

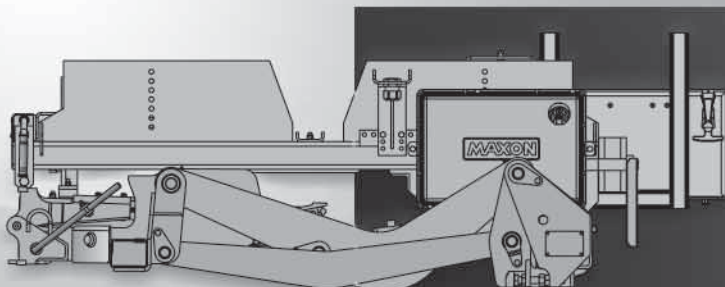
MAXON[®]

M-18-08
SEPTEMBER 2020
REV A

GPSLR Series

INSTALLATION MANUAL

GPSLR-35, GPSLR-44 & GPSLR-55
GPSLRT-35, GPSLRT-44 & GPSLRT-55



To find **maintenance & parts** information for your **GPSLR Liftgates**, go to www.maxon-lift.com. Click the **PRODUCTS**, **SLIDELIFT** and **GPSLR** buttons. Open the **Maintenance Manual** in the **PRODUCT DOCUMENTATION** window. For parts, click on the **PARTS PORTAL**, **SLIDELIFT** and **GPSLR** buttons.

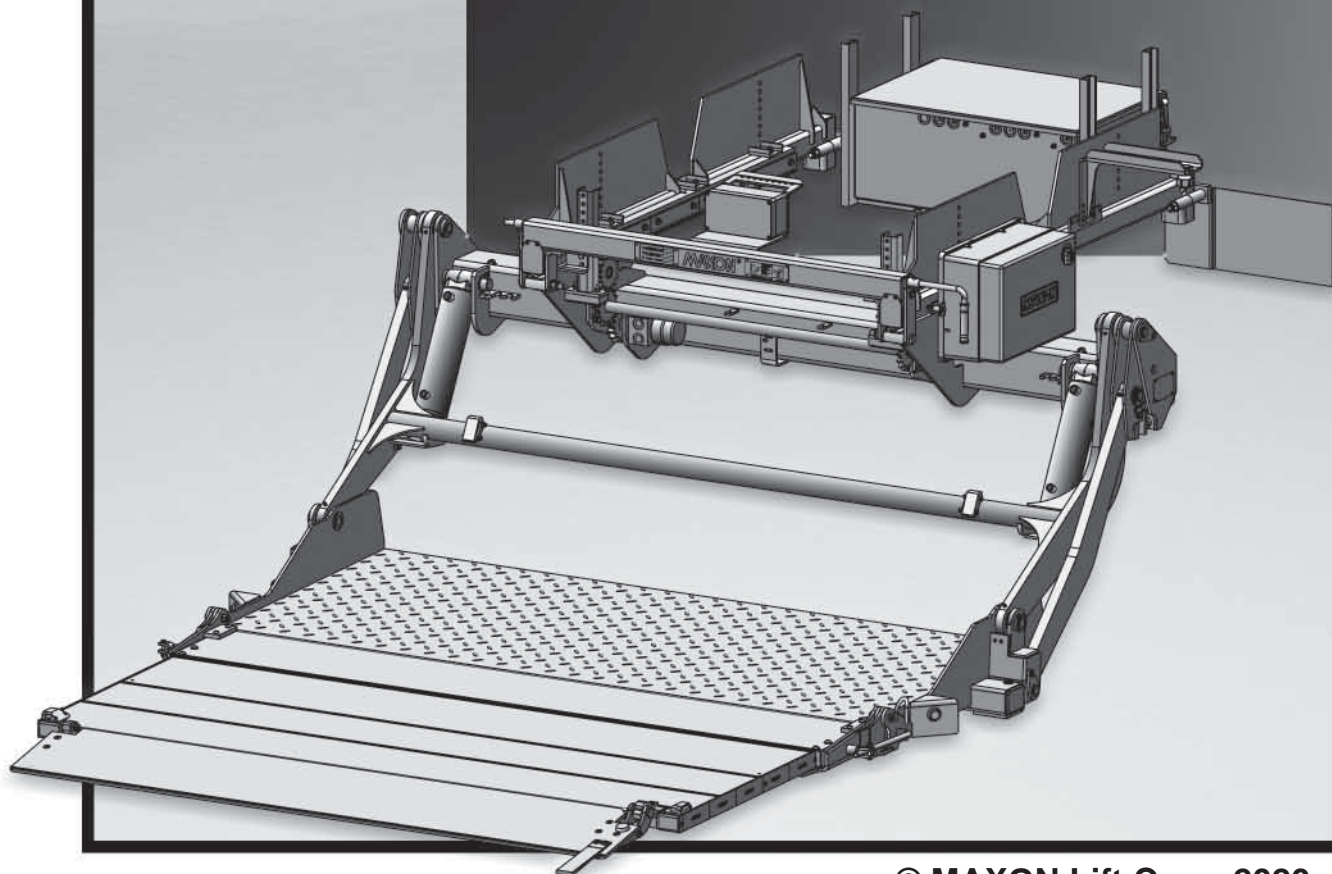


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SUMMARY OF CHANGES: M-18-08, REVISION A

PAGE	DESCRIPTION OF CHANGE
COVER	Updated REV. and date of release.
5	Added California Proposition 65 WARNING.
49, 51, 52	Changed torque value for platform adjustment bolt to 100 lb-ft.
59	CAUTION decals were updated to show commonized GPSLR liftgate.
61	Parts decal with QR code was added for commonized GPSLR liftgate.

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

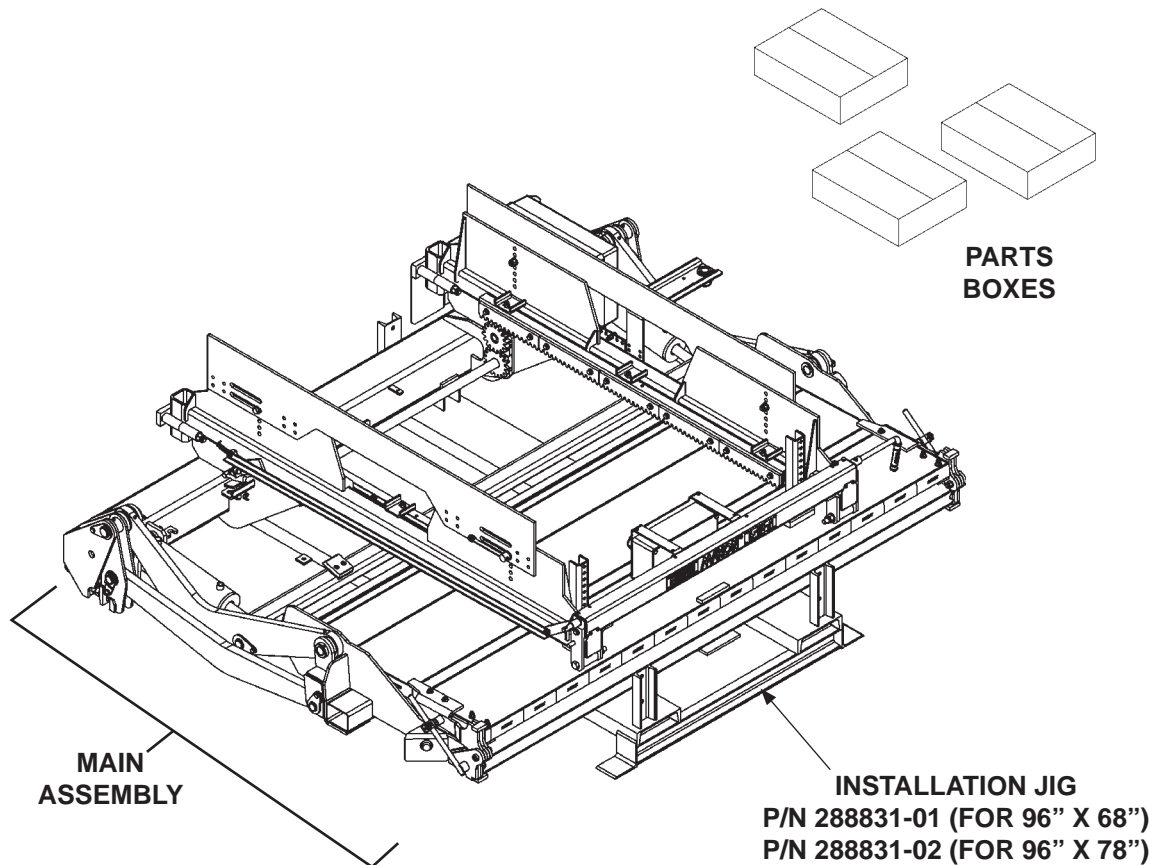
STANDARD LIFTGATE COMPONENTS

⚠ 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 1750 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:

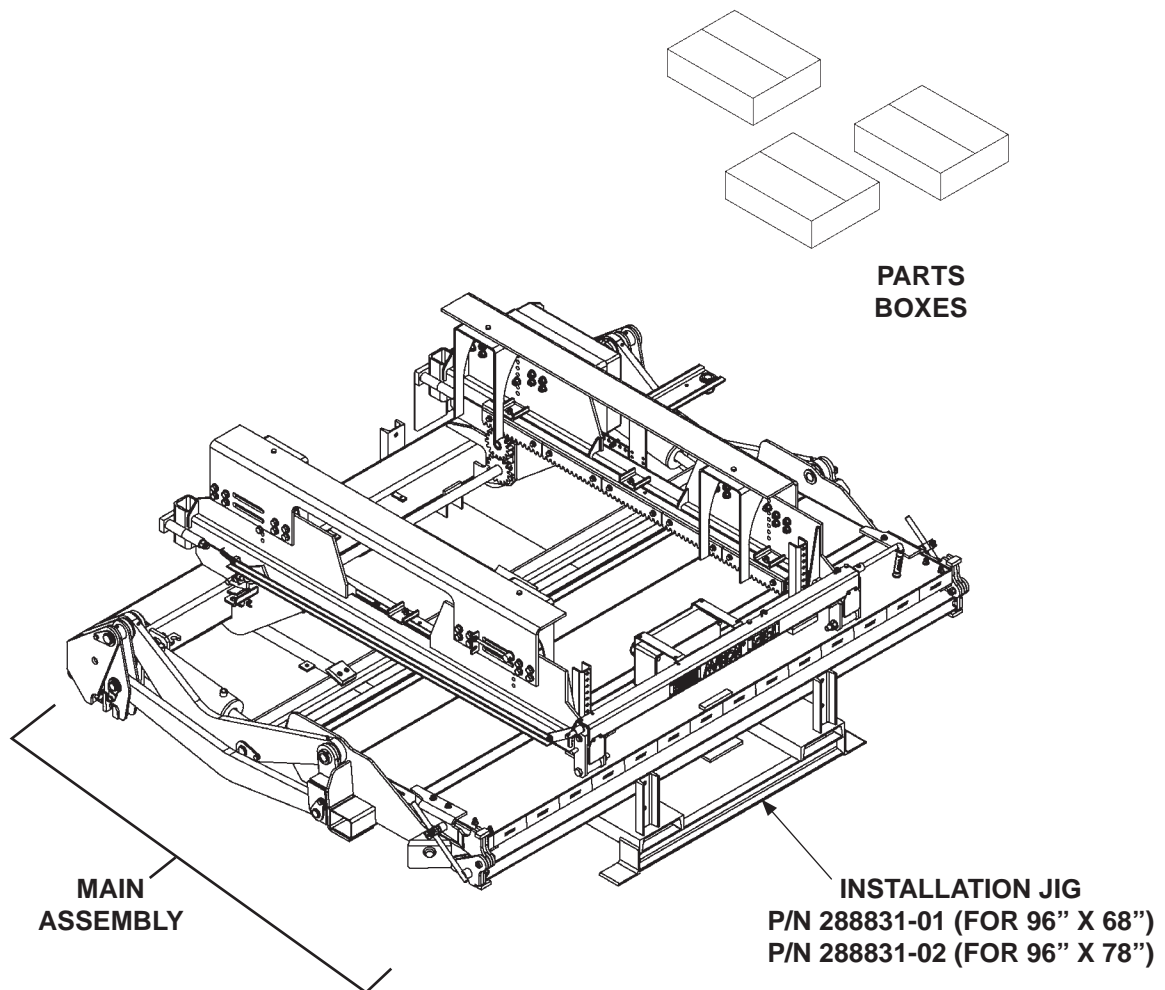
Maxon Customer Service
Call (800) 227-4116 or
Send e-mail to cservice@maxonlift.com



**GPSLR TRUCK/TRAILER REAR MOUNT LIFTGATE COMPONENTS FOR SHIPMENT
(OPTIONAL COMPONENTS NOT SHOWN)**

FIG. 7-1

STANDARD LIFTGATE COMPONENTS - Continued



**GPSLRT TRUCK REAR MOUNT LIFTGATE COMPONENTS FOR SHIPMENT
(OPTIONAL COMPONENTS NOT SHOWN)**

FIG. 8-1

GPSLR INSTALLATION PARTS BOX

	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	GPSLR INSTALLATION PARTS BOX	1	289259-01
1	GUSSET, GPSLR MOUNT	12	268674-01
2	PLATE, GPSLR SUPPORT	12	268675-01
3	PLATE, GPSLR MOUNT	12	268676-01

**INSTALLATION ON CROSSMEMBER
TABLE 9-1**

	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	GPSLR INSTALLATION PARTS BOX	1	289259-02
1	GUSSET, GPSLR MOUNT	12	268674-01

**INSTALLATION ON 48-1/8" SLIDE RAIL
TABLE 9-2**

	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	GPSLR INSTALLATION PARTS BOX	1	289259-03
1	GUSSET, GPSLR MOUNT	12	268674-01
2	FLAT, 1/4" X 3-1/2" X 20" LG.	4	090148-10

**INSTALLATION ON 48-5/8" SLIDE RAIL
TABLE 9-3**

GPSLRT PARTS BOX (TRUCK REAR MOUNT)

	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX, SLIDER	1	289101-01
1	HEX FRAME BOLT 1/2"-13 X 1-1/2" LG.	16	901024-5
2	FLAT WASHER, 1/2"	16	902013-13
3	FLANGE LOCK NUT, GRADE G	16	901023
4	MAIN CONTROL SWITCH	1	289001-01
5	CONTROL SWITCH MOUNTING BRACKET	1	289134-01G
6	BUTTON SCREW, 1/4"-20 X 1" LG.	2	900719-07
7	NYLON INSERT STOP NUT, 1/4"-20	2	903137-01
8	FLAT WASHER, 1/4"	2	903412-01
9	CONTROL SWITCH ASSEMBLY	1	289353-01
10	DECAL SHEET, UP/DOWN	1	299038-01
11	INTERNAL SWITCH MOUNTING BRACKET, GALVANIZED	1	289255-01G
12	SELF TAPPING SCREW, 10-24 X 1/2" LG.	4	900766-02
13	FLAT WASHER, #10	6	903444-01
14	BUTTON SCREW, 10-24 X 1-1/2" LG.	2	900722-09
15	NYLON INSERT NUT, THIN, 10-24	2	903129-01
16	CABLE TIE, SCREW MOUNT, 1-1/2" DIA.	5	905398-01
17	SELF-DRILLING SCREW, #6-20	5	900818-01
18	STOW FLASHING LIGHT KIT, 40'	1	289355-01
19	SAFETY STOW CHAIN, GPSLR	1	287132-01
20	FUSE HOLDER ASSEMBLY, 10 AMP, 3/8" RING	1	285013-04
21	CIRCUIT BREAKER KIT, 175 AMPS, 30 VDC	1	289723-01
22	PLASTIC TIE, 7" LG.	20	205780

TABLE 10-1

GPSLR PARTS BOX (TRAILER REAR MOUNT)

	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX, SLIDER	1	289101-02
1	HEX FRAME BOLT 1/2"-13 X 1-1/2" LG.	16	901024-5
2	FLAT WASHER, 1/2"	16	902013-13
3	FLANGE LOCK NUT, GRADE G	16	901023
4	MAIN CONTROL SWITCH	1	289001-01
5	CONTROL SWITCH MOUNTING BRACKET	1	289134-01G
6	BUTTON SCREW, 1/4"-20 X 1" LG.	2	900719-07
7	NYLON INSERT STOP NUT, 1/4"-20	2	903137-01
8	FLAT WASHER, 1/4"	2	903412-01
9	CONTROL SWITCH ASSEMBLY	1	289353-01
10	DECAL SHEET, UP/DOWN	1	299038-01
11	INTERNAL SWITCH MOUNTING BRACKET, GALVANIZED	1	289255-01G
12	SELF TAPPING SCREW, 10-24 X 1/2" LG.	4	900766-02
13	FLAT WASHER, #10	6	903444-01
14	BUTTON SCREW, 10-24 X 1-1/2" LG.	2	900722-09
15	NYLON INSERT NUT, THIN, 10-24	2	903129-01
16	CABLE TIE, SCREW MOUNT, 1-1/2" DIA.	5	905398-01
17	SELF-DRILLING SCREW, #6-20	5	900818-01
18	STOW FLASHING LIGHT KIT, 60'	1	289355-02
19	SAFETY STOW CHAIN, GPSLR	1	287132-01
20	FUSE HOLDER ASSEMBLY, 10 AMP, 3/8" RING	1	285013-04
21	CIRCUIT BREAKER KIT, 175 AMPS, 30 VDC	1	289723-01
22	PLASTIC TIE, 7" LG.	20	205780

TABLE 11-1

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:

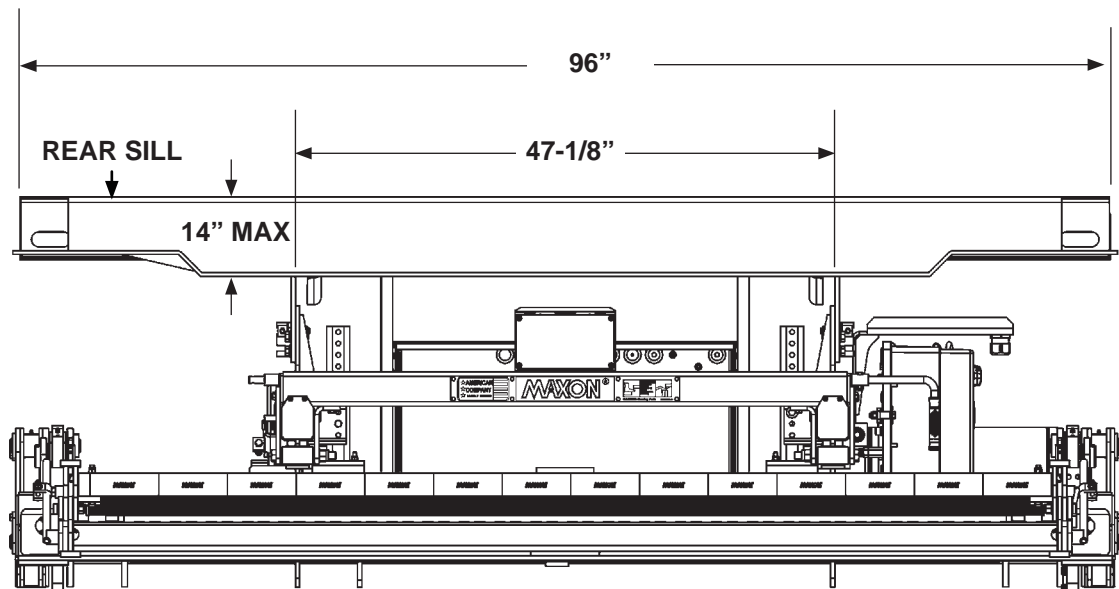
Maximum height is **60"** (Unloaded). Minimum height is **46"** (Loaded).
On vehicle bodies equipped with swing-open doors, the platform may have to be modified to install this Liftgate.

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 INSTALLATION PLATE** procedure in this manual.

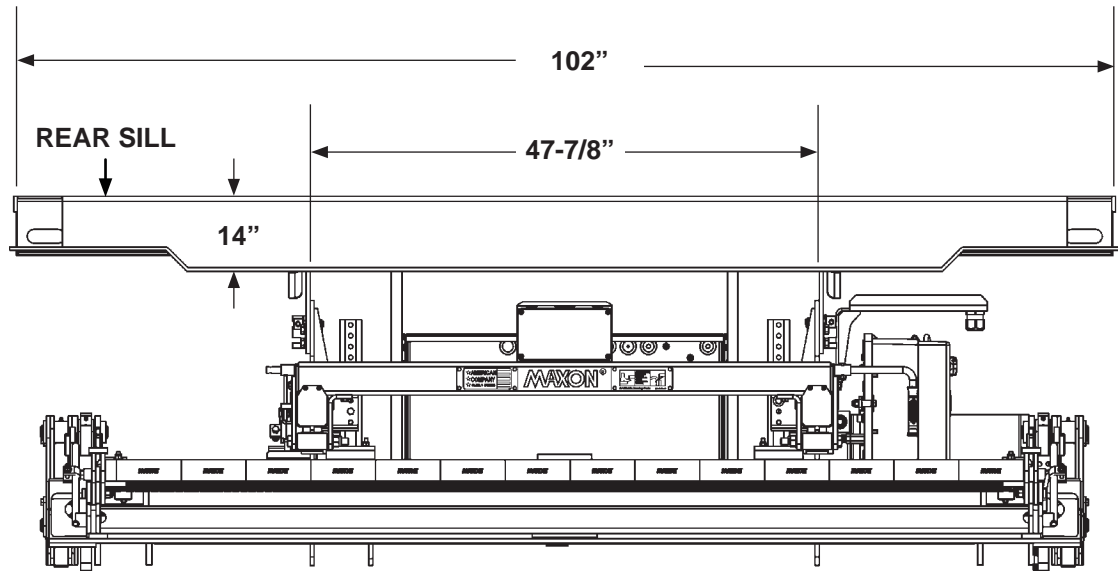
Check for correct clearances (**FIGS. 14-1, 14-2, 15-1 and 15-2**) on vehicle to prevent interference between vehicle and Liftgate.

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
FOR 96" WIDE VEHICLE
FIG. 12-1**

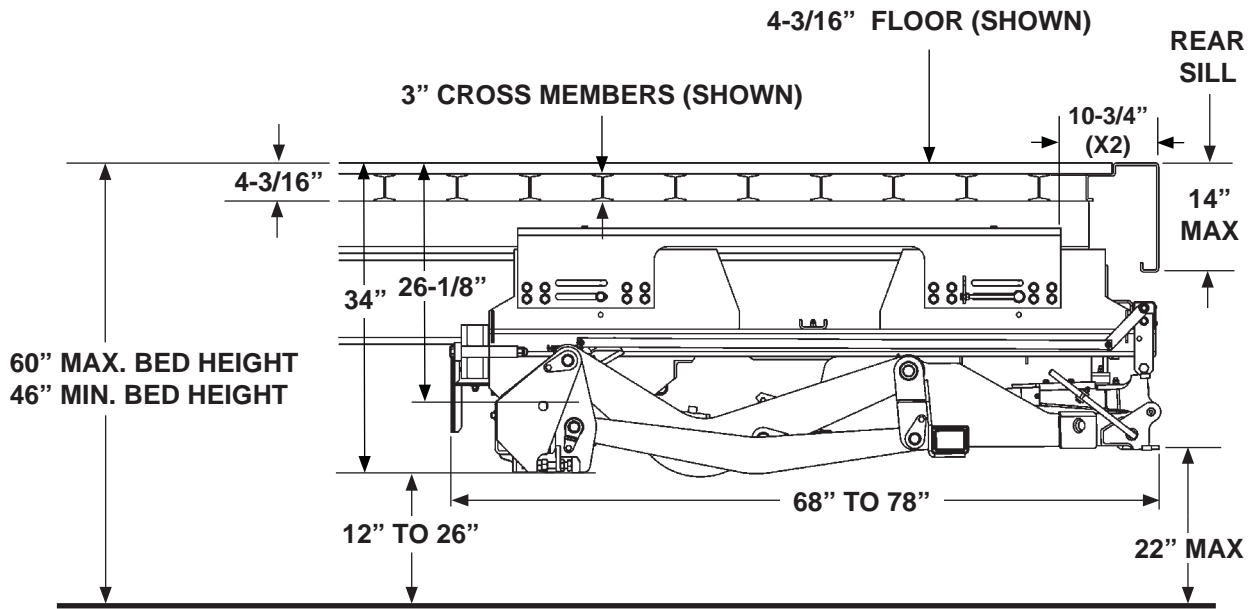
VEHICLE REQUIREMENTS - Continued



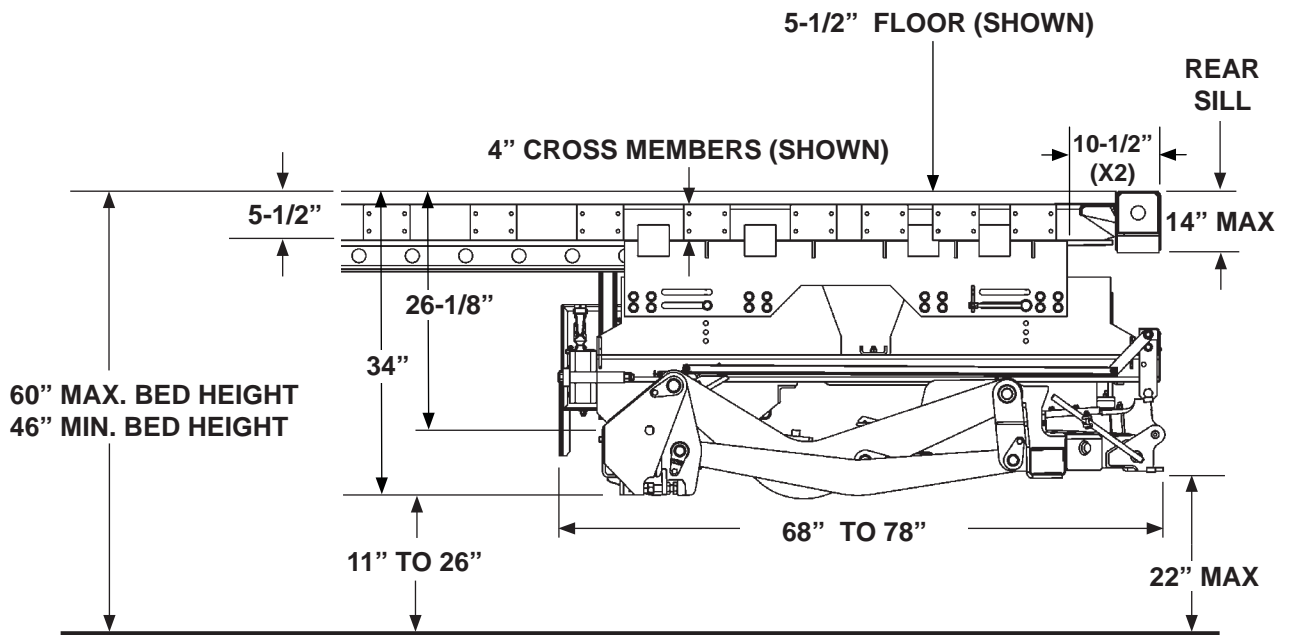
OVERALL WIDTH OF GPSLR LIFTGATE & MOUNTING FRAME
FOR 102" WIDE VEHICLE

FIG. 13-1

VEHICLE REQUIREMENTS - Continued



CLEARANCES FOR GPSLR WITH 68" TO 78" SLIDE RAILS (TRUCK)
FIG. 14-1

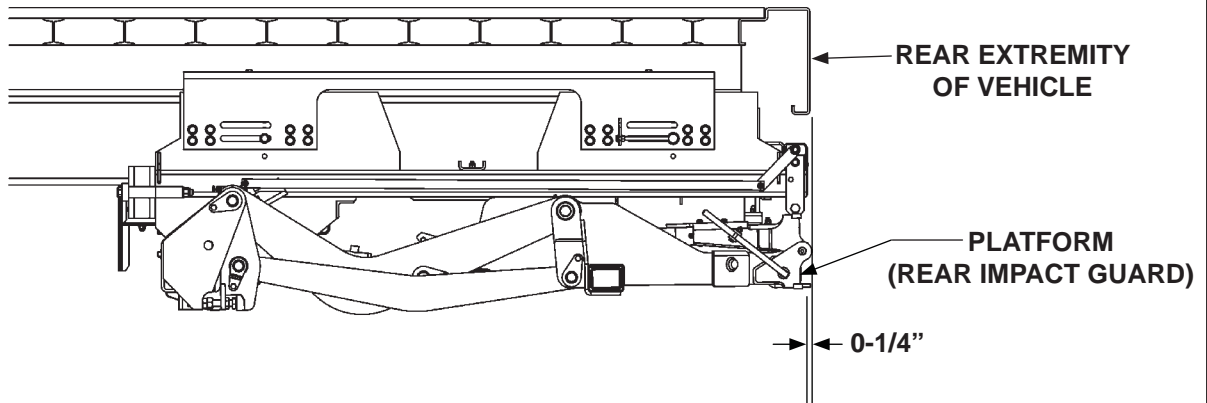


CLEARANCES FOR GPSLR WITH 68"- 78" SLIDE RAILS (TRAILER)
FIG. 14-2

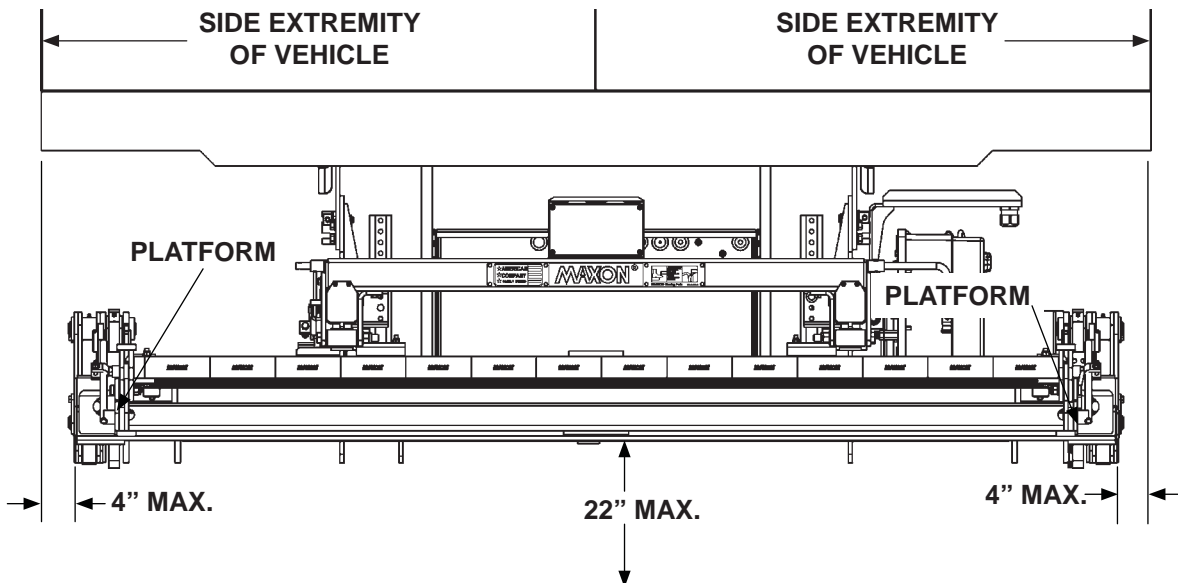
VEHICLE REQUIREMENTS - Continued

REAR IMPACT GUARD

NOTE: The stowed GPSLR platform functions as a rear impact guard for vehicle. To comply with current Canadian Motor Vehicle Safety Standards (**CMVSS 223**), the rear impact guard must be within the rear-end, side, and ground clearances shown in **FIGS. 15-1 & 15-2**.



