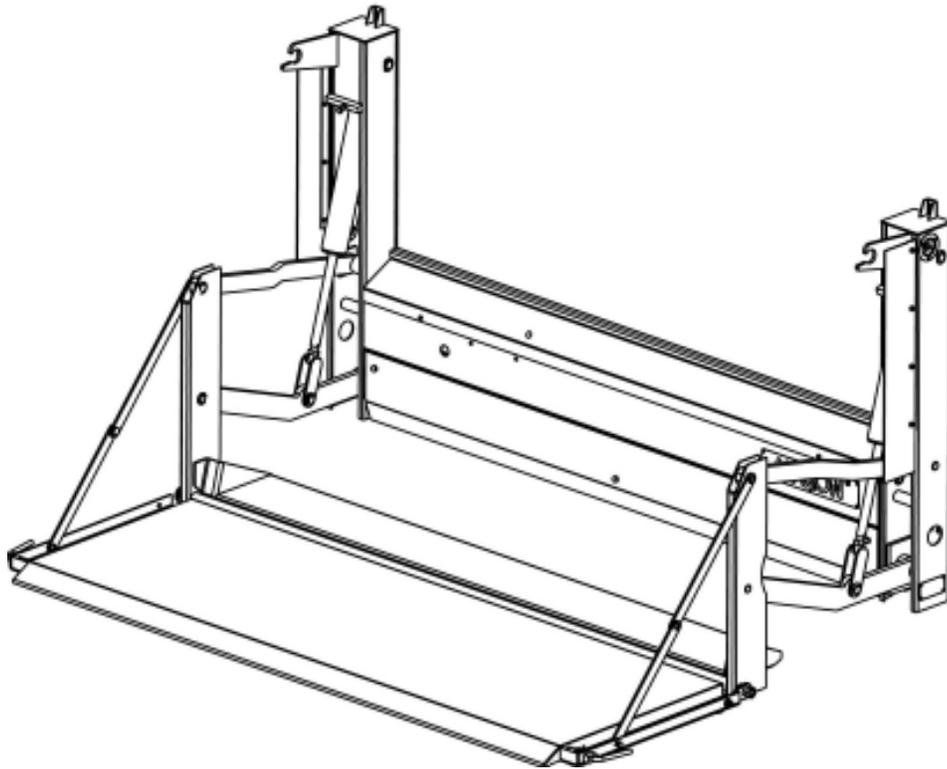


M-00-33
APRIL 2000

INSTALLATION MANUAL



MM-1650

MAXON[®]
LIFT CORP.

11921 Slauson Avenue.
Santa Fe Springs, CA. 90670
(800) 227-4116

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LIFT CORP.

11921 Slauson Ave.
Santa Fe Springs, CA. 90670

CUSTOMER SERVICE:

(562) 464-0099

(800) 227-4116

FAX: (888) 771-7713

TECHNICAL SERVICE:

(800) 8-MAXTEK (862-9835)

NOTE: Check with Customer Service Department for updated versions of Manuals on an annual basis.

WARRANTY POLICY & PROCEDURE

NEW LIFTGATE WARRANTY

Term of Warranty: 2 Years from Date of In-Service

Type of Warranty: Full Parts and Labor

MAXON agrees to replace any components which are found to be defective during the first 2 years of service, and will reimburse for labor based on MAXON's Liftgate Warranty Flat Rate Labor Schedule. (Call MAXON Customer Service for a copy).

All claims for warranty must be received within 30 Days of the repair date, and include the following information:

1. Liftgate Model Number
2. Liftgate Serial Number
3. Description of Problem
4. Corrective Action Taken, and Date of Repair.
5. Parts used for Repair, Including MAXON Part Number(s).
6. MAXON R.G.A. # and/or Authorization # if applicable (see below).
7. Person contacted at MAXON if applicable.

PURCHASE PART WARRANTY

Term of Warranty: 1 Year from Date of Purchase Type of Warranty: Part Replacement and Replacement Labor.

MAXON will guarantee all returned genuine replacement parts upon receipt, and inspection of parts and invoice. All Warranty repairs must be performed by an authorized MAXON warranty station.

For major repairs, MAXON's Warranty Department must be notified, and an "Authorization Number" received. Major repairs would generally be considered repairs made to the structural assembly of the liftgate and/or repairs not outlined in the MAXON Liftgate Warranty Flat Rate Schedule.

Major components (i.e. hydraulic pumps, cylinders, valves, or failed structural parts) must be returned, freight pre-paid, prior to the claim being processed. To ensure timely processing of these warranty claims, an R.G.A. (Returned Goods Authorization) number must be obtained from MAXON's Warranty Department prior to the return of any defective part. Defective Parts must be returned within 60 days of the claim date for consideration to:

**Warranty Department, MAXON Lift Corp.
5920 Alameda St., Huntington Park, CA. 90255**

MAXON's warranty policy does not include the reimbursement for travel time; towing; vehicle rental; service calls; fabrication of parts which are available from MAXON; oil; defects due to misuse or abuse; loss of income due to downtime.

MAXON's Flat Rate Labor Schedule times takes into consideration time required for diagnosis of problem.

