M-11-06 REV. J FEBRUARY 2016



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SUMMARY OF CHANGES: M-11-06, REVISION J

| PAGE | DESCRIPTION OF CHANGE | | |
|-------|--|--|--|
| COVER | Updated revision and date | | |
| 12 | Specified minimum bed heights for 48" x 84" platforms and 52" x 84" platforms. | | |
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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. 5-1). To minimize hazard remove galvanizing from weld area, provide adequate ventilation, and wear suitable respirator.



A WARNING Welding on galvanized parts gives off especially hazardous fumes. • Remove galvanizing from area to weld. • Provide good ventilation. • Wear suitable respirator.

FIG. 5-1

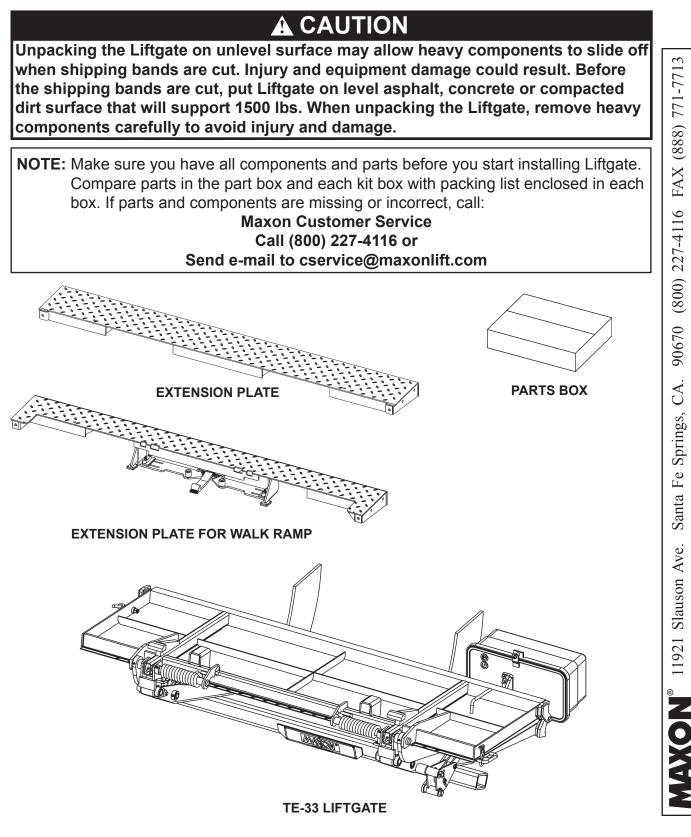
SAFETY INSTRUCTIONS

- 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





TE-33 INSTALLATION PARTS BOXES

| ITEM | NOMENCLATURE OR DESCRIPTION | QTY. | PART NUMBER |
|------|--|------|-------------|
| REF | PARTS BOX (96" WIDE VEH, GRAVITY DOWN) | 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 | TE-33 MANUAL & DECAL KIT | 1 | 269464-01 |
| 8 | INSTALLATION BRACKET | 2 | 269462-01 |
| 9 | HEX HEAD CAP SCREW, 1/2"-13 X 1-1/2" LG. | 2 | 900035-3 |
| 10 | HEX NUT, 1/2"-13 | 2 | 901011-9 |
| 11 | FLAT WASHER, 1/2" | 2 | 902000-13 |

TABLE 8-1

| ITEM | NOMENCLATURE OR DESCRIPTION | QTY. | PART NUMBER |
|------|--|------|-------------|
| REF | PARTS BOX (102" WIDE VEH, GRAVITY DOWN) | 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 | TE-33 MANUAL & DECAL KIT | 1 | 269464-01 |
| 8 | INSTALLATION BRACKET | 2 | 269462-01 |
| 9 | HEX HEAD CAP SCREW, 1/2"-13 X 1-1/2" LG. | 2 | 900035-3 |
| 10 | HEX NUT, 1/2"-13 | 2 | 901011-9 |
| 11 | FLAT WASHER, 1/2" | 2 | 902000-13 |

TABLE 8-2

TE-33 INSTALLATION PARTS BOXES - Continued

| ITEM | NOMENCLATURE OR DESCRIPTION | QTY. | PART NUMBER |
|------|---|------|-------------|
| REF | PARTS BOX (96" WIDE VEH, POWER DOWN) | 1 | 269465-03 |
| 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 | MOLDED 6-POSITION SWITCH & CABLE, 9" (POWER DOWN) | 1 | 264951-04 |
| 7 | TE-33 MANUAL & DECAL KIT | 1 | 269464-01 |
| 8 | INSTALLATION BRACKET | 2 | 269462-01 |
| 9 | HEX HEAD CAP SCREW, 1/2"-13 X 1-1/2" LG. | 2 | 900035-3 |
| 10 | HEX NUT, 1/2"-13 | 2 | 901011-9 |
| 11 | FLAT WASHER, 1/2" | 2 | 902000-13 |

TABLE 9-1

| ITEM | NOMENCLATURE OR DESCRIPTION | QTY. | PART NUMBER |
|------|---|------|-------------|
| REF | PARTS BOX (102" WIDE VEH, POWER DOWN) | 1 | 269465-04 |
| 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 | MOLDED 6-POSITION SWITCH & CABLE, 9" (POWER DOWN) | 1 | 264951-04 |
| 7 | TE-33 MANUAL & DECAL KIT | 1 | 269464-01 |
| 8 | INSTALLATION BRACKET | 2 | 269462-01 |
| 9 | HEX HEAD CAP SCREW, 1/2"-13 X 1-1/2" LG. | 2 | 900035-3 |
| 10 | HEX NUT, 1/2"-13 | 2 | 901011-9 |
| 11 | FLAT WASHER, 1/2" | 2 | 902000-13 |

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TABLE 9-2

TE-33 MANUALS & DECALS

NOTE: To find maintenance & parts information for your TE-33 Liftgate, go to www. maxonlift.com. Click the PRODUCTS, TUK-A-WAY & TE-33 buttons. Open the Maintenance Manual in the PRODUCT DOCUMENTATION window.

| 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 |
| | DECALS (SEE DECAL PAGES IN THIS MANUAL) | 1 | 220388-02 |
| | | | 251867-11 |
| | | | 264507 |
| 3 | | | 265736-01 |
| | | | 282522-01 |
| | | | 282847-02 |
| | | | 265441-01 |
| | | | 266013-02 |

STANDARD KIT TABLE 10-1

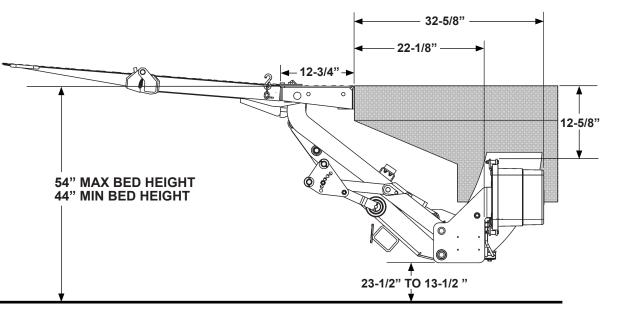
| ITEM | NOMENCLATURE OR DESCRIPTION | QTY. | PART NUMBER |
|------|---|------|---------------|
| REF | TE-33 MANUAL & DECAL KIT | 1 | 269464-01-200 |
| 1 | INSTALLATION MANUAL | 1 | M-11-06 |
| 2 | OPERATION MANUAL | 1 | M-11-07 |
| | DECALS (SEE DECAL PAGES IN THIS MANUAL) | 1 | 220388-02 |
| | | | 251867-11 |
| | | | 264507 |
| | | | 265736-01 |
| 3 | | | 282522-01 |
| | | | 282847-02 |
| | | | 265441-01 |
| | | | 266013-02 |
| | | | 285852-01 |
| | | | 285834-01 |

KIT FOR LIFTGATE EQUIPPED WITH TRAILER HITCH TABLE 10-2

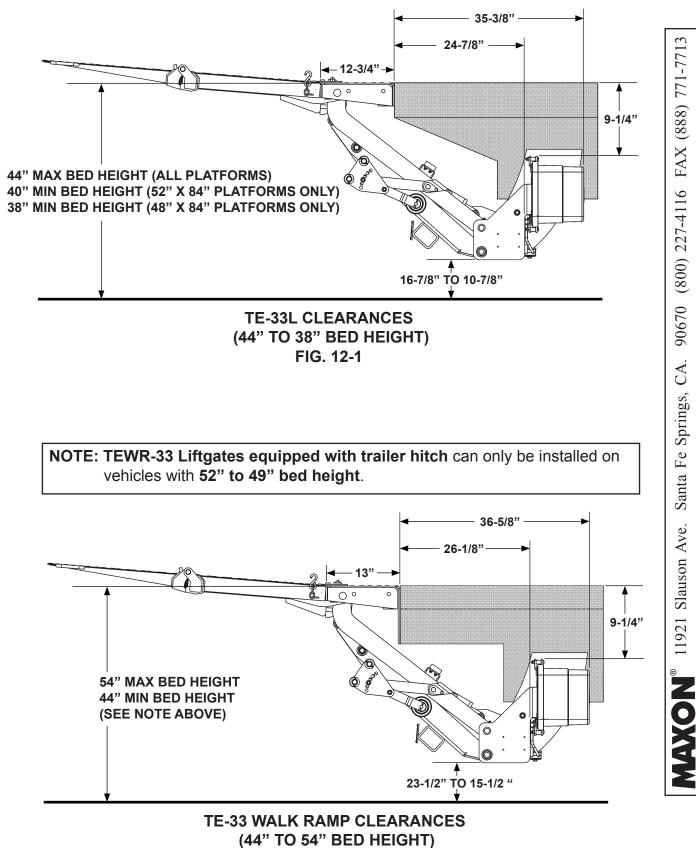
NOTE: Body Maximum and Minimum Operating Bed Height for Standard Platform: Maximum height for TE-33 (54"- 44" bed height) is 54" (Unloaded). Minimum • height is 44" (Loaded). Maximum height for TE-33L (44" - 38" bed height) is 44" (Unloaded). Minimum • height is **38**" (Loaded). Maximum height for TEWR-33 (Walk ramp, 54"- 44" bed height) is 54" (Unloaded). • Minimum height is 44" (Loaded). Maximum height for TEWR-33 equipped with trailer hitch is 52" (Unloaded). • Minimum height is 49" (Loaded). If swing door latches interfere with fit of extension plate, do not install this Liftgate on vehicle bodies equipped with swing open doors. 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.

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









2. Check for correct clearances between walk ramp, walk ramp box, and the extension plate (FIGS. 13-1A and 13-1B) to prevent interference.

