

To find maintenance & parts information for your BMR-CS Liftgate, go to www.maxonlift.com. Click the PRODUCTS, COLUMNLIFT & BMR-CS buttons. Open the Maintenance Manual in the PRODUCT DOCUMENTATION window.

## BMR-CS INSTALLATION MANUAL

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

- 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.
- Remove all rings, watches and jewelry before doing any electrical work.
- 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. 4-1). To minimize hazard remove galvanizing from weld area, provide adequate ventilation, and wear suitable respirator.

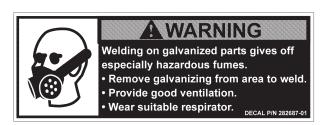


FIG. 4-1

## 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 or children 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.

## VEHICLE REQUIREMENTS

NOTE: Installer is responsible for ensuring vehicle meets Federal, State, and Local standards and regulations.

## **BODY STRENGTH**

## **A WARNING**

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

NOTE: Maximum operating bed height for body is 56" (Unloaded). Minimum bed height is platform width plus 5" (Loaded). Do not install this Liftgate on vehicle bodies equipped with swing open doors.

The BMR-CS is a body-mounted Liftgate that puts forces on the side walls of truck and trailer bodies (FIG. 6-1). For correct installation, truck and trailer bodies must be strong enough to withstand the tension, compression and shear forces shown in FIG. 6-1. Use TABLES 7-1, 7-2 and 7-3 on the following page to determine the forces that apply to the type of platform, size of platform, and load capacity of your Liftgate.

X= Tension on each sidewall

Y= Compression on each sidewall

Z= Shear on each sidewall

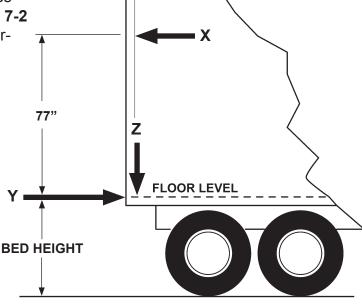


FIG. 6-1

## **VEHICLE REQUIREMENTS - Continued BODY STRENGTH - Continued**

MODEL CAPACITY	P/F SIZE	(X)(Y) LBS.	(Z) LBS.
BMR-CS35 3500 LBS. (GALVANIZED PLATFORM)	36" & 42"	1043	3786
BMR-CS44 4400 LBS. (GLAVANIZED PLATFORM)	36" & 42"	1262	4461

## **TABLE 7-1**

MODEL CAPACITY	P/F SIZE	(X)(Y) LBS.	(Z) LBS.
BMR-CS35 3500 LBS. (ALUMINUM PLATFORM)	36" & 42"	964	3510
BMR-CS44 4400 LBS. (ALUMINUM PLATFORM)	36" & 42"	1183	4185

## **TABLE 7-2**

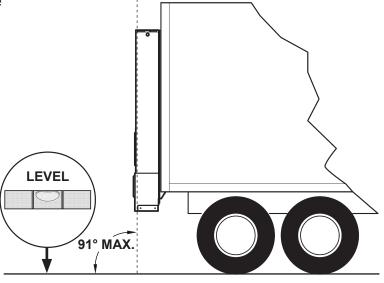
MODEL CAPACITY	P/F SIZE	(X)(Y) LBS.	(Z) LBS.
BMR-CS35 3500 LBS. (ALUMINUM PLATFORM- KNURLED)	36" & 42"	964	3510
BMR-CS35 4400 LBS. (ALUMINUM PLATFORM- KNURLED)	36" & 42"	1183	4185

**TABLE 7-3** 

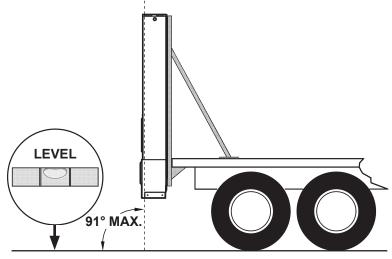
## **VEHICLE REQUIREMENTS - Continued INSTALLED LIFTGATE**

**NOTE:** If Liftgate columns exceed a 91 degree angle from level ground when installed on body, or if columns cannot be mounted flush against rear of vehicle, a steel filler may be used to bridge gap between vehicle body and Liftgate columns. Make sure the added materials and welds meet the BODY STRENGTH requirements shown on the previous pages.

With the vehicle parked on level ground, the columns of the BMR-CS must be perpendicular to the ground (vertical) for the Liftgate to operate correctly (FIGS. 8-1 and 8-2).

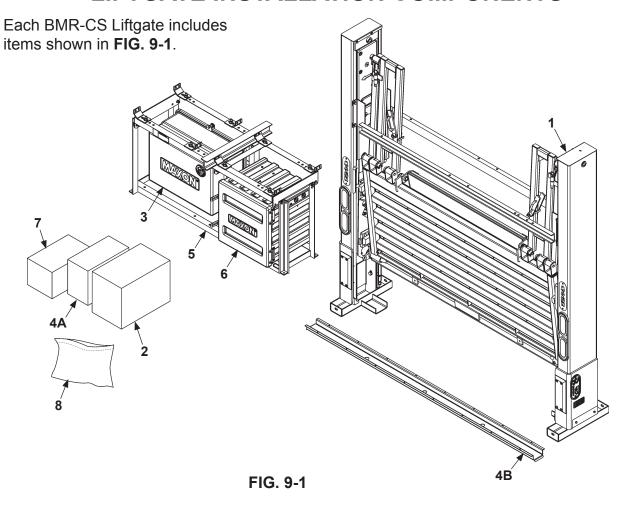


LIFTGATE INSTALLED ON VAN BODY (COLUMNS SHOWN PERPENDICULAR TO LEVEL GROUND) FIG. 8-1



LIFTGATE INSTALLED ON FLAT BED (COLUMNS & SUP-PORTS SHOWN PERPENDICULAR TO LEVEL GROUND) FIG. 8-2

## LIFTGATE INSTALLATION COMPONENTS



	DESCRIPTION
1	BMR-CS Liftgate.
2	Hardware parts bag, mounting bracket parts bag, hydraulic lines & fittings, wiring harness, power cable, molded switch control box.
3	Pump box assembly.
4A	Pump installation kit (3', 10', 15', or 20').
4B	Channel guard (for 10', 15', or 20' installation kits only)
5	Frame for pump box with optional battery box is shown. A shorter frame is also available for mounting single pump box or an optional battery box.
6	Battery box (optional)
7	Optional equipment
8	Instruction manuals and decals

**TABLE 9-1** 

## **COMPONENTS**

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

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

BMR-CS MODEL	EXTENSION PLATE, STAINLESS STEEL	EXTENSION PLATE, GALVANIZED	MANUAL & DECAL KIT
BMR-CS35	288790-151 (96" WIDE VEHICLE)	288790-51G (96" WIDE VEHICLE)	288878-35
BMR-CS44	286215-161 (102" WIDE VEHICLE)	288790-61G (102" WIDE VEHICLE)	288878-44

## **TABLE 10-1**

BMR-CS MODEL	PART BOX	3 FT PUMP BOX INSTALL KIT	10 FT PUMP BOX INSTALL KIT	15 FT PUMP BOX INSTALL KIT	20 FT PUMP BOX INSTALL KIT
BMR-CS35 PD	288877-02	288880-11	288880-12	288880-13	288880-14
BMR-CS44 PD	2000/7-02	200000-11	200000-12	200000-13	200000-14

BMR-CS MODEL	PART BOX	3 FT PUMP BOX INSTALL KIT	10 FT PUMP BOX INSTALL KIT	15 FT PUMP BOX INSTALL KIT	20 FT PUMP BOX INSTALL KIT
BMR-CS35 GD	288877-01	288880-01	288880-02	288880-03	288880-04
BMR-CS44 GD	2000//-01	200000-01	200000-02	200000-03	200000-04

**TABLE 10-2** 



## **COMPONENTS - Continued**

				OPTION	s		
BMR-CS MODEL	SINGLE PUMP ASSY	SECOND PUMP KIT	FRAME, PUMP OR BATTERY BOXES	CYCLE COUNTER	HEADER KIT (ADJUSTABLE)	HEADER KIT (RECESSED DOME LAMP)	DOME LAMP RECESSED - MOUNT
BMR-CS35 PD BMR-CS44 PD	287660-12	287675-01	288180-11G SINGLE FRAME (GALVANIZED) 287980-11G DUAL FRAME 2 BATT BOX (GALVANIZED) 288810-11G DUAL FRAME 3 BATT BOX (GALVANIZED	289537-01	289190-02 (GALVANIZED)	289188-11 (GALV, 96" WIDE VEHICLE) 289188-12 (GALV,102" WIDE VEHICLE)	906589-01-100

				OPTION	s		
BMR-CS MODEL	SINGLE PUMP ASSY	SECOND PUMP KIT	FRAME, PUMP OR BATTERY BOXES	CYCLE COUNTER	HEADER KIT (ADJUSTABLE)	HEADER KIT (RECESSED DOME LAMP)	DOME LAMP RECESSED - MOUNT
BMR-CS35 GD BMR-CS44 GD	287670-12	287675-01	288180-11G SINGLE FRAME (GALVANIZED) 287980-11G DUAL FRAME 2 BATT BOX (GALVANIZED) 288810-11G DUAL FRAME 3 BATT BOX (GALVANIZED	289537-01	289190-02 (GALVANIZED)	289188-11 (GALV, 96" WIDE VEHICLE) 289188-12 (GALV,102" WIDE VEHICLE)	906589-01-100

**TABLE 11-1** 

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## **COMPONENTS - Continued**

		OPTIONS								
BMR-CS MODEL	BATTERY BOX ASSEMBLY (2 BATTERY)	BATTERY BOX ASSEMBLY (2 BATTERY - DC/DC CON- VERTER)	BATTERY BOX ASSEMBLY (3 BATTERY)	BATTERY BOX ASSEMBLY (3 BATTERY - DC/DC CON- VERTER)	BATTERY 12V HD	BATTERY BOX MOUNTING FRAME (BOLT-ON - 2 BATTERY)	BATTERY BOX MOUNTING FRAME (BOLT-ON - 3 BATTERY)	AUXILIARY CONTROL	HAND HELD CONTROL	
BMR-CS35 PD	269560-01	289988-01	269950-01	289988-02	267318-01	287990-01G	287929-01G	289850-12	289840-01	
BMR-CS44 PD	200000 01	200000 01	200000 01	200000 02	207010 01	207000 010	20/020 010	200000 12	200040 01	
BMR-CS35 GD	000500 04	22222	000050 04	22222	007040.04	007000 040	207200 010	000050 44	000040.04	
BMR-CS44 GD	269560-01	289988-01	269950-01	289988-02	267318-01	287990-01G	287929-01G	289850-11	289840-01	

## **TABLE 12-1**

	CHARGE LINE OPTIONS							
BMR-CS MODEL	SINGLE POLE TRACTOR KIT	DUAL POLE TRACTOR KIT	SINGLE POLE TRAILER CHARGE LINE	DUAL POLE TRAILER CHARGE LINE	ADAPT DUAL & SINGLE POLE TRACTOR KIT	TRAILER SINGLE/DUAL POLE W/NOSE BOX KIT	TRAILER DUAL POLE SOCKET W/NOSE BOX KIT	
BMR-CS35	200275 02	200275.04	200275 04	200275 02	280275-05	200275.00	200275.00	
BMR-CS44	280275-03	275-03 280275-04 2	280275-01 280275-02	260275-05	280275-06	280275-08		

## **TABLE 12-2**

	CHARGE LINE OPTIONS			
BMR-CS MODEL	TRUCK CHARGE LINE KIT - BMRA	2/0 AWG CABLE TRUCK CHARGE LINE - BMRA/ BMRSD		
BMR-CS35	280290	285860-01		
BMR-CS-44	200290	265660-01		

## **TABLE 12-3**

		DIRECT & SELECT CHARGING OPTIONS							
BMR-CS MODEL	DIRECT W/ DUAL POLE CONNEC- TION	DIRECT W/ DUAL POLE COMBO CONNEC- TION	DIRECT W/7-WAY- CONNEC- TION	DIRECT REEFER OR STRAIGHT TRUCK	SELECT W/ REEFER & DUAL POLE CONNEC- TION	SELECT W/ DUAL POLE & W/7-WAY CON- NECTION	SELECT W/ DUAL COMBO & W/7-WAY CONNECTION	SELECT W/ DUAL POLE COMBO, REEFER & W/7-WAY CONNECTION	SELECT/ DIRECT BYPASS KIT
BMR-CS35	295219-01	295220-01	295211-01	295972-01	295210-01	295217-01	295218-01	296170-01	295221-01
BMR-CS-44	295219-01	295220-01	290211-01	293972-01	290210-01	295217-01	290218-01	290170-01	295221-01