Warranty and Technical Information is available by calling MAXON's Customer Service Department.

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INTRODUCTION

This publication contains the information required to install the **MM-1650**. If there is any doubt regarding the suitability of these lifts being installed on its intended vehicle, or any portion of these instructions that you do not understand, please contact the **MAXON Customer Service Department** for consultation.

Unauthorized modification to this equipment may cause premature failure or create hazards in its use that are not foreseen at the time of installation. These kinds of changes should be discussed with our Engineering Department before being undertaken.



CAUTION! MOUNTING



1. When installing Taillight Systems, consult the Chassis or Trailer manufacturer's instructions for splicing into the vehicles lighting circuit.
2. **CONSPICUITY DECALS:** Federal Motor Vehicle Safety Standards call out for the placement of retro-reflective sheeting, or reflex reflectors on all vehicles prior to their being delivered. These decals or reflectors are not supplied with the lift gate. Refer to the standard for details.

Before you start!

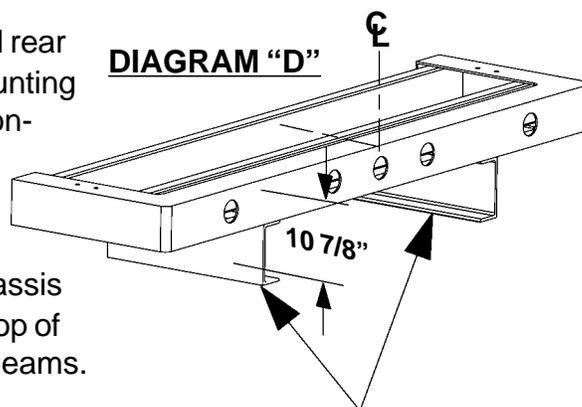
The dimension of the open liftgate Platform length must be added to the body length when considering proper weight distribution on the truck chassis. In other words, be mindful of the possibility that a loaded liftgate could raise the front wheels off of the ground.

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BODY PREPARATION

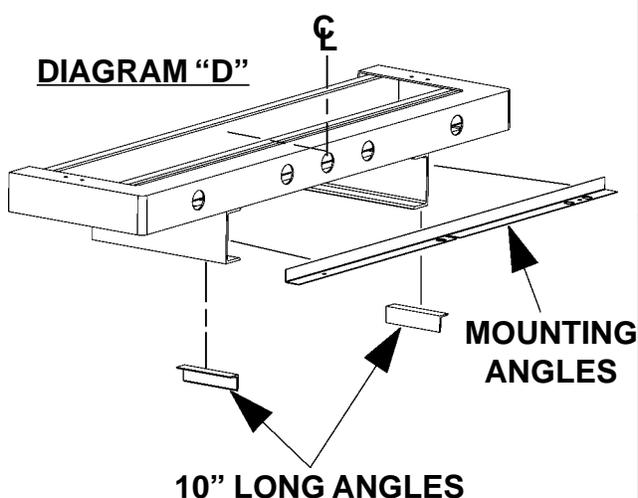
1. Remove any objects that extend past the vertical rear surface of the vehicle body to which you are mounting this liftgate. This includes, but is not limited to non-flush rear lights, bumpers, brackets, etc.



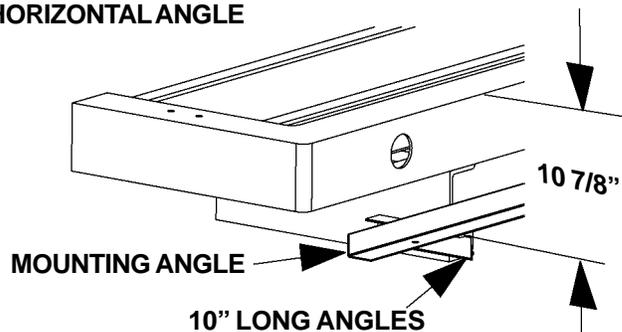
2. Measure and mark the outside of the vehicle chassis with a horizontal mark exactly 10-7/8" from the top of the vehicle bed. Do this on both of the chassis beams.

CHASSIS BEAMS

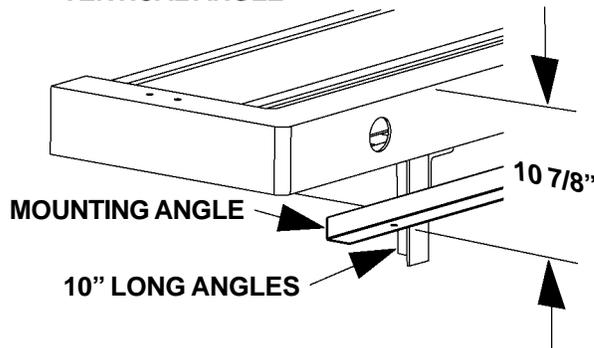
3. Remove the Mounting Angle from the bottom of the Liftgate. Position the Mounting Angle to be exactly centered with the vehicle bed, and to where the top of the Mounting Angles' horizontal leg is even with the horizontal marks on the vehicle chassis. Tack weld into place.