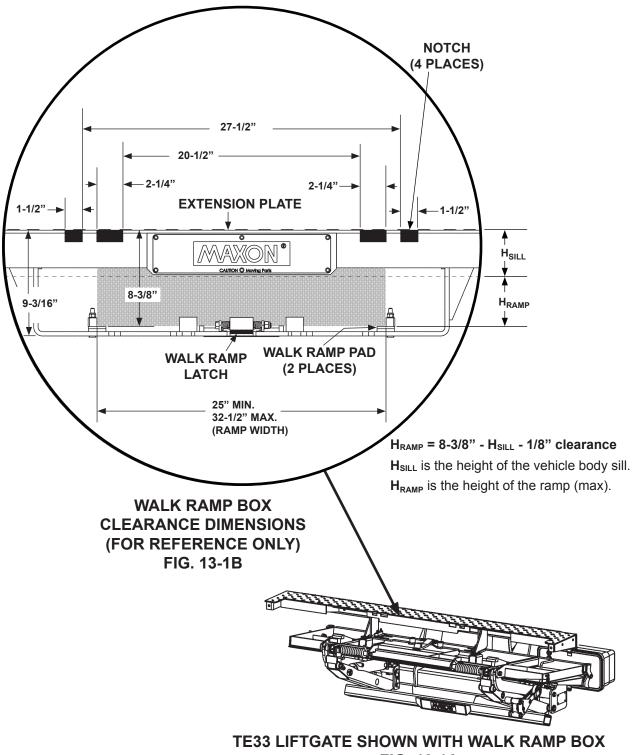


FIG. 13-1A

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

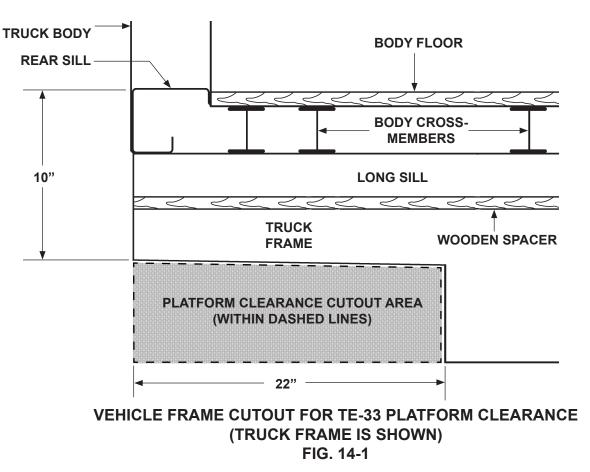
CAUTION

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

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

NOTE: The platform cutout area for truck frame, shown below, is required to prevent frame interference when platform is being stowed and unstowed. For trailers, refer to instructions supplied with trailer mounting kit for Liftgate.

3. Fit the Liftgate to vehicle body by cutting vehicle frame as shown in FIG. 14-1.



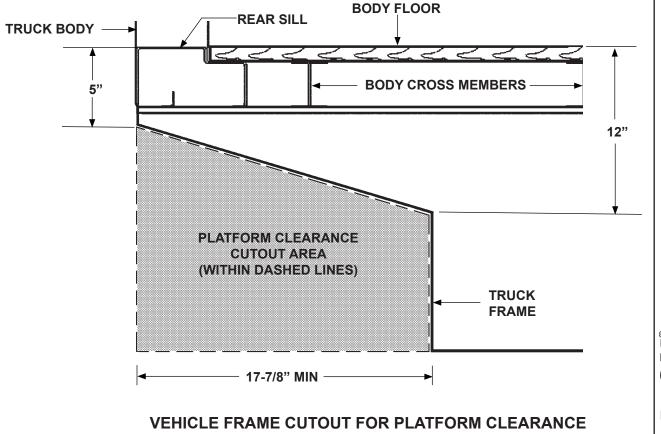
CAUTION

- 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.

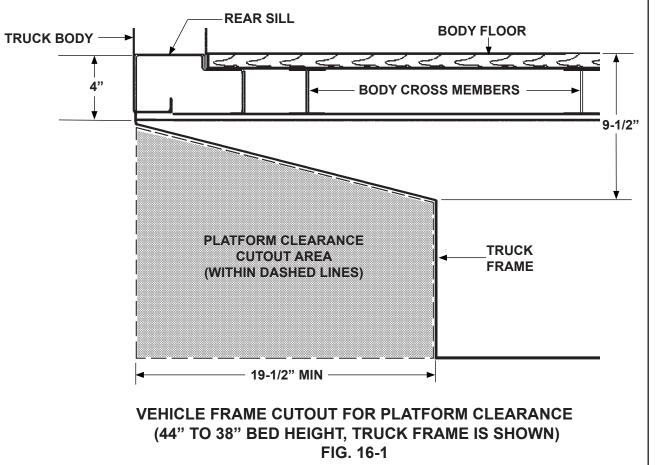
NOTE: The platform cutout area shown below applies to trucks and trailers. If the rear sill dimension is taller than 6" it may need to be modified. Check with body manufacturer before modifying the rear sill.

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



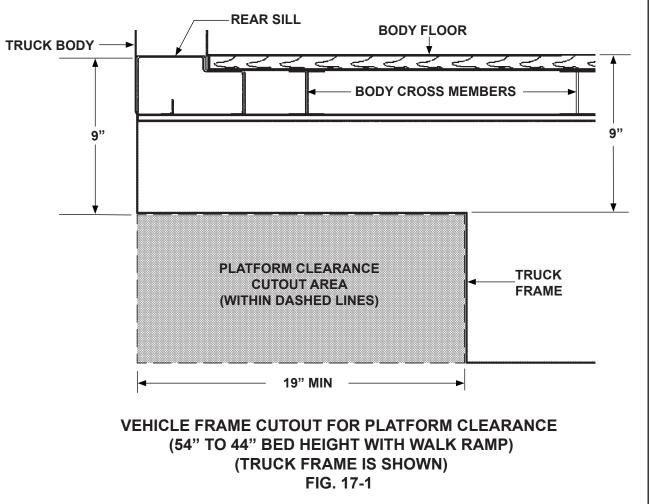
(54" TO 44" BED HEIGHT, TRUCK FRAME IS SHOWN) FIG. 15-1

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.

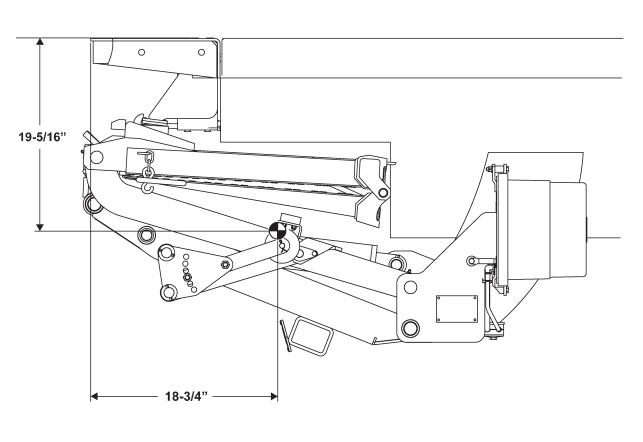


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NOTE: The platform cutout area shown below applies to trucks and trailers. If the rear sill dimension is taller than 9" it may need to be modified. Check with body manufacturer before modifying the rear sill.



CENTER OF MASS



TE-33 CENTER OF MASS (STOWED POSITION) FIG. 18-1

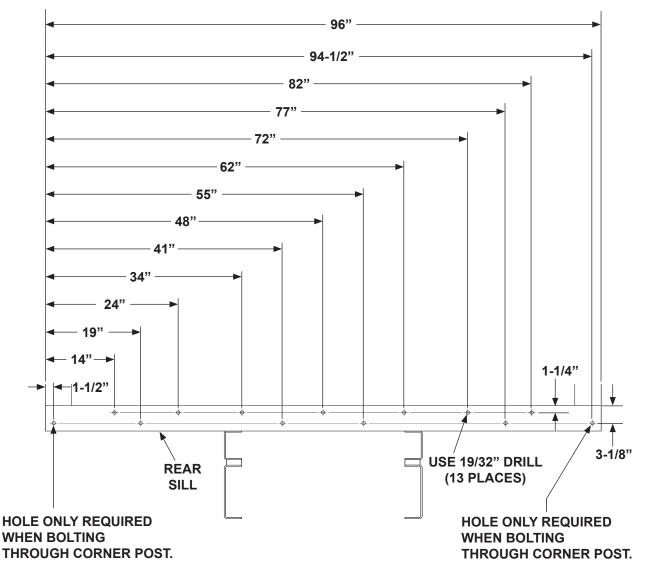
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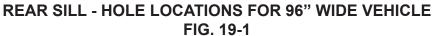
STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE

NOTE: The extension plate has bolt holes so it can be bolted to vehicle body. Grade 8 bolts are required. MAXON recommends getting the optional extension plate hardware kit listed in OPTIONS section. Vehicle body must be drilled according to instructions. If necessary, extension plate may also be welded to vehicle body. Do the following bolting or welding instructions.

BOLT EXTENSION PLATE

1. Mark and drill holes into rear sill as shown in FIGS. 19-1 and 20-1.





STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE -Continued

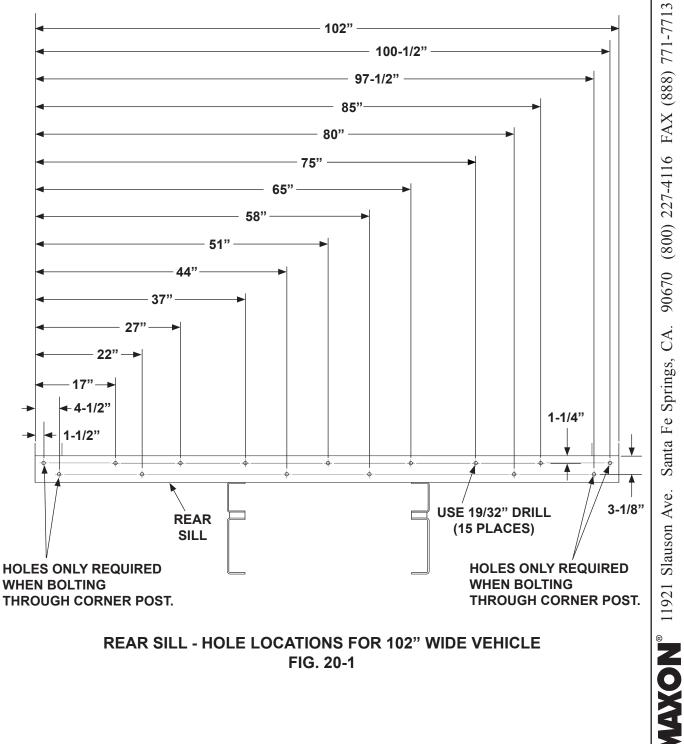
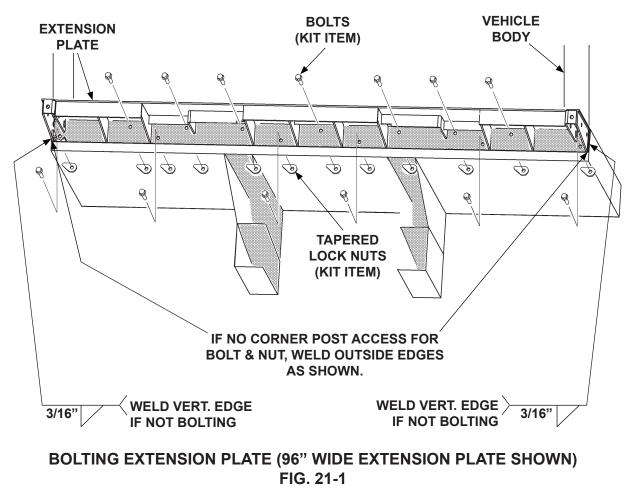


FIG. 20-1

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.
- Bolt extension plate to vehicle as shown in FIG. 21-1. 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.



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

STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE - Continued

WELD EXTENSION PLATE (ALTERNATE METHOD)

CAUTION

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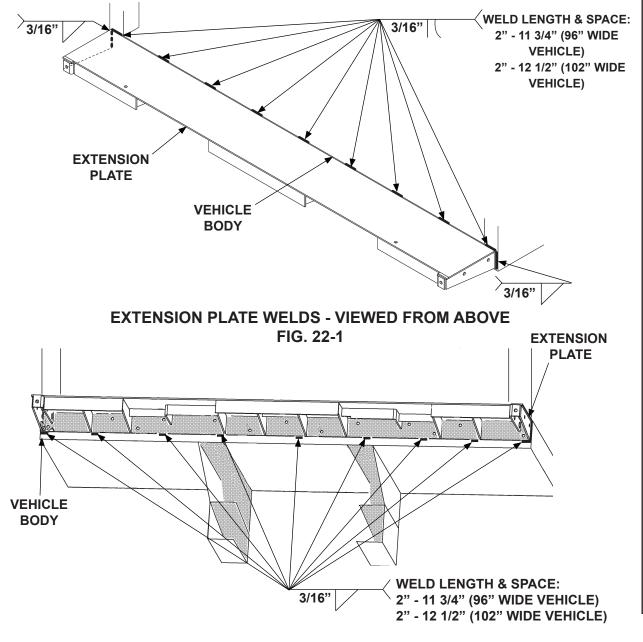
CA.

