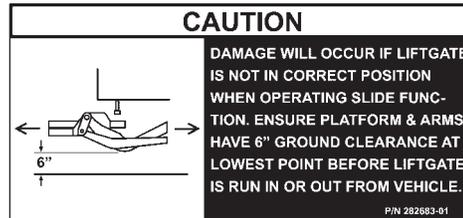
ATTACH DECALS



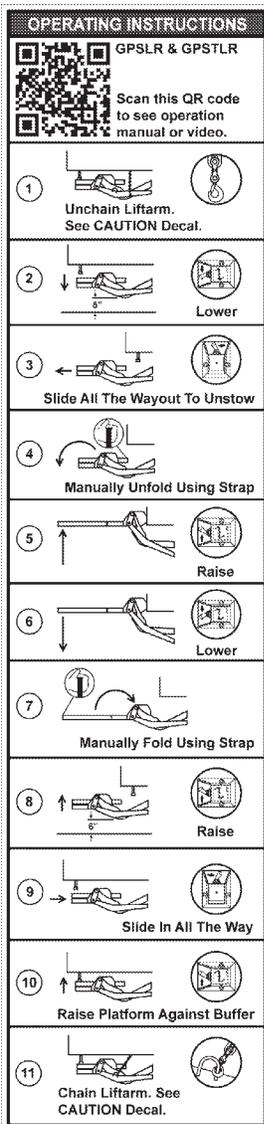
**CAUTION DECAL
P/N 283989-01**



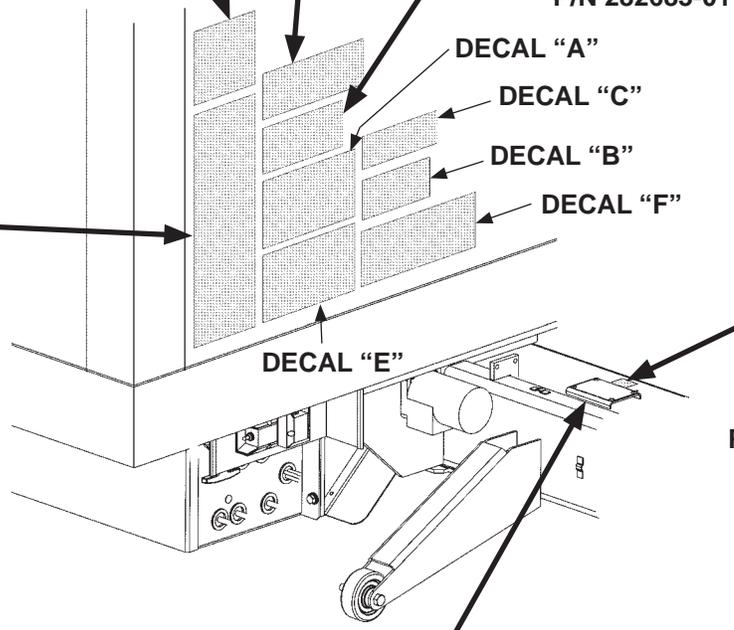
**CAUTION DECAL
P/N 282682-01**



**CAUTION DECAL
P/N 282683-01**



**OPERATION DECAL
P/N 282681-01**



**PARTS QR CODE
DECAL
P/N 299349-02**



SERIAL PLATE (REF)

FIG. 51-1

ATTACH 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)

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.

(E)



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.

(F)

Read and understand all instructions and WARNINGS before use.

CAUTION

Always stand clear of platform area.

(C)

THE MAXIMUM CAPACITY OF THIS LIFT IS

3300 POUNDS

WHEN THE LOAD IS CENTERED ON THE LOAD CARRYING PLATFORM

(B)

GPSLR-33 & GPSTLR-33 ONLY

THE MAXIMUM CAPACITY OF THIS LIFT IS

4400 POUNDS

WHEN THE LOAD IS CENTERED ON THE LOAD CARRYING PLATFORM

(B)

GPSLR-44 & GPSTLR-44 ONLY

| MODEL | DECAL SHEET P/N | DECAL "B" |
|-----------|-----------------|-------------|
| GPSLR-33 | 267431-01 | 3300 POUNDS |
| GPSLR-44 | 267431-02 | 4400 POUNDS |
| GPSTLR-33 | 267431-01 | 3300 POUNDS |
| GPSTLR-44 | 267431-02 | 4400 POUNDS |

