

MAXON[®]

MIGHTY  **MAX**
CONVENTIONAL LIFT MM-1300

INSTALLATION MANUAL

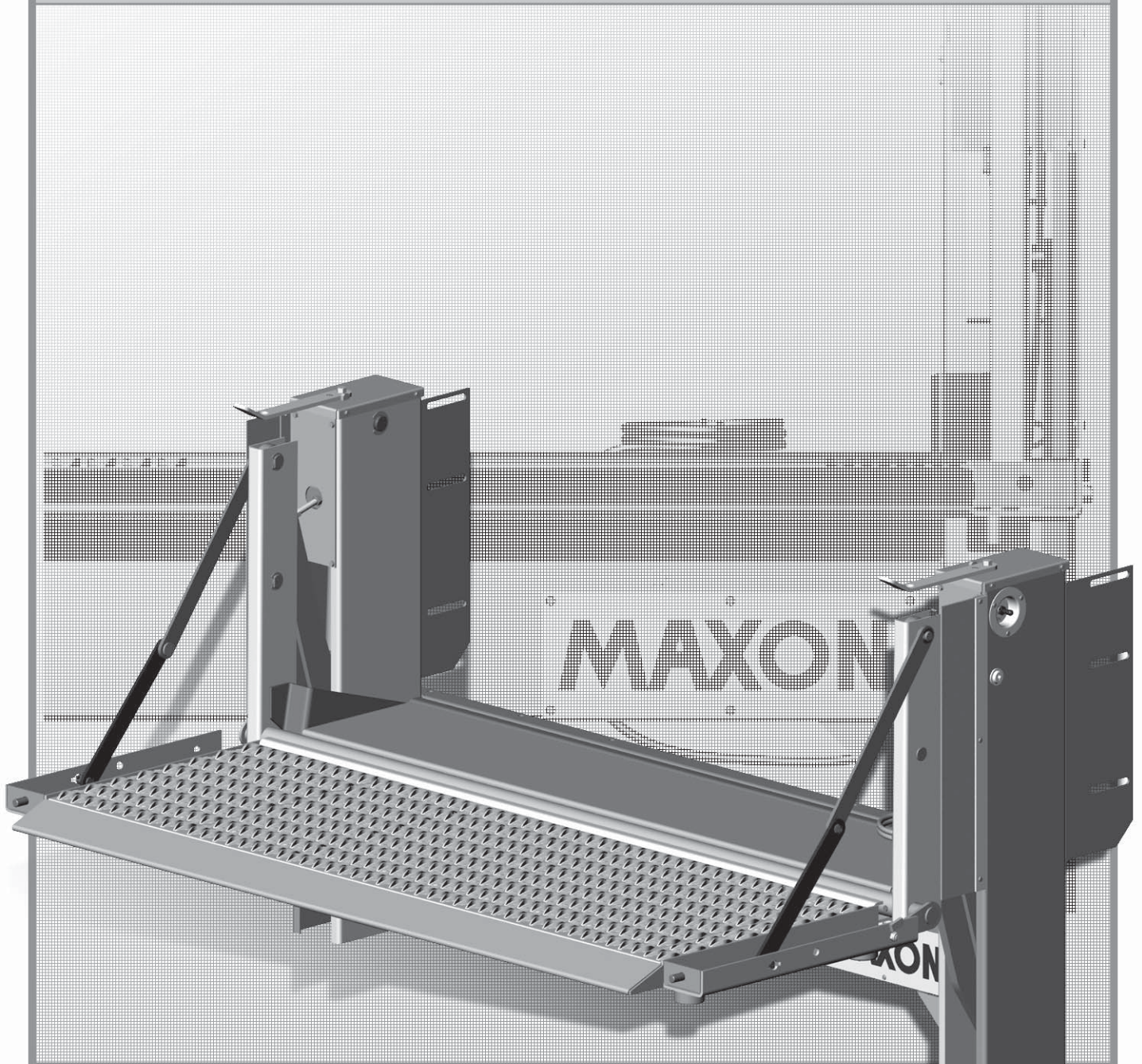


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SUMMARY OF CHANGES: M-06-02, REVISION F

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PAGE	DESCRIPTION OF CHANGE
COVER	Updated REV, date of release, and cover images.
4	Added SUMMARY OF CHANGES page.
7	Updated MM-1300 INSTALLATION PARTS BOX list.
8-9	Updated MM-1300 LIFTGATE INSTALLATION KITS parts list.
12	Added new Sheet and updated steps to 2012 CHEVY SILVERADO PICKUP taillight removal and reinstallation instructions.
14	Updated Liftgate illustration and part descriptions.
15	Updated mounting bracket illustration.
16	Revised illustration to BOLTING RH SUPPORT PLATE TO TRUCK BED.
17-19	Added new Sheets and updated instructions to 2012 CHEVY SILVERADO PICKUP TRUCK BODY installation kits.
20-22	Updated illustrations and part descriptions to SUPER DUTY PICKUP TRUCK BODY installation kits.
23	Updated illustration and part descriptions to INSTALL ON SERVICE TRUCK BODY installation kits.
37	Updated Shell's psrt numbers for hydraulic oil to Tellus S2 V32 and S2 V15.
43	Added Family Owned decal P/N 283445-01, MAXPRO decal P/N 267338-01, and STOW WARNING decal P/N 282847-03.

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.

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.

MM-1300 LIFTGATE COMPONENTS

CAUTION

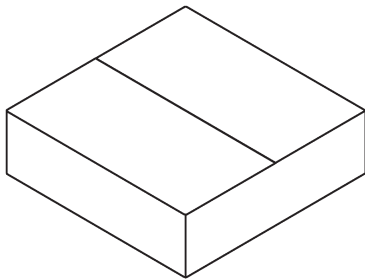
Prevent injuries and equipment damage. Before cutting the shipping straps from the Liftgate, put Liftgate on level ground that will support at least 1500 pounds. Be careful lifting and moving components after shipping straps are removed.

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:

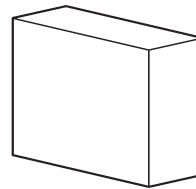
Maxon Customer Service

Call (800) 227-4116 or

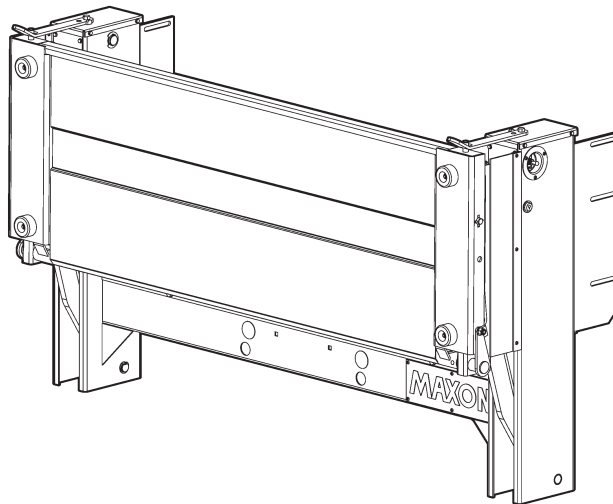
Send e-mail to customersupport@maxonlift.com



INSTALLATION KIT



PARTS BOX



**LIFTGATE WITH STEEL PLATFORM
(ALSO AVAILABLE WITH ALUMINUM PLATFORM OR
GRIP STRUT PLATFORM)**

MM-1300 COMPONENTS

FIG. 6-1

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MM-1300 LIFTGATE INSTALLATION PARTS BOX

ITEM	DESCRIPTION	QTY.	PART NO.
1.	TAPPING SCREW, #10 X 1/2" LG	4	030458
2.	SCREW, 1/4" X 3/4" LG	2	030460
3.	SPLIT LOOM, 1/2" X 300" LG	1	040103-300
4.	COPPER LUG, #4 GA, 5/16" STUD	1	055007
5.	PVC PIPE, 1" I.D. X 9-1/2" LG (SCHED-40)	1	093053-10
6.	PLASTIC TIE, 7" LG	8	205780
7.	CLAMP, #8 RUBBER LOOM	4	214663
8.	HEATSHRINK TUBING, 3/4" X 2" LG	1	253316-01
9.	KEY (FOR LOCKING POWER SWITCH)	2	263089
10.	INSTALLATION MANUAL	1	M-06-02
11.	MAINTENANCE & OPERATION MANUAL	1	M-06-03
12.	DECALS	REF	REFER TO DECAL PAGES IN THIS MANUAL.
13.	LICENSE PLATE LIGHTS HARNESS	1	267386-01
14.	LICENSE PLATE LIGHT ASSY	2	267387-01
15.	CAP SCREW, 3/8"-16 X 1-1/4" LG, GRADE 8	12	900014-5
16.	CAP SCREW 3/8"-16 X 1-1/2" LG, GRADE 8	12	900014-6
17.	CAP SCREW, 1/2-20 X 1" LG, GRADE 8	2	900033-1
18.	BUTTON SCREW, 3/8"-16 X 1-1/4" LG.	6	900064-06
19.	HEX NUT, 1/2"-20	2	901011-10
20.	HEX NUT, 3/8"-16	26	901011-5
21.	NUT, NYLON, SQ. HD. GROMMET (FOR 1/4" SCREW)	2	901015-03
22.	FLAT WASHER #10, 1/16" THK	2	902000-6
23.	FLAT WASHER 3/8" X 1/16" THK	26	902001-2
24.	LOCK WASHER 3/8" X 3/32" THK	14	902011-4
25.	LOCK WASHER 9/16", 9/64" THK	2	902011-7
26.	WASHER, EXTERNAL TOOTH, 3/8"	4	903400-02
27.	POP RIVET, STAINLESS STL, 3/16" X 7/16" LG	2	904005-1
28.	TAPE, ABRASIVE ANTISLIP 6" X 24" BK (APPLY TO STEEL PLATFORM ONLY AS INSTALLER PREFERENCES.)	5	905194
29.	BUSHING, NYLON (FOR 1-1/2" DIA. HOLE)	1	908082-08
30.	LANYARD, NYLON-COATED, 6" LG	1	908083-01
31.	FUSE KIT, 150 AMP	1	268383-01
	A. MEGA FUSE (150 AMP) & HOLDER	1	906510-01
	B. COPPER LUG, #2 GA, 5/16" STUD	2	906497-02
	C. SELF-TAPPING SCREW, HEX HD, #14 X 5/8" LG	2	900067-02
	D. HEATSHRINK TUBING, 3/4" X 1-1/2" LG	2	253316-04
32.	CAP SCREW, 3/8"-16 X 2" LG, GR8	6	900014-8

TABLE 7-1

MM-1300 LIFTGATE INSTALLATION KITS**KIT P/N 267611-01****GM & FORD PICKUP INSTALLATION KIT**

ITEM	DESCRIPTION	QTY.	PART NO.
1.	PARTS BOX MM-1300, STEEL PLATFORM	1	267612-01
2.	UNDERBODY BOLTING STRAP	2	266274-01
3.	UPPER MOUNT BRACKET (LH)	1	266279-01
4.	UPPER MOUNT BRACKET (RH)	1	266279-02
5.	SPACER	6	267613-01

TABLE 8-1**KIT P/N 267611-02****FORD PICKUP INSTALLATION KIT**

ITEM	DESCRIPTION	QTY.	PART NO.
1.	PARTS BOX MM-1300, STEEL PLATFORM	1	267612-01
2.	UPPER MOUNT BRACKET (LH) SUPER DUTY	1	264952-01
3.	UPPER MOUNT BRACKET (RH) SUPER DUTY	1	264952-02
4.	SPACER	6	267613-01
5.	UPPER MOUNT BRACKET (LH)	1	266279-01
6.	UPPER MOUNT BRACKET (RH)	1	266279-02
7.	CHANNEL	2	289341-01

TABLE 8-2**KIT P/N 267611-03****SERVICE BODIES INSTALLATION KIT**

ITEM	DESCRIPTION	QTY.	PART NO.
1.	PARTS BOX MM-1300, STEEL PLATFORM	1	267612-01
2.	VEHICLE CONNECT PLATE (LH)	1	263073-01
3.	VEHICLE CONNECT PLATE (RH)	1	263073-02

TABLE 8-3**KIT P/N 267611-21****CHEVY & GM PICKUP INSTALLATION KIT**

ITEM	DESCRIPTION	QTY.	PART NO.
1.	PARTS BOX MM-1300, ALUM & GRIP STRUT PLATFORMS	1	267612-02
2.	UPPER MOUNT BRACKET (LH)	1	285904-01
3.	UPPER MOUNT BRACKET (RH)	1	285904-02
4.	MOUNTING BRACKET BOLT STRAP	2	285906-01
5.	TAILLIGHT BRACKET	2	285905-01
6.	TAPE, ABRASIVE ANTISLIP 6" X 24" BK	2	905194
7.	SPACER	6	267613-01

TABLE 8-4

**KIT P/N 267611-41
GM PICKUP INSTALLATION KIT**

ITEM	DESCRIPTION	QTY.	PART NO.
1.	PARTS BOX MM-1300, STEEL PLATFORM	1	267612-01
2.	UPPER MOUNT BRACKET (LH)	1	285904-01
3.	UPPER MOUNT BRACKET (RH)	1	285904-02
4.	MOUNTING BRACKET BOLT STRAP	2	285906-01
5.	TAILLIGHT BRACKET	2	285905-01
6.	TAPE, ABRASIVE ANTISLIP 6" X 24" BK	2	905194
7.	SPACER	6	267613-01

TABLE 9-1

**KIT P/N 267611-51
GM & FORD PICKUP INSTALLATION KIT**

ITEM	DESCRIPTION	QTY.	PART NO.
1.	PARTS BOX MM-1300, ALUM & GRIP STRUT PLATFORMS	1	267612-02
2.	UNDERBODY BOLTING STRAP	2	266274-01
3.	UPPER MOUNT BRACKET (LH)	1	266279-01
4.	UPPER MOUNT BRACKET (RH)	1	266279-02
5.	SPACER	6	267613-01

TABLE 9-2

**KIT P/N 267611-52
FORD PICKUP INSTALLATION KIT**

ITEM	DESCRIPTION	QTY.	PART NO.
1.	PARTS BOX MM-1300, ALUM & GRIP STRUT PLATFORMS	1	267612-02
2.	UPPER MOUNT BRACKET (LH) SUPER DUTY	1	264952-01
3.	UPPER MOUNT BRACKET (RH) SUPER DUTY	1	264952-02
4.	SPACER	6	267613-01
5.	UPPER MOUNT BRACKET (LH)	1	266279-01
6.	UPPER MOUNT BRACKET (RH)	1	266279-02
7.	CHANNEL	2	289341-01

TABLE 9-3

**KIT P/N 267611-53
SERVICE BODIES INSTALLATION KIT**

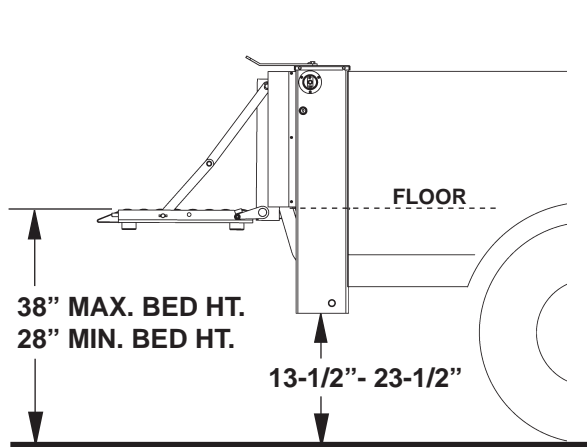
ITEM	DESCRIPTION	QTY.	PART NO.
1.	PARTS BOX MM-1300, ALUM & GRIP STRUT PLATFORMS	1	267612-02
2.	VEHICLE CONNECT PLATE (LH)	1	263073-02
3.	VEHICLE CONNECT PLATE (RH)	6	267613-01

TABLE 9-4

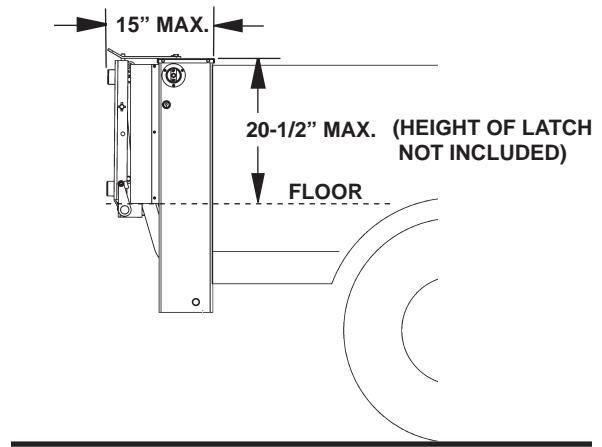
TRUCK REQUIREMENTS

NOTE: The maximum bed height for the MM 1300 Series Liftgates is 38" (unloaded). The minimum height is 28" (loaded).

