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Comply with the following WARNINGS while installing Liftgates. See Operation Manual M-00-40 for operating safety requirements.

AWARNING

- 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 M-00-40**.
- Comply with all **WARNING** and instruction decals attached to the Liftgate.
- Keep decals clean and legible. If decals are defaced 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.
- Do not stand under, 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.
- 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 Toggle Switch and the Liftgate will stop.
- A correctly installed Liftgate operates smoothly and reasonably quiet. The only noticeable noise during operation comes from the pump unit while the platform is raised. Listen for scraping, grating and binding noises and correct the problem before continuing to operate Liftgate.
- 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 could be 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.

TRUCK BODY STRENGTH REQUIREMENTS

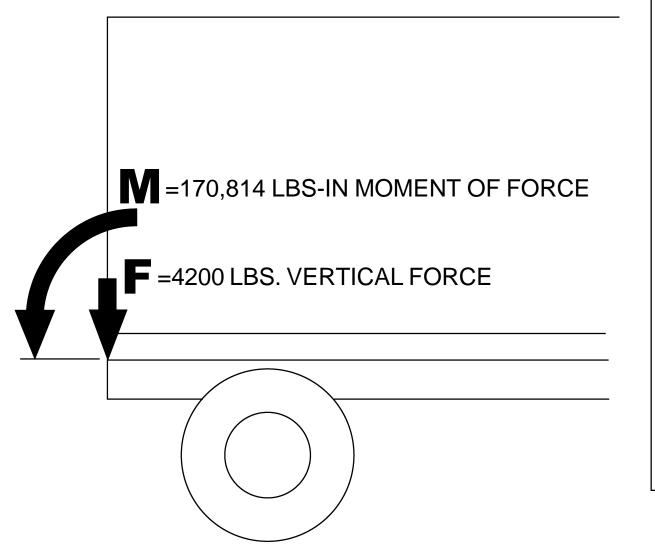
WARNING

Consult truck body manufacturer for truck body strength data. Make sure the forces created by the Liftgate are within the limits prescribed by truck body manufacturer.

NOTE: BODY Maximum and Minimum Operating Bed Height: For Standard Platform and Platform with Aluminum Retention Ramp -Maximum height is 54" (Unloaded). Minimum height is 43" (Loaded).

For Wedge Platform -Maximum height is 54" (Unloaded). Minimum height is 48" (Loaded). Do not install this Liftgate on vehicle bodies equipped with swing open doors.

The MTB 72 Series are body-mounted Liftgates that put force on the back of the truck body as shown in the illustration. For correct installation, truck body must be able to withstand the vertical force and moment of force shown.



PARTS BOX, RECOMMENDED TOOLS & EQUIPMENT

	PARTS BOX COMPONENTS	QTY.	PART NUMBER
1.	HEX HEAD BOLT 1/2" X 1-3/4"	21	901024-2
2.	LOCK NUT	21	901023
3.	MOLDED SWITCH	1	264346
4.	COPPER LUG (#2 GA)	1	226778
5.	FUSED POWER CABLE	1	264422
6.	DECAL & MANUALS KIT (72-25C)	1	280454-01
0.	DECAL & MANUALS KIT (72-30C)		280454-02
	A. INSTALLATION MANUAL	1	M-00-39
	B. OPERATION MANUAL	1	M-00-40
	C. MAINTENANCE MANUAL	1	M-00-41
	D. ADDITIONAL DECALS (SEE DECALS PAGE)	1	
7.	PLASTIC TIE, 7"	4	205780
8.	SELF-TAPPING SCREW 10-24 X 1"	2	900057-5
9.	FRAME CLIP, 1/2" X 1-3/8"	15	050079
10.	LOCK WASHER, 5/16" ID	1	902019-4
11.	NYLON LOCK NUT	1	901001
12.	FLAT WASHER, 5/16" ID	1	902000-7
13.	CAP SCREW, 5/16-18 X 1"	1	900009-2
14.	SPLICE	1	907038
15.	HEAT-SHRINK TUBING 4" LG	1	905286-01

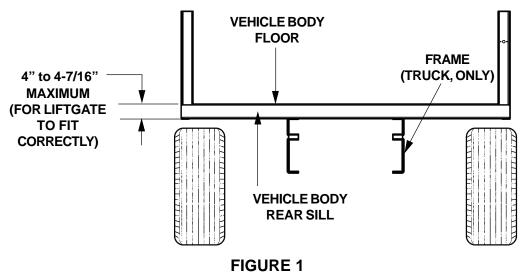
	RECOMMENDED TOOLS & EQUIPMENT				
1.	Forklift, 2500 lbs. capacity				
2.	"C"-clamps, 8" capacity				
3.	Hot Air Gun				
4.	Electric drill motor				
5.	#21, 3/8", ¾" drill bits				
6.	Flat-tip screwdriver, 5/16" wide				
7.	Ratchet handle, socket wrench				
8.	1/2" and 3/4" sockets				
9.	1/2" and 3/4" wrenches, box-end				
10.	Torque Wrench, 150 lbs-ft capacity				
11.	Optional: air powered ratchet, 1/2" impact socket and 3/4" impact socket for faster installation.				

