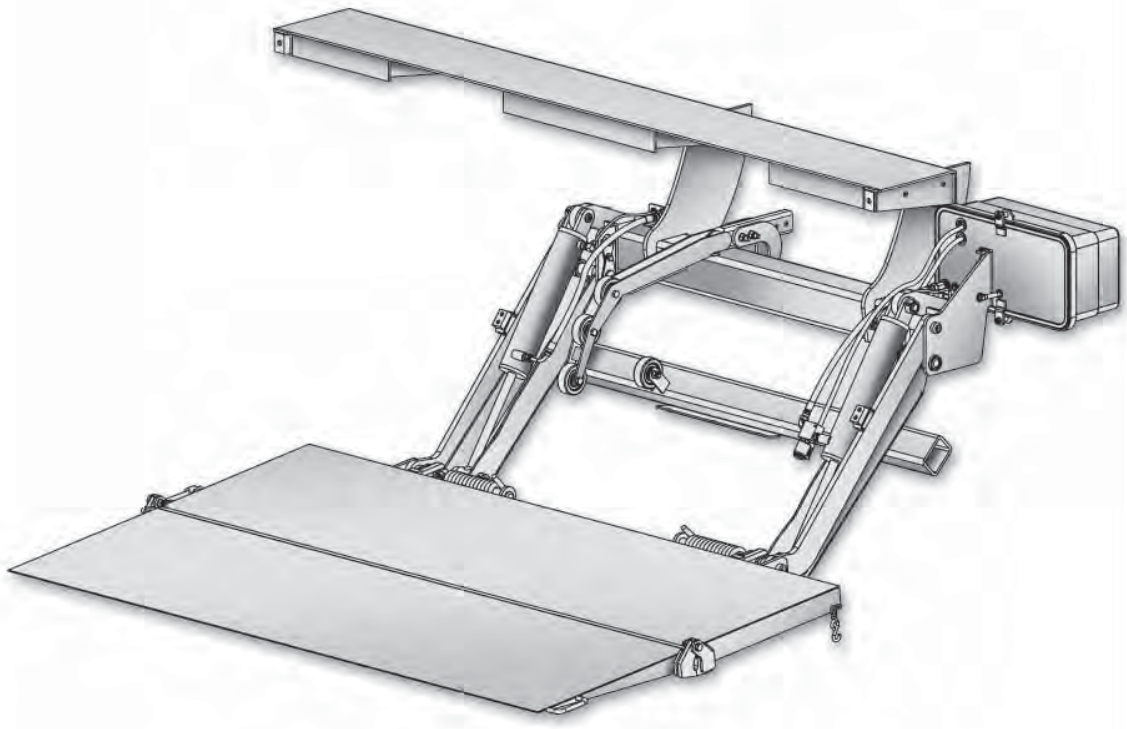
M-11-06
REV. B
SEPTEMBER 2012

MAXON®

TE-33

INSTALLATION MANUAL

TE-33HB, TE-33LB & TEWR-33HB



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

⚠ WARNING

- Do not stand, or allow obstructions, under the platform when lowering the Liftgate. **Be sure your feet are clear of the Liftgate.**
- **Keep fingers, hands, arms, legs, and feet clear of moving Liftgate parts (and platform edges) when operating the Liftgate.**
- **Correctly stow platform when not in use. Extended platforms could create a hazard for people and vehicles passing by.**
- **Make sure vehicle battery power is disconnected** while installing Liftgate. Connect vehicle battery power to the Liftgate only when installation is complete or as required in the installation instructions.
- If it is necessary to stand on the platform while operating the Liftgate, keep your feet and any objects clear of the inboard edge of the platform. Your feet or objects on the platform can become trapped between the platform and the Liftgate extension plate.
- Never perform unauthorized modifications on the Liftgate. Modifications may result in early failure of the Liftgate and may create hazards for Liftgate operators and maintainers.
- Recommended practices for welding on steel parts are contained in the current **AWS (American Welding Society) D1.1 Structural Welding Code - Steel**. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.
- Welding on galvanized parts gives off especially hazardous fumes. Comply with WARNING decal on the galvanized part **(FIG. 3-1)**. To minimize hazard remove galvanizing from weld area, provide adequate ventilation, and wear suitable respirator.

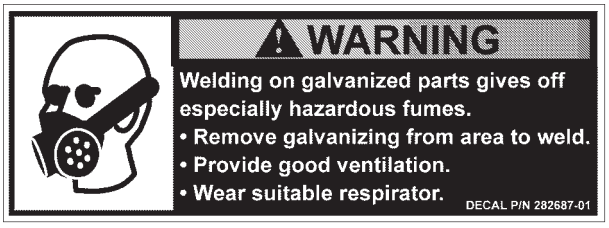

FIG. 3-1

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SAFETY INSTRUCTIONS

- Read and understand the instructions in this **Installation Manual** before installing Liftgate.
- Before operating the Liftgate, read and understand the operating instructions in **Operation Manual**.
- Comply with all **WARNING** and instruction decals attached to the Liftgate.
- Keep decals clean and legible. If decals are illegible or missing, replace them. Free replacement decals are available from **Maxon Customer Service**.
- Consider the safety and location of bystanders and location of nearby objects when operating the Liftgate. Stand to one side of the platform while operating the Liftgate.
- Do not allow untrained persons to operate the Liftgate.
- Wear appropriate safety equipment such as protective eyeglasses, faceshield and clothing while performing maintenance on the Liftgate and handling the battery. Debris from drilling and contact with battery acid may injure unprotected eyes and skin.
- Be careful working by an automotive type battery. Make sure the work area is well ventilated and there are no flames or sparks near the battery. Never lay objects on the battery that can short the terminals together. If battery acid gets in your eyes, immediately seek first aid. If acid gets on your skin, immediately wash it off with soap and water.
- If an emergency situation arises (vehicle or Liftgate) while operating the Liftgate, release the control switch to stop the Liftgate.
- A correctly installed Liftgate operates smoothly and reasonably quiet. The only noticeable noise during operation comes from the power unit while the platform is raised and lowered. Listen for scraping, grating and binding noises and correct the problem before continuing to operate Liftgate.

NOTICE

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

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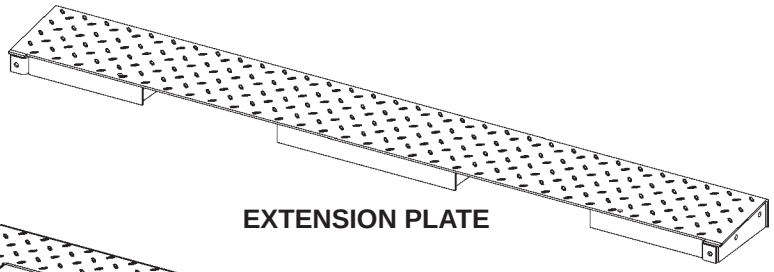
STANDARD LIFTGATE COMPONENTS

⚠ CAUTION

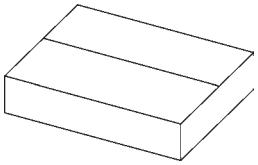
Unpacking the Liftgate on unlevel surface may allow heavy components to slide off when shipping bands are cut. Injury and equipment damage could result. Before the shipping bands are cut, put Liftgate on level asphalt, concrete or compacted dirt surface that will support 1500 lbs. When unpacking the Liftgate, remove heavy components carefully to avoid injury and damage.

NOTE: Make sure you have all components and parts before you start installing Liftgate. Compare parts in the part box and each kit box with packing list enclosed in each box. If parts and components are missing or incorrect, call:

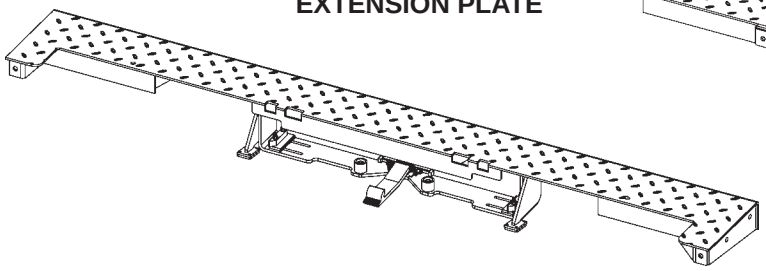
Maxon Customer Service
Call (800) 227-4116 or
Send e-mail to cservice@maxonlift.com



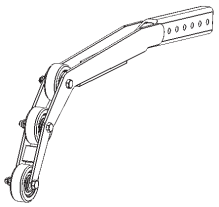
EXTENSION PLATE



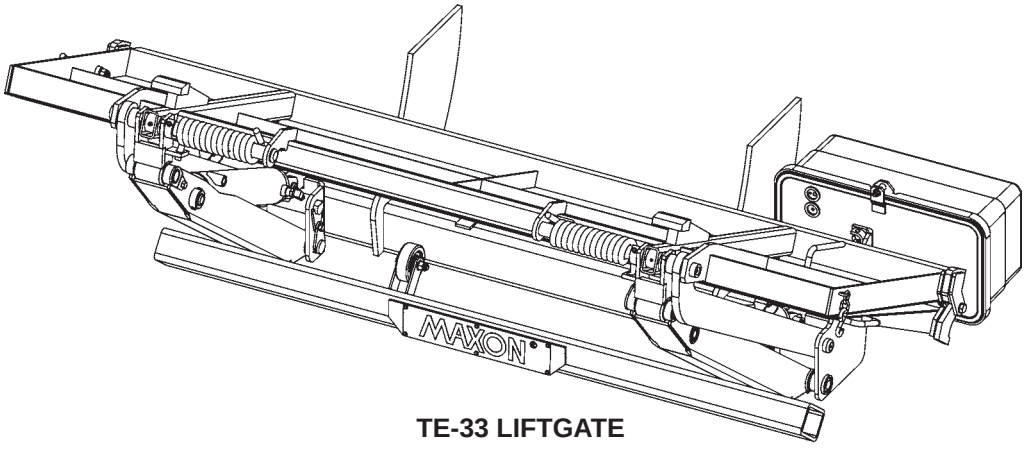
PARTS BOX



EXTENSION PLATE FOR WALK RAMP



OPENER



TE-33 LIFTGATE

TE-33 LIFTGATE COMPONENTS
FIG. 5-1

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TE-33 INSTALLATION PARTS BOXES

96” WIDE VEHICLE, LOW BED, GRAVITY DOWN

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX	1	269465-03
1	FUSED POWER CABLE, 175 AMP, 38’ LG.	1	264422
2	MOLDED SWITCH ASSEMBLY	1	267959-01
3	COPPER LUG (2 GAUGE)	1	906497-02
4	SELF-TAPPING SCREW, 10-24 X 1” LG.	4	900057-5
5	SPRING CLIP	7	050079
6	CLAMP, #10 RUBBER LOOM	2	801681
7	EXTENSION PLATE HARDWARE KIT (96” WIDE VEH)	1	283257-01
7A	TEARDROP (1/2”-13 LOCK NUT) (96” WIDE VEH KIT)	13	283700-01
7B	HEX FRAME BOLT, 1/2”-13 X 1-3/4” LG. (96” WIDE VEH KIT)	13	901024-2
8	FITTING JIG (LOW BED)	2	285629-02
9	MOLDED 6-POSITION SWITCH & CABLE, 9” (POWER DOWN)	1	264951-04
10	TE-33 MANUAL & DECAL KIT	1	269464-01
11	TE-33 OPENER ASSEMBLY	1	269593-01

TABLE 6-1

102” WIDE VEHICLE, LOW BED, GRAVITY DOWN

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX	1	269465-04
1	FUSED POWER CABLE, 175 AMP, 38’ LG.	1	264422
2	MOLDED SWITCH ASSEMBLY	1	267959-01
3	COPPER LUG (2 GAUGE)	1	906497-02
4	SELF-TAPPING SCREW, 10-24 X 1” LG.	4	900057-5
5	SPRING CLIP	7	050079
6	CLAMP, #10 RUBBER LOOM	2	801681
7	EXTENSION PLATE HARDWARE KIT (102” WIDE VEH)	1	283257-02
7A	TEARDROP (1/2”-13 LOCK NUT) (102” WIDE VEH KIT)	15	283700-01
7B	HEX FRAME BOLT, 1/2”-13 X 1-3/4” LG. (102” WIDE VEH KIT)	15	901024-2
8	FITTING JIG (LOW BED)	2	285629-02
9	MOLDED 6-POSITION SWITCH & CABLE, 9” (POWER DOWN)	1	264951-04
10	TE-33 MANUAL & DECAL KIT	1	269464-01
11	TE-33 OPENER ASSEMBLY	1	269593-01

TABLE 6-2

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TE-33 INSTALLATION PARTS BOXES - Continued

96” WIDE VEHICLE, HIGH BED, GRAVITY DOWN

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX	1	269465-01
1	FUSED POWER CABLE, 175 AMP, 38’ LG.	1	264422
2	MOLDED SWITCH ASSEMBLY	1	267959-01
3	COPPER LUG (2 GAUGE)	1	906497-02
4	SELF-TAPPING SCREW, 10-24 X 1” LG.	4	900057-5
5	SPRING CLIP	7	050079
6	CLAMP, #10 RUBBER LOOM	2	801681
7	EXTENSION PLATE HARDWARE KIT (96” WIDE VEH)	1	283257-01
7A	TEARDROP (1/2”-13 LOCK NUT) (96” WIDE VEH KIT)	13	283700-01
7B	HEX FRAME BOLT, 1/2”-13 X 1-3/4” LG. (96” WIDE VEH KIT)	13	901024-2
8	FITTING JIG (HIGH BED)	2	285629-01
9	MOLDED 6-POSITION SWITCH & CABLE, 9” (POWER DOWN)	1	264951-04
10	TE-33 MANUAL & DECAL KIT	1	269464-01
11	TE-33 OPENER ASSEMBLY	1	269593-01

TABLE 7-1

102” WIDE VEHICLE, HIGH BED, GRAVITY DOWN

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX	1	269465-02
1	FUSED POWER CABLE, 175 AMP, 38’ LG.	1	264422
2	MOLDED SWITCH ASSEMBLY	1	267959-01
3	COPPER LUG (2 GAUGE)	1	906497-02
4	SELF-TAPPING SCREW, 10-24 X 1” LG.	4	900057-5
5	SPRING CLIP	7	050079
6	CLAMP, #10 RUBBER LOOM	2	801681
7	EXTENSION PLATE HARDWARE KIT (102” WIDE VEH)	1	283257-02
7A	TEARDROP (1/2”-13 LOCK NUT) (102” WIDE VEH KIT)	15	283700-01
7B	HEX FRAME BOLT, 1/2”-13 X 1-3/4” LG. (102” WIDE VEH KIT)	15	901024-2
8	FITTING JIG (HIGH BED)	2	285629-01
9	MOLDED 6-POSITION SWITCH & CABLE, 9” (POWER DOWN)	1	264951-04
10	TE-33 MANUAL & DECAL KIT	1	269464-01
11	TE-33 OPENER ASSEMBLY	1	269593-01

TABLE 7-2

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

TE-33 INSTALLATION PARTS BOXES - Continued

96” WIDE VEHICLE, LOW BED, POWER DOWN

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX	1	269465-07
1	FUSED POWER CABLE, 175 AMP, 38’ LG.	1	264422
2	COPPER LUG (2 GAUGE)	1	906497-02
3	SELF-TAPPING SCREW, 10-24 X 1” LG.	4	900057-5
4	SPRING CLIP	7	050079
5	CLAMP, #10 RUBBER LOOM	2	801681
6	EXTENSION PLATE HARDWARE KIT (96” WIDE VEH)	1	283257-01
6A	TEARDROP (1/2”-13 LOCK NUT) (96” WIDE VEH KIT)	13	283700-01
6B	HEX FRAME BOLT, 1/2”-13 X 1-3/4” LG. (96” WIDE VEH KIT)	13	901024-2
7	FITTING JIG (LOW BED)	2	285629-02
8	MOLDED 6-POSITION SWITCH & CABLE, 9” (POWER DOWN)	1	264951-04
9	TE-33 MANUAL & DECAL KIT	1	269464-01
10	TE-33 OPENER ASSEMBLY	1	269593-01

TABLE 8-1

102” WIDE VEHICLE, LOW BED, POWER DOWN

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX	1	269465-08
1	FUSED POWER CABLE, 175 AMP, 38’ LG.	1	264422
2	COPPER LUG (2 GAUGE)	1	906497-02
3	SELF-TAPPING SCREW, 10-24 X 1” LG.	4	900057-5
4	SPRING CLIP	7	050079
5	CLAMP, #10 RUBBER LOOM	2	801681
6	EXTENSION PLATE HARDWARE KIT (102” WIDE VEH)	1	283257-02
6A	TEARDROP (1/2”-13 LOCK NUT) (102” WIDE VEH KIT)	15	283700-01
6B	HEX FRAME BOLT, 1/2”-13 X 1-3/4” LG. (102” WIDE VEH KIT)	15	901024-2
7	FITTING JIG (LOW BED)	2	285629-02
8	MOLDED 6-POSITION SWITCH & CABLE, 9” (POWER DOWN)	1	264951-04
9	TE-33 MANUAL & DECAL KIT	1	269464-01
10	TE-33 OPENER ASSEMBLY	1	269593-01

TABLE 8-2

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TE-33 INSTALLATION PARTS BOXES - Continued

96” WIDE VEHICLE, HIGH BED, POWER DOWN

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX	1	269465-05
1	FUSED POWER CABLE, 175 AMP, 38’ LG.	1	264422
2	COPPER LUG (2 GAUGE)	1	906497-02
3	SELF-TAPPING SCREW, 10-24 X 1” LG.	4	900057-5
4	SPRING CLIP	7	050079
5	CLAMP, #10 RUBBER LOOM	2	801681
6	EXTENSION PLATE HARDWARE KIT (96” WIDE VEH)	1	283257-01
6A	TEARDROP (1/2”-13 LOCK NUT) (96” WIDE VEH KIT)	13	283700-01
6B	HEX FRAME BOLT, 1/2”-13 X 1-3/4” LG. (96” WIDE VEH KIT)	13	901024-2
7	FITTING JIG (HIGH BED)	2	285629-01
8	MOLDED 6-POSITION SWITCH & CABLE, 9” (POWER DOWN)	1	264951-04
9	TE-33 MANUAL & DECAL KIT	1	269464-01
10	TE-33 OPENER ASSEMBLY	1	269593-01

TABLE 9-1

102” WIDE VEHICLE, HIGH BED, POWER DOWN

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	PARTS BOX	1	269465-06
1	FUSED POWER CABLE, 175 AMP, 38’ LG.	1	264422
2	COPPER LUG (2 GAUGE)	1	906497-02
3	SELF-TAPPING SCREW, 10-24 X 1” LG.	4	900057-5
4	SPRING CLIP	7	050079
5	CLAMP, #10 RUBBER LOOM	2	801681
6	EXTENSION PLATE HARDWARE KIT (102” WIDE VEH)	1	283257-02
6A	TEARDROP (1/2”-13 LOCK NUT) (102” WIDE VEH KIT)	15	283700-01
6B	HEX FRAME BOLT, 1/2”-13 X 1-3/4” LG. (102” WIDE VEH KIT)	15	901024-2
7	FITTING JIG (HIGH BED)	2	285629-01
8	MOLDED 6-POSITION SWITCH & CABLE, 9” (POWER DOWN)	1	264951-04
9	TE-33 MANUAL & DECAL KIT	1	269464-01
10	TE-33 OPENER ASSEMBLY	1	269593-01

TABLE 9-2

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

TE-33 MANUALS & DECALS

ITEM	NOMENCLATURE OR DESCRIPTION	QTY.	PART NUMBER
REF	TE-33 MANUAL & DECAL KIT	1	269464-01
1	INSTALLATION MANUAL	1	M-11-06
2	OPERATION MANUAL	1	M-11-07
3	MAINTENANCE MANUAL	1	M-11-08
4	DECALS (SEE DECAL PAGES IN THIS MANUAL)	1	220388-02
			251867-11
			264507
			265736-01
			282522-01
			282847-02
			265441-01
			266013-02

TABLE 10-1

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VEHICLE REQUIREMENTS

NOTE: Body Maximum and Minimum Operating Bed Height for Standard Platform:

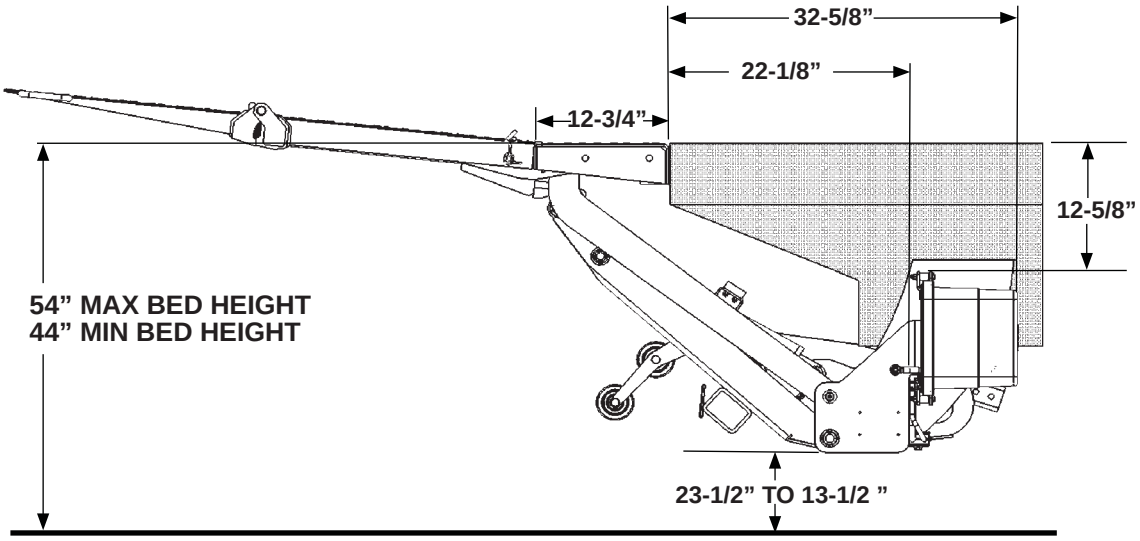
- Maximum height for TE-33HB (54”- 44” bed height) is **54”** (Unloaded). Minimum height is **44”** (Loaded).
- Maximum height for TE-33LB (44” - 40” bed height) is **44”** (Unloaded). Minimum height is **40”** (Loaded).
- Maximum height for TE-33LB (44” - 38” bed height) is **44”** (Unloaded). Minimum height is **38”** (Loaded).
- Maximum height for TEWR-33HB (walk ramp, 54”- 46” bed height) is **54”** (Unloaded). Minimum height is **46”** (Loaded).

If swing door latches interfere with fit of extension plate, do not install this Liftgate on vehicle bodies equipped with **swing open doors**.

1. Check for correct clearances **(FIGS. 11-1, 12-1, 12-2, 13-1)** on vehicle to prevent interference between vehicle and Liftgate.