REQUIRED REAR-END CLEARANCES OF REAR IMPACT GUARD
FIG. 15-1



REQUIRED GROUND & SIDE CLEARANCES OF REAR IMPACT GUARD
FIG. 15-2

STEP 1 - CHOOSE METHOD OF INSTALLATION

Four methods for mounting a GPSLR Liftgate on a truck or trailer chassis are covered in this manual. Method 1 is the preferred standard method of installation.

INSTALLATION ON REAR OF TRAILER

METHOD 1 - For mounting installation plates flush against slide rail (**FIG. 16-1**) using gussets (Kit Items) supporting slide rail, refer to **WELDING INSTALLATION PLATES TO TRAILER, METHOD 1** instructions in **STEP 2**.

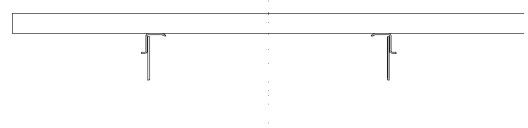


FIG. 16-1

METHOD 2 - For mounting installation plates on inside slide rail (**FIG. 16-2**) using 1/4" spacers (Kit items) and gussets (Kit items) supporting slide rail, refer to **WELDING INSTALLATION PLATES TO TRAILER, METHOD 2** instructions in **STEP 2**.

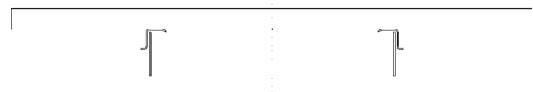


FIG. 16-2

METHOD 3 - For mounting installation plates on crossmembers (**FIG. 16-3**) using gussets (Kit items) supporting slide rail, refer to **WELDING INSTALLATION PLATES TO TRAILER, METHOD 3** instructions in **STEP 2**.



FIG. 16-3

INSTALLATION ON REAR OF TRUCK

METHOD 4 - For mounting installation plates to vehicle chassis (**FIG. 16-4**), refer to **WELDING INSTALLATION PLATES TO TRUCK BODY, METHOD 4** instructions in **STEP 2**.

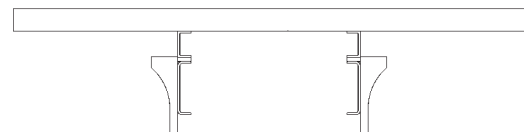


FIG. 16-4

STEP 2 - WELD LIFTGATE ON VEHICLE

WARNING

Use weld blankets to protect lines and tubes from weld splatter.

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 avoid personal injury, use at least 2 people to position Liftgate.

NOTE: For installation of this Liftgate, the maximum distance from bottom of trailer cross members to top of trailer floor is 10-1/2" max.

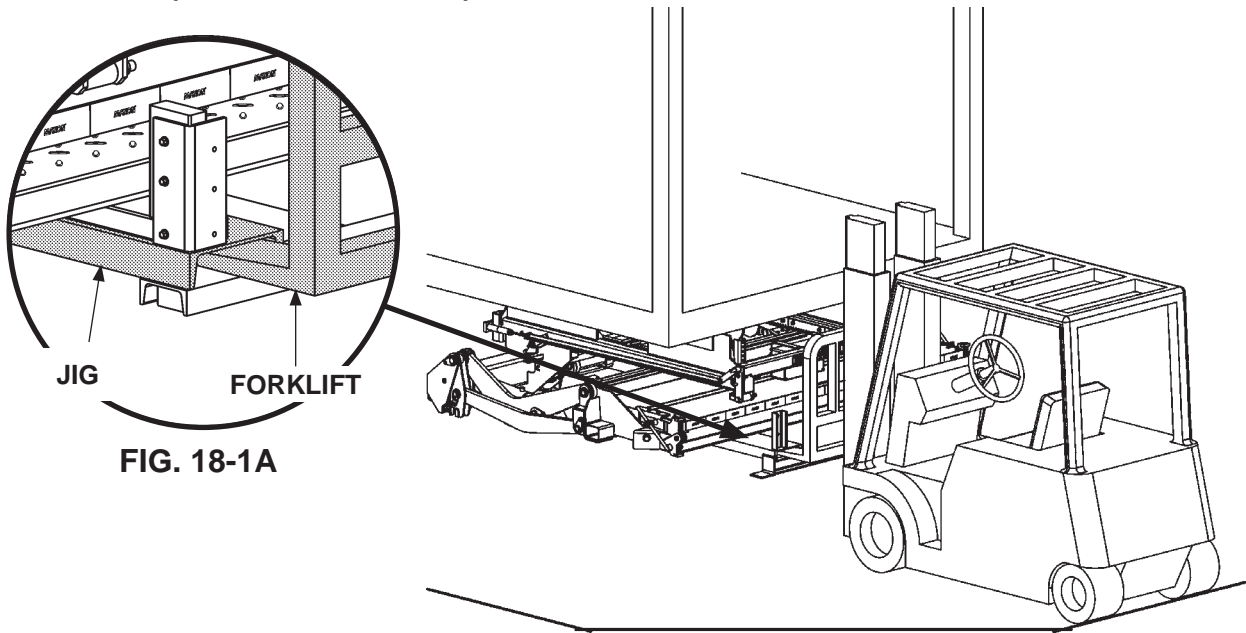
NOTE: Liftgate must be welded to at least 6 fixed trailer crossmembers that are typically spaced 12" between centers.

NOTE: Ideal installation is for edge of platform to be aligned with rear door opening.

NOTE: Switches, stow mechanism, latch release handle and platform latch may be located on either side of the Liftgate during installation, depending on location of trailer door hinges.

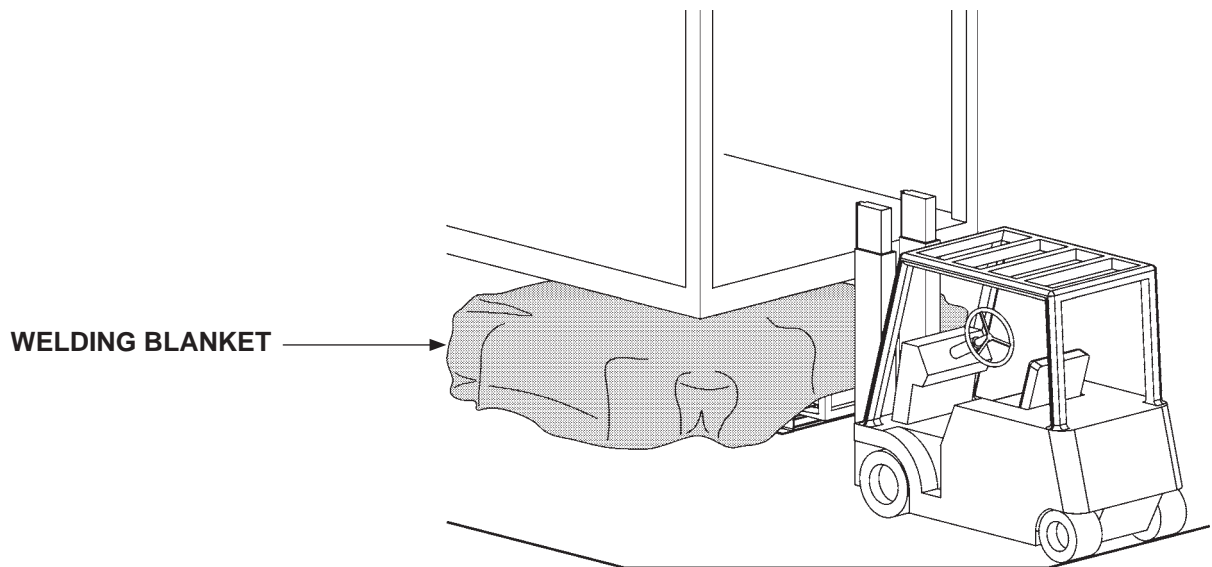
STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

1. With forklift, position the Liftgate centered to the rear of vehicle (**FIGS. 18-1 & 18-1A**).



POSITIONING LIFTGATE TO VEHICLE
FIG. 18-1

2. Cover Liftgate with welding blanket (**FIG. 18-2**).



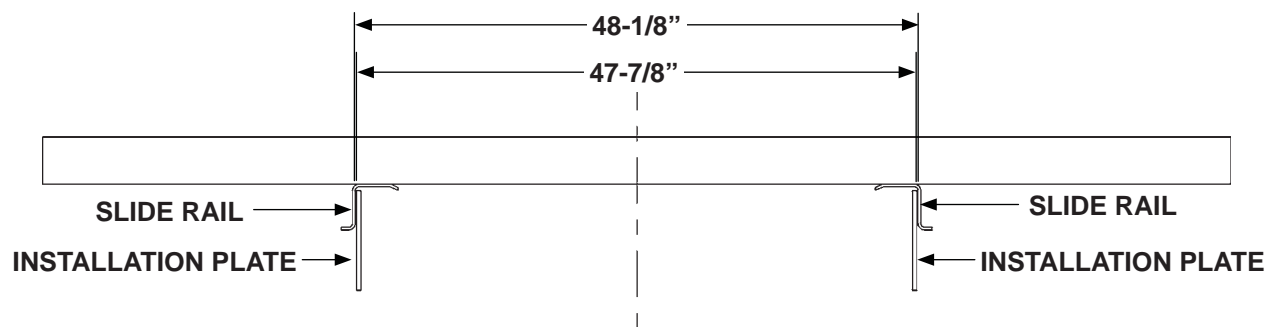
COVERING LIFTGATE WITH WEDLING BLANKET
FIG. 18-2

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 1 - WELDING INSTALLATION PLATES FLUSH TO TRAILER SLIDE RAIL

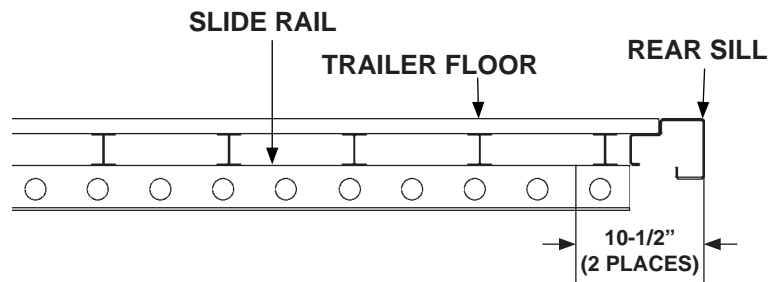
NOTE: Method 1 instructions are intended for mounting Liftgate installation plates (Kit items), on a trailer, flush against slide rail using supporting gussets (Kit items). Reference **FIG. 19-1**.

NOTE: Although installation plates are attached to Liftgate, for clarity, Liftgate is not shown on following images.



INSTALLING INSTALLATION PLATES FLUSH AGAINST SLIDE RAIL
FIG. 19-1

1. Mark position for placement of installation plates on trailer frame as shown in **FIG. 19-2**.



MARKING POSITION FOR INSTALLATION PLATES
FIG. 19-2

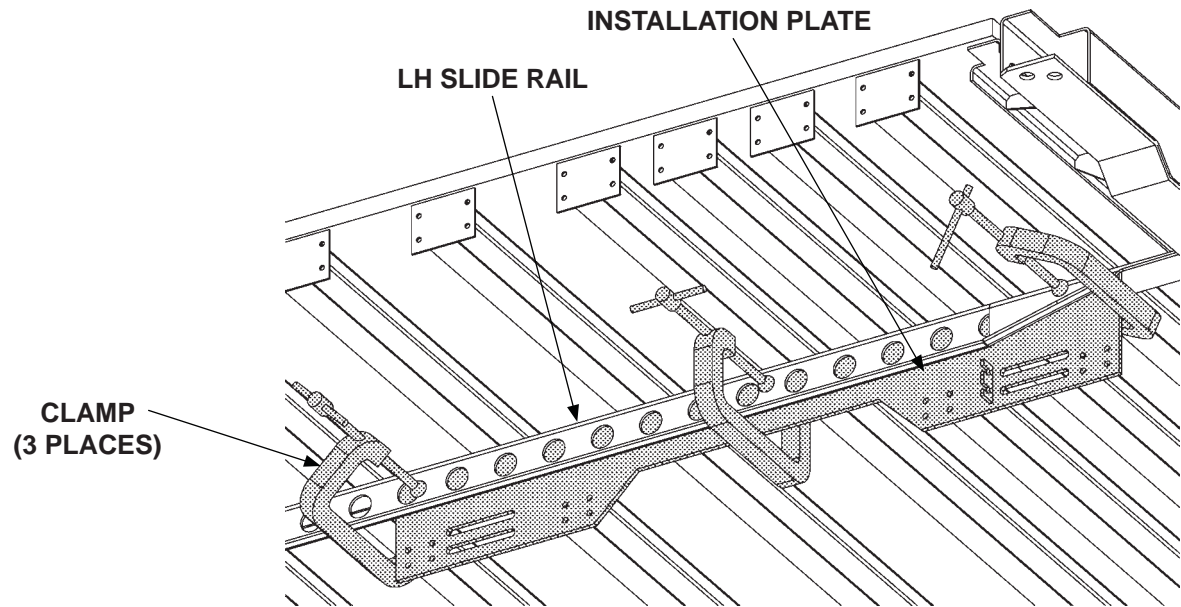
STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 1 - WELDING INSTALLATION PLATES FLUSH TO TRAILER SLIDE RAIL - Continued

CAUTION

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

2. Line up end of LH installation plate with the position mark on the slide rail. Clamp installation plate to LH slide rail (**FIG. 20-1**).

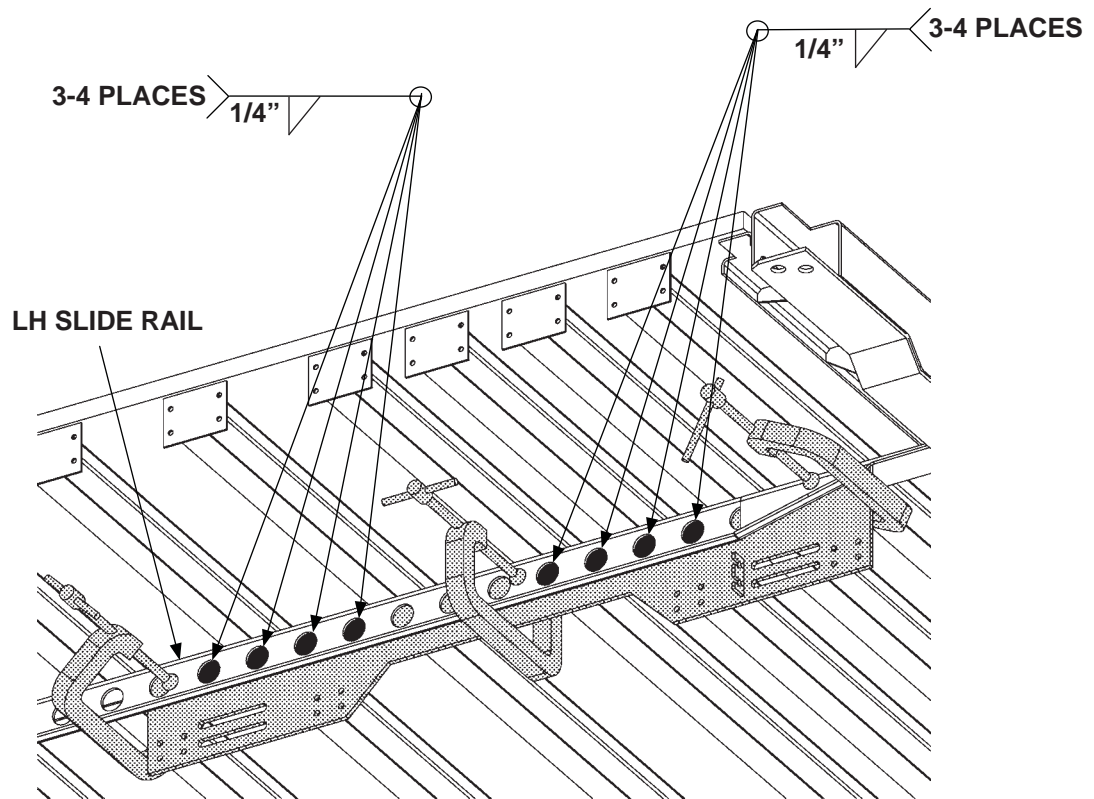


CLAMPING INSTALLATION PLATE TO SLIDE RAIL
FIG. 20-1

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 1 - WELDING INSTALLATION PLATES FLUSH TO TRAILER SLIDE RAIL - Continued

3. Weld LH installation plate to slide rail as shown in **FIG. 21-1**.



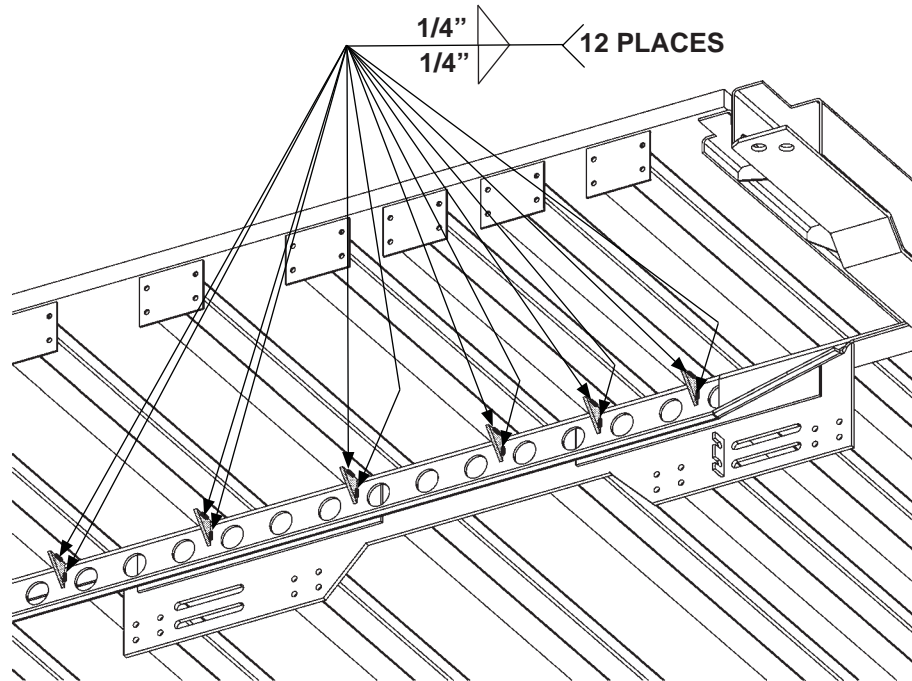
WELDING INSTALLATION PLATE TO SLIDE RAIL
FIG. 21-1

4. Remove clamps.

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 1 - WELDING INSTALLATION PLATES FLUSH TO TRAILER SLIDE RAIL - Continued

5. Weld installation gussets (Kit items) to LH slide rail and crossmembers as shown in **FIG. 22-1**.



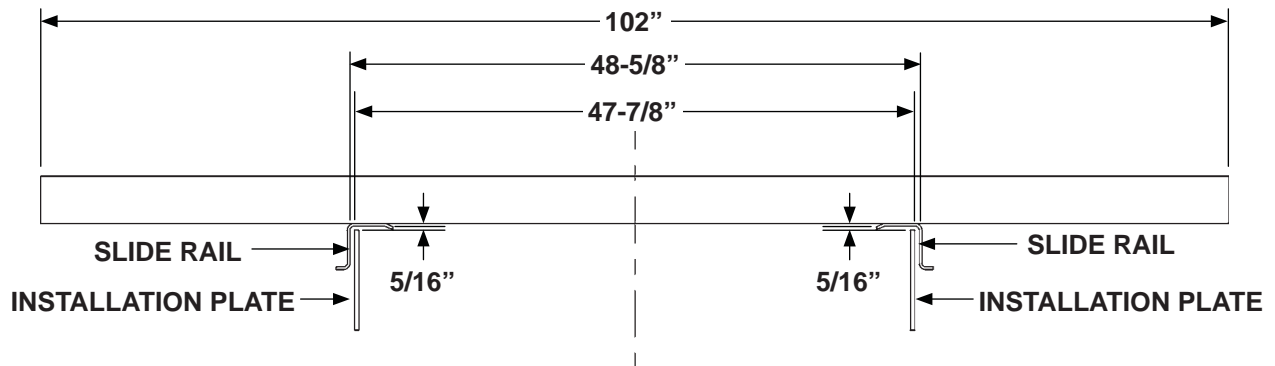
**WELDING INSTALLATION GUSSETS TO SLIDE RAIL
AND CROSSMEMBERS**
FIG. 22-1

6. Repeat instructions 1-5 for RH installation plate.

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

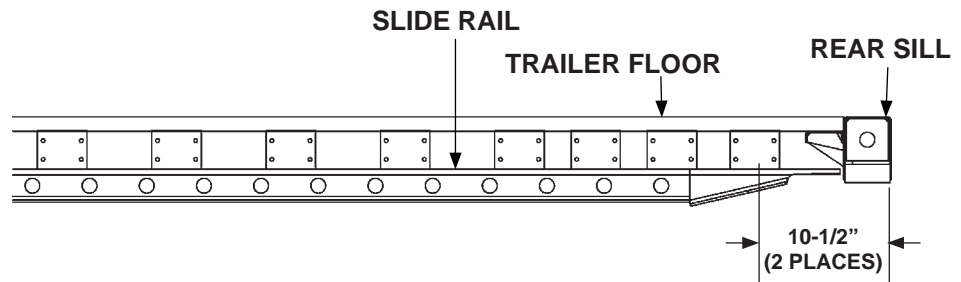
METHOD 2 - WELDING INSTALLATION PLATES TO TRAILER SLIDE RAIL USING 1/4" SPACERS

NOTE: Method 2 instructions are intended for mounting installation plates (Kit items) using 1/4" spacers (Kit items) and slide rail supporting gussets (Kit items) on a trailer. Reference **FIG. 23-1**.