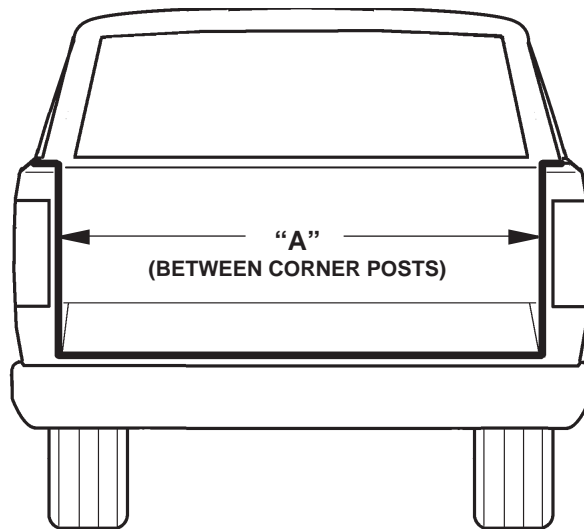
NOTE: Measure the width of the Liftgate and the width of the truck body before you start doing this procedure. Ensure the Liftgate is the correct width for body.



**MM-1300 CLEARANCE DIMENSIONS
(FOR REFERENCE)
FIG. 10-1**



**MM-1300 CLEARANCE DIMENSIONS
(FOR REFERENCE)
FIG. 10-2**



**TRUCK BODY REAR OPENING WIDTH
FIG. 10-3**

MODEL	DIMENSION "A"
FULL-SIZE PICKUP	59" - 60-1/4"
WIDE SERVICE BODY	55" - 59"
CLASSIC SERVICE BODY	48" - 54"

TABLE 10-1

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STEP 1 - PREPARE TRUCK BODY

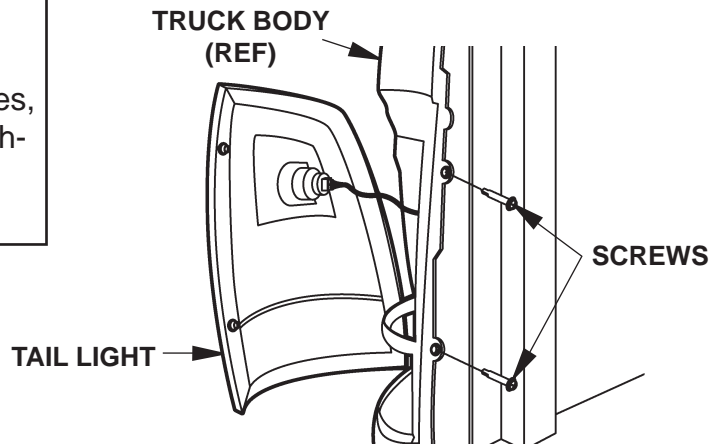
LIGHT DUTY & SUPER DUTY PICKUPS

NOTE: Before installing Liftgate, make sure there is room to run Liftgate power cable between Liftgate and truck body. If required, cut or drill truck body to make room for power cable.

1. Check if any parts of the body and frame extend beyond the back of the truck body.
2. To prevent interference and correctly fit Liftgate to truck body, remove parts such as tail gate lights, bumpers, and brackets that extend beyond the back of the truck. Also, remove portions of truck frame that extend beyond the back of the truck.

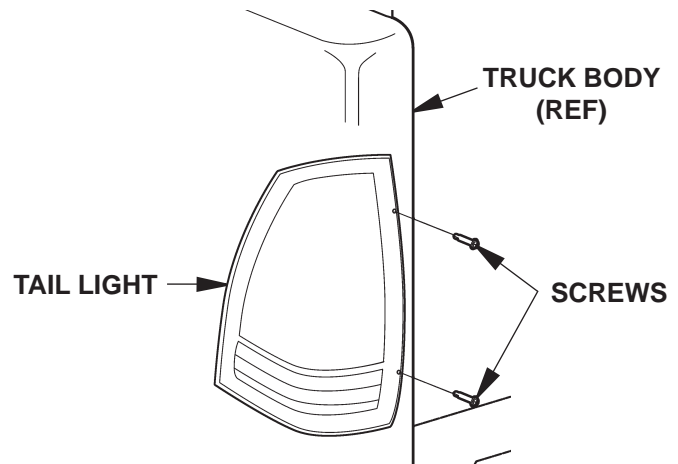
NOTE: To ensure access to taillight bulbs after Liftgate is installed on pickup truck bodies, change the location of attaching screws as shown in the following instructions.

3. Remove attaching screws from LH taillight (**FIG. 11-1**).



REMOVING LH TAILLIGHT
FIG. 11-1

4. Mark and drill new holes in the LH taillight and truck body for each attaching screw (**FIG. 11-2**).



REINSTALLING LH TAILLIGHT
FIG. 11-2

6. Repeat instructions 3 through 5 for the RH taillight.

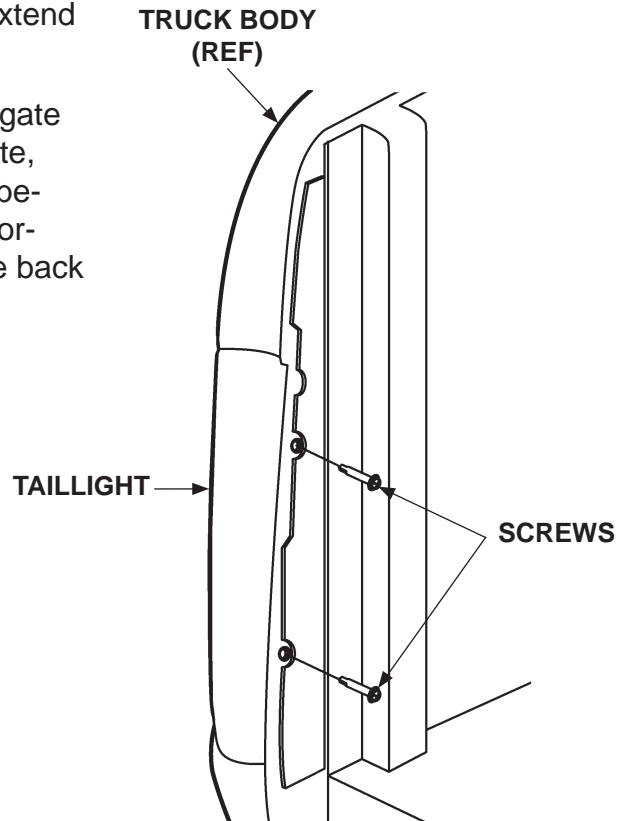
2012 CHEVY SILVERADO PICKUP

NOTE: Before installing Liftgate, make sure there is room to run Liftgate power cable between Liftgate and truck body. If required, cut or drill truck body to make room for power cable.

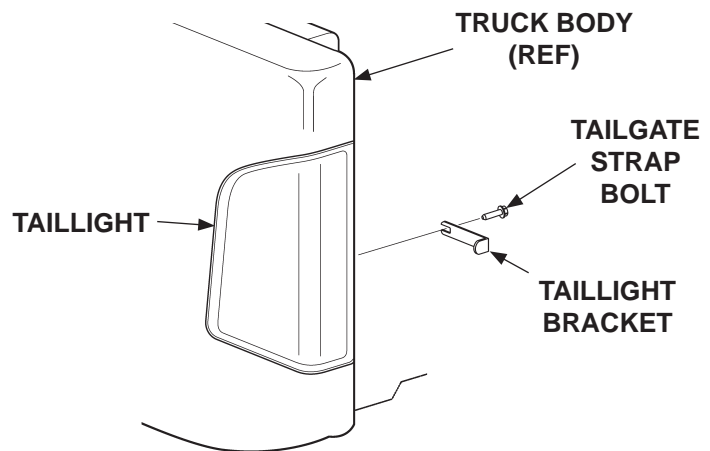
1. Check if any parts of the body and frame extend beyond the back of the truck body.
2. To prevent interference and correctly fit Liftgate to truck body, remove parts such as tail gate, lights, bumpers, and brackets that extend beyond the back of the truck. Also, remove portions of truck frame that extend beyond the back of the truck.

NOTE: To ensure access to taillight bulbs after Liftgate is installed on pickup truck bodies, replace original attaching screws with taillight bracket as shown in the following instructions.

3. Remove attaching screws from LH tail light (**FIG. 12-1**).
4. Position the slot on taillight bracket over the threaded hole from the tailgate strap (**FIG. 12-2**).
5. Bolt the taillight bracket in the threaded hole used for tail gate strap (**FIG. 12-2**).
6. Repeat instructions 3 through 5 for the RH tail light.



**REMOVING LH TAILLIGHT
FIG. 12-1**



**REINSTALLING LH TAILLIGHT
FIG. 12-2**

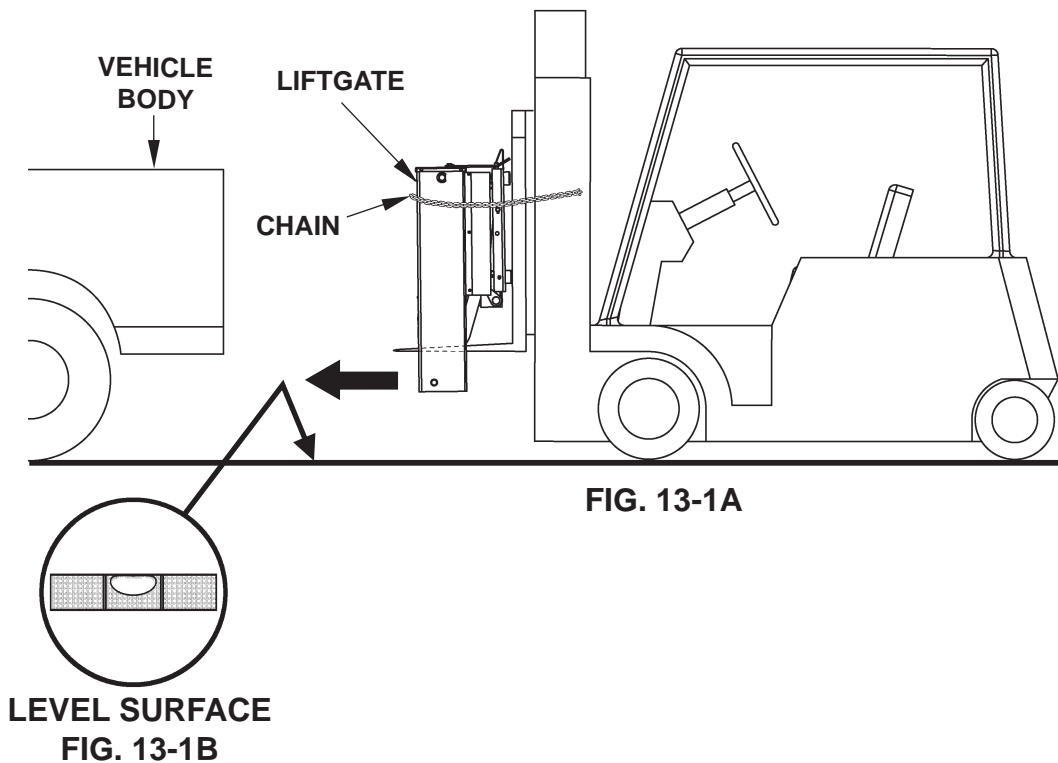
STEP 2 - BOLT LIFTGATE TO VEHICLE

WARNING

Keep Liftgate chained to forklift until Liftgate is bolted to truck body. Liftgate may be damaged and create a hazard for the installer if it falls off the forklift.

NOTE: To install Liftgate correctly, you must park the truck on level ground and follow the instructions in this manual.

1. Secure the Liftgate to forklift with a chain as shown in **FIG. 13-1A**.



2. Use the forklift to center Liftgate in position on the back of the truck body (**FIG. 13-1A**). If necessary, have 1 person operate the forklift and 1 other person check alignment of Liftgate and truck body.

INSTALL ON LIGHT DUTY PICKUP TRUCK BODY

NOTE: The following table lists the Liftgate Installation Kits available for Light Duty Pickup Truck Bodies.

INSTALLATION KITS FOR LIGHT DUTY PICKUP TRUCK BODIES	
PART NO.	APPLICATION
267611-01	LIFTGATE WITH STEEL PLATFORM
267611-51	LIFTGATE WITH ALUMINUM PLATFORM OR GRIP STRUT PLATFORM

TABLE 14-1

- Center the Liftgate on the truck body. Use the angle plate on Liftgate as a template to mark (6) holes and use 13/32" drill bit to drill (6) holes through truck body (**FIGS. 14-1A and 14-1B**). Bolt the angle plate to truck body (**FIG. 14-1B**).

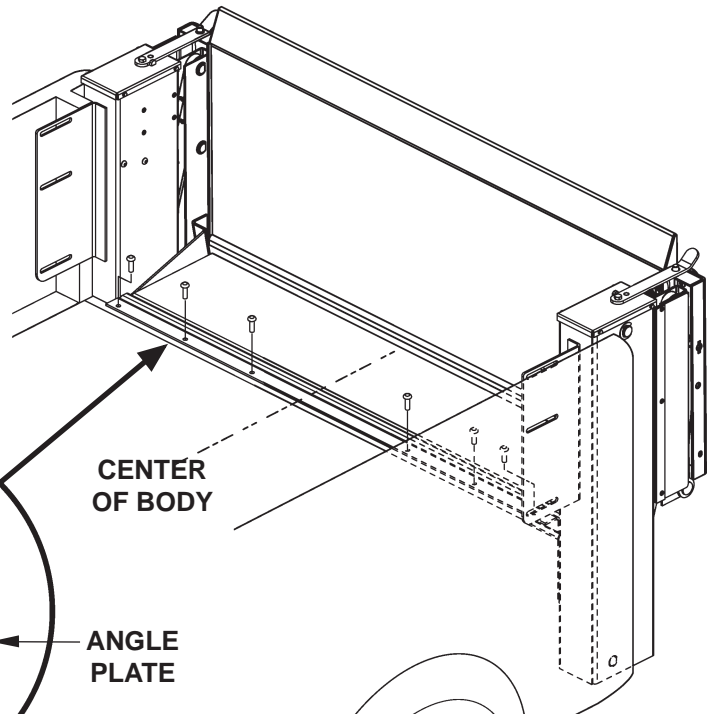
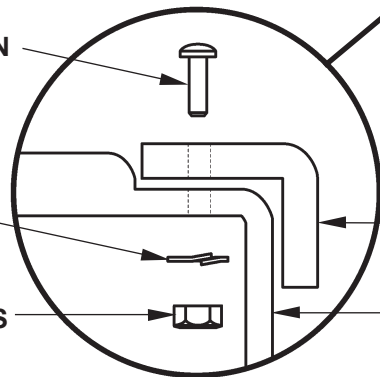


FIG. 14-1A

3/8"-16 BUTTON
HD SCREWS
(6 PLACES)

3/8" LOCK
WASHERS
(6 PLACES)

3/8" HEX NUTS
(6 PLACES)



ANGLE
PLATE

TRUCK
BODY

**BOLTING ON ANGLE PLATE
FIG. 14-1B**

CAUTION

Prevent damage to truck bed and Liftgate. Ensure both mounting brackets, bolted to Liftgate, are supported by both rear corner posts of the truck bed. If necessary, add structural supports between brackets and rear corner posts.

NOTE: Use longer bolts from Parts Box if shims are used between the mounting brackets and support plates. If shims are not used, use the shorter bolts.