Santa Fe Springs,

MAXON[®] 11921 Slauson Ave.

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. 22-1 and 22-2.



EXTENSION PLATE WELDS - VIEWED FROM UNDERNEATH FIG. 22-2

STEP 1 - ATTACH EXTENSION PLATE TO VEHICLE -Continued

- **NOTE:** During installation of liftgate, installation brackets keep the heel of the platform level with extension plate and maintain a ³/₄" gap between extension plate and heel of platform. The extension plate has bolt holes for bolting on the installation brackets provided in parts box.
- Bolt 2 installation brackets (parts box items) on the extension plate as shown in FIG. 23-1. Tighten hex nuts securely.

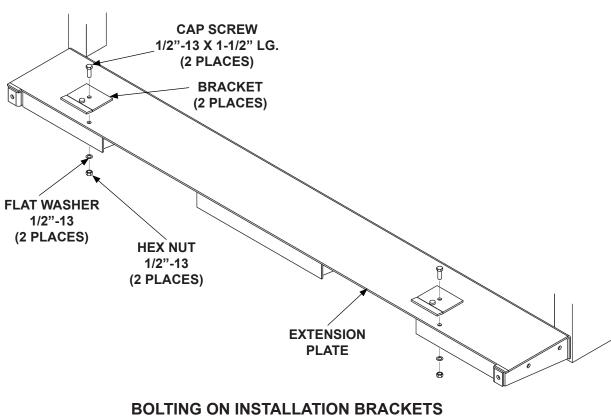


FIG. 23-1

STEP 2 - WELD LIFTGATE TO VEHICLE

1. Unfold the platform and flipover (FIG. 24-1).

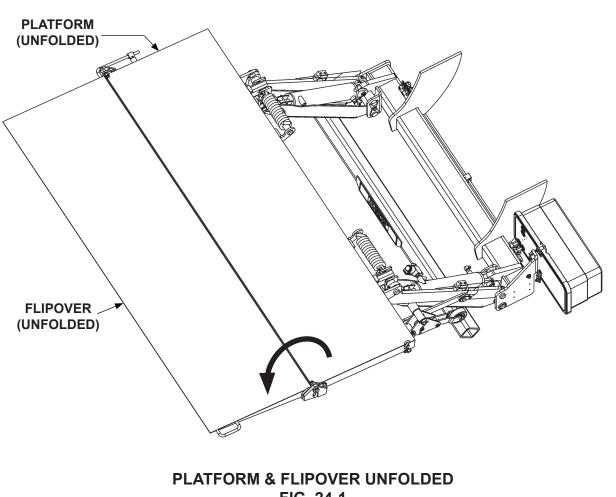


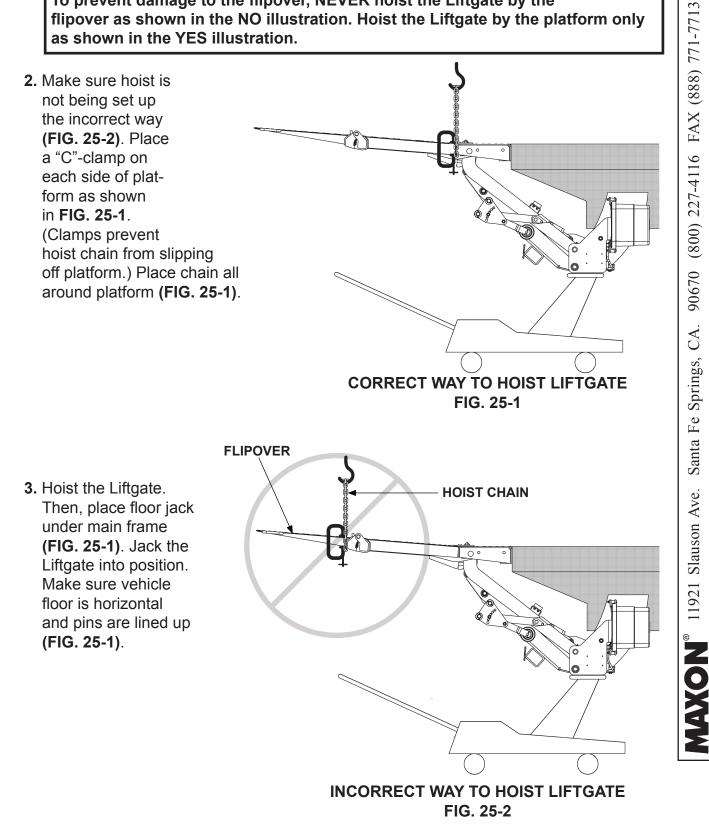
FIG. 24-1

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STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

ACAUTION

To prevent damage to the flipover, NEVER hoist the Liftgate by the flipover as shown in the NO illustration. Hoist the Liftgate by the platform only as shown in the YES illustration.



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STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

A WARNING

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

CAUTION

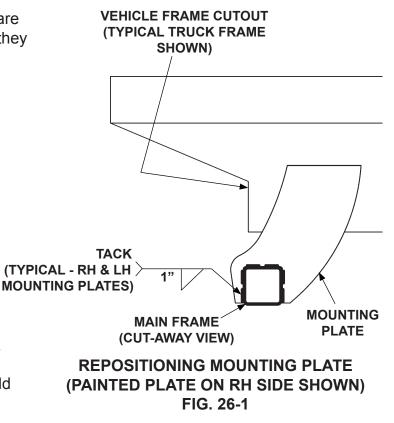
Prevent damage to hydraulic hoses. If welding next to hydraulic hoses, use a protective cover such as a welding blanket to cover the hoses.

CAUTION

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

- **NOTE:** Mounting plates on galvanized Liftgates are fully welded to main frame at the factory. Galvanized mounting plates are suitable for 34-1/4" vehicle frame width, and should not be removed and repositioned. Painted mounting plates are tack welded and can be repositioned.
- **4.** Check if both mounting plates are **painted or galvanized**, and if they line up with the vehicle frame.
 - Painted mounting plates are tack-welded and can be repositioned. Do step 4 if painted.
 - Galvanized mounting plates are fully welded and cannot be repositioned. Skip step 4 if galvanized.

If painted mounting plates do (T not line up, remove the tack Welds from one mounting plate (FIG. 26-1). Make sure Liftgate stays centered on vehicle. Reposition the mounting plate against vehicle frame. Tack weld as shown in FIG. 26-1. Repeat for second mounting plate (reposition and tack weld).



STEP 2 - WELD LIFTGATE TO VEHICLE - Continued

BODY FRAME **NOTE:** If mounting plates cross over the wood spacer on the truck frame WOOD SPACER CUT LINE or if there is interference with bottom of body frame, mounting plates must be shortened to allow full final weld (FIG. 27-1). Maintain dimension, from bed level to top of 1/2" main frame, shown in FIG. 27-2. **NOTE:** Weld both mounting plates to vehicle frame before fully welding mounting plates to main frame. **5.** Clamp both mounting plates to vehicle frame. Check the distance between bed level and top **MOUNTING PLATE TRUCK FRAME** of main frame (FIG. 27-2). Maintain the 21" (low bed height) or 24-1/2" (high bed height) dis-CHECKING MOUNTING PLATES tance shown in FIG. 27-2. Then, check mount-FOR CORRECT POSITION ing plates for correct position on truck frame **ON TRUCK FRAME** (FIG. 27-1). FIG. 27-1 6. Weld the mounting plates to vehicle frame as shown in FIG. 27-2. Next, weld both mounting plates to main frame (FIG. 27-2). Remove clamps. **BED LEVEL 2" LG. 4 PLACES** (TYPICAL - RH & LH > 1/4" **MOUNTING PLATES)** 24-1/2" (HIGH BED) 21" (LOW BED) VEHICLE FRAME (TYPICAL TRUCK FRAME SHOWN) **MOUNTING PLATE** MAIN FRAME (CUT-AWAY VIEW WELD TO VEHICLE FRAME AND MAIN FRAME (RH SIDE SHOWN)

FIG. 27-2

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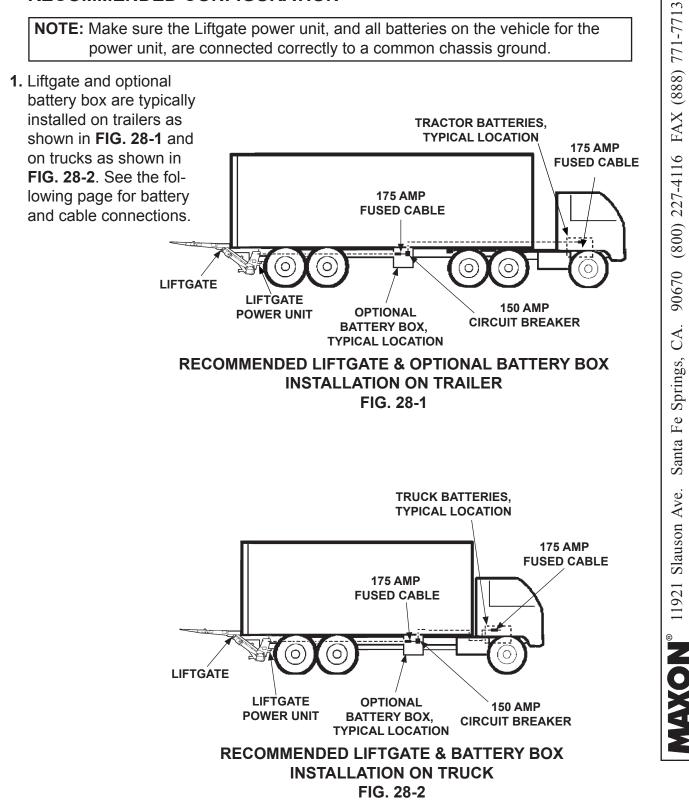
Santa Fe Springs, CA.

11921 Slauson Ave.

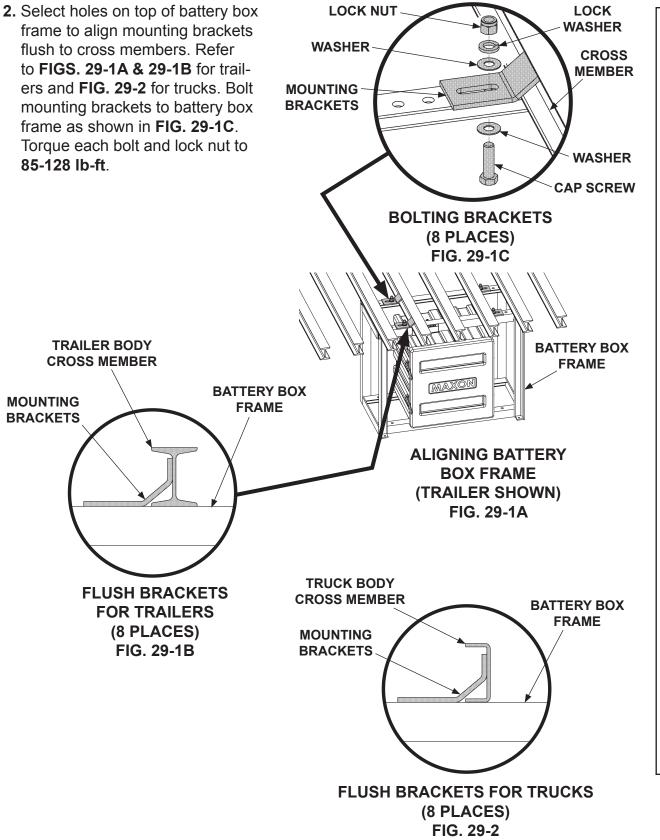
NOXAN

RECOMMENDED CONFIGURATION

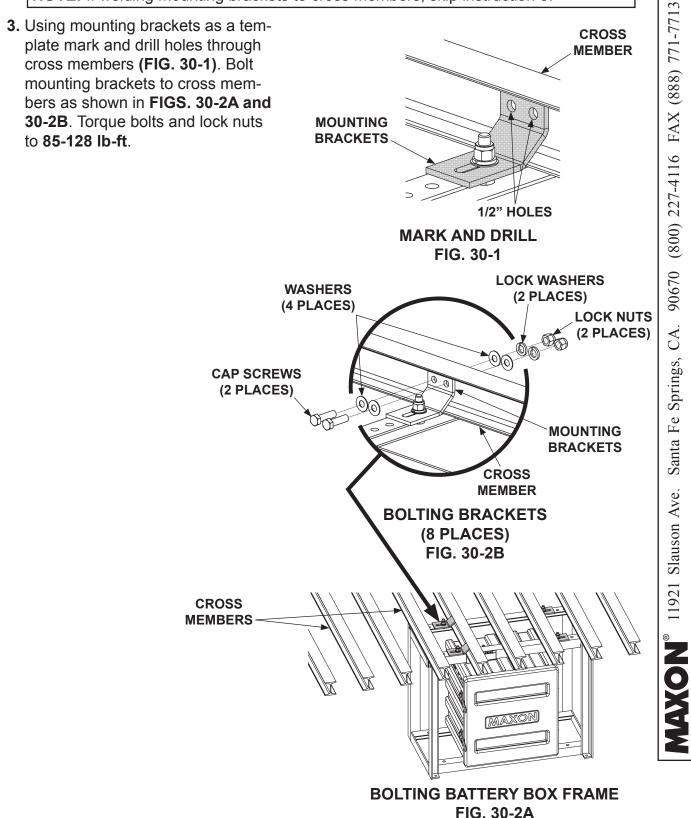
NOTE: Make sure the Liftgate power unit, and all batteries on the vehicle for the power unit, are connected correctly to a common chassis ground.