## **TABLE 12-4**

	MISCELLANEOUS OPTIONS					
BMR-CS	TRAILER BATTERY INDICATOR	NON-SKID COATING	HYDRAULIC OIL UNIVIS HV1-13	BATTERY BOX MANUAL HOLDER KIT		
BMR-CS35	000474 04 400	281531-100	284098-01	286328-01		
BMR-CS-44	908171-01-100	201031-100		200328-01		

## **TABLE 12-5**

## MAXON

## STEP 1 - PREPARE VEHICLE IF REQUIRED

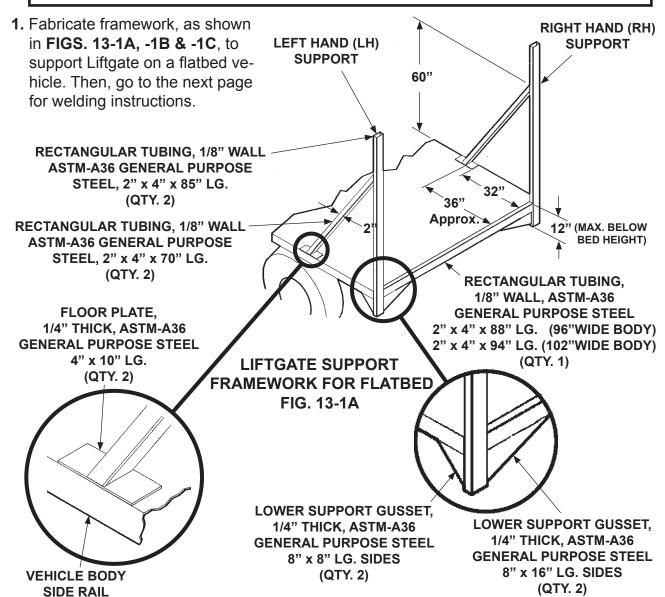
NOTE: Perform the following step for flatbed vehicle body only. If vehicle body is not a flatbed, skip this step.

**NOTE:** LH and RH supports must be perpendicular to level ground. **See VEHICLE REQUIREMENTS, INSTALLED LIFTGATE.** 

**NOTE:** Materials for support framework are not provided with Liftgate.

## **A WARNING**

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

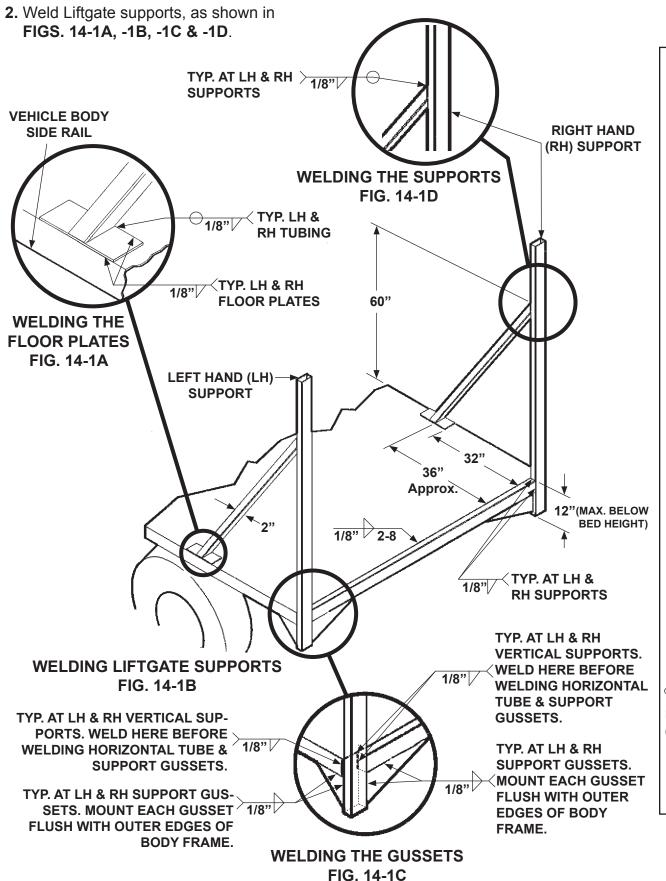


POSITIONING FLOOR PLATE FIG. 13-1B

POSITIONING GUSSETS FIG. 13-1C

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

## STEP 1 - PREPARE VEHICLE IF REQUIRED - Continued



## STEP 2 - POSITION LIFTGATE WELD LIFTGATE TO BODY

## **A WARNING**

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

**NOTE:** Before welding extension plate to vehicle body, make sure:

- Inboard edge of extension plate is flush with the top of sill on vehicle body.
- Top surface of extension plate is level with the ground.

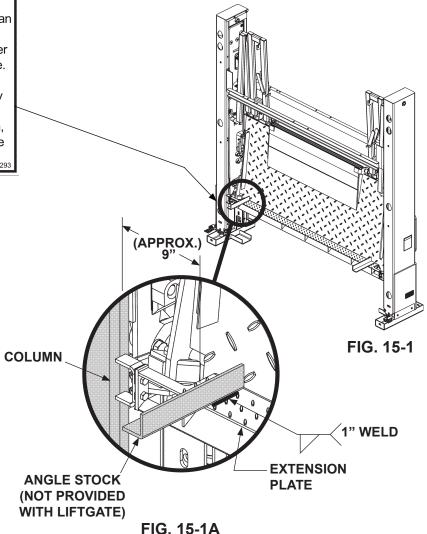
## CAUTION

Comply with welding CAUTION decals on the LH & RH runners.

## **CAUTION**

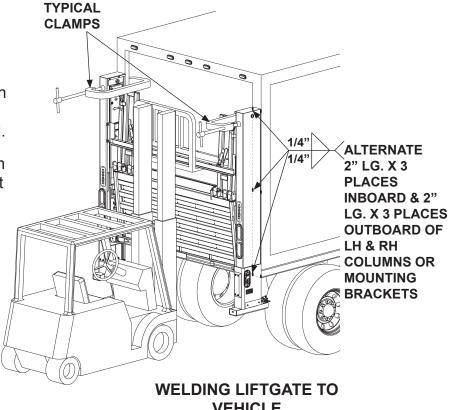
Electrical components and metal parts on this liftgate can be severly damaged by connecting an electric welder to liftgate at the wrong place. To prevent damage, always connect ground lead directly to the component being welded (e.g. runner, column, platform) and as close to the weld as possible.

1. Weld 2 pieces of 10" X 2" angle stock to the top surface of the extension plate near the LH column as shown in FIGS, 15-1 and 15-1A. Repeat for RH column. The angle stock helps keep extension plate flush with top of vehicle bed while installing Liftgate.



## **STEP 2 - POSITION LIFTGATE - Continued WELD LIFTGATE TO BODY - Continued**

- 2. Use overhead hoist or forklift to center Liftgate against the vehicle (FIG. 16-1). Let angle stock, welded to extension plate, rest on the top surface of the vehicle bed.
- 3. Clamp top of each column to vehicle body to prevent gap (FIG. 16-1).



**VEHICLE** FIG. 16-1

- 4. Weld the RH and LH columns to vehicle body as shown in FIG. 16-1.
- 5. Remove clamp from each of the columns. Then, move forklift away from work area.

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LOCK WASHER, 1/2"

## STEP 3 - REMOVE UPPER AND LOWER SUPPORT **FIXTURES**

NOTE: Use short wrenches for unbolting lower support fixtures.

1. Unbolt and remove lower support fixture from LH column (FIG. 17-1). Repeat for lower support fixture on RH column (FIG. 17-1). **RH LOWER SUPPORT FIXTURE** CAP SCREW, 1/2"-13 X 1-1/2" LG. OCK WASHER, 1/2" LH LOWER SUPPORT FIXTURE **HEX SCREW.** 5/8"-11 X 1-3/4" LG. FLAT WASHER, 1/2" **LOCK NUT, 1/2"-13** HEX SCREW, 5/8"-11 X 1-3/4" LG.

> REMOVING LOWER SUPPORT FIXTURES FIG. 17-1

## STEP 3 - REMOVE UPPER AND LOWER SUPPORT **FIXTURES - Continued**

Upper support fixtures are heavy. To prevent injury to installer and damage to Liftgate, use forklift or hoist to hold support fixtures during removal.

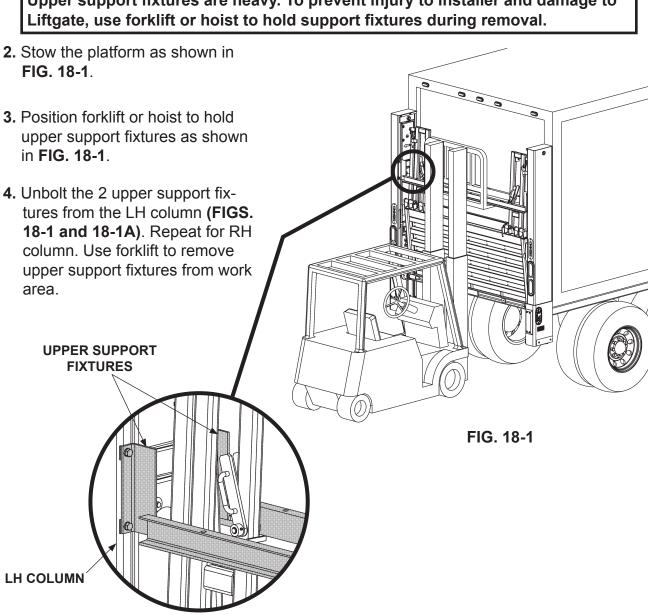
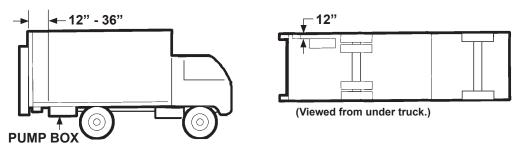


FIG. 18-1A

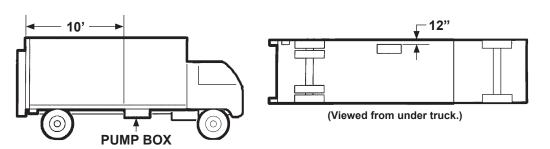
## STEP 4 - POSITION PUMP BOX FRAME

NOTE: Make sure pump box is closer to Liftgate than battery box (if installed) and pump box cover opens toward curb-side of vehicle. Also, make sure hydraulic hoses are installed without straining hoses. Distance from pump box to Liftgate is limited by lengths of hydraulic hoses and wiring harness supplied with Liftgate.

Position pump box frame (or optional battery box) on the ground where it will be welded to vehicle body in the next step. Make sure pump box (and battery box if supplied) are securely bolted to the frame. Typical installations are shown in FIGS. 19-1, 19-2, 20-1, and 20-2.