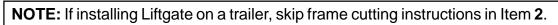
STEP 1, PART A - PREPARE VEHICLE (BOLTING & WELDING METHODS)

CAUTION

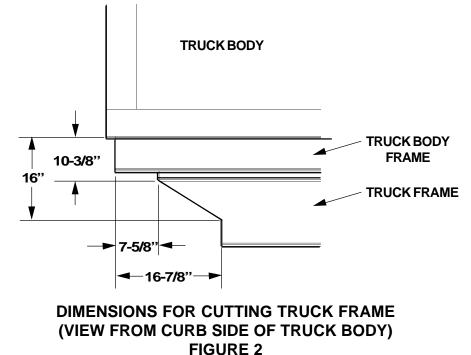
Before installing Liftgate on a truck body, attach truck body to truck frame to prevent body from moving out of position. Use body manufacturer's prescribed method for attaching body to frame.

1. Measure distance from vehicle body floor to bottom of rear sill as shown in FIG. 1. Note minimum and maximum rear sill thickness (FIG. 1) required for Liftgate to fit correctly.



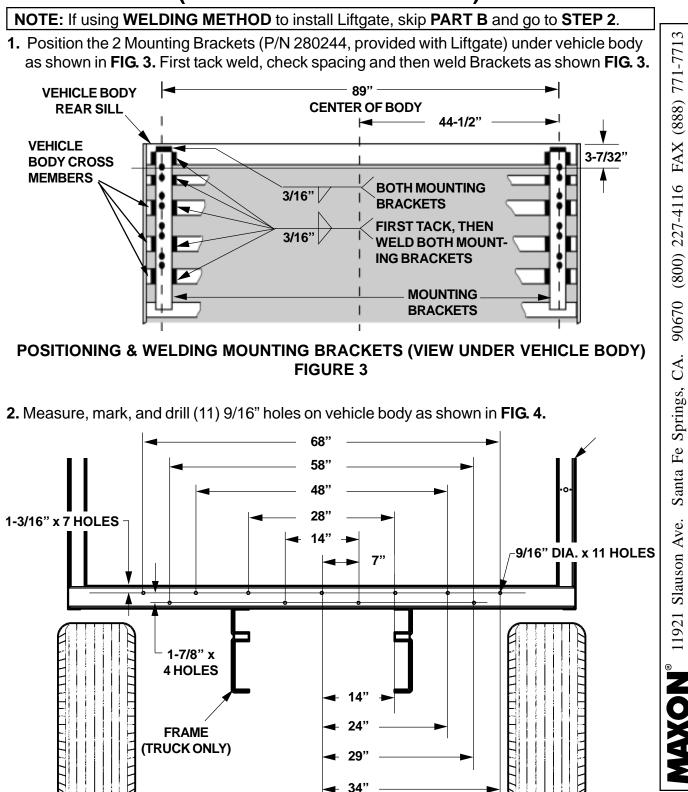


2. Fit Liftgate to a truck body by cutting the truck frame members as shown in FIG. 2.



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STEP 1, PART B - PREPARE VEHICLE (BOLTING METHOD ONLY)



DRILLING BOLT HOLES IN VEHICLE BODY (REAR VIEW OF VEHICLE BODY) FIGURE 4

CENTER OF BODY

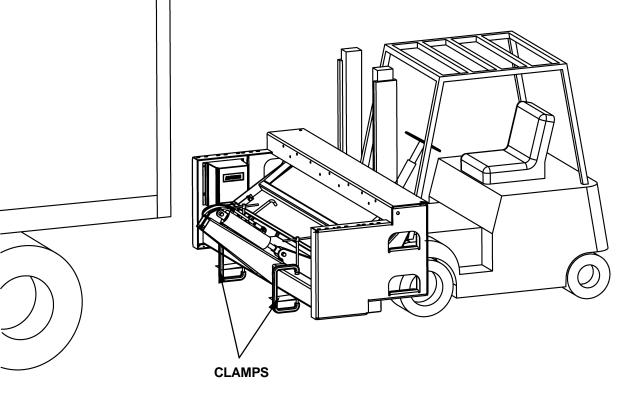
STEP 2 - SECURE LIFTGATE TO FORKLIFT

Secure Liftgate to forklift with "C"-clamps as shown in **FIG. 5**. Use forklift to center the Liftgate in position on the back of the truck body. If necessary, have 1 person operate the forklift and 1 other person check alignment and weld (or bolt) Liftgate to truck body.

WARNING

Keep Liftgate clamped to forklift until Liftgate is welded (or bolted if required) to vehicle body. Liftgate may be damaged and create a hazard for the installer if it falls off the forklift.