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

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



TE-33HB CLEARANCES
(54” TO 44” BED HEIGHT)
FIG. 11-1

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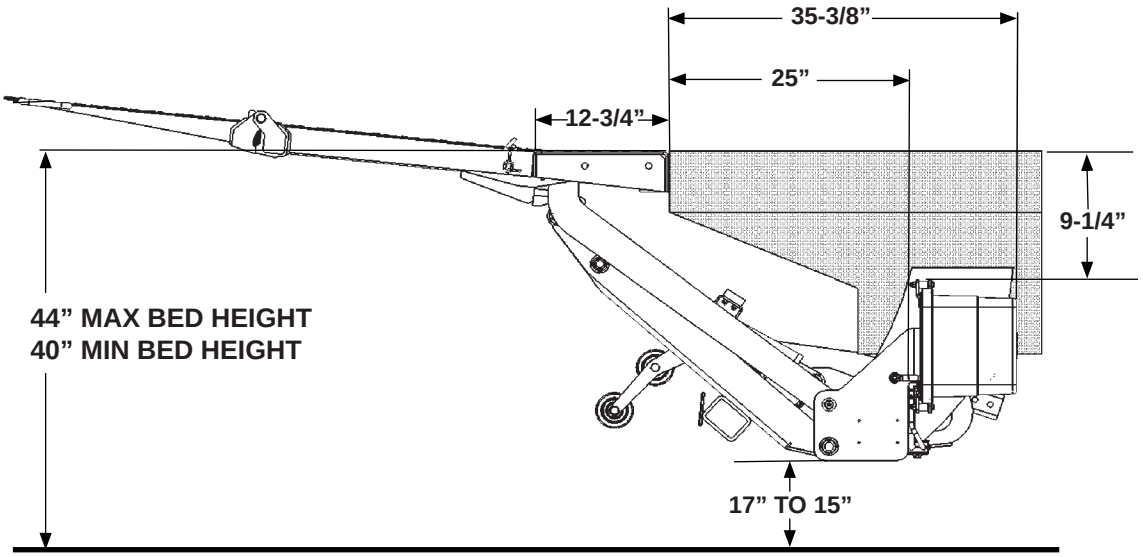
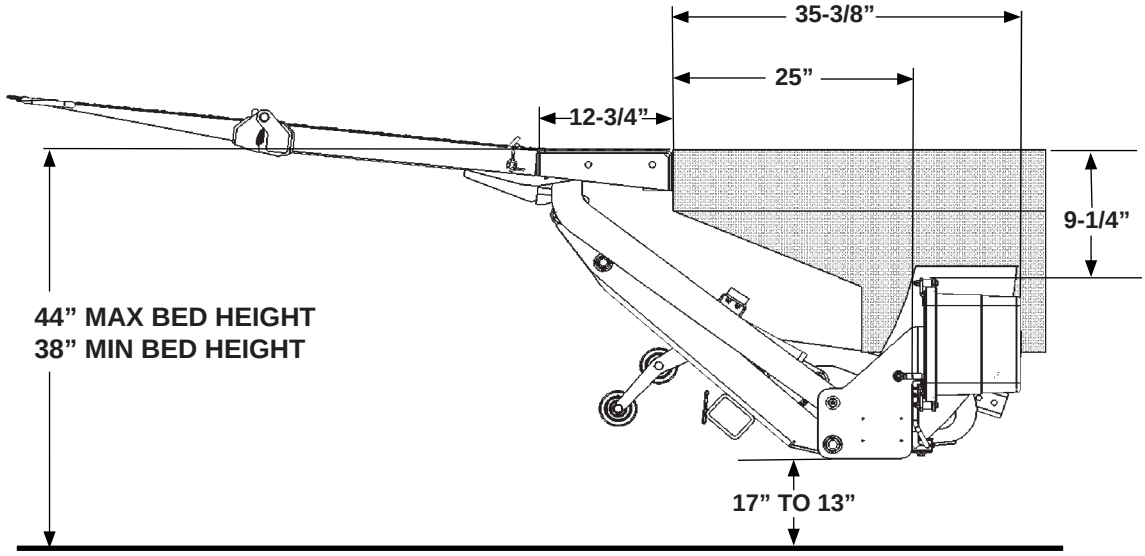
VEHICLE REQUIREMENTS - Continued



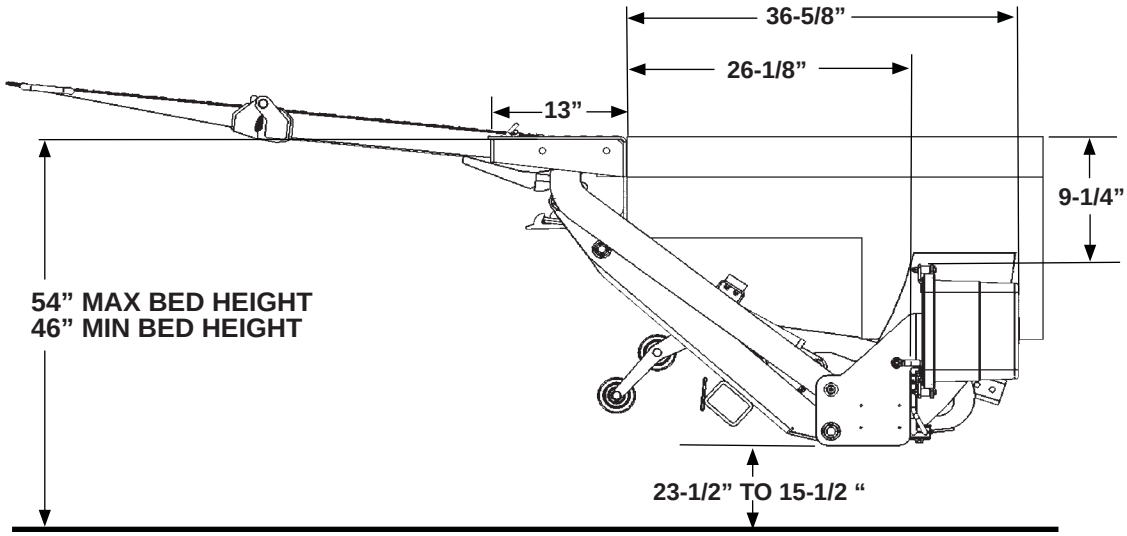
TE-33LB CLEARANCES
(44” TO 40” BED HEIGHT)
FIG. 12-1



TE-33LB CLEARANCES
(44” TO 38” BED HEIGHT)
FIG. 12-2

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

VEHICLE REQUIREMENTS - Continued



TEWR-33HB CLEARANCES
(54” TO 46” BED HEIGHT WITH WALK RAMP)
FIG. 13-1

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VEHICLE REQUIREMENTS - Continued

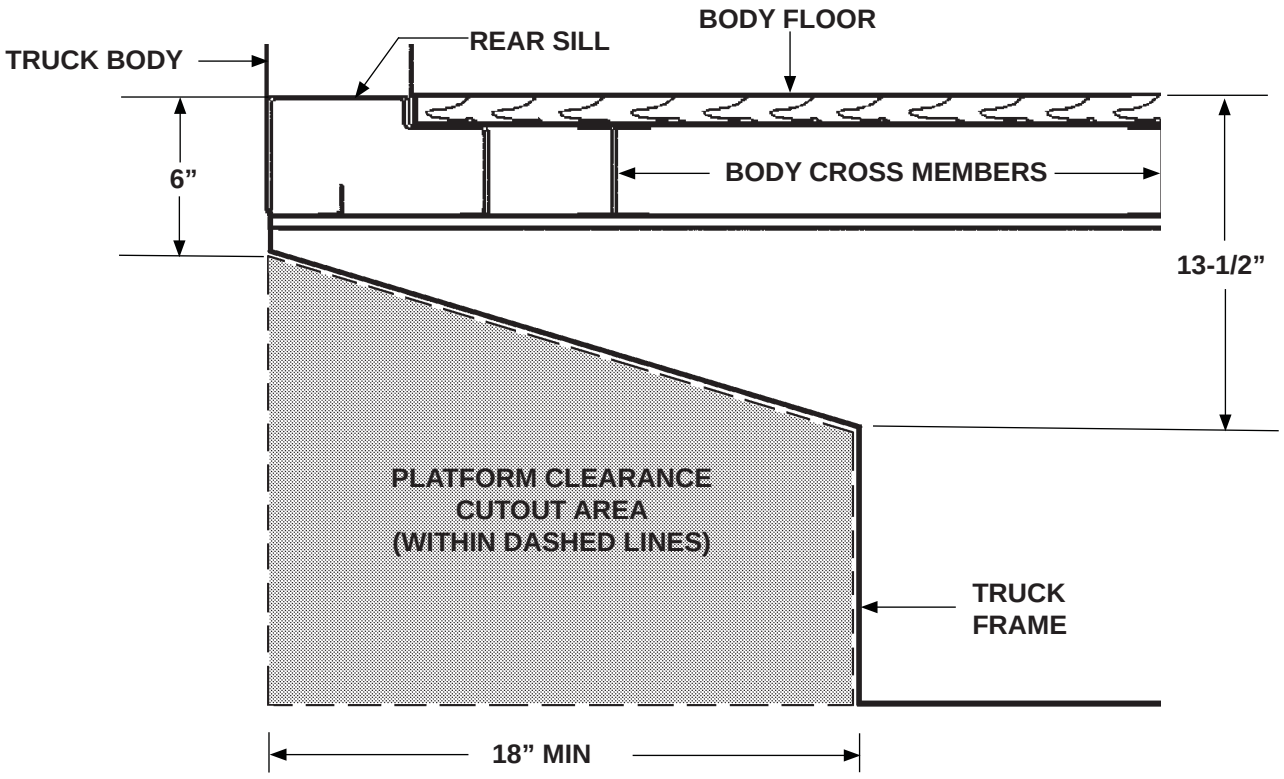
CAUTION

- **To prevent platform from being damaged, make sure vehicle frame is cut correctly. If the cutouts are incorrect, platform may hit vehicle frame or underbody when stowing the Liftgate.**
- **Installer is responsible for ensuring that vehicle body and frame modifications do not adversely affect the integrity of the body and frame.**

NOTE: The dimensions, shown in the illustration below, are maximums except as indicated.

NOTE: The platform cutout area shown below applies to trucks and trailers. If the rear sill dimension is taller than 6" it may need to be modified. Check with body manufacturer before modifying the rear sill.

2. Fit the Liftgate to vehicle body by cutting vehicle frame as shown in **FIGS. 14-1, 15-1** or **16-1**.



VEHICLE FRAME CUTOUT FOR PLATFORM CLEARANCE (54" TO 44" BED HEIGHT) (TRUCK FRAME IS SHOWN) FIG. 14-1

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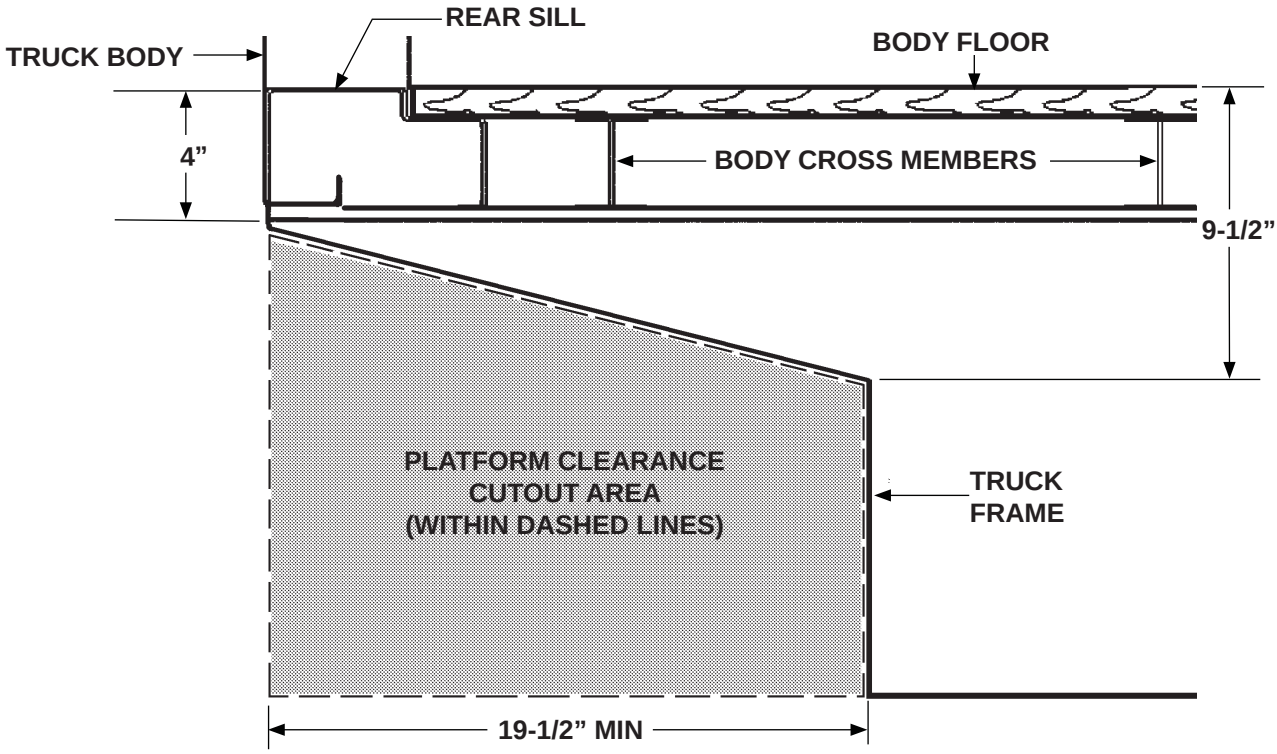
VEHICLE REQUIREMENTS - Continued

NOTE: The platform cutout area shown below applies to trucks and trailers. If the rear sill dimension is taller than 4” it may need to be modified. Check with body manufacturer before modifying the rear sill.



VEHICLE FRAME CUTOUT FOR PLATFORM CLEARANCE
(44” TO 38” BED HEIGHT & 44” TO 40” BED HEIGHT)
(TRUCK FRAME IS SHOWN)
FIG. 15-1

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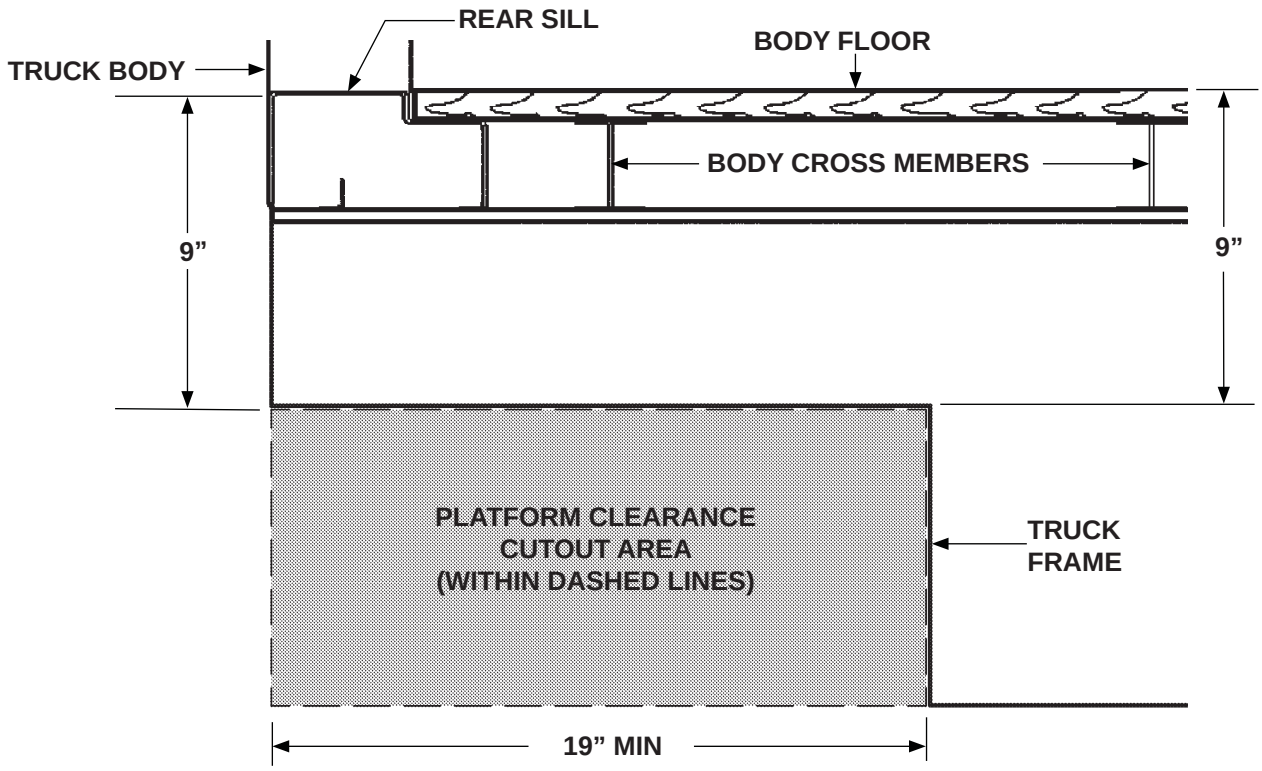
VEHICLE REQUIREMENTS - Continued

NOTE: The platform cutout area shown below applies to trucks and trailers. If the rear sill dimension is taller than 9” it may need to be modified. Check with body manufacturer before modifying the rear sill.



VEHICLE FRAME CUTOUT FOR PLATFORM CLEARANCE
(54” TO 46” BED HEIGHT WITH WALK RAMP)
(TRUCK FRAME IS SHOWN)
FIG. 16-1

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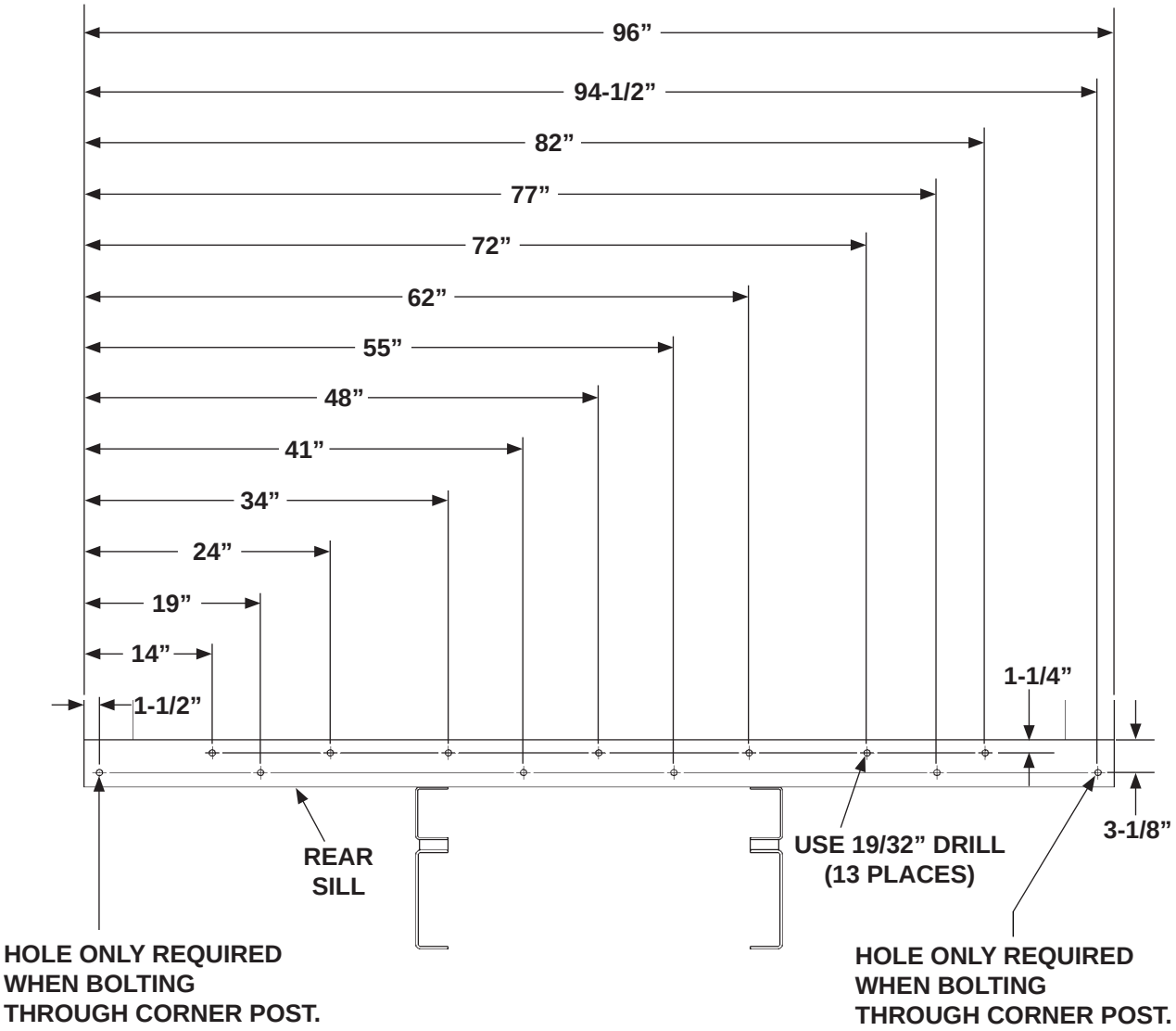
STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE

NOTE: The extension plate has pre-drilled bolt holes so it can be bolted to vehicle body. Vehicle body must be drilled according to instructions. If necessary, pre-drilled extension plate may also be welded to vehicle body. Do the following bolting or welding instructions.

BOLT EXTENSION PLATE (PRE-DRILLED)

1. Mark and drill holes into rear sill as shown in **FIGS. 17-1 and 18-1**.



REAR SILL - HOLE LOCATIONS FOR 96” WIDE VEHICLE
FIG. 17-1

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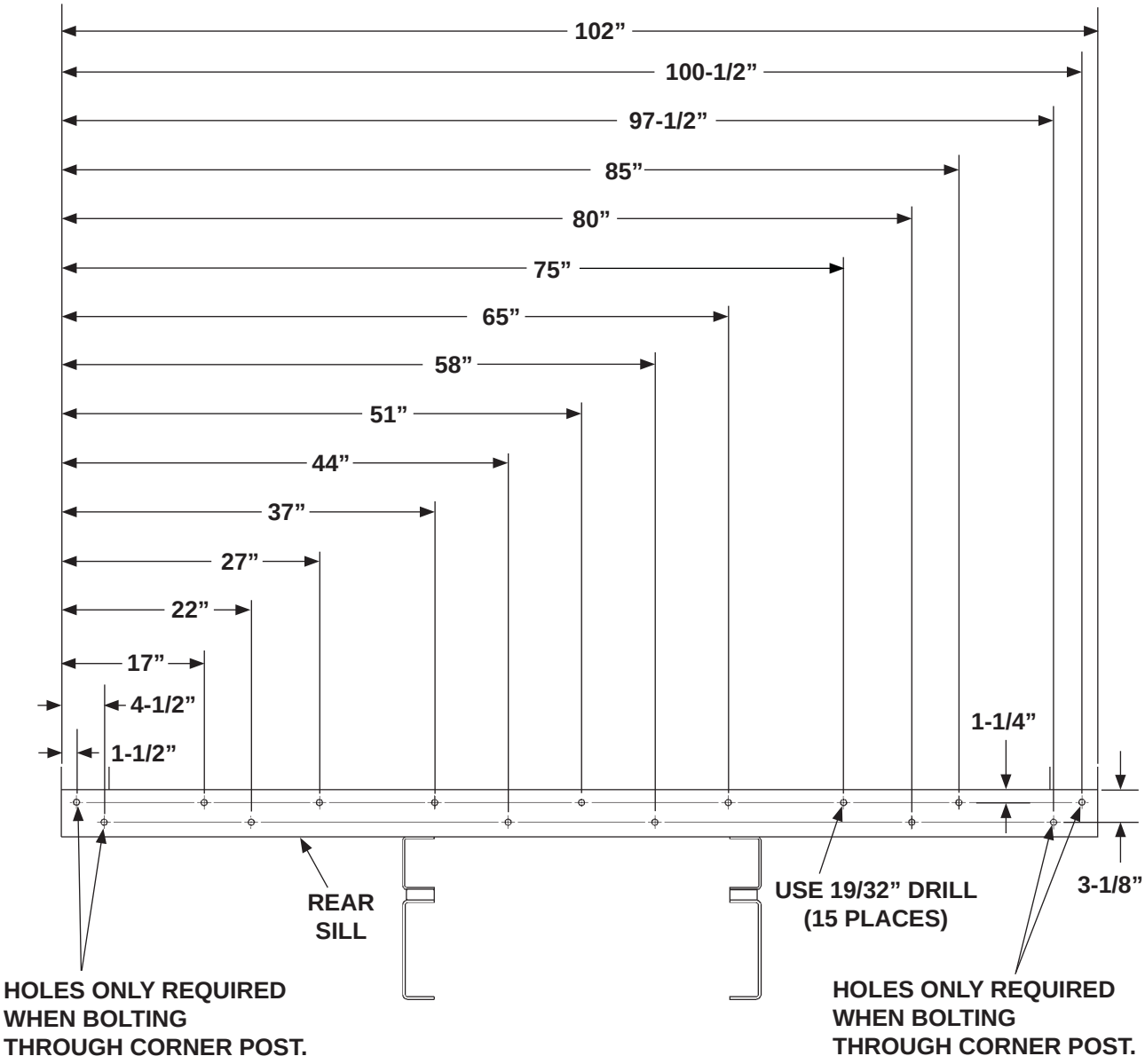
STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE - Continued



REAR SILL - HOLE LOCATIONS FOR 102” WIDE VEHICLE
FIG. 18-1

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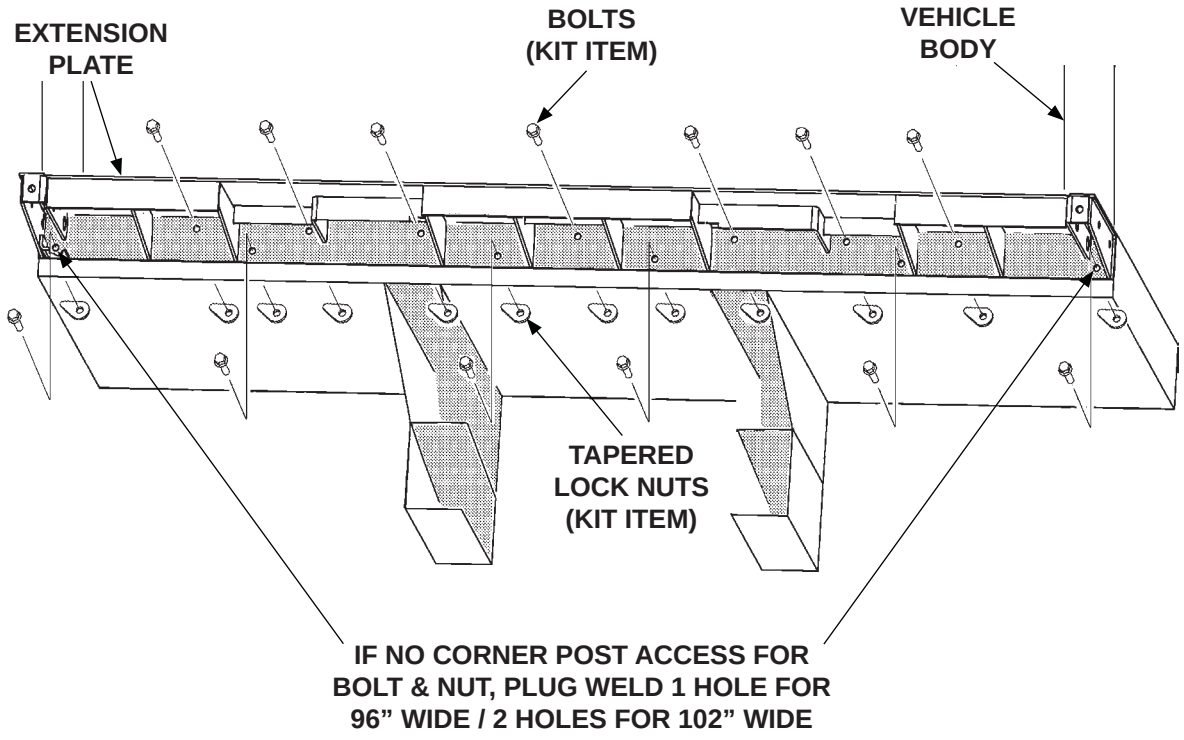
STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE - Continued

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

2. Bolt extension plate to vehicle as shown in **FIG. 19-1**. If necessary, reposition extension plate so top surface is flush with top surface of sill. Then, torque bolts and lock nuts to **105 lb.-ft**.