HORIZONTAL ANGLE



VERTICAL ANGLE



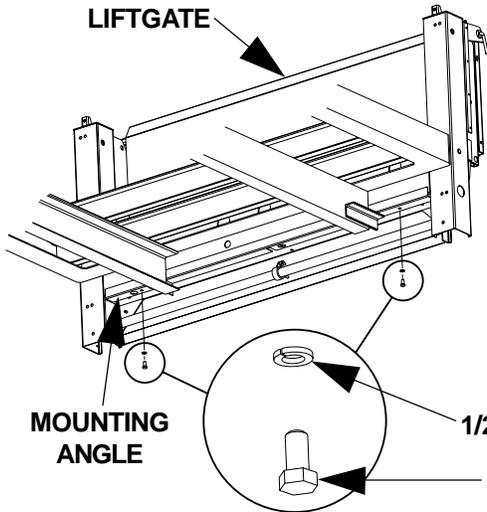
4. Double check that the Mounting Angle is square with, and centered on the vehicle bed. Also that the top surface of the Mounting Angles' horizontal leg is exactly 10-7/8" below the vehicle bed.
5. Position the two 10" long angles underneath the Mounting Angle, and against the outside of each vehicle chassis beam for support. Do not extend the 10" angles past the rear surface of the Mounting Angle. Weld the 10" angles to the vehicle chassis, and then to the Mounting Angle. (NOTE: The depth of the vehicle chassis beam varies. You may have to rotate the 10" angle 90° to support the vertical surface of the Mounting Angle.)

PLATFORM OR STAKE BODY INSTALLATION

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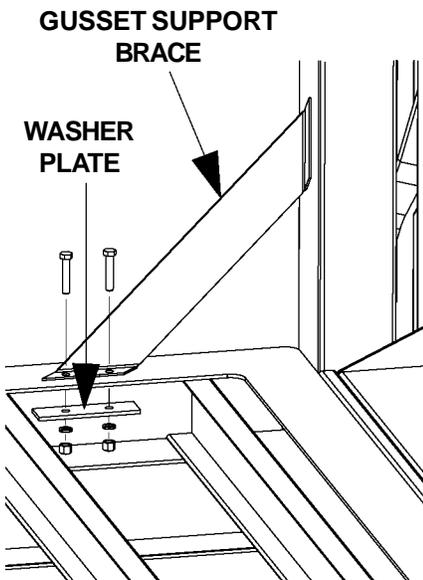
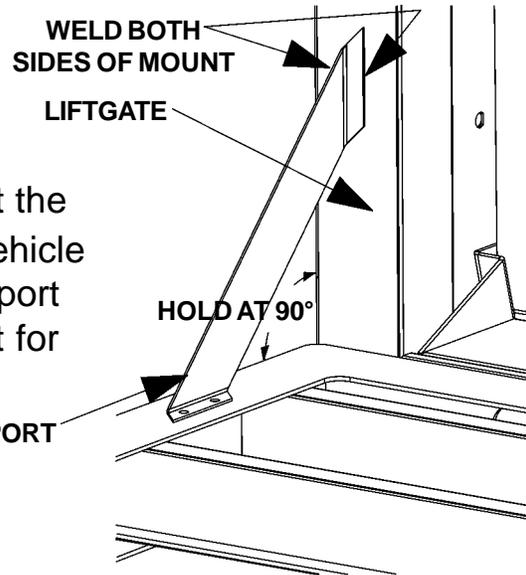
11921 Slauson Ave. Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713

1. Before mounting Liftgate, see if any modification to the vehicle body is needed to access battery cable from the Main Frame Housing.



2. Place the Liftgate on the Mounting Angle and line up the holes on the bottom of the Liftgate with the holes on the Mounting Angle. Bolt together with two (2) 1/2-13 UNC x 1-1/4" Hex Hd. bolts and 1/2" lockwashers. The nuts are pre-welded inside the housing.

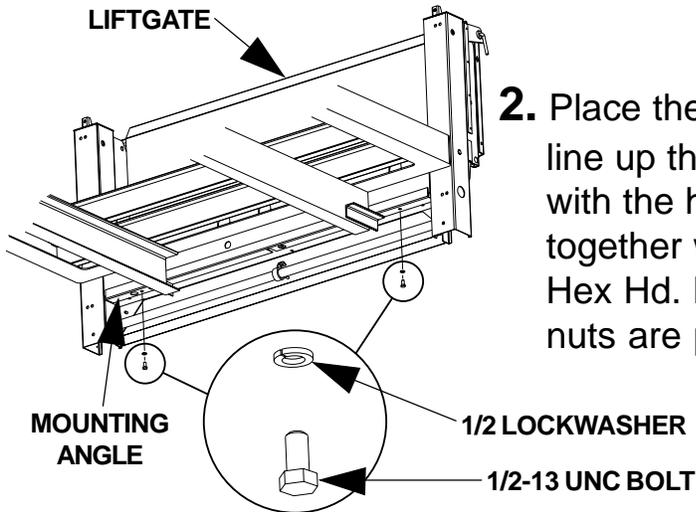
3. Place the Gusset Support Brace against the vertical surface of the Liftgate and the vehicle bed. Weld both sides of the Gusset Support Brace with a 1/4" weld x 4" long. Repeat for other side of the Liftgate.