NOTE: Rest the Liftgate Extension Plate against the forklift mast.

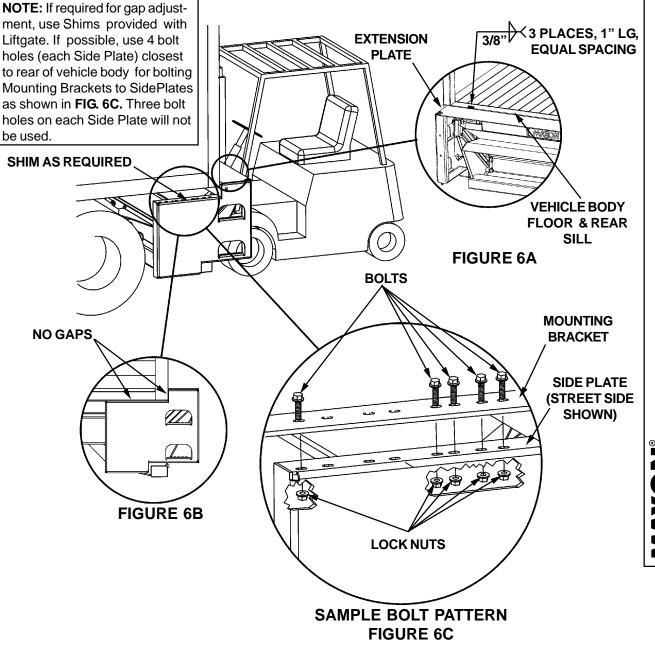




STEP 3, PART A - WELDING METHOD FOR SIDE PLATES

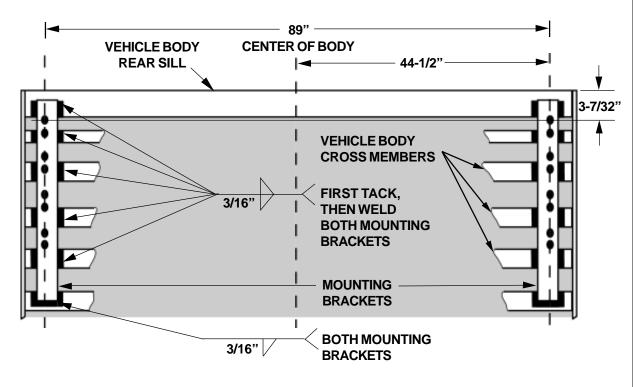
NOTE: If using BOLTING METHOD to install Liftgate, skip PART A and go to PART B.

- Cut shipping ties holding Mounting Bracket and shims to top of each Side Plate. Remove the Mounting Brackets and shims. Make sure Liftgate fits vehicle body as follows: Top of Extension Plate is flush with rear sill and floor of vehicle body (FIG. 6A); no gap between back of Extension Plate and back of vehicle body (FIG. 6B); and no gaps (shim as required) between top edges of each Side Plate and bottom of vehicle body (FIG. 6B). If required, bolt Mounting Bracket and shims from Parts Box to top of each Side Plate (FIG. 6C). Use 5 bolts and 5 locking nuts for each Side Plate. If any of the bolts interfere with vehicle body frame, move bolt to unused hole where bolt will not interfere. Torque the 10 bolts to 105 lbs-ft each.
- 2. Center Liftgate on vehicle body. Tack weld Extension Plate to Rear Sill as shown in FIG. 6A.



STEP 3, PART A - WELDING METHOD FOR SIDE PLATES - Continued

 Tack weld both Mounting Brackets (bolted at top of each Side Plate) to vehicle body as shown in FIG. 7. Check if Liftgate still fits vehicle body correctly (FIG. 6A & 6B). If needed, re-center Liftgate, add shims, or subtract shims to get correct fit. If Liftgate fits correctly, weld both Mounting Brackets (bolted at top of each Side Plate) as shown in FIG. 7.