BOLTING EXTENSION PLATE (96” WIDE EXTENSION PLATE SHOWN)
FIG. 19-1

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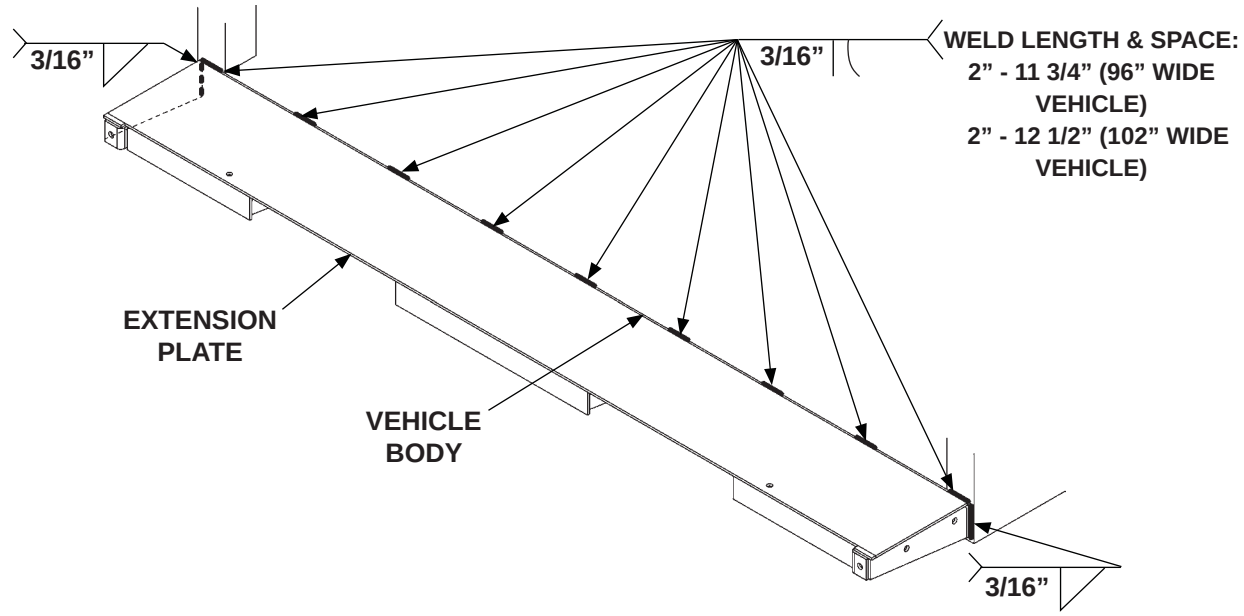
STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE - Continued

WELD EXTENSION PLATE (ALTERNATE METHOD)

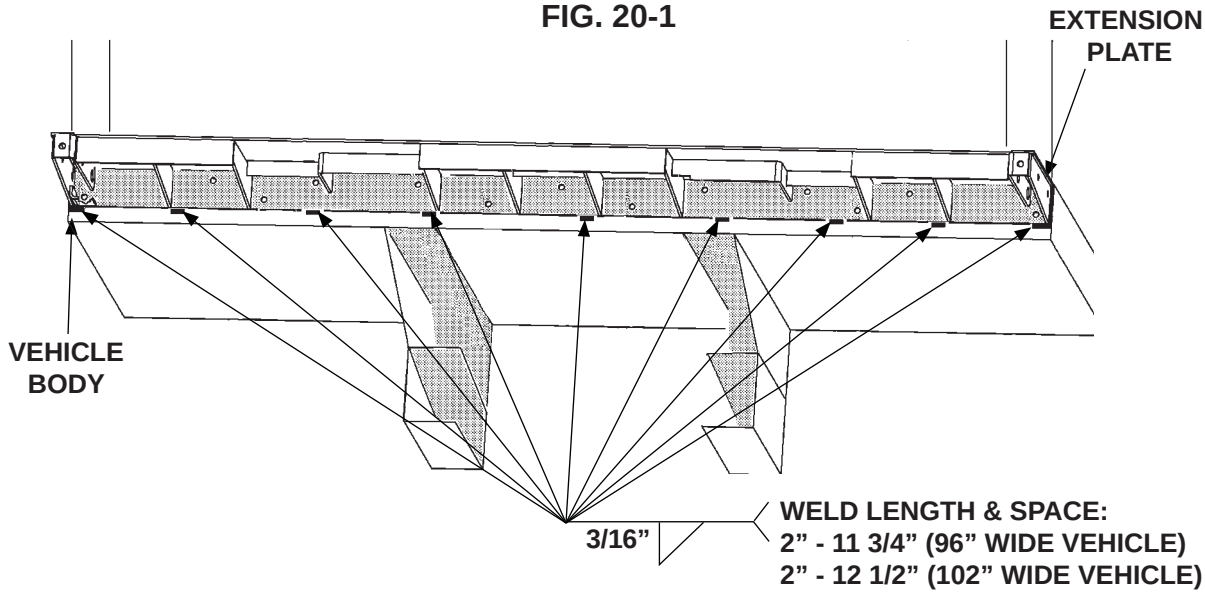
CAUTION

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

Center the extension plate on vehicle body. Before welding extension plate to vehicle body, make sure top surface of extension plate is flush with floor of vehicle body. Weld the extension plate to vehicle body sill as shown in **FIGS. 20-1 and 20-2**.



EXTENSION PLATE WELDS - VIEWED FROM ABOVE
FIG. 20-1



EXTENSION PLATE WELDS - VIEWED FROM UNDERNEATH
FIG. 20-2

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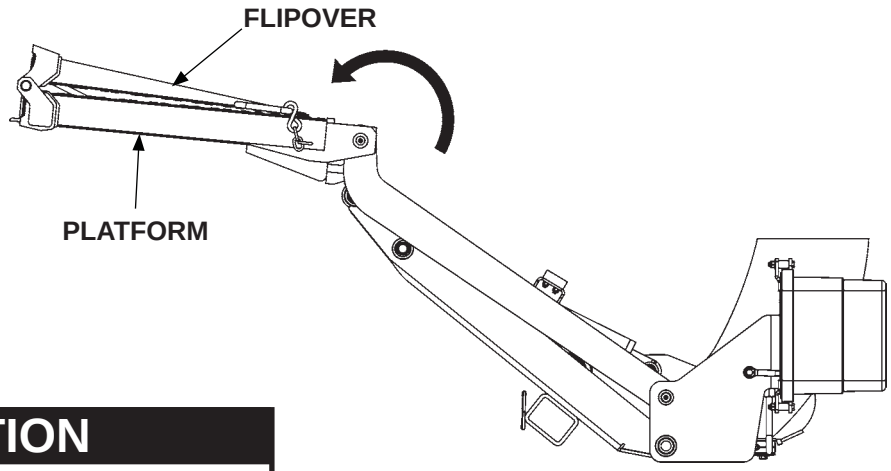
STEP 2 - WELD LIFTGATE TO VEHICLE

NOTE: Before installing the Liftgate, ensure the extension plate is attached to vehicle body.

1. Open the platform and leave the flipover unfolded **(FIG. 21-1)**.

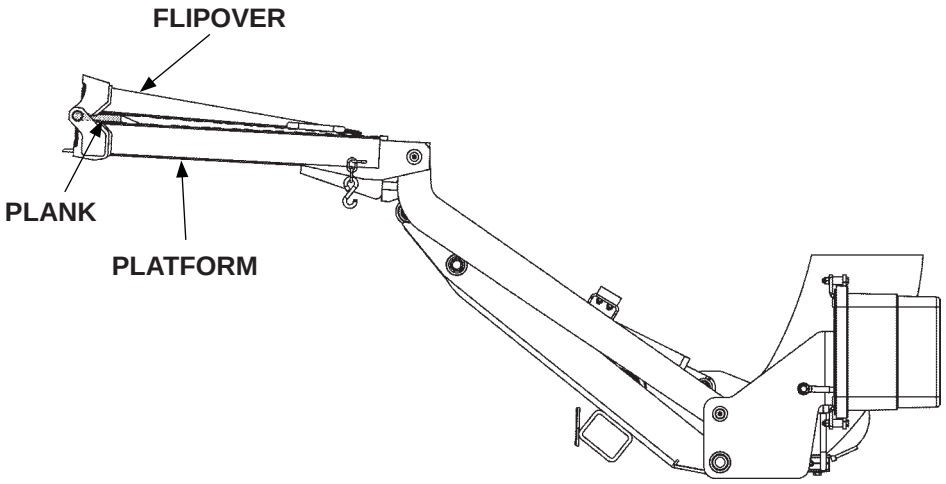


OPEN PLATFORM
FIG. 21-1

CAUTION

Platform and flipover could be damaged if liftgate is lifted incorrectly with forklift. To protect platform & flipover, place a wooden plank between folded platform and flipover, near the hinge. To protect flipover from forks, place corner protectors between flipover and each fork.

2. Cut a 6” wide x 72” long x 3/4” thick wooden plank. Insert between folded platform and flipover as shown in **FIG. 21-2**.



WOODEN PLANK INSERTED BETWEEN PLATFORM & FLIPOVER
FIG. 21-2

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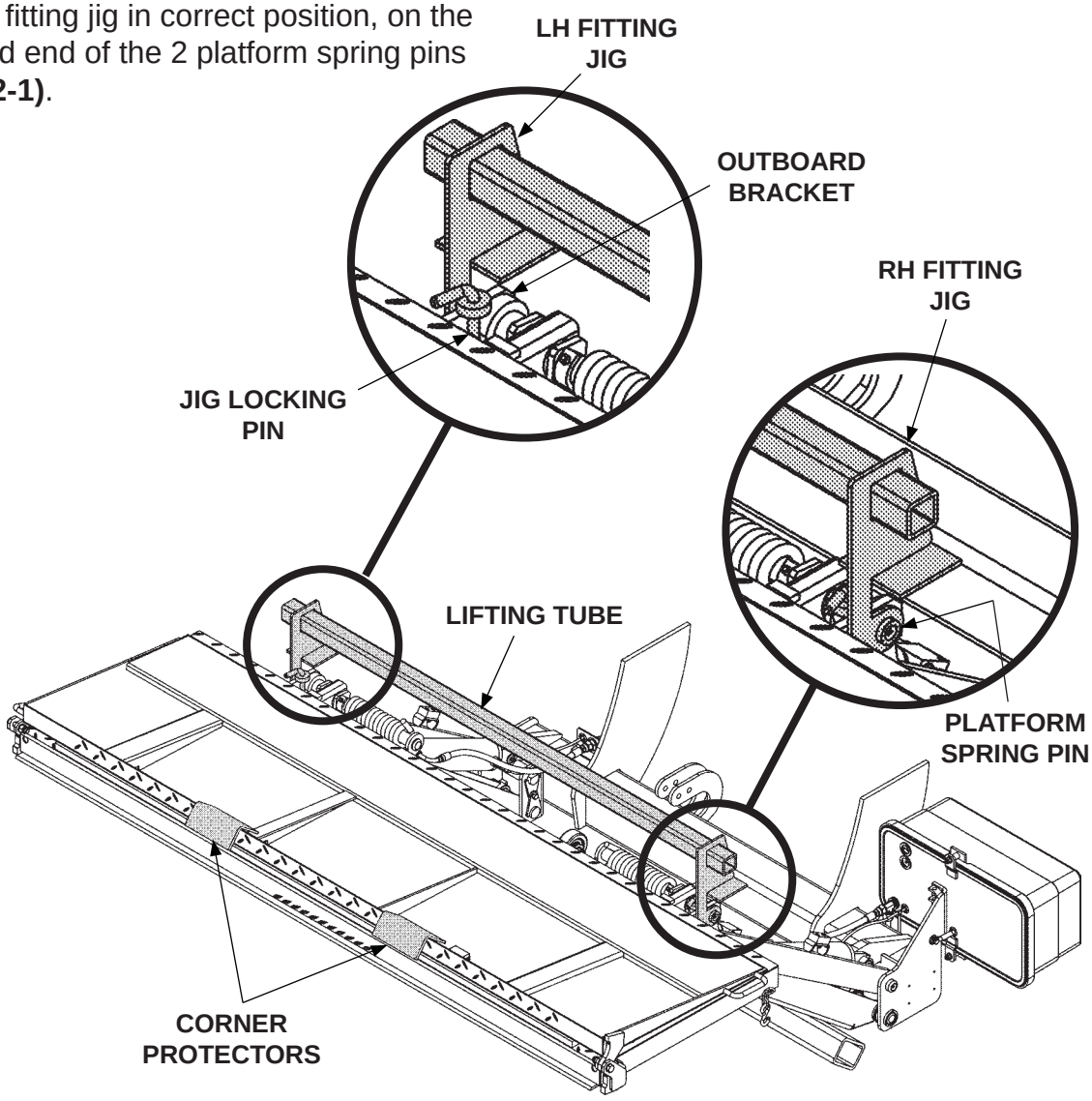
STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

NOTE: Fitting jigs are in correct position if:
- Placed on outboard end of each torsion spring pin
- Locking pin on jig faces inboard and captures outboard bracket on platform.
- Bottom of jig catches heel of platform
- Jig stays in position with little movement

3. Place a fitting jig in correct position, on the outboard end of the 2 platform spring pins **(FIG. 22-1)**.



LIFTGATE WITH FITTING JIGS & LIFTING TUBE
FIG. 22-1

4. Fabricate 64” long lifting tube from 2” X 2” X 1/4” thick, square Grade B steel tubing **(FIG. 22-1)**.

5. Insert 64” long lifting tube through openings in fitting jigs **(FIG. 22-1)**. Position tube so equal lengths extend from outboard side of LH & RH jigs.

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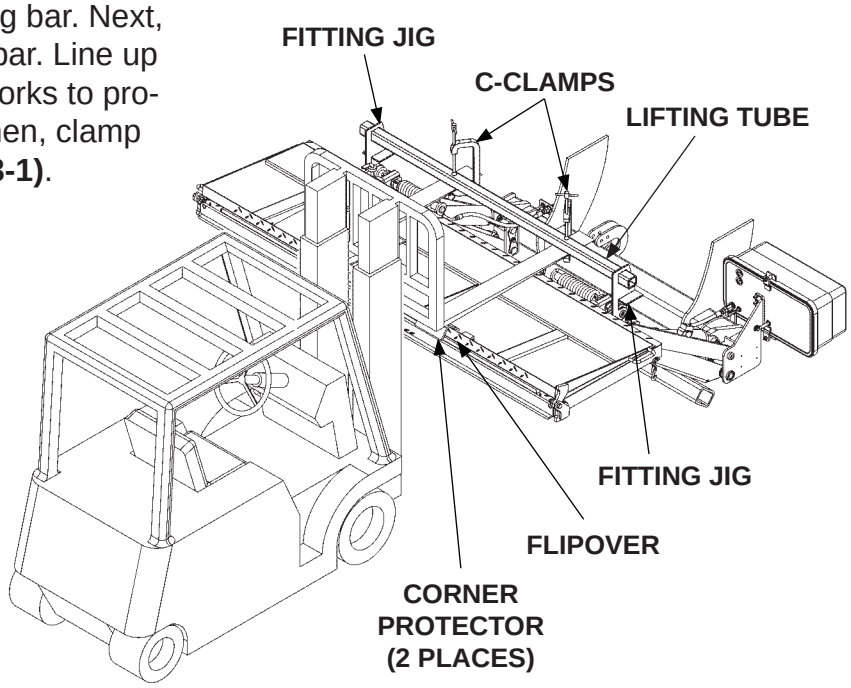
STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

NOTE: If using forklift to position Liftgate, see **Instructions 6-10**. If using hoist to position Liftgate, see **Instructions 11-14**.

POSITIONING WITH FORKLIFT

6. To use use forklift to handle Liftgate, raise forks to height of lifting bar. Next, position forks under lifting bar. Line up corner protectors with the forks to protect flipover **(FIG. 23-1)**. Then, clamp lifting tube to forks **(FIG. 23-1)**.



POSITIONING THE LIFTGATE
FIG. 23-1

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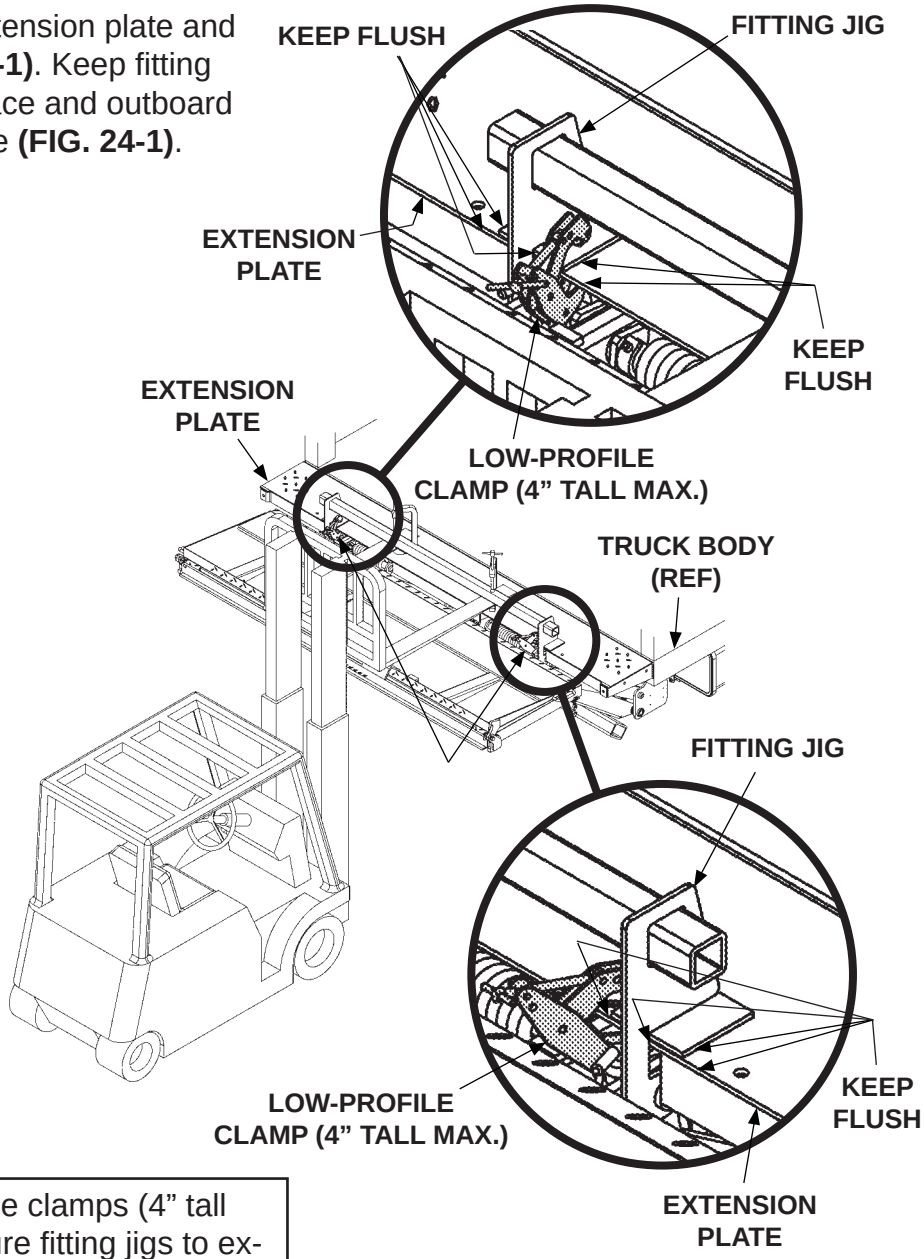
STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

7. Position Liftgate on extension plate and vehicle frame **(FIG. 24-1)**. Keep fitting jigs flush with top surface and outboard edge of extension plate **(FIG. 24-1)**.



LIFTGATE POSITIONED & CLAMPED TO EXTENSION PLATE FIG. 24-1

NOTE: Use low-profile clamps (4" tall max.) to secure fitting jigs to extension plate. Taller clamps will not fit under lifting tube.

8. Clamp inboard flange of the 2 fitting jigs to extension plate as shown in **FIG. 24-1**.

Ensure:

- Both fitting jigs fit snug against the extension plate and platform.
- Liftgate is centered on the vehicle frame within the opening on the extension plate.

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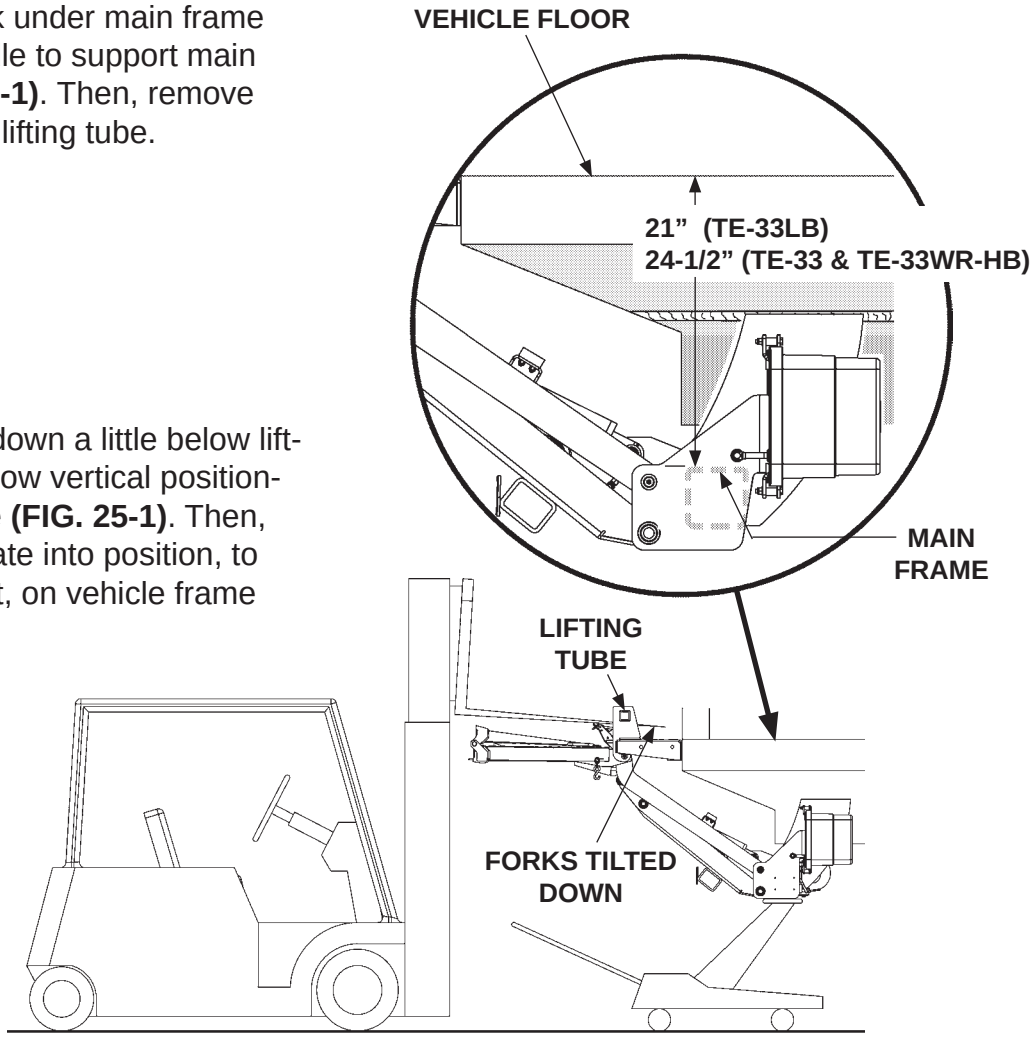
STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

⚠ WARNING

Before forklift is unclamped from lifting tube, ensure fitting jigs are securely clamped to liftgate and extension plate, and liftgate is supported by jack with sufficient lifting capacity. Injury and equipment damage can result if Liftgate is incorrectly supported and not secured to extention plate.

9. Place floor jack under main frame and raise saddle to support main frame **(FIG. 25-1)**. Then, remove c-clamps from lifting tube.

10. Tilt the forks down a little below lifting tube to allow vertical positioning of Liftgate **(FIG. 25-1)**. Then, jack the Liftgate into position, to correct height, on vehicle frame **(FIG. 25-1)**.



FLOOR JACK SUPPORTING LIFTGATE
FIG. 25-1

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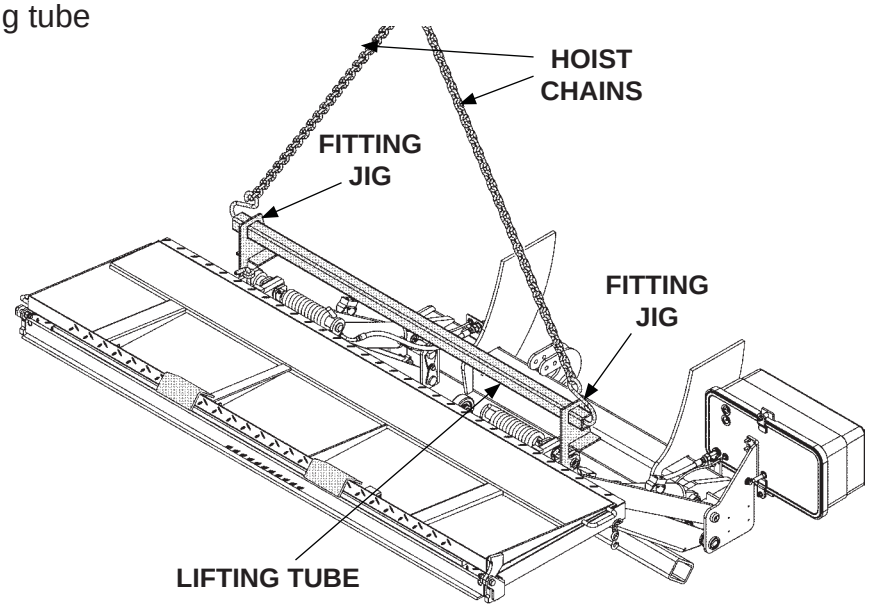
STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

NOTE: A hoist can also be used, to position the Liftgate, by attaching chains to lifting tube.