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



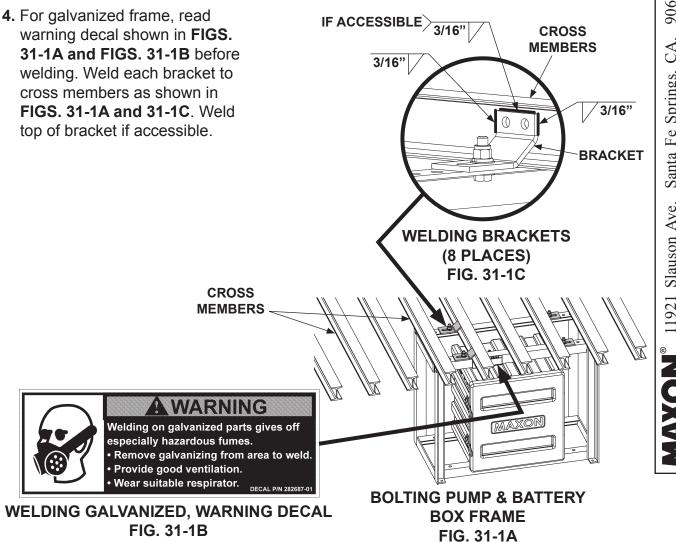
Recommended practices for welding on steel parts are contained in the current AWS (American Welding Society) D1.1 Structural Welding Code - Steel. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.

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.



A WARNING

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

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

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

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

5. Connect battery cables, fused cables, and ground cables as shown in FIG. 32-1.

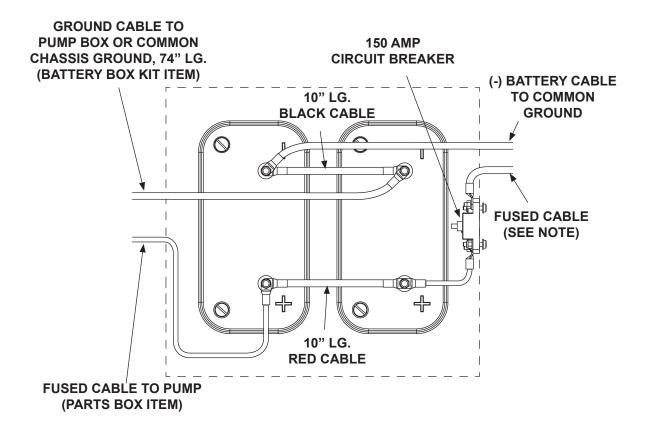


FIG. 32-1

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

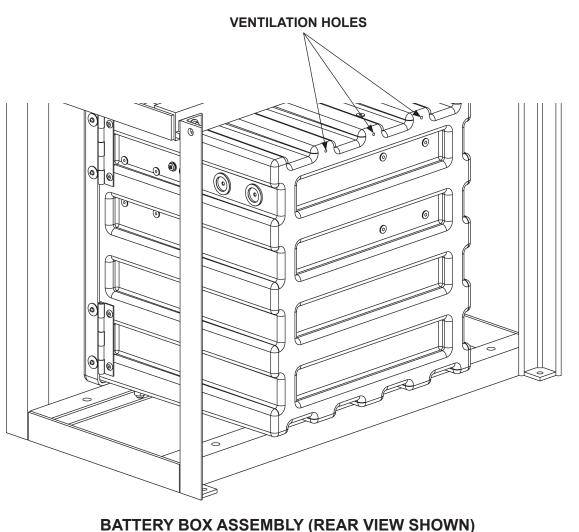
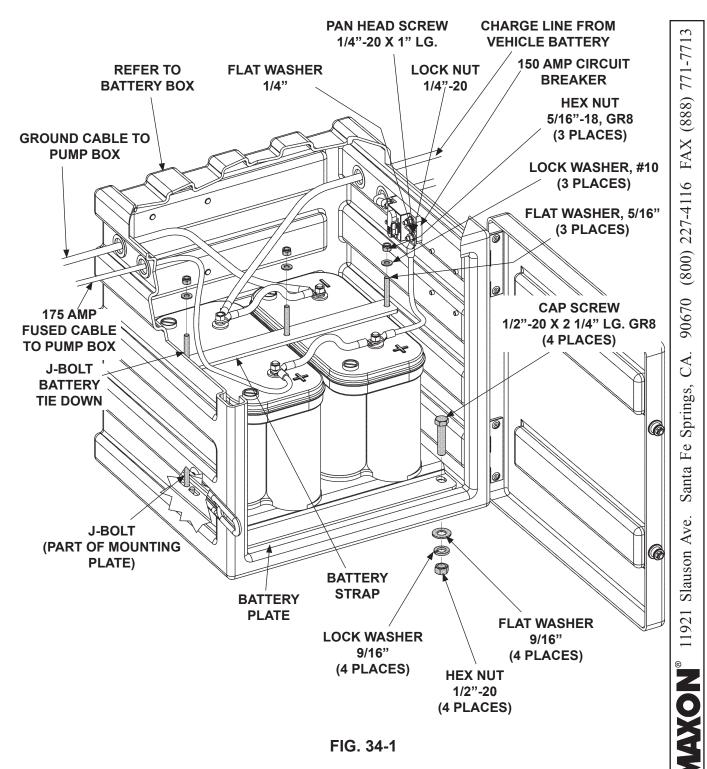


FIG. 33-1



STEP 4 - RUN POWER CABLE

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

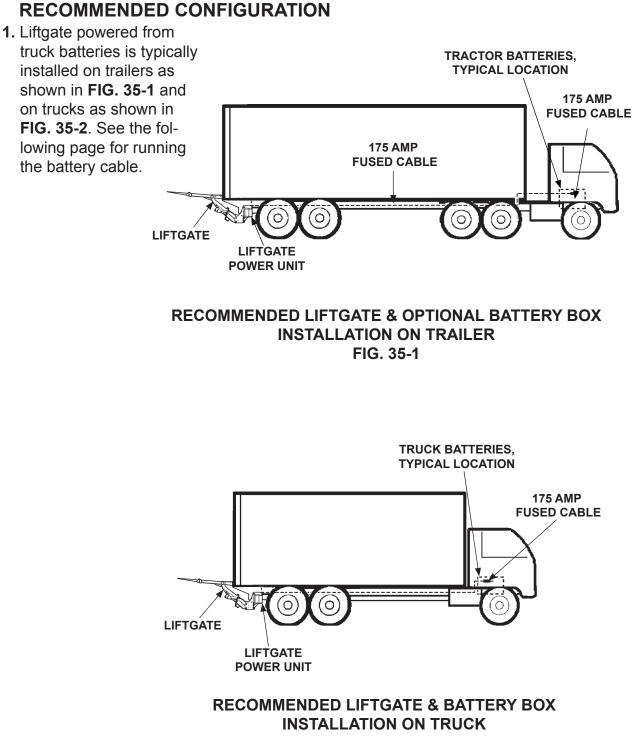


FIG. 35-2

STEP 4 - RUN POWER CABLE - Continued

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.

NOTE: If optional battery box was installed in **STEP 3**, run fused cable from vehicle battery to optional battery box.

2. Install fused cable by running the cable along the inside of vehicle frame (FIG. 36-1). Make sure 175 amp fuse (FIG. 36-1) end of cable is by the vehicle battery. Run the cable 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.

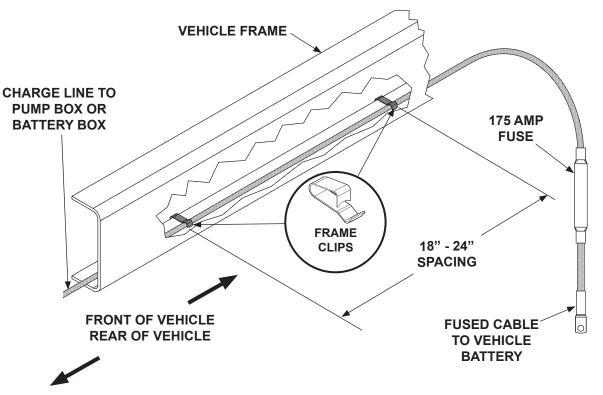
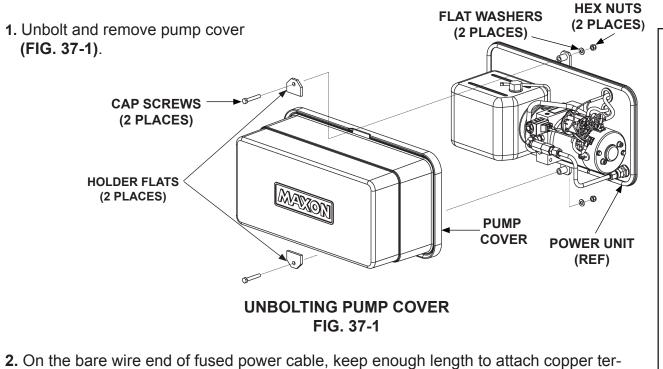


FIG. 36-1

STEP 5 - CONNECT POWER CABLE



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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. 37-2A). Cut excess cable from bare wire end of cable. Put heatshrink tubing (parts bag item) (FIG. 37-2B) 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. 37-2C).

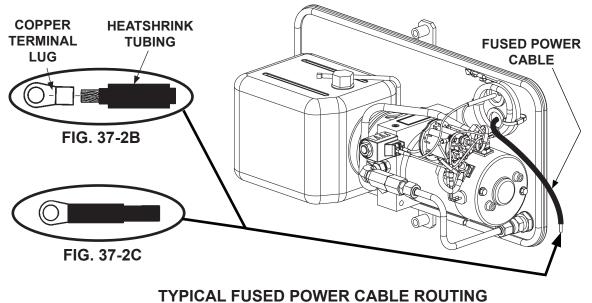


FIG. 37-2A

STEP 5 - CONNECT POWER CABLE - Continued

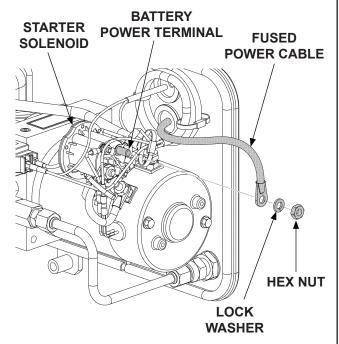
CAUTION

To prevent damage to metal case starter solenoid, hold bottom terminal nut securely with wrench when loosening and tightening top terminal nut. Do not over-tighten the terminal nuts. For the 5/16" load terminals, torque nuts to 35 lbs.-in. Torque the nuts on #10-32 control terminals to 15 lbs.-in.