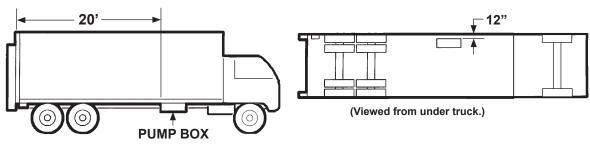


**TYPICAL 3 FT. INSTALLATION** FIG. 19-1

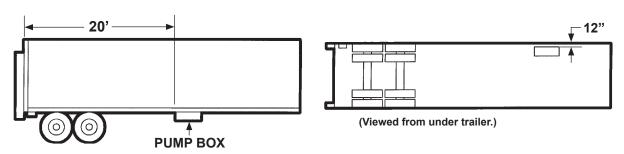


**TYPICAL 10 FT. INSTALLATION** FIG. 19-2

## STEP 4 - POSITION PUMP BOX FRAME - Continued



TYPICAL 20 FT. INSTALLATION FIG. 20-1



TYPICAL 20 FT. INSTALLATION FIG. 20-2

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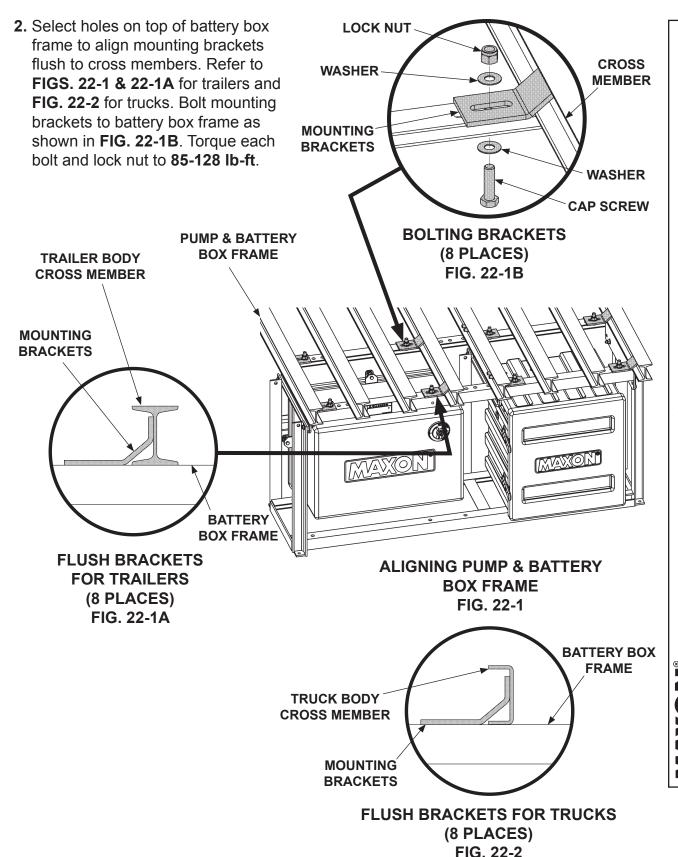
## STEP 5 - ATTACH PUMP & BATTERY BOX FRAME TO VEHICLE

1. Use floor jack or equivalent lifting device to place pump and battery box frame in position on vehicle body cross members as shown in FIG. 21-1. **VEHICLE BODY CROSS MEMBERS PUMP & BATTERY BOX FRAME** 

TRAILER WITH PUMP & BATTERY BOX FRAME FIG. 21-1

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## STEP 5 - ATTACH PUMP & BATTERY BOX FRAME TO VEHICLE - Continued

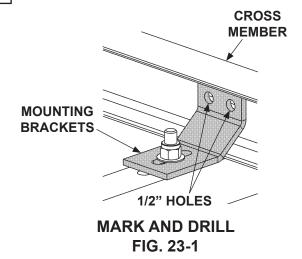


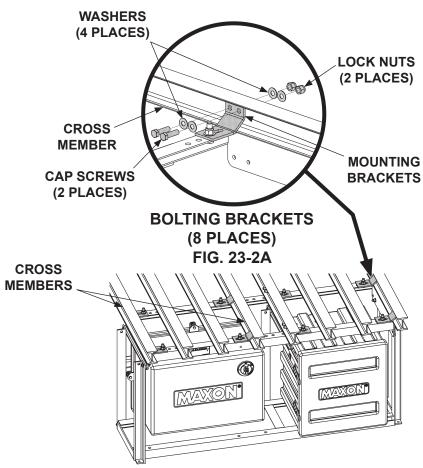
## 90670 (800) 227-4116 FAX (888) 771-7713 CA. Santa Fe Springs, 11921 Slauson Ave.

## STEP 5 - ATTACH PUMP & BATTERY BOX FRAME TO VEHICLE - Continued

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

Using mounting brackets as a template mark and drill holes through cross members (FIG. 23-1). Bolt mounting brackets to cross members as shown in FIGS. 23-2 and 23-2A. Torque bolts and lock nuts to 85-128 lb-ft.





BOLTING PUMP & BATTERY BOX FRAME FIG. 23-2

## STEP 5 - ATTACH PUMP & BATTERY BOX FRAME TO **VEHICLE - Continued**

## **A WARNING**

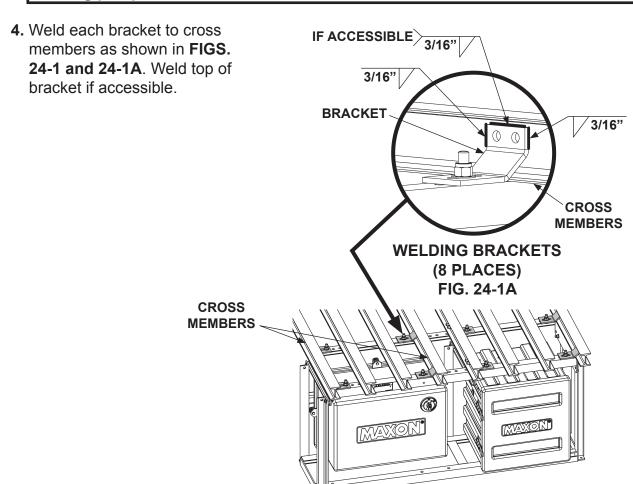
Recommended practices for welding on steel parts are contained in the current AWS (American Welding Society) D1.1 Structural Welding Code - Steel. Damage to Liftgate and/or vehicle, and personal injury can result from welds that are done incorrectly.

## **CAUTION**

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

## **CAUTION**

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

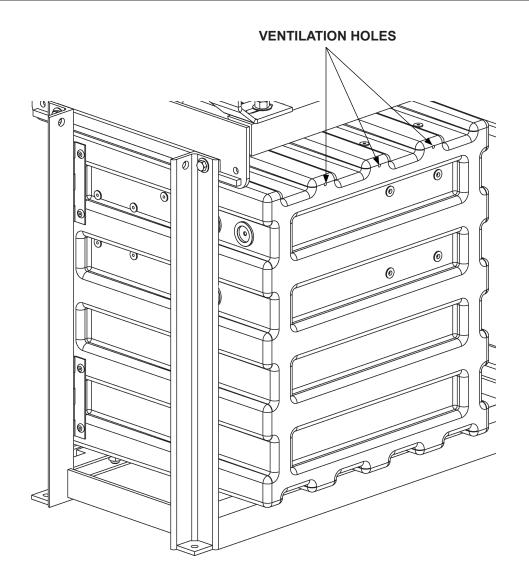


**BOLTING PUMP & BATTERY BOX FRAME** FIG. 24-1

## STEP 5 - ATTACH PUMP & BATTERY BOX FRAME TO **VEHICLE - Continued**

## **A WARNING**

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



**BATTERY BOX ASSEMBLY** (REAR VIEW SHOWN) FIG. 25-1

## STEP 6 - RUN HYDRAULIC LINES & ELECTRIC CABLES

## **A** CAUTION

Always route hydraulic hoses and electrical wiring clear of moving parts, brake lines, sharp edges and exhaust systems. Avoid making sharp bends in hoses and wiring. Make sure that bends in the electrical wiring are 1" or more away from electrical connector. 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.

**NOTE:** The hydraulic cylinders in the Liftgate are filled with hydraulic fluid and bled at the factory. To keep air out of the hydraulic system, follow instructions carefully for installing hydraulic system components.

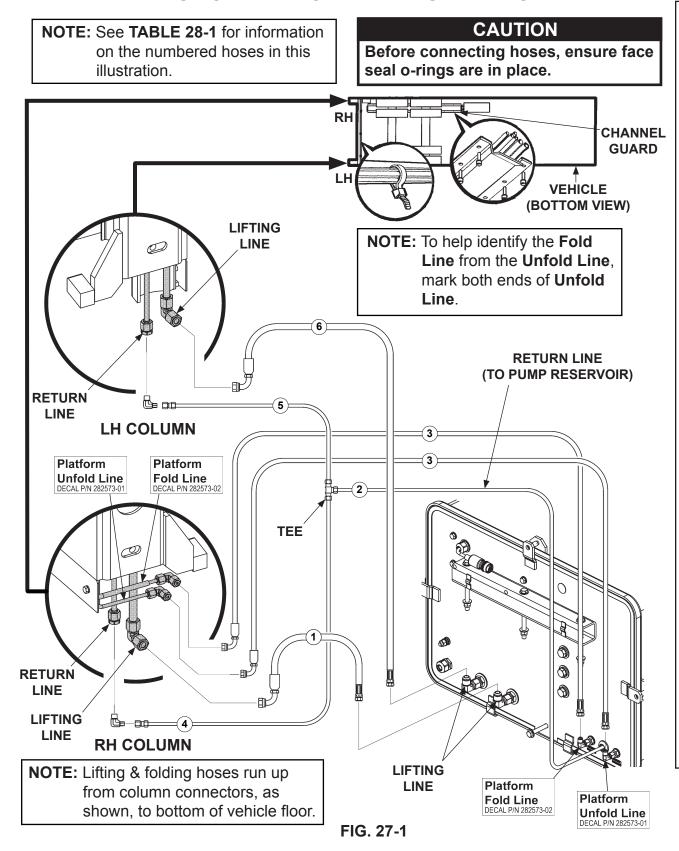
**NOTE:** The fold and unfold hydraulic hoses are the same. To avoid confusion when running hoses through the channel, MAXON recommends taping both ends of one of the hoses for easy identification.

- 1. Get hydraulic hoses, hydraulic tee, channel guard (if required) and plastic ties from parts box and pump box installation kit. Run hydraulic hoses from LH and RH columns to pump box. Connect hydraulic hoses as shown in FIG. 27-1 and TABLE 28-1 for Gravity Down Liftgate or FIG. 29-1 and TABLE 30-1 for Power Down Liftgate.
- 2. Get molded extension cable from pump box installation kit. Run the molded extension cable from RH column to pump box as shown in FIG. 31-1.
- 3. If channel guard is required, bolt up one side of the channel (FIGS. 27-1, 29-1 and 31-1) to vehicle body. Leave bolts loose until all hydraulic hoses (FIGS. 27-1 and 29-1) and wiring harness (FIG. 31-1) are run through channel. After hoses and wiring harness are run, bolt up second side of channel and tighten all bolts and nuts. Use plastic ties to secure runs of hydraulic hoses and wiring harness that are outside of channel guard.

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## STEP 6 - RUN HYDRAULIC LINES & ELECTRIC CABLES - Continued

## **RUN GRAVITY DOWN HYDRAULIC LINES**



## STEP 6 - RUN HYDRAULIC LINES & ELECTRIC CABLES - Continued RUN GRAVITY DOWN HYDRAULIC LINES

GRAVITY DOWN PUMP BOX INSTALLATION: REQUIRED HOSES & PLASTIC TUBING							
	3 FT.	3 FT. 10 FT.		20 FT.			
1	HP 3/8" X 64" LG.	HP 3/8" X 196" LG.	HP 3/8" X 256" LG.	HP 3/8" X 316" LG.			
2	HP 3/8" X 64" LG.	PLASTIC 3/8" OD X 192" LG.	PLASTIC 3/8" OD X 192" LG.	PLASTIC 3/8" OD X 324" LG.			
3	HP 1/4" X 56" LG.	HP 1/4" X 188" LG.	HP 1/4" X 248" LG.	HP 1/4" X 308" LG			
4	PLASTIC 3/8" OD X 24" LG.						
5	PLASTIC 3/8" OD X 108" LG.						
6	HP 3/8" X 142" LG.	HP 3/8" X 274" LG.	HP 3/8" X 334" LG.	HP 3/8" X 394" LG.			

**TABLE 28-1** 

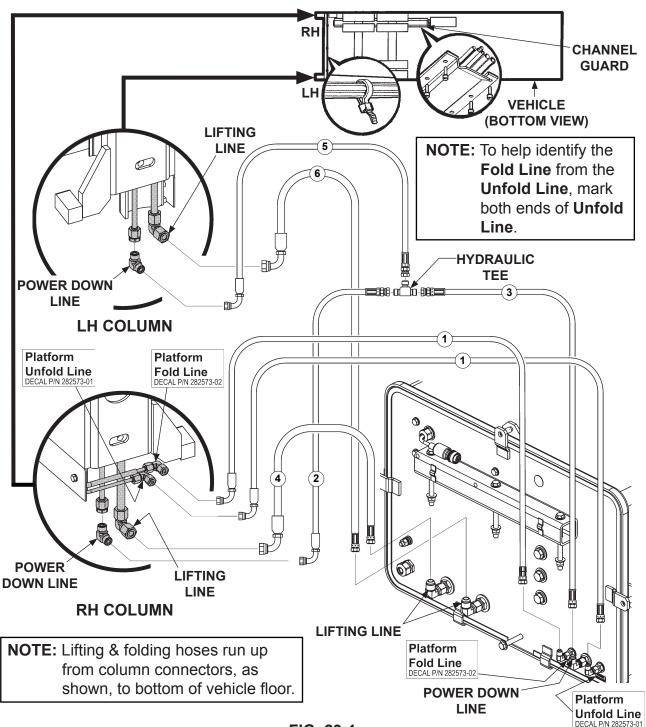
## STEP 6 - RUN HYDRAULIC LINES & ELECTRIC CABLES - Continued

## **RUN POWER DOWN HYDRAULIC LINES**

**NOTE:** See **TABLE 30-1** for information on the numbered hoses in this illustration.

## **CAUTION**

Before connecting hoses, ensure face seal o-rings are in place.