POSITIONING WITH HOIST

11. To use hoist to handle Liftgate, hook chains to the ends of lifting tube **(FIG. 26-1)**.



HOISTING LIFTGATE WITH CHAINS
FIG. 26-1

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STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

⚠ WARNING

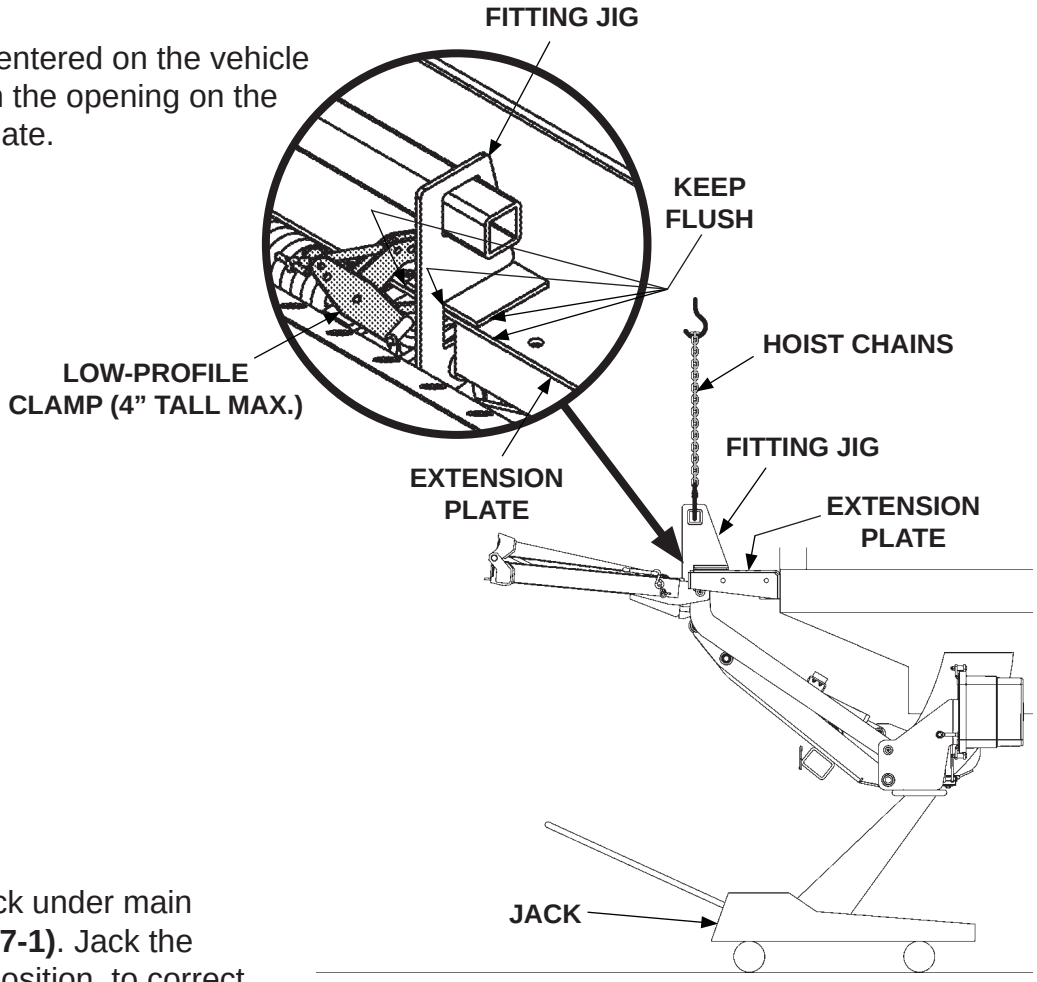
When positioning Liftgate, ensure fitting jigs are securely clamped to liftgate and extension plate, and liftgate is supported by jack with sufficient lifting capacity. Injury and equipment damage can result if Liftgate is incorrectly supported and not secured to extention plate.

NOTE: Use 4” low-profile clamps to secure fitting jigs to extension plate. There is not enough clearance for taller clamps.

12. Hoist Liftgate in position on vehicle. Then, clamp inboard flange of the 2 fitting jigs to extension plate as shown in **FIG. 27-1**.

Ensure:

- Both fitting jigs fit snug against the extension plate and platform.
- Liftgate is centered on the vehicle frame within the opening on the extension plate.



POSITIONING LIFTGATE WITH HOIST & JACK
FIG. 27-1

13. Place floor jack under main frame **(FIG. 27-1)**. Jack the Liftgate into position, to correct height, on vehicle frame. Make sure fitting jigs stay flush with the extension plate surfaces **(FIG. 27-1)**.

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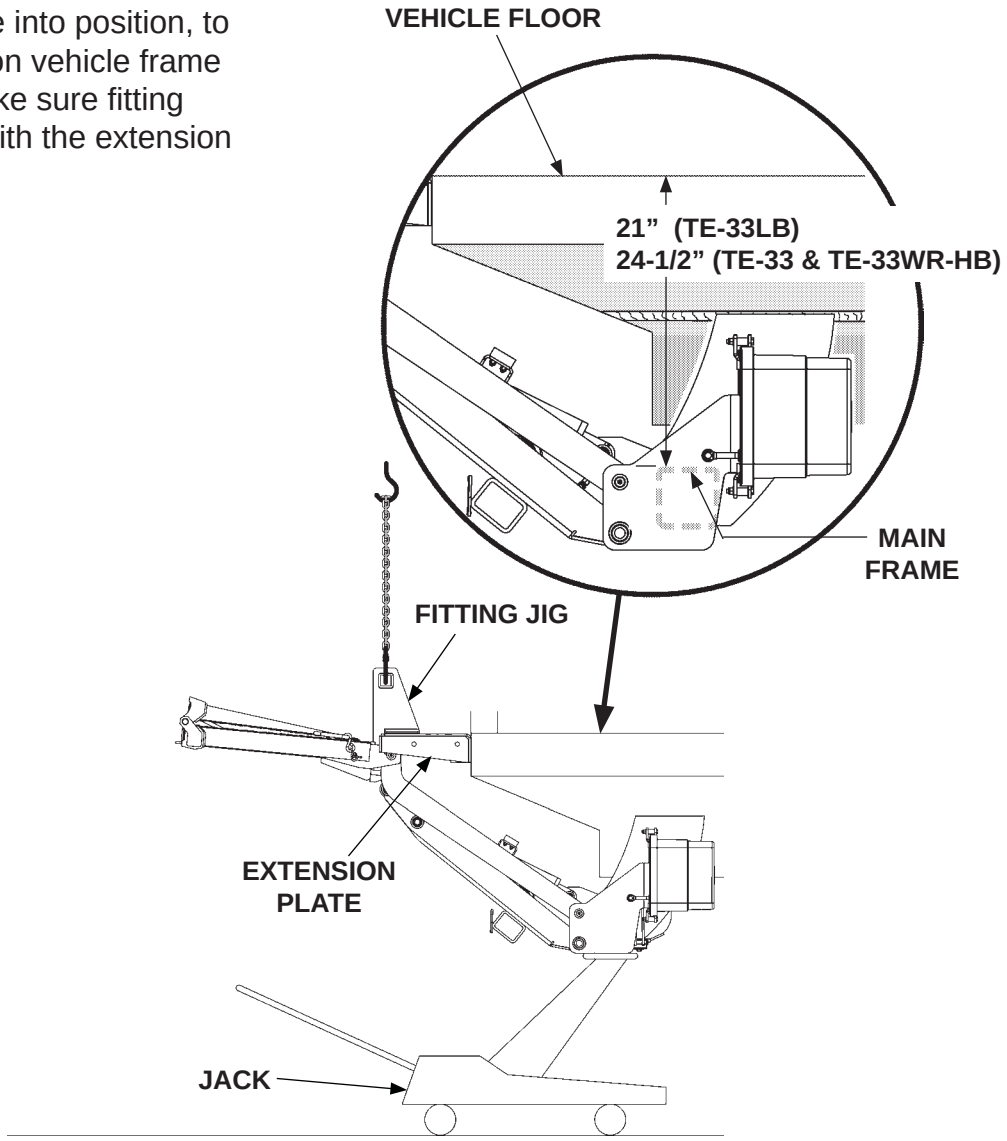
STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

14. Jack the Liftgate into position, to correct height, on vehicle frame **(FIG. 28-1)**. Make sure fitting jigs stay flush with the extension plate surfaces.



POSITIONING LIFTGATE WITH HOIST & JACK
FIG. 28-1

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STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

⚠ WARNING

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

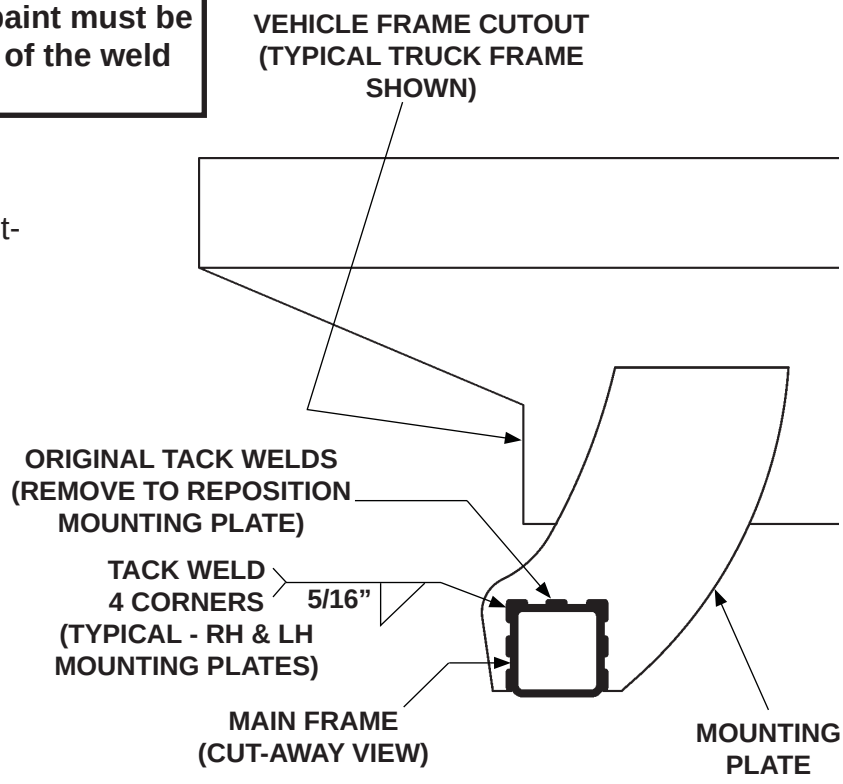
CAUTION

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

CAUTION

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

15. Check if both mounting plates line up with the vehicle frame. If the mounting plates do not line up, remove the tack welds from one mounting plate **(FIG. 29-1)**. Make sure Liftgate stays centered on vehicle. Reposition the mounting plate against vehicle frame. Tack weld four corners with 1’’ long weld as shown in **FIG. 29-1**. Repeat for second mounting plate (reposition and tack weld).



REPOSITIONING MOUNTING PLATE
(RH SIDE SHOWN)
FIG. 29-1

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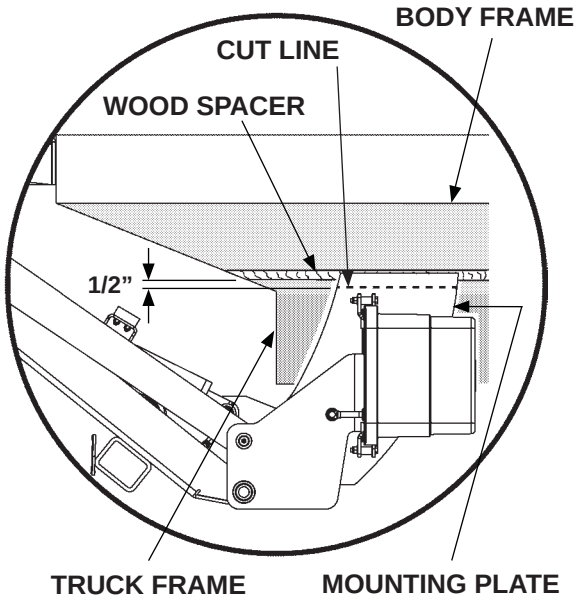
STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

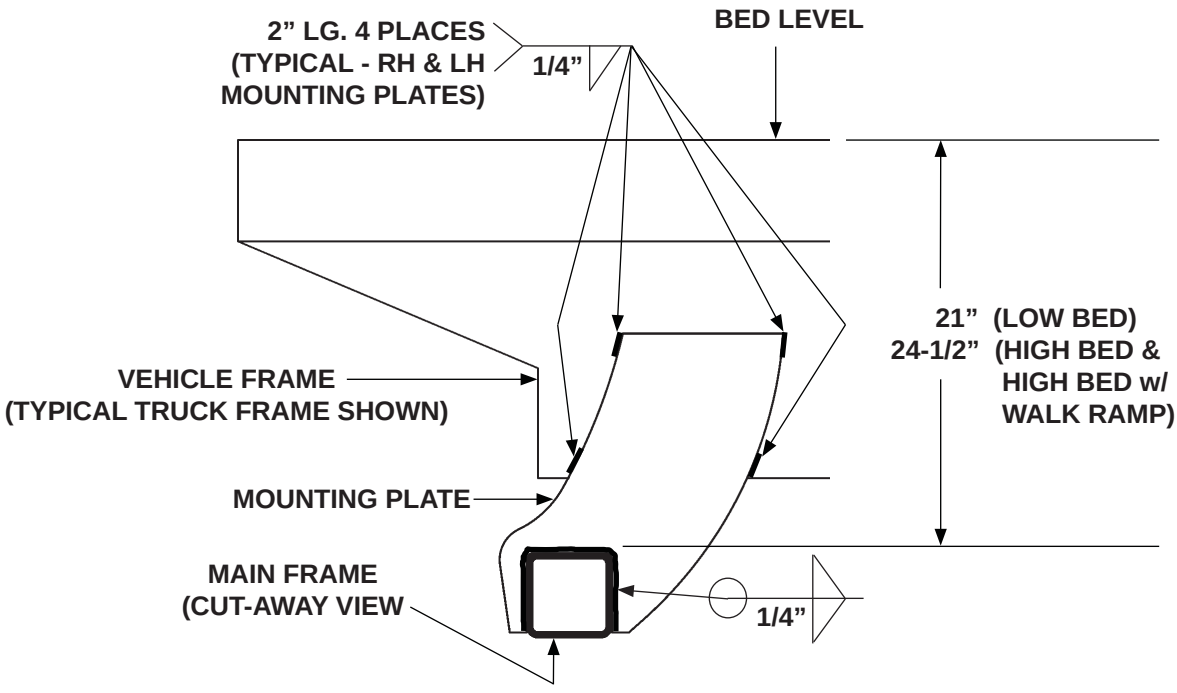
NOTE: If mounting plates cross over the wood spacer on the truck frame or if there is interference with bottom of body frame, mounting plates must be shortened to allow full final weld **(FIG. 30-1)**. Maintain dimension, from bed level to top of main frame, shown in **FIG. 30-2**.

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

16. Clamp both mounting plates to vehicle frame. Check the distance between bed level and top of main frame. Maintain the 21"(low bed height) or 24-1/2" (high bed height) distance shown in **FIG. 30-2**. Weld the mounting plates to vehicle frame as shown in **FIG. 30-2**. Next, weld both mounting plates to main frame **(FIG. 30-2)**. Remove clamps.



CHECKING MOUNTING PLATES FOR CORRECT POSITION ON TRUCK FRAME
FIG. 30-1



WELD TO VEHICLE FRAME AND MAIN FRAME (RH SIDE SHOWN)
FIG. 30-2

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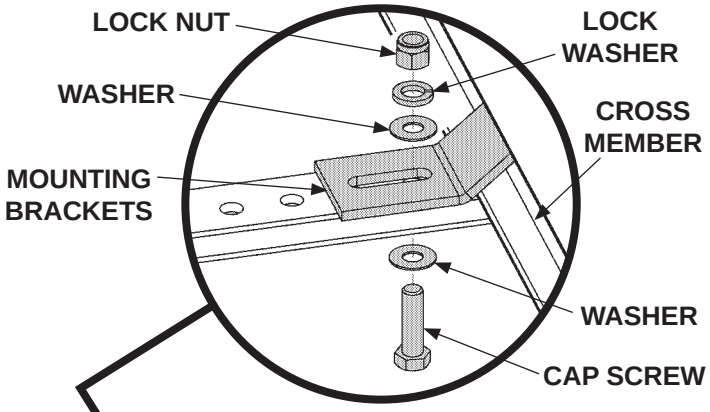
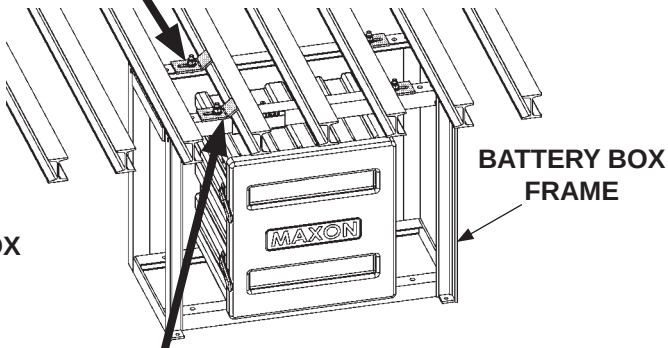
STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED)

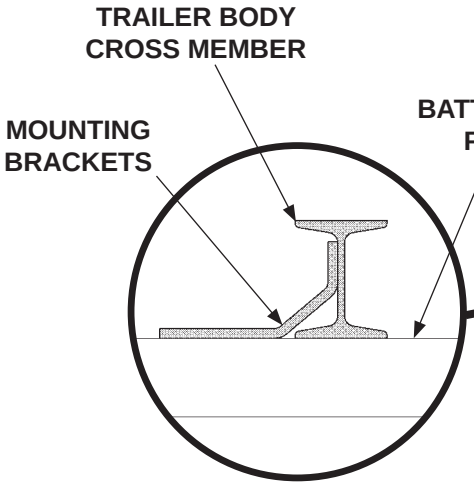
1. Select holes on top of battery box frame to align mounting brackets flush to cross members. Refer to **FIGS. 31-1A & 31-1B** for trailers and **FIG. 31-2** for trucks. Bolt mounting brackets to battery box frame as shown in **FIG. 31-1C**. Torque each bolt and lock nut to **85-128 lb-ft**.



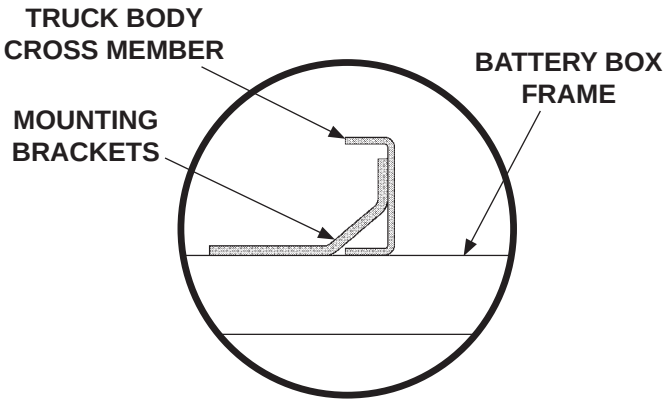
BOLTING BRACKETS (8 PLACES) FIG. 31-1C



ALIGNING BATTERY BOX FRAME (TRAILER SHOWN) FIG. 31-1A



FLUSH BRACKETS FOR TRAILERS (8 PLACES) FIG. 31-1B



FLUSH BRACKETS FOR TRUCKS (8 PLACES) FIG. 31-2

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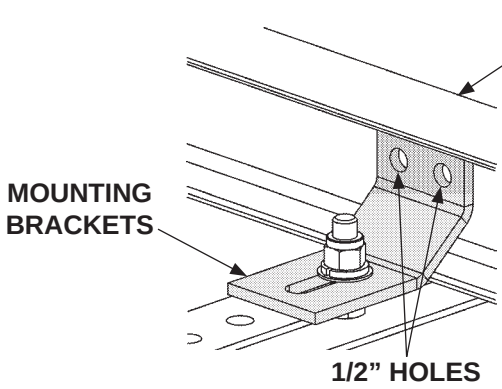
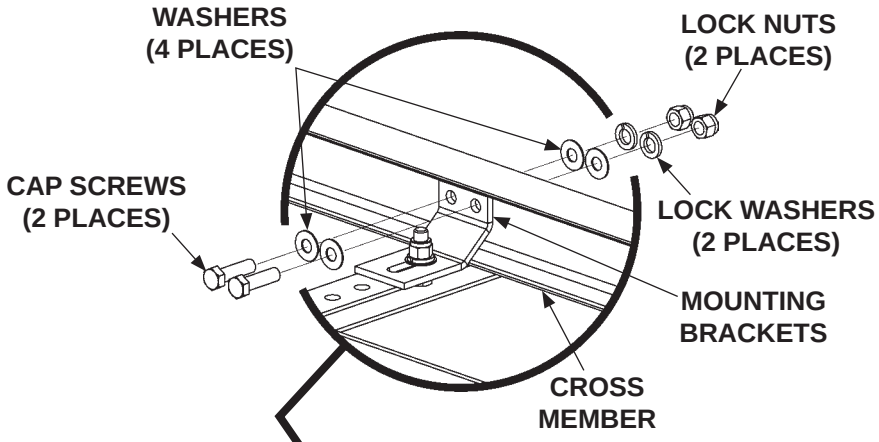
STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

NOTE: If welding mounting brackets to cross members, skip instruction **2**.

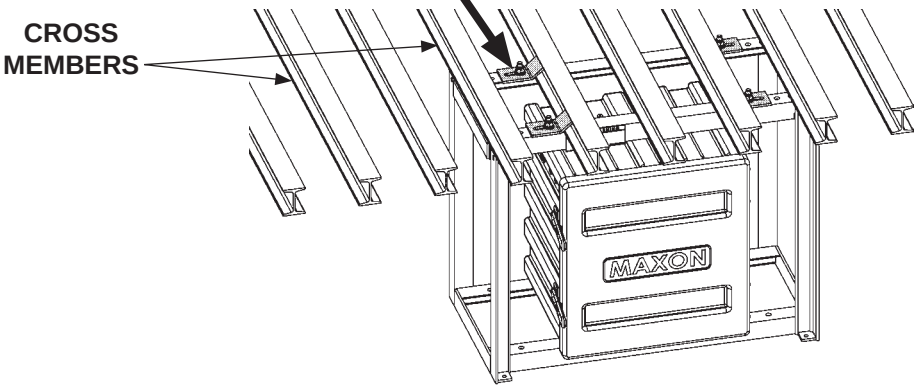
2. Using mounting brackets as a template mark and drill holes through cross members **(FIG. 32-1)**. Bolt mounting brackets to cross members as shown in **FIGS. 32-2A and 32-2B**. Torque bolts and lock nuts to **85-128 lb-ft**.



MARK AND DRILL
FIG. 32-1



BOLTING BRACKETS
(8 PLACES)
FIG. 32-2B



BOLTING BATTERY BOX FRAME
FIG. 32-2A

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

⚠ WARNING

Recommended practices for welding on steel parts are contained in the current AWS (American Welding Society) D1.1 Structural Welding Code - Steel. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.

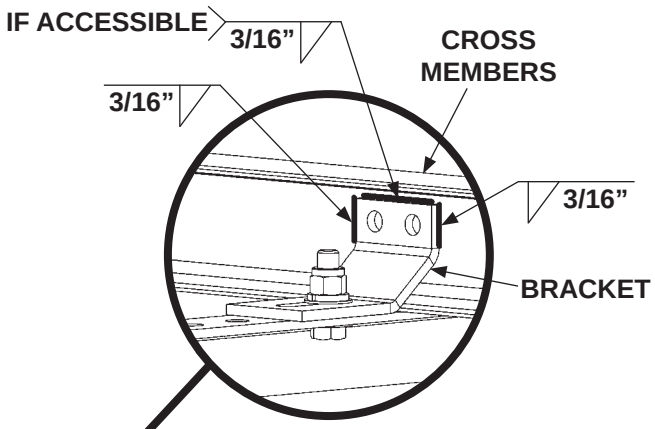
CAUTION

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

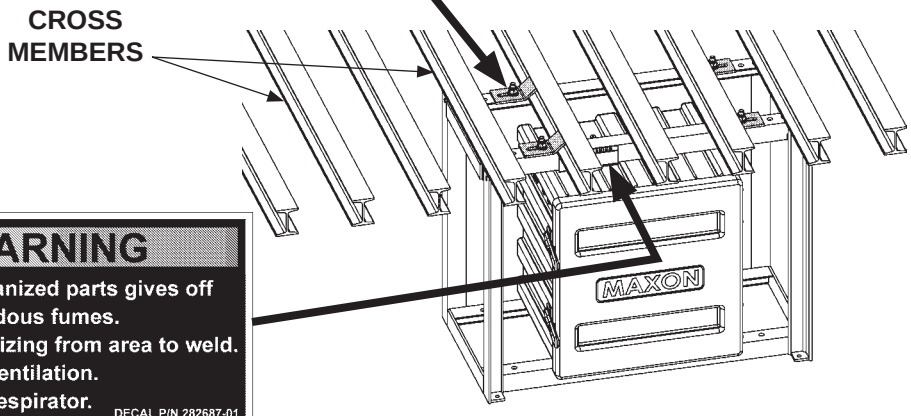
CAUTION

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

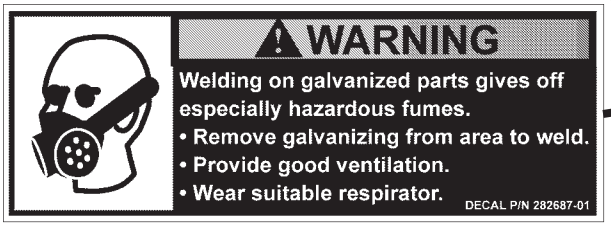
3. For galvanized frame, read warning decal shown in **FIGS. 33-1A and FIGS. 33-1B** before welding. Weld each bracket to cross members as shown in **FIGS. 33-1A and 33-1C**. Weld top of bracket if accessible.