- Butt RH mounting bracket against RH support plate on Liftgate and RH rear corner post of truck bed (FIGS. 15-1A, 15-1B, and 15-1C). If mounting bracket is positioned over a valley in the floor of truck bed, bolt shims between bracket and support plate to reposition the mounting bracket off the valley (FIG. 15-1C). If necessary, attach structural support (not supplied by MAXON) to fill gap between bracket and rear corner post (FIG. 15-1D). Then, bolt mounting bracket to support plate (FIGS. 15-1B and 15-1C).

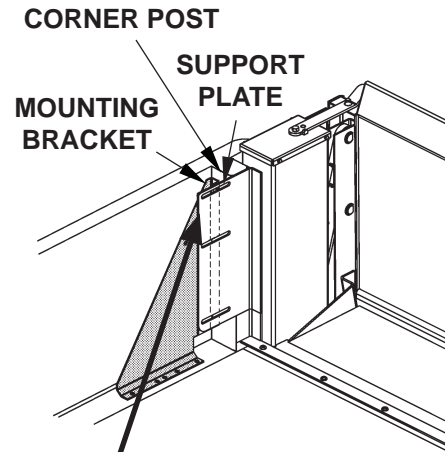
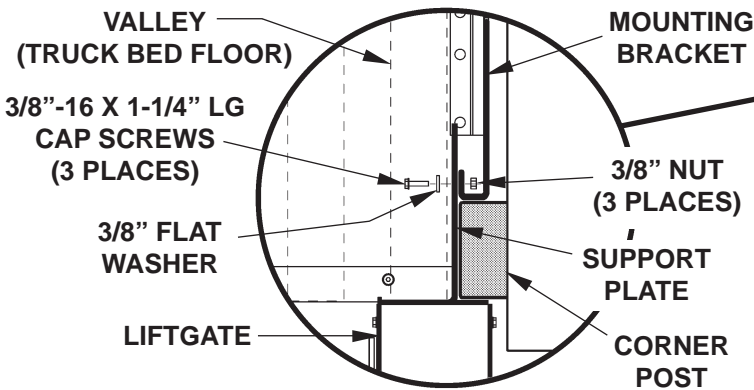
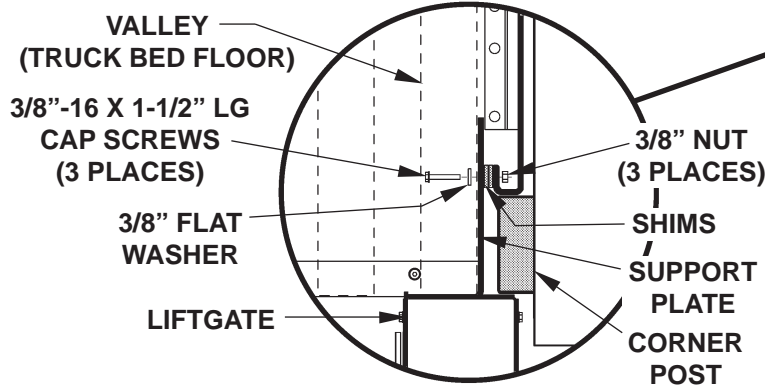


FIG. 15-1A



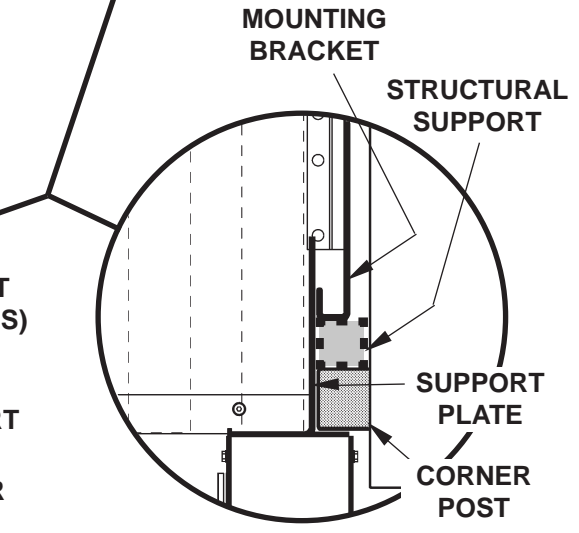
BOLTING WITHOUT SHIM
(TOP VIEW-RH SIDE)

FIG. 15-1B



BOLTING WITH SHIM
(TOP VIEW-RH SIDE)

FIG. 15-1C

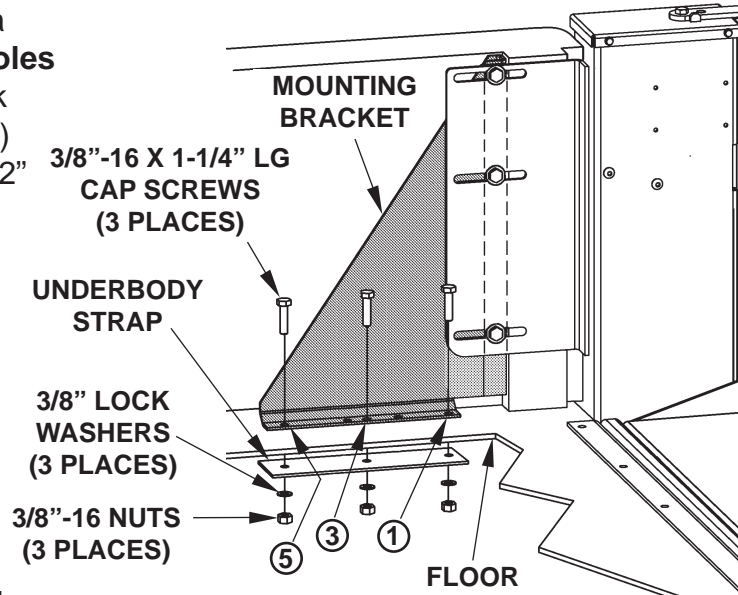


EXAMPLE STRUCTURAL SUPPORT,
AS REQUIRED (TOP VIEW-RH SIDE)

FIG. 15-1D

INSTALL ON LIGHT DUTY PICKUP TRUCK BODY - Continued

- Use the RH mounting bracket as a template to mark the position of **holes 1, 3, and 5** on the floor of the truck body (**FIG. 16-1**). Then, drill the (3) holes through the floor with a 13/32" drill bit.

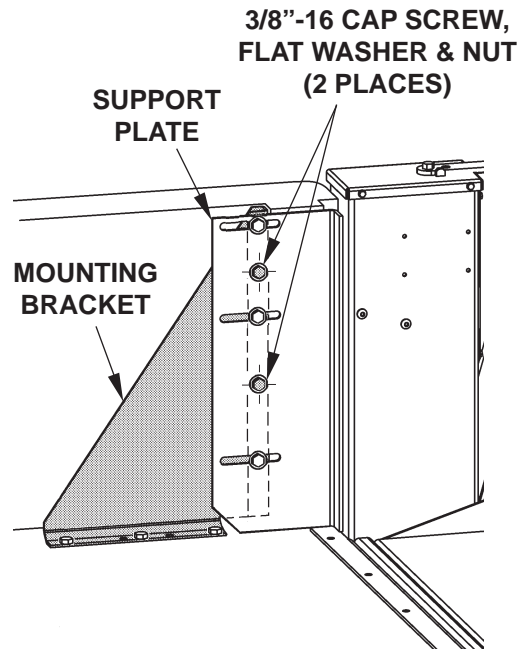


**BOLTING RH SUPPORT
PLATE TO TRUCK BED**
FIG. 16-1

- Bolt the mounting bracket and underbody strap to the floor as shown in (**FIG. 16-1**). Leave nuts and bolts loose until instructed to tighten nuts and bolts.
- Repeat instructions 2 through 4 for positioning and bolting the LH mounting bracket and LH support plate.
- Tighten the nuts and bolts, shown in **FIG. 16-1**, on the RH and LH mounting brackets.

NOTE: Refer to bolting methods shown in **FIGS. 15-1B & 15-1C**. Use shims (spacers) and longest bolts (Parts Box), if required.

- Use 13/32" drill bit to drill (2) bolt holes in RH support plate and mounting bracket (**FIG. 16-2**). Then, bolt the support plate to mounting bracket in 2 places (**FIG. 16-2**). Tighten the 2 bolts and nuts securely. Repeat for LH support plate and mounting bracket.



**SECURING RH SUPPORT
PLATE & MOUNTING BRACKET**
FIG. 16-2

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INSTALL ON 2012 CHEVY SILVERADO PICKUP TRUCK BODY

NOTE: The following table lists the Liftgate Installation Kits available for the 2012 Chevy Silverado Pickup Truck Bodies.

INSTALLATION KITS FOR CHEVY SILVERADO PICKUP BODIES	
PART NO.	APPLICATION
267611-41	LIFTGATE WITH STEEL PLATFORM & FLIPOVER
267611-21	LIFTGATE WITH ALUMINUM PLATFORM & FLIPOVER

TABLE 17-1

- Center the Liftgate on the truck body. Use the angle plate on Liftgate as a template to mark (6) holes and use 13/32" drill bit to drill (6) holes through truck body (**FIGS. 17-1A and 17-1B**). Bolt the angle plate to truck body (**FIG. 17-1B**).

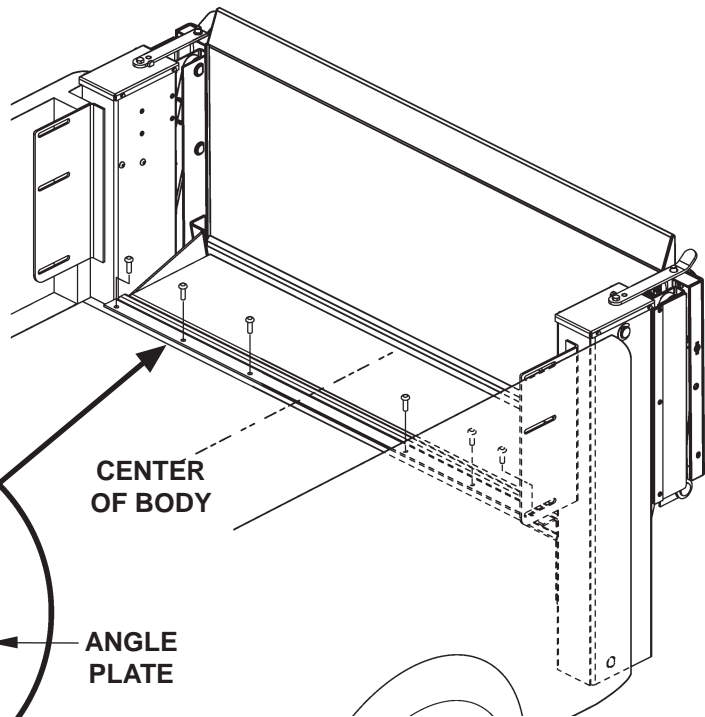
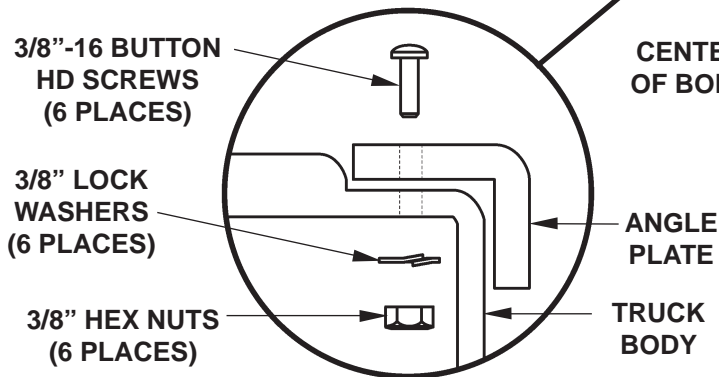


FIG. 17-1A



**BOLTING ON ANGLE PLATE
FIG. 17-1B**

CAUTION

Prevent damage to truck bed and Liftgate. Ensure both mounting brackets, bolted to Liftgate, are supported by both rear corner posts of the truck bed. If necessary, add structural supports between brackets and rear corner posts.

NOTE: Use longer bolts from Parts Box if shims are used between the mounting brackets and support plates. If shims are not used, use the shorter bolts.

- Butt RH mounting bracket against RH support plate on Liftgate and RH rear corner post of truck body (FIGS. 18-1A, 18-1B, and 18-1C). If mounting bracket is positioned over a valley in the floor of truck body, bolt shims between bracket and support plate to reposition the mounting bracket off the valley (FIG. 18-1C). If necessary, attach structural support (not supplied by MAXON) to fill gap between bracket and rear corner post (FIG. 18-1D). Then, bolt mounting bracket to support plate (FIGS. 18-1B and 18-1C).

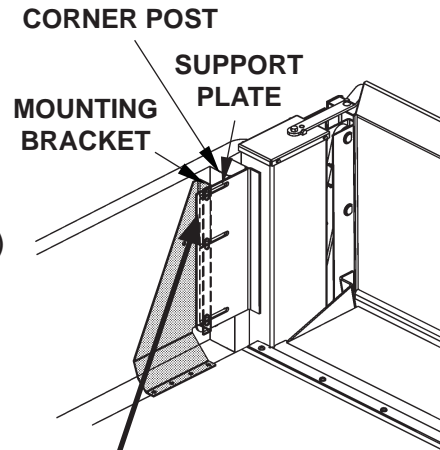
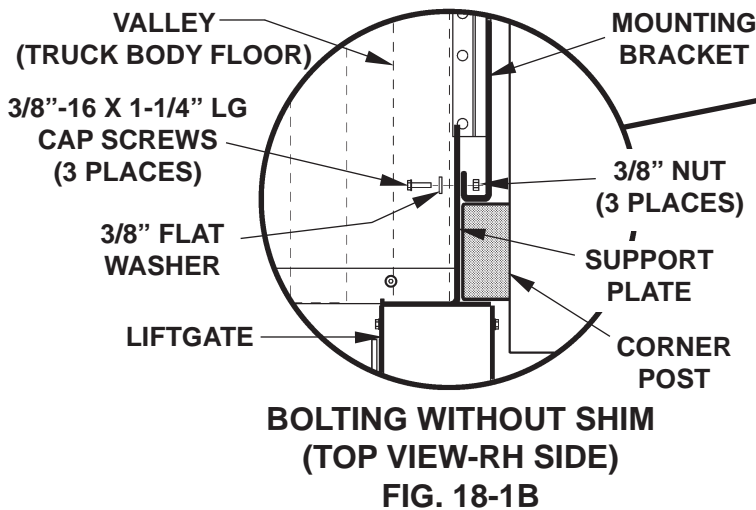
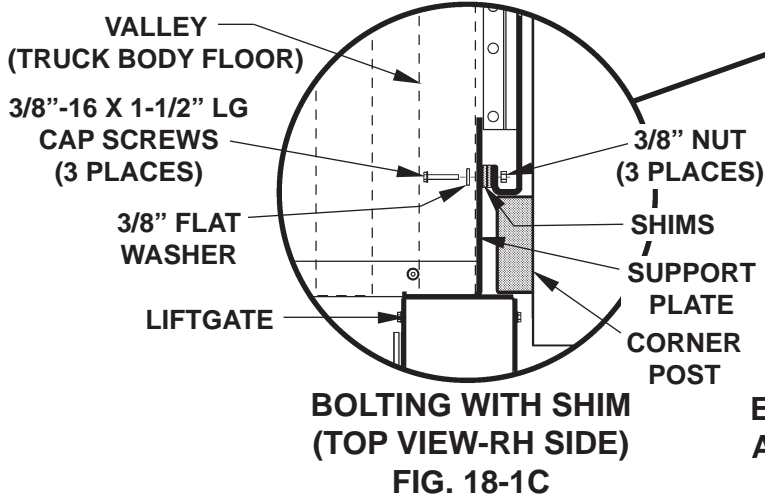