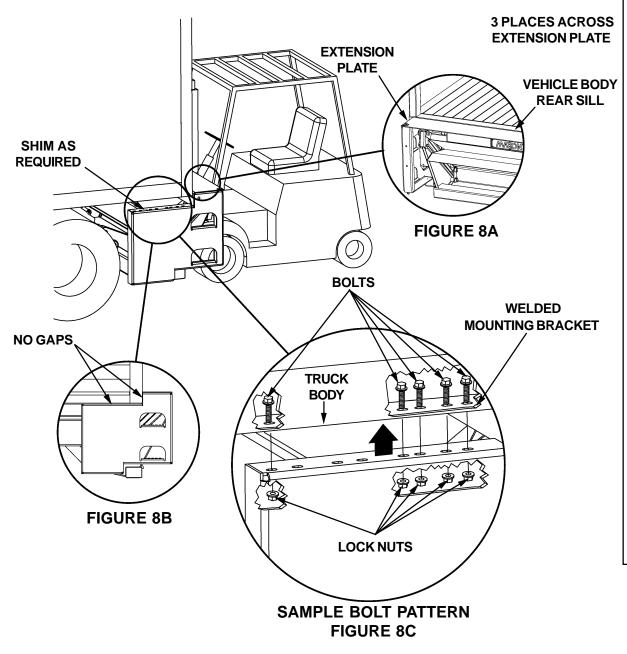


POSITIONING & WELDING LIFTGATE MOUNTING BRACKETS (VIEW UNDER VEHICLE BODY - LIFTGATE NOT SHOWN FOR CLARITY) FIGURE 7

STEP 3, PART B - BOLTING METHOD FOR SIDE PLATES

Make sure Liftgate fits the vehicle body as follows. Top of Extension Plate is flush with rear sill and floor of the vehicle body (**FIG. 8A**); no gap between back of Extension Plate and back of vehicle body (**FIG. 8B**); and no gaps (**shim as required**) between top edges of each Side Plate and bottom of vehicle body (**FIG. 8B**). Get five 1/2" x 1-3/4" frame bolts and lock nuts from Parts Box for each of the two Side Plates (roadside and curbside). Bolt the Liftgate Side Plates to the vehicle body as shown in the illustration (**FIG. 8C**). Torque the 10 bolts to **105 lbs-ft**.

NOTE: If required for gap adjustment, use Shims provided with the Lift Gate. If possible, use 4 bolt holes (each Side Plate) closest to rear of vehicle body for bolting the Liftgate on as shown in **FIG. 8C.** Three bolt holes on each Side Plate will not be used.



STEP 4 - MOVE FORKLIFT

Remove "C"-clamps from Liftgate and back out forklift (FIG. 9).

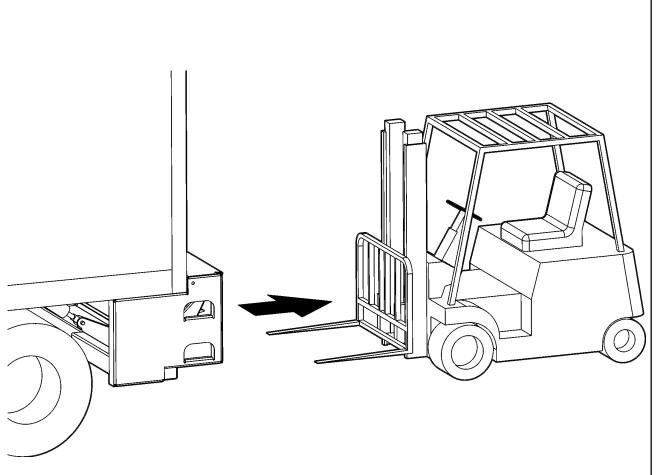


FIGURE 9

STEP 5 - RUN POWER CABLE

Never route an energized wire. Make sure the vehicle battery is disconnected. Always route electrical wires clear of moving parts, brake lines, sharp edges and exhaust systems. Avoid making sharp bends in wiring. Attach securely. If drilling is necessary, first check behind the drilling surface so you do not damage any fuel lines, vent lines, brake lines or wires.

Clip Fused Power Cable to vehicle chassis, with fuse nearest the vehicle battery, as shown in **FIG. 10**. Keep enough cable near the battery to reach the positive terminal without putting tension on cable (after connection).

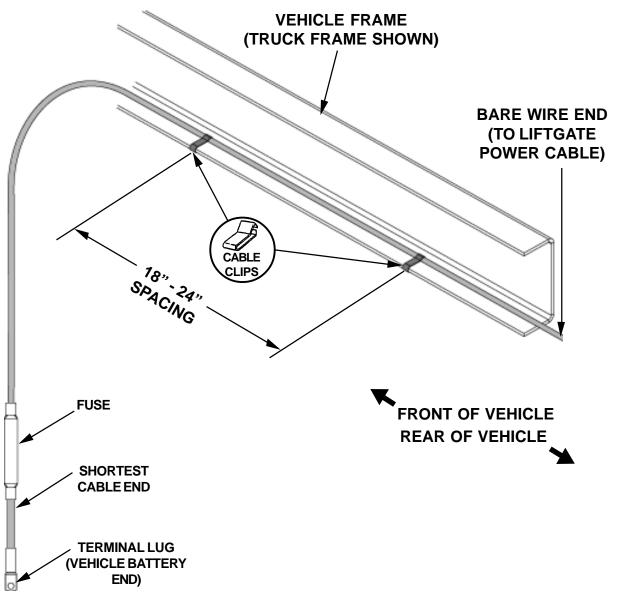
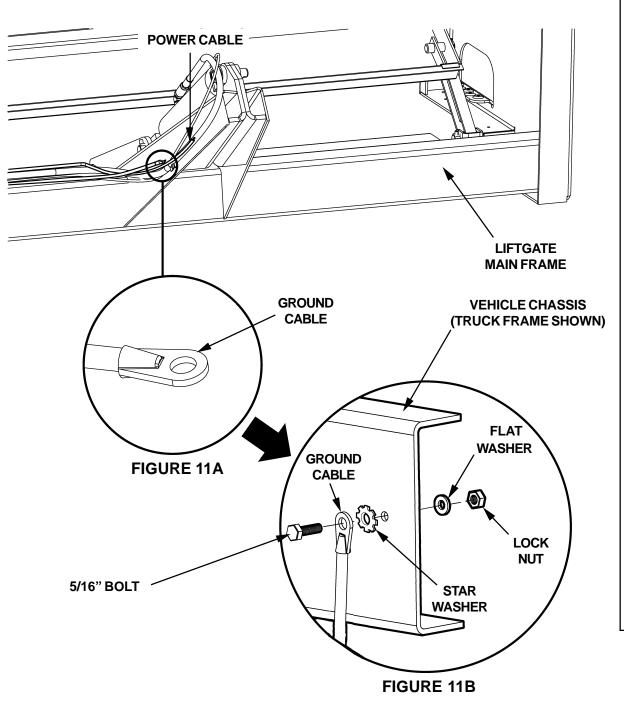


