M-11-13
APRIL 2012

MAXON®

DMD Series

INSTALLATION MANUAL
DMD-22 & DMD-33

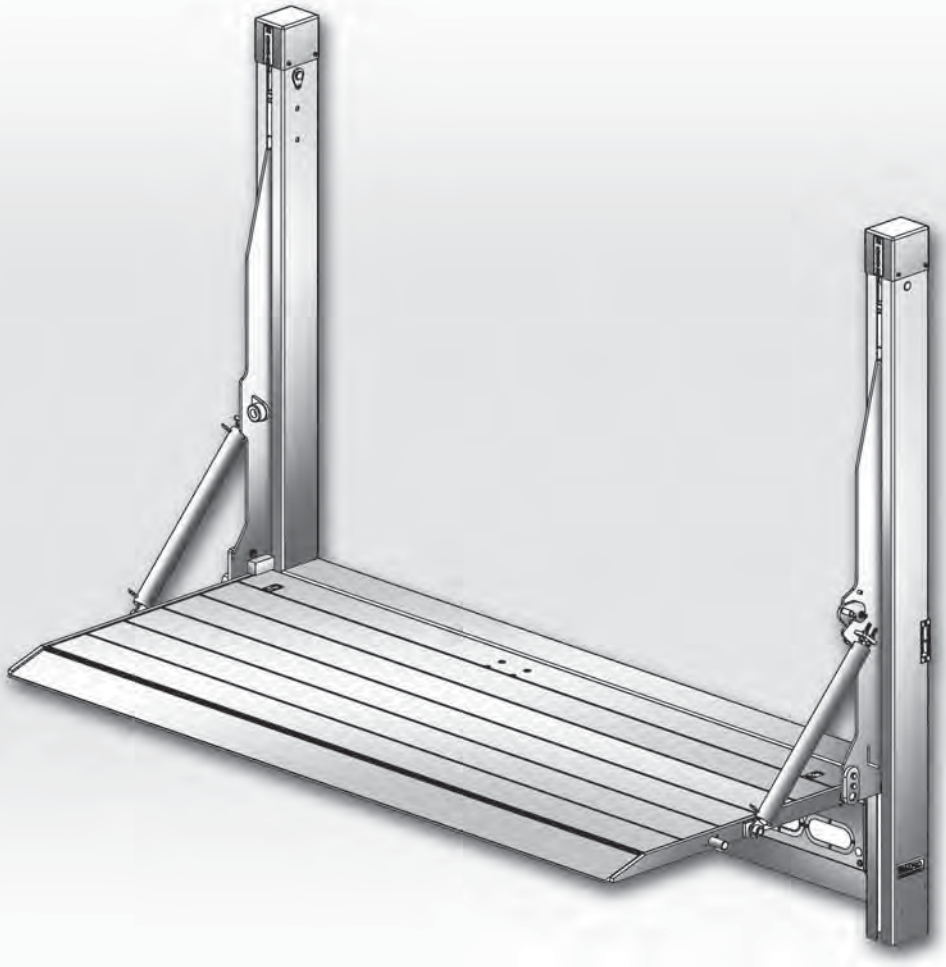

TABLE OF CONTENTS

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.

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NOTICE

- Maxon Lift is responsible for the instructions to correctly install **MAXON** Liftgates on trucks or trailers only.
- Liftgate installers, not Maxon Lift, are responsible for reviewing and complying with all applicable Federal, State, and Local regulations pertaining to the trailer or truck.

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VEHICLE REQUIREMENTS

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

BODY STRENGTH

⚠ WARNING

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

NOTE: Maximum Operating Bed Height for body is **54" (Unloaded)**. Minimum is **30" (Loaded)**. Do not install this Liftgate on vehicle bodies equipped with swing open doors.