WELDING BRACKETS (8 PLACES) FIG. 33-1C



BOLTING PUMP & BATTERY BOX FRAME FIG. 33-1A



WELDING GALVANIZED, WARNING DECAL FIG. 33-1B

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

⚠ WARNING

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

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

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

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

4. Connect battery cables, fused cables, and ground cables as shown in **FIG. 34-1**.

ELECTRICAL COMPONENTS - BATTERY BOX

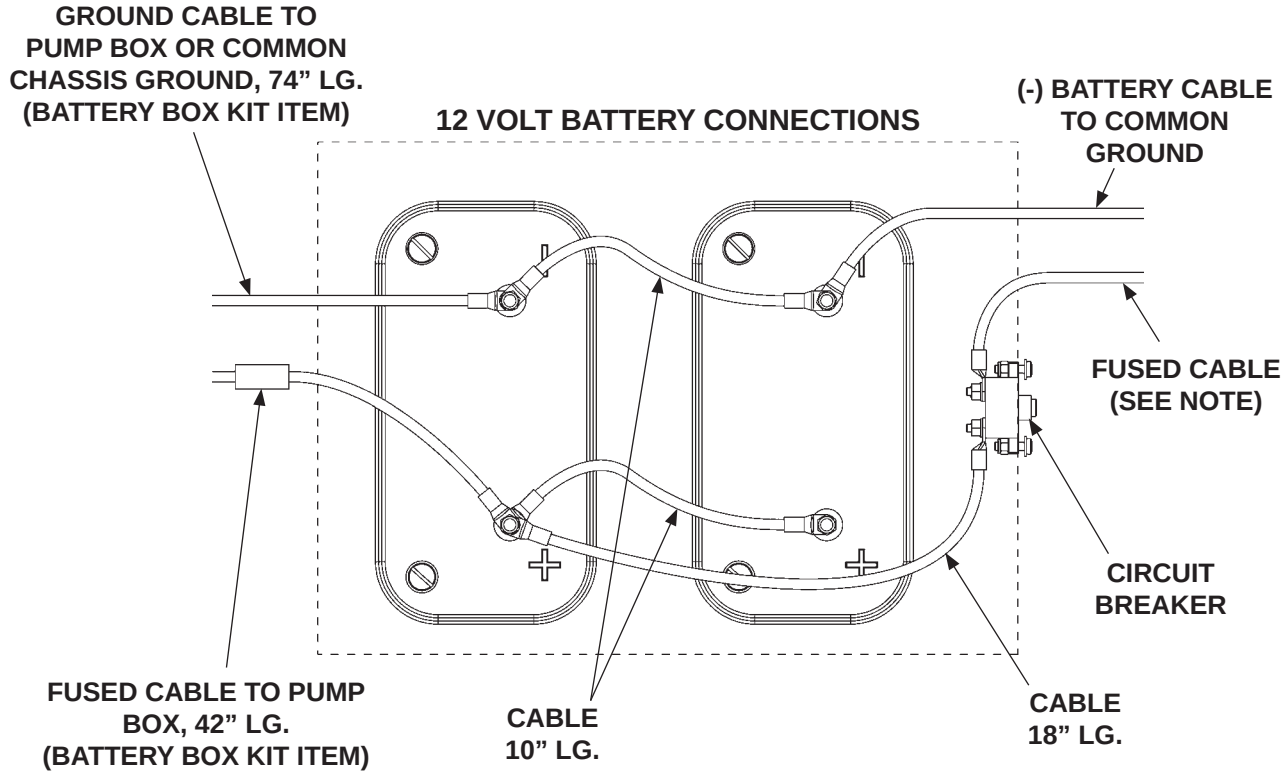

FIG. 34-1

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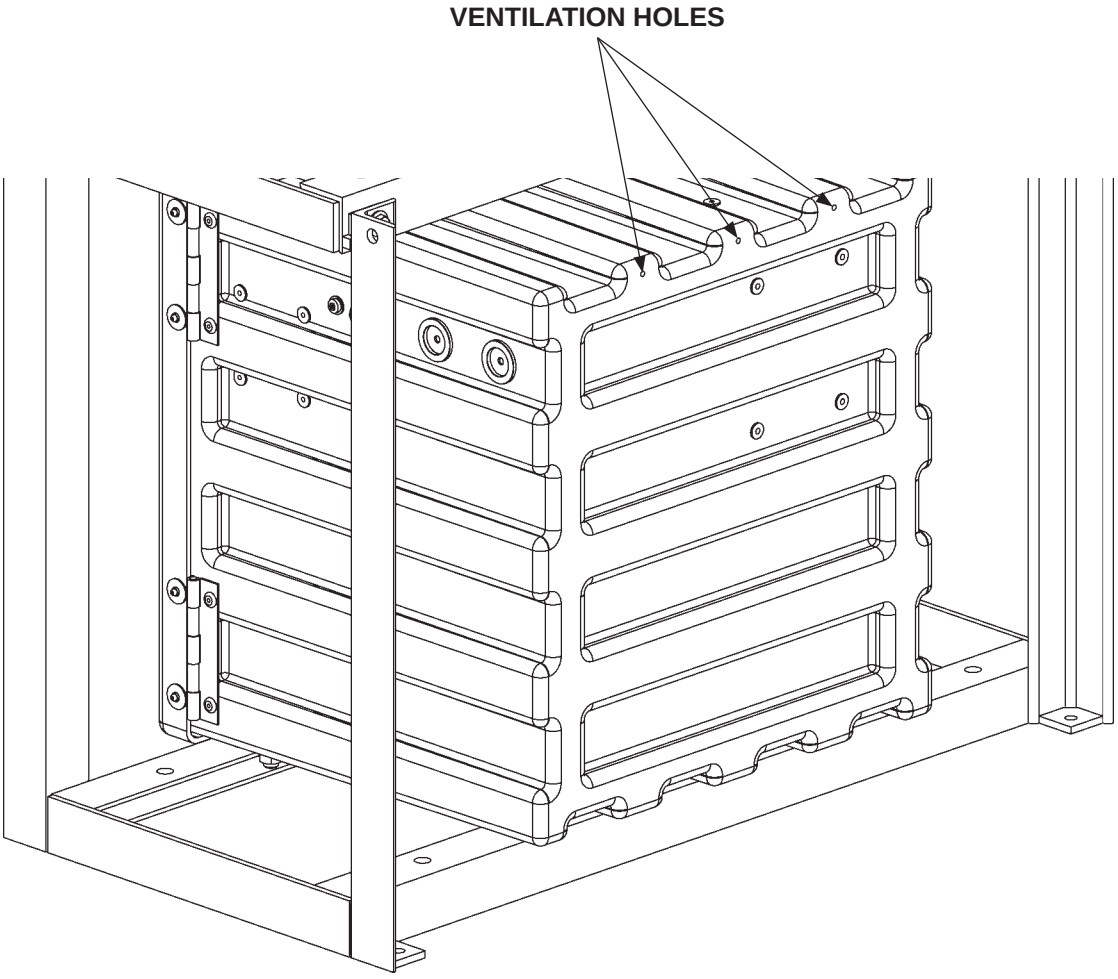
STEP 3 - ATTACH OPTIONAL BATTERY BOX & FRAME TO VEHICLE (IF EQUIPPED) - Continued

⚠ WARNING

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



BATTERY BOX ASSEMBLY
(REAR VIEW SHOWN)
FIG. 35-1

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

BATTERY BOX ASSEMBLY

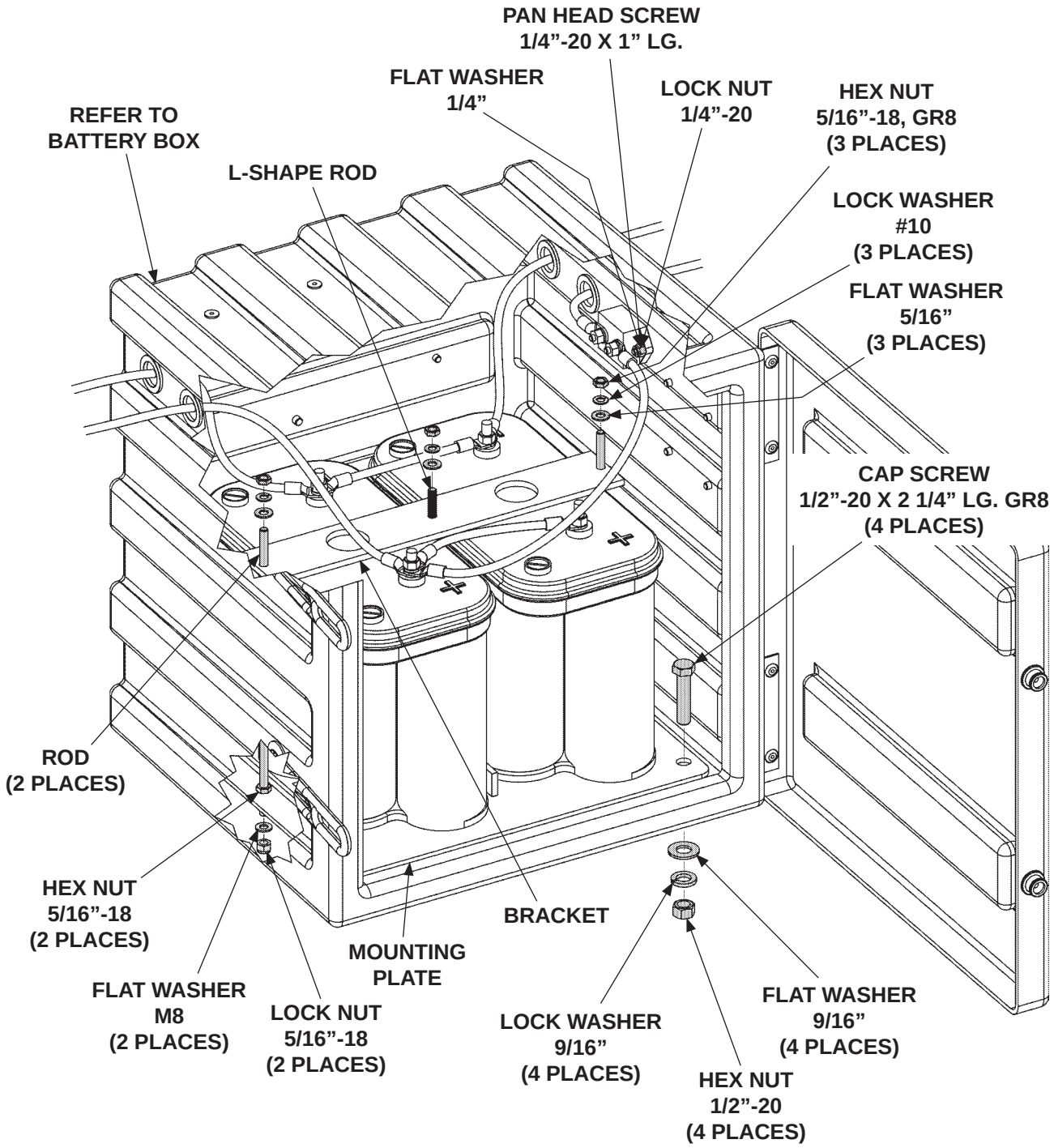

FIG. 36-1

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STEP 4 - 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 to prevent damage to any fuel lines, vent lines, brake lines or wires.

NOTE: Make sure cable is long enough to reach positive terminal on Liftgate pump box without putting tension on the cable.

Install vehicle charge line by running the line along the inside of vehicle frame **(FIG. 37-1)**. Make sure **175 amp fuse (FIG. 37-1)** end of cable is by the battery. Run the charge line from vehicle battery to Liftgate pump box positive terminal. Use frame clips (parts box item) and plastic ties (as required) from charge line kit to secure cable.

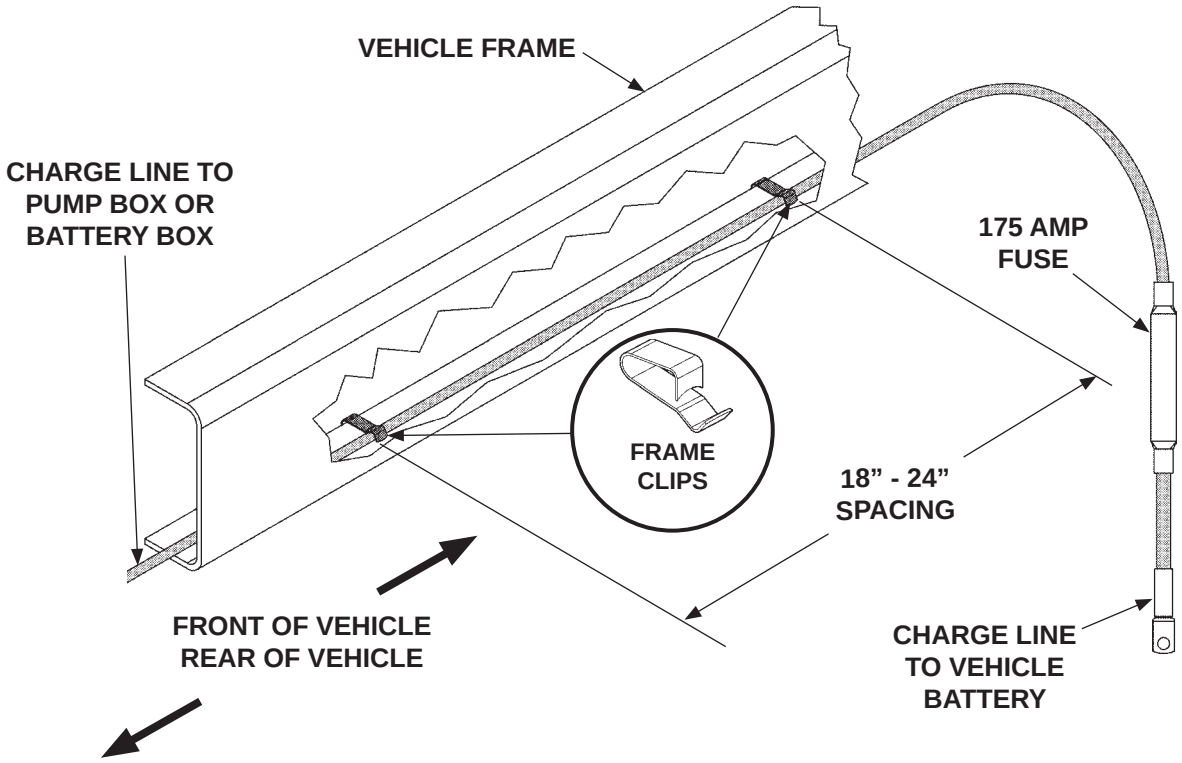

FIG. 37-1

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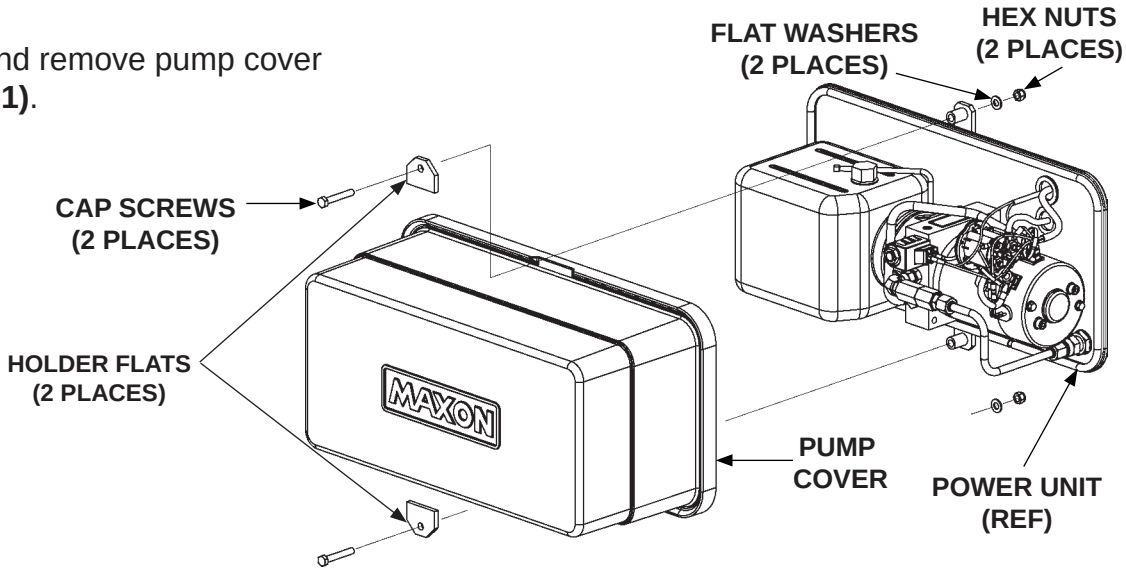
STEP 5 - CONNECT POWER CABLE

1. Unbolt and remove pump cover **(FIG. 38-1)**.



UNBOLTING PUMP COVER
FIG. 38-1

2. On the bare wire end of fused power cable, keep enough length to attach copper terminal lug and reach motor solenoid without putting tension on cable (after connection) **(FIG. 38-2A)**. Cut excess cable from bare wire end of cable. Put heatshrink tubing (parts bag item) **(FIG. 38-2B)** on the end of the cable and leave room for terminal lug. Crimp copper terminal lug (parts bag item) on the fused power cable and shrink the heatshrink tubing **(FIG. 38-2C)**.

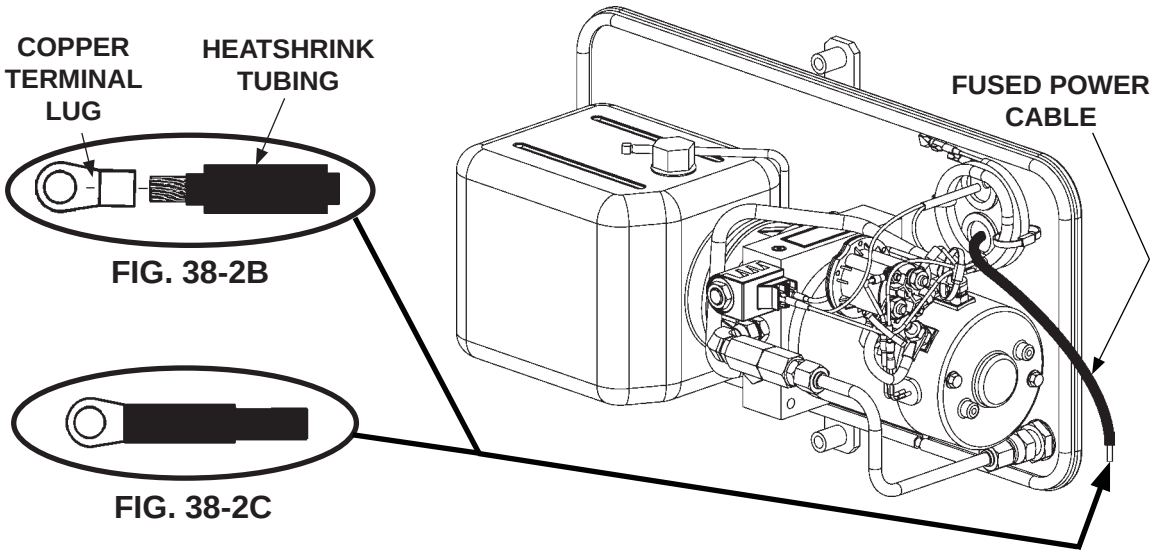


FIG. 38-2B

FIG. 38-2C

TYPICAL FUSED POWER CABLE ROUTING
FIG. 38-2A

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STEP 5 - CONNECT POWER CABLE - Continued

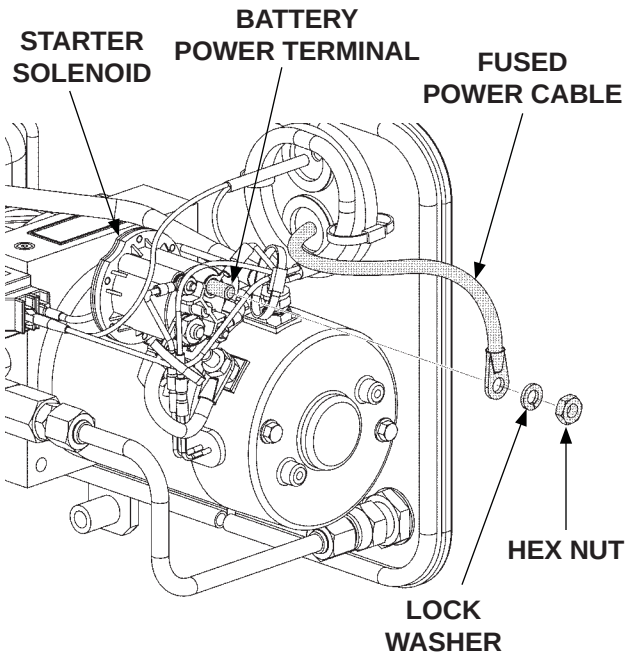
CAUTION

Do not over-tighten the terminal nuts on starter solenoid. For the load terminals, torque nuts to 60 lb.-in. max.

NOTE: MAXON recommends using dielectric grease on all electrical connections. Do not apply dielectric grease until after connection is complete.

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

3. Remove hex nut and lock washer from battery power terminal on the starter solenoid. Connect the fused power cable to the battery power terminal as shown in **FIG. 39-1**. Reinstall and tighten lock washer and hex nut.



TYPICAL FUSED POWER CABLE ELECTRICAL CONNECTION FIG. 39-1

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STEP 6 - INSTALL CONTROL SWITCH

1. Drill one 3/4“ hole and two #21–size holes in the vertical post on curb side of vehicle body as shown in **FIG. 40-1A**. Use template shown in **FIG. 40-1B**.

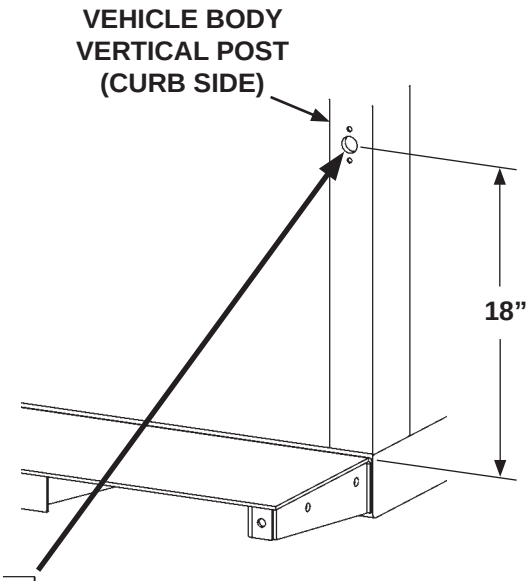
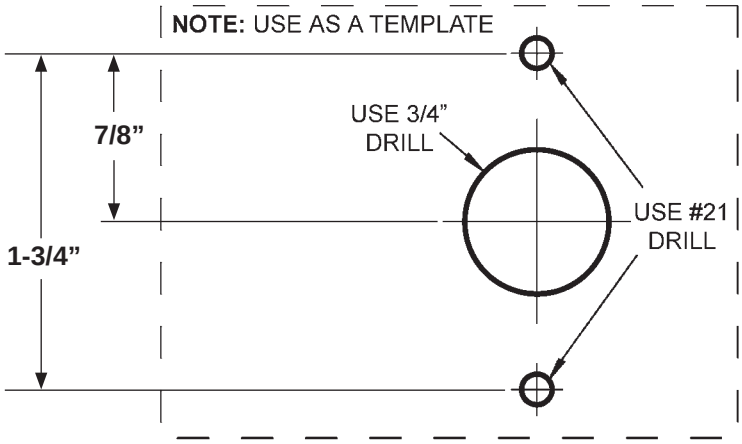


FIG. 40-1A



HOLE DRILLING TEMPLATE
FIG. 40-1B

NOTE: Hydraulic lines and electrical lines must run into pump box through sealing grommets **(FIG. 40-2)**. To ensure a good seal on hydraulic & electrical lines, never cut the sealing grommets.

2. Cut tie strap on coiled wiring harness **(FIG. 40-2)**. Pull the wiring harness through grommet on the pump mounting plate **(FIG. 40-2)**.

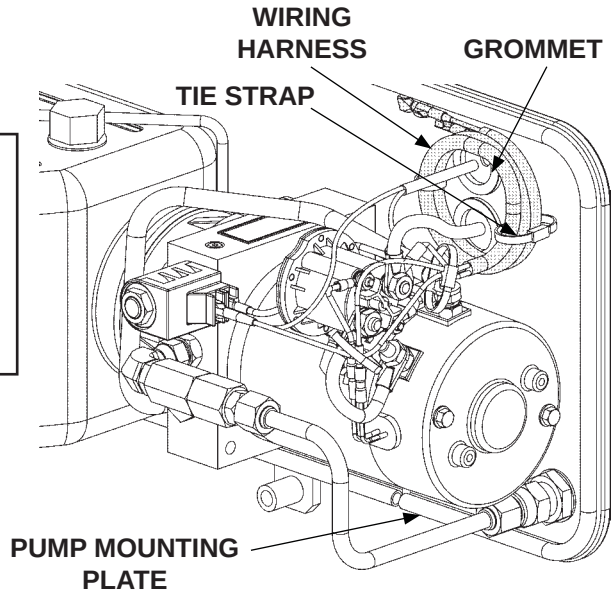


FIG. 40-2

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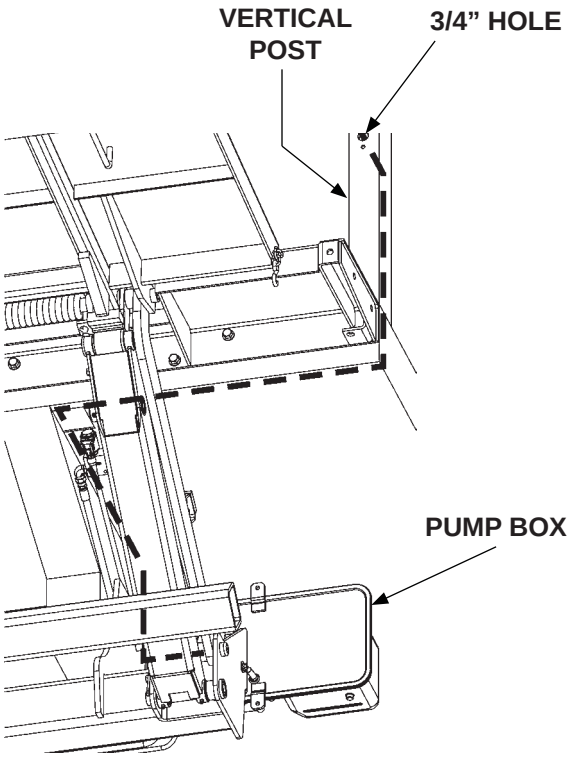
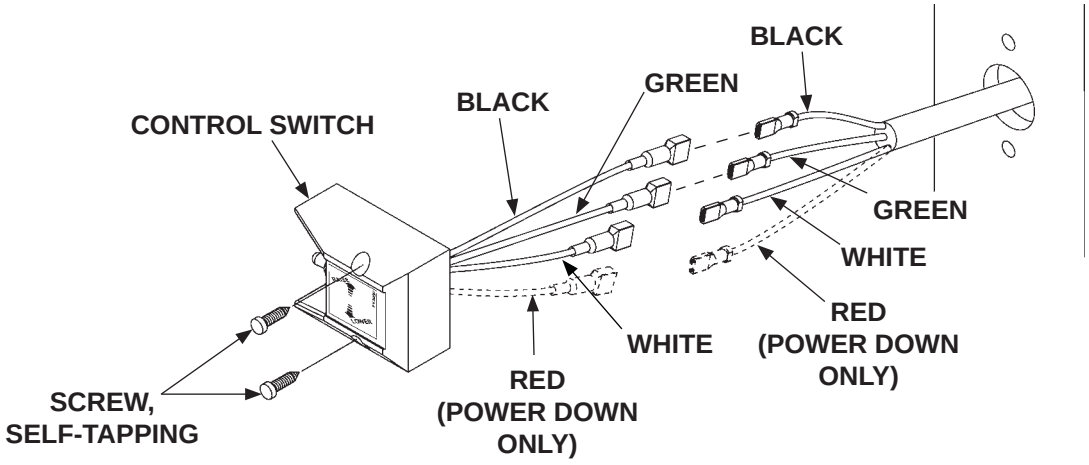
STEP 6 - INSTALL CONTROL SWITCH - Continued

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

3. Run wiring harness under vehicle body **(see dashed line - FIG. 41-1)** and up through inside of vertical post. Pull control switch wiring harness out the 3/4“ hole drilled in vertical post **(FIG. 41-1)**. Connect the control switch wiring to the wiring harness as shown in **FIG. 41-2**. Push extended wiring back into the ¾” hole in the vertical post until control switch touches the post. Attach control switch to vertical post with 2 self-tapping screws **(FIG. 41-2)**.