## STEP 7 - RUN HYDRAULIC LINES & ELECTRIC CABLES - Continued

## **RUN HYDRAULIC LINES**

	POWER DOWN PUMP BOX INSTALLATION: REQUIRED HOSES							
	3 FT.	10 FT.	15 FT.	20 FT.				
1	HP 1/4" X 56" LG.	HP 1/4" X 188" LG.	HP 1/4" X 248" LG.	HP 1/4" X 308" LG.				
2	HP 1/4" X 24" LG.							
3	HP 1/4" X 34" LG.	HP 1/4" X 166" LG.	HP 1/4" X 226" LG.	HP 1/4" X 286" LG.				
4	HP 3/8" X 64" LG.	HP 3/8" X 196" LG.	HP 3/8" X 256" LG.	HP 3/8" X 316" LG.				
5	HP 1/4" X 100" LG.							
6	HP 3/8" X 142" LG.	HP 3/8" X 274" LG.	HP 3/8" X 334" LG.	HP 3/8" X 394" LG.				

**TABLE 30-1** 

## Santa Fe Springs, CA. **LAXON** 11921 Slauson Ave.

## STEP 6 - RUN HYDRAULIC LINES & ELECTRIC CABLES - Continued

## **RUN ELECTRIC CABLES**

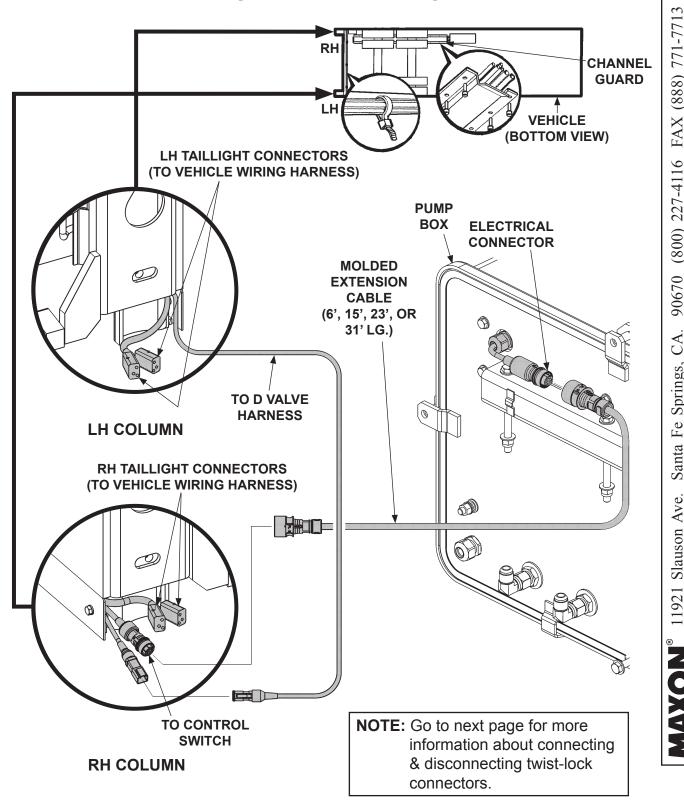


FIG. 31-1

# Santa Fe Springs, CA. 11921 Slauson Ave.

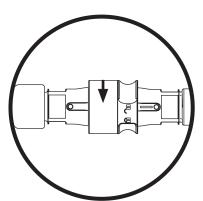
## STEP 6 - RUN HYDRAULIC LINES & ELECTRIC CABLES - Continued

## WIRING HARNESS TWIST-LOCK CONNECTORS

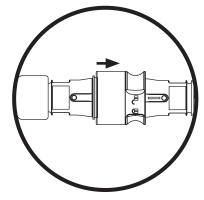
## **CAUTION**

Before connecting, ensure connectors are clean inside. Ensure there is a thin coating of dielectric grease on face of receptacle, and there is no dielectric grease on connector contacts.

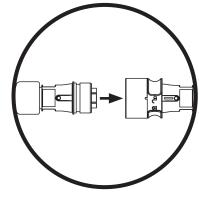
Refer to illustrations below for disconnecting, checking for dielectric grease, and reconnecting twist-lock style connectors.



TWIST COUPLING RING TO UNLOCK FIG. 32-1

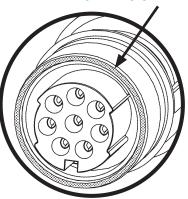


**PULL COUPLING RING** TO DISENGAGE FIG. 32-2

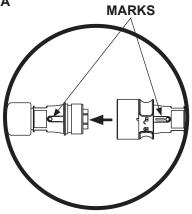


**PULL CONNECTORS** TO DISCONNECT FIG. 32-3



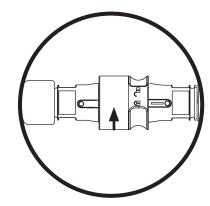


**DIELECTRIC GREASE** ON RECEPTACLE FIG. 32-4



**ALIGN** 

**ALIGN & CONNECT** FIG. 32-5



TWIST TO LOCK FIG. 32-6

## STEP 7 - CONNECT GROUND CABLE

## **GROUNDING TO TRUCK FRAME**

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

1. Bolt ground cable to the ground stud on pump box (FIG. 33-1).

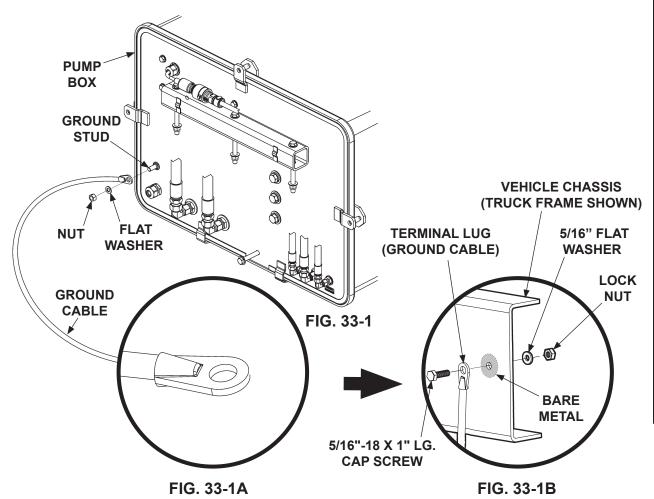
**NOTE:** If there is an existing grounding point on truck frame, use it to connect ground cable and skip the step for drilling a hole.

- **2.** Extend the ground cable to reach vehicle frame **(FIG. 33-1B)** without putting tension on cable (after connection). Connect to an existing grounding point if available.
- **3.** If necessary, drill a 11/32" (0.343") hole in vehicle frame for bolting the ground cable terminal lug **(FIG. 33-1B)**.

**NOTE:** Clean the ground cable connection point on the frame down to bare metal.

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

**4.** Bolt the ground cable terminal lug to vehicle frame as shown in **FIG. 33-1B**.



## STEP 7 - CONNECT GROUND CABLE - Continued

## **GROUNDING TO BATTERY BOX (IF EQUIPPED)**

NOTE: Make sure the Liftgate power unit, battery box and batteries, taillights on Liftgate, and vehicle charging system are connected correctly to a common ground. For trailers, if possible, use 2-pole charge line to connect charging system on tractor to the Liftgate batteries.

1. Attach ground cable to ground stud outside the pump box (FIG. 34-1). Tighten nut.

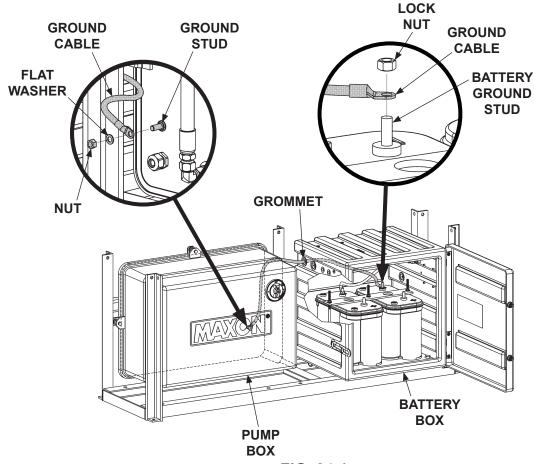


FIG. 34-1

2. Route ground cable behind pump box to the grommet on the side wall of battery box (FIG. 34-1). Then, pull ground cable through grommet to the battery ground stud (FIG. 34-1).

**NOTE:** Ensure battery box is connected by cable to common ground on vehicle.

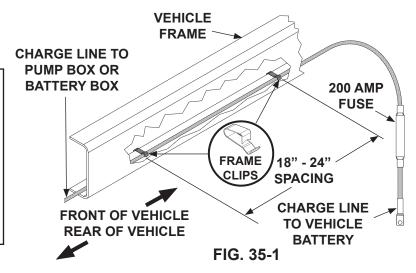
3. Attach ground cable to battery ground stud (FIG. 34-1). Tighten lock nut.

## STEP 8 - RUN CHARGE LINES

## **A** CAUTION

Never route an energized wire. Make sure 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.

NOTE: Make sure cable is long enough to reach master disconnect switch on Liftgate pump box (or circuit breaker in optional battery box, if installed) without putting tension on the cable.



- Install vehicle charge line by running the line along the inside of vehicle frame (FIG. 35-1). Make sure 200 amp fuse (FIG. 35-1) end of cable is by the vehicle battery. Run the charge line from vehicle battery to Liftgate pump box master disconnect switch (FIG. 35-2) or 150 amp circuit breaker in optional battery box (FIG. 35-3), if installed. Use frame clips (parts box item) and plastic ties (as required) from charge line kit to secure cable.
- 2. If Liftgate comes with:
  - Single Pole Tractor Charge Line Kit
  - Single Pole Trailer Charge Line Kit
  - Dual Pole Tractor Charge Line Kit
  - Dual Pole Trailer Charge Line Kit

Install charge line according to **Instruction Sheet** contained in each kit.