FIGURE 10

STEP 6 - CONNECT GROUND CABLE

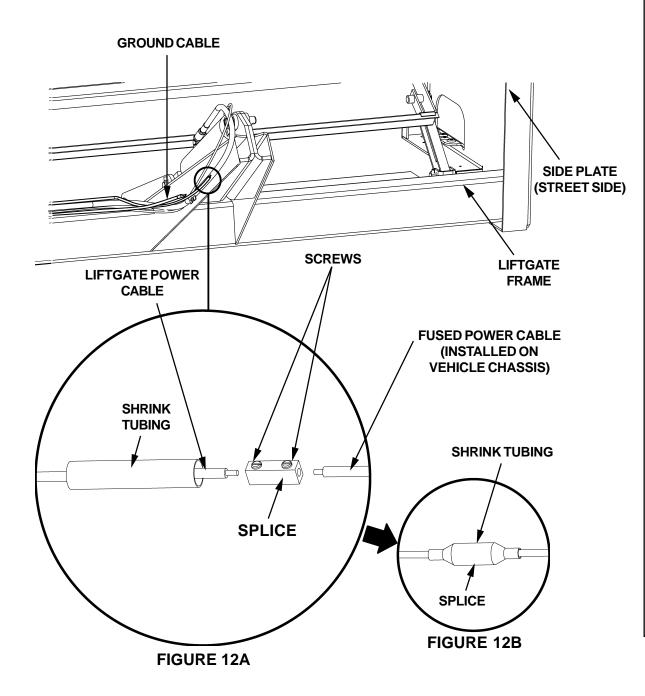
To prevent injury and equipment damage, do not connect Liftgate Power Cable until instructed.

Remove cable tie that bundles Ground Cable and Power Cable to Liftgate Frame for shipping. Extend Ground Cable until terminal lug will reach vehicle chassis without putting tension on cable (after connection). Drill 3/8" hole in vehicle chassis (FIG. 11B) for attaching Ground Cable (FIG. 11A). Bolt Ground Cable terminal lug to the chassis as shown in FIG. 11B.



STEP 7 - CONNECT POWER CABLE

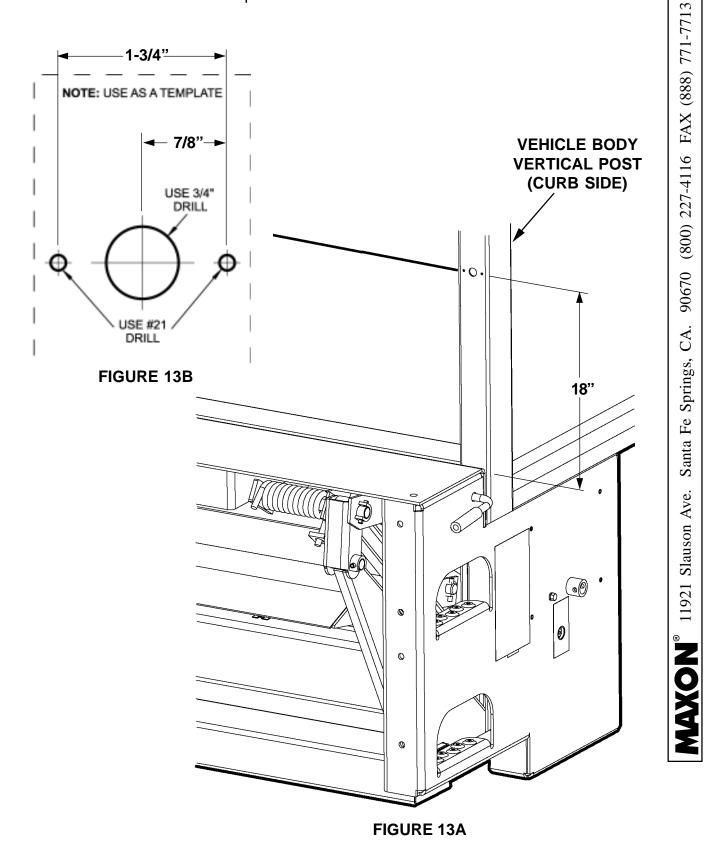
Extend Liftgate Power Cable to reach bare wire end of Fused Power Cable (installed on vehicle chassis in previous step). Make sure there is enough cable to reach the Liftgate Power Cable without putting tension on the cables (after connection). Measure (if needed) then cut excess cable from end of Fused Power Cable closest to Liftgate. Slide shrink tubing (FIG. 12A) over Power Cable. Splice the Fused Power Cable and Liftgate Power cable to-gether as shown in FIG. 12A. Slide shrink tubing over splice and shrink in place with heatgun (FIG. 12B).