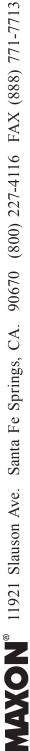
NOTE: MAXON recommends using dielectric grease on all electrical connections. Do not apply dielectric grease until after connection is complete.

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

 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.
38-1. Reinstall and tighten lock washer and hex nut.



TYPICAL FUSED POWER CABLE ELECTRICAL CONNECTION FIG. 38-1



STEP 6 - INSTALL CONTROL SWITCH

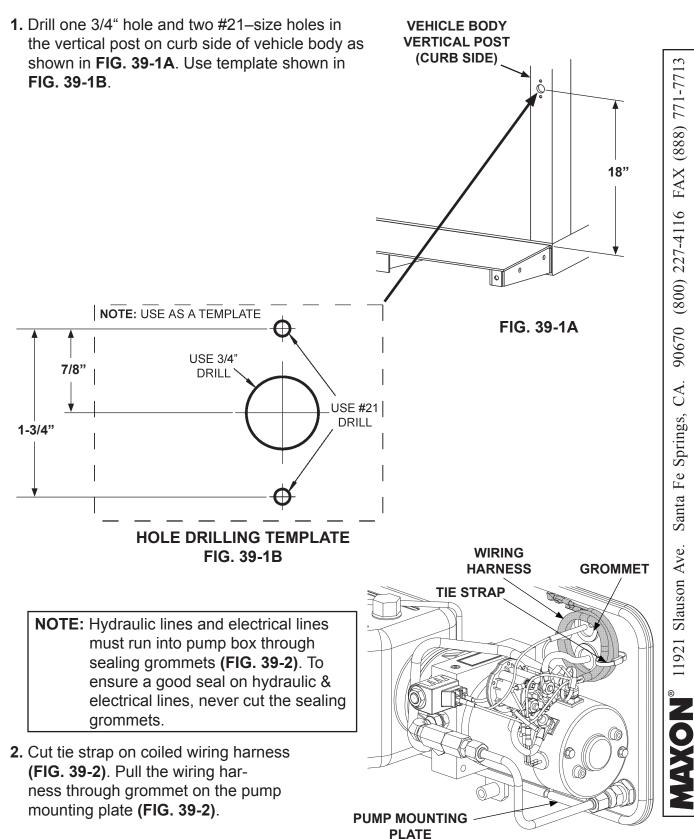
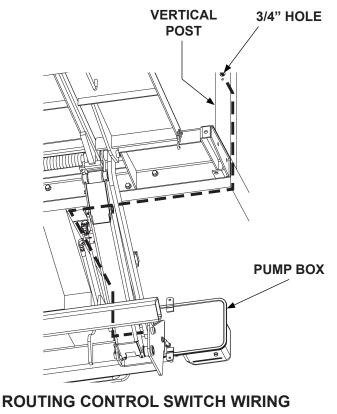


FIG. 39-2

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. 40-1) and up through inside of vertical post. Pull control switch wiring harness out the 3/4" hole drilled in vertical post (FIG. 40-1). Connect the control switch wiring to the wiring harness as shown in FIG. 40-2. Push extended wiring back into the 3/4" hole in the vertical post until control switch touches the post. Attach control switch to vertical post with 2 selftapping screws (FIG. 40-2).



4. If necessary, use clamps and tapping screws, from installation parts bag, to secure switch wiring harness to vehicle (FIG. 40-1).

FIG. 40-1

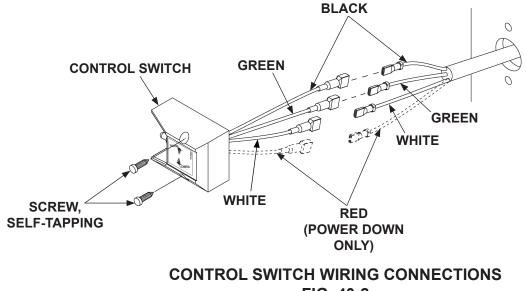


FIG. 40-2

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 42-1 & 42-2 for recommended brands.

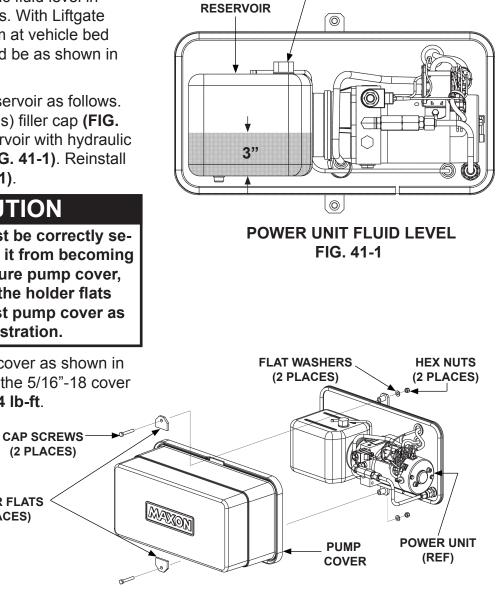
- **1.** Check the hydraulic fluid level in reservoir as follows. With Liftgate stowed, or platform at vehicle bed height, level should be as shown in FIG. 41-1.
- 2. Add fluid to the reservoir as follows. Pull out (no threads) filler cap (FIG. 41-1). Fill the reservoir with hydraulic fluid to 3" level (FIG. 41-1). Reinstall filler cap (FIG. 41-1).

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. 41-2. Torque the 5/16"-18 cover bolts from 10 to 14 lb-ft.

> HOLDER FLATS (2 PLACES)



FILLER CAP

BOLTING PUMP COVER FIG. 41-2

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STEP 7 - ADDING HYDRAULIC FLUID - Continued

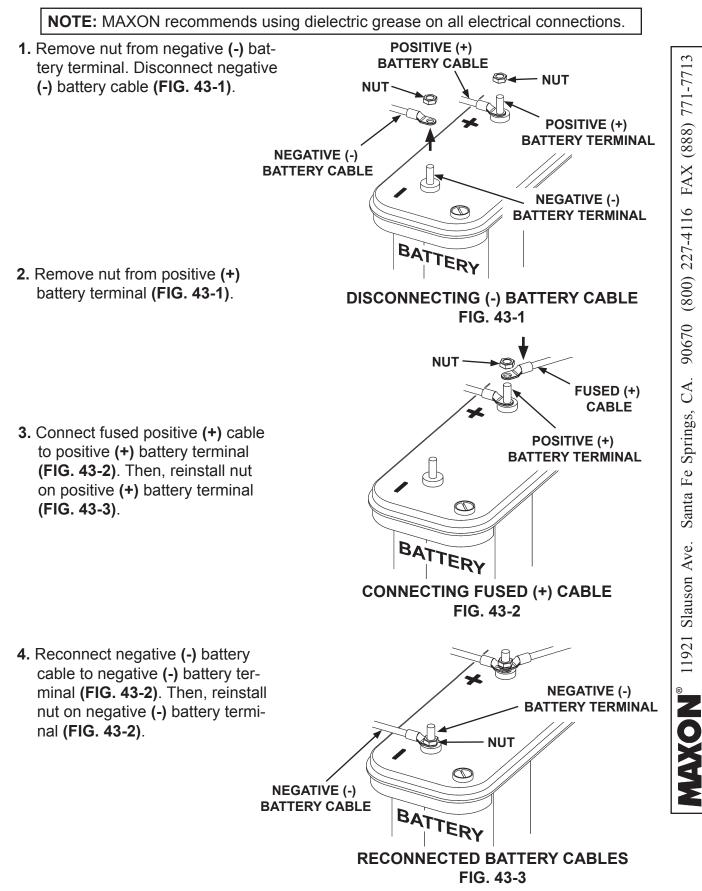
| ISO 32 HYDRAULIC OIL | | | |
|-----------------------|--------------------------------------|--|--|
| RECOMMENDED BRANDS | PART NUMBER | | |
| CHEVRON | HIPERSYN 32 | | |
| KENDALL | GOLDEN MV | | |
| SHELL | TELLUS S2 V32 | | |
| MOBIL | DTE-13M, DTE-24, HYDRAULIC OIL-13 | | |
| EXXON | UNIVIS N-32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

TABLE 42-1

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

TABLE 42-2

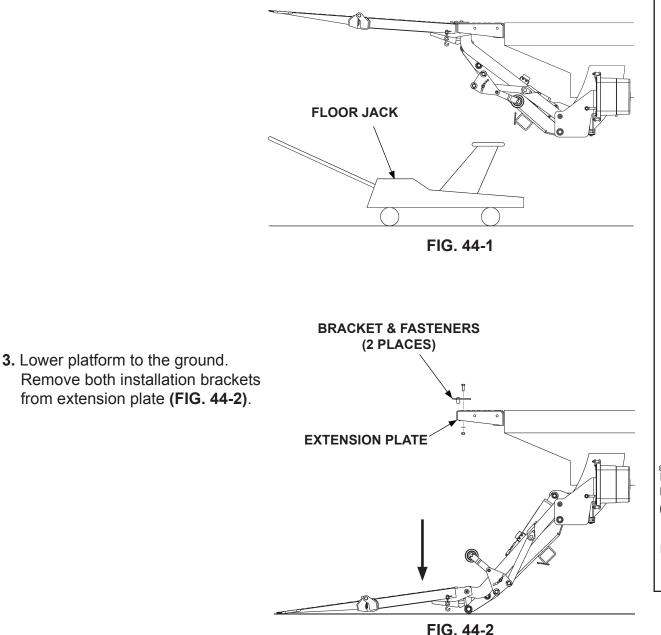
STEP 8 - CONNECT POWER CABLE TO BATTERY



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. Remove floor jack and hoist supporting Liftgate (FIG. 44-1).



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NOTE: To operate Liftgate, locking brackets must be removed from cylinders.

4. Remove locking brackets from LH and RH cylinder (FIG. 45-1).

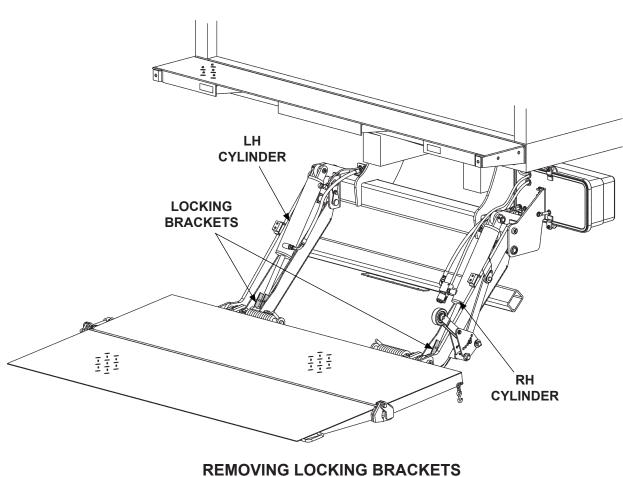
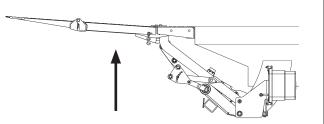


FIG. 45-1

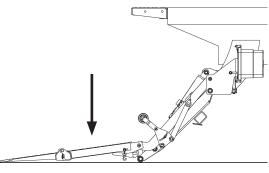
NOTE: Correct any interference problems before continuing with installation.

 Raise platform to bed height (FIG. 46-1). Then, lower platform to the ground (FIG. 46-2). Look for any interference between liftgate and vehicle as platform is raised and lowered.