The DMD is a body-mounted Liftgate that puts forces on the side walls of truck and trailer bodies **(FIG. 5-1)**. For correct installation, truck and trailer bodies must be strong enough to withstand the tension, compression and shear forces shown in **FIG. 5-1**. Use **TABLES 6-1,** and **6-2** 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

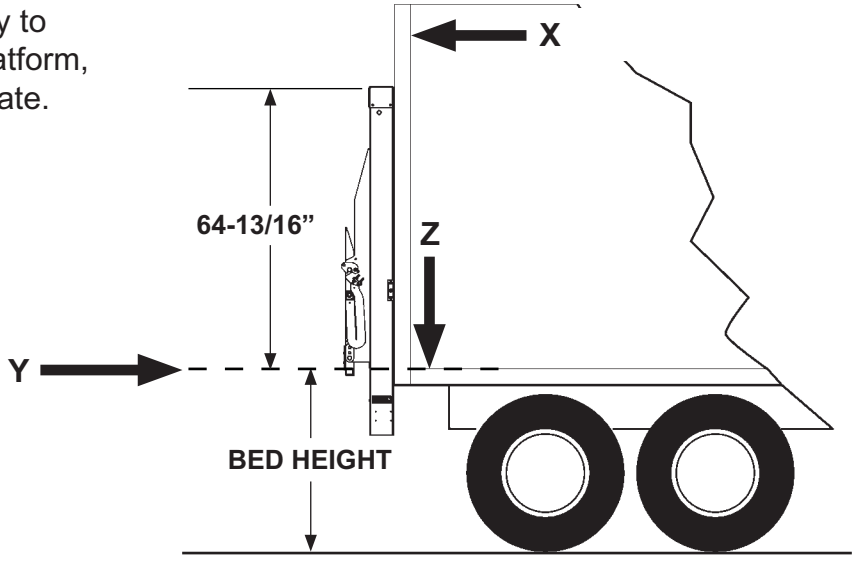

FIG. 5-1

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VEHICLE REQUIREMENTS - Continued
BODY STRENGTH - Continued

DMD-22 FORCES

		90" WIDE		96" WIDE		102" WIDE	
MODEL CAPACITY	P/F SIZE	(X) (Y) LBS.	(Z) LBS.	(X) (Y) LBS.	(Z) LBS.	(X) (Y) LBS.	(Z) LBS.
2200 LBS.	30	523	2915	527	2936	531	2959
	36	601	2937	606	2958	610	2982
	42	680	2958	685	2980	692	3009
	48	761	2981	767	3005	774	3032
	54	840	2996	848	3026	857	3056
	60	923	3021	932	3051	942	3083
	72	1092	3068	1103	3098	1117	3136

TABLE 6-1

DMD-33 FORCES

		90" WIDE		96" WIDE		102" WIDE	
MODEL CAPACITY	P/F SIZE	(X) (Y) LBS.	(Z) LBS.	(X) (Y) LBS.	(Z) LBS.	(X) (Y) LBS.	(Z) LBS.
3300 LBS.	30	721	4015	724	4036	724	4015
	36	826	4037	831	4058	831	4037
	42	933	4058	938	4080	938	4058
	48	1041	4081	1047	4105	1047	4081
	54	1148	4096	1157	4126	1157	4096
	60	1259	4121	1269	4151	1269	4121
	72	1484	4168	1495	4198	1495	4168