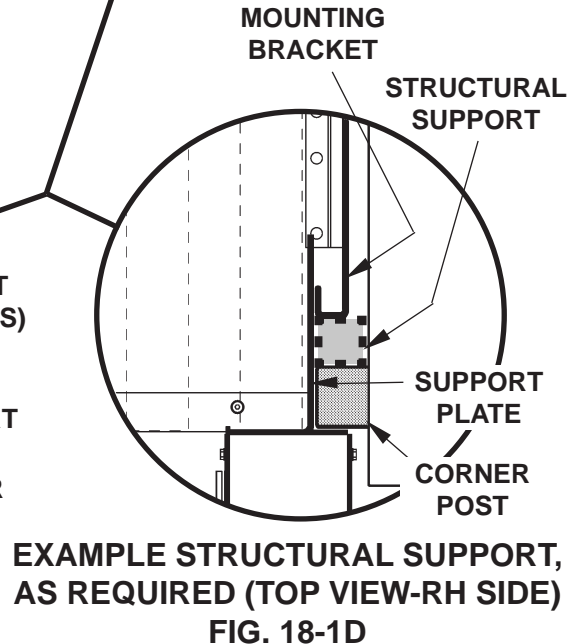
FIG. 18-1A



**BOLTING WITHOUT SHIM
(TOP VIEW-RH SIDE)
FIG. 18-1B**



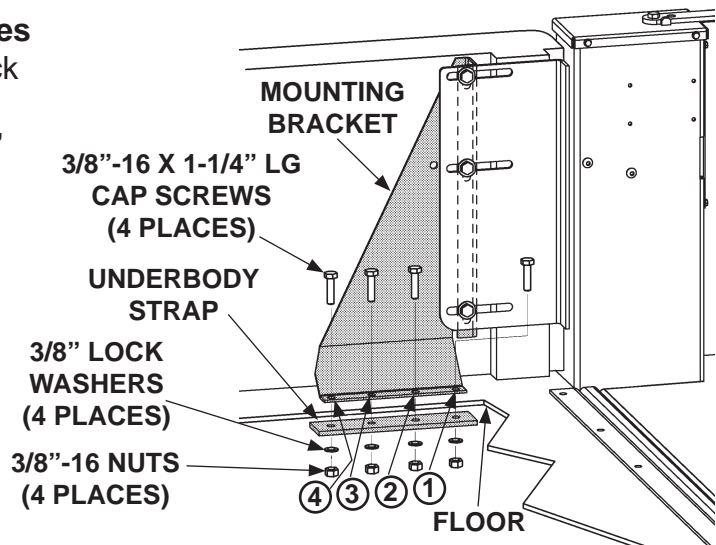
**BOLTING WITH SHIM
(TOP VIEW-RH SIDE)
FIG. 18-1C**



**EXAMPLE STRUCTURAL SUPPORT,
AS REQUIRED (TOP VIEW-RH SIDE)
FIG. 18-1D**

INSTALL ON 2012 CHEVY SILVERADO PICKUP TRUCK BODY Continued

3. Use the RH mounting bracket as a template to mark the position of **holes 1, 2, 3, and 4** on the floor of the truck body (**FIG. 19-1**). Then, drill the (4) holes through the floor with a 13/32" drill bit.

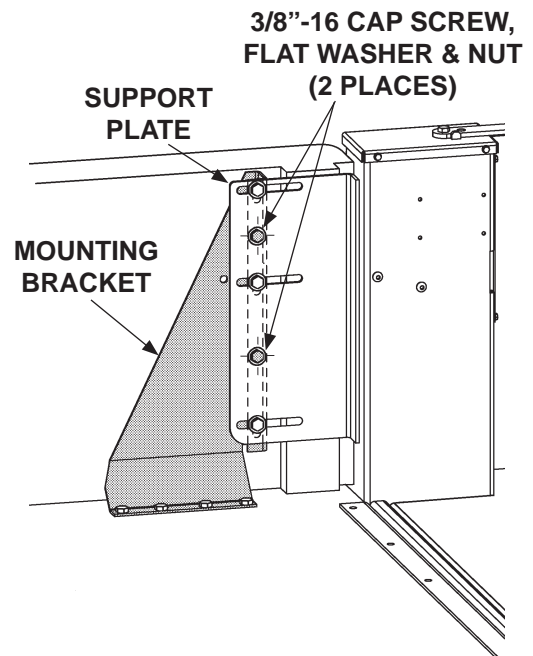


**BOLTING RH SUPPORT
PLATE TO TRUCK BED
FIG. 19-1**

4. Bolt the mounting bracket and underbody strap to the floor as shown in (**FIG. 19-1**). Leave nuts and bolts loose until instructed to tighten nuts and bolts.
5. Repeat instructions 2 through 4 for positioning and bolting the LH mounting bracket and LH support plate.
6. Tighten the nuts and bolts, shown in **FIG. 19-1**, on the RH and LH mounting brackets.

NOTE: Refer to bolting methods shown in **FIGS. 17-1B & 17-1C**. Use shims (spacers) and longest bolts (Parts Box), if required.

7. Use 13/32" drill bit to drill (2) bolt holes in RH support plate and mounting bracket (**FIG. 19-2**). Then, bolt the support plate to mounting bracket in 2 places (**FIG. 19-2**). Tighten the 2 bolts and nuts securely. Repeat for LH support plate and mounting bracket.



**SECURING RH SUPPORT
PLATE & MOUNTING BRACKET
FIG. 19-2**

INSTALL ON SUPER DUTY PICKUP TRUCK BODY

NOTE: The following table lists the Liftgate Installation Kits available for Super Duty Pickup Truck Bodies.

INSTALLATION KITS FOR SUPER DUTY PICKUP TRUCK BODIES	
PART NO.	APPLICATION
267611-02	LIFTGATE WITH STEEL PLATFORM
267611-52	LIFTGATE WITH ALUMINUM PLATFORM OR GRIP STRUT PLATFORM

TABLE 20-1

- Center the Liftgate on the truck body. Use the angle plate on Liftgate as a template to mark (6) holes and use 13/32" drill bit to drill (6) holes through truck body (**FIGS. 20-1A and 20-1B**). Then bolt the angle plate to truck body (**FIG. 20-1B**).

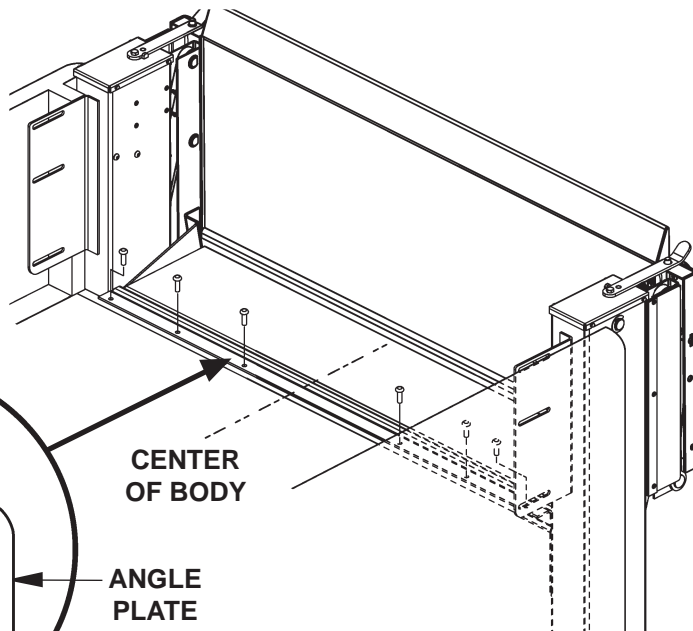


FIG. 20-1A

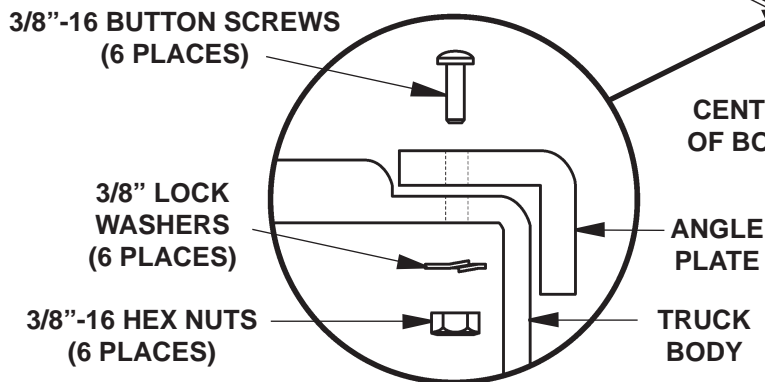
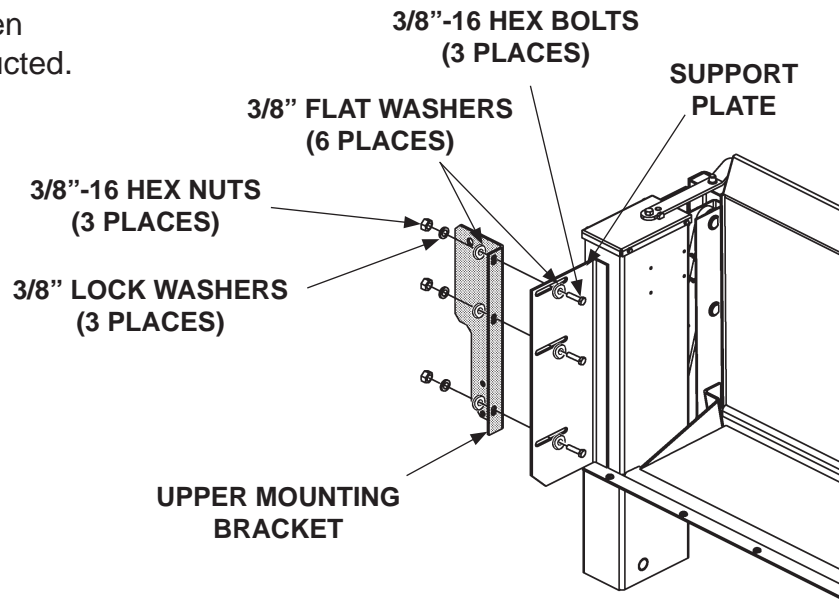


FIG. 20-1B

INSTALL ON SUPER DUTY PICKUP TRUCK BODY - Continued

2. Bolt the RH upper mount bracket to RH support plate (FIG. 21-1). Do not tighten nuts and bolts until instructed.



**BOLTING ON RH UPPER MOUNT BRACKET
FIG. 21-1**

3. Butt the RH upper mounting bracket against the truck body (**FIG. 22-1A**). Use the bracket as a template for marking (3) holes on the truck body and use a 17/32" drill bit for drilling (3) holes. Then bolt the upper mounting bracket as shown (**FIGS. 22-1A and 22-1B**).

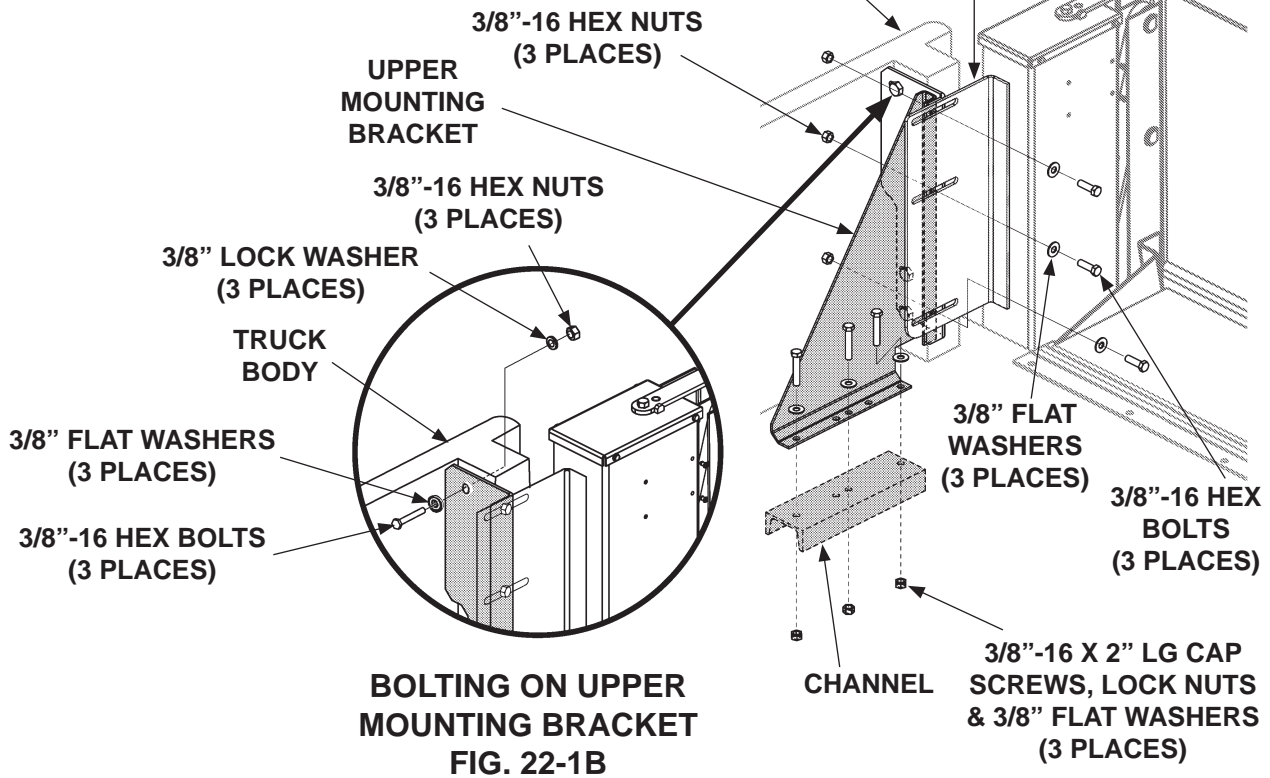


FIG. 22-1A

4. Bolt the upper mounting bracket to truck body as shown (**FIGS. 22-1A and 21-1B**).
5. Use the bracket as a template for marking (3) holes on the truck body and use a 17/32" drill bit for drilling (3) holes. Then mount the channel under the truck body and bolt the upper mounting bracket to the channel as shown (**FIG 21-1A**).
6. Repeat instructions 2 through 5 for bolting on the LH upper mounting bracket.
7. Tighten the nuts and bolts shown in **FIGS. 20-1, 22-1A, and 22-1B**, on the RH and LH upper mount brackets.

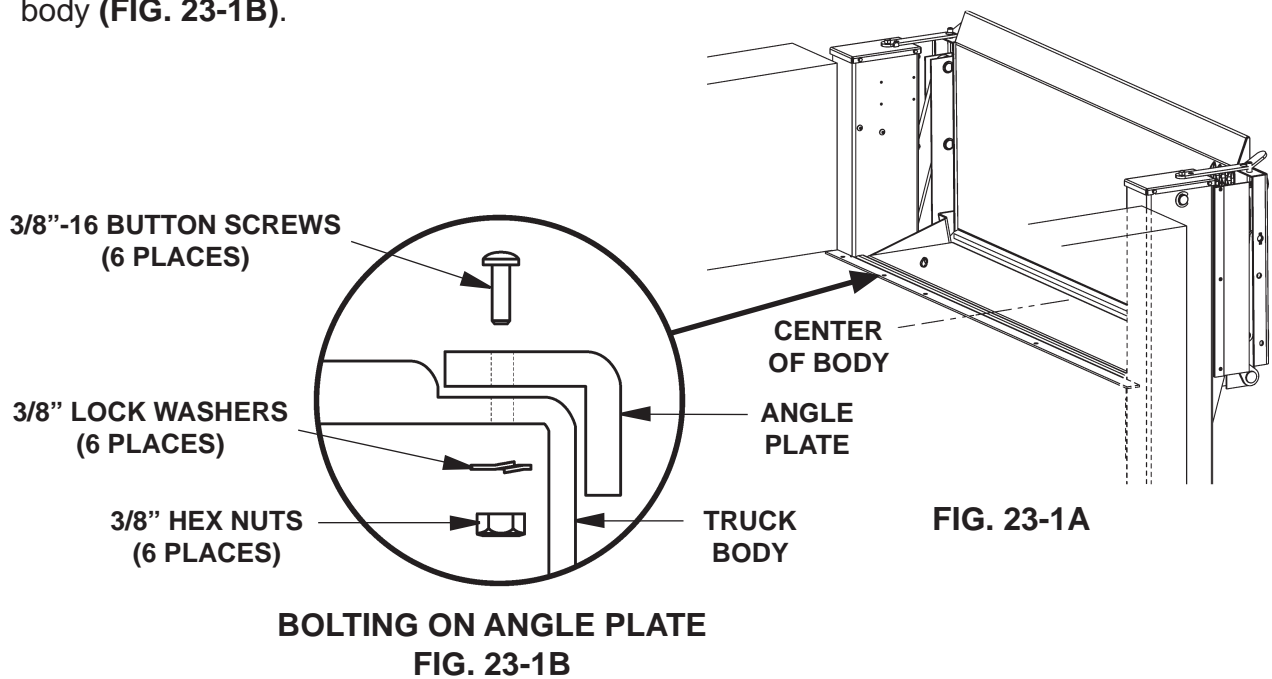
INSTALL ON SERVICE TRUCK BODY

NOTE: The following table lists the Liftgate Installation Kits available for Service Truck Bodies.