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STEP 8 - INSTALL SWITCH CONTROL

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. 13A**. Use template shown in **FIG. 13B**.



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STEP 8 - INSTALL SWITCH CONTROL - Continued

Route Switch Control wiring harness up through the inside of vertical post (FIG. 14A) and out the 3/4" hole from the previous step. Connect Switch Control wiring to the wiring harness as shown in (FIG. 14B). Push extended wiring back into the ³/₄" hole in the vertical post until Switch Control touches the post. Attach Switch Control to vertical post with 2 self-tapping screws.

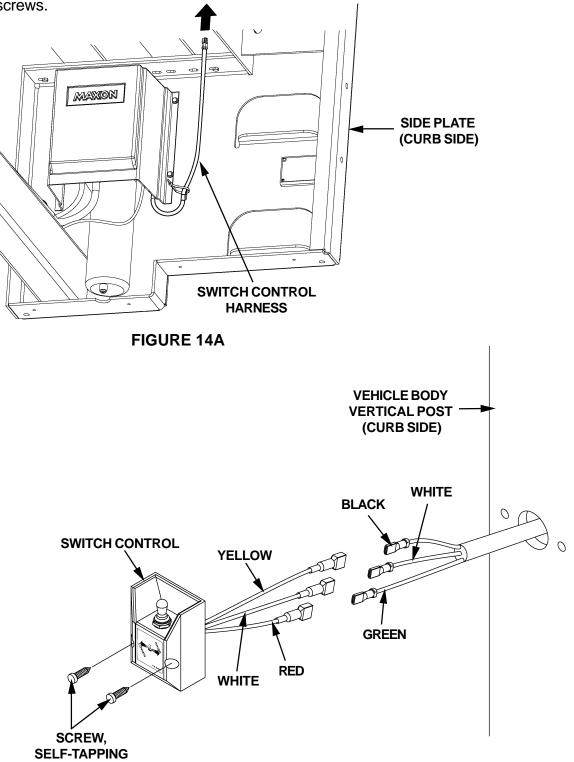
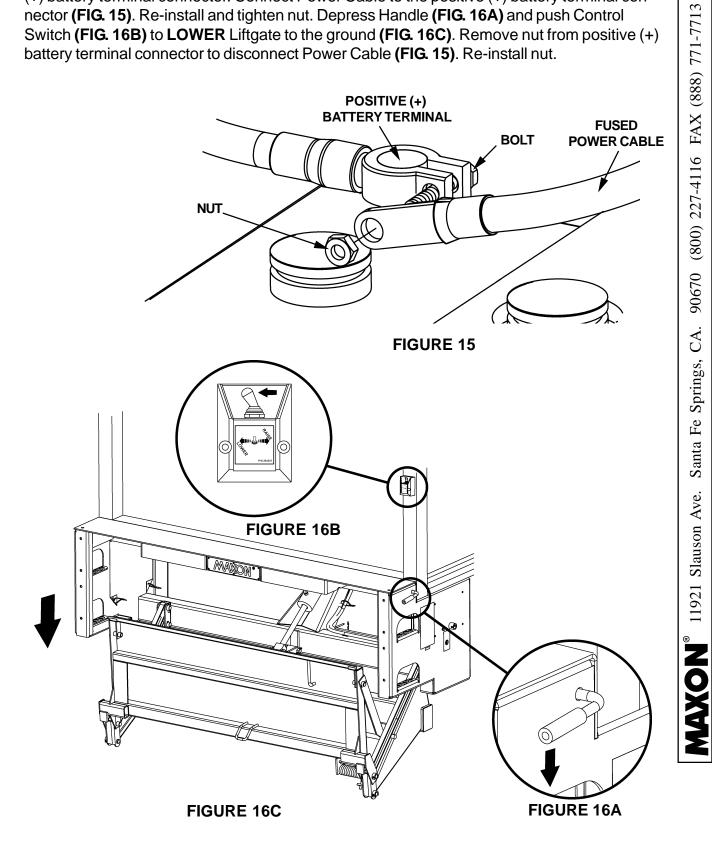