TABLE 52-1

DECAL POSITIONS

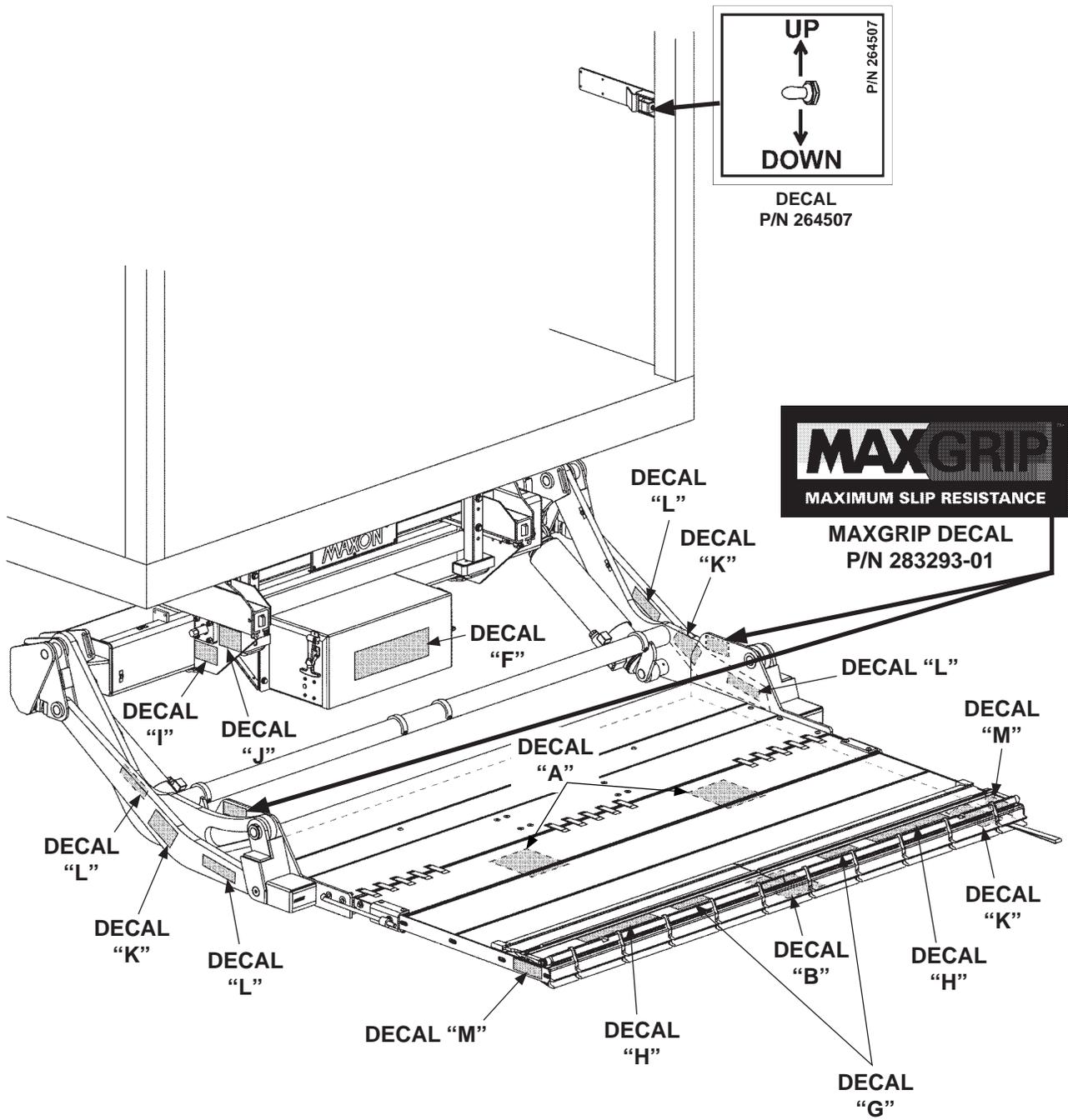


FIG. 53-1

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DECAL POSITIONS - Continued

WARNING

When unstowing & stowing platform, stay clear of bumpers.