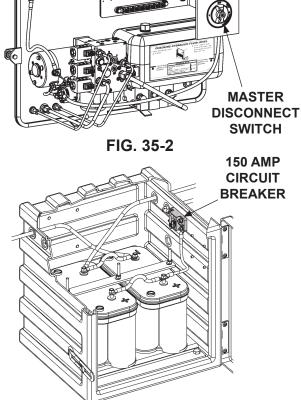


FIG. 35-3

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## **STEP 8 - RUN CHARGE LINES - Continued**

**3.** Bolt 200 amp circuit breaker (Parts Box item) to pump box **(FIG. 36-1)**.

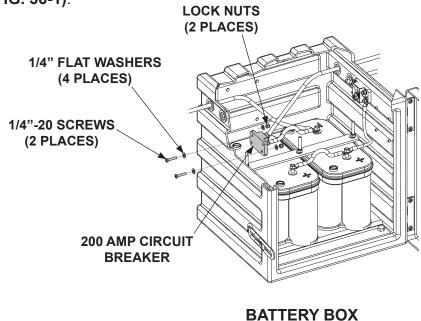
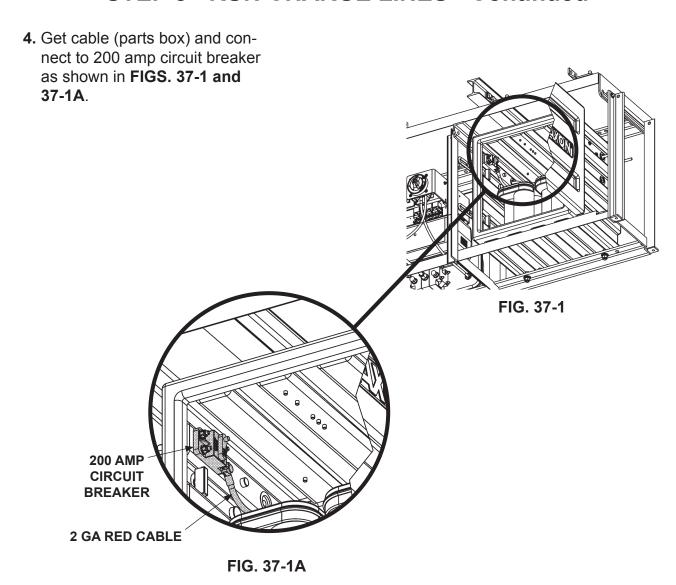


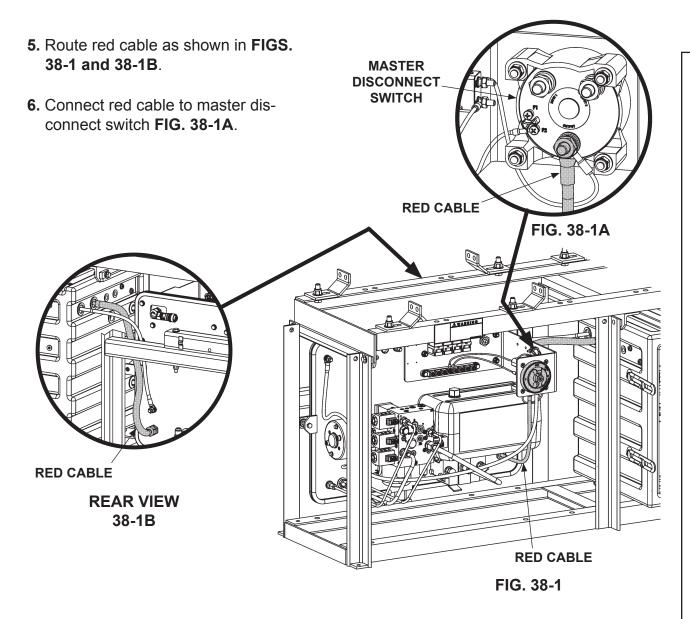
FIG. 36-1

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## **STEP 8 - RUN CHARGE LINES - Continued**



## **STEP 8 - RUN CHARGE LINES - Continued**



## STEP 9 - CONNECT BATTERIES TO LIFTGATE

## **A** WARNING

To prevent injury and equipment damage, make sure (-) battery cable is disconnected and master disconnect switch is in the OFF position before connecting vehicle charge lines or power cables.

**NOTE:** For recommended 6 volt and 12 volt battery connections, refer to the **RECOMMENDED LIFTGATE POWER CONFIGURATION** section in this manual.

1. Disconnect (-) battery cable
(FIG. 39-1) from battery.

GROUND CABLE
TO PUMP BOX (REF)

(+) POWER CABLE
TO PUMP BOX

(-) BATTERY
CABLE
FROM
VEHICLE BATTERY
TO PUMP BOX

200 AMP CIRCUIT

**BREAKER** 

2. If optional battery box is installed, connect vehicle charge line to unconnected terminal on master disconnect switch (FIGS. 39-2 and 39-2A).

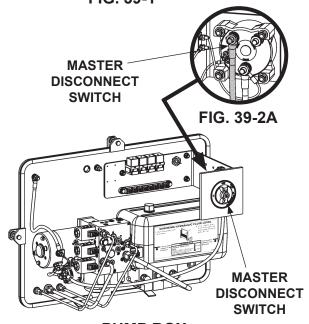
10" RED CABLE

BATTERY BOX

FIG. 39-1

**NOTE:** After battery cables are connected, ensure pump box cover and battery box cover (if equipped) are closed.

If optional battery box (FIG. 39-1) is installed, connect 10" red cable (Parts Box item) between 200 amp circuit breaker and battery (+) terminal (FIG. 39-1). Next, connect (+) power cable between 200 amp circuit breaker in battery box and master switch in the pump box (FIG. 39-2). Then, connect vehicle charge line to 150 amp circuit breaker in battery box (FIG. 39-1).



PUMP BOX FIG. 39-2

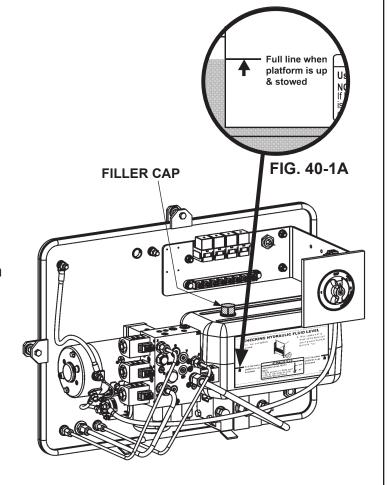
## STEP 10 - ADD HYDRAULIC FLUID TO RESERVOIR

## **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.

1. Open pump box cover (FIG. 40-1).

2. Remove the filler cap (FIGS. 40-1 and 40-1A). Add 7 quarts of Exxon Univis HVI-13 hydraulic fluid to pump reservoir until fluid level reaches the full line.



PUMP BOX SHOWN WITH SINGLE PUMP FIG. 40-1

3. Reinstall the filler cap (FIG. 40-1).

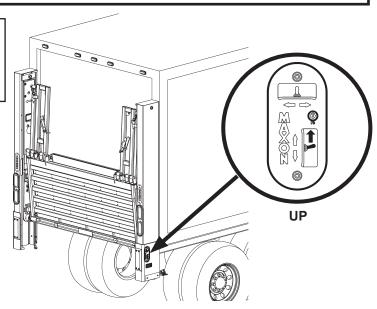
## STEP 11 - PRESSURIZE HYDRAULIC SYSTEM

## **A WARNING**

To prevent injury and equipment damage, pressurize hydraulic system before removing lower support fixtures and operating Liftgate.

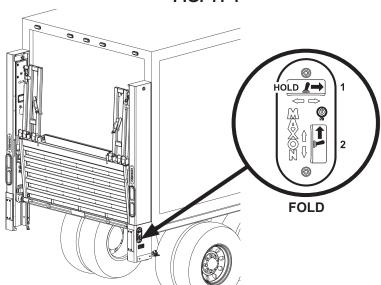
**NOTE:** Before operating liftgate, read and understand the operating instructions in the **Operation Manual**.

**1.** To pressurize lifting cylinders, set control box toggle switch to **UP** for 10-15 seconds as shown in FIG. 41-1.



PRESSURIZING LIFTING CYLINDERS FIG. 41-1

2. To pressurize closing cylinder, set control box toggle switches to FOLD for 10-15 seconds as shown in FIG. 41-2.

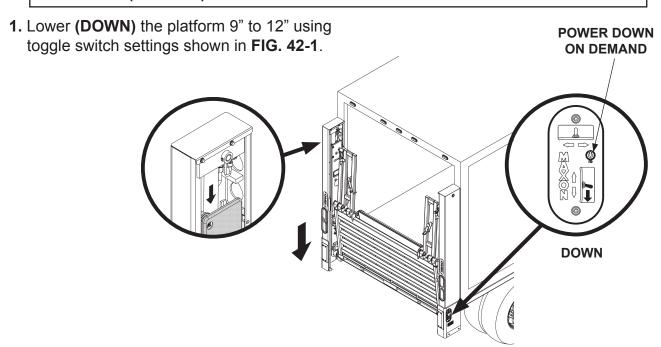


PRESSURIZING CLOSING CYLINDER FIG. 41-2

NOTE: Liftgate is shipped with Exxon Univis HVI-13 hydraulic fluid in the hydraulic cylinders. This fluid is suitable for operation in temperature range of -40° F to +120° F. If necessary, a different brand or higher viscosity hydraulic fluid may be used. Refer to the CHANGING HYDRAULIC FLUID procedure in the **BMR-CS Maintenance Manual.** 

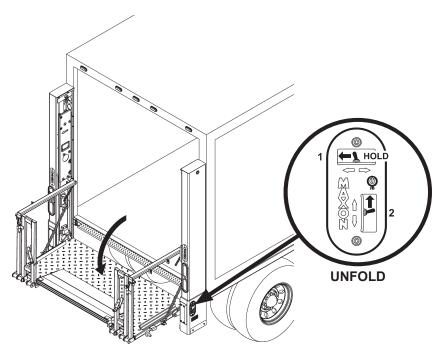
## STEP 12 - OPTIMIZE HYDRAULIC FLUID LEVEL

**NOTE:** If equipped, select **power down on demand** for optimizing hydraulic fluid level **(FIG. 42-1)**.



LOWERING PLATFORM FIG. 42-1

**2.** Open **(UNFOLD)** the platform by setting toggle switches as shown in **FIG. 42-2**.



UNFOLDING PLATFORM FIG. 42-2

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## STEP 12 - OPTIMIZE HYDRAULIC FLUID LEVEL -**Continued**

3. Close (FOLD) the platform by setting toggle switches as shown in FIG. 43-1. Then, open (UNFOLD) the platform by setting toggle switches as shown in FIG. 43-2.

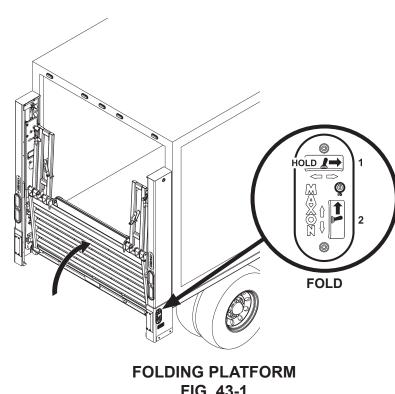
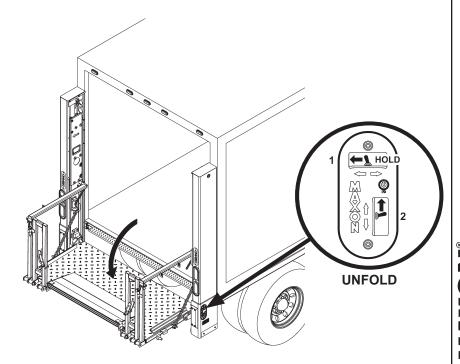


FIG. 43-1

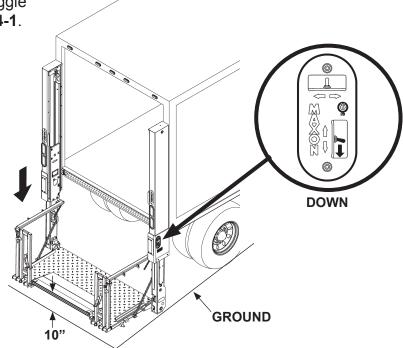


**UNFOLDING PLATFORM** FIG. 43-2

# Santa Fe Springs, CA. 90670 (800) 227-4116 FAX (888) 771-7713 **AXON**<sup>®</sup> 11921 Slauson Ave.

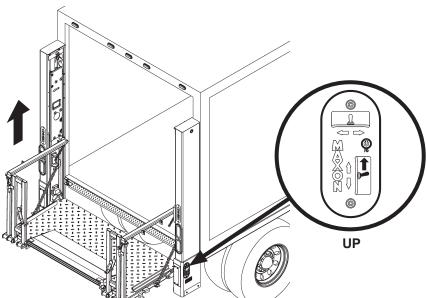
## STEP 12 - OPTIMIZE HYDRAULIC FLUID LEVEL - Continued

**4.** Lower **(DOWN)** the platform to 10" above ground level using the toggle switch settings shown in **FIG. 44-1**.



LOWERING PLATFORM FIG. 44-1

**5.** Raise **(UP)** the platform to about 6" below bed height using toggle switch setting shown in **FIG. 44-2**.

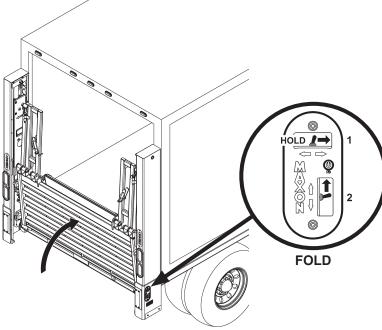


RAISING PLATFORM FIG. 44-2

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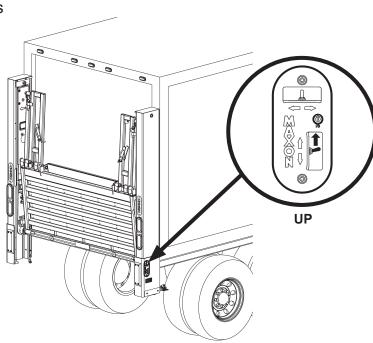
## STEP 12 - OPTIMIZE HYDRAULIC FLUID LEVEL - Continued

Close (FOLD) the platform by setting toggle switches as shown in FIG. 45-1.