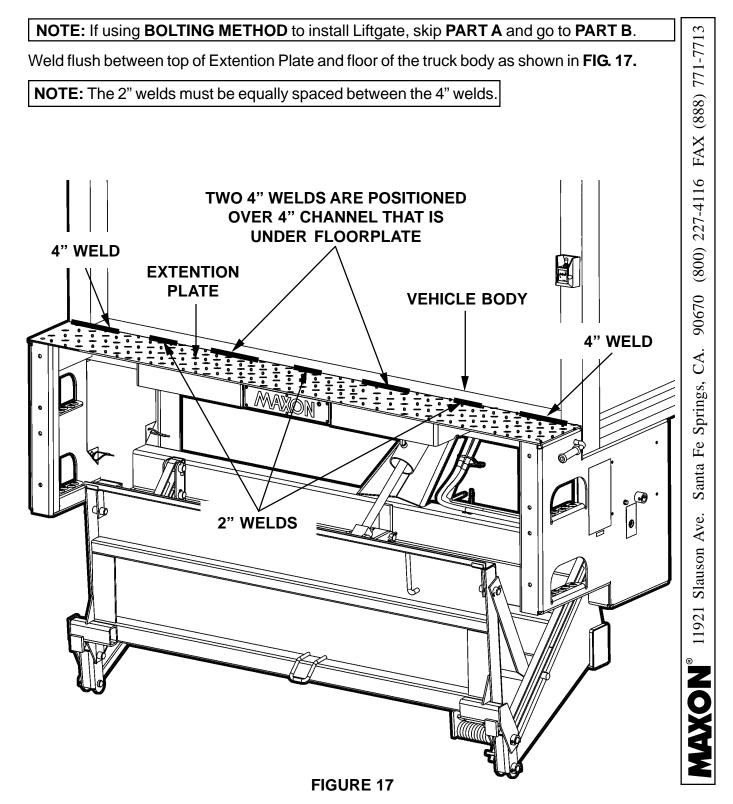
FIGURE 14B

STEP 9 - LOWER THE PLATFORM FOR ACCESS

Connect Power Cable to battery for power to LOWER the Liftgate: Remove nut from positive (+) battery terminal connector. Connect Power Cable to the positive (+) battery terminal connector (FIG. 15). Re-install and tighten nut. Depress Handle (FIG. 16A) and push Control Switch (FIG. 16B) to LOWER Liftgate to the ground (FIG. 16C). Remove nut from positive (+) battery terminal connector to disconnect Power Cable (FIG. 15). Re-install nut.

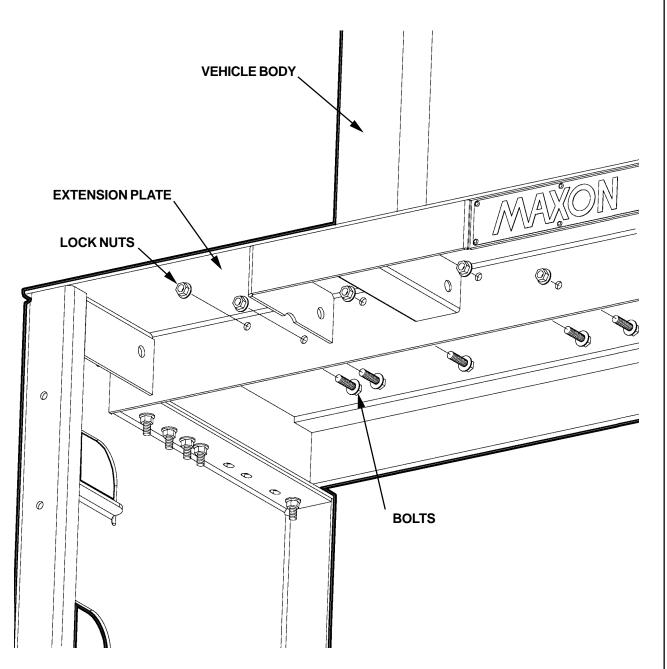


STEP 10, PART A - WELDING METHOD FOR EXTENSION PLATE



STEP 10, PART B - BOLTING METHOD FOR EXTENSION PLATE

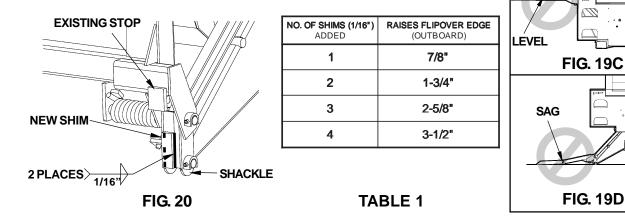
Unfold Platform to gain access to bottom side of Extension Plate. Bolt the Liftgate Extension Plate to vehicle body with the remaining eleven 1/2" x 1-3/4" frame bolts and lock nuts from the Parts Box as shown in **FIG. 18**. Torque the 11 bolts to **105 lbs-ft each**. Reconnect Power Cable to battery (**FIG. 15**).