INSTALLING INSTALLATION PLATES USING 1/4" SPACERS
FIG. 23-1

1. Mark position for placement of installation plates on trailer frame as shown in **FIG. 23-2**.

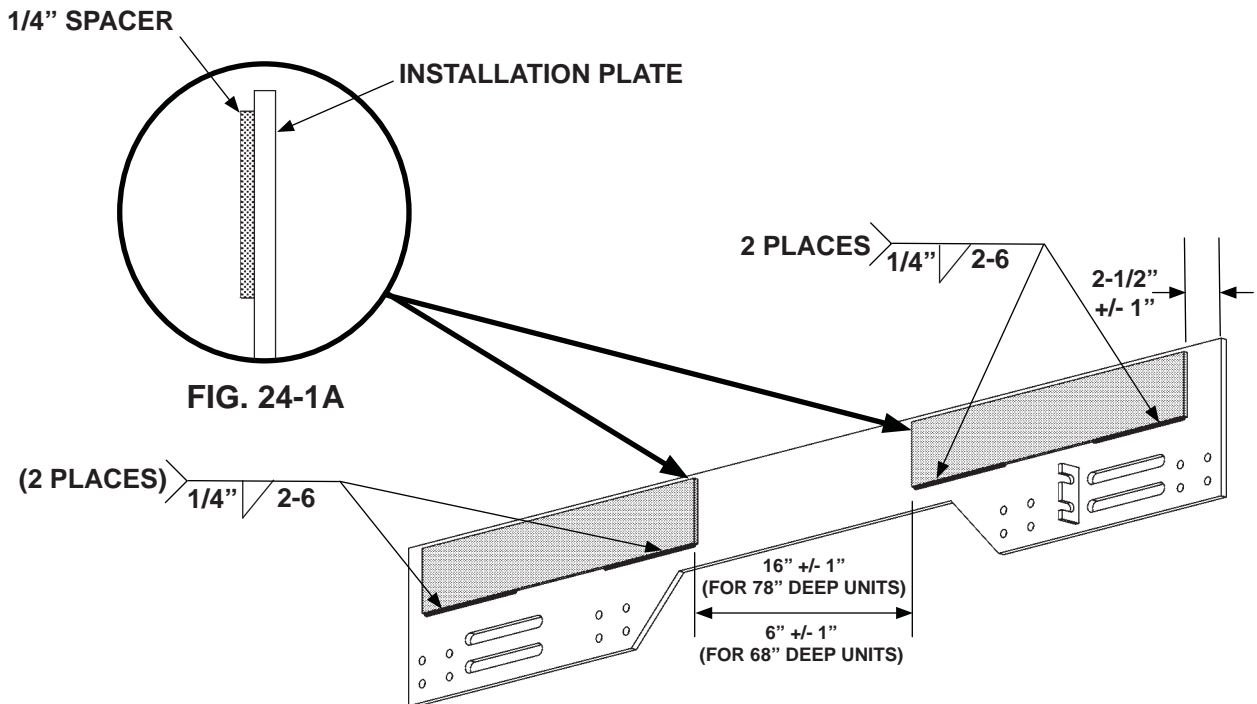


MARKING POSITION FOR INSTALLATION PLATES
FIG. 23-2

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 2 - WELDING INSTALLATION PLATES TO TRAILER SLIDE RAIL USING 1/4" SPACERS - Continued

2. Measure, position and weld 1/4" spacer to outside of LH installation plate as shown in **FIGS. 24-1** and **24-1A**.



WELDING FLAT SPACER TO INSTALLATION PLATE
FIG. 24-1

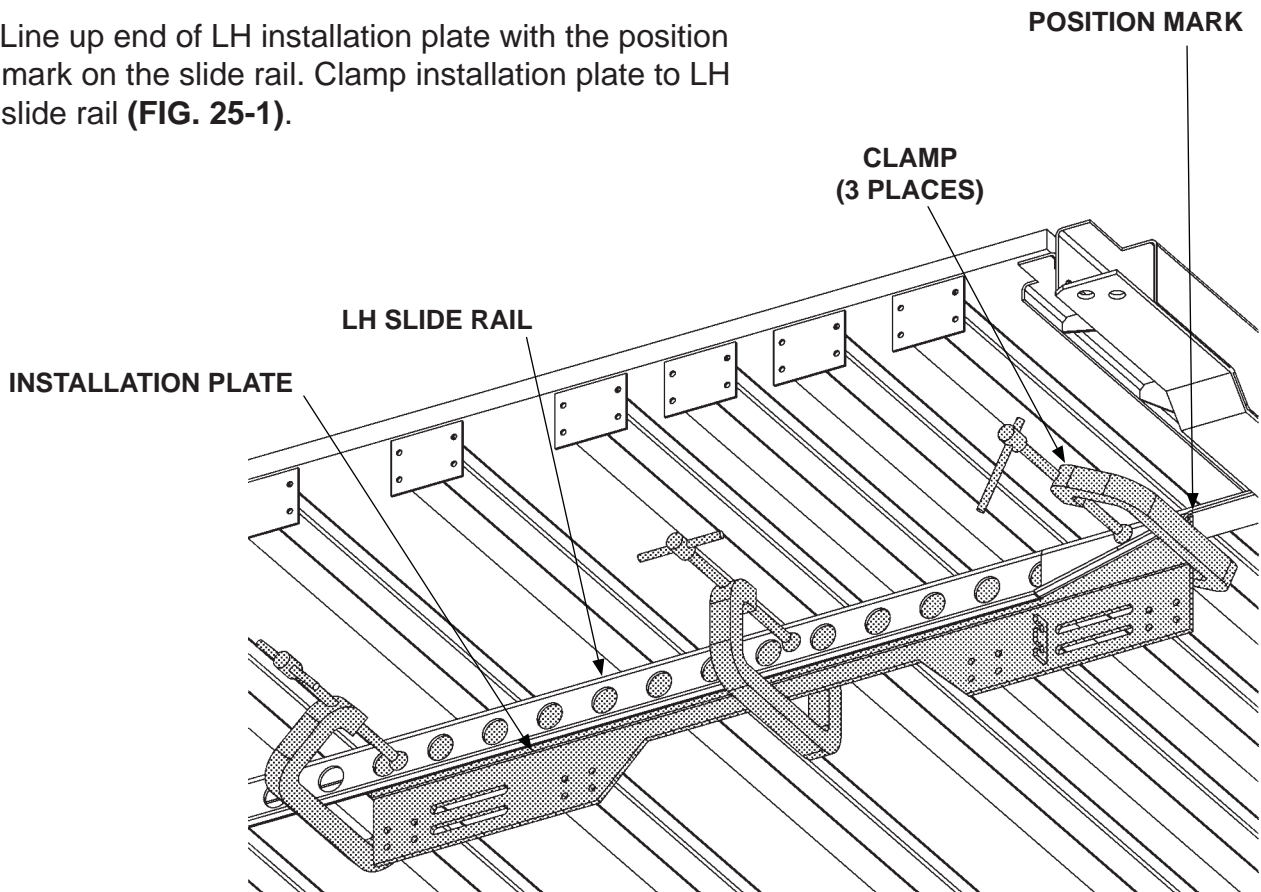
STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 2 - WELDING INSTALLATION PLATES TO TRAILER SLIDE RAIL USING 1/4" SPACERS - Continued

⚠ CAUTION

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

3. Line up end of LH installation plate with the position mark on the slide rail. Clamp installation plate to LH slide rail (**FIG. 25-1**).

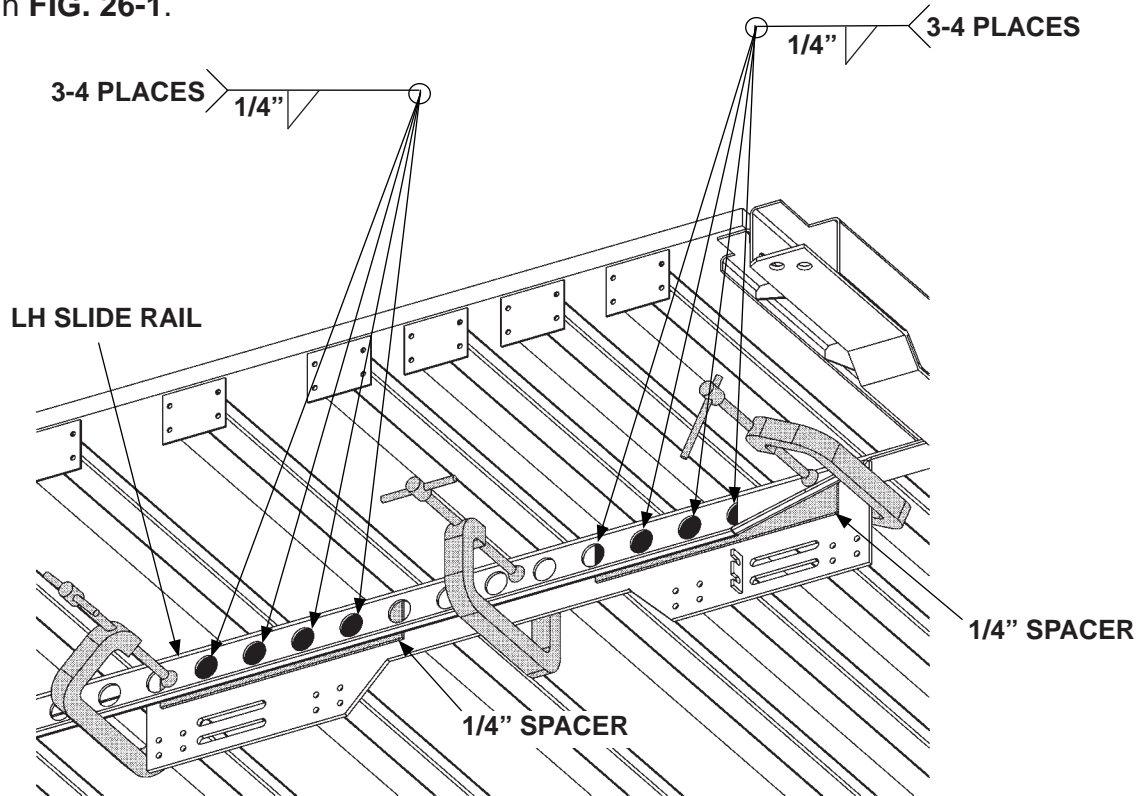


**CLAMPING INSTALLATION PLATE TO SLIDE RAIL
FIG. 25-1**

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 2 - WELDING INSTALLATION PLATES TO TRAILER SLIDE RAIL USING 1/4" SPACERS - Continued

4. Weld LH installation plate to slide rail as shown in **FIG. 26-1**.



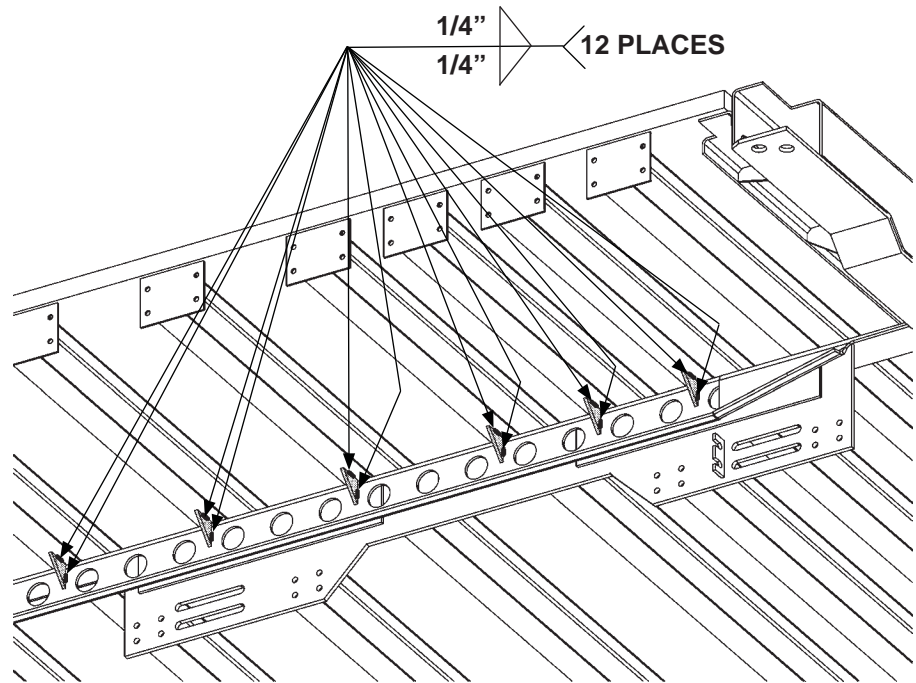
WELDING INSTALLATION PLATE AND SPACER TO SLIDE RAIL
FIG. 26-1

5. Remove clamps.

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 2 - WELDING INSTALLATION PLATES TO TRAILER SLIDE RAIL USING 1/4" SPACERS - Continued

6. Weld installation gussets (Kit items) to LH slide rail and crossmembers as shown in **FIG. 27-1**.



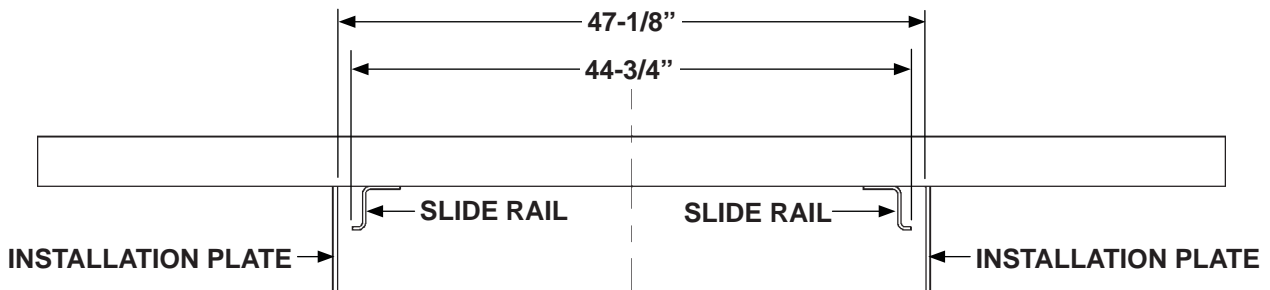
**WELDING INSTALLATION GUSSETS TO SLIDE RAIL
AND CROSSMEMBERS
FIG. 27-1**

7. Repeat instructions 1-6 for RH installation plate.

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

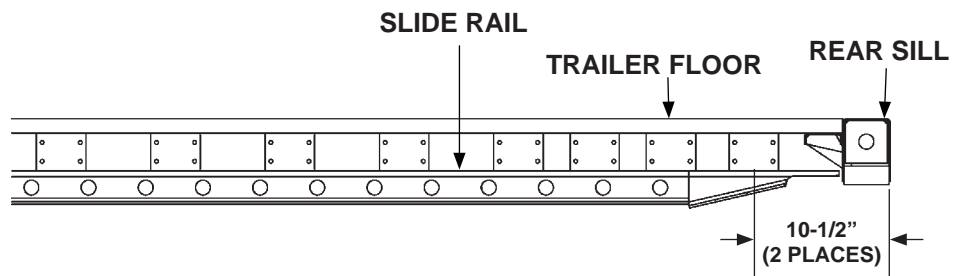
METHOD 3 - WELDING INSTALLATION PLATES TO TRAILER CROSSMEMBERS

NOTE: Method 3 instructions are intended for mounting installation plates (Kit items) on trailer crossmembers using supporting gussets and installation plates (Kit items). Reference **FIG. 28-1**.



INSTALLING INSTALLATION PLATES ON TRAILER CROSSMEMBERS
FIG. 28-1

1. Mark position for placement of installation plate on trailer crossmember as shown in **FIG. 28-2**.

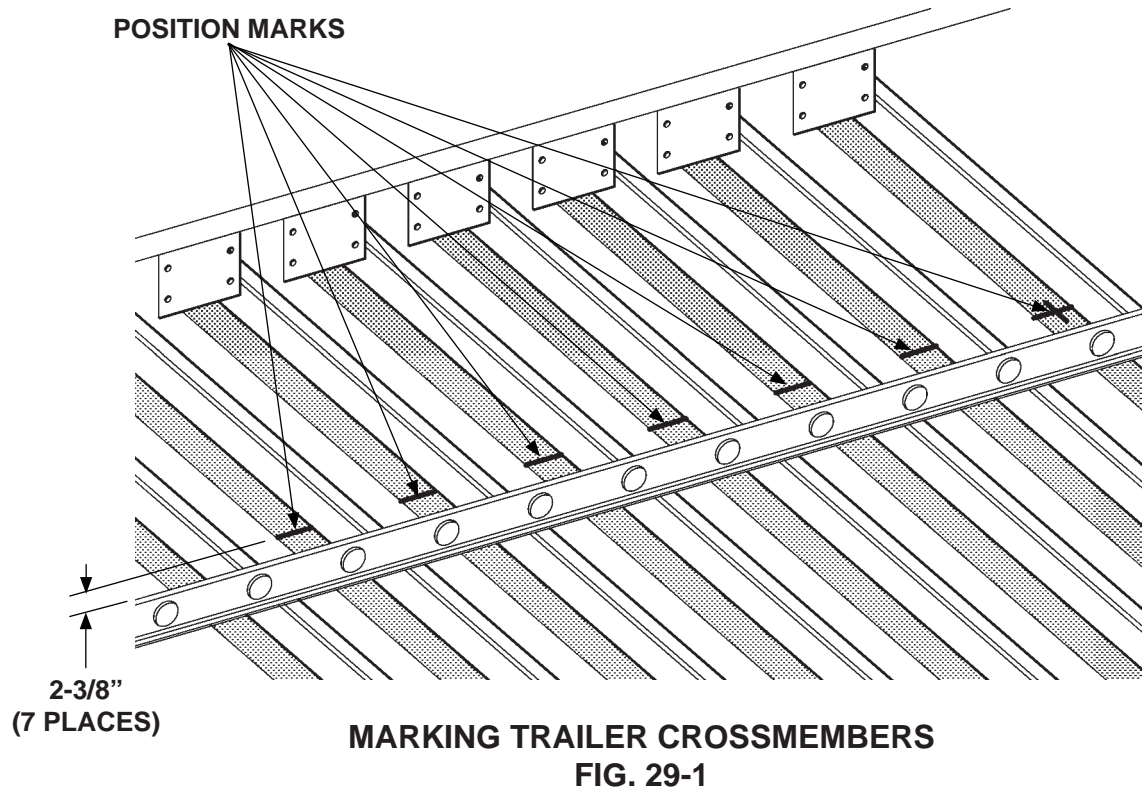


MARKING POSITION FOR INSTALLATION PLATES
FIG. 28-2

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 3 - WELDING INSTALLATION PLATES TO TRAILER CROSSMEMBERS - Continued

2. Mark trailer crossmembers as shown in **FIG. 29-1**.



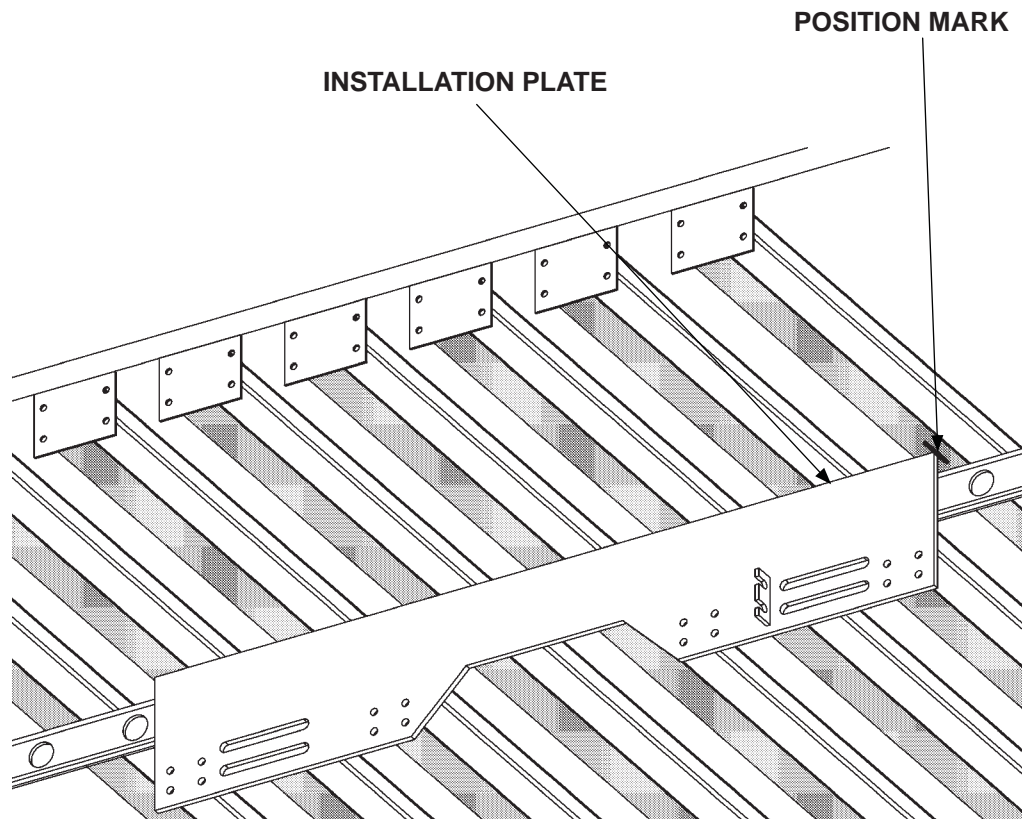
STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 3 - WELDING INSTALLATION PLATES TO TRAILER CROSSMEMBERS - Continued

⚠ CAUTION

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

3. Ensure end of LH installation plate is aligned with the first position mark on the crossmember (**FIG. 30-1**).

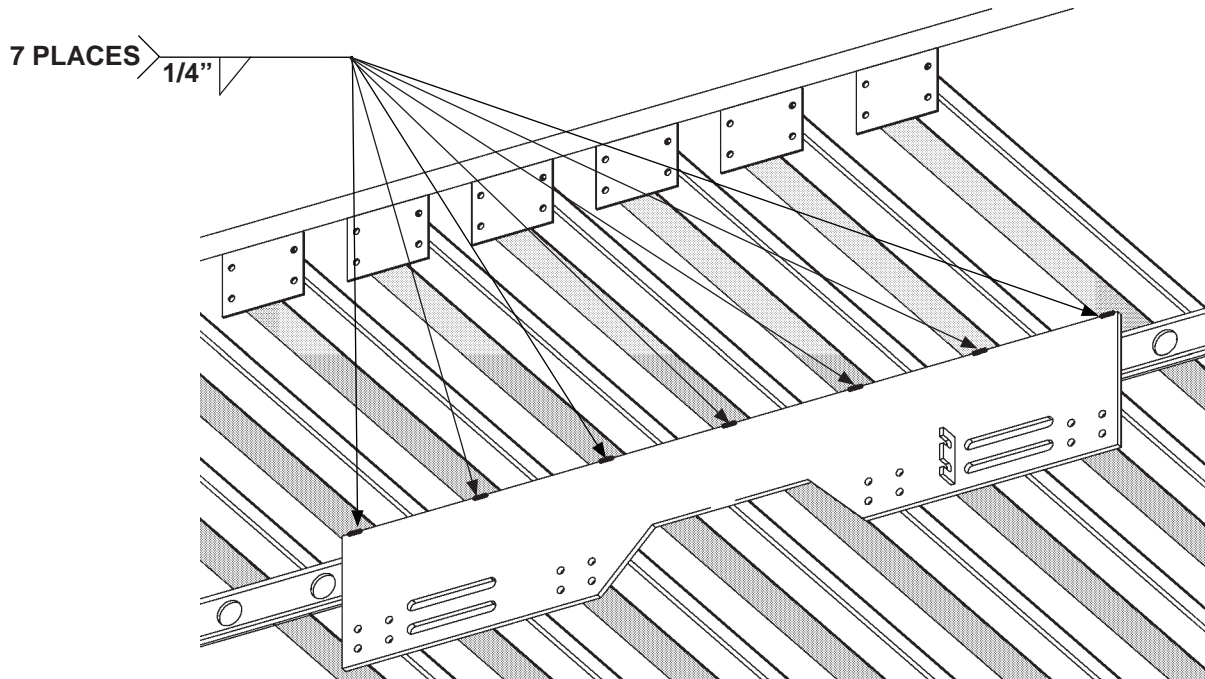


POSITIONING INSTALLATION PLATE TO CROSSMEMBERS
FIG. 30-1

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 3 - WELDING INSTALLATION PLATES TO TRAILER CROSSMEMBERS - Continued

4. Tack weld installation plate to crossmembers as shown in **FIG. 31-1**.

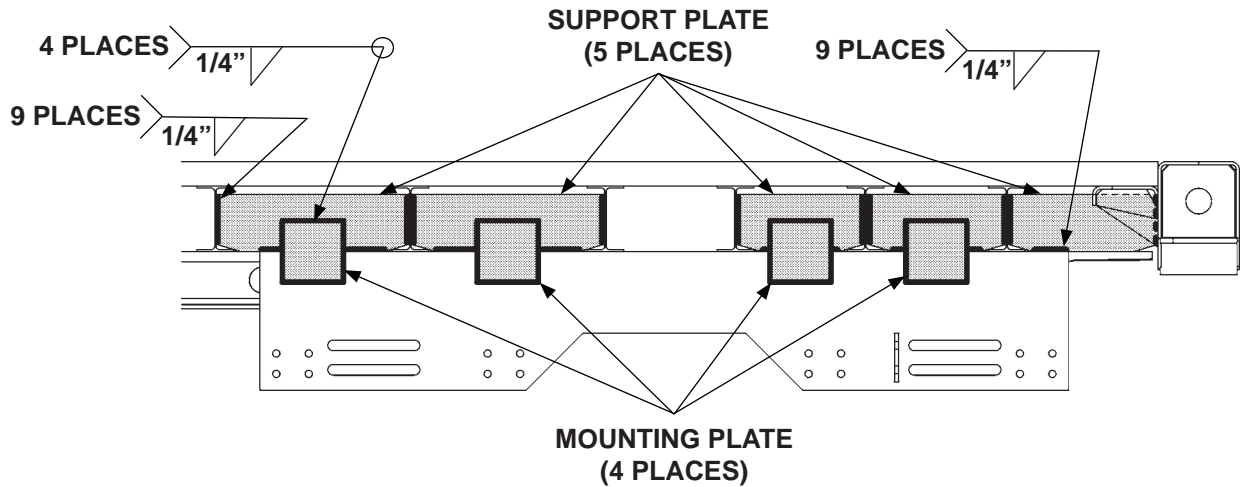


TACK WELDING INSTALLATION PLATE TO CROSSMEMBERS
FIG. 31-1

STEP 2 - WELD LIFTGATE ON VEHICLE- Continued

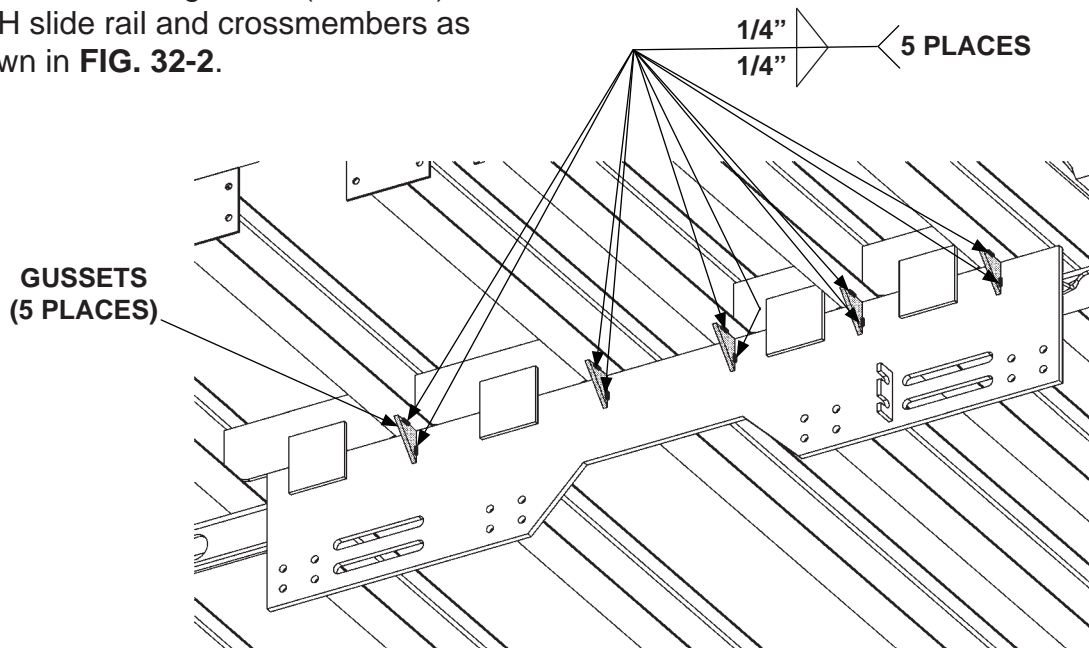
METHOD 3 - WELDING INSTALLATION PLATES TO TRAILER CROSSMEMBERS - Continued

5. Weld installation support plates and mounting gussets (Kit items) to LH slide rail and crossmembers as shown in **FIG. 32-1**.