4. Drill two (2) 1/2" Dia. holes through the vehicle floor, using the Gusset Support Brace as a template. Attach the Washer Plate beneath the vehicle floor by inserting two (2) 1/2-13 UNC x 2-1/2" long bolts through the top surface of the Gusset Support Brace, through the vehicle floor and Washer Plate, and secured by two (2) 1/2" lockwashers and 1/2-13 UNC nuts. Repeat for other side of the Liftgate.

VAN BODY (WELD-ON) INSTALLATION

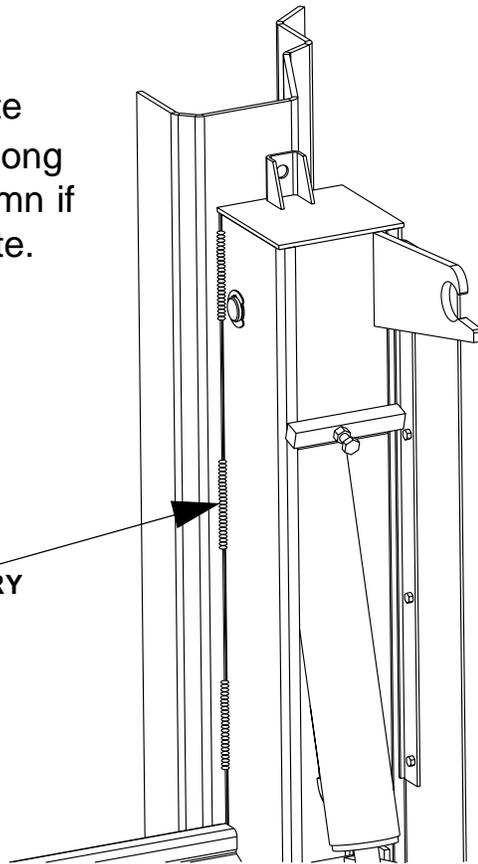
1. Before mounting Liftgate, see if any modification to the vehicle body is needed to access battery cable from the Main Frame Housing.



2. Place the Liftgate on the Mounting Angle and line up the holes on the bottom of the Liftgate with the holes on the Mounting Angle. Bolt together with two (2) 1/2-13 UNC x 1-1/4" Hex Hd. bolts and 1/2" lockwashers. The nuts are pre-welded inside the housing.

3. Position the vertical surface of the Liftgate against the vehicle body. Apply 1/4" x 3" long welds every 8" on both sides of the column if possible. Repeat for other side of Liftgate.

3" LONG WELDS EVERY
8" BOTH SIDES IF
POSSIBLE

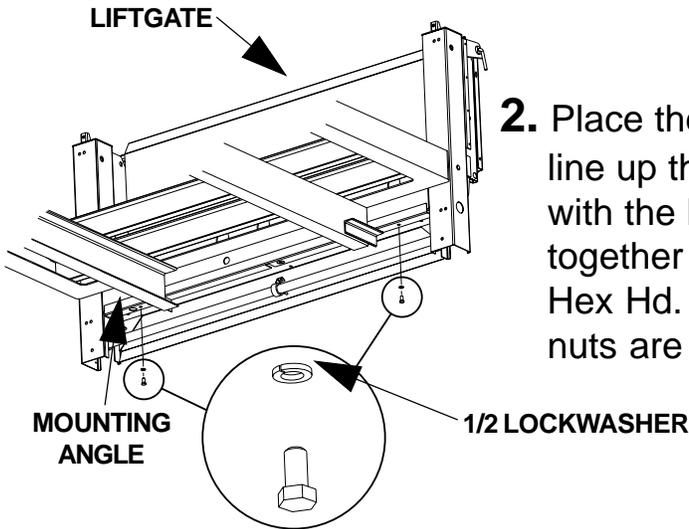


VAN BODY (BOLT-ON) INSTALLATION USING EXISTING MOUNTING TAB

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1. Before mounting Liftgate, see if any modification to the vehicle body is needed to access battery cable from the Main Frame Housing.

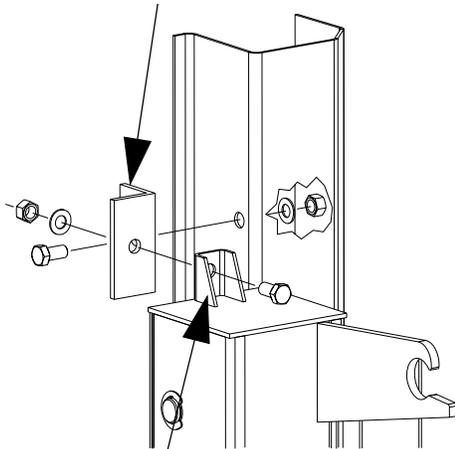
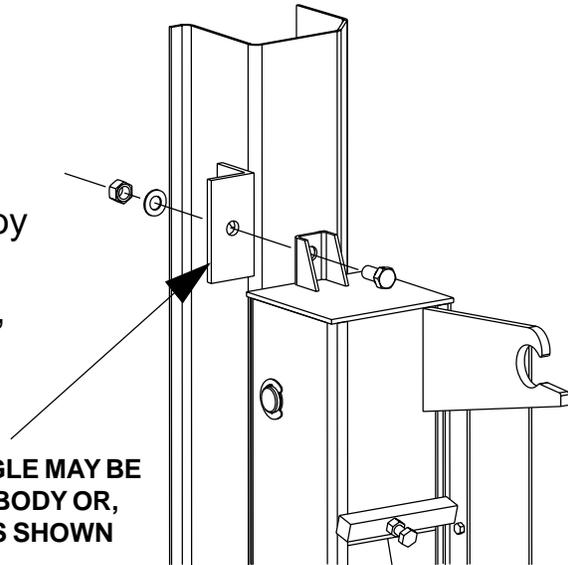