TABLE 6-2

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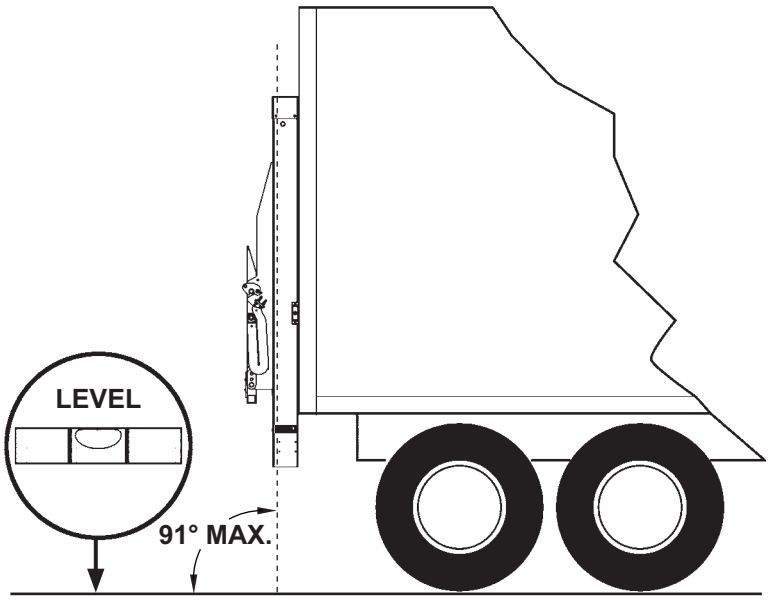
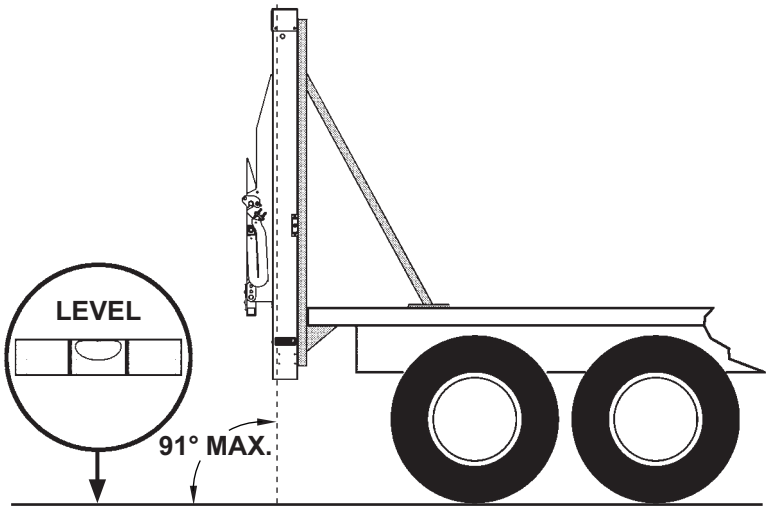
VEHICLE REQUIREMENTS - Continued
INSTALLED LIFTGATE

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 DMD must be perpendicular to the ground (vertical) for the Liftgate to operate correctly **(FIGS. 7-1 and 7-2)**.



LIFTGATE INSTALLED ON VAN BODY (COLUMNS SHOWN PERPENDICULAR TO LEVEL GROUND)
FIG. 7-1



LIFTGATE INSTALLED ON FLAT BED (COLUMNS & SUPPORTS SHOWN PERPENDICULAR TO LEVEL GROUND)
FIG. 7-2

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LIFTGATE INSTALLATION 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