WELDING INSTALLATION PLATE TO CROSSMEMBERS
FIG. 32-1

6. Weld installation gussets (Kit items) to LH slide rail and crossmembers as shown in **FIG. 32-2**.



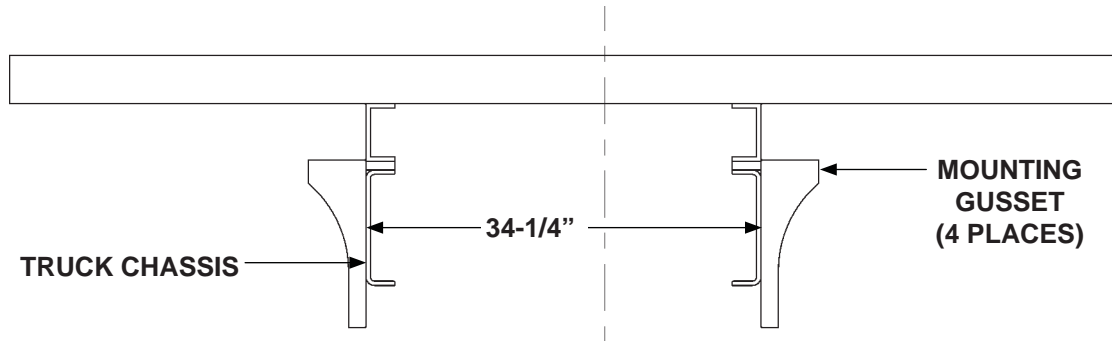
WELDING INSTALLATION GUSSETS TO INSTALLATION PLATE AND CROSSMEMBERS
FIG. 32-2

7. Repeat instructions 1-6 for RH installation plate.

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

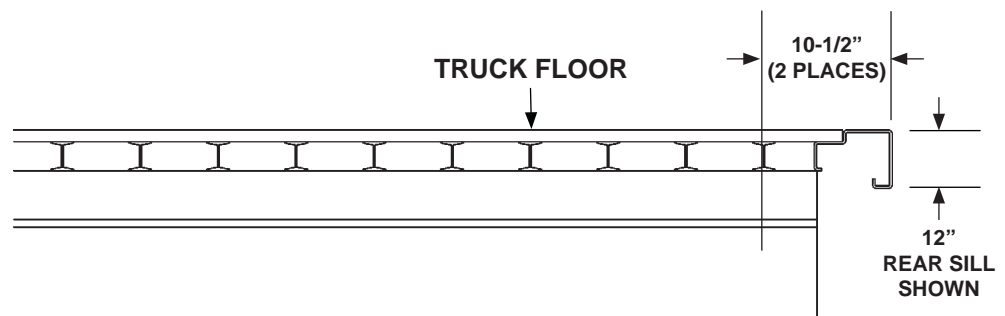
METHOD 4 - WELDING INSTALLATION PLATES TO TRUCK CHASSIS

NOTE: Method 4 instructions are intended for mounting installation plates (Kit items) on truck chassis. Reference **FIG. 33-1**.



INSTALLING INSTALLATION PLATES TO TRUCK CHASSIS
FIG. 33-1

1. Mark position for placement of installation plate on truck chassis as shown in **FIG. 33-2**.

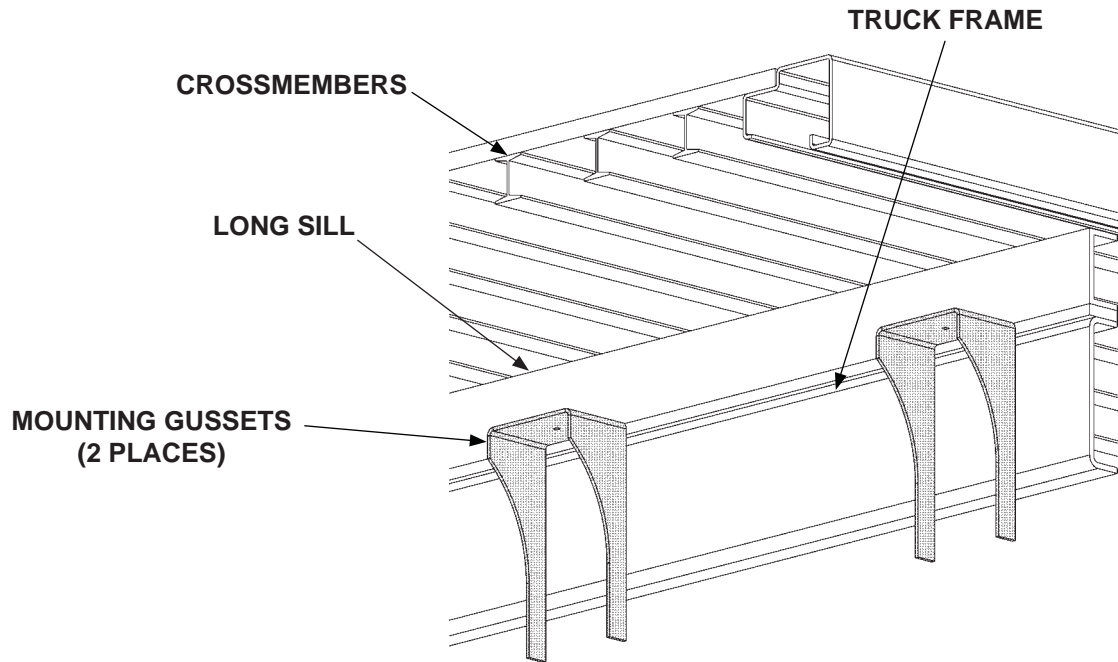


MARKING POSITION FOR INSTALLATION PLATES
FIG. 33-2

STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

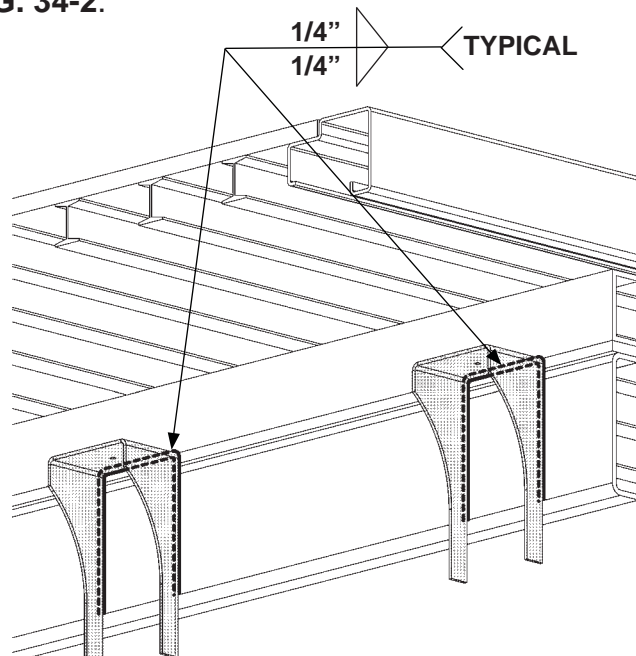
METHOD 4 - WELDING INSTALLATION PLATES TO TRUCK CHASSIS - Continued

2. Ensure liftgate mounting gussets aligned with marks from previous instruction (**FIG. 34-1**).



ALIGNING MOUNTING GUSSETS
FIG. 34-1

3. Weld installation gussets as shown in **FIG. 34-2**.

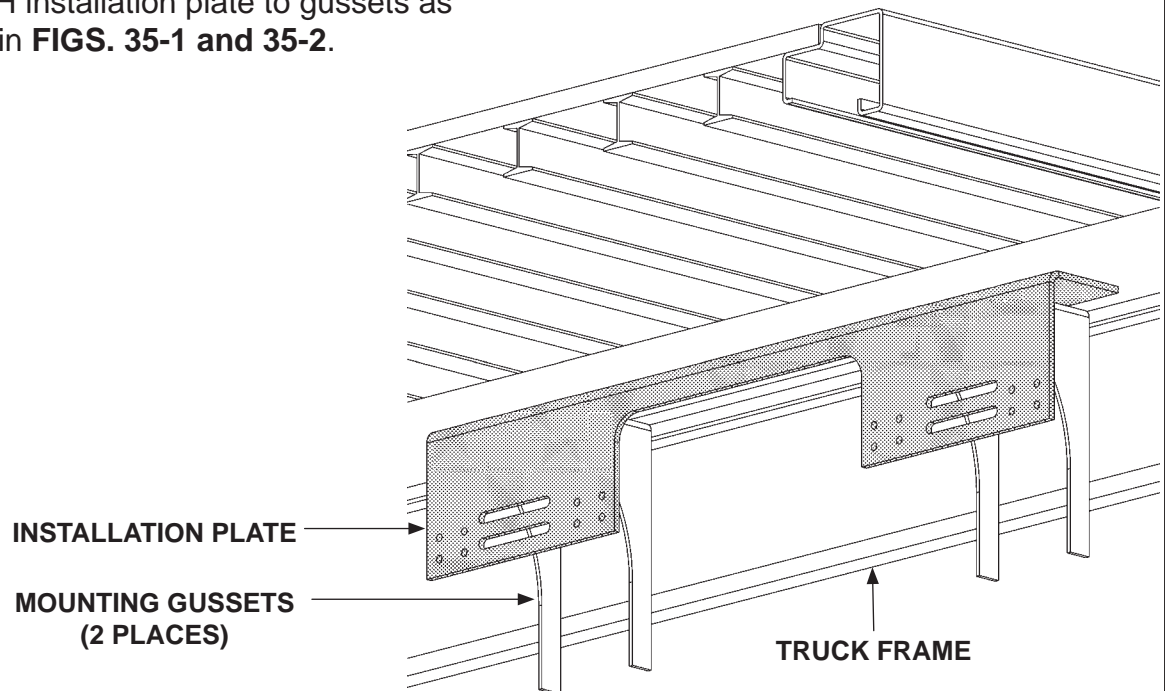


WELDING MOUNTING GUSSETS
FIG. 34-2

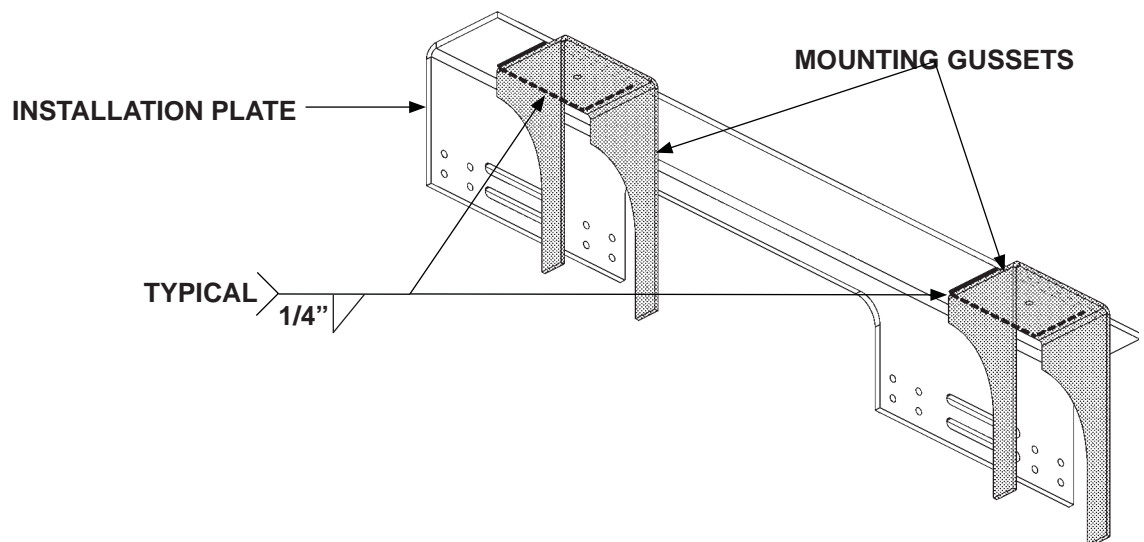
STEP 2 - WELD LIFTGATE ON VEHICLE - Continued

METHOD 4 - WELDING INSTALLATION PLATES TO TRUCK CHASSIS - Continued

4. Weld LH installation plate to gussets as shown in **FIGS. 35-1 and 35-2**.



INSTALLATION PLATES
FIG. 35-1



WELDING INSTALLATION PLATES
FIG. 35-2

5. Repeat instructions 1- 4 for RH installation plate.

STEP 3 - ATTACH CONTROL SWITCHES

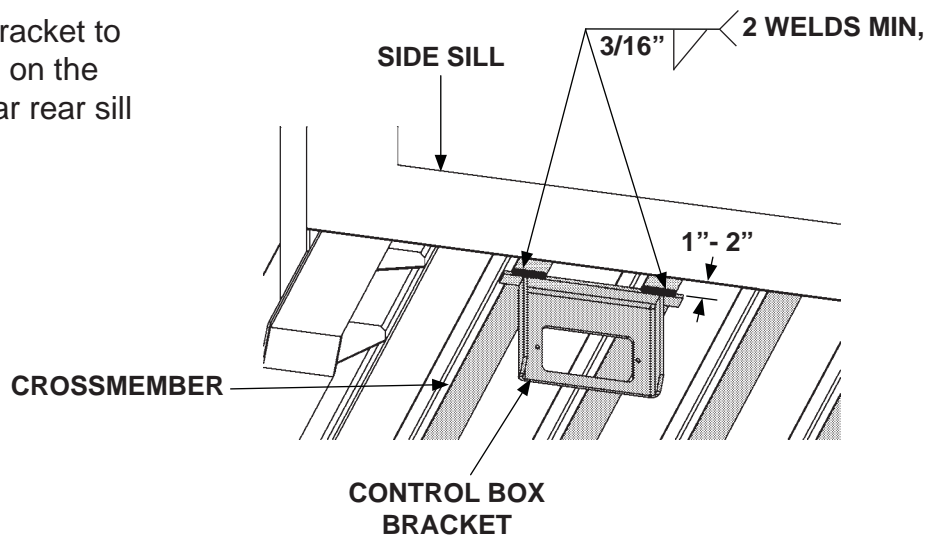
CAUTION

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

CAUTION

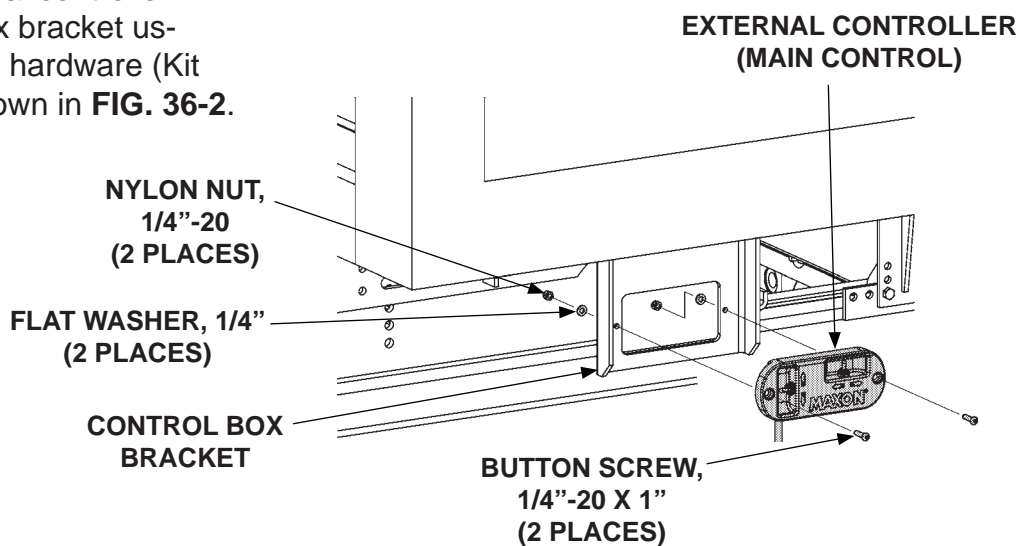
To protect the original paint system, a 3" wide area of paint must be removed from bracket on all sides of the weld area before welding.

1. Weld the control box bracket to vehicle crossmembers on the RH side (curbside) near rear sill of vehicle (**FIG. 36-1**).



**WELDING BRACKET TO CROSSMEMBERS
(JOYSTICK EXTERNAL CONTROLLER)
FIG. 36-1**

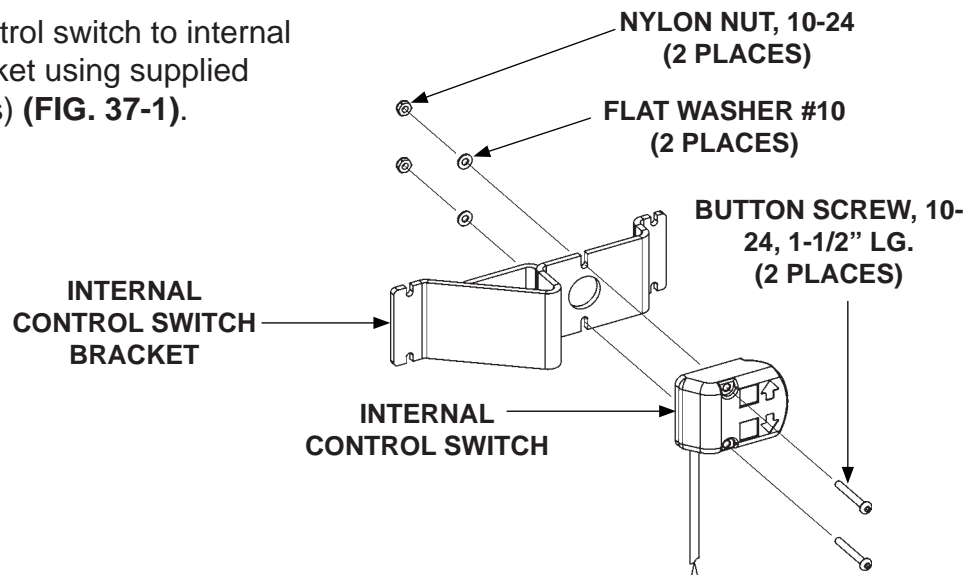
2. Attach external controller to control box bracket using mounting hardware (Kit items) as shown in **FIG. 36-2**.



**WELDING BRACKET TO CROSSMEMBERS
(EXTERNAL CONTROLLER)
FIG. 36-2**

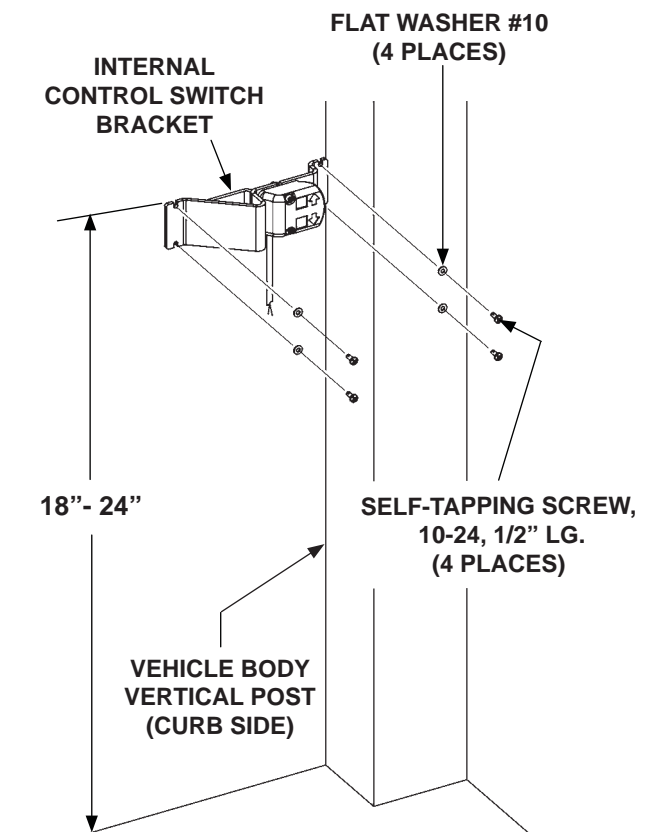
STEP 3 - ATTACH CONTROL SWITCHES - Continued

3. Attach internal control switch to internal control switch bracket using supplied hardware (Kit items) (**FIG. 37-1**).



BOLTING INTERNAL CONTROL SWITCH TO BRACKET
FIG. 37-1

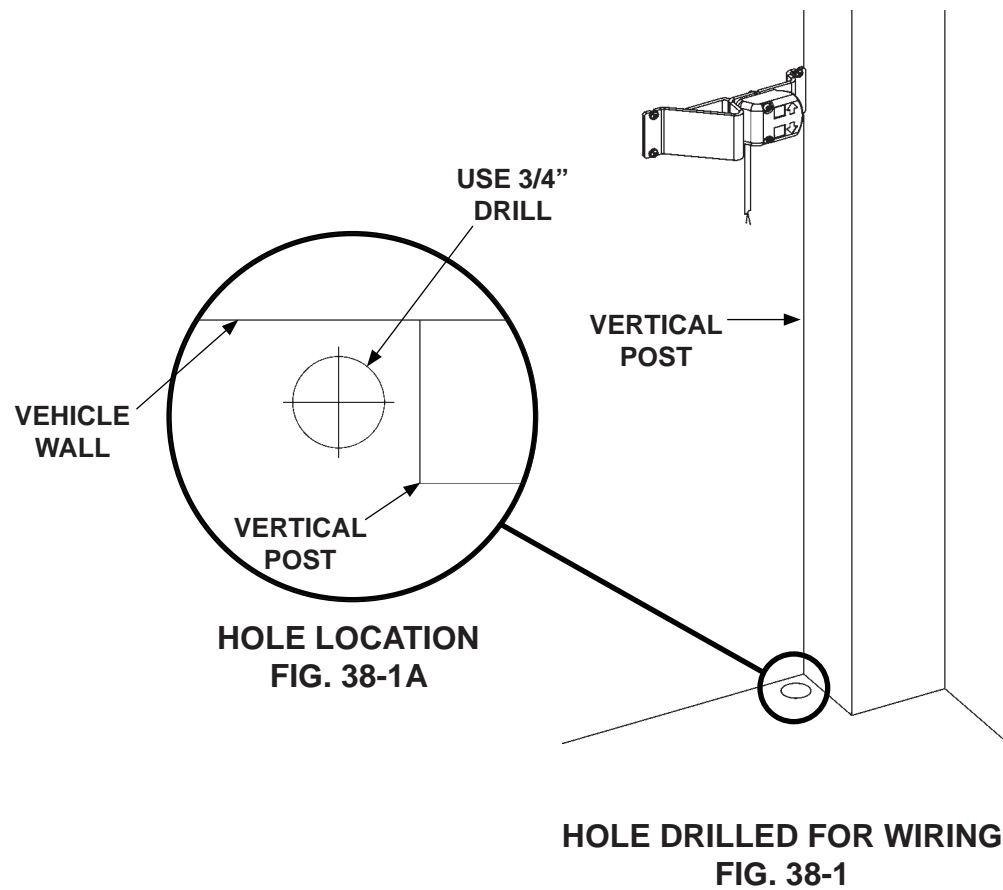
4. Use internal control switch bracket to mark and drill 4 holes for mounting next to vertical post (curb side). Bolt internal control bracket to vehicle body with self-tapping screws (**FIG. 37-2**).



BOLTING INTERNAL SWITCH BRACKET TO VEHICLE BODY
FIG. 37-2

STEP 3 - ATTACH CONTROL SWITCHES - Continued

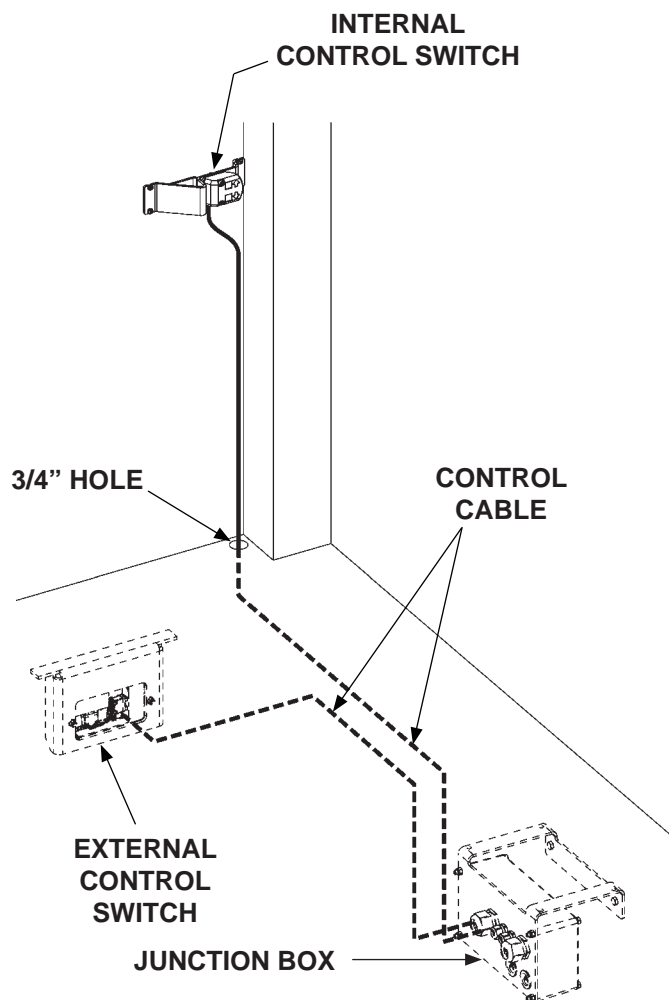
5. Drill 3/4" hole through vehicle floor as shown in **FIGS. 38-1 and 38-1A**.



STEP 3 - ATTACH CONTROL SWITCHES - Continued

6. Run control cable from junction box, under vehicle body (see dashed line, **(FIG. 39-1)**), and up through vehicle floor. Pull control cable through 3/4" hole **(FIG. 39-1)**.