P/N 267432-01 (A)

WARNING

To avoid injury stay out of the path where the platform unfolds. Unfold platform from the side.

P/N 267432-01 (B)

WARNING

Avoid possible injury & damage to equipment if slider moves under power. Ensure battery is disconnected from lift-gate before operating the slider manually.

P/N 267432-01 (J)

MANUAL SLIDER OPERATION & ACCESS INSTRUCTIONS

P/N 267432-01 (I)

WARNING

Keep hands & feet clear of lifting arms.

P/N 267432-01 (L)

WARNING

Keep hands clear of pinch points when folding flipover.

P/N 267432-01 (M)

WARNING

To avoid possible injury and damage to equipment, never stand on lift arms, parallel arms, or bottom side of platform.

P/N 267432-01 (K)

WARNING

To prevent personal injury & equipment damage, avoid working under the platform while platform is raised off the ground. Refer to Maintenance Manual for additional safety instructions.

P/N 267432-01 (E)

WARNING

To prevent personal injury & damaged equipment, ramp must be in retention position when cart is being raised or lowered on platform.

P/N 267432-01 (G)

1 Push locking arm and pull strap to unlock ramp

2 Push locking arm and pull ramp

3 Push locking arm and pull ramp

4 Push ramp

5 Push ramp

P/N 267432-01 (H)