INSTALLATION KITS FOR SERVICE TRUCK BODIES	
PART NO.	APPLICATION
267611-03	LIFTGATE WITH STEEL PLATFORM
267611-53	LIFTGATE WITH ALUMINUM PLATFORM OR GRIP STRUT PLATFORM

TABLE 23-1

- Center the Liftgate on truck body. Use the angle plate on Liftgate as a template to mark (6) holes and use a 13/32" drill bit to drill (6) holes through truck body floor (**FIGS. 23-1A and 23-1B**). Then bolt the Liftgate to truck body (**FIG. 23-1B**).



CAUTION

When using electrical welder, make sure the welder ground lead is connected directly to the part being welded and as close as possible to the place being welded. Failure to comply can result in damaged cylinder and electrical parts.

NOTE: The accessible side of the LH and RH mounting brackets should be tack welded first to hold the brackets in the correct position.

2. Butt the RH mounting bracket against the RH side of truck body and Liftgate as shown in **FIG. 24-1**. Then tack weld the RH mounting bracket to Liftgate (**FIG. 24-1**). Repeat this step for LH mounting bracket.

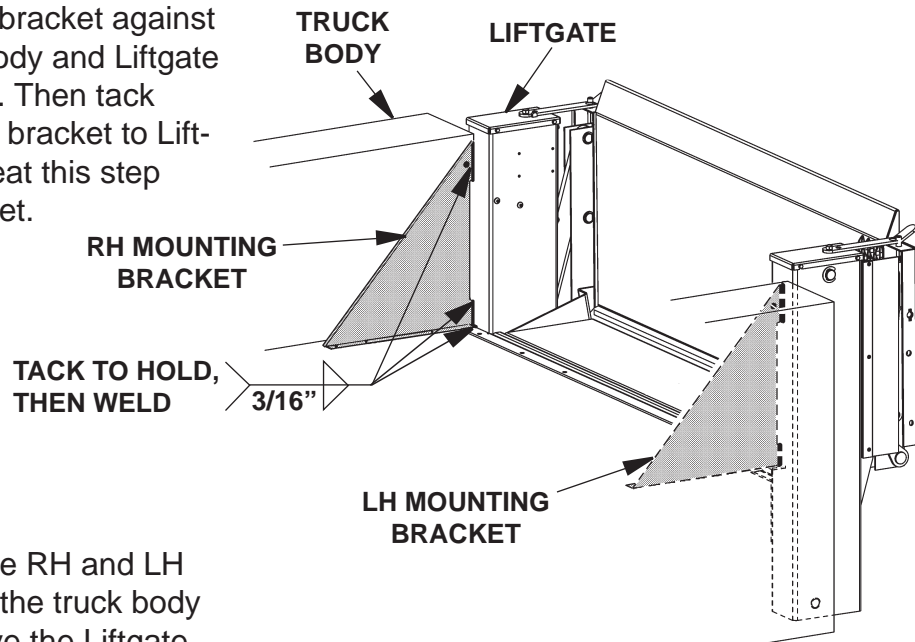


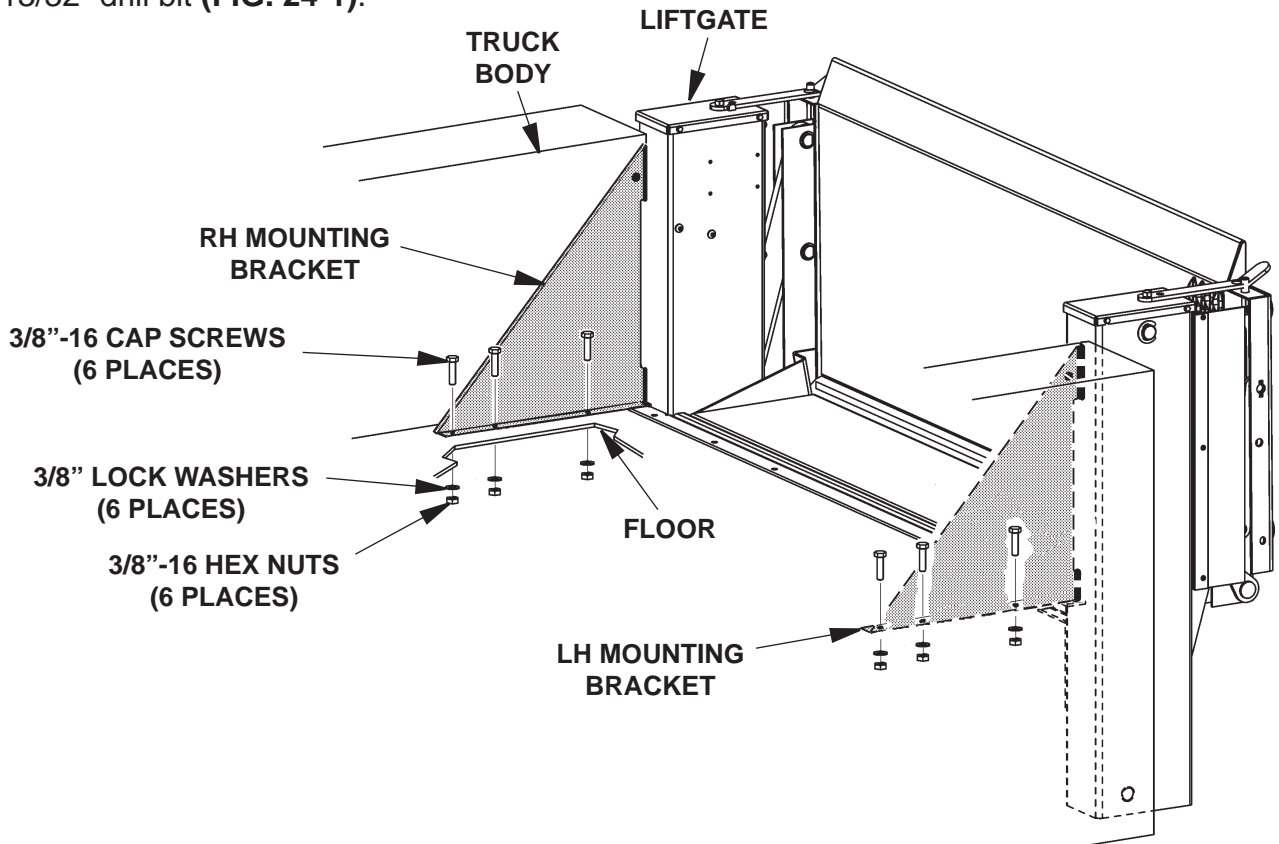
FIG. 24-1

3. Mark the position of the RH and LH mounting brackets on the truck body (**FIG. 24-1**). Next, move the Liftgate away from the truck body to gain access to the hidden side of the brackets.
4. Weld the RH and LH mounting brackets to Liftgate (**FIG. 24-1**). Then move the Liftgate back in the correct position marked on the truck body.

INSTALL ON SERVICE TRUCK BODY - Continued

NOTE: Ensure the Liftgate is moved to the correct position on the truck body before marking and drilling the mounting holes in the body.

5. Use the RH and LH mounting brackets as a template to mark position of (3) holes per bracket on the floor of the truck body. Then, drill (3) holes per bracket in the floor with a 13/32" drill bit (**FIG. 24-1**).



**BOLTING MOUNTING BRACKETS
FIG. 25-1**

6. Bolt RH and LH mounting brackets to truck body floor as shown in **FIG. 25-1**.

STEP 3 - MOVE FORKLIFT

1. Unchain the Liftgate from forklift.

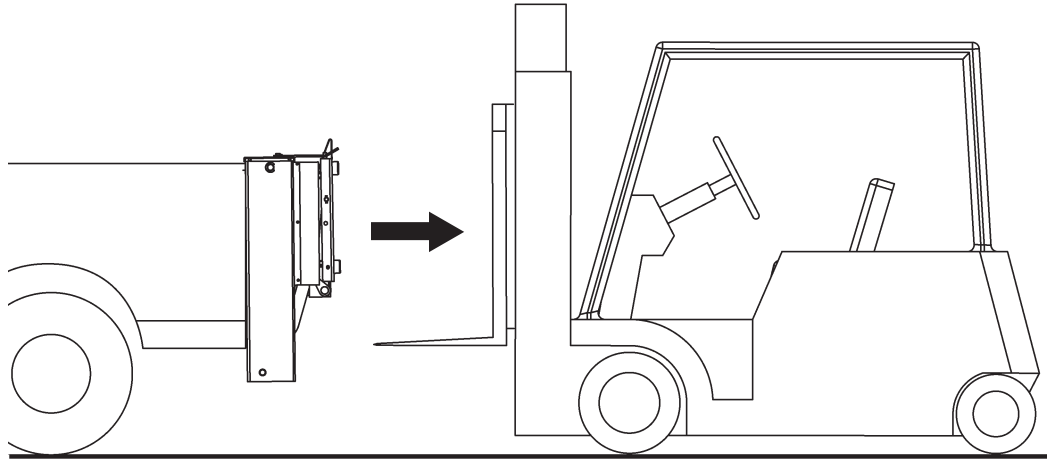


FIG. 26-1

2. Back out the forklift (**FIG. 26-1**) and move it out of the way.

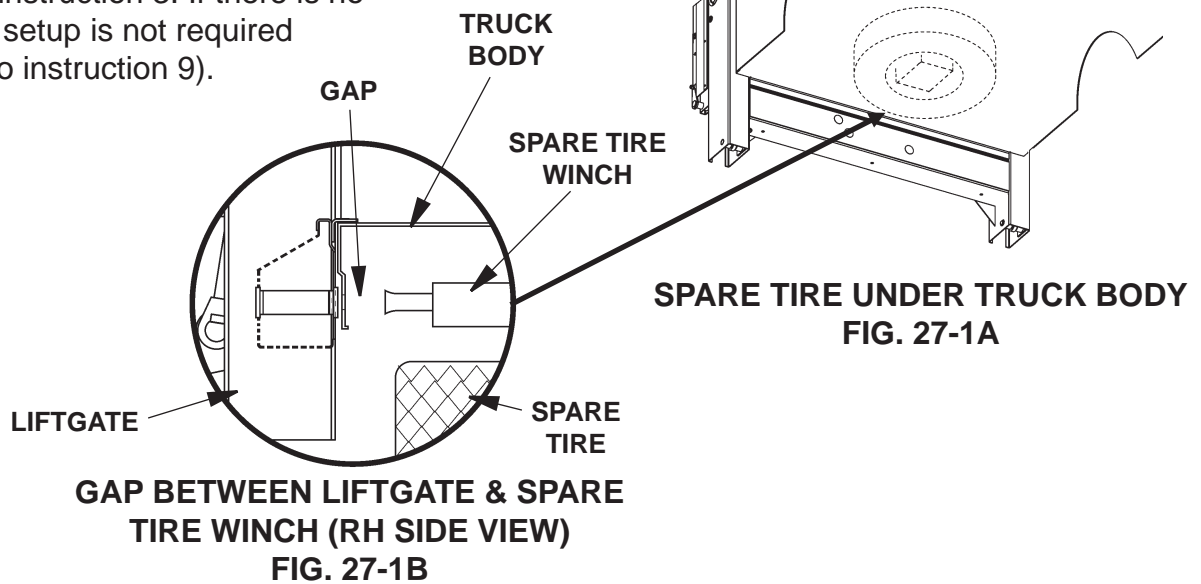
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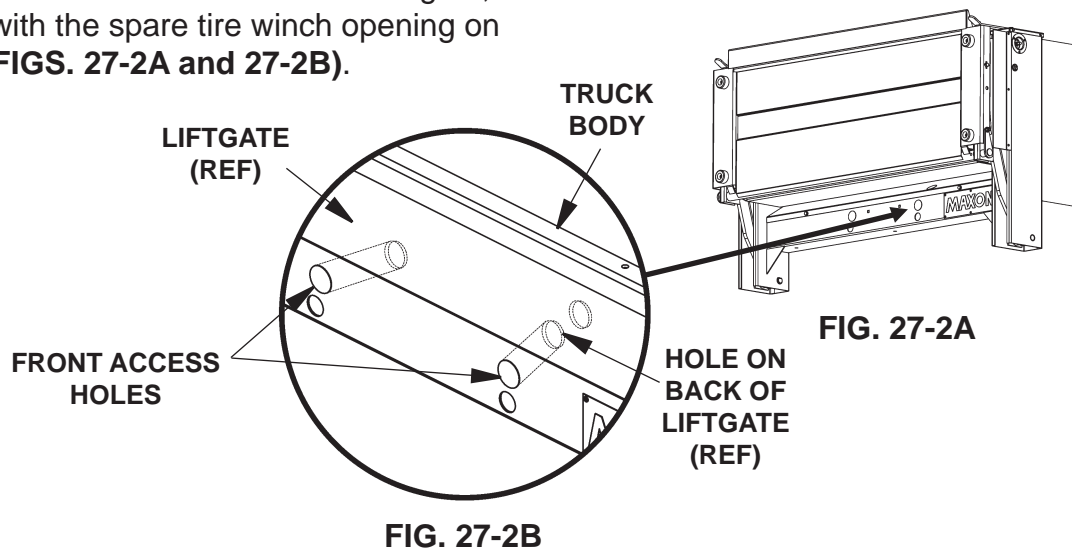
STEP 4 - SET UP SPARE TIRE ACCESS

NOTE: If there is a gap between the access hole in Liftgate and the spare tire winch under the truck body, a tube must be installed to guide winch handle to the winch.

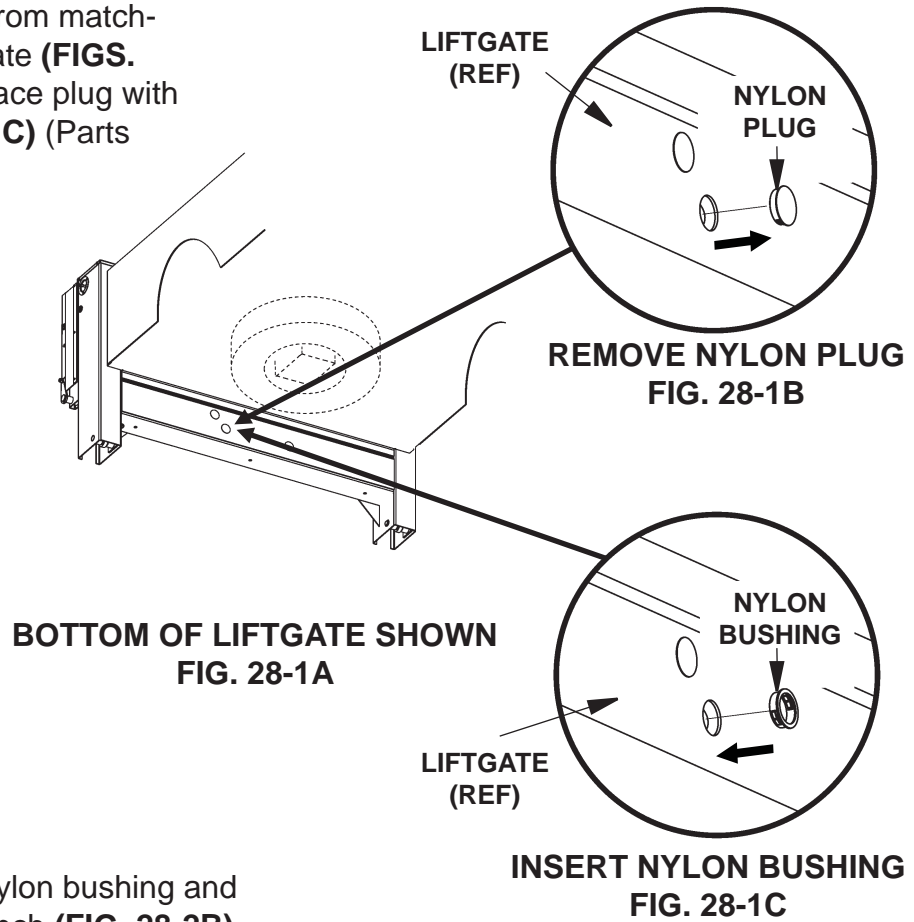
1. Lower spare tire enough to see the spare tire winch under truck body.
2. Check under truck body for gap between the access holes in back of the Liftgate and the opening for the spare tire winch (**FIGS. 27-1A and 27-1B**). If there is a gap, continue with instruction 3. If there is no gap, setup is not required (go to instruction 9).