2. Place the Liftgate on the Mounting Angle and line up the holes on the bottom of the Liftgate with the holes on the Mounting Angle. Bolt together with two (2) 1/2-13 UNC x 1-1/4" Hex Hd. bolts and 1/2" lockwashers. The nuts are pre-welded inside the housing.

3. Fasten 2" x 2" x 3" at least 10GA thick mounting angle bracket (not supplied by Maxon) to the top Mounting Tab on the vertical column with a 1/2-13 UNC bolt, 1/2" lockwasher, and 1/2-13 UNC nut. Repeat for other side.

SUPPORT ANGLE MAY BE WELDED TO BODY OR, BOLTED AS SHOWN

SUPPORT ANGLE MAY BE BOLTED TO BODY OR, WELDED AS SHOWN

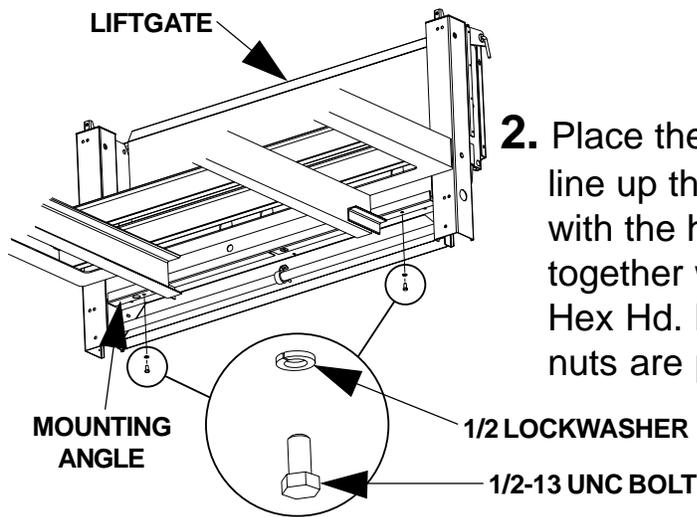


MOUNTING TAB

4. Use the mounting angle bracket as a template to drill a 1/2" Dia. hole into the van body door opening. Bolt together with 1/2-13 UNC x 1-1/4" Hex Hd. bolt, 1/2" lockwasher, and 1/2-13 UNC nut. (NOTE: As an option, the mounting angle bracket can be welded to the van body door opening.) Repeat for other side.

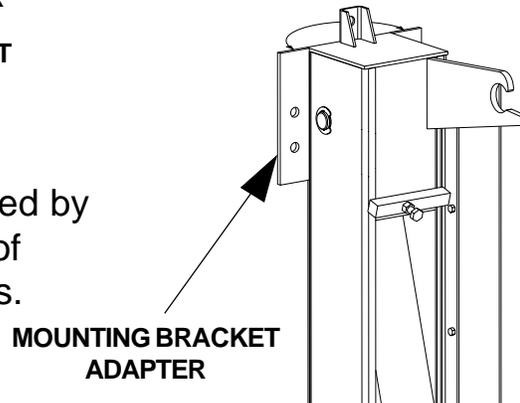
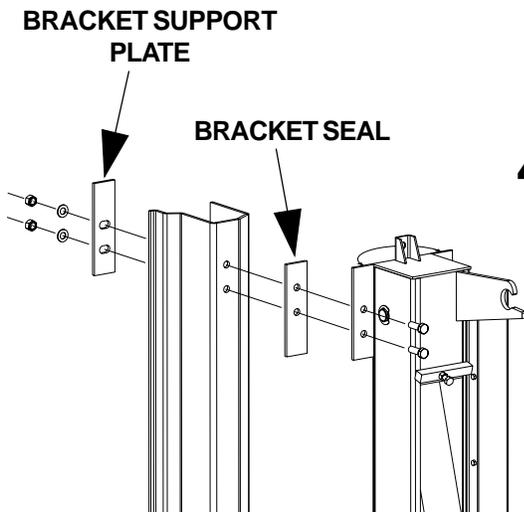
VAN BODY (BOLT-ON) INSTALLATION USING ADDITIONAL MOUNTING BRACKET ADAPTERS

1. Before mounting Liftgate, see if any modification to the vehicle body is needed to access battery cable from the Main Frame Housing.