FOLDING PLATFORM FIG. 45-1

**7.** Raise **(UP)** the runners to stow platform by setting toggle switches as shown in **FIG. 45-2**.



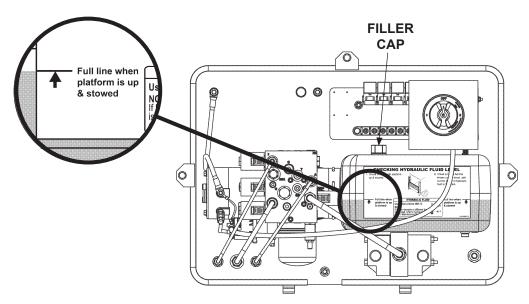
RAISING PLATFORM FIG. 45-2

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## STEP 12 - OPTIMIZE HYDRAULIC FLUID LEVEL - Continued

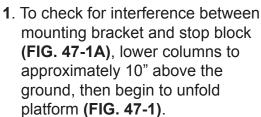
**NOTE:** Information for checking hydraulic fluid level is shown on a decal on the pump reservoir.

8. Check if hydraulic fluid level is at the full line (FIG. 46-1). If necessary, remove filler cap (FIG. 46-1) and add hydraulic fluid until level rises to the full line (FIG. 46-1). Then, reinstall filler cap (FIG. 46-1).

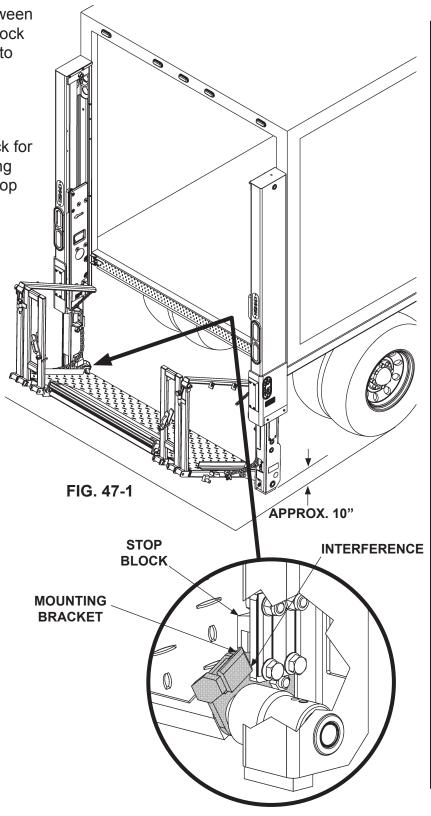


CHECKING HYDRAULIC FLUID LEVEL FIG. 46-1

## STEP 13 - CHECK MOUNTING BRACKET FIT



2. As platform is unfolding, check for interference from the mounting bracket as it slides into the stop block (FIG. 47-1A).



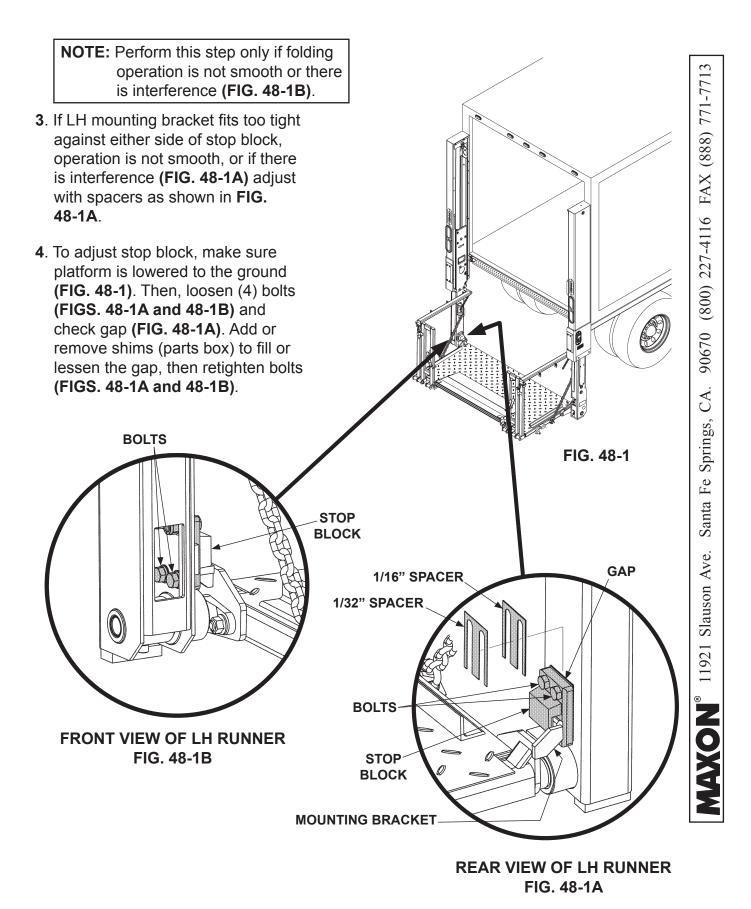
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REAR VIEW OF LH RUNNER FIG. 47-1A

## STEP 13 - CHECK MOUNTING BRACKET FIT - Continued



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FIG. 49-1

## STEP 14 - FINISH WELDING LIFTGATE TO VEHICLE **WELD LIFTGATE TO BODY**

1. Disconnect power from pump by removing nut from negative (-) battery terminal and disconnect negative (-) battery cable (FIG. 49-1). Reinstall NUT nut on negative (-) battery terminal. **NEGATIVE (-) BATTERY TERMINAL NEGATIVE (-) BATTERY CABLE** BATTERY **DISCONNECTING POWER** 

## STEP 14 - FINISH WELDING LIFTGATE TO VEHICLE **WELD LIFTGATE TO BODY - Continued**

## **A WARNING**

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

NOTE: Refer to INSTALLED LIFTGATE in the VEHICLE REQUIREMENTS section of this manual.

**NOTE:** If Liftgate columns cannot be mounted flush against rear of vehicle, a filler such as tubing, channel, or plate stock may be used to bridge gap between vehicle body and Liftgate columns. Make sure the added materials and welds meet the BODY STRENGTH REQUIREMENTS indicated in this manual.

## **CAUTION**

To prevent damage to Liftgate, connect welder ground to vehicle body.

- 2. Cover platform as shown in **FIG. 50-1**.
- 3. Weld the Liftgate RH and LH columns to vehicle body as shown in FIG. 50-1.

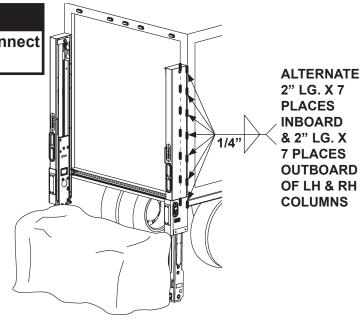


FIG. 50-1

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## STEP 14 - FINISH WELDING LIFTGATE TO VEHICLE WELD LIFTGATE TO BODY - Continued

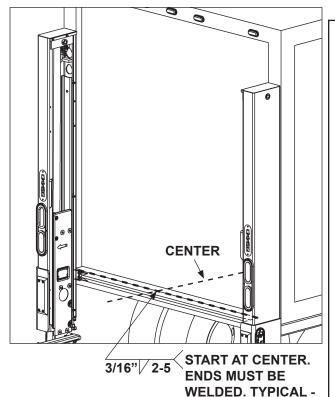
## **CAUTION**

To prevent damage to Liftgate components, welder ground must be connected to Liftgate extension plate.

**4.** Make sure platform is at ground level to provide access to the extension plate.

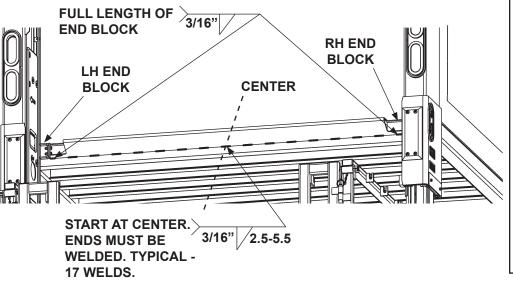
NOTE: After welding top of extension plate, if you see a gap between bottom of extension plate & vehicle body sill, fill the gap. To fill the gap, use A-36 General Purpose steel and the same welds shown in FIG. 51-2.

- Weld the top and bottom surfaces of extension plate (FIGS. 51-1 & 51-2) to vehicle body sill.
- **6.** Weld entire length **(FIG. 51-2)** on the bottom of LH and RH end blocks.



WELDING TOP OF EXTENSION PLATE FIG. 51-1

17 WELDS.

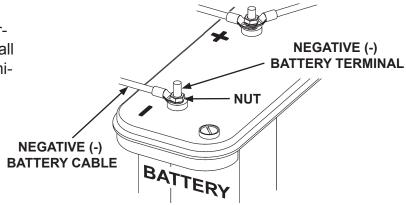


WELDING BOTTOM OF EXTENSION PLATE FIG. 51-2

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## STEP 14 - FINISH WELDING LIFTGATE TO VEHICLE WELD LIFTGATE TO BODY - Continued

7. Reconnect negative (-) battery cable to negative (-) battery terminal (FIG. 52-3). Then, reinstall nut on negative (-) battery terminal (FIG. 52-3).



RECONNECTED BATTERY CABLES FIG. 52-3

## STEP 15 - PLACE "ALIGN ARROWS" DECAL

**NOTE:** Make sure **RUNNERS** are raised all the way up (closest to top of **COLUMN**) before doing the following steps.

 Peel backing from alignment tape and place it on LH column as shown in FIG. 53-1. Repeat for RH column.

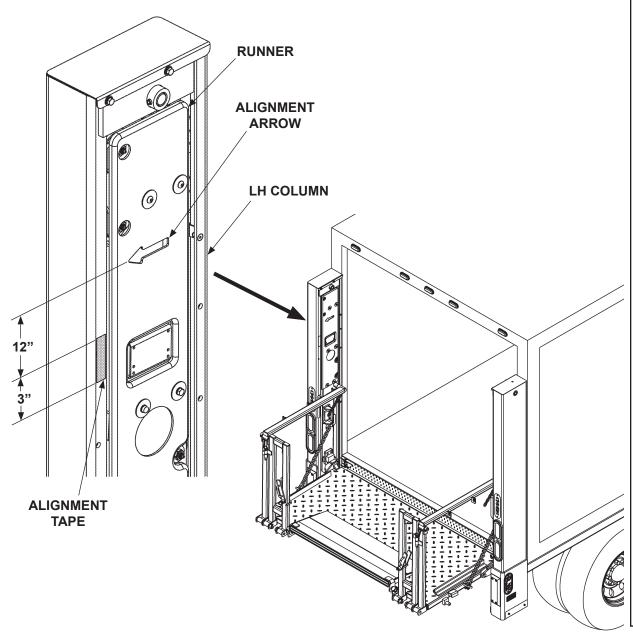


FIG. 53-1

## ATTACH DECALS

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

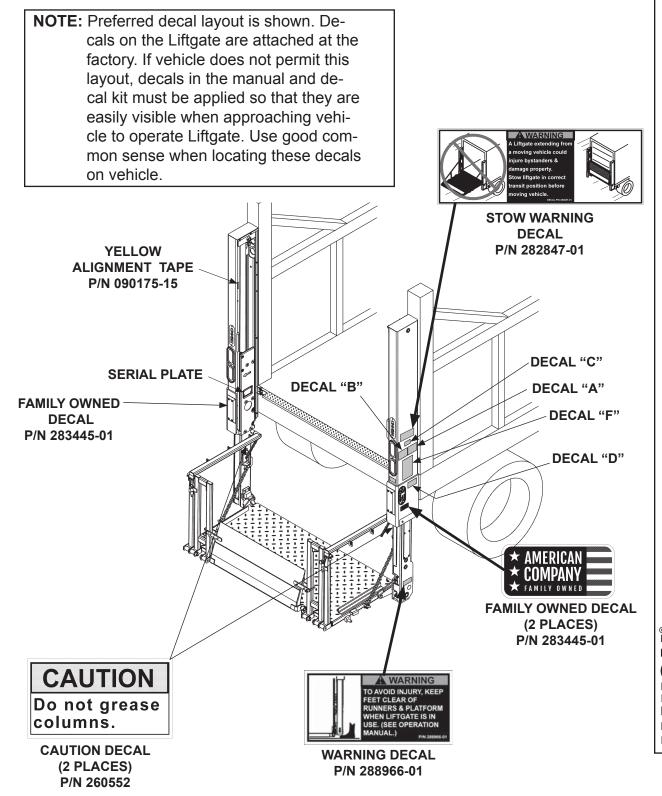


FIG. 54-1

## **MON**® 11921

## **DECALS - Continued**

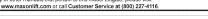
B

## 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.
- If you are using a pallet jack, be sure it can be maneuvered safely
- 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
- If a helper is riding the platform with you, make sure you are both doing so safely and that you are not in danger of coming in contact with any moving or potentially moving obstacles.
- USE GOOD COMMON SENSE
- If load appears to be unsafe, do not lift or lower it

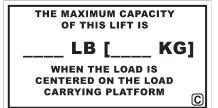
For a free copy of other manuals that pertain to this model Liftgate, please visit ebsite at www.maxonlift.com or call Customer Service at (800) 227-4116





Read all decals and operation manual before operating liftgate.