ROUTING CONTROL SWITCH WIRING
FIG. 41-1



CONTROL SWITCH WIRING CONNECTIONS
FIG. 41-2

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STEP 7 - ADDING HYDRAULIC FLUID

CAUTION

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

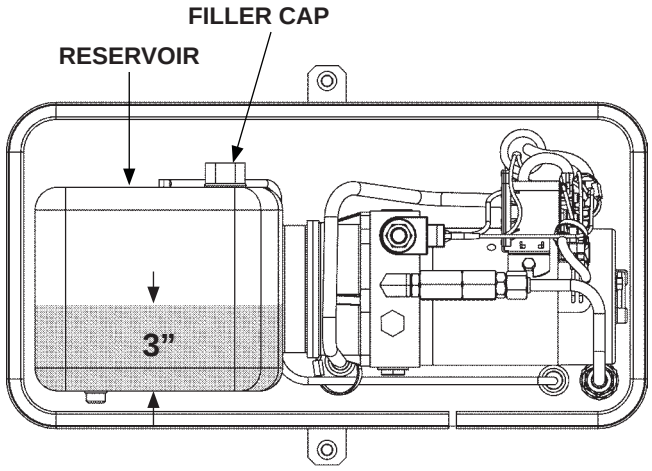
NOTE: Use correct grade of hydraulic fluid for your location.

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

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

1. Check the hydraulic fluid level in reservoir as follows. With Liftgate stowed, or platform at vehicle bed height, level should be as shown in **FIG. 42-1**.

2. Add fluid to the reservoir as follows. Pull out (no threads) filler cap **(FIG. 42-1)**. Fill the reservoir with hydraulic fluid to 3" level (**FIG. 42-1)**. Reinstall filler cap **(FIG. 42-1)**.

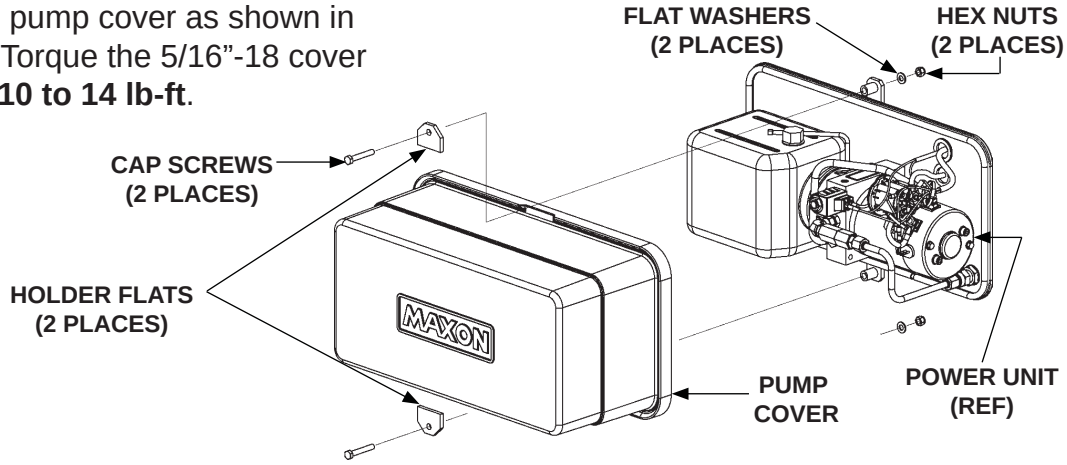


POWER UNIT FLUID LEVEL
FIG. 42-1

CAUTION

Pump cover must be correctly secured to prevent it from becoming a hazard. To secure pump cover, the long side of the holder flats must butt against pump cover as shown in the illustration.

3. Bolt on the pump cover as shown in **FIG. 42-2**. Torque the 5/16"-18 cover bolts from **10 to 14 lb-ft**.



BOLTING PUMP COVER
FIG. 42-2

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STEP 7 - ADDING HYDRAULIC FLUID - Continued

ISO 32 HYDRAULIC OIL	
RECOMMENDED BRANDS	**PART NUMBER**
AMSOIL	AWH-05
CHEVRON	HIPERSYN 32
KENDALL	GOLDEN MV
SHELL	TELLUS S2 V32
MOBIL	DTE-13M, DTE-24, HYDRAULIC OIL-13
EXXON	UNIVIS N-32

TABLE 43-1

ISO 15 OR MIL-H-5606 HYDRAULIC OIL	
RECOMMENDED BRANDS	**PART NUMBER**
AMSOIL	AWF-05
CHEVRON	FLUID A, AW-MV-15
KENDALL	GLACIAL BLU
SHELL	TELLUS S2 V15
EXXON	UNIVIS HVI-13
MOBIL	DTE-11M
MOBIL (MIL-H-5606)	AERO HFA
ROSEMEAD	THS FLUID 17111

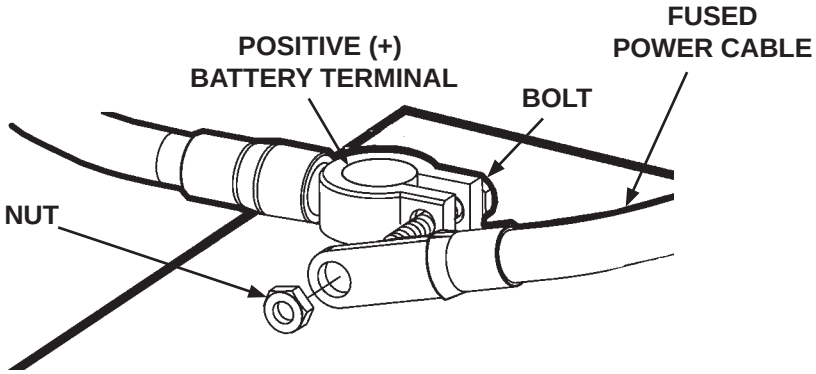
TABLE 43-2

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

STEP 8 - CONNECT POWER CABLE TO BATTERY

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

Remove nut from positive **(+)** battery terminal connector. Connect power cable to the positive **(+)** battery terminal connector **(FIG. 44-1)**. Re-install and tighten nut.



CONNECTING POWER CABLE
FIG. 44-1

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STEP 9 - REMOVE LOCKING BRACKETS

CAUTION

Do not fully pressurize the system in this step. Fully pressurize the system and check for hydraulic leaks after Liftgate is fully welded.

1. Push control switch to **UP** position and hold just enough time to pressurize hydraulic system. Release control switch. Hydraulic system is ready.

2. Back out forklift or remove hoist supporting Liftgate. Then remove lifting tube, fitting jigs, and corner guards **(FIG. 45-1)**.

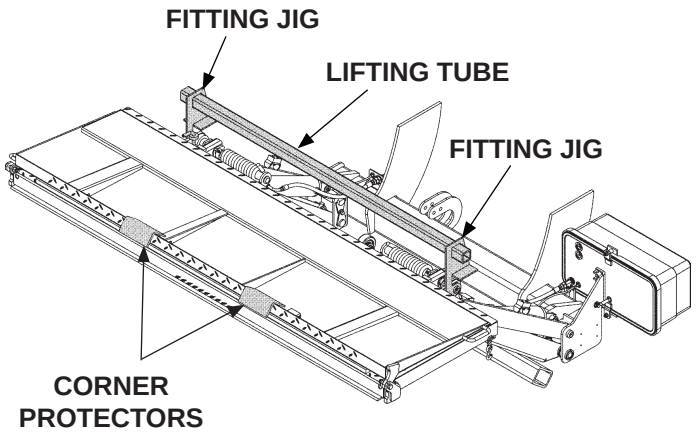

FIG. 45-1

3. Remove floor jack **(FIG. 45-2)**.

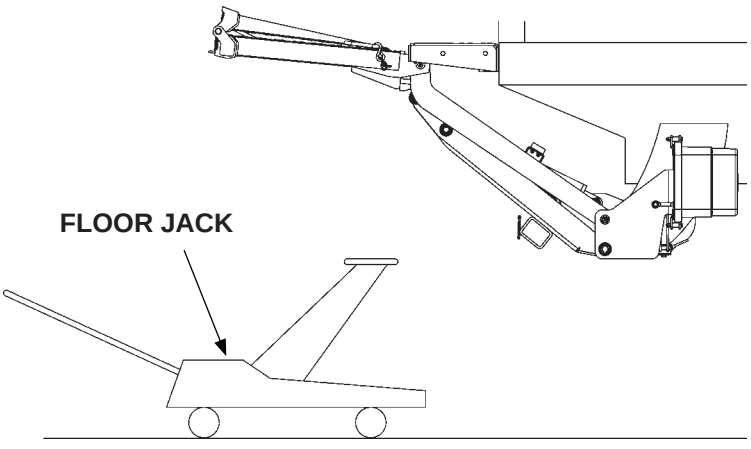

FIG. 45-2

4. Lower platform to the ground and unfold flipover.

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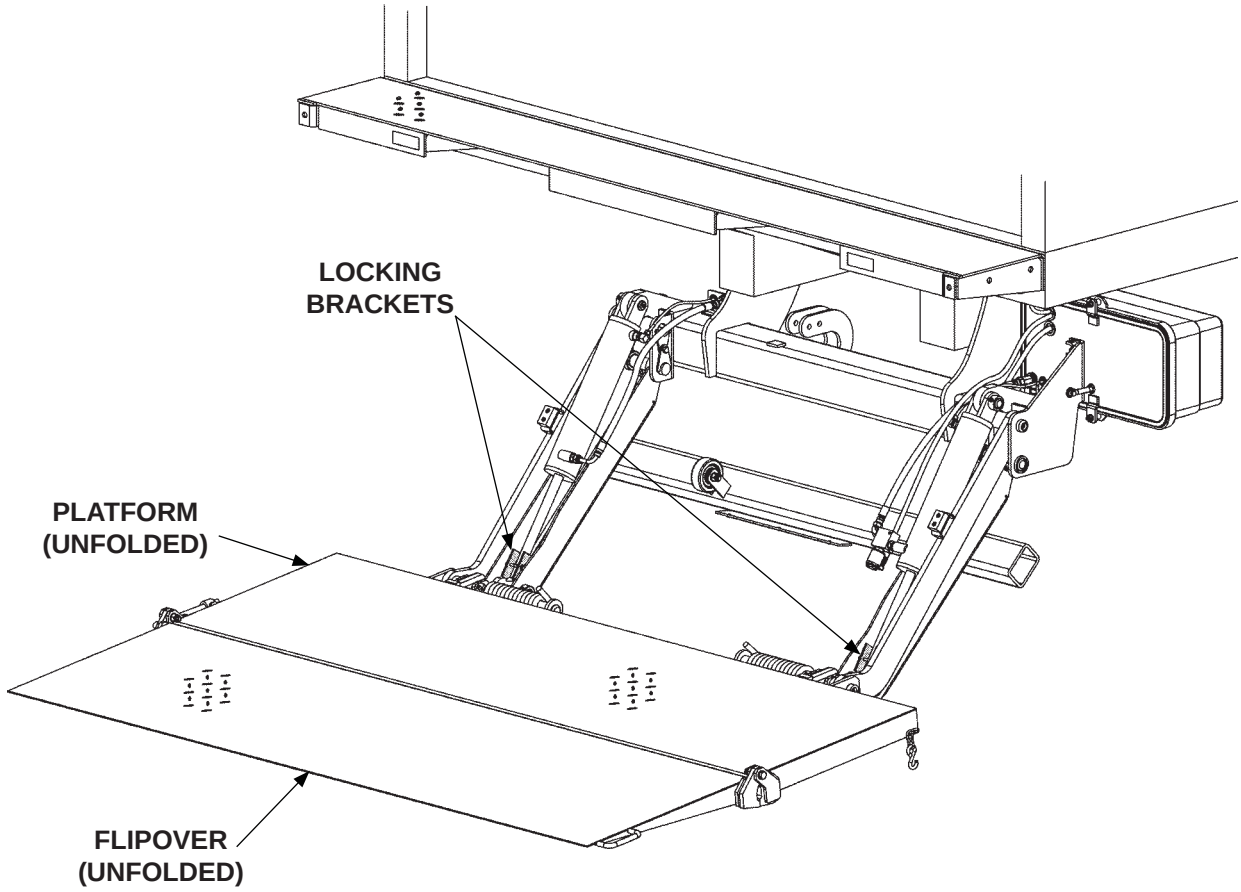
STEP 9 - REMOVE LOCKING BRACKETS - Continued

NOTE: To operate Liftgate, locking brackets must be removed from the lift arms.

5. Remove locking brackets from lift arms **(FIG. 46-1)**.



REMOVING LOCKING BRACKETS
FIG. 46-1

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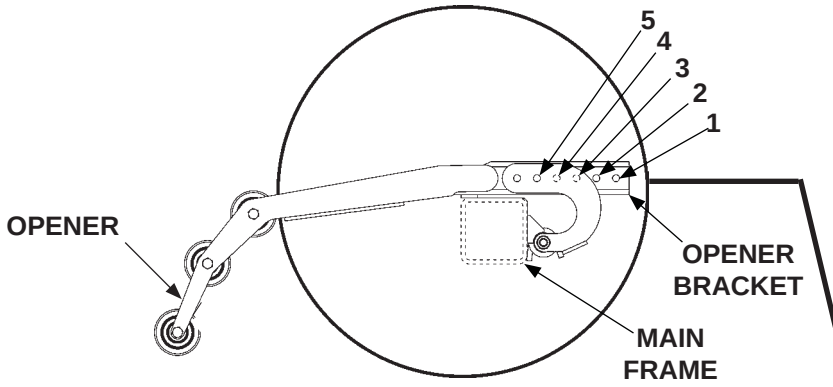
STEP 10 - ATTACH PLATFORM OPENER TO LIFTGATE

NOTE: The platform must always stow and unfold without hitting underside of vehicle. Platform must never be positioned so it falls open.

⚠ CAUTION

To prevent injury, unfold platform before positioning opener.

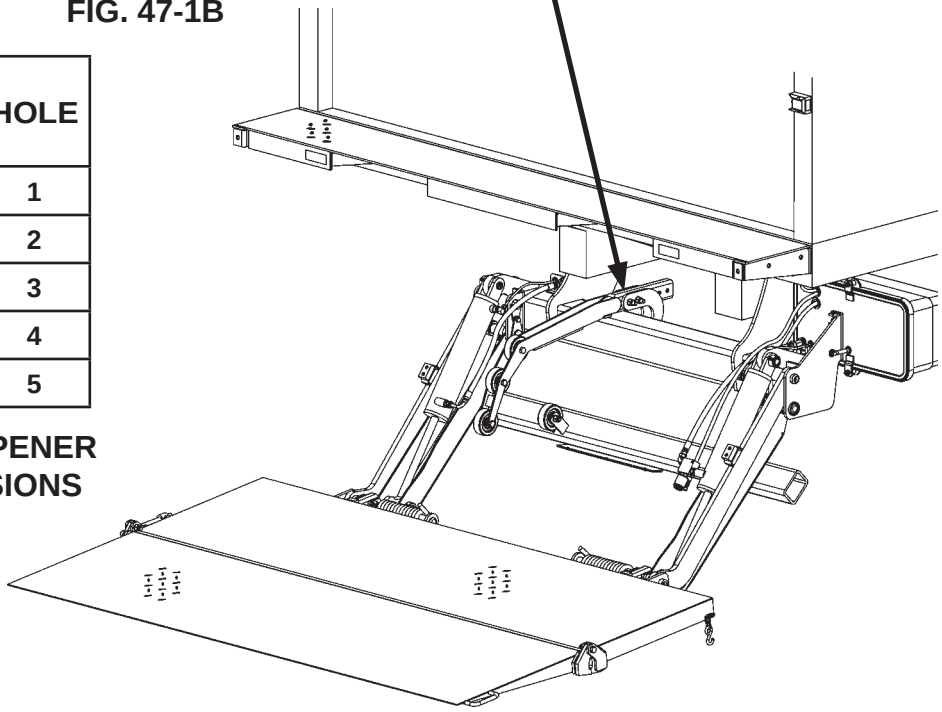
1. Measure vehicle bed height. Match opener to bed height measurement for your Liftgate, as shown in **FIG. 47-1B** and **TABLE 47-1**. Bolt opener to bracket using two 1/2”-13 hex head cap screws, lock nuts and flat washers (Parts Box items).



OPENER POSITIONS BASED ON BED HEIGHT FIG. 47-1B

VEHICLE BED HEIGHT (38” to 54” ONLY)	HOLE
38”- 48” (INCLUSIVE)	1
48”- 51” (INCLUSIVE)	2
51”- 52” (INCLUSIVE)	3
53”	4
54”	5

TE-33 LIFTGATE OPENER POSITION DIMENSIONS TABLE 47-1



TE-33 FIG. 47-1A

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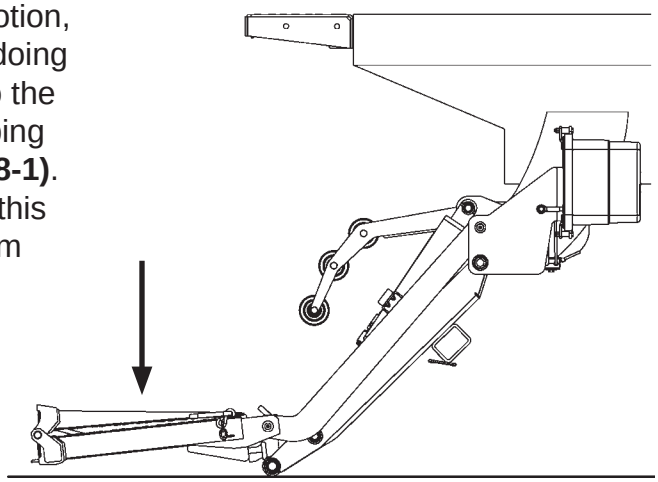
STEP 10 - ATTACH PLATFORM OPENER TO LIFTGATE - Continued

⚠ CAUTION

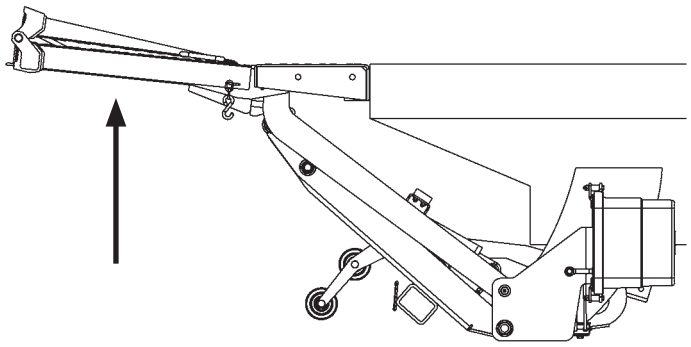
If there is any interference with the platform while stowing Liftgate, check for damage on bottom of platform, flipover, and the hinge in between. A damaged platform or flipover may result in personal injury and additional damage to Liftgate.

2. Stow and unfold Liftgate several times to verify there is no interference. If platform is lowering with a jerking motion, do step **3**.

3. If the platform lowers with a “jerking” motion, bleed air from the hydraulic system by doing the following. Push the control switch to the **DOWN** position until you hear air escaping into the hydraulic fluid reservoir **(FIG. 48-1)**. Raise the platform **(FIG. 48-2).** Repeat this step until there is no air left in the system and platform lowers smoothly.



LOWERING PLATFORM
FIG. 48-1



RAISING PLATFORM
FIG. 48-2

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STEP 11 - FINISH WELDING LIFTGATE TO VEHICLE

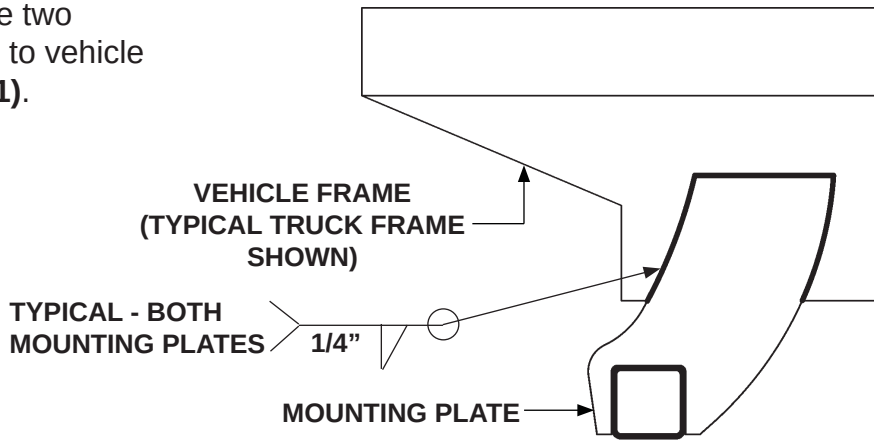
CAUTION

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

CAUTION

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

Weld each of the two mounting plates to vehicle frame **(FIG. 49-1)**.



WELDING MOUNTING PLATE
FIG. 49-1

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STEP 12 - ADJUST PLATFORM (IF REQUIRED)

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

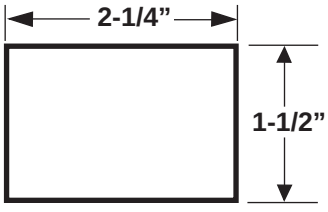
1. Make sure platform is at ground level. Unfold the platform and flipover. As the platform first touches the ground, shackles and tip of flipover must touch the ground at the same time **(FIG. 50-1)**. If the shackles and the tip of flipover touch the ground at the same time, **RAISE** platform to bed height. Tip of flipover should be above bed level **(FIG. 50-2)**. If indications are correct in both cases **(FIGS. 50-1 & 50-2)**, Liftgate is installed correctly and no adjustment is needed. If indications are incorrect, continue with instruction **2**.

NOTE: If tip of flipover touches first **(FIG. 50-3)**, do instruction **2**. If the shackle touches first **(FIG. 41-1)**, skip instruction **2** and do **3**.

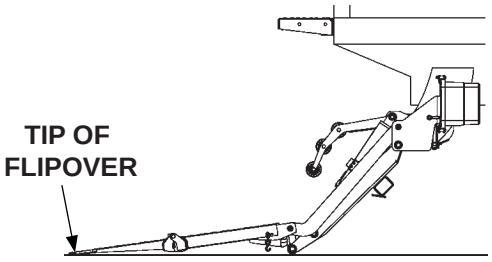
2. Make sure platform is still at ground level. If the shackle is not touching the ground, measure and compare distance **"A" (FIG. 50-3)** with **TABLE 50-1** to determine the correct shim. Make shims as needed **(FIG. 50-5)**. Weld shim as shown in **FIG. 50-4**.

RAISE TIP OF FLIPOVER THIS DISTANCE "A"	REQUIRED SHIM THICKNESS	WELD SIZE "W"
7/8"	1/16"	1/16"
2"	1/8"	1/8"
3"	3/16"	3/16"
3-15/16"	1/4"	1/4"

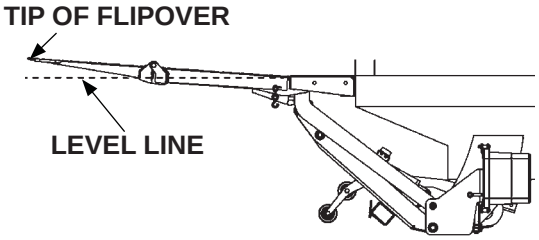
TABLE 50-1



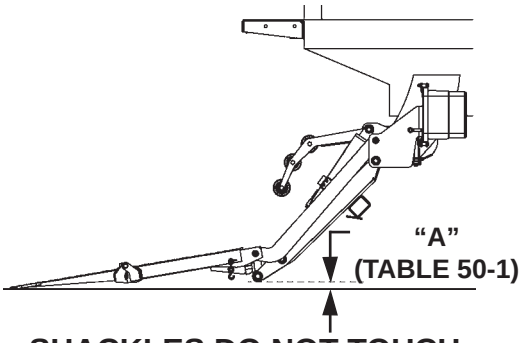
**SHIM (1/16", 1/8", 3/16", or 1/4")
MADE FROM STEEL FLAT
FIG. 50-5**



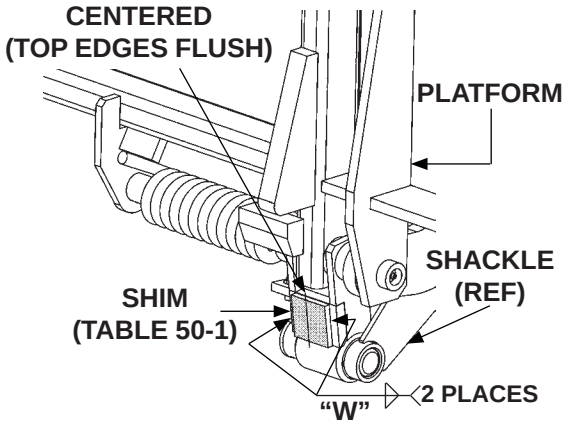
**PLATFORM & SHACKLES
TOUCH GROUND
FIG. 50-1**



**PLATFORM EDGE ABOVE
BED LEVEL
FIG. 50-2**



**SHACKLES DO NOT TOUCH
GROUND
FIG. 50-3**



**WELDING SHIMS (CURBSIDE SHOWN)
FIG. 50-4**

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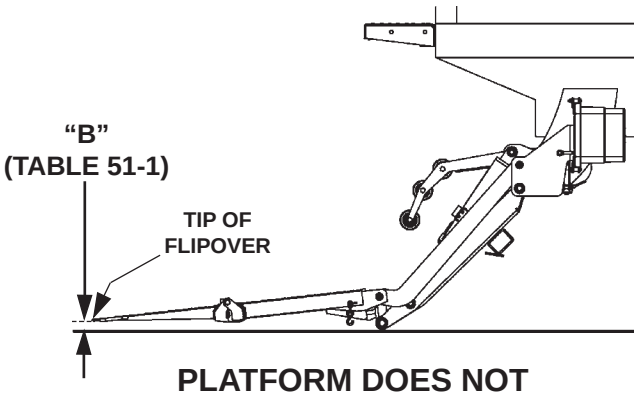
STEP 12 - ADJUST PLATFORM (IF REQUIRED) - Continued

3. Make sure platform is still at ground level. If the tip of flipover is not touching the ground, measure and compare distance **"B" (FIG. 51-1)** with **TABLE 51-1** to determine how much to grind from the platform stops **(FIG. 51-3)**.