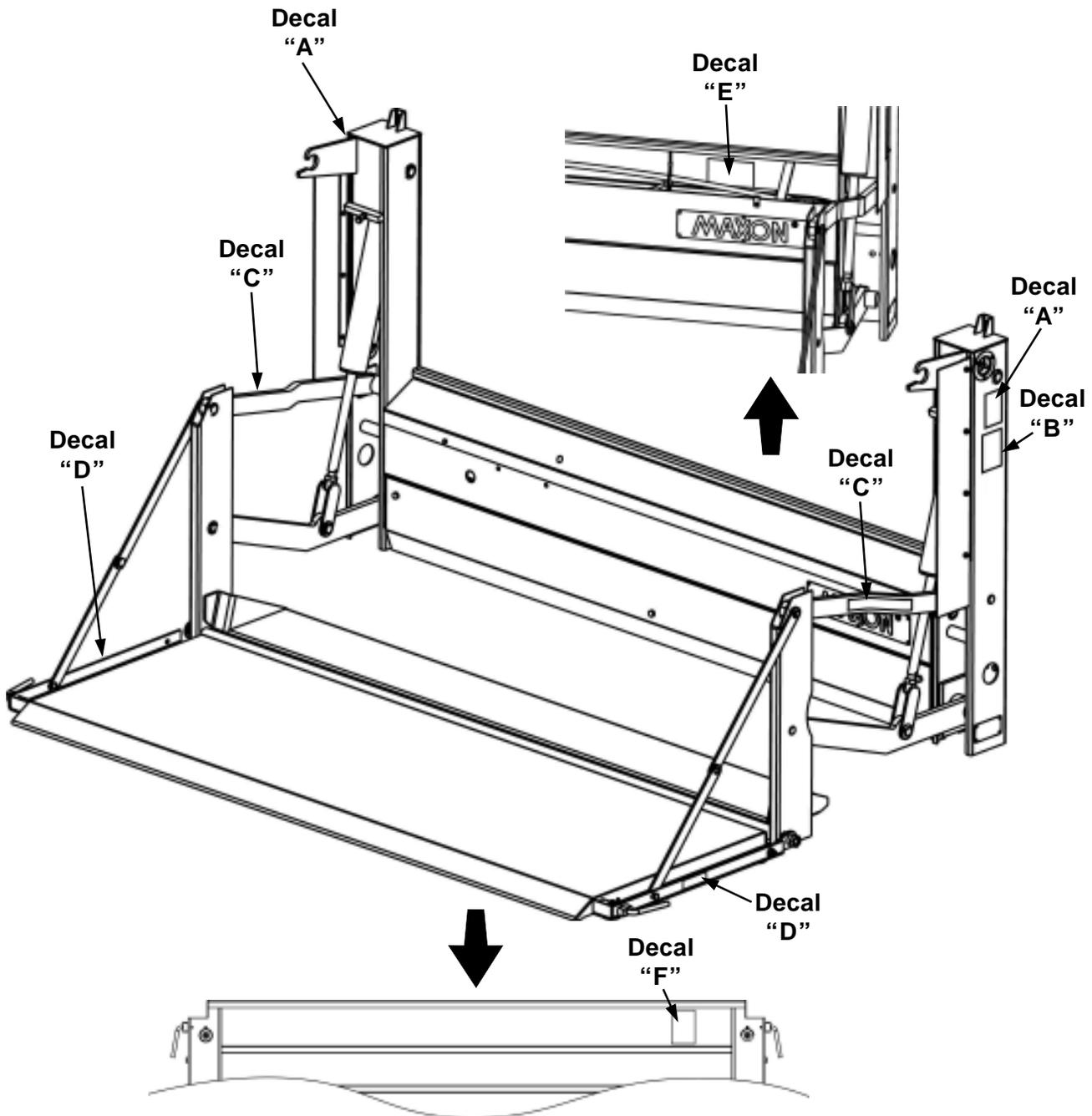
2. Place the Liftgate on the Mounting Angle and line up the holes on the bottom of the Liftgate with the holes on the Mounting Angle. Bolt together with two (2) 1/2-13 UNC x 1-1/4" Hex Hd. bolts and 1/2" lockwashers. The nuts are pre-welded inside the housing.

3. If necessary, weld a mounting bracket adapter at least 10GA thick (not supplied by Maxon) to either the inside or outside of each of the two (2) the vertical columns.



4. Drill two (2) 1/2" Dia. holes through the Van Body using the mounting bracket adapter as a template. Place a bracket seal (not supplied by Maxon) between the Liftgate and Van Body. Insert two (2) 1/2-13 UNC x 1-1/4" Hex Hd. bolts through the mounting bracket adapter, bracket seal, Van Body, and bracket support plate at least a 10GA thick (not supplied by Maxon). Fasten with two (2) 1/2" Lockwashers and 1/2-13 UNC nuts. Repeat for other side.