7. Run the internal control switch cable to the junction box **(FIG. 39-1)**.

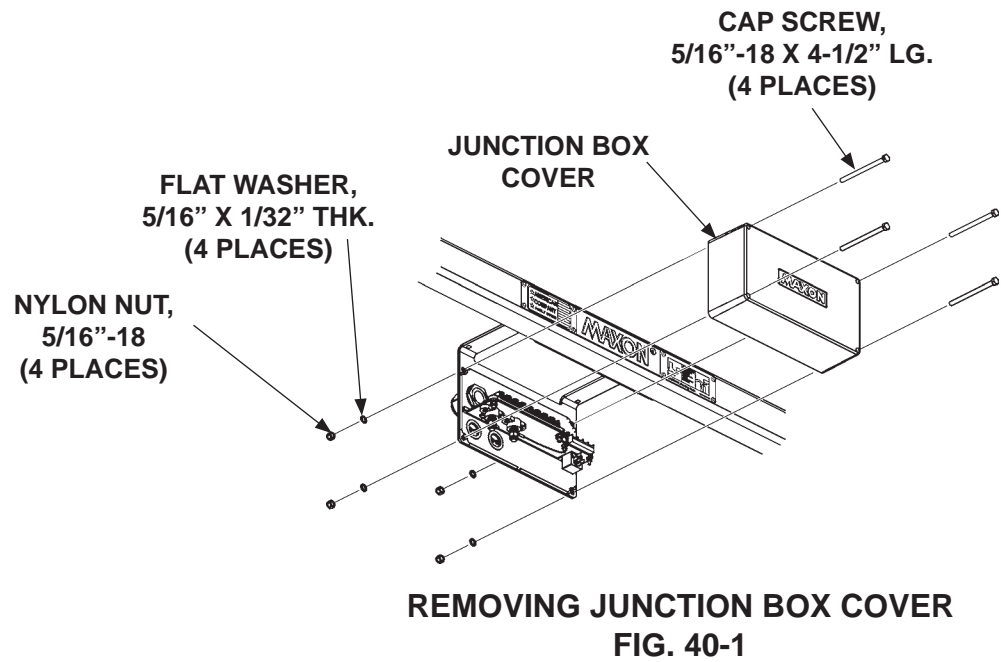


ROUTING CONTROL SWITCH CABLES
FIG. 39-1

8. Run the external control switch cable to the junction box **(FIG. 39-1)**.

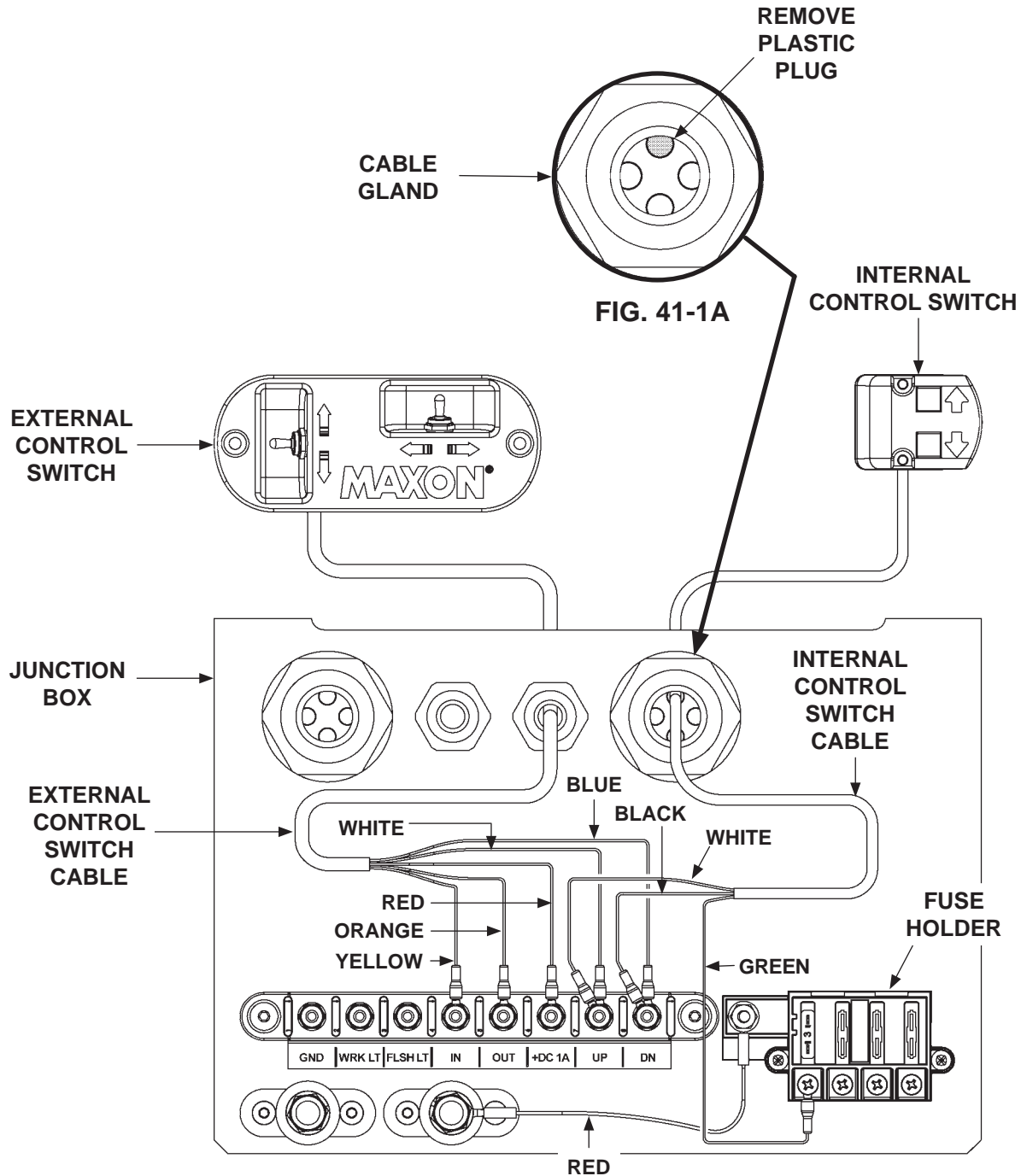
STEP 3 - ATTACH CONTROL SWITCHES - Continued

9. Remove junction box cover as shown in **FIG. 40-1**.



STEP 3 - ATTACH CONTROL SWITCHES - Continued

10. Knock out plastic plug from the cable gland as shown in **FIG. 41-1A**. Next, connect switches (Kit items) to junction box as shown in **FIG. 41-1**.

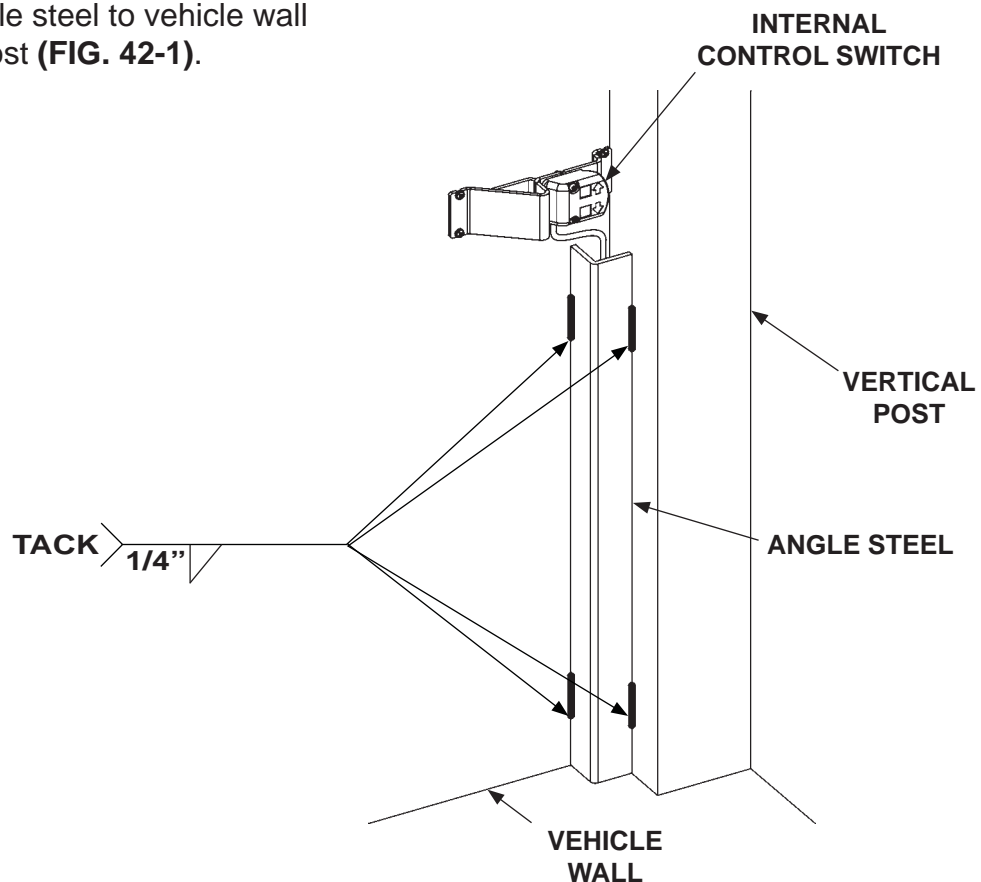


ELECTRICAL HARNESS CONNECTIONS AT JUNCTION BOX
FIG. 41-1

STEP 3 - ATTACH CONTROL SWITCHES - 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.

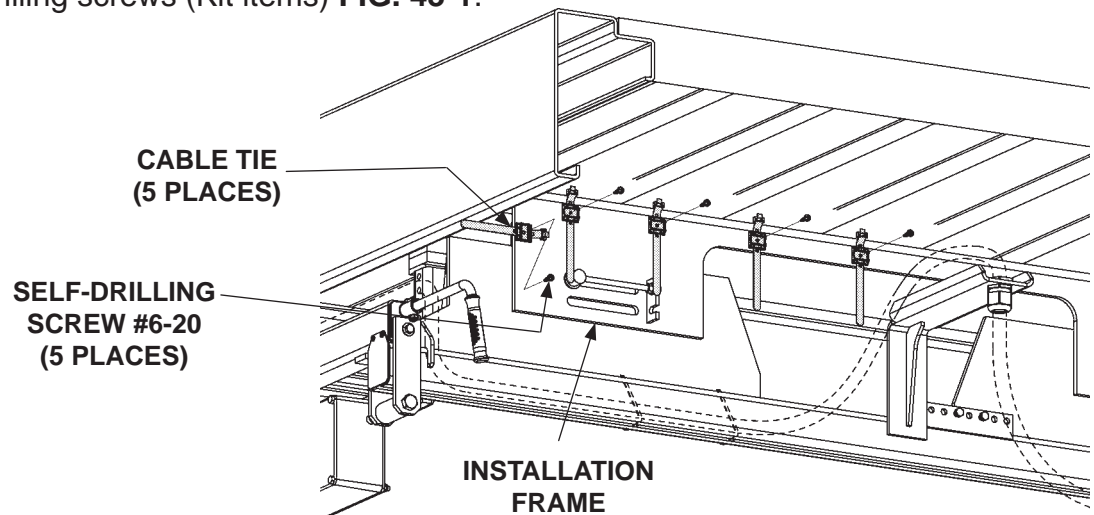
11. Tack weld angle steel to vehicle wall and vehicle post (**FIG. 42-1**).



**WELDING ANGLE STEEL
FIG. 42-1**

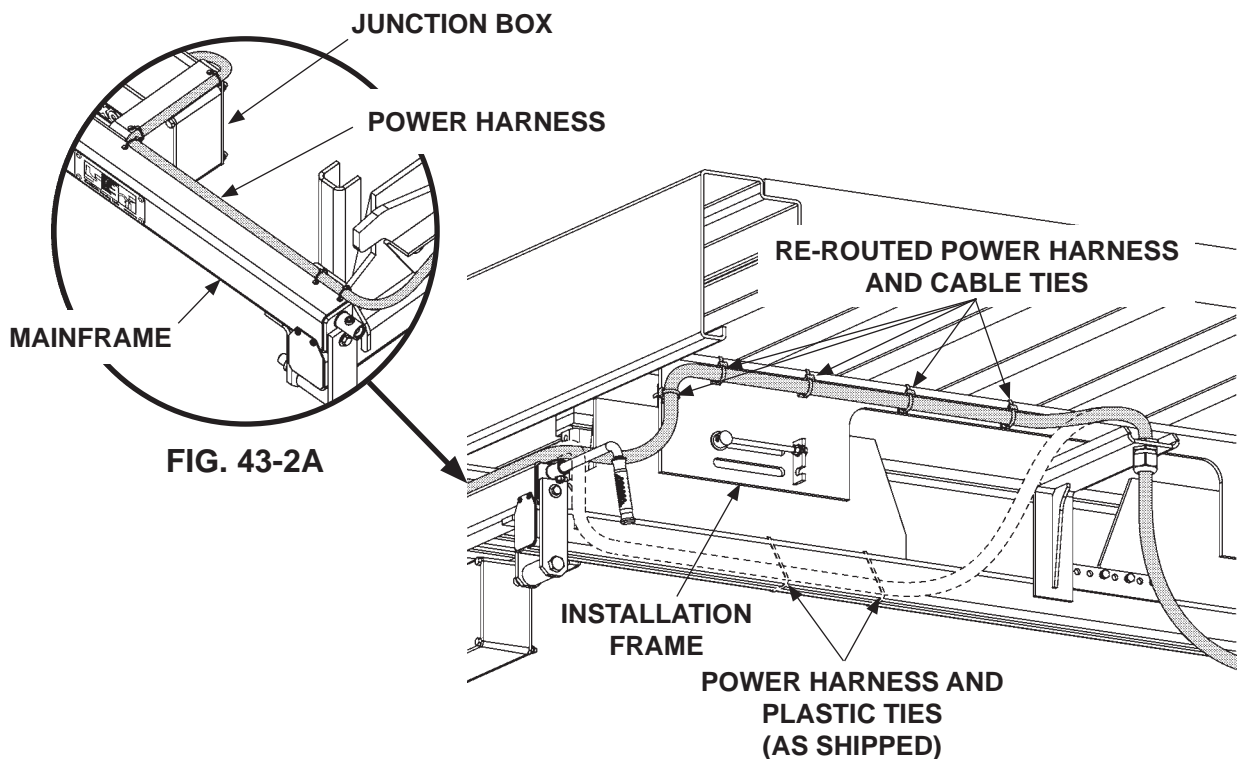
STEP 4 - CONNECT POWER HARNESS TO JUNCTION BOX

1. Attach cable ties (Kit items) to installation plate using self-drilling screws (Kit items) **FIG. 43-1**.



ATTACHING CABLE TIES TO INSTALLATION PLATE (TRUCK)
FIG. 43-1

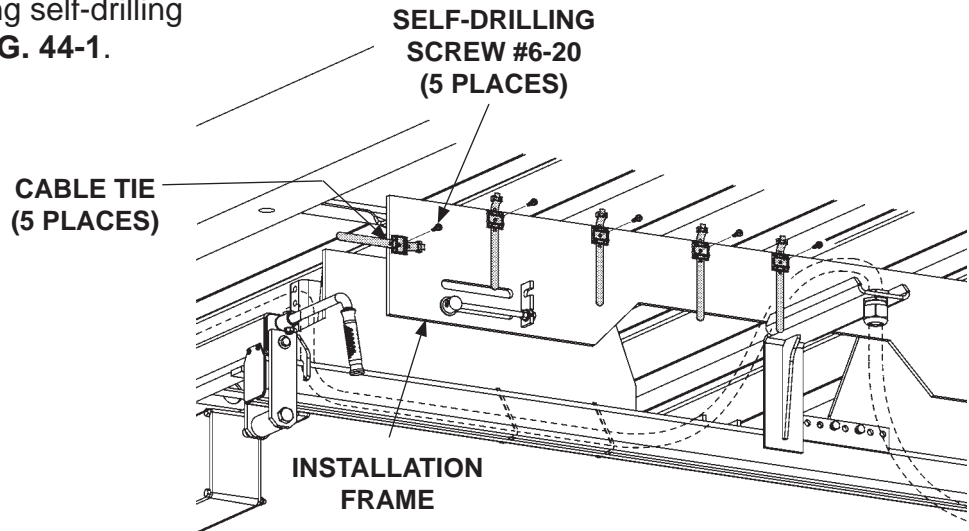
2. Cut plastic ties securing power harness to liftgate frame (2 places) **FIG. 43-2**. Next, route power harness to junction box. Attach harness to mounting frame using cable ties (Kit items) (**FIGS. 43-2 and 43-2A**).



RE-ROUTING POWER HARNESS (TRUCK)
FIG. 43-2

STEP 4 - CONNECT POWER HARNESS TO JUNCTION BOX- Continued

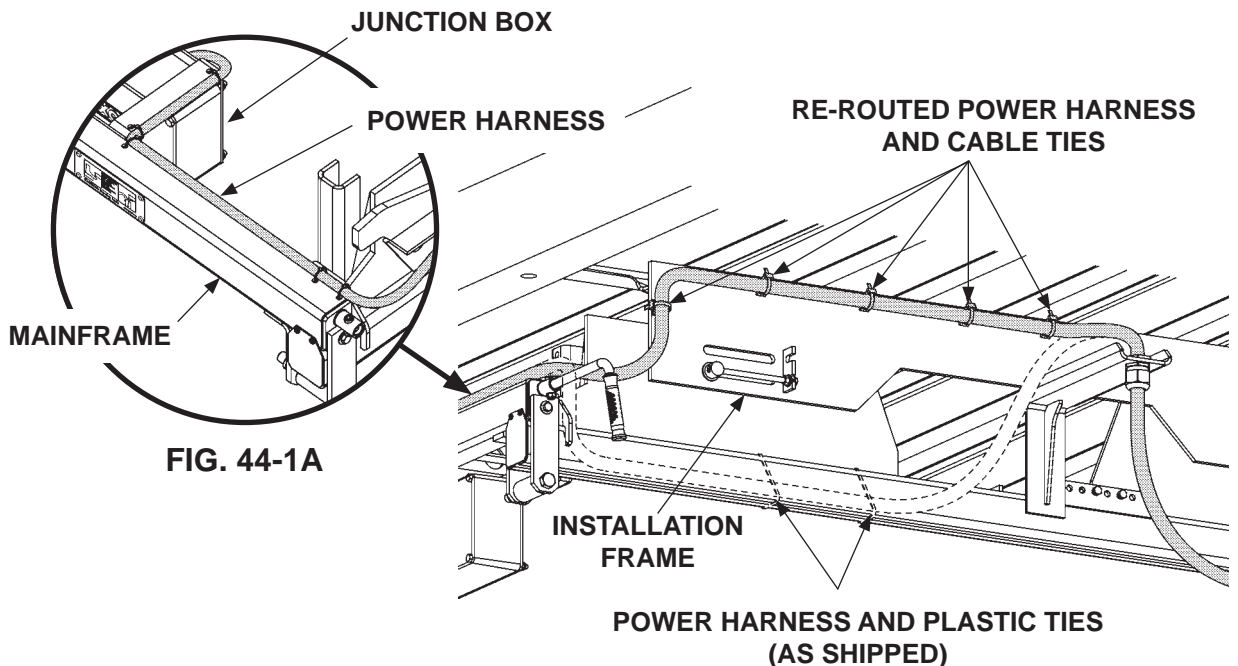
3. Attach cable ties (Kit items) to installation plate using self-drilling screws (Kit items) **FIG. 44-1**.



**ATTACHING CABLE TIES TO
INSTALLATION PLATE (TRAILER)**

FIG. 44-1

4. Cut plastic ties securing power harness to lift-gate frame (2 places) **FIG. 44-2**. Next, route power harness to junction box. Attach harness to mounting frame using cable ties (Kit items) **FIGS. 44-2 and 44-2A**.

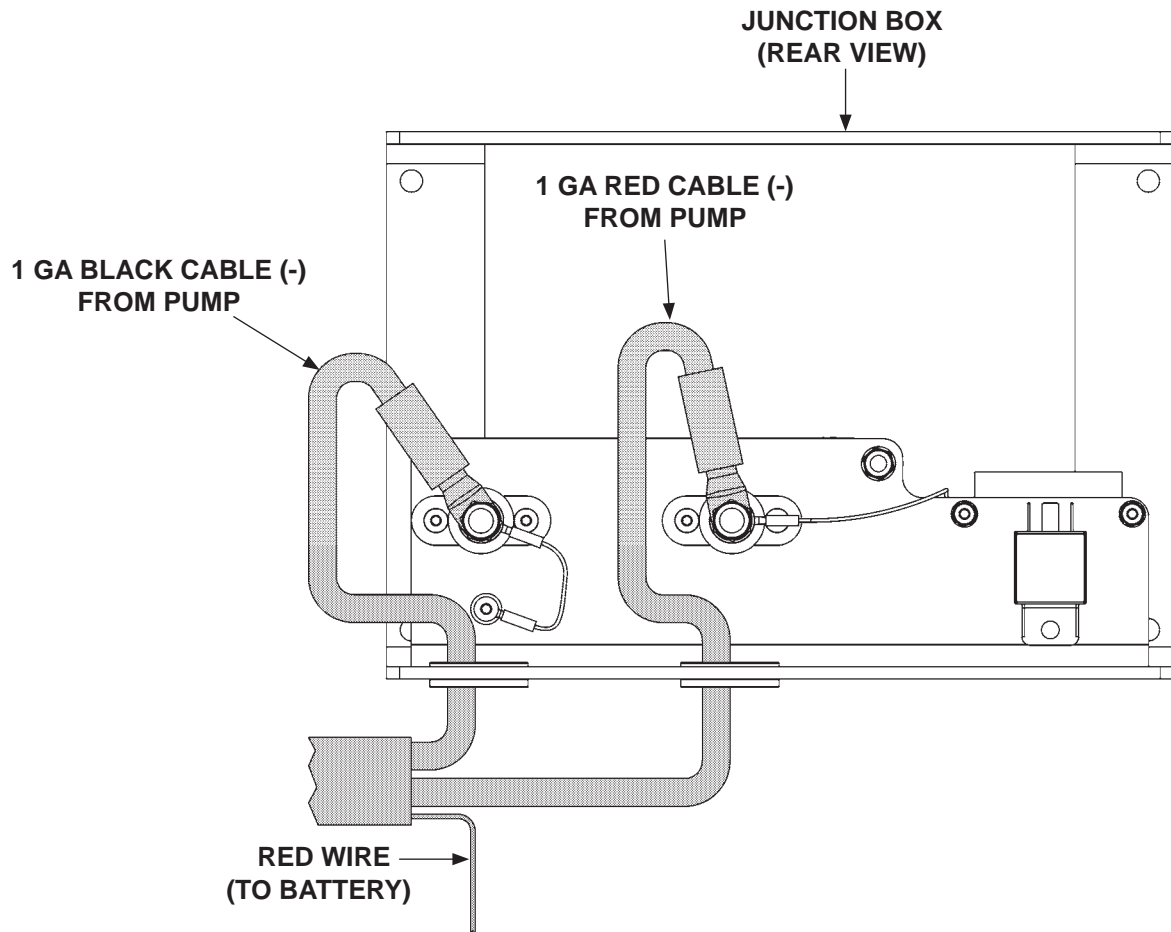


RE-ROUTING POWER HARNESS (TRAILER)

FIG. 44-2

STEP 4 - CONNECT POWER HARNESS TO JUNCTION BOX- Continued

5. Connect power (+) and ground (-) cables from pump box to junction box as shown in **FIG. 45-1**.



**CONNECTING POWER & GROUND FROM PUMP BOX
AT JUNCTION BOX
FIG. 45-1**

STEP 5 - RUN POWER CABLE

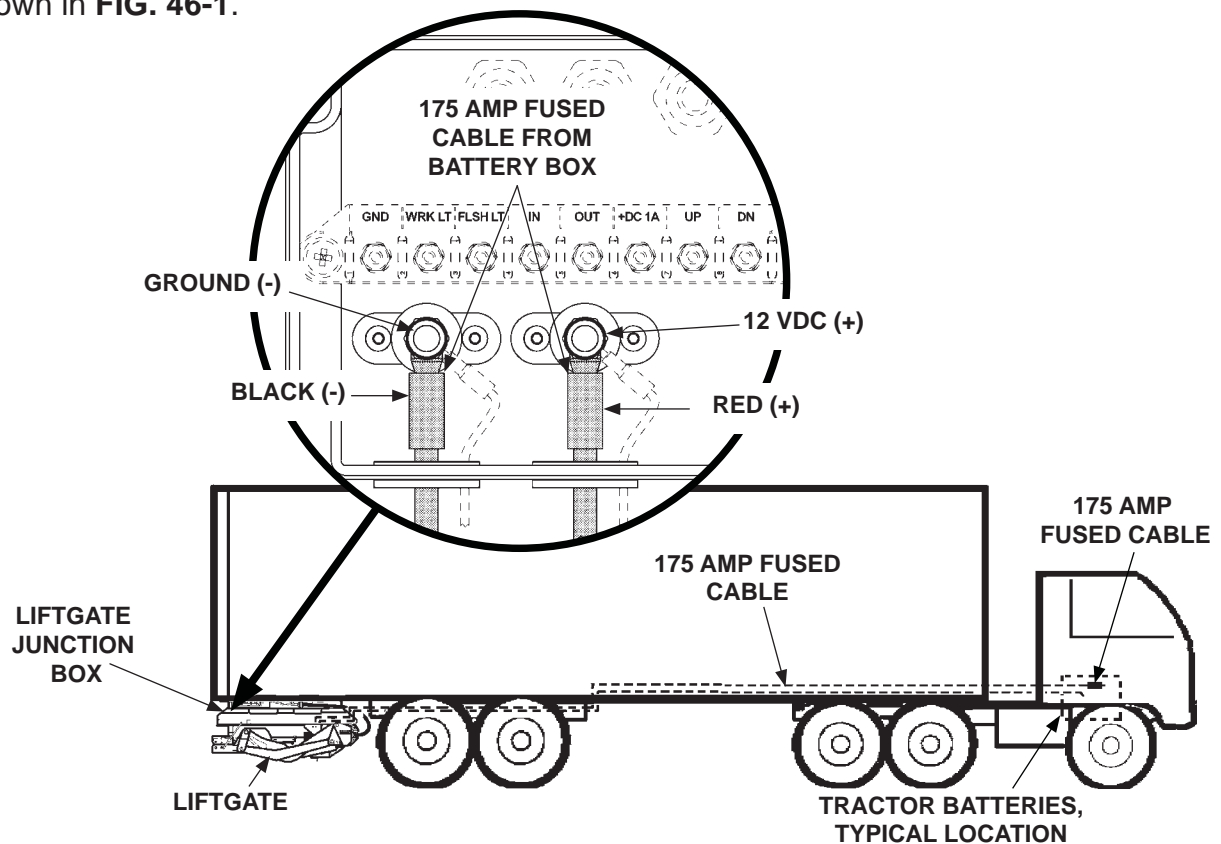
⚠ CAUTION

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. 46-1**.



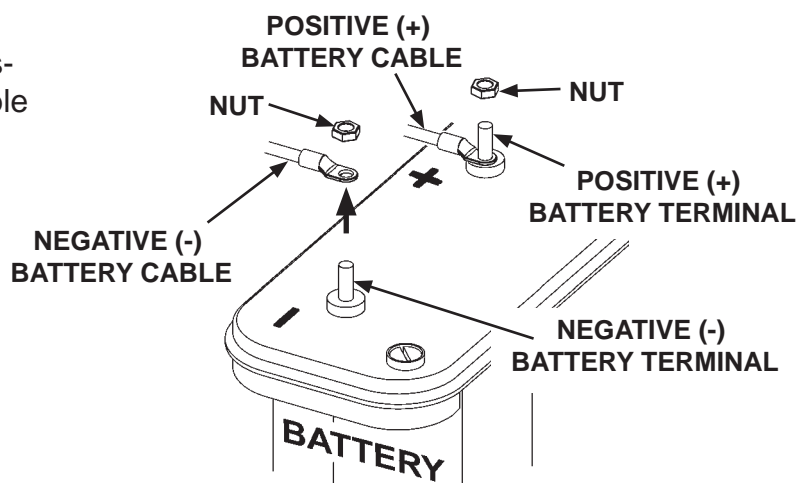
RECOMMENDED LIFTGATE & OPTIONAL BATTERY BOX
INSTALLATION ON TRAILER

FIG. 46-1

2. Position fuse-end of red (+) cable with fuse nearest the tractor batteries, as shown in **FIG. 46-1**. Run black (-) cable from tractor batteries, as shown in **FIG. 46-1**. Keep enough cable near batteries to reach the positive (+) and (-) terminals without straining cables (after connection). Connect cables from battery to junction box. Secure power cable to vehicle chassis.

STEP 5 - RUN POWER CABLE - Continued

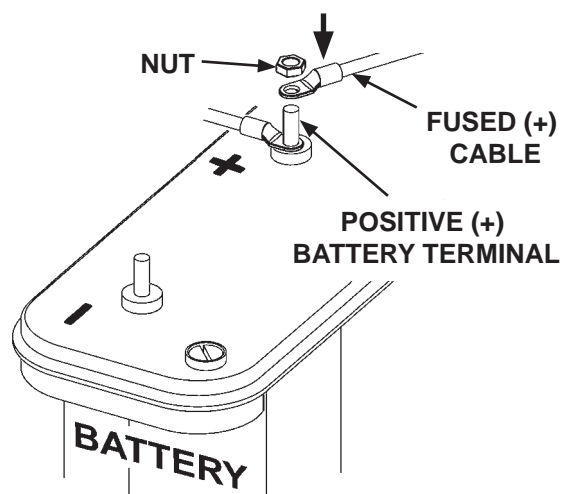
3. Remove nut from negative (-) battery terminal (**FIG. 47-1**). Disconnect negative (-) battery cable (**FIG. 47-1**).