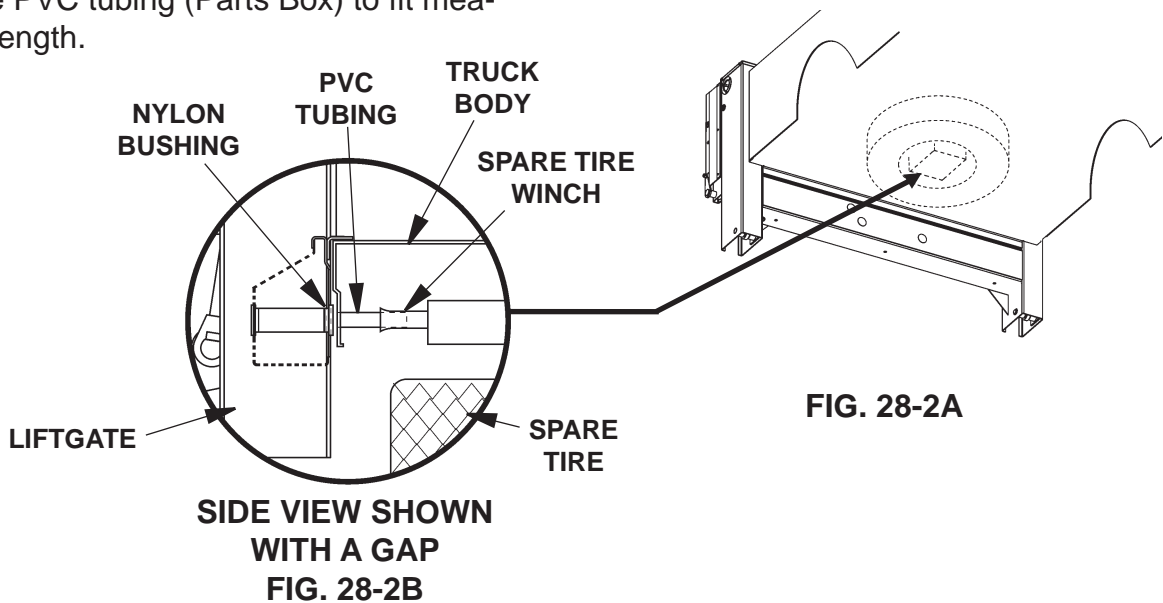
3. Locate the front and back holes on the Liftgate, that line up with the spare tire winch opening on truck body (**FIGS. 27-2A and 27-2B**).



4. Remove the nylon plug from matching hole on back of Liftgate (**FIGS. 28-1A and 28-1B**). Replace plug with nylon bushing (**FIG. 28-1C**) (Parts Box).



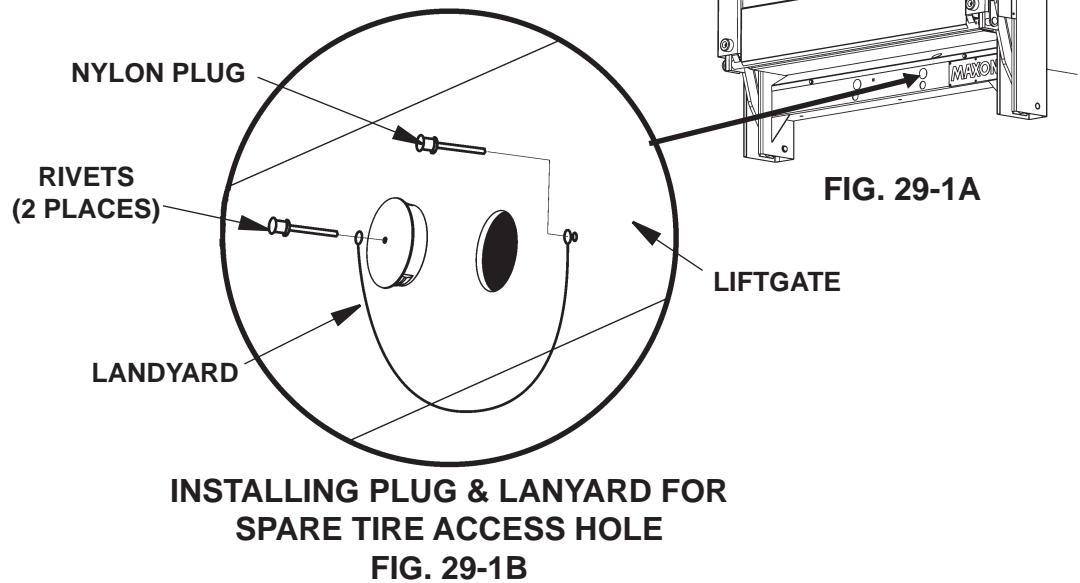
5. Measure gap between nylon bushing and opening for spare tire winch (**FIG. 28-2B**). Cut the PVC tubing (Parts Box) to fit measured length.



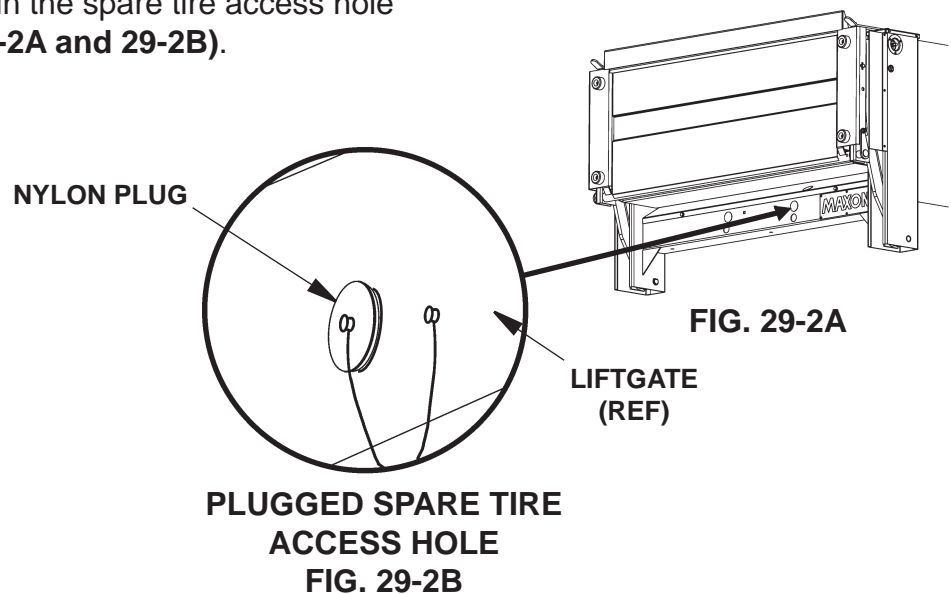
6. Place the PVC tubing between the nylon bushing and opening in the spare tire winch (**FIG. 28-2B**).

STEP 4 - SET UP SPARE TIRE ACCESS - Continued

7. Use #10 drill bit to drill .194" holes in nylon plug (removed before) and near the access hole for spare tire winch. Rivet the plug to lanyard (Parts Box) and rivet lanyard to Liftgate (**FIGS. 29-1A and 29-1B**).



8. Insert the nylon plug in the spare tire access hole on Liftgate (**FIGS. 29-2A and 29-2B**).



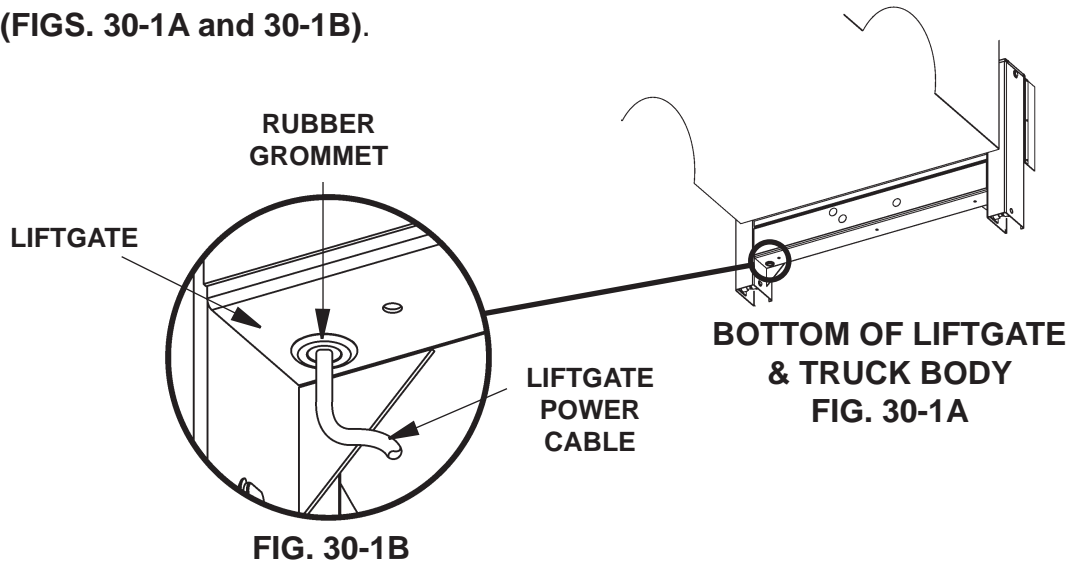
9. Stow the spare tire under truck body.

STEP 5 - RUN POWER CABLE

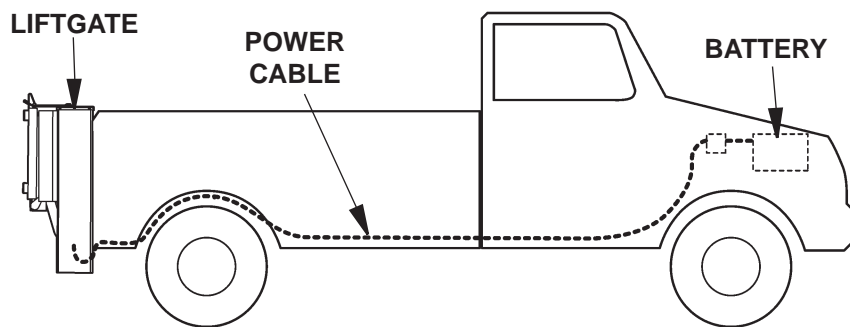
CAUTION

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

1. Locate the power cable at the bottom of the Liftgate (FIGS. 30-1A and 30-1B).



2. Run the power cable along the truck frame to the truck battery (FIG. 30-2). Use plastic ties (Parts Box) to secure power cable to truck.



**RUNNING POWER CABLE FROM
LIFTGATE TO BATTERY
FIG. 30-2**

3. On the bare wire end of power cable, keep enough length to attach copper terminal lug (Parts Box item) and reach the truck battery without putting tension on cable, when connected (FIG. 30-2).

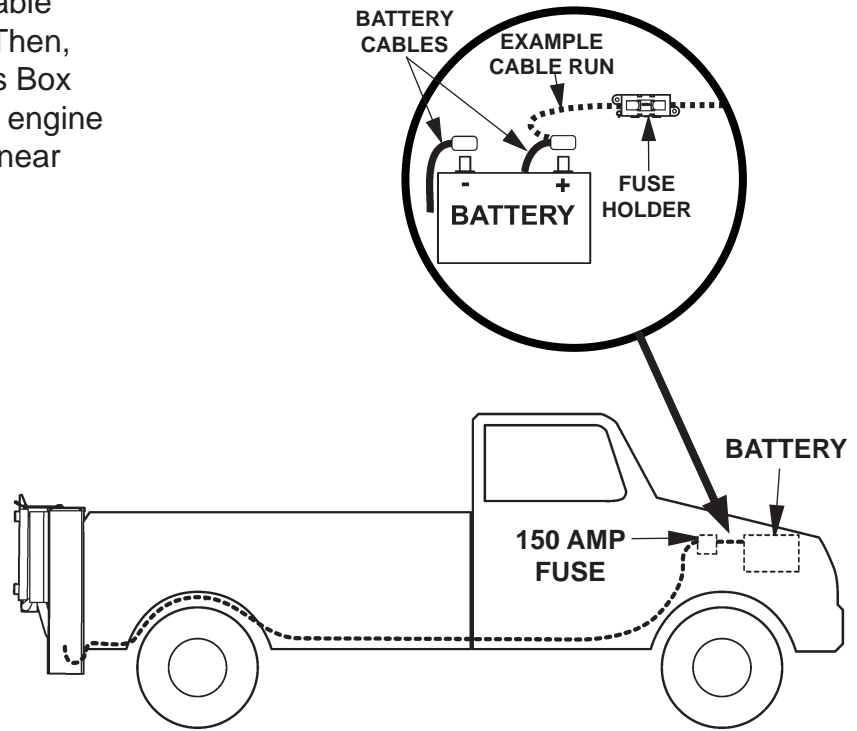
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STEP 5 - RUN POWER CABLE - Continued

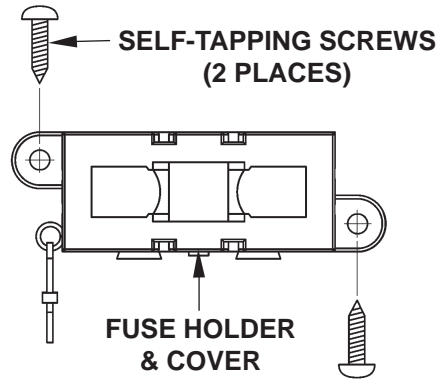
NOTE: Fuse must be placed, as close as possible, to (+) terminal on vehicle battery.

4. Disconnect negative (-) cable from battery (**FIG. 31-1**). Then, position fuse holder (Parts Box kit item) on the wall of the engine compartment (**FIG. 31-1**) near (+) battery terminal.



**POSITIONING FUSE HOLDER
FIG. 31-1**

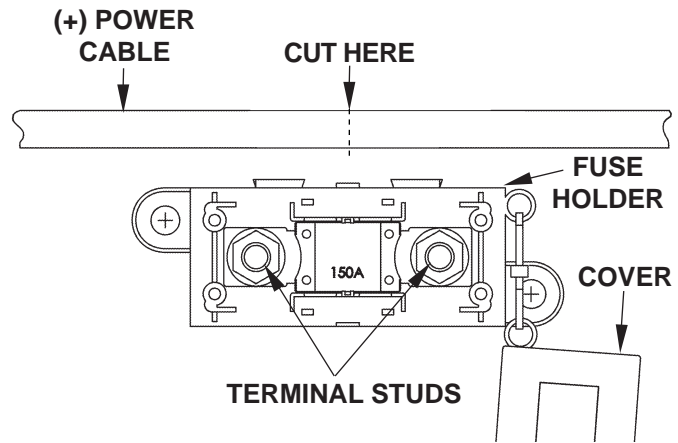
5. Use fuse holder (**FIG. 32-1**) to mark and drill 2 holes in wall of the battery compartment. Fasten fuse holder to battery compartment with 2 self-tapping screws.



**FASTENING FUSE HOLDER TO BATTERY COMPARTMENT
FIG. 32-1**

NOTE: Ensure there is enough cable to run from the (+) battery post to the fuse holder terminal, without putting strain on the cable.