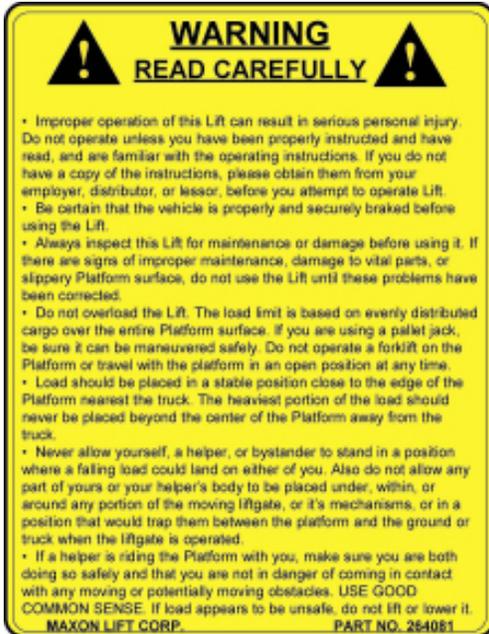
DECALS AND DECAL PLACEMENT



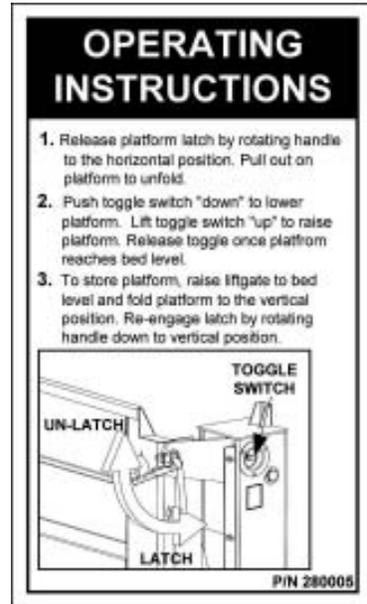
The Maxon liftgate must have all warning and caution decals attached in readable condition. If decals are defaced or missing, replace them. Free replacements are available from Maxon. Contact:

Maxon Lift Corp., Parts Department
11921 Slauson Ave., Santa Fe Springs, Ca.90670
Phone: (800) 227-4116
FAX: (888) 771-7713