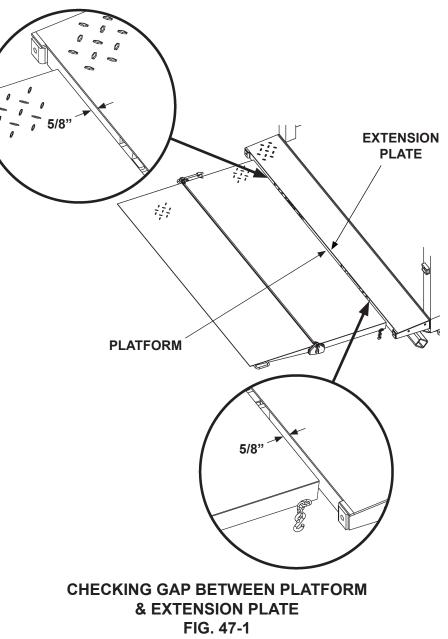
6. If the platform lowers with a "jerking" motion, bleed air from the hydraulic system by doing the following. Push the control switch to the **DOWN** position until you hear air escaping into the hydraulic fluid reservoir. Then, raise the platform (FIG. 46-1). Repeat this step until there is no air left in the system and platform lowers smoothly (FIG. 46-2).

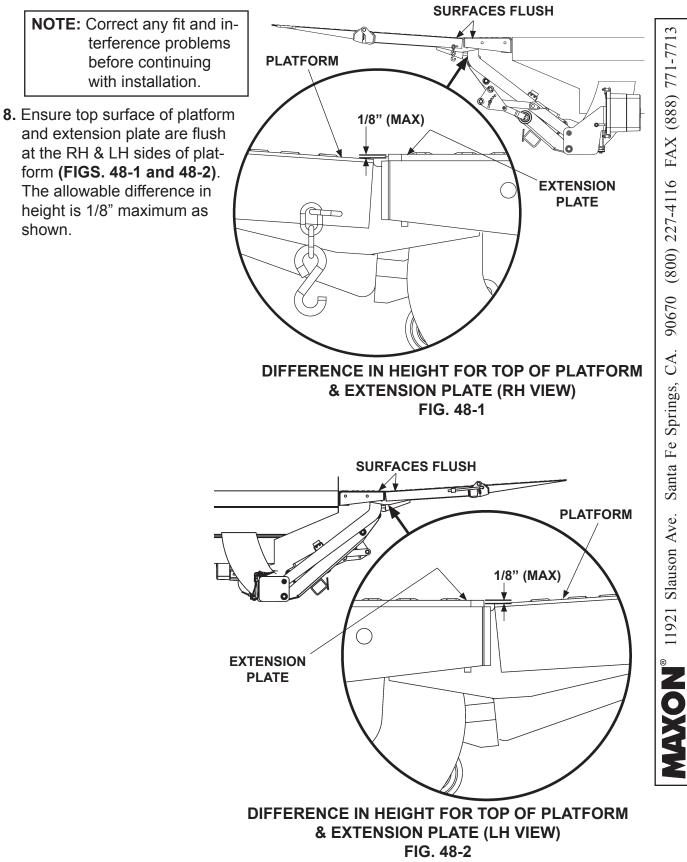


LOWERING PLATFORM FIG. 46-2

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

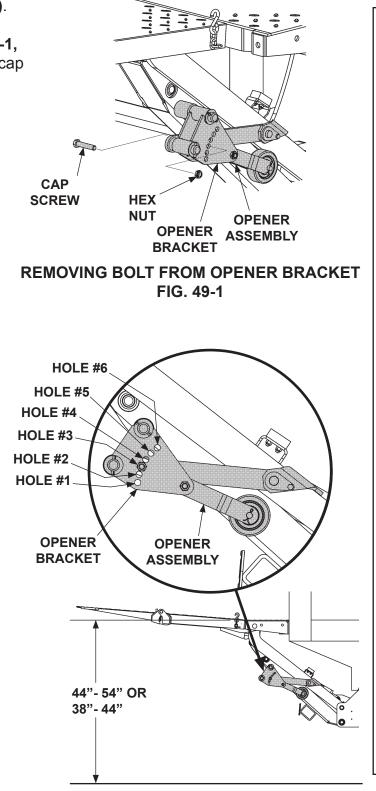






STEP 10 - ADJUST PLATFORM OPENER

To adjust openers, remove cap screw and hex nut from opener bracket (FIG. 49-1). Rotate opener assembly to the correct hole position (FIG. 49-2 and TABLE 49-1, FIG. 50-1, and TABLE 50-1). Reinstall cap screw and nut.



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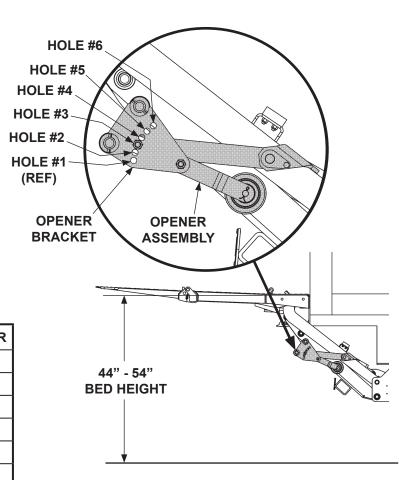
POSITIONING OPENER FOR 38"- 44" BED HEIGHT OR 44"- 54" BED HEIGHT FIG. 49-2

| NOTE: Hole positions are ap- |
|------------------------------|
| proximate and may have |
| to be adjusted up 1 hole |
| or down 1 hole for best |
| opener function on your |
| vehicle. |

| TRUCK BED HEIGHT | HOLE NUMBER |
|--|-------------|
| 52" - 54" | HOLE #6 |
| 51" - 53" | HOLE #5 |
| 50" - 52" | HOLE #4 |
| 49" - 51" | HOLE #3 |
| 48" - 50" | HOLE #2 |
| 51" - 53" | HOLE #1 |
| 40" - 44" (26" X 26" PLATFORM ONLY) | HOLE #3 |
| 38" - 44" (24" X 24" PLATFORM ONLY) | HOLE #1 |

BOLT HOLE CHART FOR 38"- 44" BED HEIGHT & 44"- 54" BED HEIGHT TABLE 49-1

STEP 10 - ADJUST PLATFORM OPENER - Continued



| TRUCK BED HEIGHT | HOLE NUMBER |
|--|-------------|
| 52" - 54" | HOLE #6 |
| 51" - 53" | HOLE #5 |
| 50" - 52" | HOLE #4 |
| 49" - 51" | HOLE #3 |
| 46" - 50" | HOLE #2 |
| 44" - 47" (24" X 24" PLATFORM ONLY) | HOLE #1 |

POSITIONING OPENER FOR 44"- 54" BED HEIGHT WITH WALK RAMP FIG. 50-1

| | MP | | | |
|-------|--------------|--|----------|-----------|
| 11921 | Slauson Ave. | 11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227 | A. 90670 | (800) 227 |

7-4116 FAX (888) 771-7713

BOLT HOLE CHART FOR 44"- 54" BED HEIGHT WITH WALK RAMP TABLE 50-1

STEP 11 - ADJUST PLATFORM (IF REQUIRED)

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

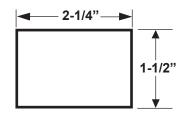
 Make sure platform is at ground level. Unfold the platform and flipover. As the platform first touches the ground, shackles and tip of flipover must touch the ground at the same time (FIG. 51-1). If the shackles and the tip of flipover touch the ground at the same time, RAISE platform to bed height. Tip of flipover should be above bed level (FIG. 51-2). If indications are correct in both cases (FIGS. 51-1 & 51-2), 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. 51-3), do instruction 2. If the shackle touches first (FIG. 49-1), skip instruction 2 and do 3.

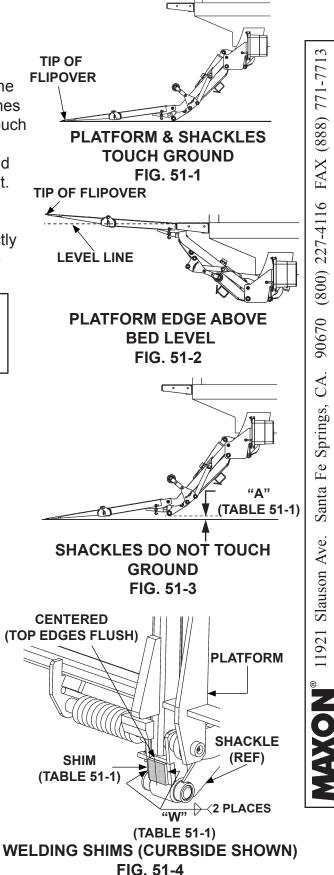
 Make sure platform is still at ground level. If the shackle is not touching the ground, measure and compare distance "A" (FIG. 51-3) with TABLE 51-1 to determine the correct shim. Make shims as needed (FIG. 51-5). Weld shim as shown in FIG. 51-4.

| 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" |





SHIM (1/16", 1/8", 3/16", or 1/4") MADE FROM STEEL FLAT FIG. 51-5



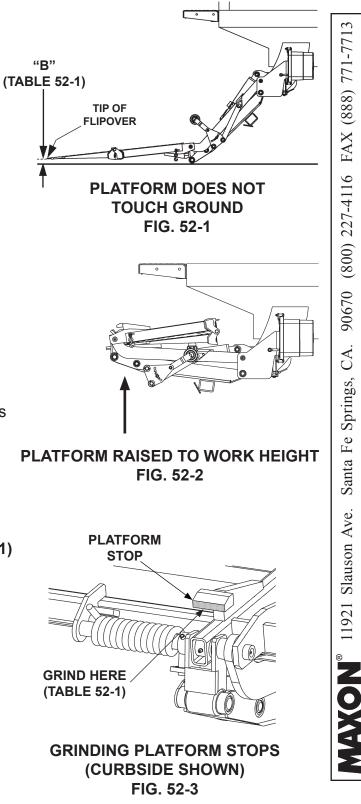
STEP 11 - ADJUST PLATFORM (IF REQUIRED) - Continued

 Make sure platform is still at ground level. If the tip of flipover is not touching the ground, measure and compare distance "B" (FIG. 52-1) with TABLE 52-1 to determine how much to grind from the platform stops (FIG. 52-3).

| 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 52-1

- **4. RAISE** the platform to comfortable work height. Fold flipover and platform for access to platform stops (**FIG. 52-2**).
- **5.** Grind correct amount of metal **(TABLE 52-1)** from platform stop as shown in **FIG. 52-3**.
- 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. 51-1**.



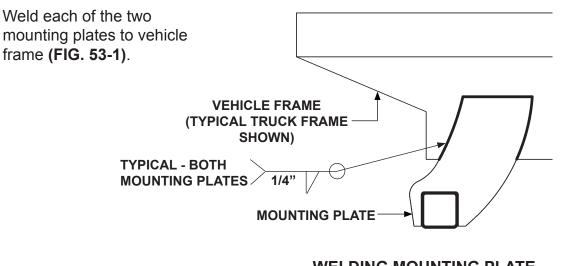
STEP 12 - FINISH WELDING LIFTGATE TO VEHICLE

CAUTION

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

CAUTION

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



WELDING MOUNTING PLATE FIG. 53-1

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.