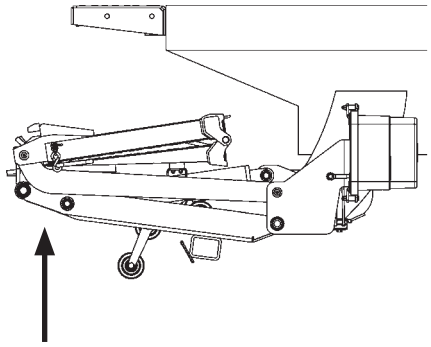


PLATFORM DOES NOT TOUCH GROUND
FIG. 51-1

LOWER TIP OF FLIPOVER THIS DISTANCE "B"	GRIND METAL FROM PLATFORM STOP
7/8"	1/16"
2"	1/8"
3"	3/16"
3-15/16"	1/4"

TABLE 51-1

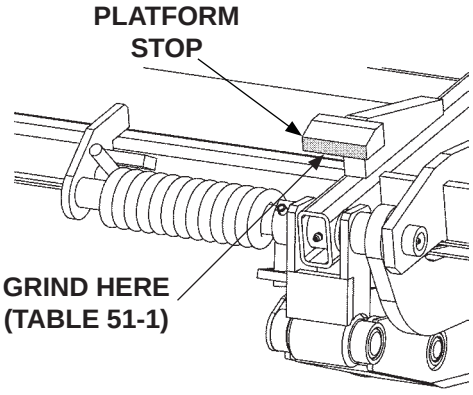
4. RAISE the platform to comfortable work height. Fold flipover and platform for access to platform stops **(FIG. 51-2)**.



PLATFORM RAISED TO WORK HEIGHT
FIG. 51-2

5. Grind correct amount of metal **(TABLE 51-1)** from platform stop as shown in **FIG. 51-3**.

6. Unfold flipover and platform. **LOWER** platform to the ground. As the platform first touches the ground, the tip of flipover and shackle should touch at the same time as shown in **FIG. 46-1**.



GRINDING PLATFORM STOPS (CURBSIDE SHOWN)
FIG. 51-3

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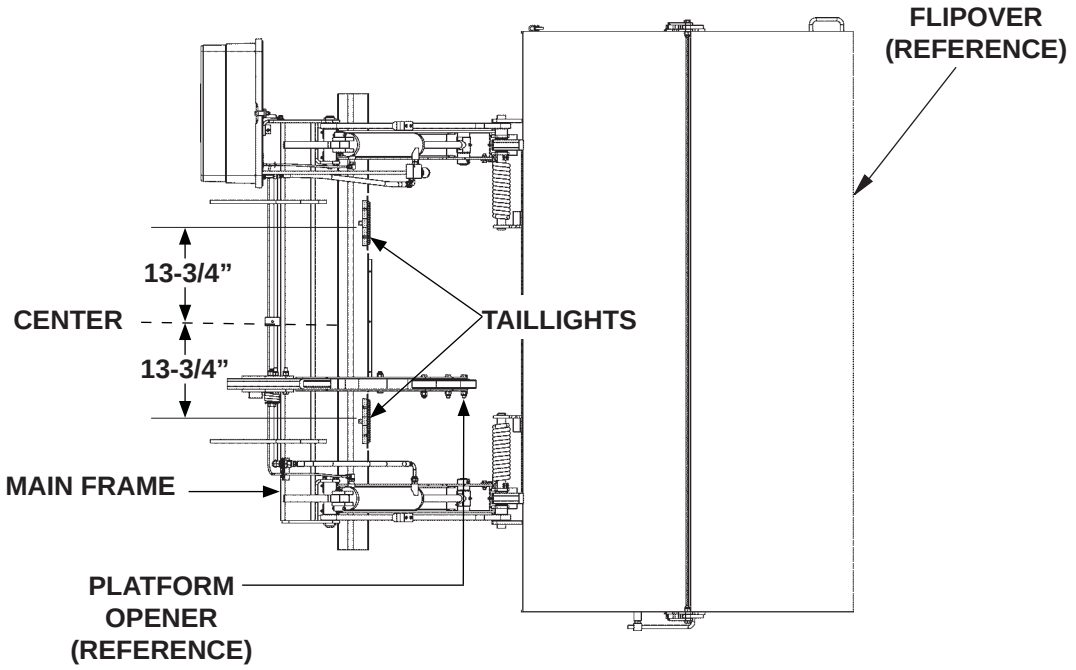
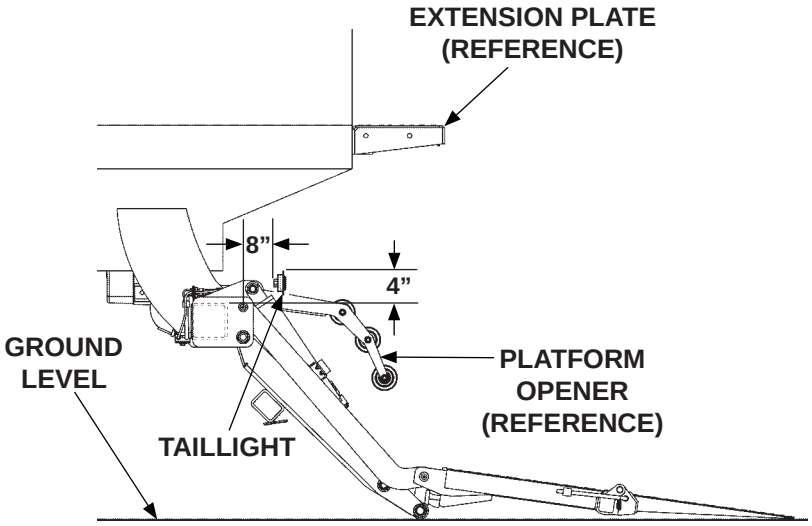
STEP 13 - VEHICLE TAILLIGHT POSITIONING (IF REQUIRED)

NOTE: Positions are based on using oval taillights of 3-1/4" height by 7-7/8" width. Larger taillights may interfere with Liftgate. Taillights and attaching hardware are not provided with the Liftgate.



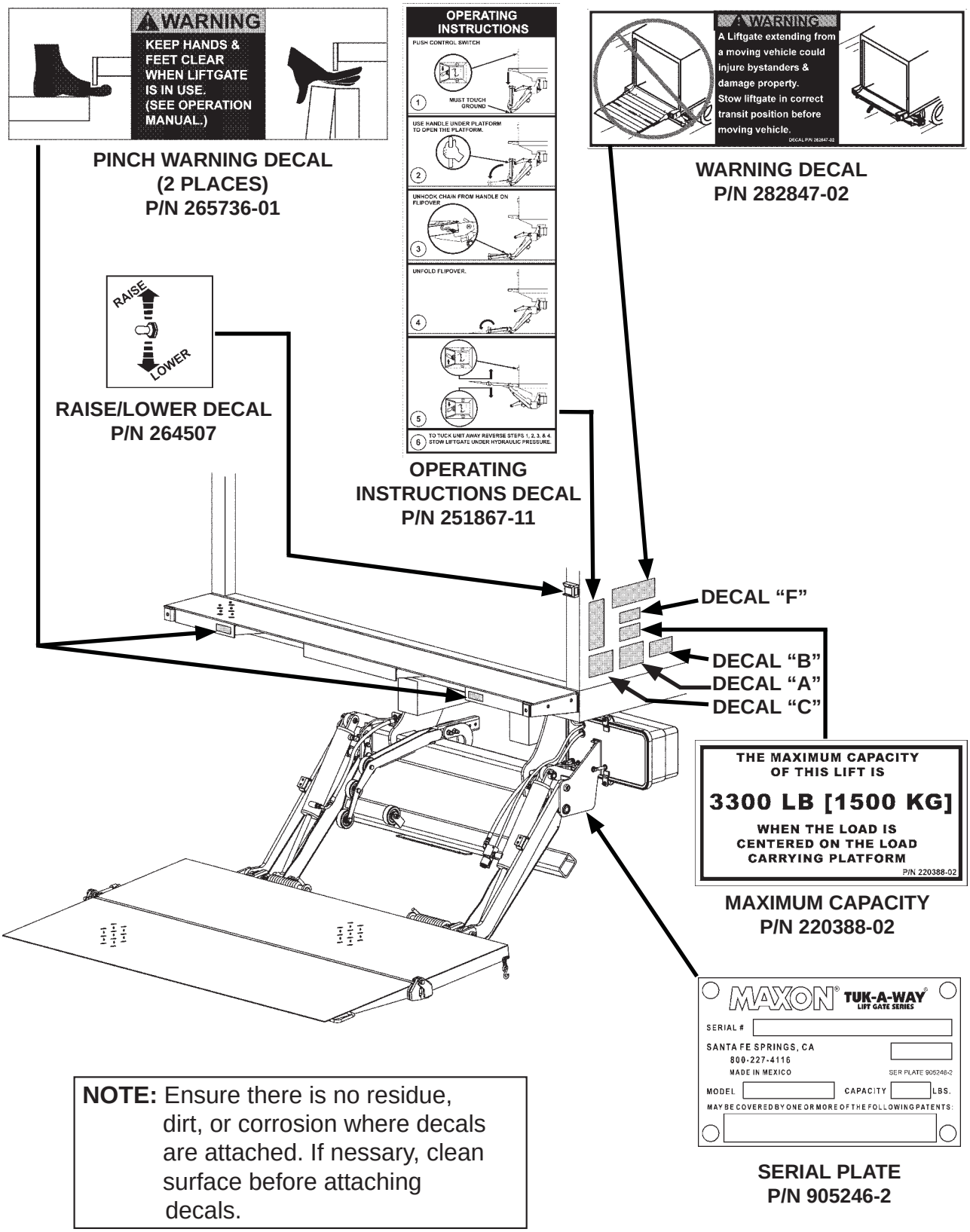
LIFTGATE TOP VIEW
FIG. 52-1



LIFTGATE SIDE VIEW - LEFT HAND SIDE SHOWN
FIG. 52-2

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

ATTACH DECALS: TE-33

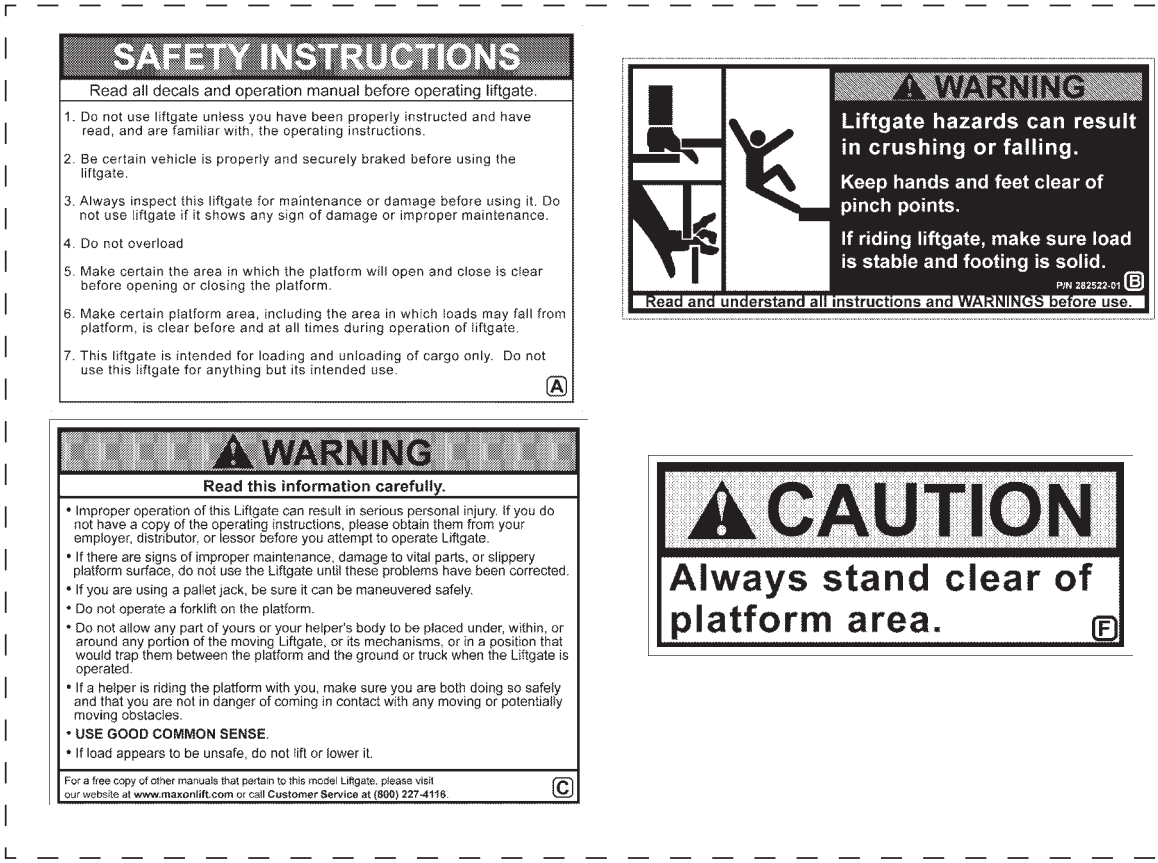


NOTE: Ensure there is no residue, dirt, or corrosion where decals are attached. If nessary, clean surface before attaching decals.

FIG. 53-1

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

ATTACH DECALS - Continued

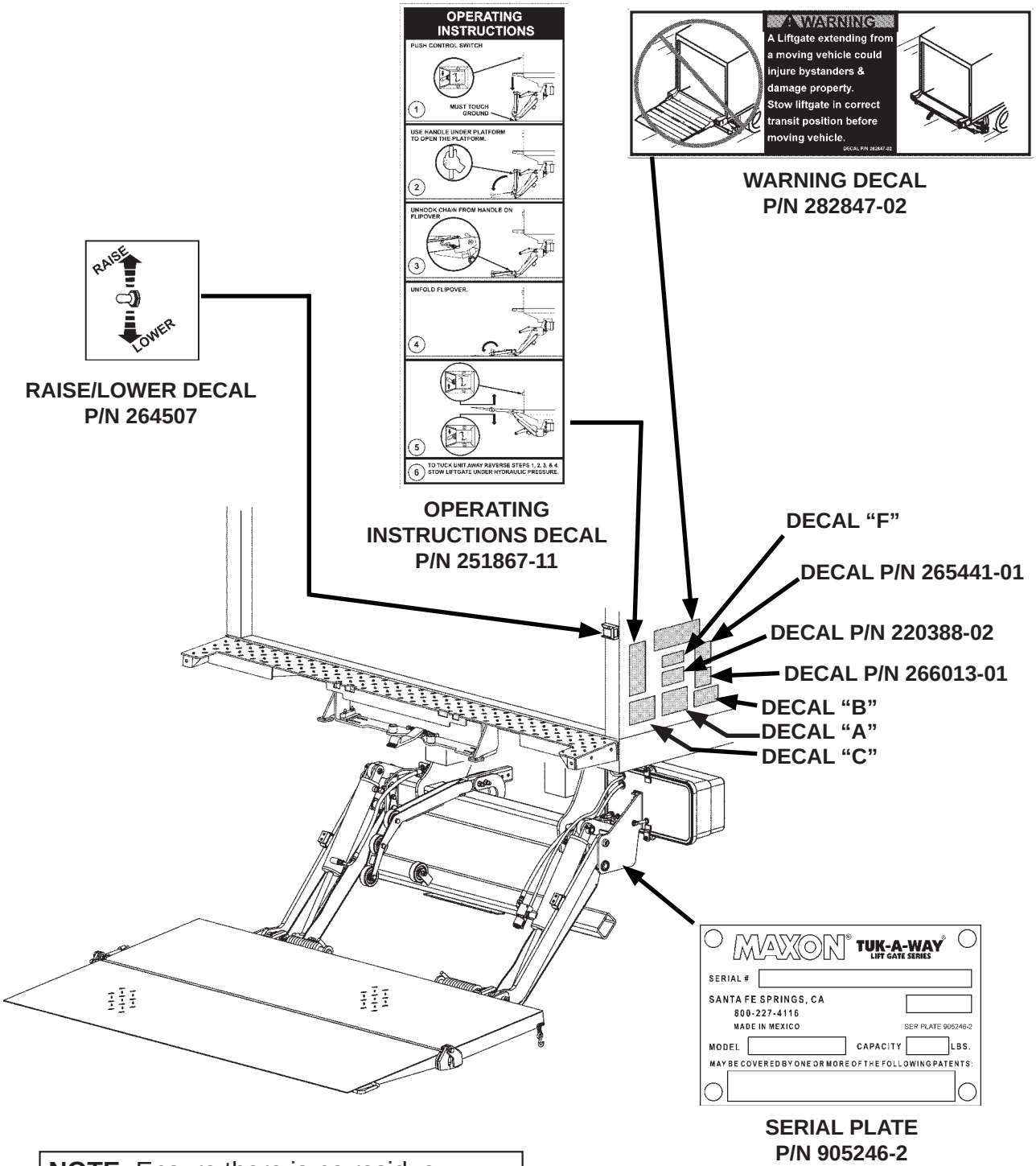


DECAL SHEET
P/N 282522-01

FIG. 54-1

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

ATTACH DECALS: TEWR-33



WARNING DECAL
P/N 282847-02

RAISE/LOWER DECAL
P/N 264507

OPERATING INSTRUCTIONS DECAL
P/N 251867-11

DECAL "F"

DECAL P/N 265441-01

DECAL P/N 220388-02

DECAL P/N 266013-01

DECAL "B"

DECAL "A"

DECAL "C"

SERIAL PLATE
P/N 905246-2

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

FIG. 55-1

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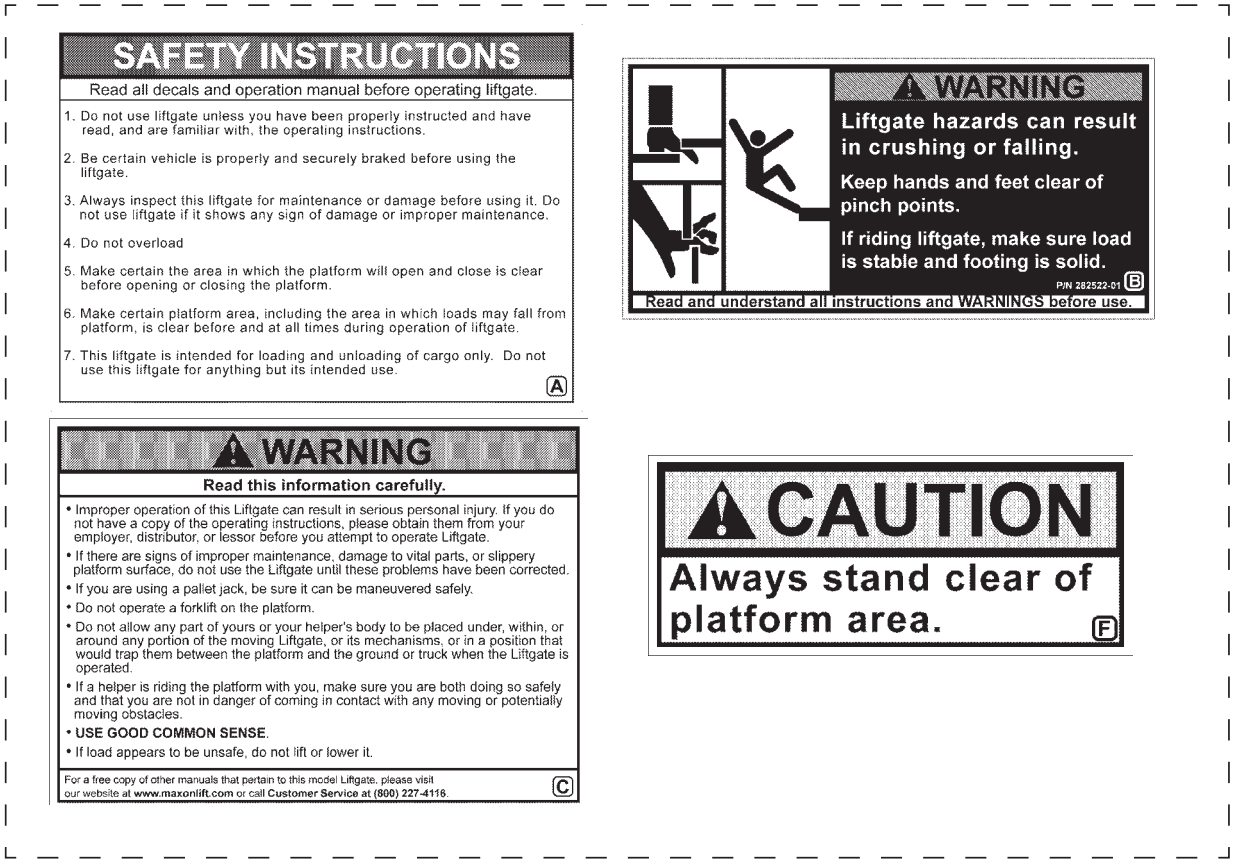
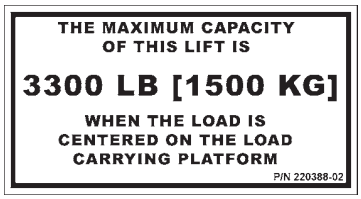
ATTACH DECALS: TEWR-33 - Continued



DECAL SHEET
P/N 282522-01



MAXIMUM CAPACITY
P/N 220388-02

WARNING DECAL
P/N 265441-01

NOTICE DECAL
P/N 266013-01

FIG. 56-1

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TOUCHUP PAINTED OR GALVANIZED FINISH

CAUTION

Damaged cylinder seals and contaminated hydraulic fluid can result from painting the polished portion of the cylinder rod. To prevent damage, protect the exposed polished portion of the cylinder rod while painting.

- If bare metal or primer is exposed on the painted portions of the Liftgate, touch up the paint. To maintain the protection provided by the original paint system, MAXON recommends aluminum primer touchup paint kit, P/N 908134-01.
- If bare metal is exposed on galvanized portions of the Liftgate, touch up the galvanized finish. To maintain the protection provided by the original galvanized finish, MAXON recommends cold galvanize spray, P/N 908000-01.

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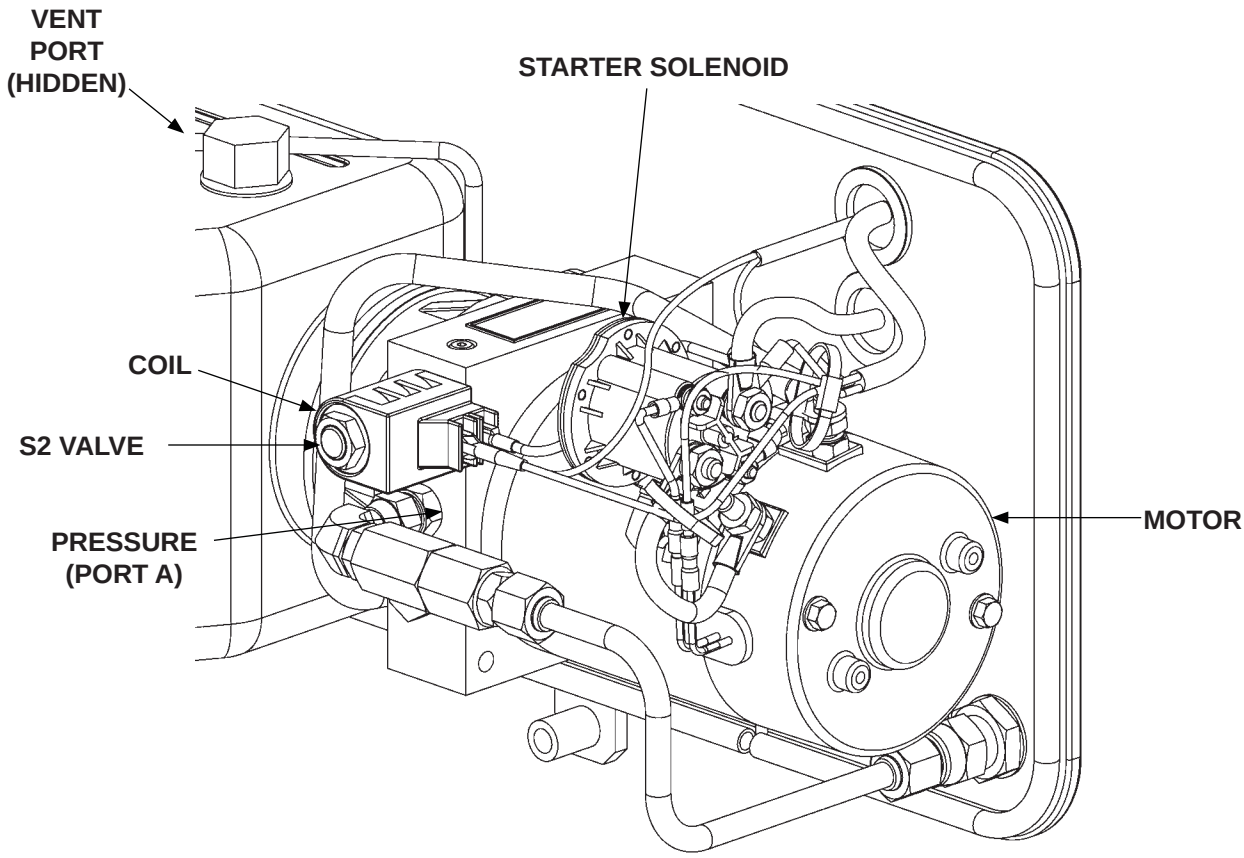
SYSTEM DIAGRAMS

PUMP & MOTOR SOLENOID OPERATION (GRAVITY DOWN)



POWER UNIT
FIG. 58-1

POWER UNIT MOTOR & SOLENOID OPERATION				
LIFTGATE FUNCTION	PORT	SOLENOID OPERATION (✓ MEANS ENERGIZED)		
		STARTER SOL & MOTOR	S2 VALVE	LOCK VALVE (ON RH CYLINDER)
RAISE	A	✓		
LOWER			✓	✓
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC				

TABLE 58-1

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HYDRAULIC SYSTEM DIAGRAMS
HYDRAULIC SCHEMATIC (GRAVITY DOWN)