DISCONNECTING (-) BATTERY CABLE
FIG. 47-1

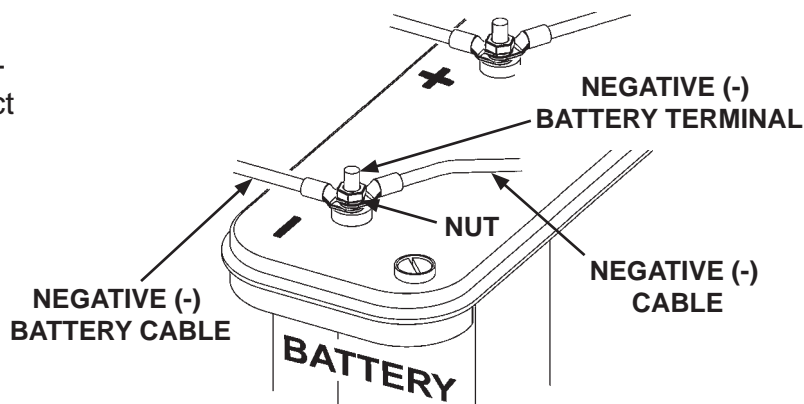
4. Remove nut from positive (+) battery terminal (**FIG. 47-1**).

5. Connect fused positive (+) cable to positive (+) battery terminal (**FIG. 47-2**). Then, reinstall nut on positive (+) battery terminal (**FIG. 47-2**).



CONNECTING FUSED (+) CABLE
FIG. 47-2

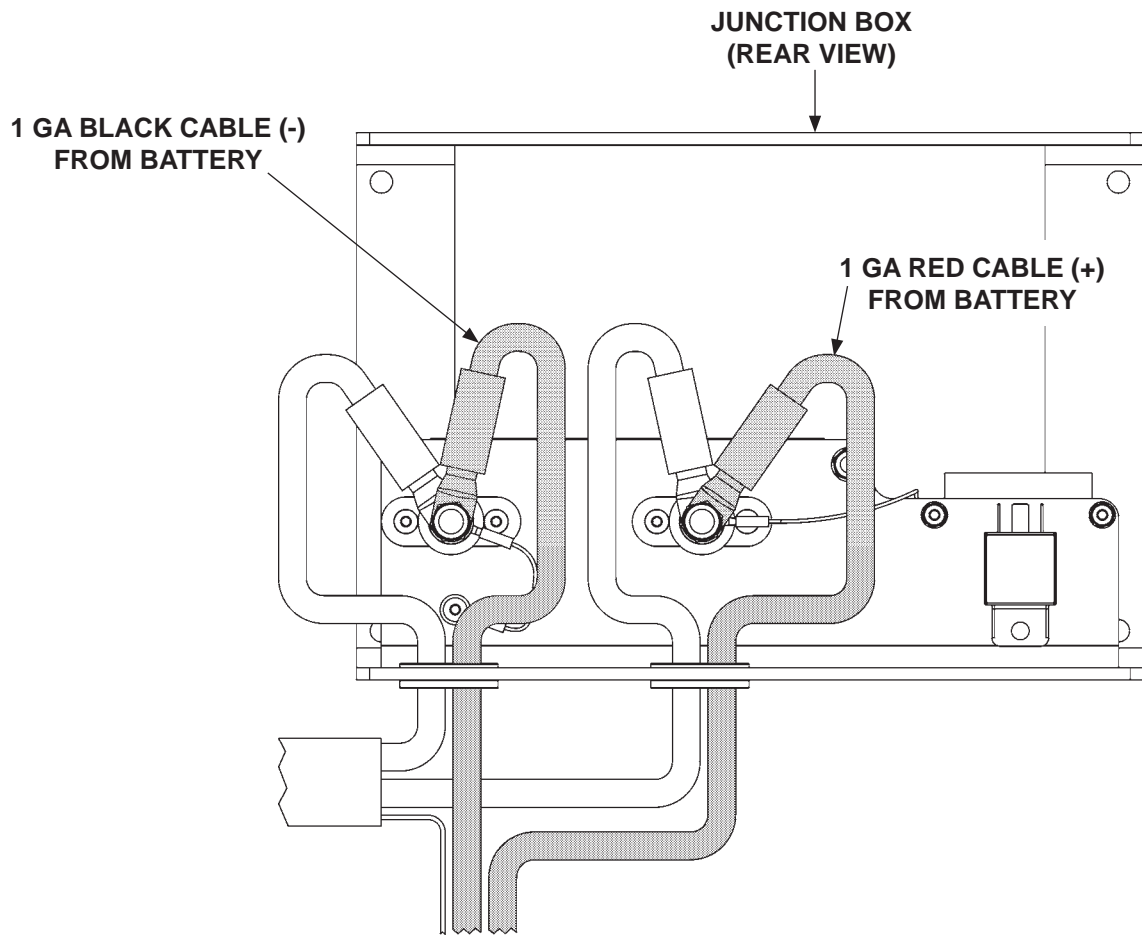
6. Reconnect negative (-) battery cable to negative (-) battery terminal (**FIG. 47-3**). Next, connect negative (-) cable to negative (-) battery terminal (**FIG. 47-3**). Then, reinstall nut on negative (-) battery terminal (**FIG. 47-3**).



RECONNECTED BATTERY CABLES
FIG. 47-3

STEP 6 - CONNECTING POWER

1. Connect power (+) and ground (-) cables from battery to junction box as shown in **FIG. 48-1**.



**CONNECTING BATTERY POWER & GROUND AT
JUNCTION BOX
FIG. 48-1**

STEP 7 - PLATFORM ADJUSTMENT

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

1. Lower platform to ground and unfold flipover (**FIG. 49-1A**).
2. Loosen adjustment bolt jam nut and locking nut on both sides of platform (**FIG. 49-1B**).
3. To adjust platform level with ground, turn adjustment bolts counterclockwise to tilt the tip of platform up (**FIG. 49-2**), or turn clockwise to tilt down (**FIG. 49-3**).
4. Once platform is adjusted, tighten adjustment bolt jam nut and locking nut securely on both sides of platform (**FIG. 49-1B**). Torque jam nut **100 lb-ft**.

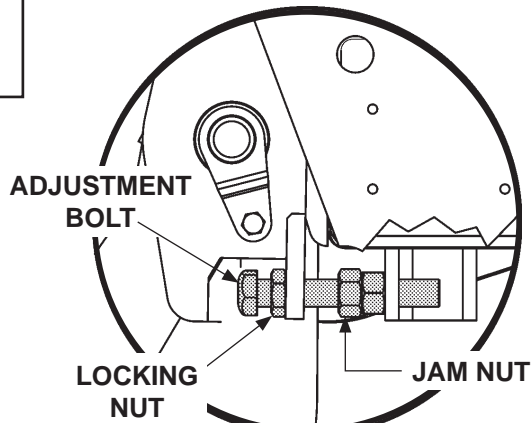
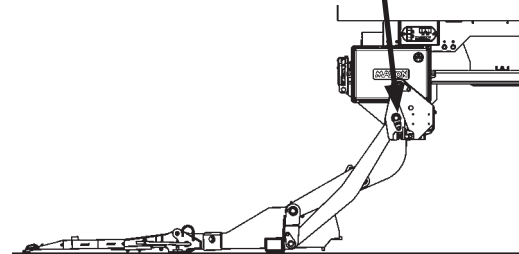
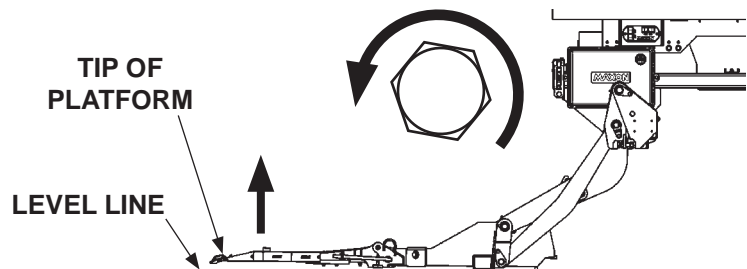


FIG. 49-1B



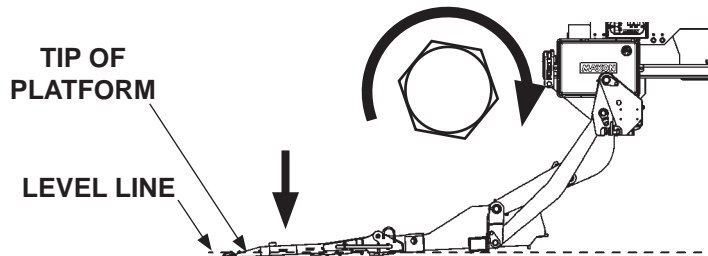
**PLATFORM LOWERED TO GROUND
(RH SIDE SHOWN)**

FIG. 49-1A



RAISE TIP OF PLATFORM

FIG. 49-2



LOWER TIP OF PLATFORM

FIG. 49-3

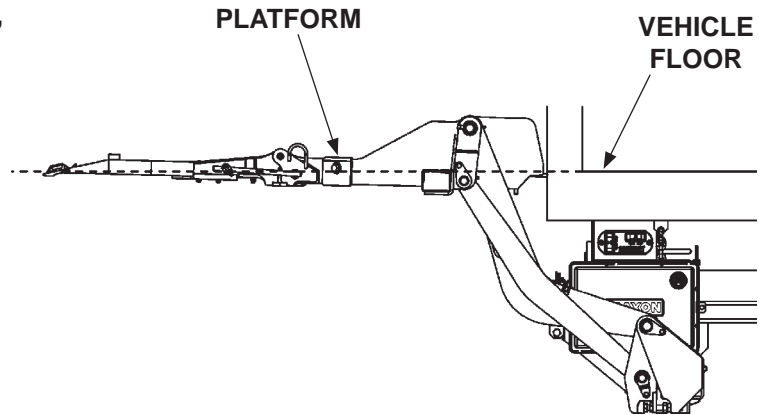
STEP 7 - PLATFORM ADJUSTMENT- Continued

CAUTION

Operate Liftgate with caution and no load until installation is complete.

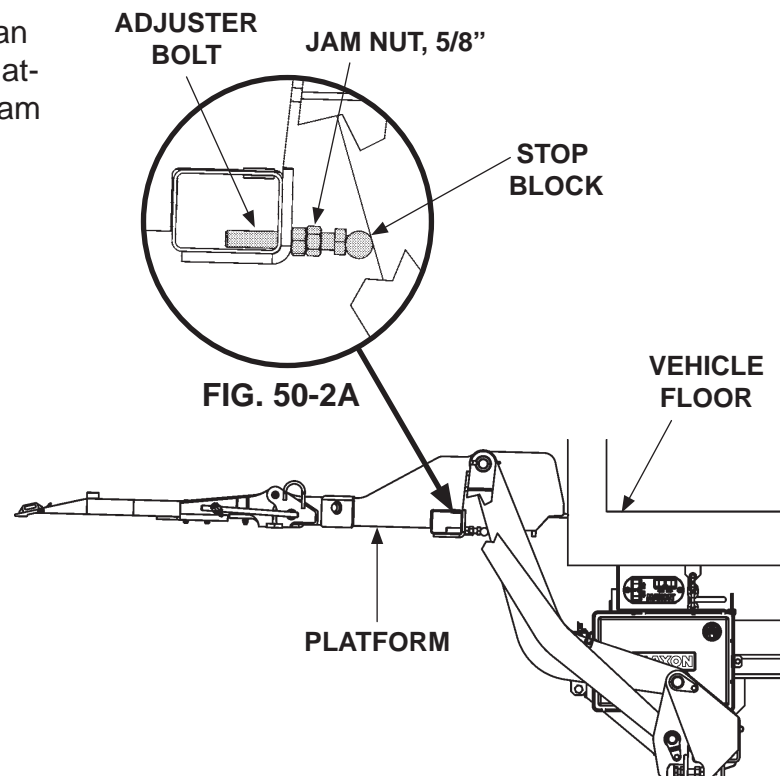
NOTE: Refer to **Operating Instructions** decal and applicable **WARNING & CAUTION** decals.

5. To adjust platform at bed height, raise platform to vehicle floor height (**FIG. 50-1**).



PLATFORM RAISED TO VEHICLE FLOOR
FIG. 50-1

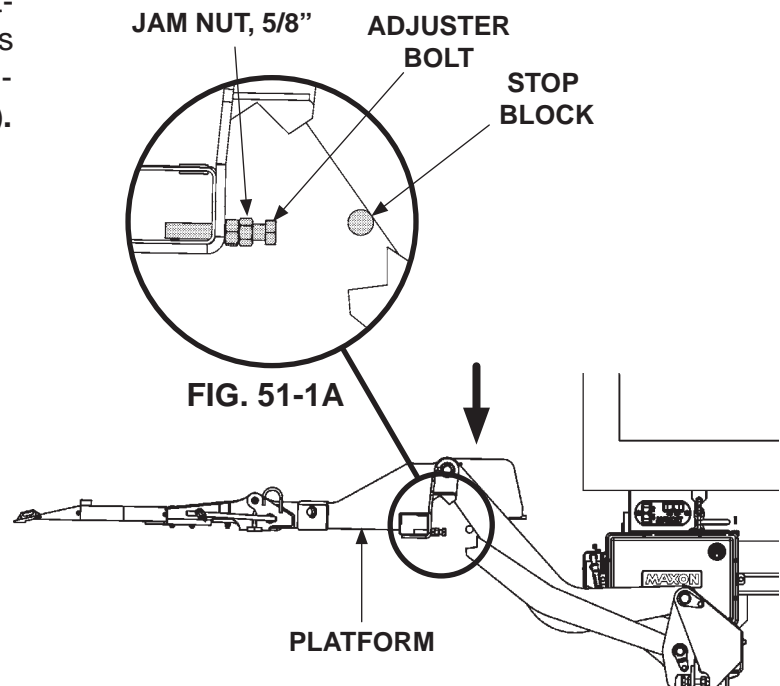
6. If platform is higher, or lower, than vehicle floor, adjust maximum platform height as follows. Loosen jam nut on platform adjuster bolt (**FIGS. 50-2 and 50-2A**). Turn adjuster bolt until it contacts the stop block (**FIG. 50-2A**).



ADJUSTING PLATFORM LEVEL WITH VEHICLE FLOOR
FIG. 50-2

STEP 7 - PLATFORM ADJUSTMENT- Continued

7. Next, to access jam nut, lower platform approximately 12 to 15 inches and tighten jam nut on platform adjuster bolt (**FIGS. 51-1 and 51-1A**). Torque jam nut to **100 lb-ft**. Raise platform to bed level.



TIGHTENING PLATFORM ADJUSTER BOLT
FIG. 51-1

8. Next, loosen jam nut on adjuster bolt (**FIGS. 51-2 and 51-2A**) and loosen rear bolts (**FIG. 51-2B**) on both installation plates on both sides.

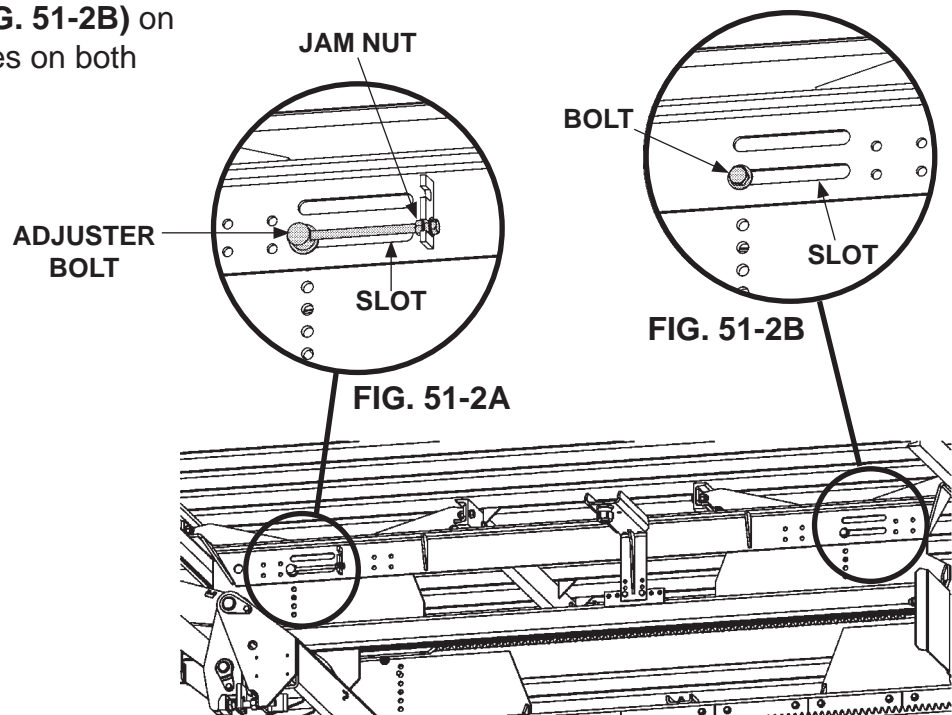


FIG. 51-2

STEP 7 - PLATFORM ADJUSTMENT- Continued

9. Ensure platform is flush with vehicle floor (**FIGS. 52-1 and 52-1A**). Next, nudge the Liftgate forward until platform heel is approximately 5/8" from side sill on vehicle (**FIGS. 52-1A and 52-2**). Then tighten jam nuts and bolts (**FIGS. 52-2A and 52-2B**). Torque each bolt to **100 lb-ft**.

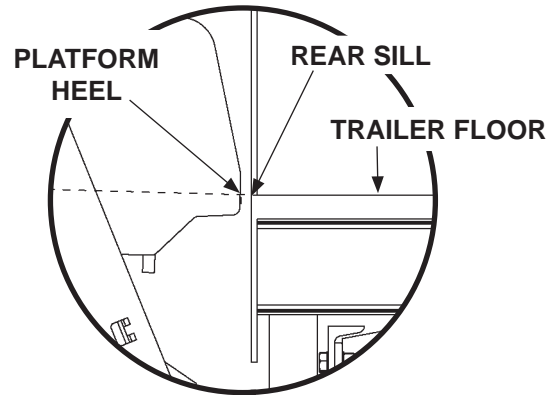
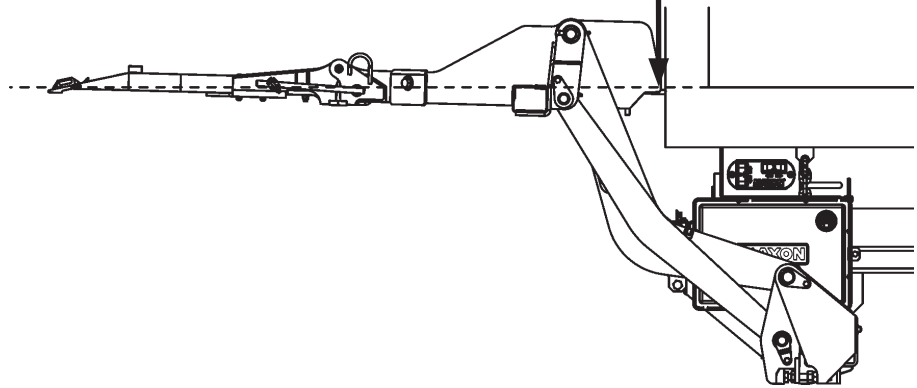
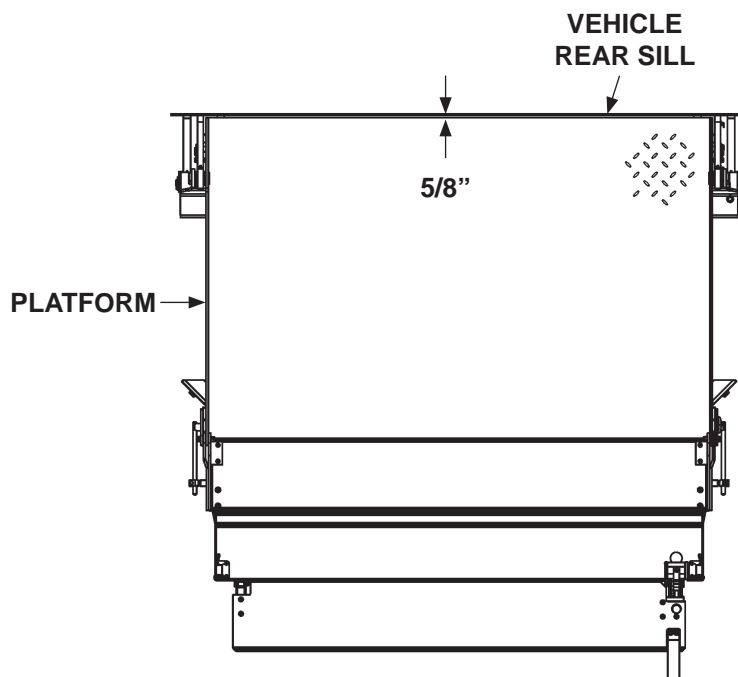


FIG. 52-1A



PLATFORM FLUSH WITH VEHICLE FLOOR

FIG. 52-1



PLATFORM TOP VIEW

FIG. 52-2

STEP 8 - FINAL BOLTING

NOTE: Eight holes (min.) 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. 53-1A, 53-1B, & 53-1C**).

NOTE: If trailer interferes with bolts placed in top holes (**FIG. 53-1B**), the bottom holes can be used for bolting (**FIG. 53-1C**).

1. Use installation plate as a template to drill eight holes (1/2" dia.) in slider frame (**FIG. 53-1A**). Repeat for LH side.

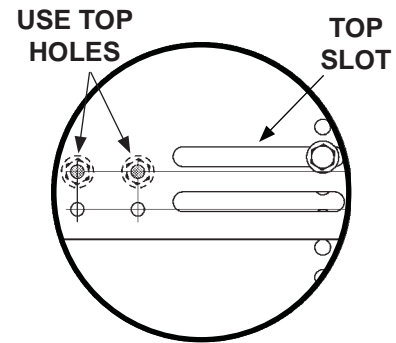


FIG. 53-1B

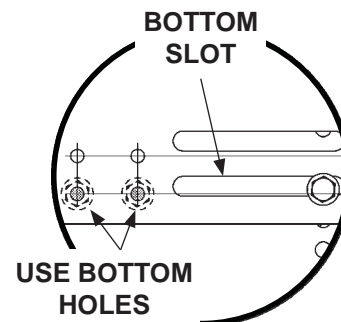
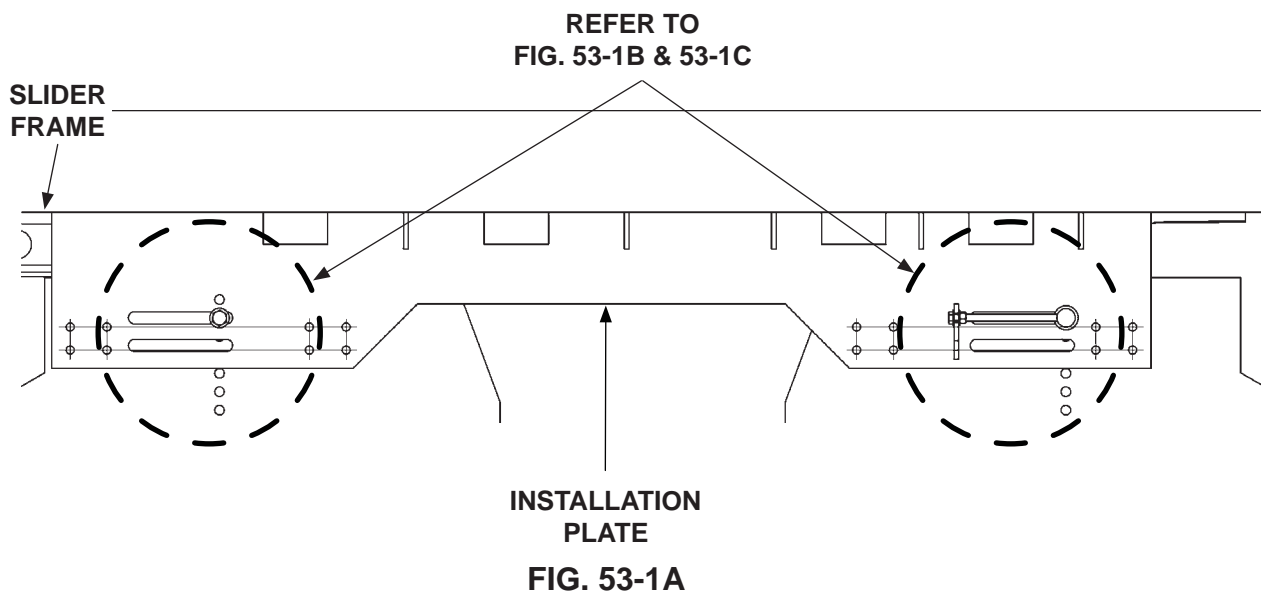


FIG. 53-1C



STEP 8 - FINAL BOLTING - Continued

2. Bolt RH installation plate to slider frame as shown in **FIG. 54-1**. Repeat for LH side. Torque each bolt to **120 lb-ft**.