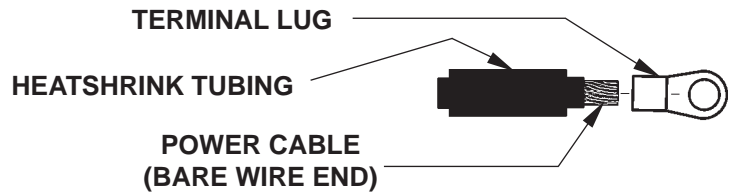
6. Run the (+) power cable to the fuse holder (**FIG. 32-2**). Then, open the cover of the fuse holder. Cut the (+) power cable as shown in **FIG. 32-2**.



**FITTING POWER CABLE TO FUSE HOLDER
FIG. 32-2**

STEP 5 - RUN POWER CABLE - Continued

- Put heatshrink tubing (Parts Box item) (**FIG. 33-1**) over each bare cable end (leave room for terminal lug). Crimp a terminal lug (Parts Box item) on each bare end of power cable (**FIG. 33-1**). Then shrink the heatshrink tubing over the barrel of the lug (**FIG. 33-2**).

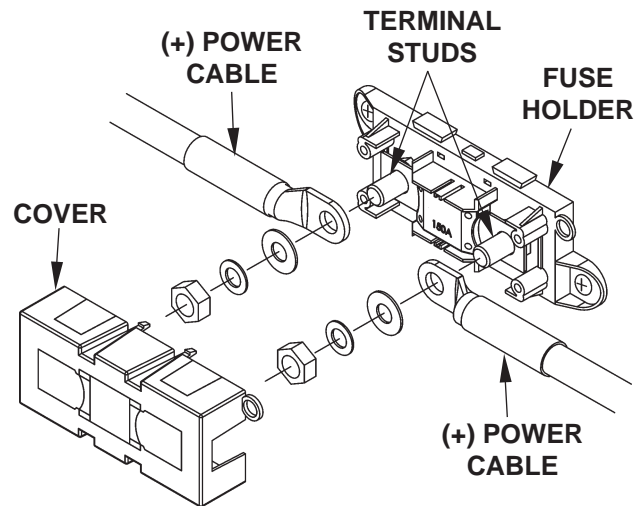


PLACING TERMINAL LUG & HEATSHRINK TUBING ON POWER CABLE
FIG. 33-1



TYPICAL POWER CABLE WITH TERMINAL LUG INSTALLED
FIG. 33-2

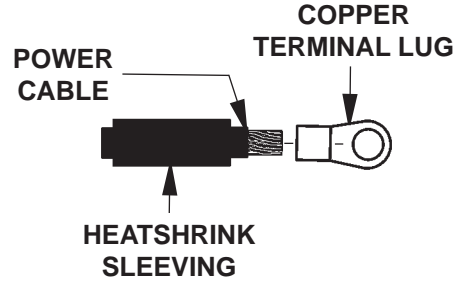
- Connect both of the (+) power cable ends to the terminal studs on the fuse holder (**FIG. 33-3**). Tighten nuts securely.



CONNECTING (+) CABLE TO FUSE HOLDER
FIG. 33-3

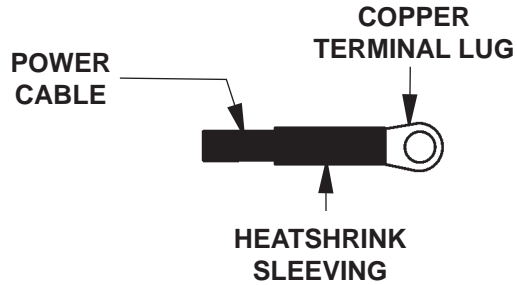
STEP 6 - CONNECT POWER CABLE TO BATTERY

1. Measure (if needed) and then cut excess cable from bare wire end of cable. Put heatshrink tubing (Parts Box) (FIG. 34-1) on the end of the cable. Leave room for terminal lug (FIG. 34-1).



POWER CABLE WITH BARE WIRE END
FIG. 34-1

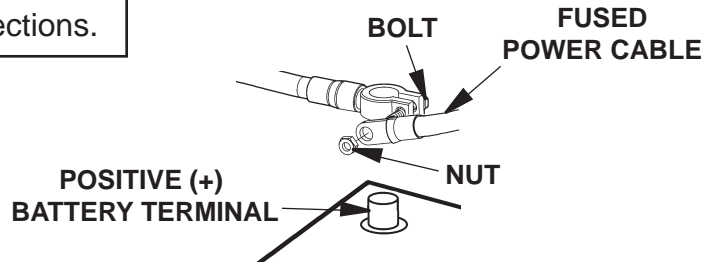
2. Crimp copper terminal lug (from Parts Box) on the power cable (FIG. 34-2) and shrink the heatshrink tubing.



POWER CABLE WITH CRIMPED & INSULATED TERMINAL LUG
FIG. 34-2

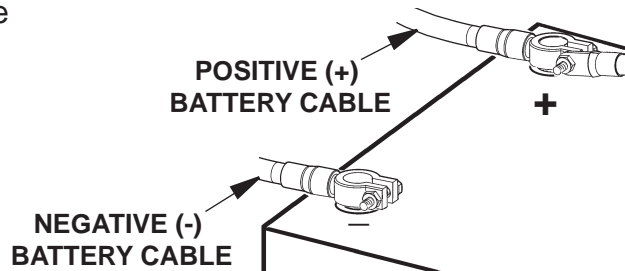
NOTE: MAXON recommends using dielectric grease on all electrical connections.

3. Remove nut from positive (+) battery terminal connector. Connect power cable to the positive (+) battery terminal connector (FIG. 34-3). Reinstall and tighten nut.



CONNECTING POWER CABLE
FIG. 34-3

4. Reconnect positive (+) battery cable to positive (+) battery terminal (FIG. 34-4). Then, reconnect negative (-) battery cable to negative (-) battery terminal.



RECONNECTING BATTERY CABLES
FIG. 34-4

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STEP 7 - CHECKING HYDRAULIC FLUID

CAUTION

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

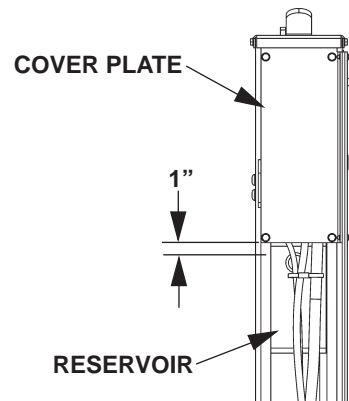
NOTE: Use correct grade of hydraulic fluid for your location.

+50 to +120 Degrees F - Grade ISO 32

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

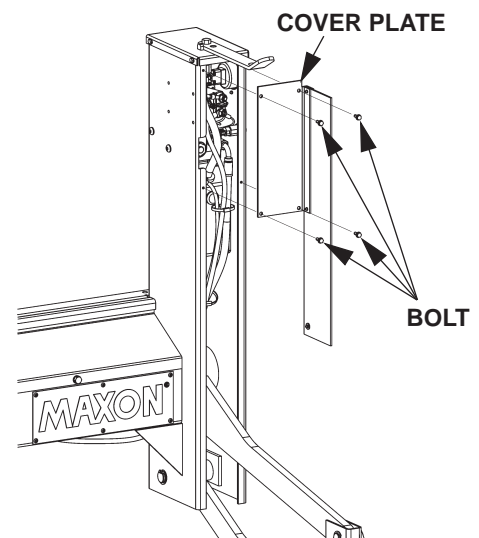
See **TABLES 36-1 & 36-2** for recommended brands.

1. Open and lower platform to ground level.
2. Check the hydraulic fluid level in reservoir (**FIG. 35-1**). Level should be about even with bottom of cover plate (**FIG. 35-1**). If needed, add hydraulic fluid as follows.



CHECKING FLUID LEVEL
FIG. 35-1

3. Unbolt the cover plate to gain access to filler tube (**FIG. 35-2**).



REMOVING COVER PLATE
FIG. 35-2

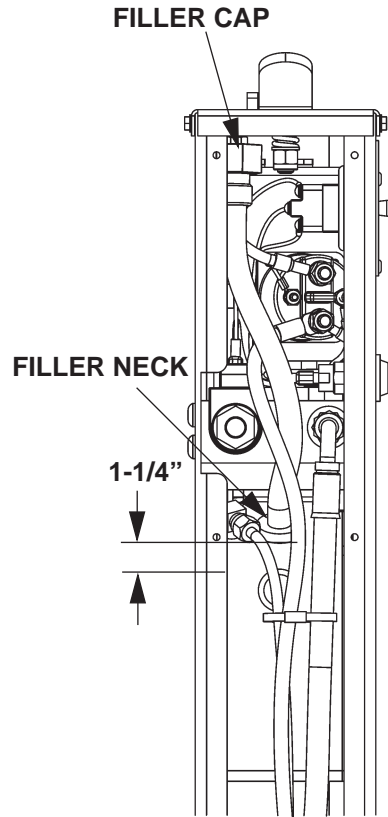
4. Remove filler cap (**FIG. 36-1**). Add hydraulic fluid to 1-1/4" below filler neck (**FIG. 36-1**).

5. Reinstall filler cap (**FIG. 36-1**).

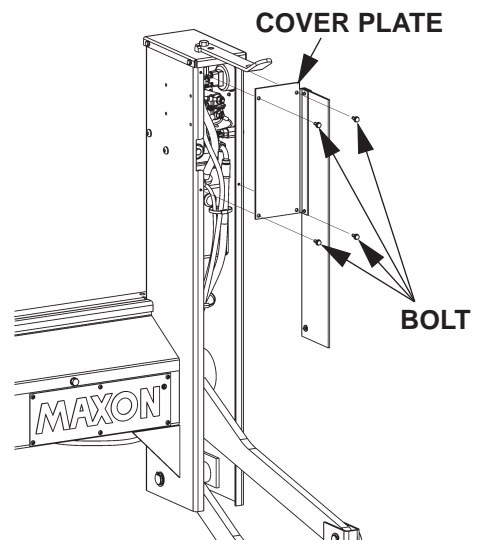
CAUTION

Cover plate must be correctly secured to prevent it from becoming a hazard. To secure cover, bolt it in place on the Liftgate.

6. Bolt on the cover plate (**FIG. 36-2**). Tighten bolts snug.



CHECKING FLUID LEVEL
FIG. 36-1



REINSTALLING COVER PLATE
FIG. 36-2

STEP 7 - CHECKING HYDRAULIC FLUID - Continued

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

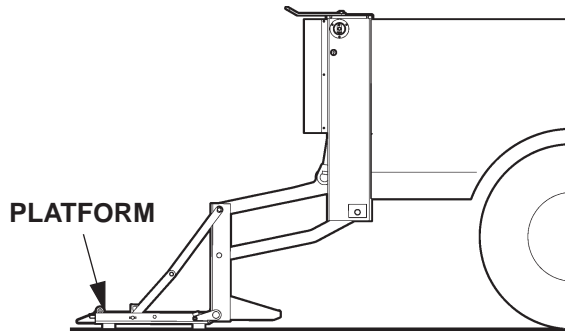
TABLE 37-1

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
ROSEMEAD	THS FLUID 17111

TABLE 37-2

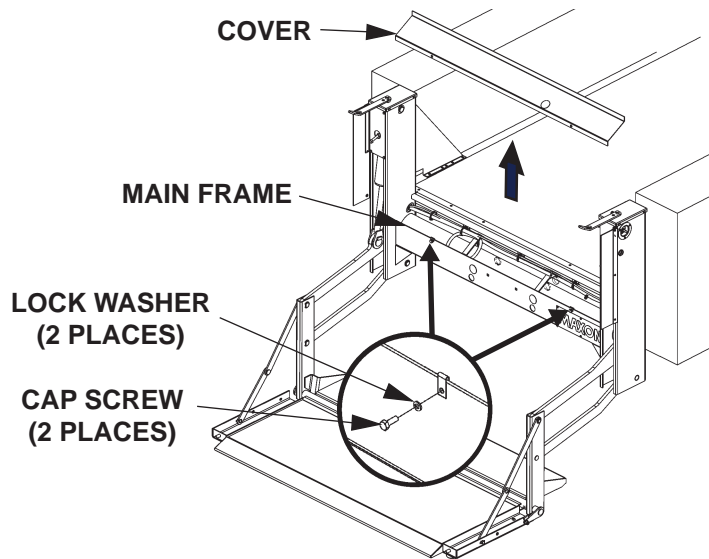
STEP 8 - ATTACH LIGHTS & LICENSE PLATE

1. Make sure platform is at ground level (**FIG. 38-1**).



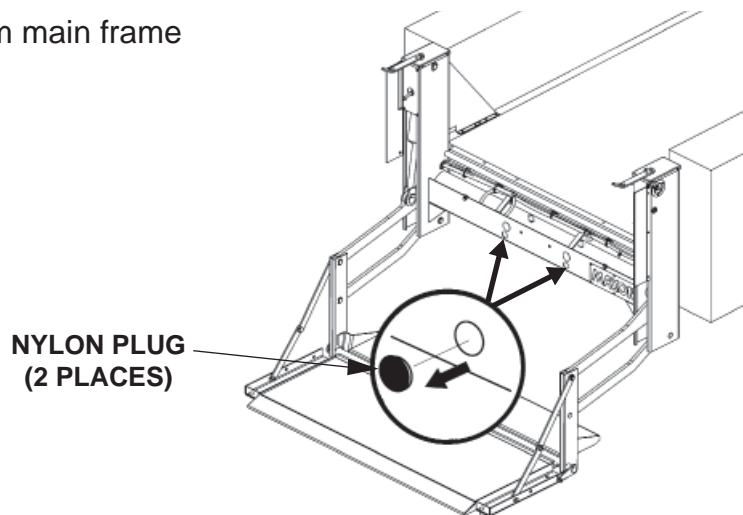
**PLATFORM AT GROUND LEVEL
FIG. 38-1**

2. Unbolt and remove cover from main frame (**FIG. 38-2**).



**REMOVING COVER
FIG. 38-2**

3. Remove 2 nylon plugs from main frame (**FIG. 38-3**).



**REMOVING PLUGS
FIG. 38-3**

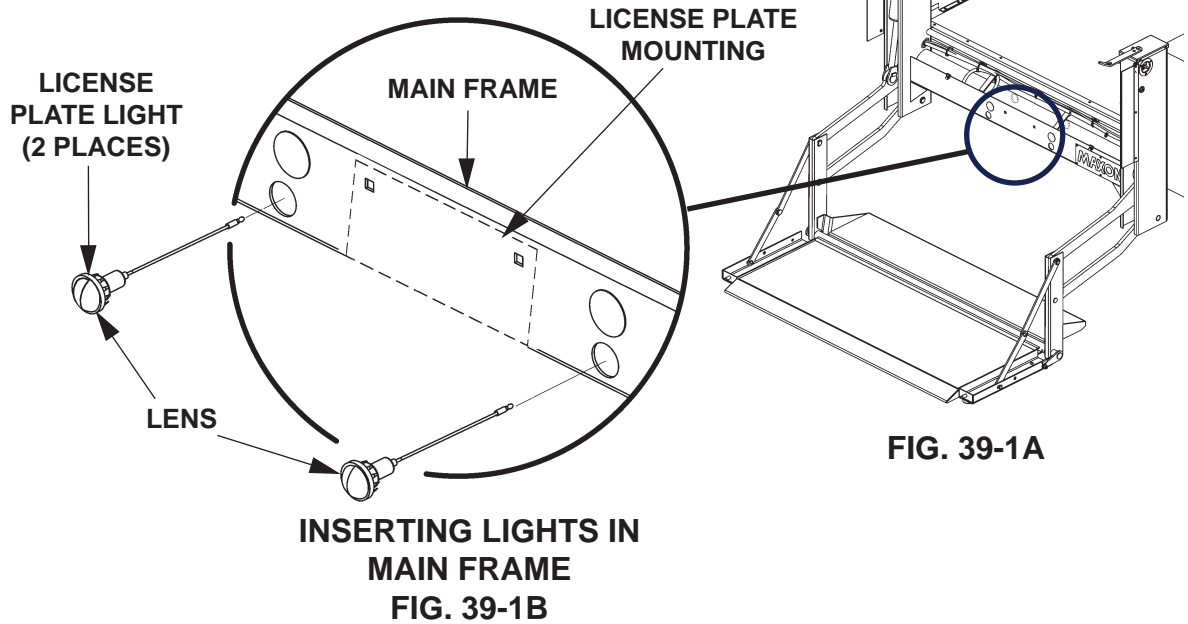
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STEP 8 - ATTACH LIGHTS & LICENSE PLATE - Continued

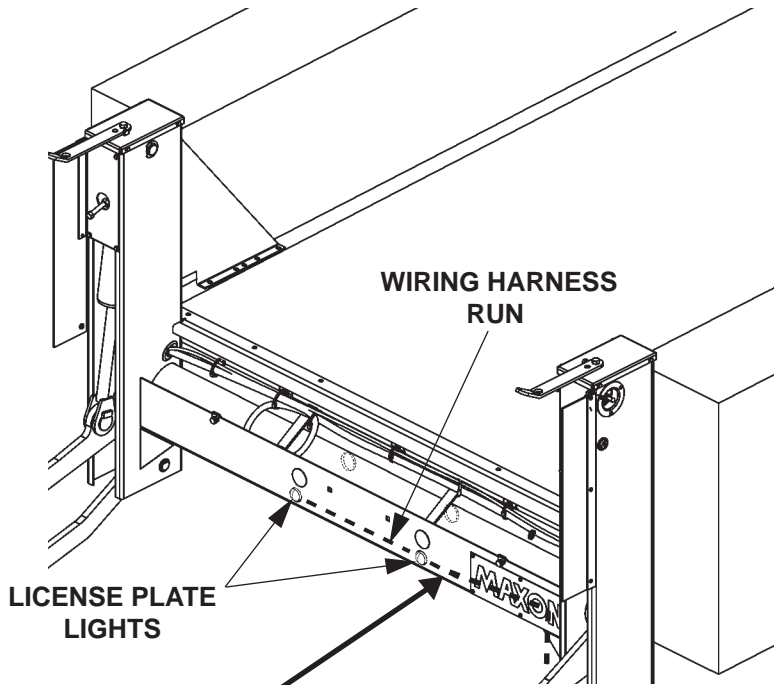
NOTE: The lens on each license plate light must face inboard toward the license plate mounting area.