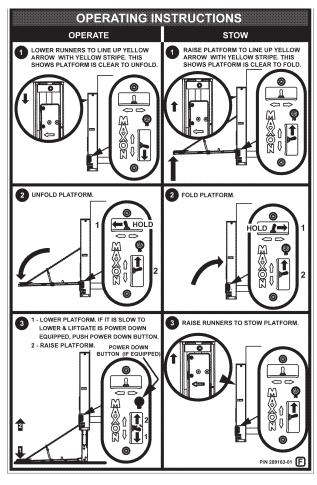
- Do not use liftgate unless you have been properly instructed and have read, and are familiar with, the operating instructions.
- Be certain vehicle is properly and securely braked before using the liftgate.
- . Always inspect this liftgate for maintenance or damage before using it. Do not use liftgate 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.
- 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.
- This liftgate is intended for loading and unloading of cargo only. Do not use this liftgate for anything but its intended use. A



(REFER TO TABLE 55-1)







## **DECAL SHEET** FIG. 55-1

MODEL	ORDER P/N	DECAL "C"		
BMRB-CS35	289163-01	3500 LBS. [1600 KG]		
BMRB-CS44	289163-02	4400 LBS. [2000 KG]		

## **DECAL SHEET PART NUMBERS TABLE 55-1**

## **TOUCH UP GALVANIZED FINISH**

## **CAUTION**

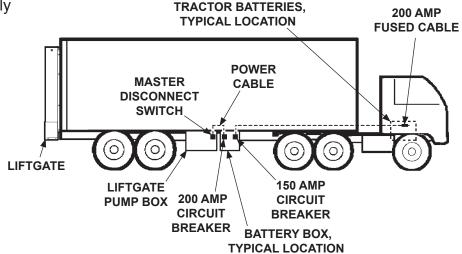
Damaged cylinder seals and contaminated hydraulic fluid can result from applying cold galvanized spray to the polished portion of the cylinder rod. To prevent damage, protect the exposed polished portion of the cylinder rod while spraying.

• 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.

## **OPTIONS** RECOMMENDED LIFTGATE POWER CONFIGURATION

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

1. Liftgate, pump box, and battery box are typically installed on trailers as shown in FIG. 57-1.



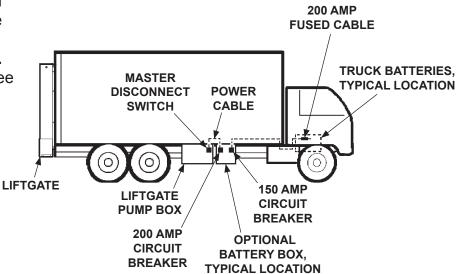
RECOMMENDED LIFTGATE & BATTERY BOX **INSTALLATION ON TRAILER** FIG. 57-1

## **OPTIONS**

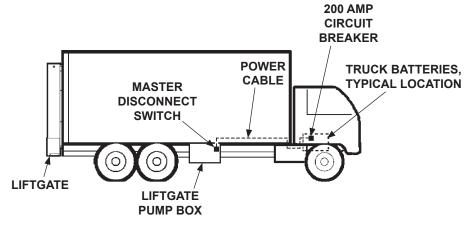
## **RECOMMENDED LIFTGATE POWER CONFIGURATION - Continued**

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.

2. Liftgate, pump box, and optional battery box are typically installed on trucks as shown in FIG. 58-1 and FIG. 58-2 . See the following page for battery and cable connections.



## RECOMMENDED LIFTGATE & BATTERY BOX **INSTALLATION ON TRUCK** FIG. 58-1



RECOMMENDED LIFTGATE INSTALLATION ON TRUCK FIG. 58-2

## **HYDRAULIC SYSTEM DIAGRAMS PUMP & MOTOR SOLENOID OPERATION - POWER DOWN**

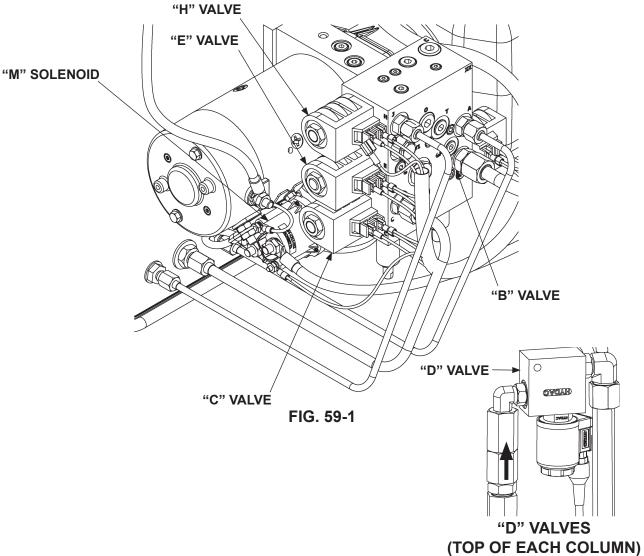
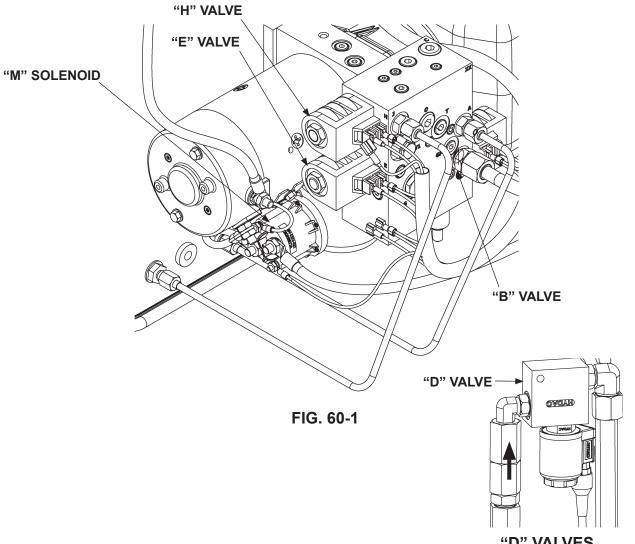


FIG. 59-2

POWER UNIT MOTOR & SOLENOID OPERATION - POWER DOWN									
LIFTGATE	PORT	SOLENOID OPERATION ( ✓ MEANS ENERGIZED)							
FUNCTION		SWITCH	RELAY	MOTOR	VALVE "B"	VALVE "C"	VALVE "D"	VALVE "E"	VALVE "H"
LIFT	В		-	<b>✓</b>	-	-	-	-	-
LOWER	С	"PD"	-	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	-	-
OPEN	J	PD	-	<b>✓</b>	-	-	-	<b>✓</b>	<b>✓</b>
CLOSE	Α		-	<b>✓</b>	-	-	-	<b>✓</b>	-
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC									

**TABLE 59-1** 

## **HYDRAULIC SYSTEM DIAGRAMS PUMP & MOTOR SOLENOID OPERATION - GRAVITY DOWN**



"D" VALVES (TOP OF EACH COLUMN) FIG. 60-2

POWER UNIT MOTOR & SOLENOID OPERATION - GRAVITY DOWN									
LIFTGATE	PORT	SOLENOID OPERATION ( ✓ MEANS ENERGIZED)							
		SWITCH	RELAY	MOTOR	VALVE "B"	VALVE "C"	VALVE "D"	VALVE "E"	VALVE "H"
LIFT	В		-	<b>✓</b>	-	-	-	-	-
LOWER	С	"CD"	<b>✓</b>	-	<b>✓</b>	-	<b>✓</b>	-	-
OPEN	J	"GD"	-	<b>✓</b>	-	-	-	<b>✓</b>	<b>✓</b>
CLOSE	Α		-	<b>✓</b>	-	-	-	<b>✓</b>	-
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC									

**TABLE 60-1** 

# MAXON® 11921 Slauson Ave.

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CA.

Santa Fe Springs,

## HYDRAULIC SYSTEM DIAGRAMS GRAVITY DOWN HYDRAULIC SCHEMATIC

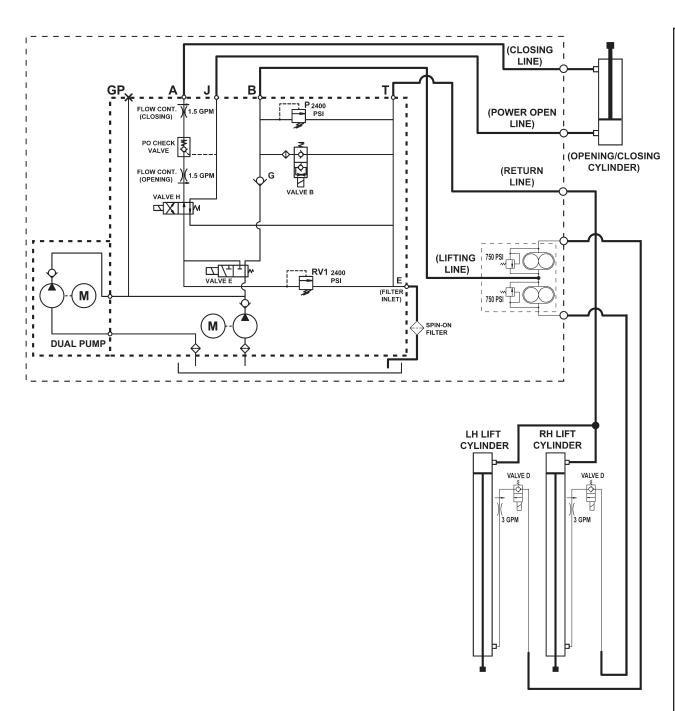


FIG. 61-1

# MAXON® 11921 Slauson Ave.

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CA.