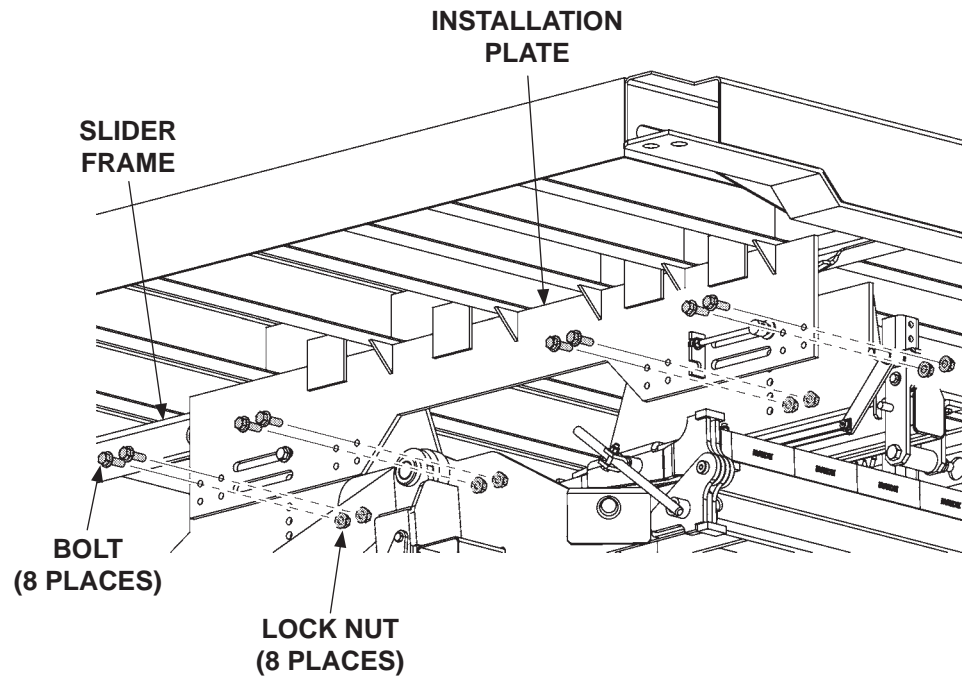


FIG. 54-1

STEP 9 - ATTACH SLIDING AXLE STOPS (IF REQUIRED)

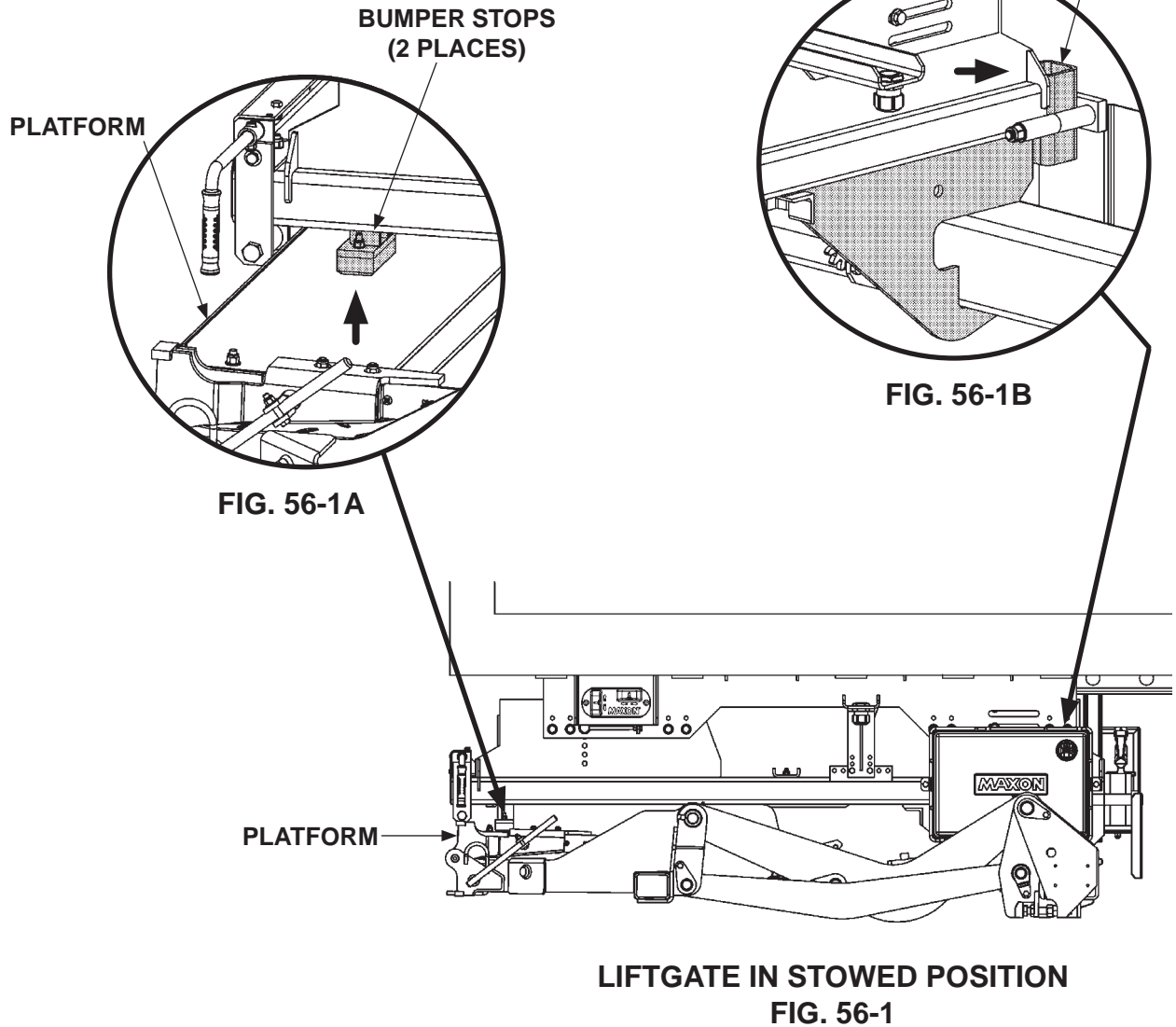
CAUTION

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.

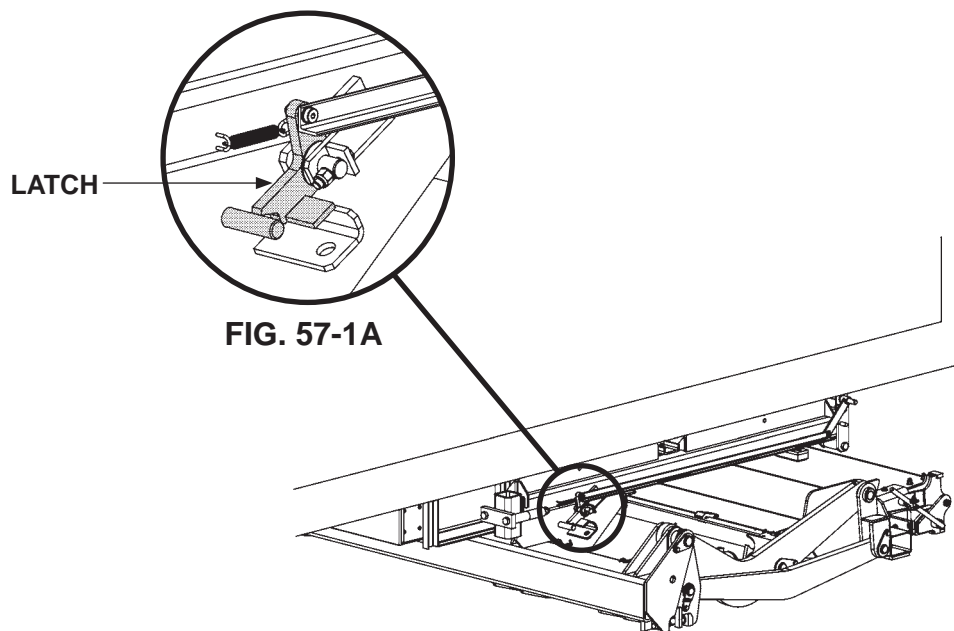
STEP 10 - ATTACH SAFETY CHAIN

1. Stow Liftgate all the way in until slide mechanism hits the rail stops (**FIGS. 56-1 and 56-1B**).
2. Raise the platform until it presses against the bumper stops (**FIGS. 56-1A and 56-1B**).



STEP 10 - ATTACH SAFETY CHAIN - Continued

3. Ensure the latch is in locked position (FIGS. 57-1 and 57-1A).



**LOCKING LIFTGATE IN STOWED POSITION
(LH SIDE SHOWN)
FIG. 57-1**

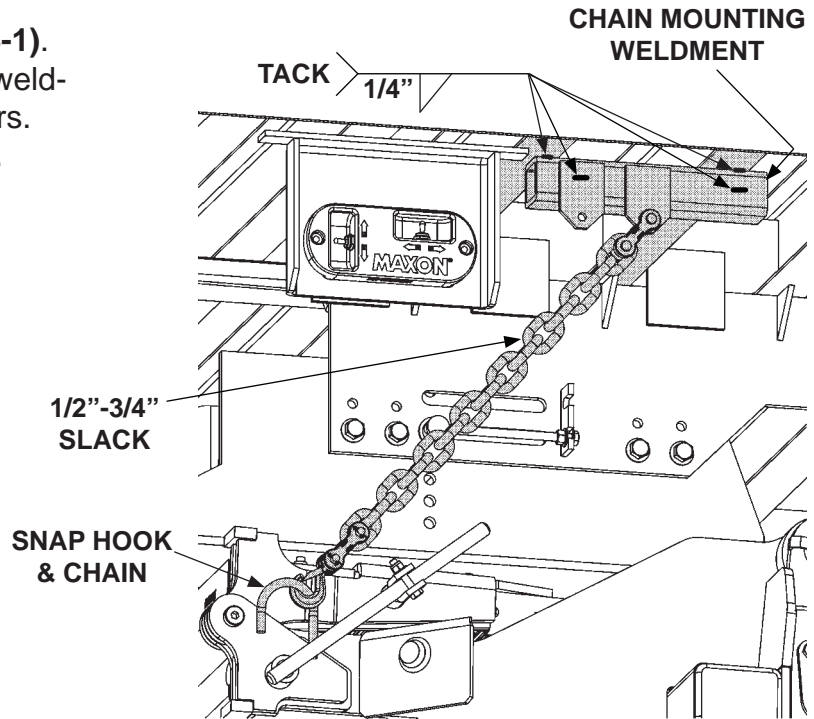
STEP 10 - ATTACH SAFETY CHAIN - Continued

4. Hook chain to platform (**FIG. 58-1**). Then, position chain mounting weldment to bottom of crossmembers. Keep 1/2" to 3/4" slack in chain.

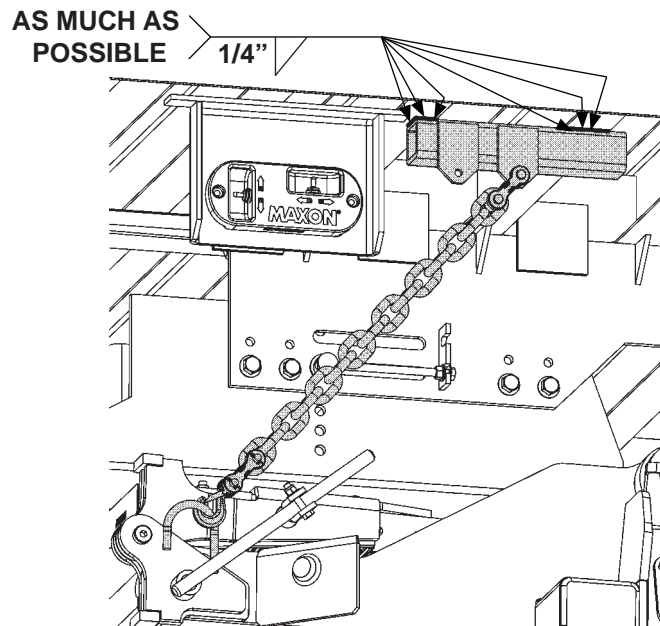
5. Tack weld the chain mounting weldment as shown in **FIG. 58-1**.

6. Hook and unhook chain from snap hook. Hook should be easy to disengage from snap hook (**FIG. 58-1**).

7. When chain mounting weldment is in correct position, finish welding to vehicle crossmembers as shown in **FIG. 58-2**.

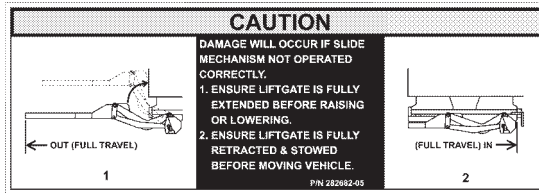


**POSITIONING & TACK WELDING
CHAIN MOUNTING WELDMENT
FIG. 58-1**

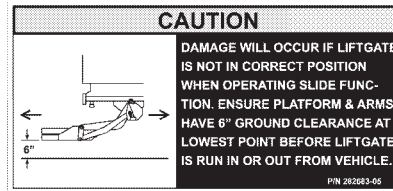


**FINISH WELDING CHAIN MOUNTING
WELDMENT
FIG. 58-2**

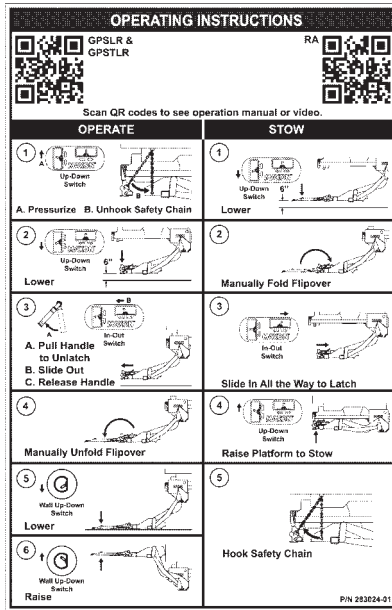
ATTACH DECALS



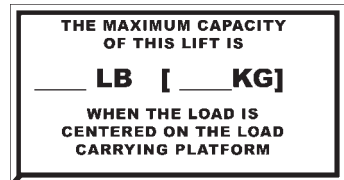
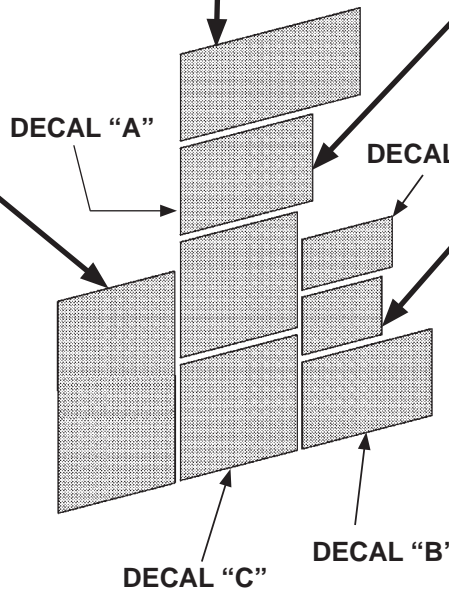
CAUTION DECAL
P/N 282682-05



CAUTION DECAL
P/N 282683-05



OPERATION DECAL
P/N 283024-01



CAPACITY DECAL
(REFER TO TABLE 67-1)

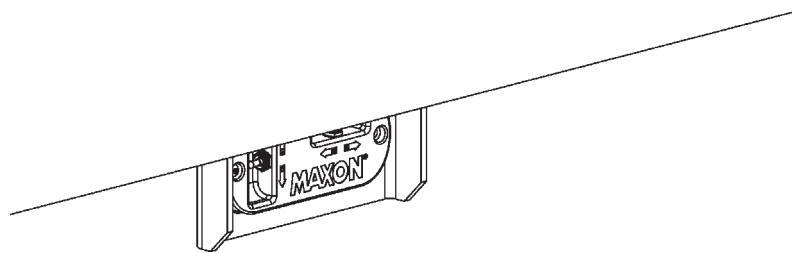
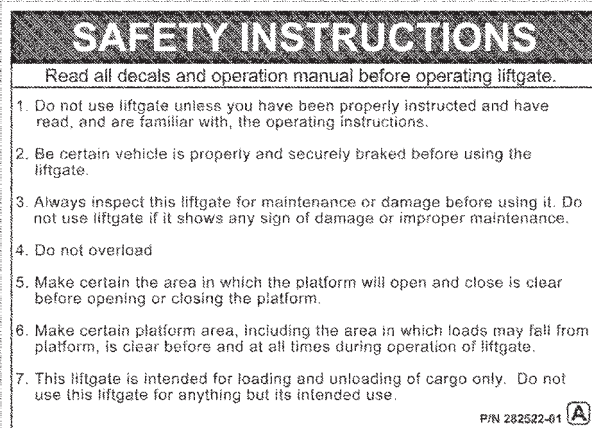
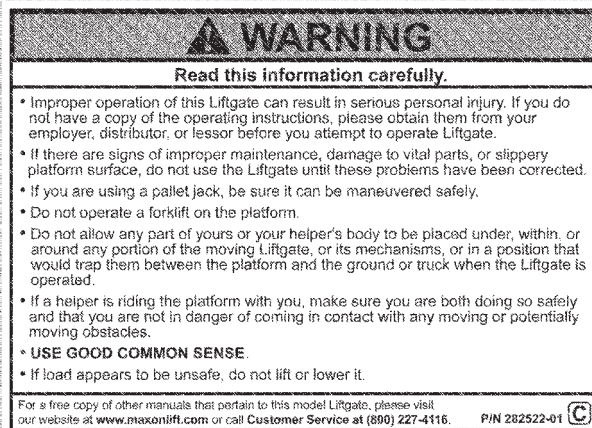
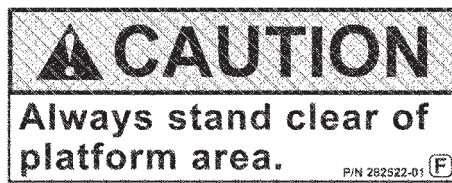


FIG. 59-1

MODEL	ORDER P/N	DECAL "C"
GPSLR/GPSLRT-35	220388-04	3500 LBS. (1600 KG)
GPSLR/GPSLRT-44	253155	4400 LBS. (2000 KG)
GPSLR/GPSLRT-55	253161	5500 LBS. (2500 KG)

CAPACITY DECAL PART NUMBERS
TABLE 59-1

ATTACH DECALS - Continued



DECAL SHEET
P/N 282522-01
FIG. 60-1

DECAL POSITIONS

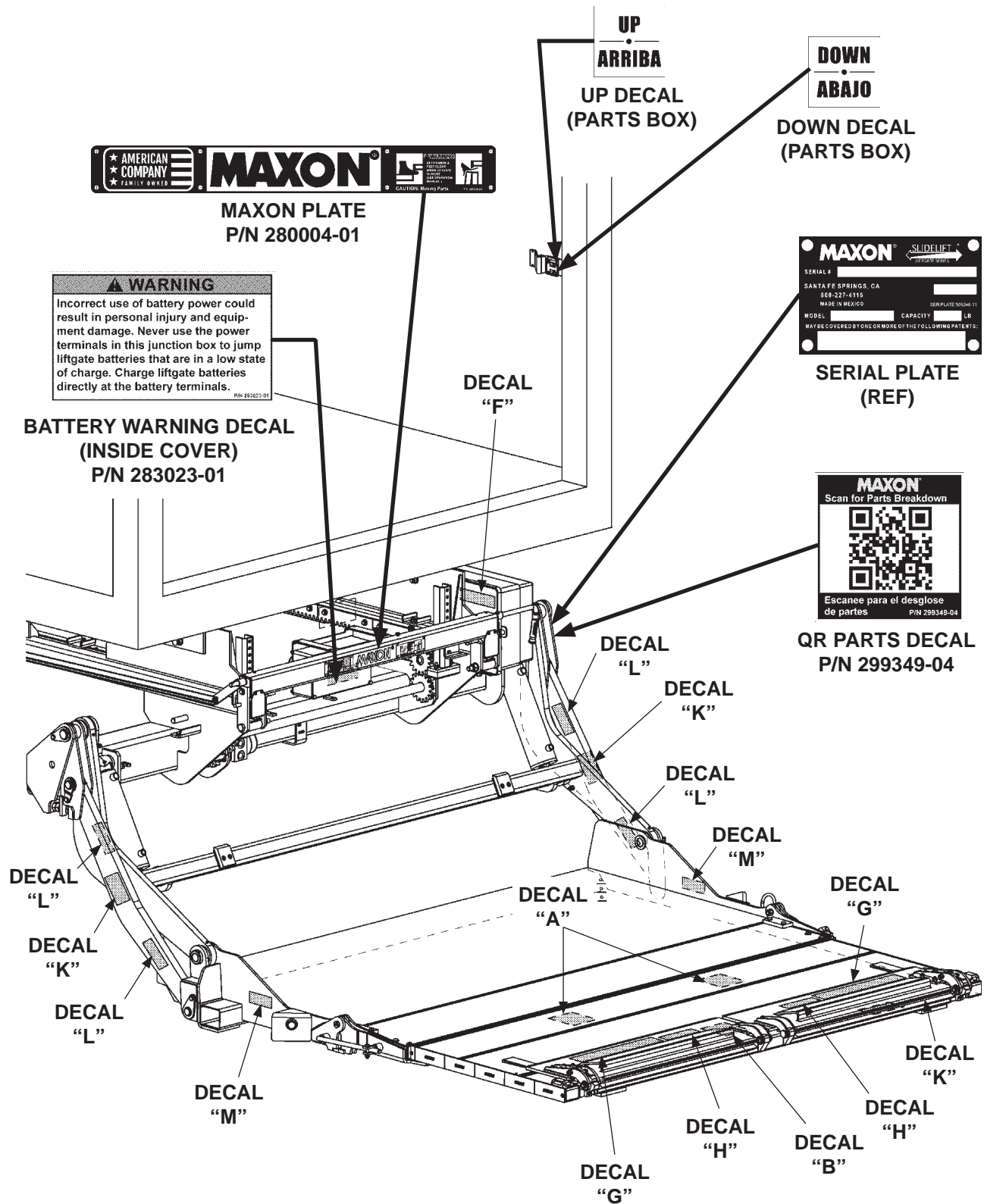
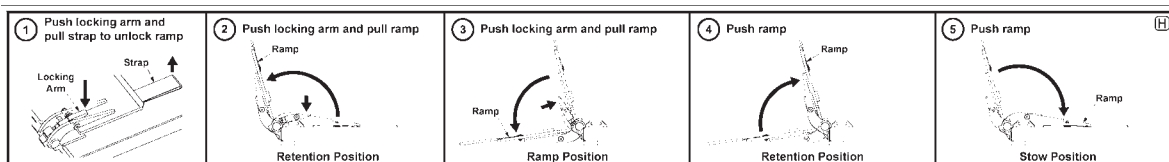
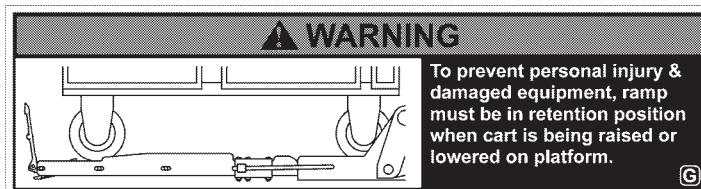
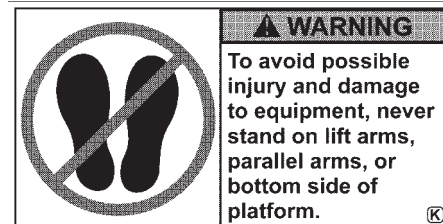


FIG. 61-1

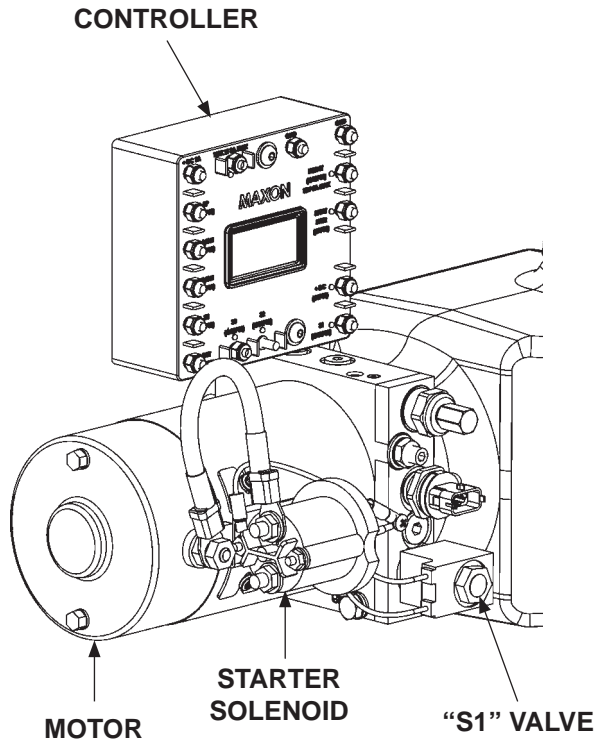
DECAL POSITIONS - Continued



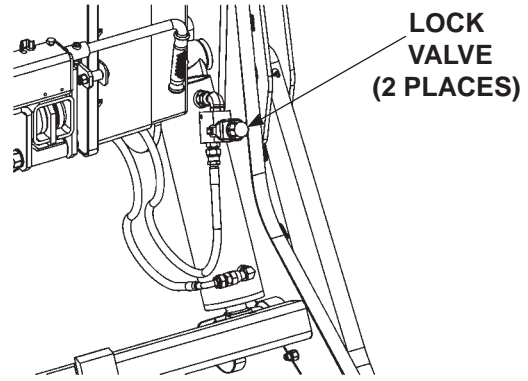
DECAL SHEET
P/N 267432-03
FIG. 62-1

SYSTEM DIAGRAMS

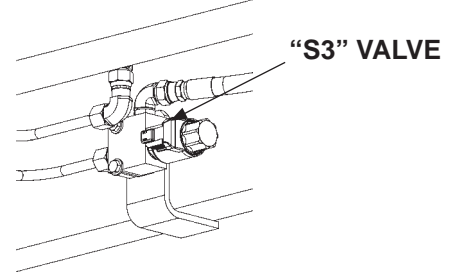
PUMP & MOTOR SOLENOID OPERATION - SINGLE PUMP



POWER UNIT
FIG. 63-1



LOCK VALVE ("S2")
(RH CYLINDER SHOWN)
FIG. 63-2

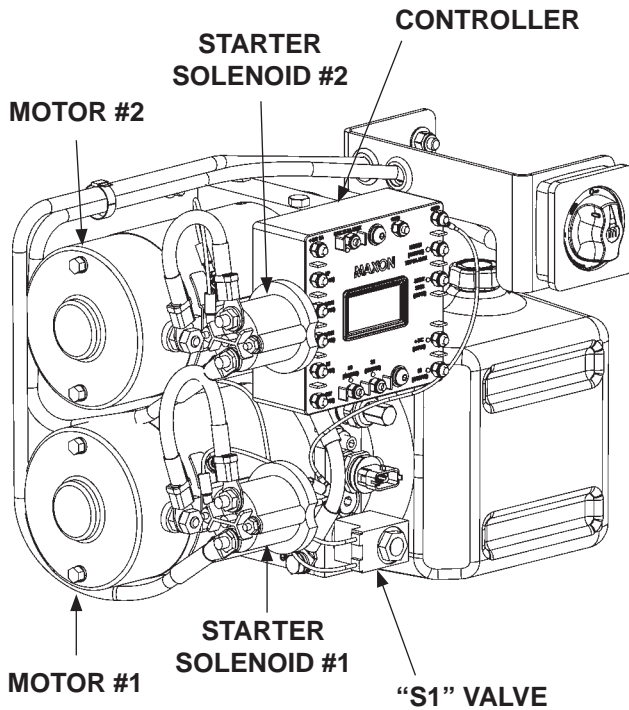


"S3" VALVE
(REAR OF PUMP MOUNTING PLATE)
FIG. 63-3

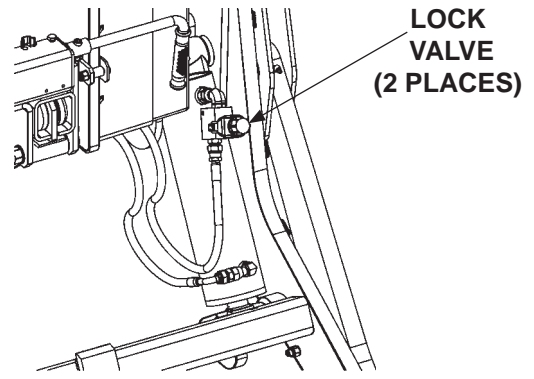
POWER UNIT MOTOR & SOLENOID OPERATION				
LIFTGATE FUNCTION	SOLENOID OPERATION (✓ MEANS ENERGIZED)			
	MOTOR	VALVE "S1"	VALVE "S3"	LOCK VALVES ("S2" VALVES)
RAISE	✓	-	-	✓
LOWER (GD)	-	✓	-	✓
LOWER (PD)	✓	✓	-	✓
SLIDE OUT	✓	-	✓	-
SLIDE IN	✓	✓	✓	-
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC				

TABLE 63-1

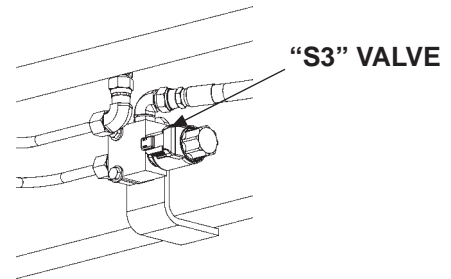
SYSTEM DIAGRAMS - Continued **PUMP & MOTOR SOLENOID OPERATION - DUAL PUMPS**