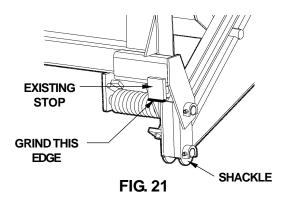
EXTENSION PLATE BOLT PATTERN (VIEW FROM UNDER EXTENSION PLATE) FIGURE 18

PLATFORM ADJUSTMENT

- 1. Open and **RAISE** Platform to bed level as shown in **Operation Manual M-00-40**. Platform should be angled upward at bed level (FIG. 19A) and angled downward at ground level (FIG. 19B).
- If the platform is level at bed height (FIG.19C) and sags at ground level (FIG.19D), weld 1-1/2" x 3-1/2" shims in 1/16" increments to each lift arm Shackle (roadside and curbside) as shown in FIG. 20. Make sure bottom edge of shim is flush with bottom edge of shackle. Each shim raises up the outboard edge of the flipover as shown in TABLE 1.



 If the outboard edge of the flipover will not reach level ground, grind off metal in 1/16" increments from the existing stop on the Platform (roadside and curbside) as shown in FIG. 21. Each 1/16" ground off the existing shims lowers the outboard edge of the flipover as shown in TABLE 2.



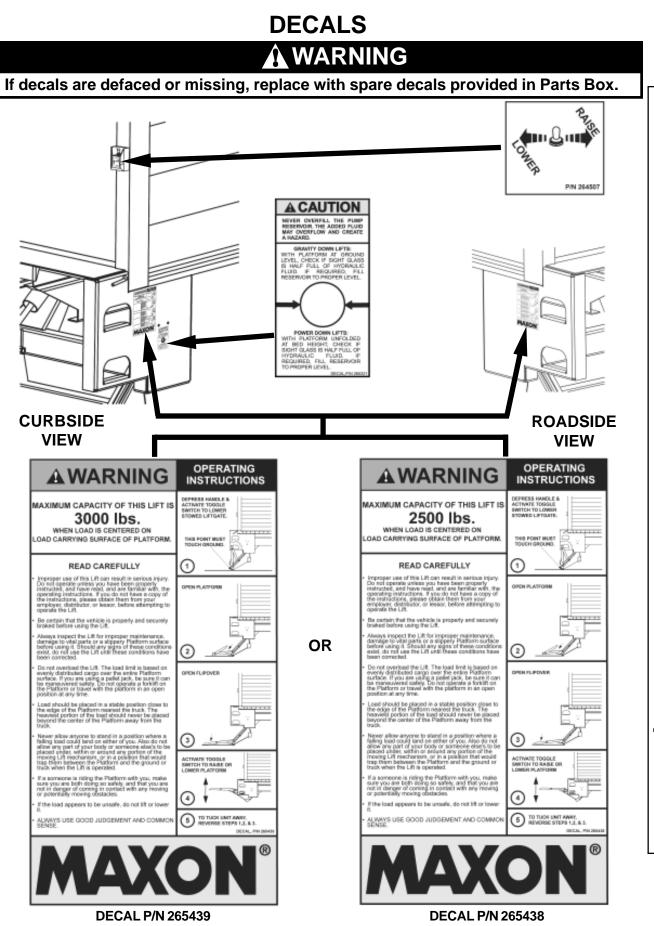
GRIND OFF EXISTING SHIM	LOWERS FLIPOVER EDGE (OUTBOARD)			
1/16"	7/8"			
1/8"	1-3/4"			
3/16"	2-5/8"			
1/4"	3-1/2"			
TABLE 2				



FIG. 19A

FIG. 19B

NO SAG



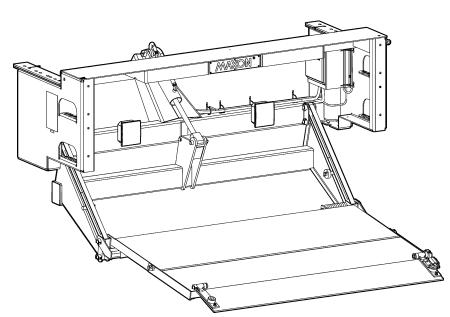
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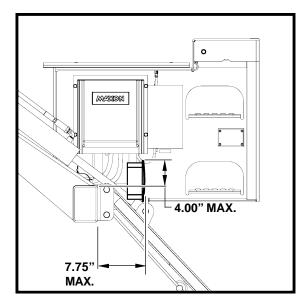
VEHICLE TAILLIGHT POSITIONING

NOTE: Taillights and attaching hardware are not provided with the Liftgate.

Install vehicle taillights as shown in FIG. 22A, FIG. 22B, and FIG. 22C.



VEHICLE TAILLIGHTS INSTALLED ON LIFTGATE FIG. 22A



TAILLIGHT POSITIONS, SIDE VIEW