4. Insert a license plate light (Parts Box item) in the 2 holes in the main frame (**FIGS. 39-1A and 39-1B**). Position each lens to face inboard.

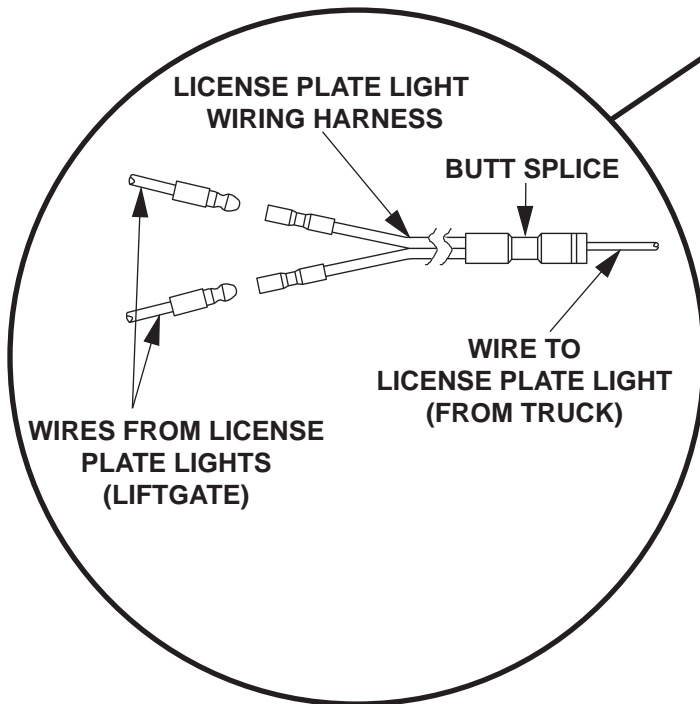


NOTE: MAXON recommends using dielectric grease on all electrical connections.

5. Connect the license plate lights wiring harness (**FIGS. 40-1A and 40-1B**) to each of the license plate lights (**FIG. 40-1A**). Then splice the wiring harness (**FIG. 40-1B**) to the wire for the license plate light on truck.



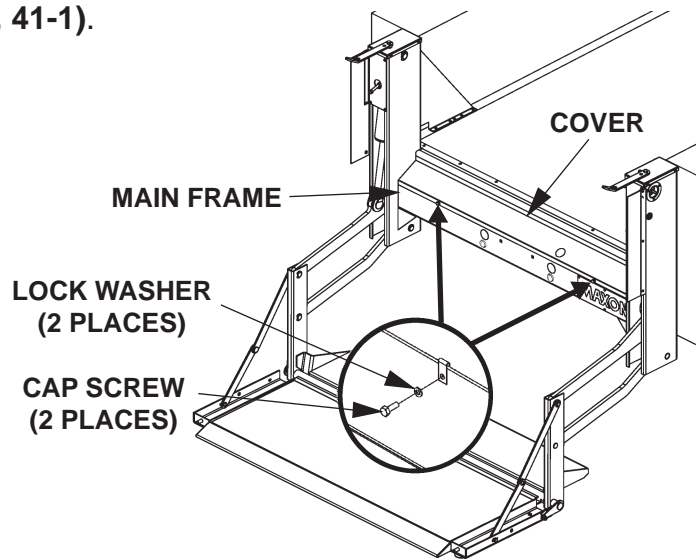
RUNNING LICENSE PLATE LIGHTS WIRING HARNESS FIG. 40-1A



CONNECTING WIRING HARNESS FIG. 40-1B

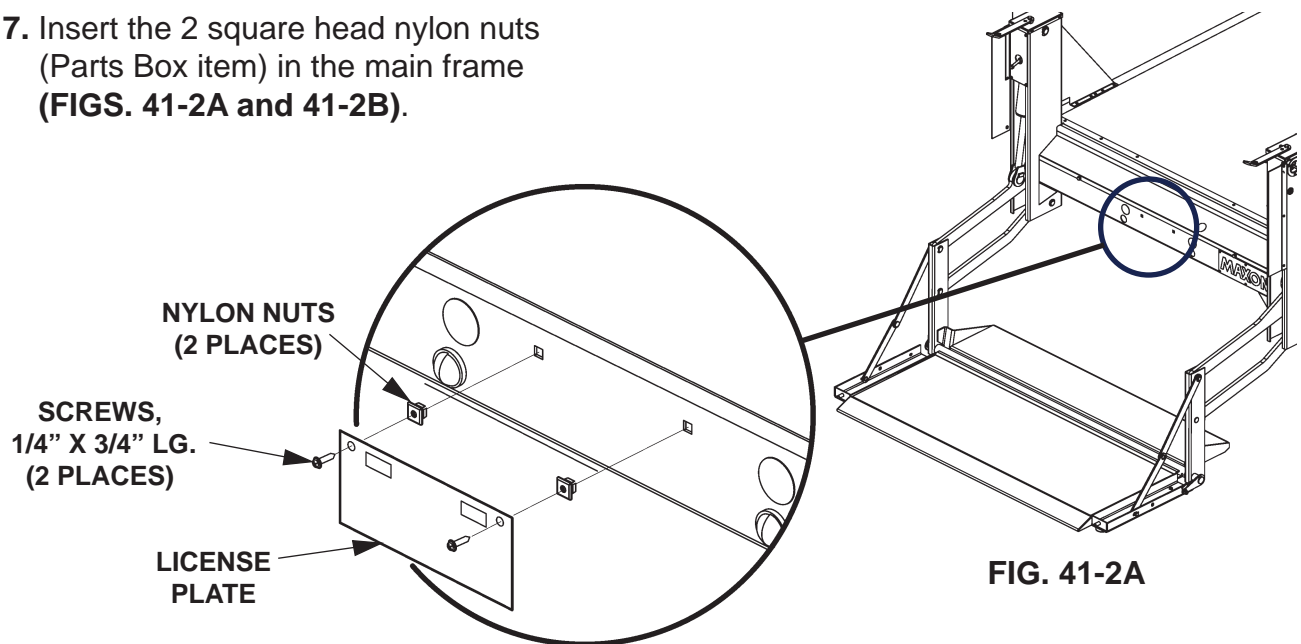
STEP 8 - ATTACH LIGHTS & LICENSE PLATE - Continued

6. Bolt the cover to main frame (FIG. 41-1).



BOLTING ON COVER
FIG. 41-1

7. Insert the 2 square head nylon nuts (Parts Box item) in the main frame (FIGS. 41-2A and 41-2B).



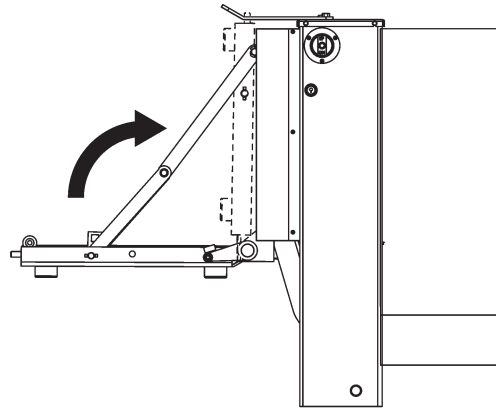
BOLTING ON LICENSE PLATE
FIG. 41-2B

8. Use 1/4" x 3/4" long screws (Parts Box item) to bolt the truck license plate to the nylon nuts (FIG. 41-2B).

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9. Raise the platform to bed height (**FIG. 42-1**).
Then stow the platform (**FIG. 42-1**).



STOWING PLATFORM
FIG. 42-1

10. Turn on truck lights to verify the license plates lights operate.

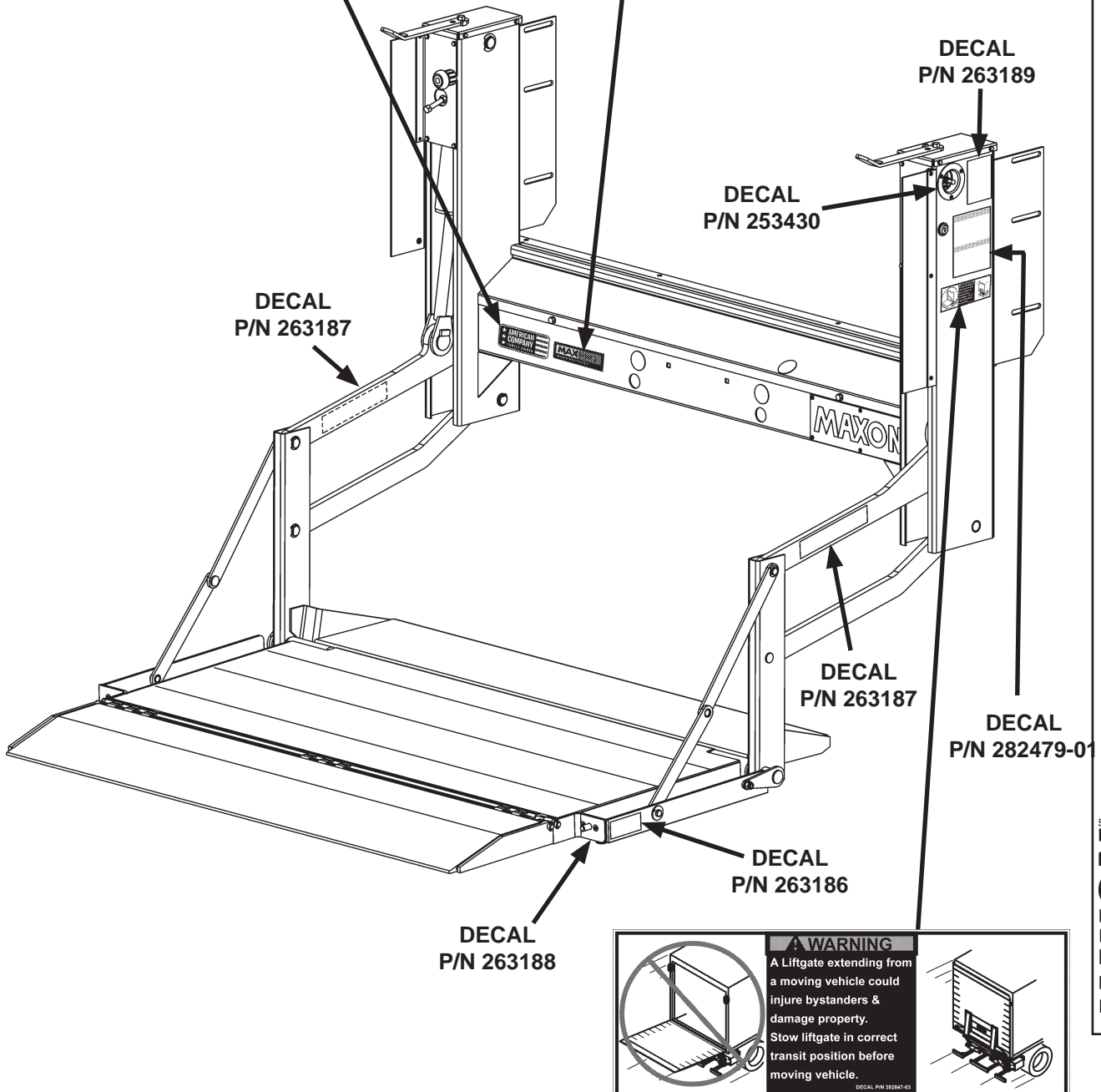
ATTACH DECALS



FAMILY OWNED DECAL
P/N 283445-01



PAINT DECAL
P/N 267338-01



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WARNING

Read this information carefully.

- Improper operation of this Liftgate can result in serious personal injury. If you do not have a copy of the operating instructions, please obtain them from your employer, distributor, or lessor before you attempt to operate Liftgate.
- If there are signs of improper maintenance, damage to vital parts, or slippery platform surface, do not use the Liftgate until these problems have been corrected.
- Do not operate a forklift on the platform.
- Do not allow any part of yours or your helper's body to be placed under, within, or around any portion of the moving Liftgate, or its mechanisms, or in a position that would trap them between the platform and the ground or truck when the Liftgate is operated.
- MAXON recommends that you do not ride on the platform. If you choose to ride the platform, make sure you are doing so safely and that you are not in danger of coming in contact with any moving or potentially moving obstacles. The operation manual shows where to stand if you ride on the platform.
- **USE GOOD COMMON SENSE**
- If load appears to be unsafe, do not lift or lower it.

For a free copy of other manuals that pertain to this model Liftgate, please visit our website at www.maxonlift.com or call Customer Service at (800) 227-4116.

SAFETY INSTRUCTIONS

Read all decals and operation manual before operating liftgate.

1. Do not use liftgate unless you have been properly instructed and have read, and are familiar with, the operating instructions.
2. Do not move vehicle when operating liftgate. Be certain vehicle is properly and securely braked on level ground before using the liftgate.
3. Always inspect this liftgate for maintenance or damage before using it. Do not use liftgate if it shows any sign of damage or improper maintenance.
4. Do not overload
5. Make certain the area in which the platform will open and close is clear before opening or closing the platform.
6. Make certain platform area, including the area in which loads may fall from platform, is clear before and at all times during operation of liftgate.
7. This liftgate is intended for loading and unloading of cargo only. Do not use this liftgate for anything but its intended use.

P/N 282479-01

WARNING & SAFETY INSTRUCTIONS DECAL
P/N 282479-01

OPERATING INSTRUCTIONS

1. Release both Corner Latches and Manually lower the Platform to the Horizontal Position.
2. Activate Power to Liftgate.
3. Push Toggle Switch "UP" to Raise the Platform. Push Toggle Switch "DOWN" to Lower the Platform.

CORNER LATCH

TOGGLE SWITCH

POWER ACTIVATION SWITCH

P/N 263189

INSTRUCTION DECAL
P/N 263189

WARNING

THE MAXIMUM CAPACITY OF THIS LIFT IS

1300 lbs.

WHEN LOAD IS CENTERED ON THE PLATFORM.

P/N 263186

CAPACITY DECAL
P/N 263186

WARNING

STAND CLEAR WHEN RELEASING PLATFORM STORAGE LATCHES

P/N 263188

CAUTION DECAL
P/N 263188

WARNING

KEEP CLEAR OF THIS AREA

P/N 263187

CAUTION DECAL
P/N 263187

UP

DN

UP & DOWN DECAL
P/N 253430