POWER UNIT
FIG. 64-1



LOCK VALVE ("S2")
(RH CYLINDER SHOWN)
FIG. 64-2



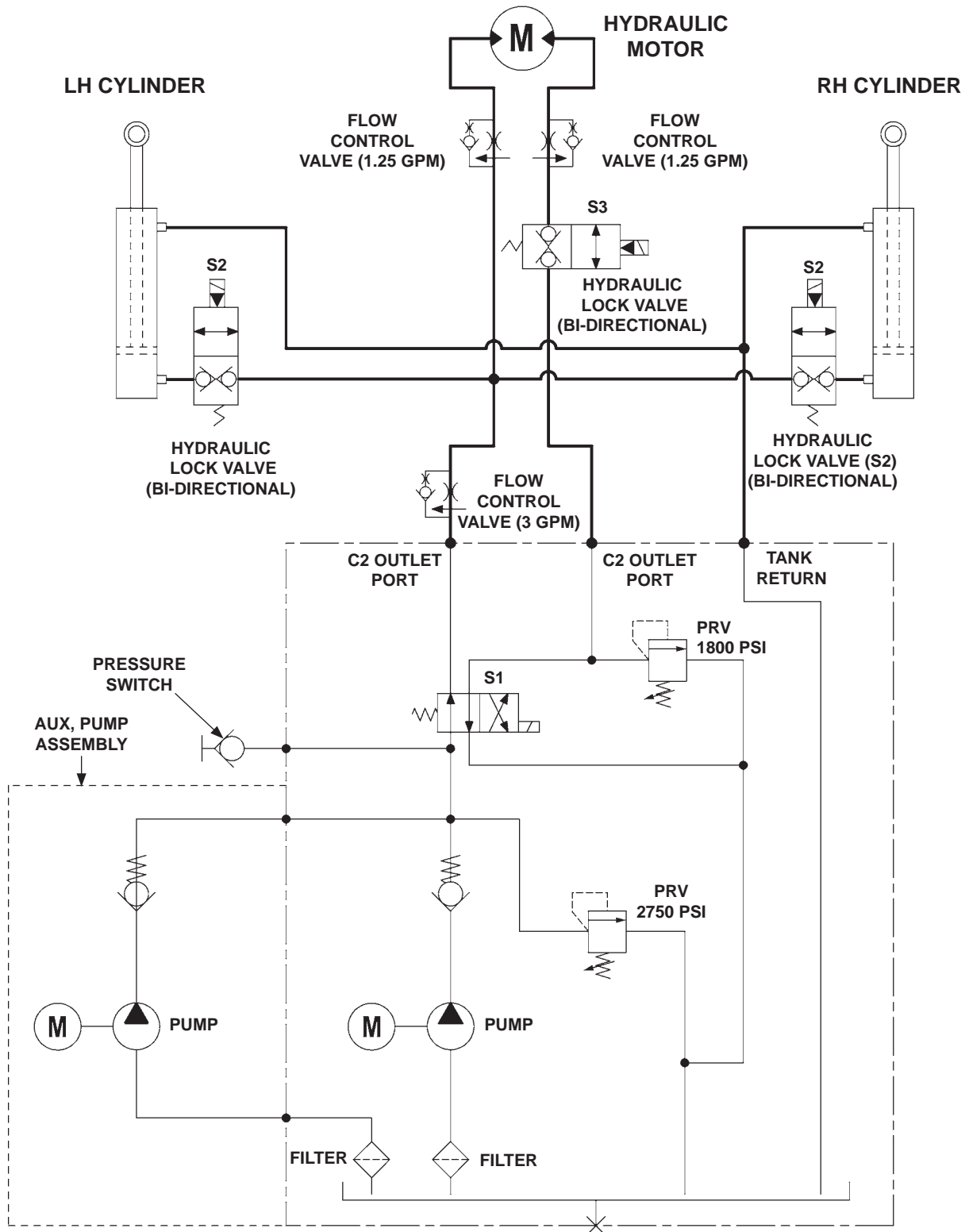
"S3" VALVE
(REAR OF PUMP MOUNTING PLATE)
FIG. 64-3

POWER UNIT MOTOR & SOLENOID OPERATION				
LIFTGATE FUNCTION	SOLENOID OPERATION (✓ MEANS ENERGIZED)			
	MOTOR (#1 OR #2)	VALVE "S1"	VALVE "S3"	LOCK VALVES ("S2" VALVES)
RAISE	✓	-	-	✓
LOWER (GD)	-	✓	-	✓
LOWER (PD)	✓	✓	-	✓
SLIDE OUT	✓	-	✓	-
SLIDE IN	✓	✓	✓	-
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC				

TABLE 64-1

SYSTEM DIAGRAMS - Continued

HYDRAULIC SCHEMATIC - GRAVITY DOWN

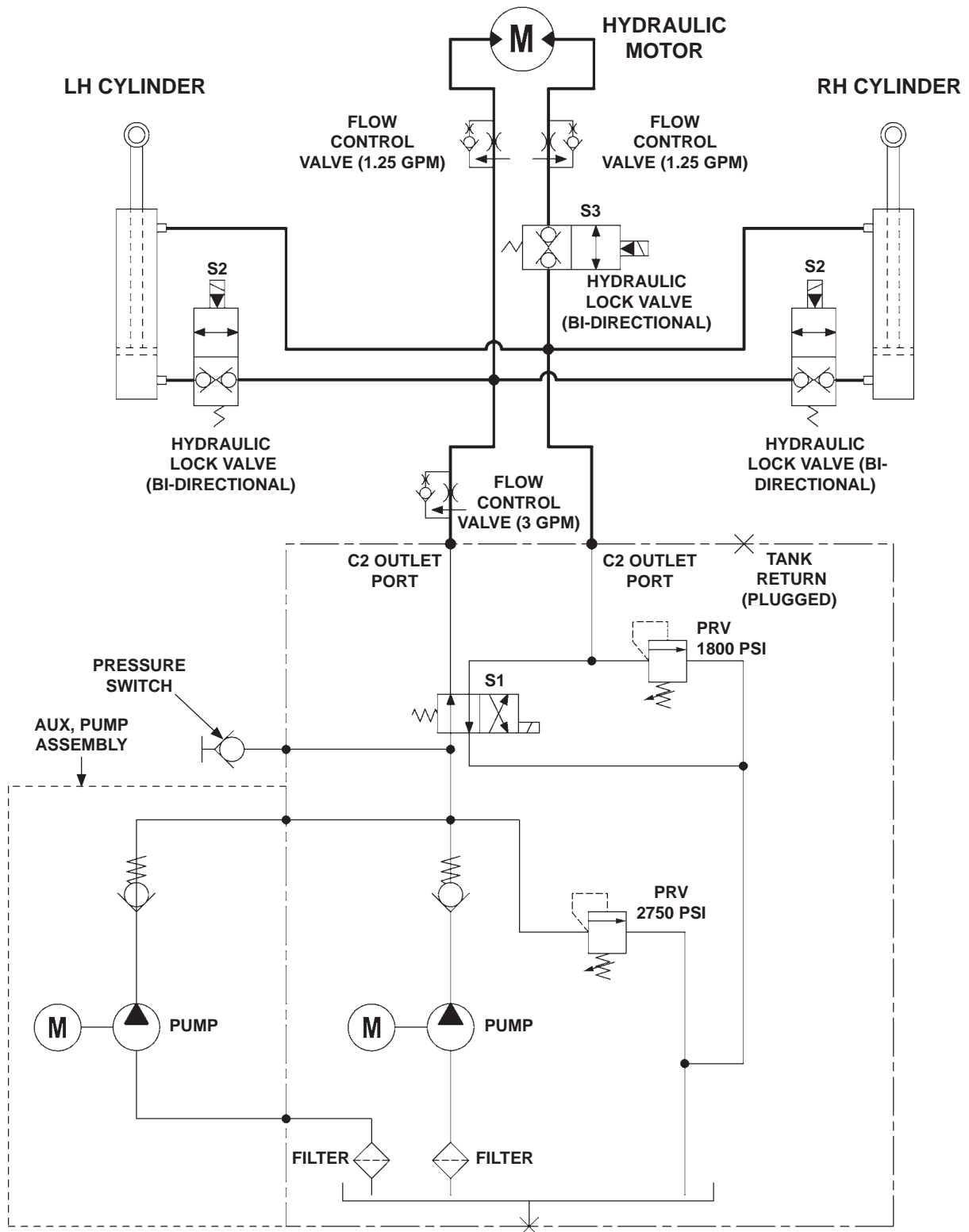


NOTE: PRV (PRESSURE RELIEF VALVE)

FIG. 65-1

SYSTEM DIAGRAMS - Continued

HYDRAULIC SCHEMATIC - POWER DOWN



NOTE: PRV (PRESSURE RELIEF VALVE)

FIG. 66-1

SYSTEM DIAGRAMS - Continued

ELECTRICAL SCHEMATIC - SINGLE PUMP

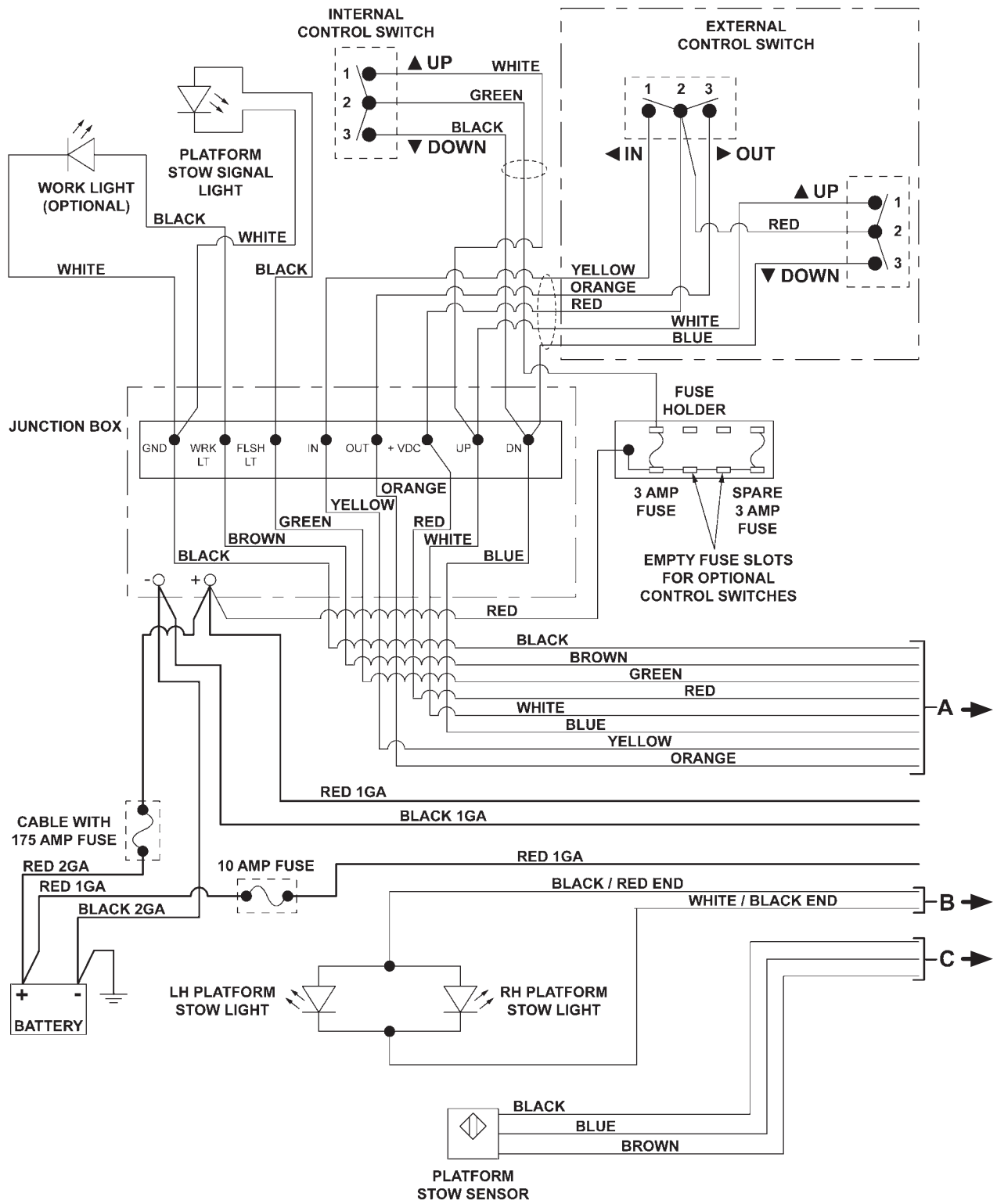


FIG. 67-1

SYSTEM DIAGRAMS - Continued

ELECTRICAL SCHEMATIC - SINGLE PUMP - Continued

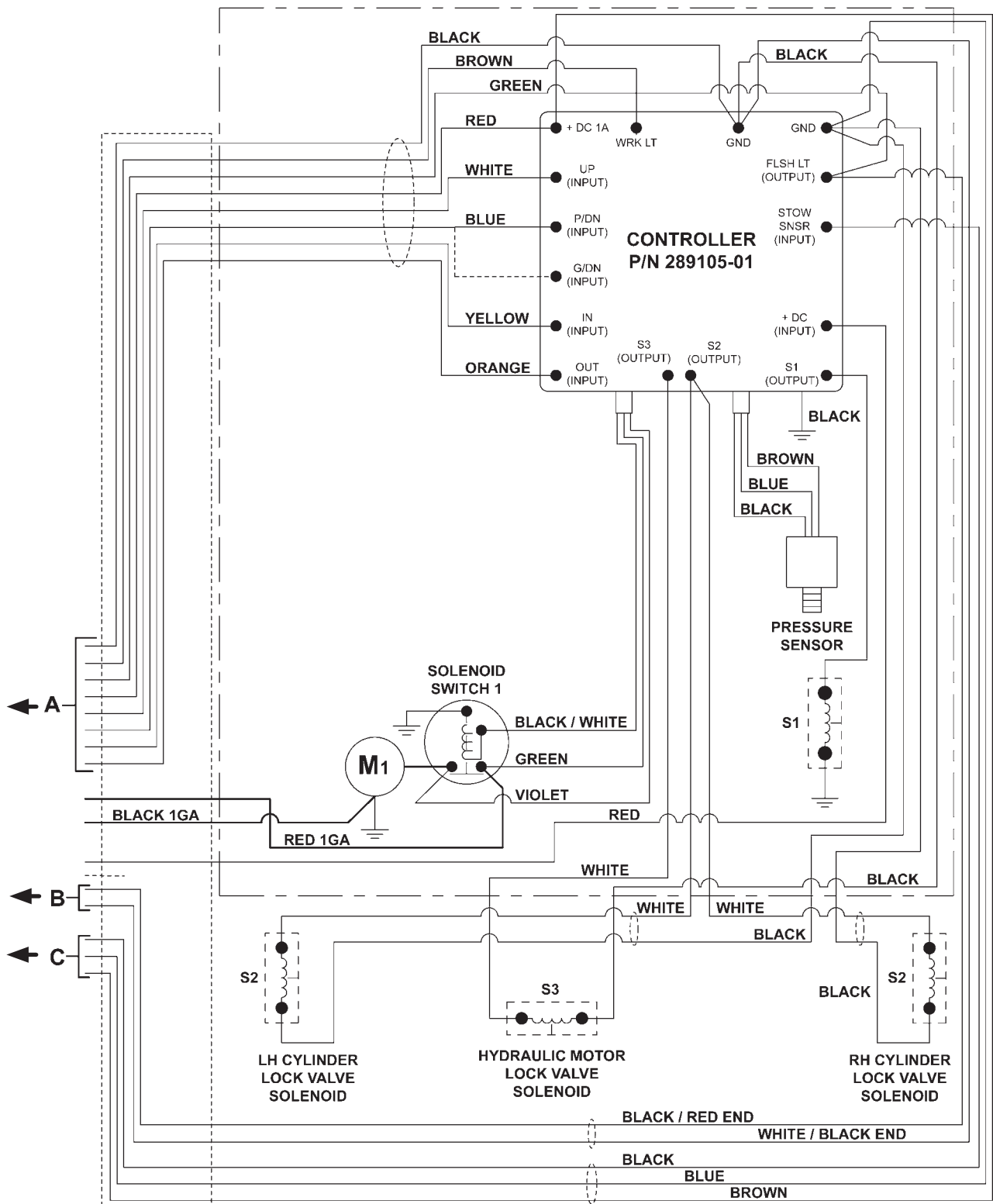


FIG. 68-1

SYSTEM DIAGRAMS - Continued

ELECTRICAL SCHEMATIC - DUAL PUMP

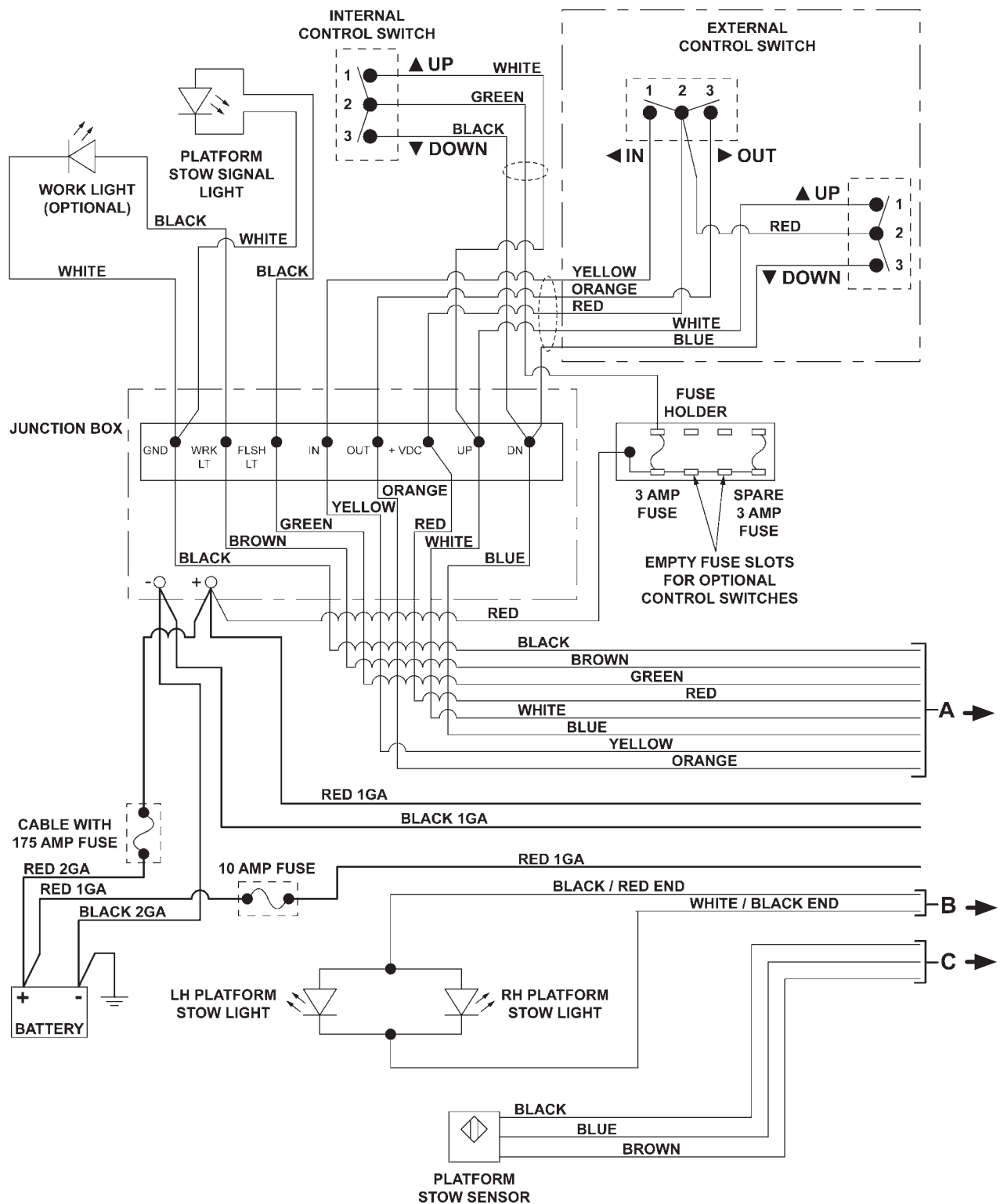


FIG. 69-1

SYSTEM DIAGRAMS - Continued

ELECTRICAL SCHEMATIC - DUAL PUMP - Continued

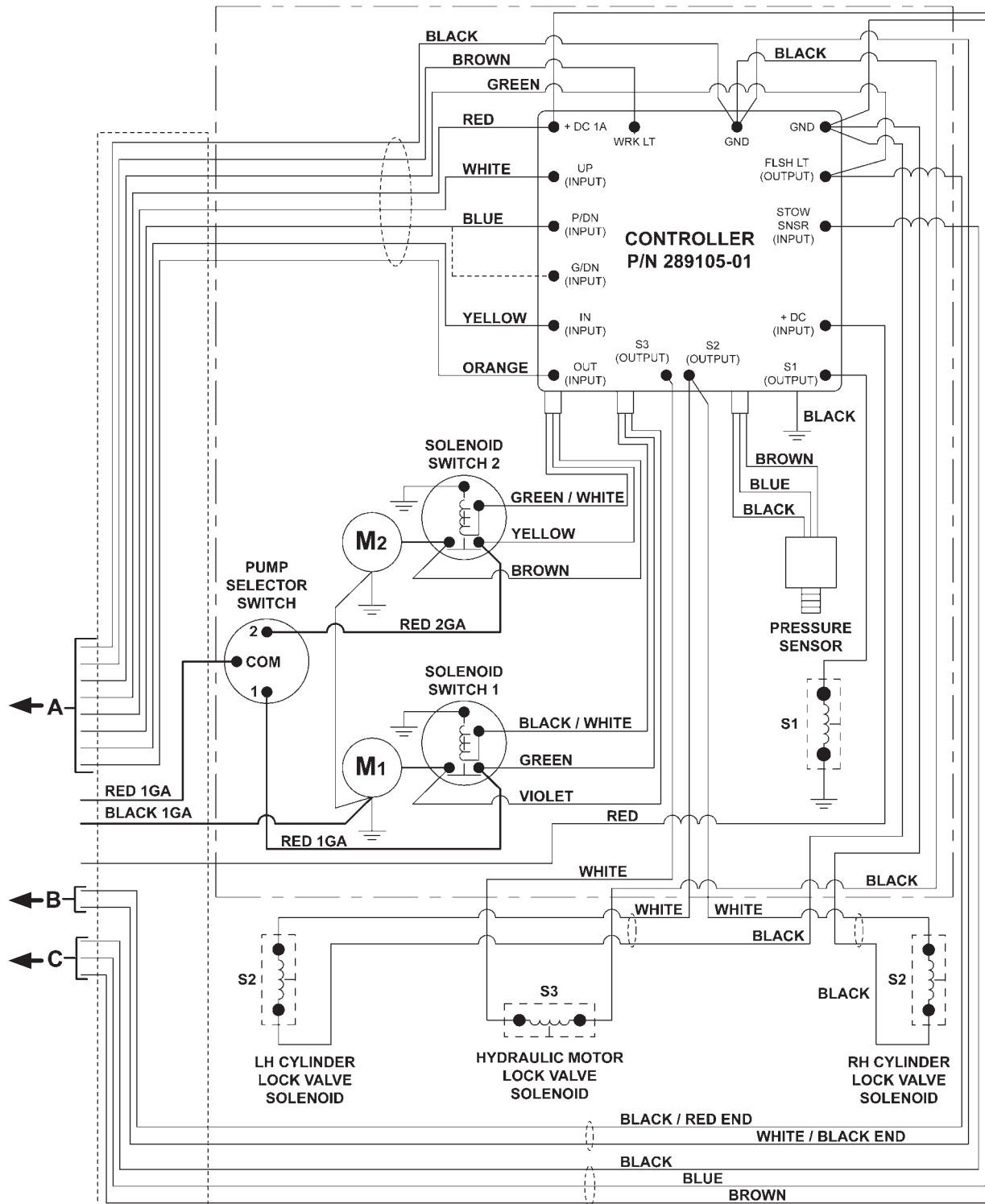


FIG. 70-1

OPTIONS OPTIONAL LIFTGATE COMPONENTS

KITS	PART NO.
POWER CABLE	
POWER CABLE, CHASSIS GROUND	289231-01
POWER CABLE, 20 FT.	289231-02
POWER CABLE, 30 FT.	289231-03
POWER CABLE, 40 FT.	289231-04
POWER CABLE, 50 FT.	289231-05
POWER CABLE, 60 FT.	289231-06
ELECTRICAL	
CIRCUIT BREAKER (150 AMP)	296504-150
DUAL & STREET SIDE CONTROL	289235-01
UNIVERSAL CAB CUTOFF SWITCH, 60 FT.	298905-01
UNIVERSAL CAB CUTOFF SWITCH, 45 FT.	298905-02
HAND HELD CONTROL	289234-01
WORK LIGHT	289175-01
INSIDE SAFETY LIGHT	289860-01
BATTERY BOX ASSEMBLY	
2 BATTERIES, FOR DIRECT CHARGING & CHARGER	289690-01
2 BATTERIES, FOR DIRECT CHARGING	289690-02
2 BATTERIES, WITH CHARGER BRACKET	289690-03
4 BATTERIES, FOR DIRECT CHARGING & CHARGER	289690-11
4 BATTERIES, FOR DIRECT CHARGING	289690-12
4 BATTERIES, WITH CHARGER BRACKET	289690-13
BATTERY CHARGER	
PHILLIPS, STA-CHARGE ASSEMBLY WITH FLAT MOUNTING PLATE	298544-03
PURKEY'S SELECT/DIRECT CHARGING PLATE	289986-01
MECHANICAL	
HANDLE, STOW UNLOCK, 7" LG.	289160-03
RAILING INSTALLATION, GPSLR / RA	299021-01
MISCELLANEOUS	
TRAFFIC CONE	268893-01



PRE-DELIVERY INSPECTION FORM

Model: _____

Date: _____

Serial Number: _____

Technician: _____

Pre-Installation Inspection:

- ☐ Correct model
- ☐ Correct capacity
- ☐ Correct platform size
- ☐ Correct options
- ☐ Manuals & decals

Structural Inspection:

- ☐ Inspect alignment of final assembly.
- ☐ Inspect pump box secure mounting.
- ☐ Inspect all installation welds.
- ☐ Check roll pins, bolts and fasteners.
- ☐ Inspect tightness of hardware used to secure liftgate to vehicle.
- ☐ Ensure platform ramp touches ground when shackles are 1" above ground, and platform & flipover are level & touching the ground.

Hydraulic Inspection:

- ☐ Proper fluid level (See **CHECKING HYDRAULIC FLUID** step in this manual).
- ☐ Check hydraulic fittings in pump box for leaks.
- ☐ Check hydraulic line connections for leaks.

Electrical Inspection:

- ☐ Check power/charge plug and terminal.
- ☐ Check for tight wire connections.
- ☐ Circuit breaker (150A) installed in battery box (if equipped) or by truck/tractor battery.
- ☐ Ensure batteries are fully charged, all cable connections are tight & tie-downs are tight.
- ☐ Inspect all solenoid connections.
- ☐ Check all wiring harness connections.
- ☐ Check electrical cable connections are tight & secure.

Operation Inspection:

NOTE: The following times are for 60" bed height, steel platform with aluminum flipover, Exxon Univas HVI-13 hydraulic fluid, & 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-35

- ☐ Unloaded platform lowers in **10 sec.**
- ☐ Unloaded platform raises in **14 sec.**
- ☐ Unloaded platform stows IN in **9-10 sec.**
- ☐ Unloaded platform to OUT position in **6-7 sec.**

GPSLR-44

- ☐ Unloaded platform lowers in **7 to 11 sec.**
- ☐ Unloaded platform raises in **9 to 13 sec.**
- ☐ Unloaded platform stows IN in **12 sec.**
- ☐ Unloaded platform to OUT position in **8 sec.**

GPSLR-55

- ☐ Unloaded platform lowers in **14 sec.**
- ☐ Unloaded platform raises in **14 sec.**
- ☐ Unloaded platform to stow position in **9-10 sec.**
- ☐ Unloaded platform to OUT position in **6-7 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.