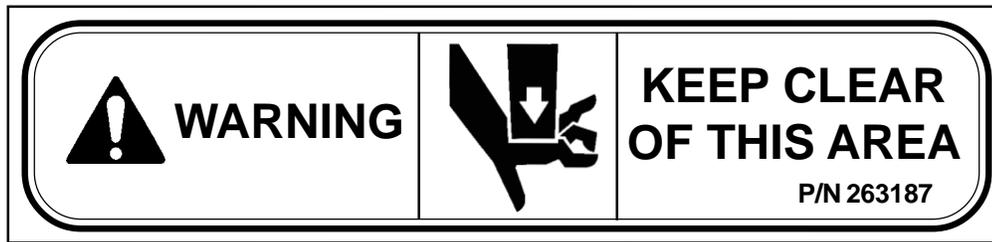
DECALS AND DECAL PLACEMENT



Decal "A" P/N 264081



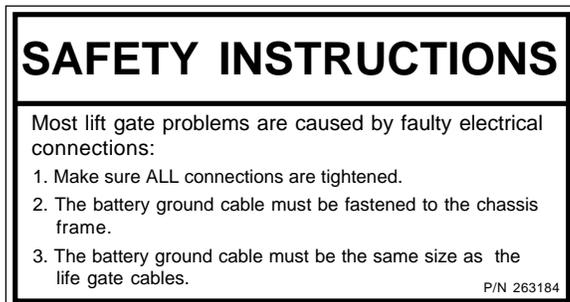
Decal "B" P/N 280005



Decal "C" P/N 263187



Decal "D" P/N 280006



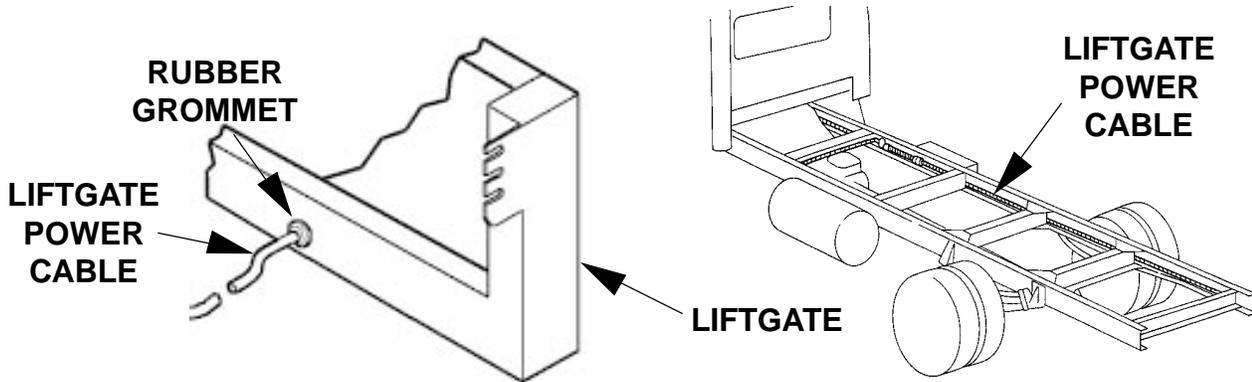
Decal "E" P/N 263184



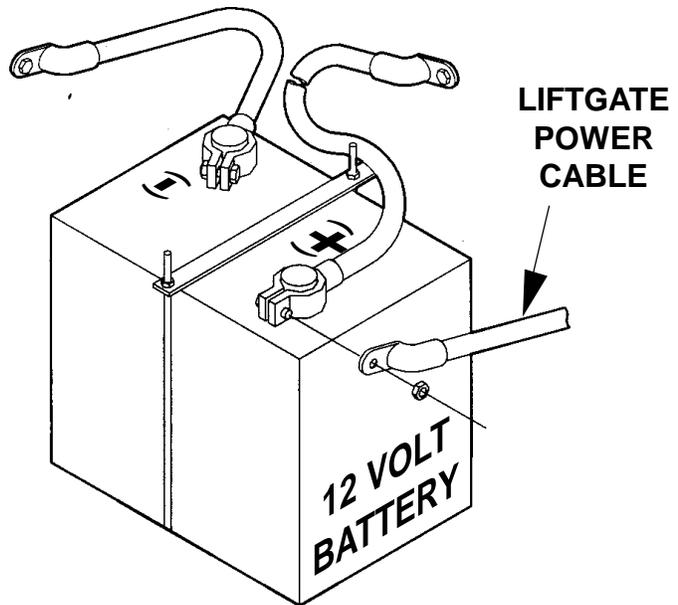
Decal "F" P/N 263188

BATTERY CABLE HOOK-UP

1. Carefully pull the end of the Power Cable through the Rubber Grommet in the back of the Main Housing Frame. Attach the length of the Power Cable to the truck frame with eight (8) 6-inch nylon ties. Be careful not to place the cable near the exhaust system, or against sharp edges that could damage the Cable, create the possibility of an electrical short, or cause a fire.



2. Connect the remaining end of the Power Cable to the POSITIVE (+) battery terminal. Be sure the NEGATIVE (-) battery terminal is grounded to the truck chassis to prevent damage to the motor solenoid.



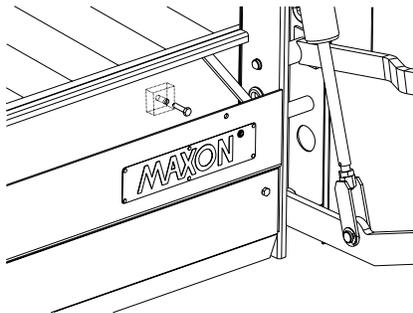
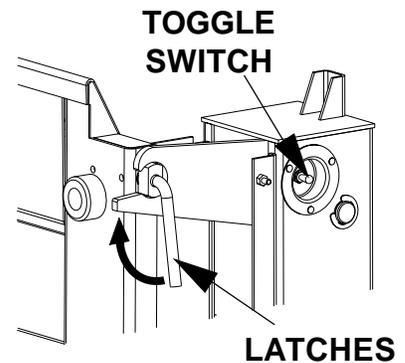
3. Lower the Platform to the ground using the operating instructions in the Operation Manual, or the Operating Decal on the side of the Liftgate.

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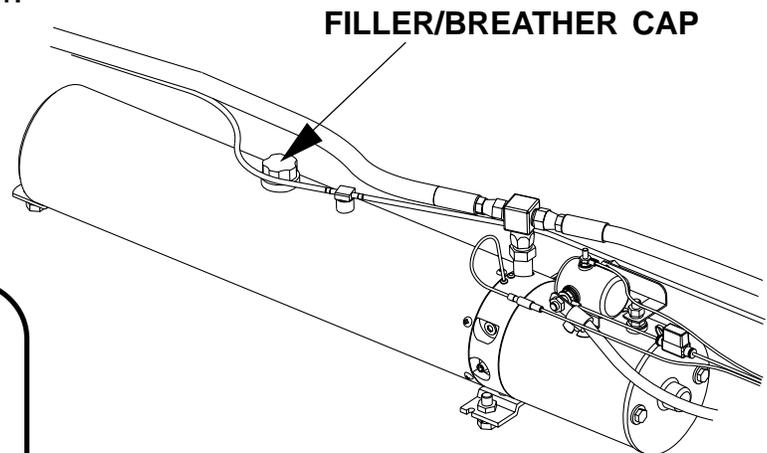
FINAL ADJUSTMENTS

1. Disengage both Platform Stow Latches and lower the platform to the ground by using the Toggle Switch on the curb side of the liftgate.



2. Remove the Main Housing Cover from the liftgate and drill three (3) 1/2" Dia. holes through the Main Housing and Van Body. (Drill through the center and close to both sides.) Bolt together with 1/2-13 UNC x 1-1/4" Hex Hd. bolt, 1/2" lockwasher, 1/2" flatwasher, and 1/2-13 UNC nut.

3. Fill the Hydraulic Reservoir on the pump with the proper hydraulic fluid to approximately 1/4" below the top of the reservoir.



OIL SPECIFICATIONS:

Grade ISO-(32)

Gravity, API - 29.5 Degrees
Pour Point, F- (-54 Degrees)

VISCOSITY:

@ 40 Degrees C - 31.2 cSt

@ 100 Degrees C - 6.2 cSt

VISCOSITY INDEX - 154 VI

Flash Point, F - 325 Degrees