Santa Fe Springs,

## HYDRAULIC SYSTEM DIAGRAMS POWER DOWN HYDRAULIC SCHEMATIC

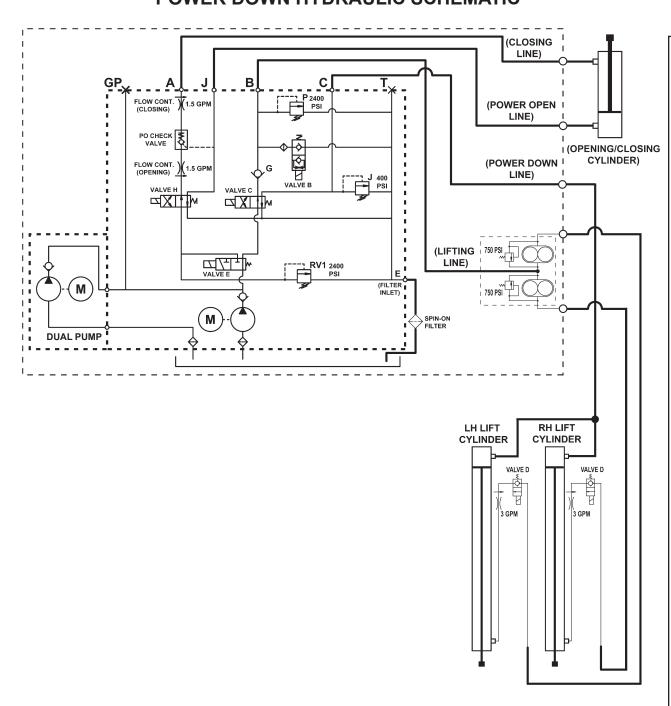


FIG. 62-1

## ELECTRICAL SYSTEM DIAGRAMS INTERCONNECTING ELECTRICAL SCHEMATIC

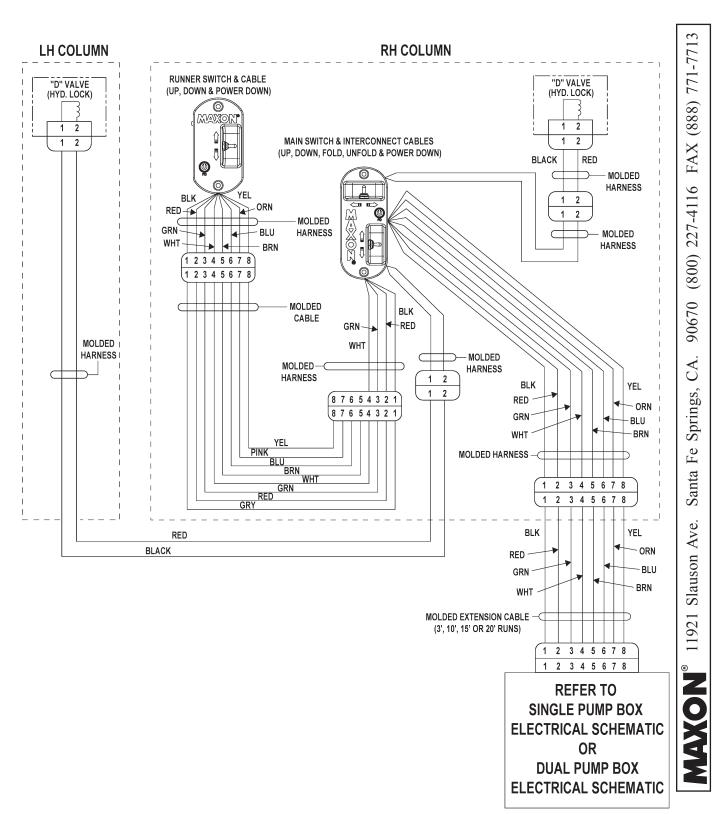


FIG. 63-1

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

CA.

## ELECTRICAL SYSTEM DIAGRAMS SINGLE PUMP BOX ELECTRICAL SCHEMATIC GRAVITY DOWN

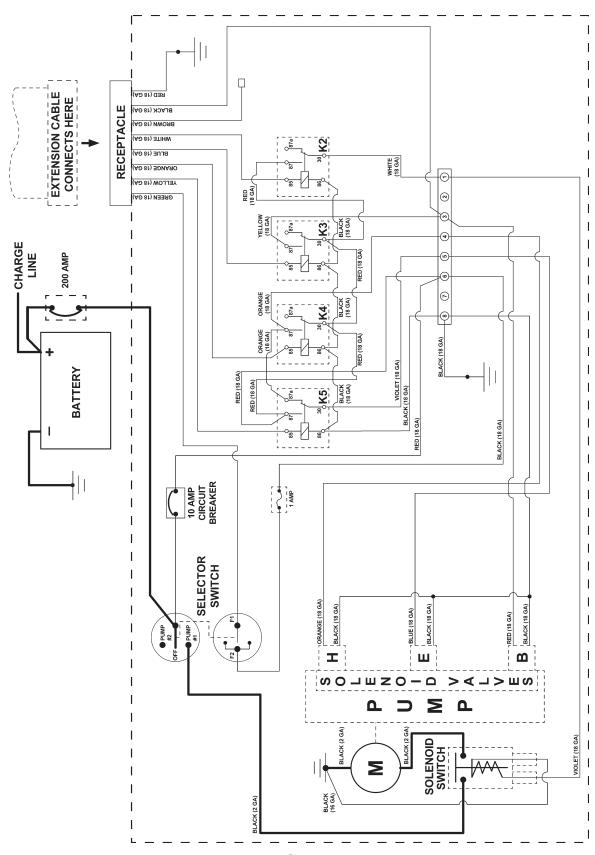


FIG. 64-1

# 11921 Slauson Ave. Santa Fe Springs, CA.

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

## ELECTRICAL SYSTEM DIAGRAMS DUAL PUMP BOX ELECTRICAL SCHEMATIC GRAVITY DOWN

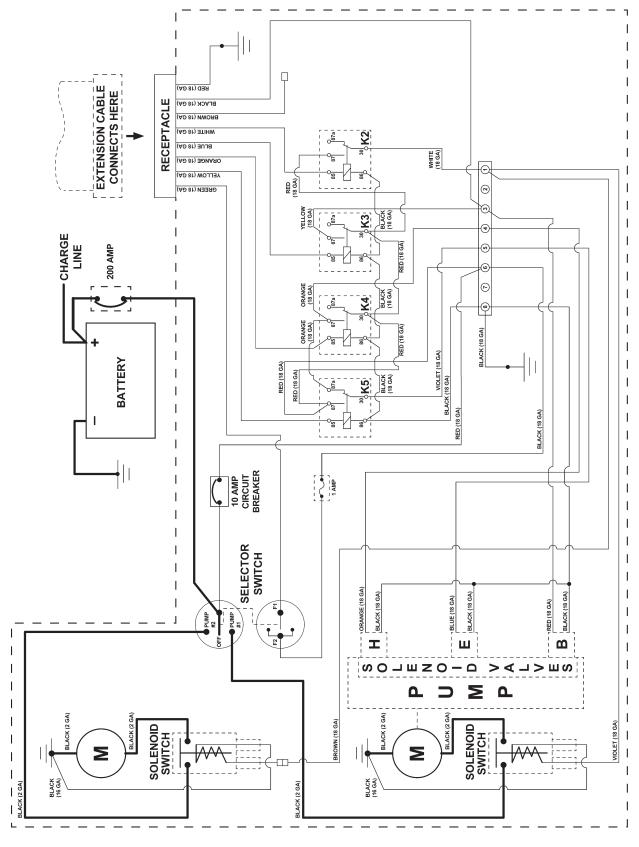


FIG. 65-1

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

## ELECTRICAL SYSTEM DIAGRAMS SINGLE PUMP BOX ELECTRICAL SCHEMATIC POWER DOWN

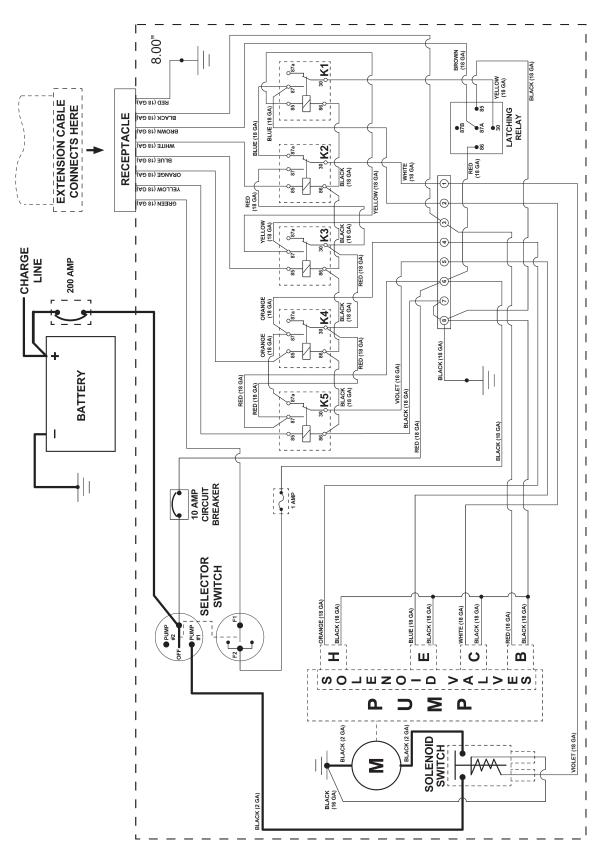


FIG. 66-1

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

CA.

## ELECTRICAL SYSTEM DIAGRAMS DUAL PUMP BOX ELECTRICAL SCHEMATIC POWER DOWN

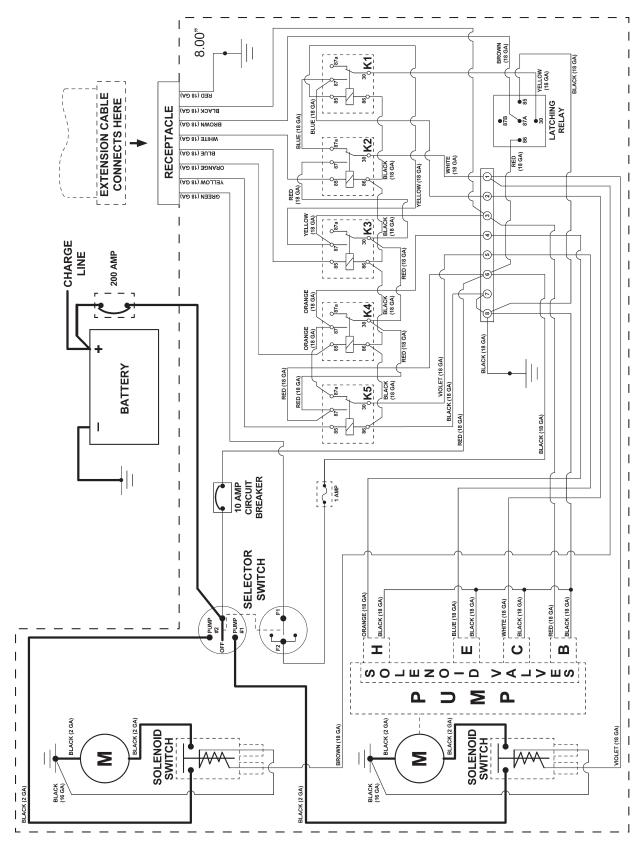


FIG. 67-1

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

## **MAXON**®

## PRE-DELIVERY INSPECTION FORM

Model:		Da	nte:				
Serial Number:			Technician:				
Pre-	Installation Inspection:	Operation Inspection:					
	Correct model	NO.	<b>TE:</b> The following times are for 56" bed				
	Correct capacity		height, aluminum platform and				
	Correct platform size		flipover 85" W x 42" + 42" L, Exxon				
	Correct options		Univis HVI-13 oil, & temperature at 70°F. Times are for reference only				
	Manuals & decals		and may vary for larger platforms,				
Structural Inspection:			smaller platforms, steel platforms, or temperature changes.				
	Inspect alignment of final assembly		tomporatare origings.				
	Inspect pump box secure mounting		All BMR-CS				
	Inspect all installation welds						
	Check roll pins, bolts and fasteners		Check operation of main control				
	Check for no twists in chain		Check operation of runner control				
	Inspect tightness of hardware used for securing columns to mounting plates		Platform unfolds in 5 to 7 sec.				
	Ensure platform ramp touches ground		Platform folds in 5 to 7 sec.				
Hvd	raulic Inspection:		Unloaded platform lowers in 8 to 20 sec.				
	Proper fluid level (See OPTIMIZE		Platform loaded with 1000 lb (plus) lowers in 8 to 12 sec.				
	HYDRAULIC FLUID LEVEL step in this manual)		Unloaded platform raises in <b>9 to 21 sec</b> .				
	Check fittings for leaks in pump box		Platform raises and lowers evenly. Maxi-				
	Check fittings for leaks in columns	-	mum 1" difference from side to side.				
Electrical Inspection:			Platform stores and locks securely behind both column wedges				
	Check power/charge plug and terminal		Check lift operation under load				
	Check for loose wires and terminals		·				
	Circuit breaker		Decals in correct location and legible				
	Battery hookup,12 volt						
	Check for fully charged batteries						
	Inspect all solenoid connections						
	Check all wiring harness connections						
	Outside control box location  Check electrical cable connections (at the						

bottom of the curb-side runner) tight and

secure