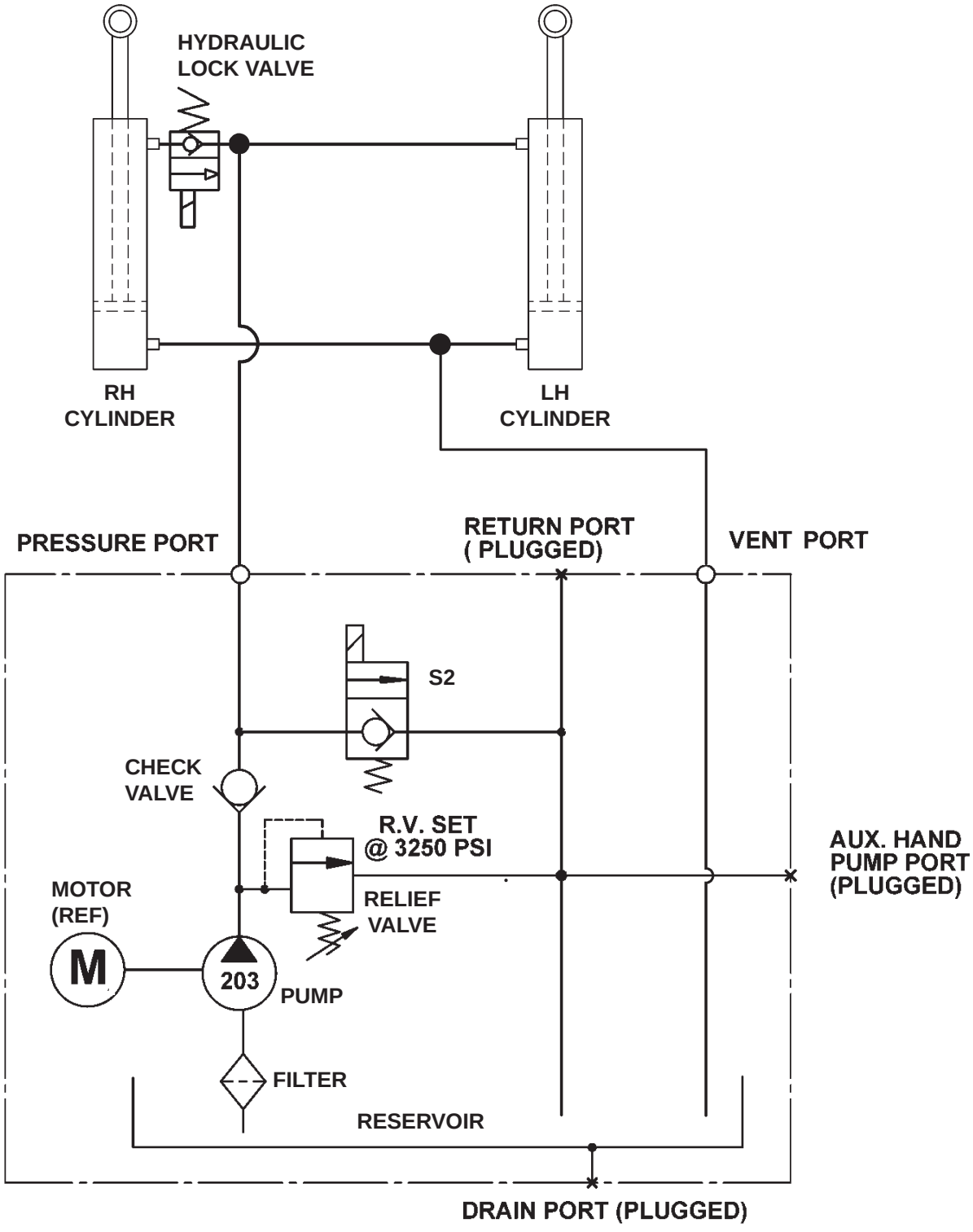

FIG. 59-1

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ELECTRICAL SYSTEM DIAGRAMS

ELECTRICAL SCHEMATIC (GRAVITY DOWN)

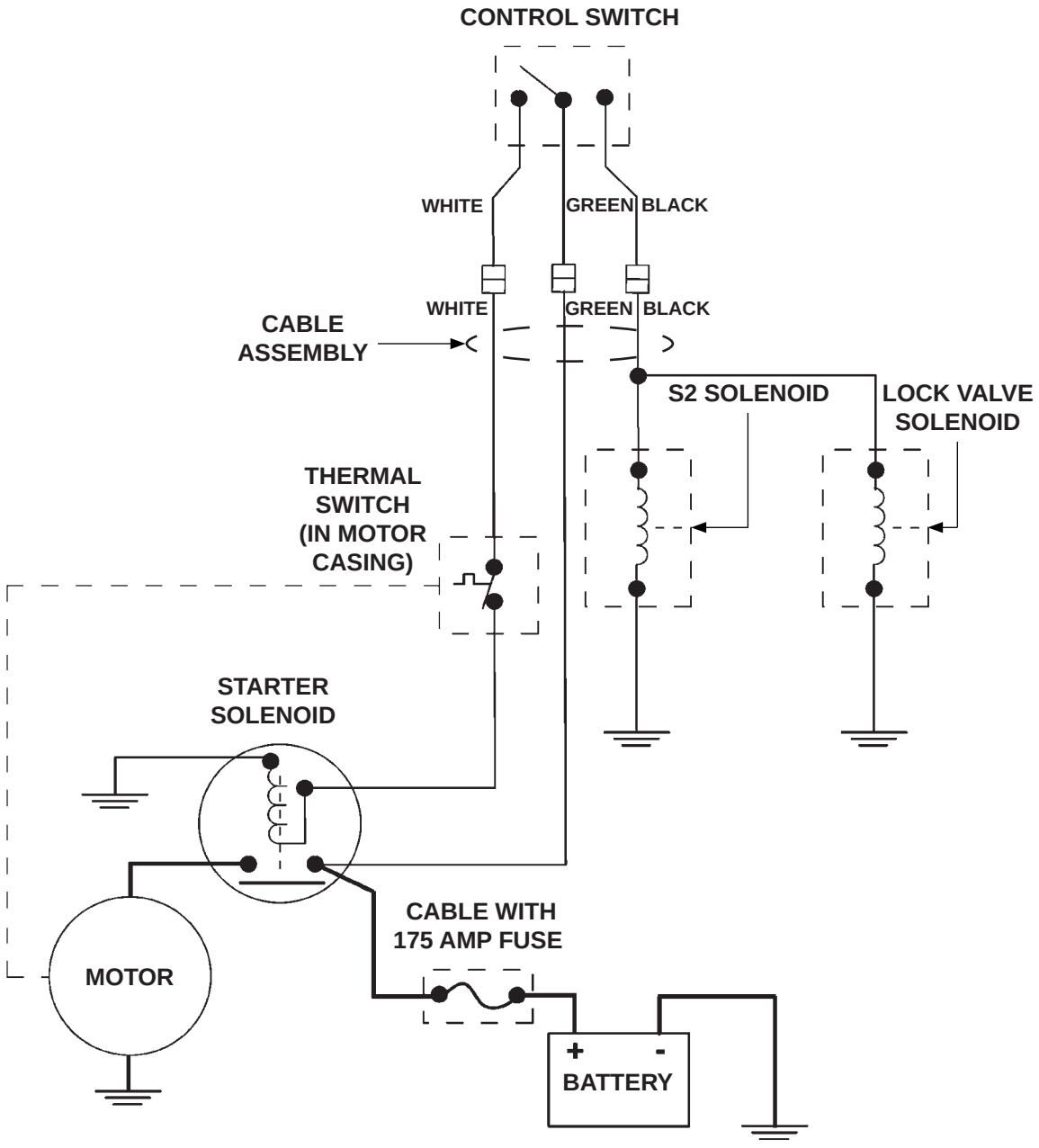

FIG. 60-1

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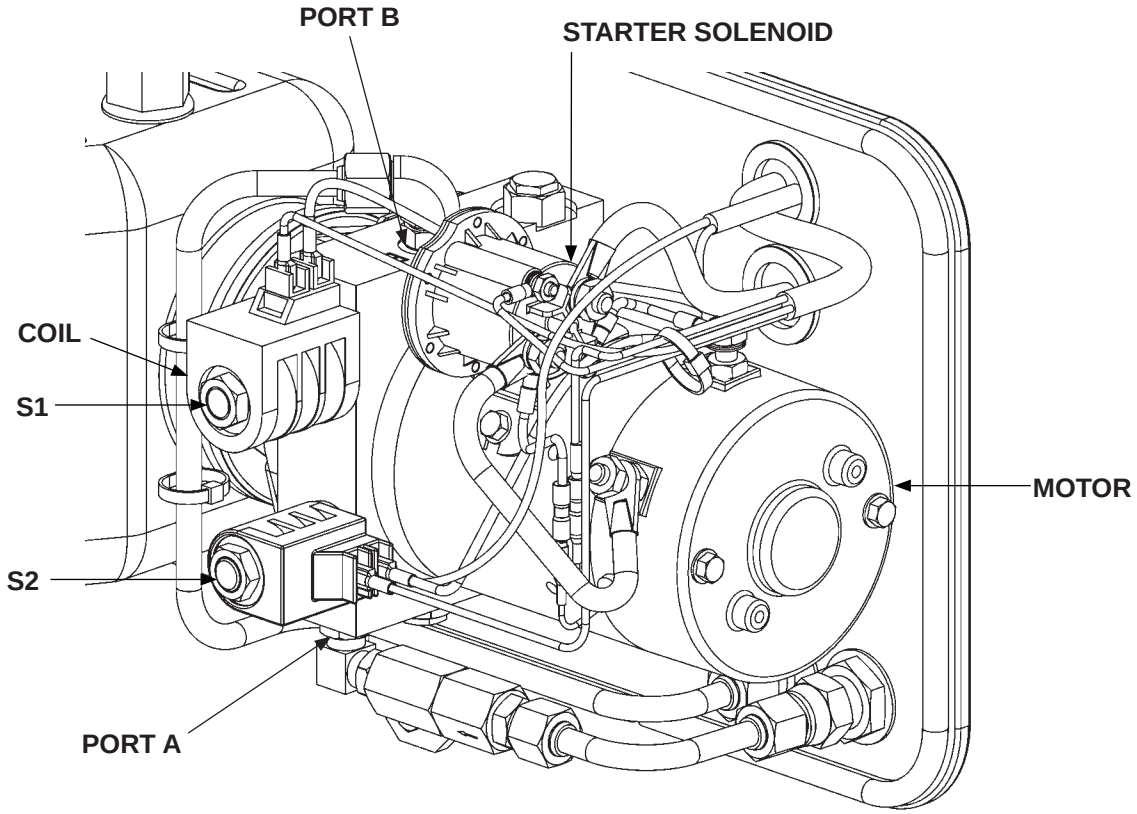
SYSTEM DIAGRAMS

PUMP & MOTOR SOLENOID OPERATION (POWER DOWN)



POWER UNIT
FIG. 61-1

POWER UNIT MOTOR & SOLENOID OPERATION					
LIFTGATE FUNCTION	SOLENOID OPERATION (✓ MEANS ENERGIZED)				
	PORT	STARTER SOL & MOTOR	S1 VALVE	S2 VALVE	LOCK VALVE (ON RH CYLINDER)
RAISE	A	✓	✓		
LOWER	B	✓		✓	✓
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC					

TABLE 61-1

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HYDRAULIC SYSTEM DIAGRAMS
HYDRAULIC SCHEMATIC (POWER DOWN)

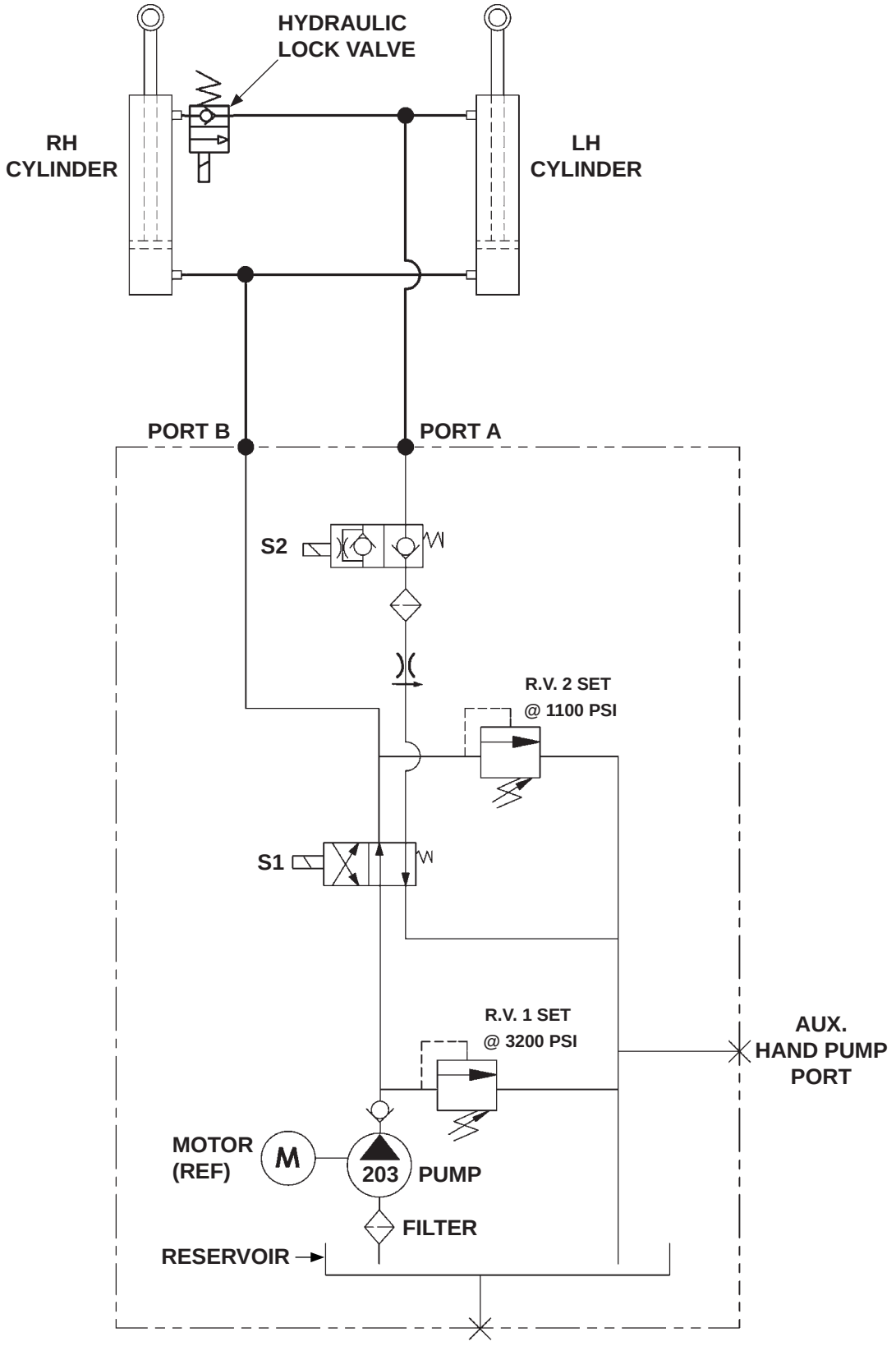

FIG. 62-1

ELECTRICAL SYSTEM DIAGRAMS

ELECTRICAL SCHEMATIC (POWER DOWN)

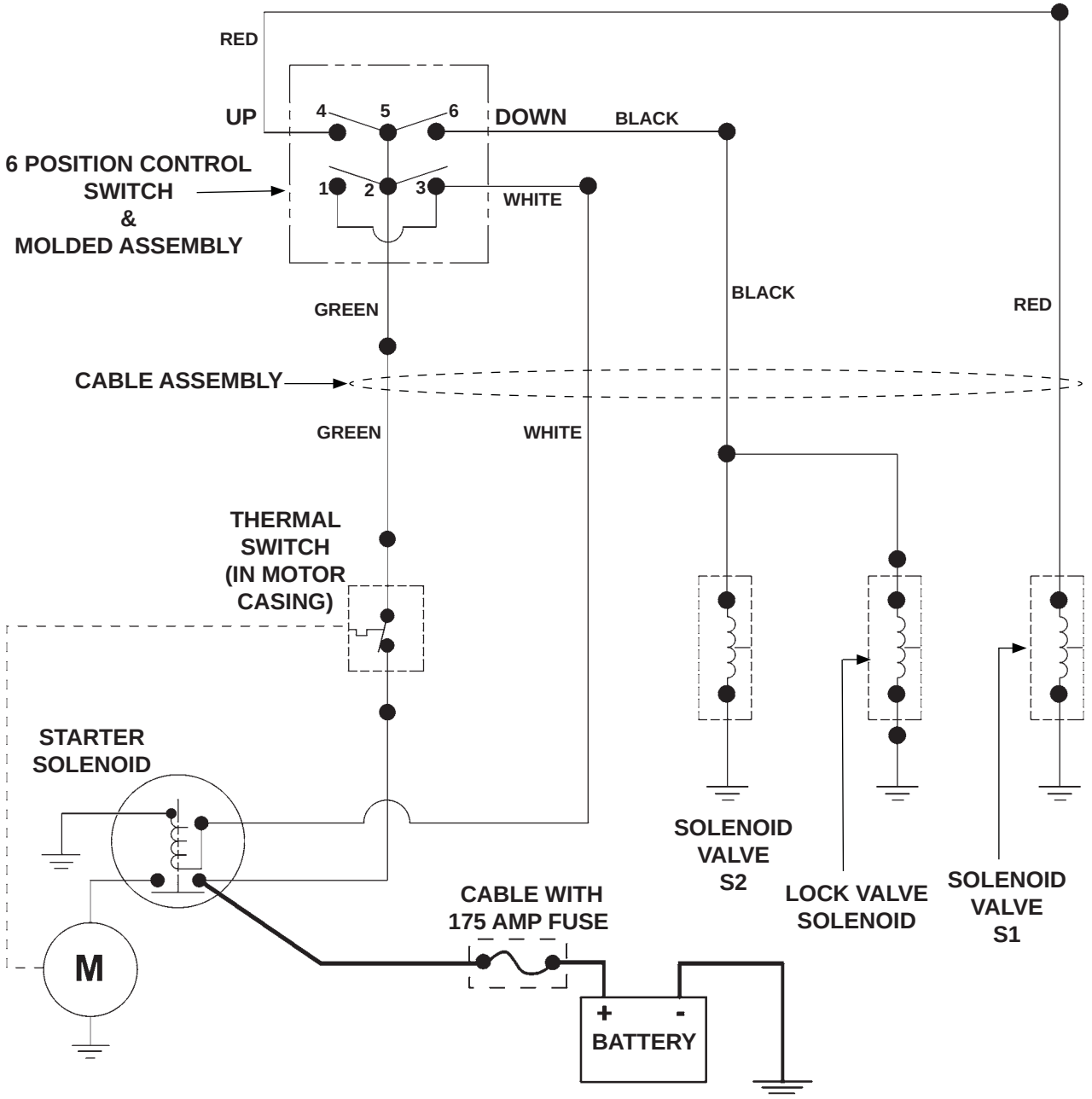

FIG. 63-1

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OPTIONS
OPTIONAL LIFTGATE COMPONENTS

MISCELLANEOUS KITS	PART NO.	GD	PD
TRAFFIC CONES	268893-01	X	X
FRAME MOUNTING BRACKET FOR 2 OVAL LIGHTS	282372-01	X	X
DUAL STEP KIT	285479-01	X	X
DUAL STEP KIT (WALK RAMP)	285479-02	X	X
SINGLE STEP KIT, GALVANIZED (38” - 44” BED HEIGHT)	285895-03G	X	X
SINGLE STEP KIT WITH BUMPER, GALVANIZED (38” - 44” BED HEIGHT)	285895-04G	X	X
EXTENSION KIT (102” WIDE VEH), TE-33	283134-03	X	X
EXTENSION KIT (102” WIDE VEH), TE-33, GALVANIZED	283134-03G	X	X
ELECTRICAL KITS			
IN CAB ON-OFF SWITCH	250477	X	X
TUK-A-WAY DUAL CONTROL KIT	264845	X	
TUK-A-WAY DUAL CONTROL KIT	264845-02		X
40’ POWER CABLE WITH FUSE	264848	X	X
10’ EXTENSION TO POWER CABLE	264849	X	X
CIRCUIT BREAKER KIT (150AMP)	251576	X	X
STREET SIDE CONTROL KIT, TUK-A-WAY, GRAVITY DOWN	280265-01	X	
STREET SIDE CONTROL KIT, TUK-A-WAY, POWER DOWN	280265-03		X
HAND HELD CONTROL ASSEMBLY (3 COND)	280570-01	X	
HAND HELD CONTROL ASSEMBLY (4 COND)	280570-03		X
GROUND CABLE, 2 GA UGE X 38’ LG.	269190-01	X	X
CIRCUIT BREAKER (150 AMP)	251576	X	X
CYCLE COUNTER KIT	280590-01	X	X
TOUCH-UP PAINT KIT			
TOUCH-UP PAINT (BCG) WITH ALUMINUM PRIMER, SMALL	908134-01	X	X
COLD GALVANIZE SPRAY	908000-01	X	X

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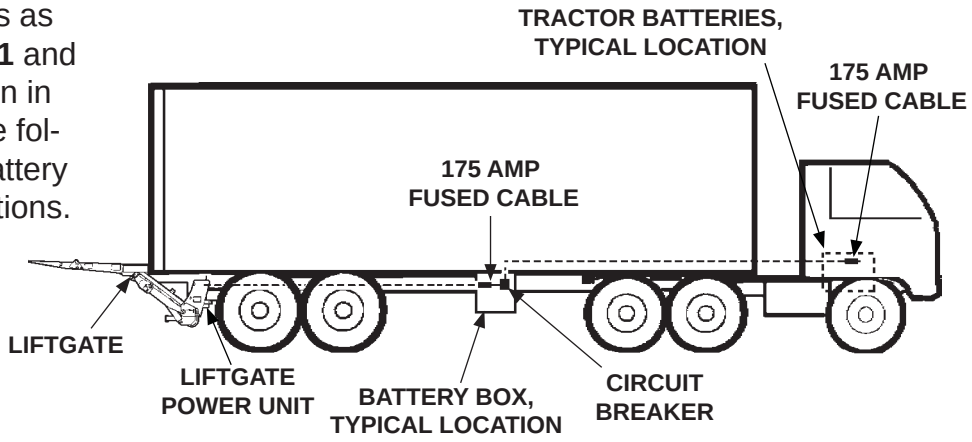
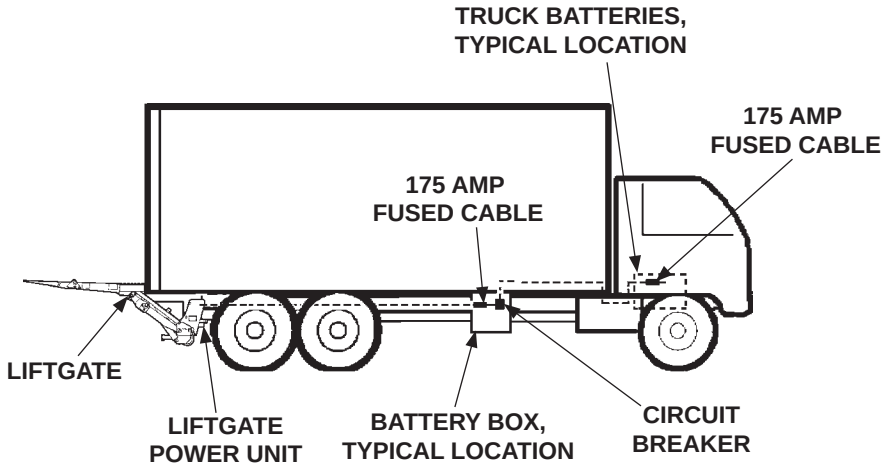
RECOMMENDED LIFTGATE POWER CONFIGURATION

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 additional battery box are typically installed on trailers as shown in **FIG. 65-1** and on trucks as shown in **FIG. 65-2**. See the following page for battery and cable connections.



RECOMMENDED LIFTGATE & BATTERY BOX INSTALLATION ON TRAILER FIG. 65-1



RECOMMENDED LIFTGATE & BATTERY BOX INSTALLATION ON TRUCK FIG. 65-2

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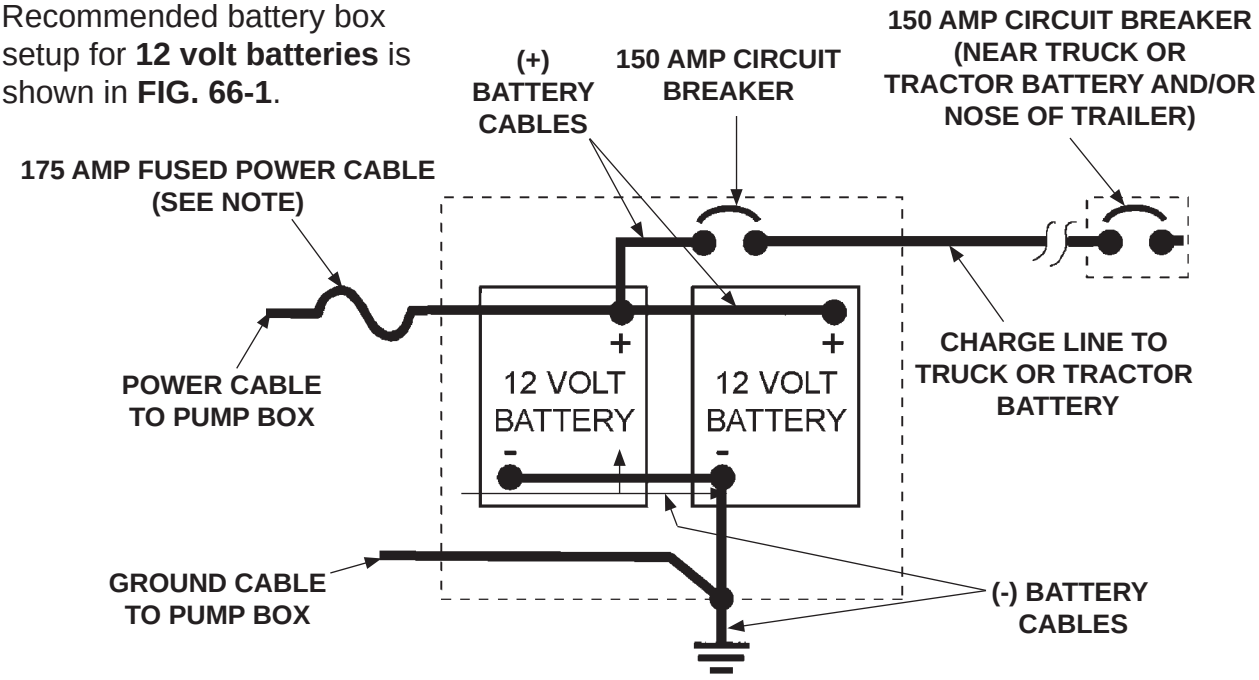
RECOMMENDED LIFTGATE POWER CONFIGURATION - Continued

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

2. Recommended battery box setup for **12 volt batteries** is shown in **FIG. 66-1**.



12 VOLT BATTERY CONNECTIONS
FIG. 66-1

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