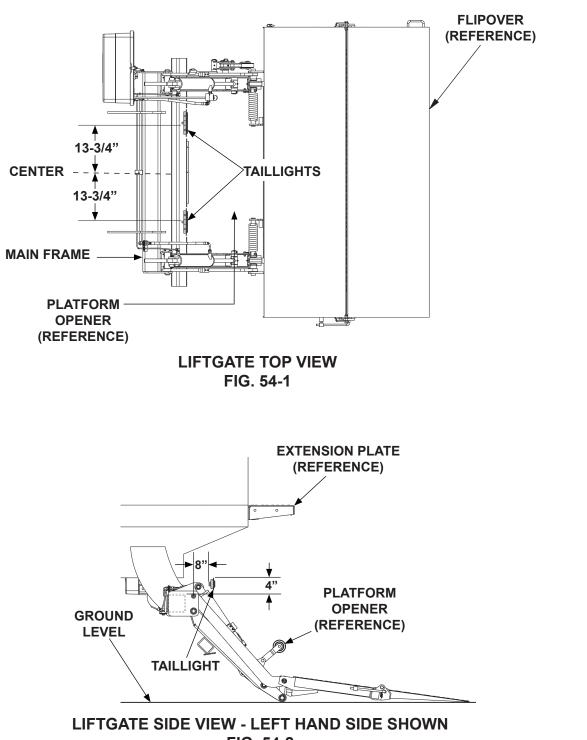
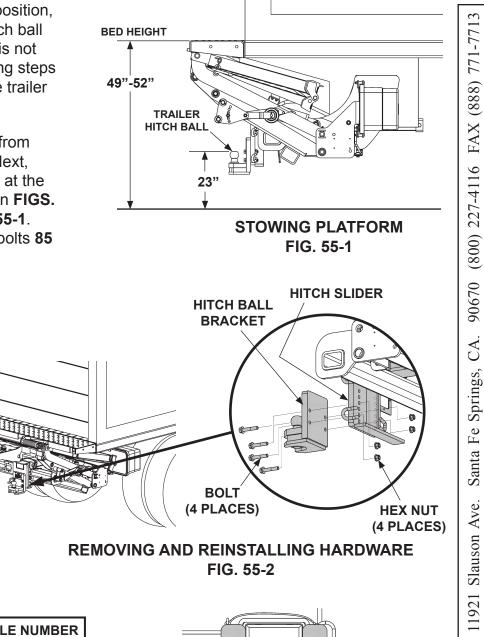


FIG. 54-2

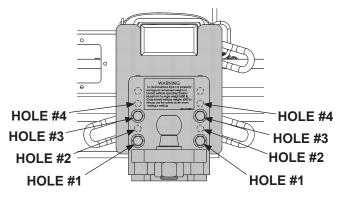
STEP 14 - ADJUST TRAILER HITCH (IF EQUIPPED)

- With platform in stowed position, check height of trailer hitch ball (FIG. 55-1). If the height is not 23", complete the following steps to adjust the height of the trailer hitch.
- Unbolt hitch ball bracket from hitch slider (FIG. 55-2). Next, bolt the hitch ball bracket at the correct height as shown in FIGS. 55-2, 55-3, and TABLE 55-1. Then, torque the 4 hitch bolts 85 to 128 lb-ft force.



| TRUCK BED HEIGHT | HOLE NUMBER |
|------------------|-------------|
| 49" | HOLE #1 |
| 50" | HOLE #2 |
| 51" | HOLE #3 |
| 52" | HOLE #4 |

TABLE 55-1

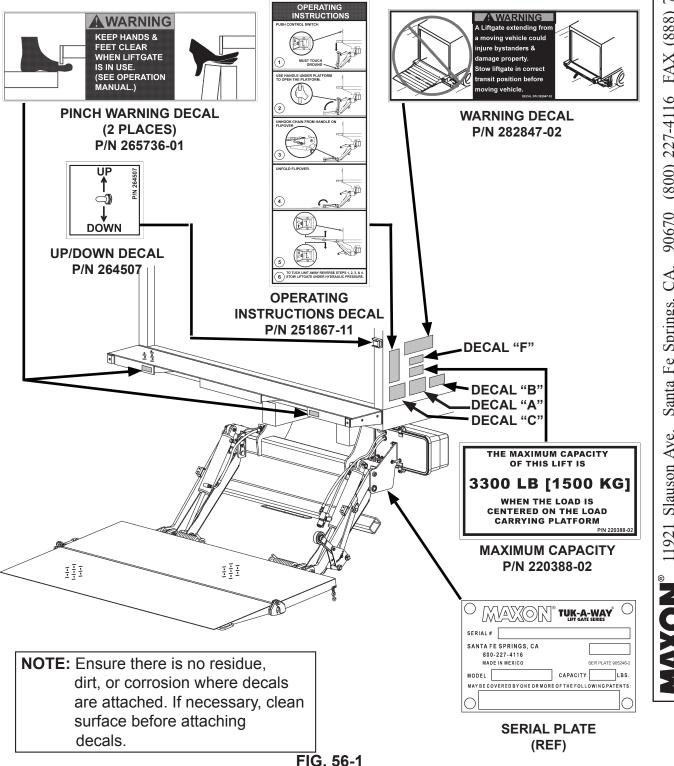


NOXM

ADJUSTING TRAILER HITCH BALL HEIGHT FIG. 55-3

ATTACH DECALS: TE-33

NOTE: Preferred decal layout is shown, Decals on the Liftgate are attached at the factory. If vehicle does not permit this layout, decals in the manual and decal kit must be applied so that they are easily visible when approaching vehicle to operate Liftgate. Use good common sense when locating these decals on vehicle.



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ATTACH DECALS - Continued

WARNING

Liftgate hazards can result in crushing or falling.

Keep hands and feet clear of

is stable and footing is solid.

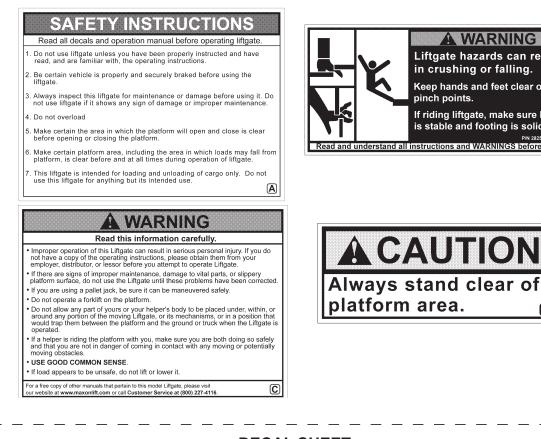
instructions and WARNINGS

If riding liftgate, make sure load

P/N 282522-01

F

pinch points.



DECAL SHEET P/N 282522-01

FIG. 57-1

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

T

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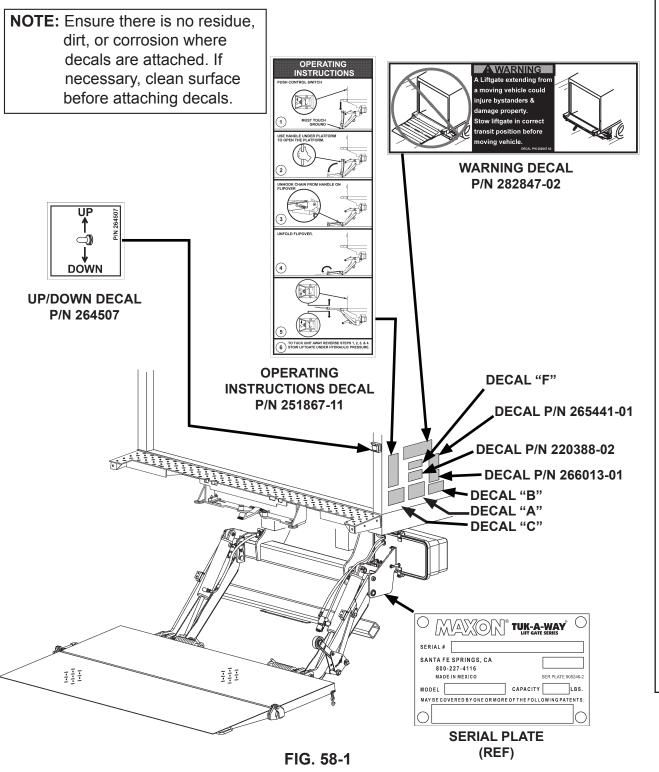
I

I I

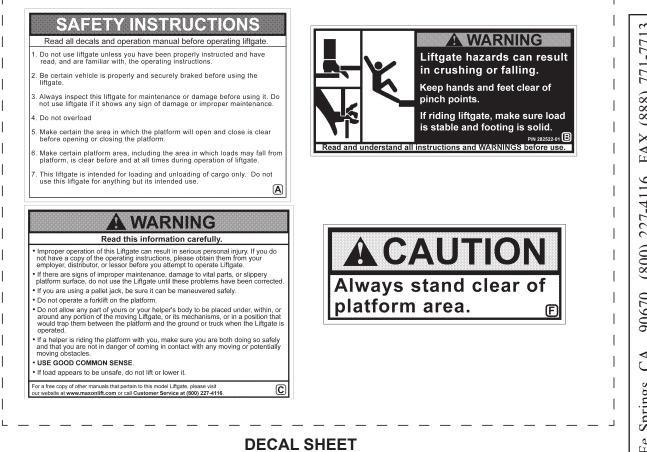
I

ATTACH DECALS: TEWR-33

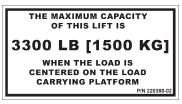
NOTE: Preferred decal layout is shown, Decals on the Liftgate are attached at the factory. If vehicle does not permit this layout, decals in the manual and decal kit must be applied so that they are easily visible when approaching vehicle to operate Liftgate. Use good common sense when locating these decals on vehicle.



ATTACH DECALS: TEWR-33 - Continued



DECAL SHEET P/N 282522-01



MAXIMUM CAPACITY P/N 220388-02

AWARNING



NEVER OPERATE LIFTGATE WHEN WALK RAMP IS EXTENDED. ALWAYS STOW RAMP BEFORE OPERATING LIFTGATE. DECAL, P/N 255441-01

WARNING DECAL P/N 265441-01



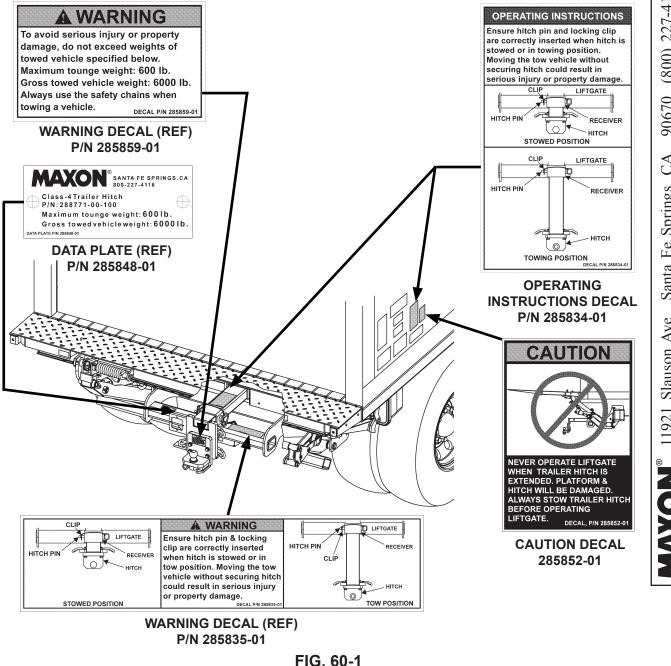
771-7713 (888)FAX 227-4116 (800)90670 CA. Springs, Fe Santa Ave. Slauson 11921 NOXA

ATTACH DECALS: TRAILER HITCH (IF EQUIPPED)

NOTE: Preferred decal layout is shown, Decals on the Liftgate are attached at the factory. If vehicle does not permit this layout, decals in the manual and decal kit must be applied so that they are easily visible when approaching vehicle to operate Liftgate. Use good common sense when locating these decals on vehicle.

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

NOTE: Data plate and decals on the hitch are attached by manufacturer. Installer must attach decals, from manual & decal kit, on vehicle body.



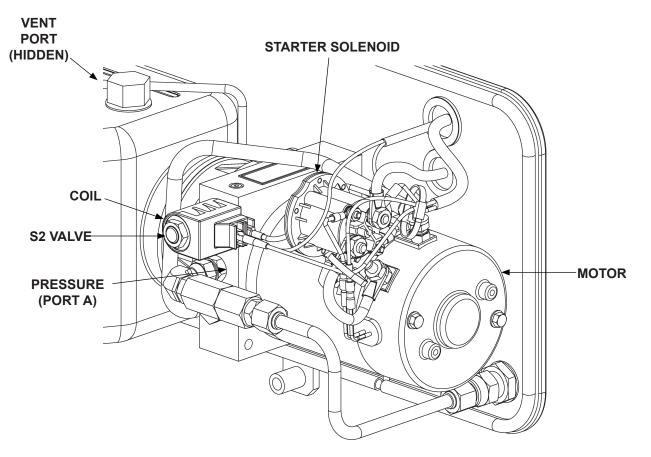
TOUCHUP PAINTED OR GALVANIZED FINISH

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.