DECAL SHEET P/N 267432-01
FIG. 54-1

SYSTEM DIAGRAMS

PUMP & MOTOR SOLENOID OPERATION

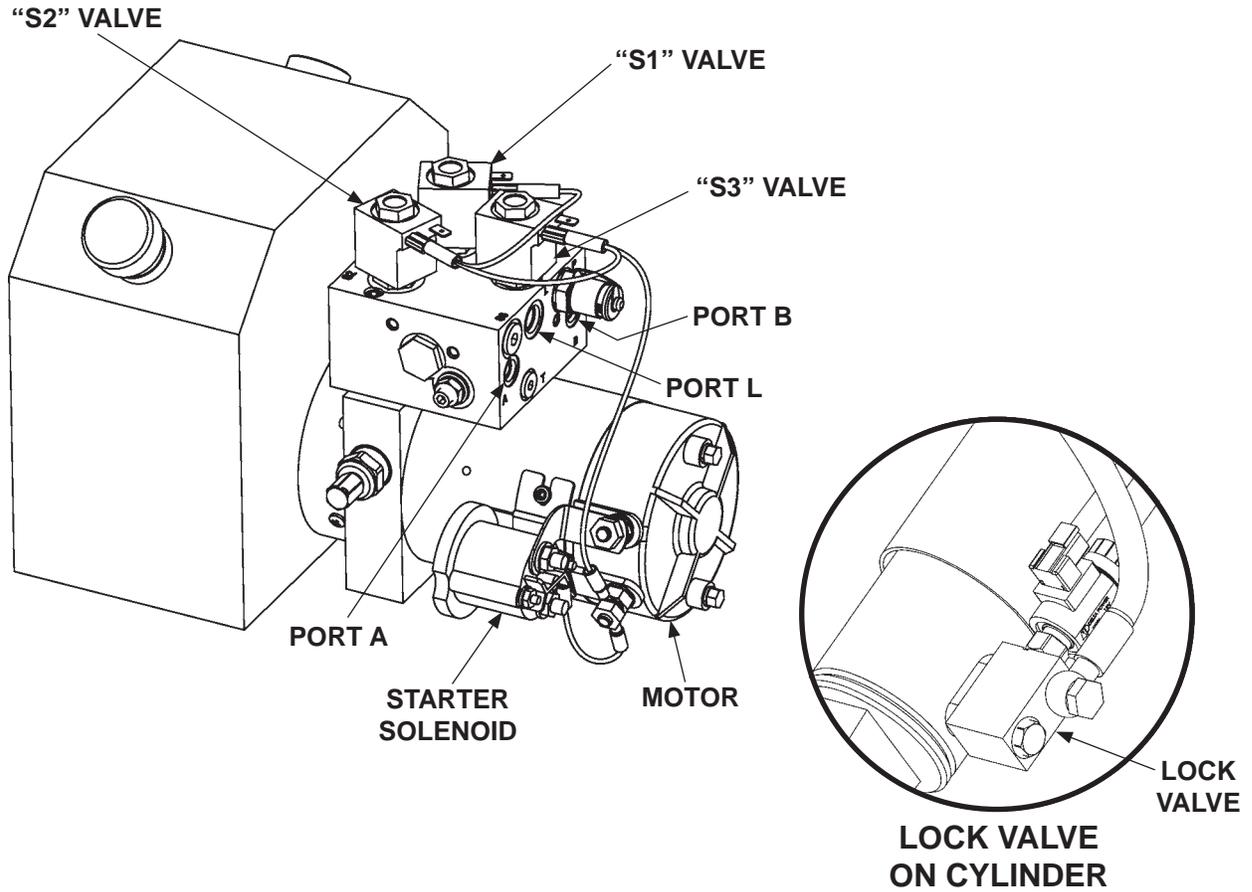


FIGURE 55-1

| POWER UNIT MOTOR & SOLENOID OPERATION | | | | | | |
|---------------------------------------|------|---|---------------|---------------|---------------|---------------|
| TAIL LIFT FUNCTION | PORT | SOLENOID OPERATION (✓ MEANS ENERGIZED) | | | | |
| | | MOTOR | VALVE "S1" | VALVE "S2" | VALVE "S3" | LOCK VALVE |
| RAISE | L | ✓ | - | - | - | ✓ |
| LOWER | L | - | - | - | ✓ | ✓ |
| SLIDE OPEN | A | ✓ | - | ✓ | - | - |
| SLIDE CLOSED* | B | ✓ | ✓ | - | - | - |

REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC

TABLE 55-1

SYSTEM DIAGRAMS - Continued

HYDRAULIC SCHEMATIC

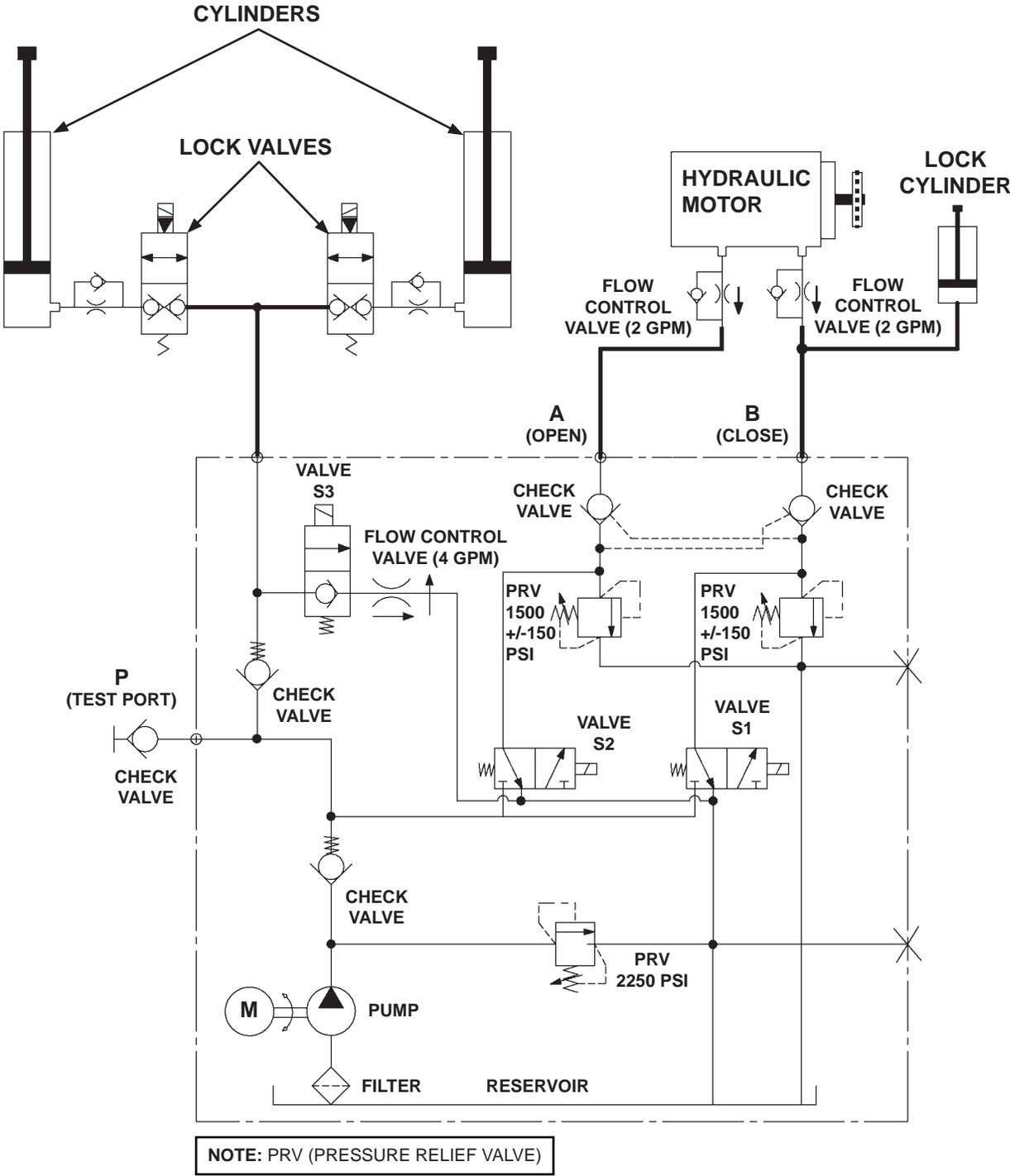


FIGURE 56-1

SYSTEM DIAGRAMS - Continued

ELECTRICAL SCHEMATIC

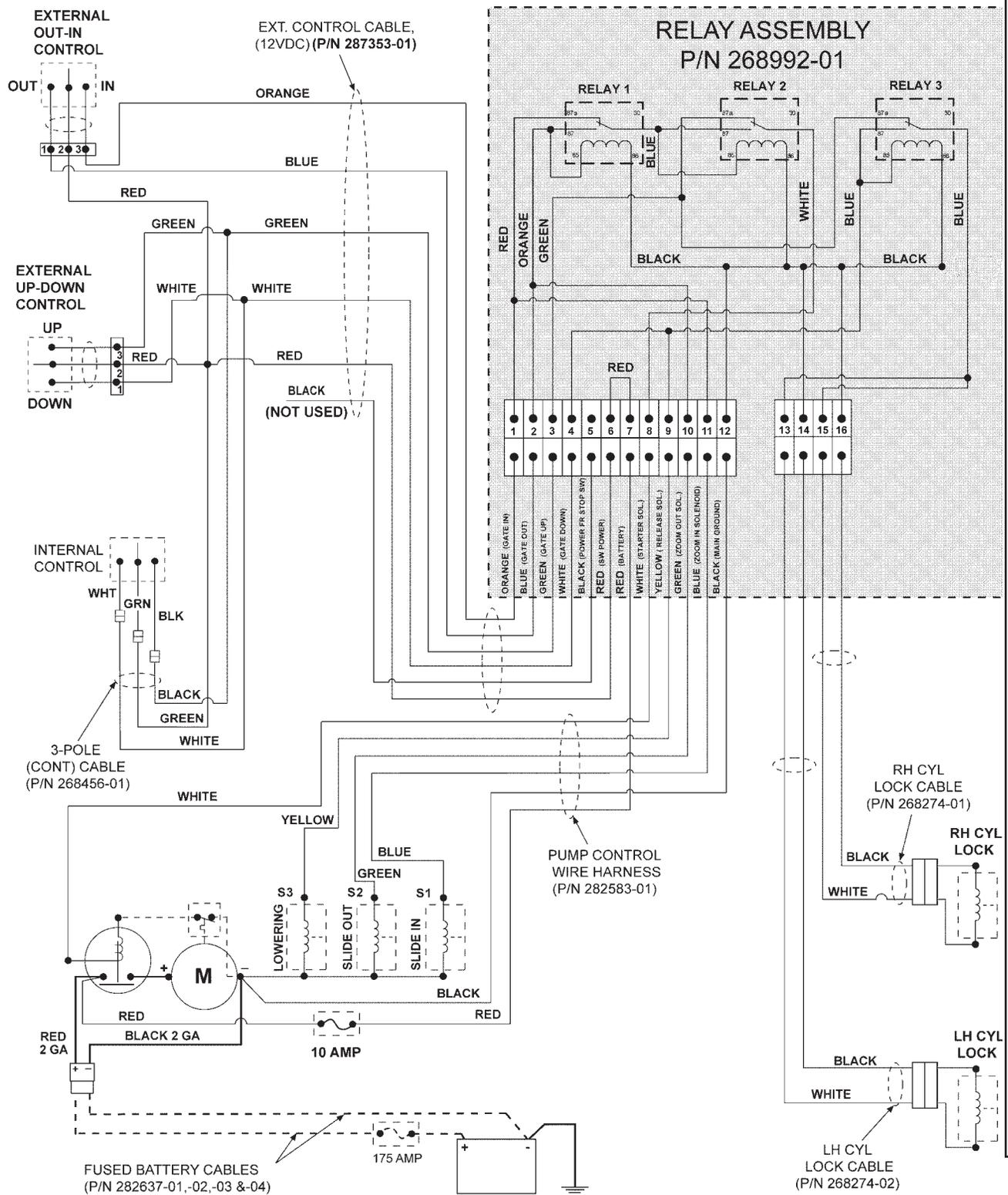


FIG. 57-1

OPTIONS OPTIONAL LIFTGATE COMPONENTS

| MISCELLANEOUS KITS | PART NO. |
|---|-----------|
| CIRCUIT BREAKER (150 AMP) | 251576 |
| GPSLR HARNESS (INTERNAL SWITCH) | 287837-01 |
| INSTALLATION JIG | |
| GPSLR INSTALLATION JIG ASSEMBY | 268592-01 |
| BATTERY CABLE KITS | |
| GPSLR 3' BATTERY INSTALLATION | 268802-01 |
| GPSLR 10' BATTERY INSTALLATION | 268802-02 |
| GPSLR 20' BATTERY INSTALLATION | 268802-03 |
| GPSLR 60' BATTERY INSTALLATION | 268802-04 |
| GPSLR 30' BATTERY INSTALLATION | 268802-05 |
| BATTERY CABLE AND 150 AMP CIRCUIT BREAKER KITS | |
| GPSLR 3' BATTERY INSTALLATION WITH 150 AMP CIRCUIT BREAKER | 299890-01 |
| GPSLR 10' BATTERY INSTALLATION WITH 150 AMP CIRCUIT BREAKER | 299890-02 |
| GPSLR 20' BATTERY INSTALLATION WITH 150 AMP CIRCUIT BREAKER | 299890-03 |
| GPSLR 60' BATTERY INSTALLATION WITH 150 AMP CIRCUIT BREAKER | 299890-04 |
| GPSLR 30' BATTERY INSTALLATION WITH 150 AMP CIRCUIT BREAKER | 299890-05 |
| TOUCH-UP PAINT KIT | |
| TOUCH-UP PAINT (BCG) WITH ALUMINUM PRIMER, SMALL | 908134-01 |

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MAXON®

PRE-DELIVERY INSPECTION FORM

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

Model: _____

Date: _____

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 rear door & 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 body, are tight.
- Ensure platform ramp touches ground when shackles are 1" above ground, and platform & flipover are level & touching the ground.

Hydraulic Inspection:

- Fluid is 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:

- Power/charge plug and terminals are clean & tight.
- Individual wire connections are tight.
- Circuit breaker (150A) is installed in battery box (if equipped) or by truck/tractor battery.
- Batteries are fully charged, all cable connections are tight & tie-downs 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 53" bed height, aluminum platform and flipover, Exxon Unis HVI-13 oil, & temperature at 70°F. Times are for reference only and may vary for larger platforms, smaller platforms, or temperature changes.

- Check operation of all main and optional control switches.

GPSLR-33

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

GPSLR-44

- Unloaded platform lowers in **7 to 11 sec.**
- Unloaded platform raises in **9 to 13 sec.**
- All GPSLR:** Unloaded platform raises and lowers evenly. At the extension plate, platform must not be more than 1/8" uneven, from side to side.
- All GPSLR:** Platform stores securely under vehicle body.
- Check if cycle counter works.
- Decals 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.