SYSTEM DIAGRAMS PUMP & MOTOR SOLENOID OPERATION (GRAVITY DOWN)

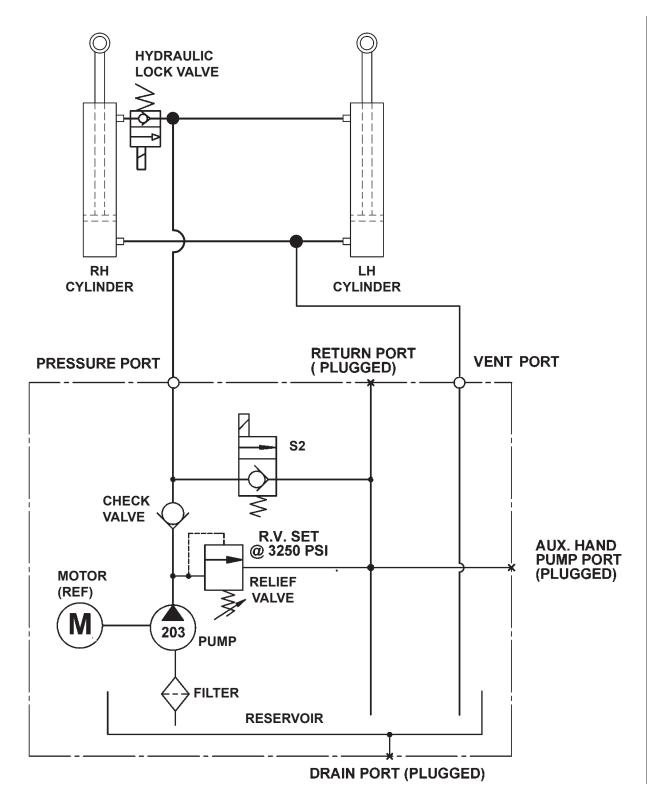


POWER UNIT FIG. 62-1

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

TABLE 62-1

HYDRAULIC SYSTEM DIAGRAMS HYDRAULIC SCHEMATIC (GRAVITY DOWN)



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FIG. 63-1

ELECTRICAL SYSTEM DIAGRAMS ELECTRICAL SCHEMATIC (GRAVITY DOWN)

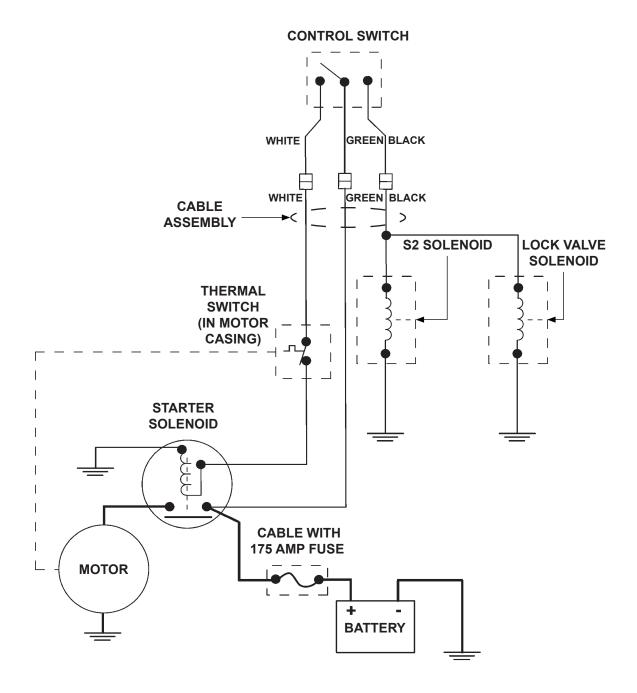
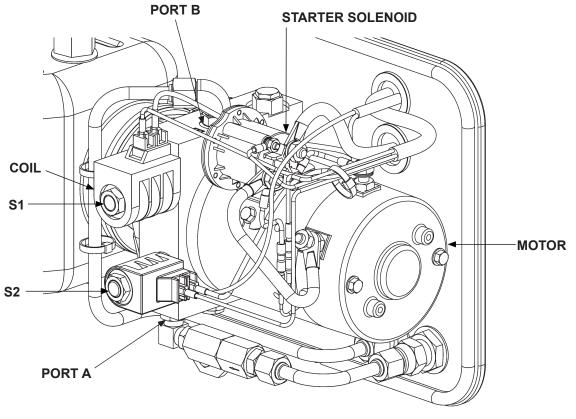


FIG. 64-1

SYSTEM DIAGRAMS PUMP & MOTOR SOLENOID OPERATION (POWER DOWN)



POWER UNIT FIG. 65-1

| POWER UNIT MOTOR & SOLENOID OPERATION | | | | | |
|---------------------------------------|---------------------|------------------------|----------|----------|--------------------------------|
| SOLENOID OPERATION | | | | | |
| LIFTGATE | (✓ MEANS ENERGIZED) | | | | |
| FUNCTION | 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 65-1

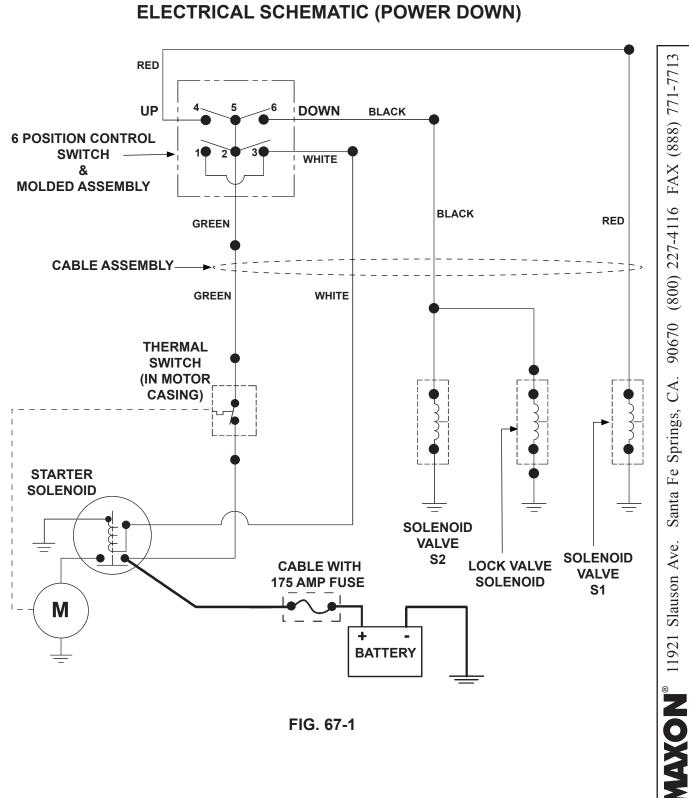
HYDRAULIC SYSTEM DIAGRAMS HYDRAULIC SCHEMATIC (POWER DOWN) **HYDRAULIC** LOCK VALVE RH LH CYLINDER CYLINDER PORT B **PORT A** S2 ⊡)⊘ \Diamond hM R.V. 2 SET @ 1100 PSI S1 🖂 W R.V. 1 SET AUX. @ 3200 PSI HAND PUMP PORT MOTOR Μ (REF) 203 PUMP FILTER RESERVOIR -

90670 (800) 227-4116 FAX (888) 771-7713

Santa Fe Springs, CA.

MAXON[®] 11921 Slauson Ave.

FIG. 66-1



ELECTRICAL SYSTEM DIAGRAMS

FIG. 67-1

OPTIONS OPTIONAL LIFTGATE COMPONENTS

| STEP KITS | PART NO. | GD | PD |
|--|------------|----|----|
| DUAL STEP, NO BUMPERS (44" - 54" BED HEIGHT) | 285479-01 | Х | Х |
| DUAL STEP, NO BUMPERS, GALVANIZED (44" - 54" BED HEIGHT) | 285479-01G | X | Х |
| DUAL STEP, WITH 24" BUMPERS (44" - 54" BED HEIGHT) | 285479-03 | Х | Х |
| DUAL STEP, WITH 24" BUMPERS, GALVANIZED (44" - 54" BED HEIGHT) | 285479-03G | Х | Х |
| DUAL STEP WR, WITH 7" BUMPERS (44" - 54" BED HEIGHT) | 285479-02 | Х | Х |
| DUAL STEP, WR, WITH 7" BUMPERS, GALVANIZED (44" - 54" BED HEIGHT) | 285479-02G | Х | Х |
| DUAL STEP, W/LOWER FLEX STEP & 2-1/2" RUBBER BUMPER, GALVANIZED | 285479-04G | | |
| SINGLE STEP, NO BUMPERS (38" - 44" BED HEIGHT) | 285895-03 | Х | Х |
| SINGLE STEP, NO BUMPERS, GALVANIZED (38" - 44" BED HEIGHT) | 285895-03G | Х | Х |
| SINGLE STEP, WITH 18-3/4" BUMPERS (38" - 44" BED HEIGHT) | 285895-04 | Х | Х |
| SINGLE STEP, WITH 18-3/4" BUMPERS, GALVANIZED (38" - 44" BED HEIGHT) | 285895-04G | Х | Х |
| DOCK BUMPER KITS | | | |
| RUBBER BUMPER, 24" (44" - 54" BED HEIGHT) | 283295-02 | Х | Х |
| BUMPER, 1" X 2" X 7" LG. (44"-54" BED HEIGHT) | 283295-03 | Х | Х |
| BUMPER, 2" X 2" X 11" LG. (38" - 44" BED HEIGHT) | 283292-04 | Х | Х |
| RUBBER BUMPER, 2-1/2" X 3" X 18-3/4" LG. | 285472-01 | Х | Х |
| MISCELLANEOUS KITS | PART NO. | GD | PD |
| TRAFFIC CONES | 268893-01 | Х | Х |
| EXTENSION (FOR EXTENSION PLATE) (102" WIDE VEH) | 283134-03 | Х | Х |
| EXTENSION (FOR EXTENSION PLATE) (102" WIDE VEH), GALVANIZED | 283134-03G | Х | Х |
| EXTENSION PLATE HARDWARE KIT (96" WIDE VEH) | 283257-01 | X | Х |
| EXTENSION PLATE HARDWARE KIT (102" WIDE VEH) | 283257-02 | Х | Х |
| ELECTRICAL KITS | | | |
| IN CAB ON-OFF SWITCH | 250477 | Х | Х |
| TUK-A-WAY DUAL CONTROL KIT | 264845 | X | |
| TUK-A-WAY DUAL CONTROL KIT | 264845-02 | | Х |
| 10" EXTENSION TO POWER CABLE | 264849 | X | Х |
| STREET SIDE CONTROL, TUK-A-WAY, GRAVITY DOWN | 280265-01 | X | |
| STREET SIDE CONTROL, TUK-A-WAY, POWER DOWN | 280265-03 | | Х |
| HAND HELD CONTROL ASSEMBLY (3 COND) | 280570-01 | Х | |
| HAND HELD CONTROL ASSEMBLY (4 COND) | 280570-03 | | Х |
| GROUND CABLE, 2 GAUGE X 38' LG. | 269190-01 | Х | Х |
| CIRCUIT BREAKER (150 AMP) | 251576 | Х | Х |
| OVAL, 2 LIGHT MOUNTING FRAME BRACKET | 282372-01 | Х | Х |
| CYCLE COUNTER | 280590-01 | Х | Х |
| TOUCH-UP PAINT KIT | | | |
| TOUCH-UP PAINT (BCG) WITH ALUMINUM PRIMER, SMALL | 908134-01 | Х | Х |
| COLD GALVANIZE SPRAY (GALVANIZED ONLY) | 908000-01 | Х | Х |
| BRIGHT ZINC SPRAY PAINT (GALVANIZED ONLY) | 908100-01 | Х | Х |

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