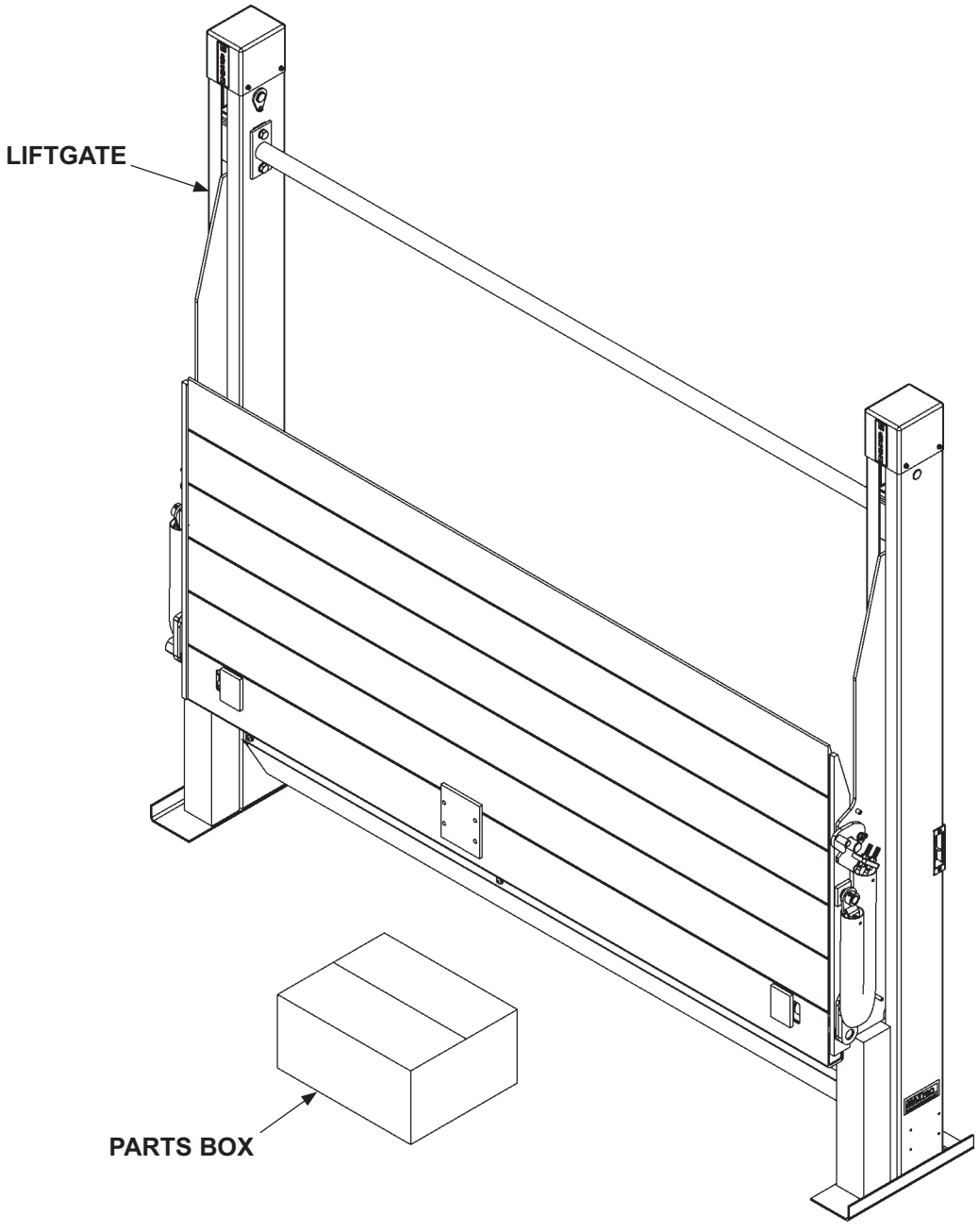

FIG. 8-1

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INSTALLATION PARTS BOX

ITEM	NOMENCLATURE OR DESCRIPTION	QTY	PART NUMBER
1	FRAME CLIP, 1/2” X 1-3/8”	7	050079
2	TAPPING SCREW, #10 x 1/2” LG.	4	030458
3	FUSED POWER CABLE, 175 AMP, 38' LG.	1	264422
4	JIFFY CLAMP, #130	1	125674
5	CLAMP, #8 RUBBER LOOM	3	214663
6	CABLE ASSEMBLY, 2GA, 6’ LG.	1	251871-19
7	BUTT SPLICE, 10GA	1	263348
8	HEX BOLT, 5/16-18 X 3/4” LG, GR8	1	900009-3
9	FLAT WASHER, 5/16” X 1/32” THK.	1	902000-8
10	EXTERNAL TOOTH WASHER, 5/16” X 1/32” THK.	1	903249-01
11	HEX NUT, 5/16”-18	1	901011-3
12	DECAL & MANUAL KIT (DMD-22 ONLY)	1	285381-01
	DECAL & MANUAL KIT (DMD-33 ONLY)	1	285381-02
	A. INSTALLATION MANUAL	1	M-11-13
	B. OPERATION MANUAL	1	M-11-14
	C. MAINTENANCE MANUAL	1	M-11-15
	D. DECALS (SEE DECAL PAGES IN THIS MANUAL)	1	220388-02 (DMD-33 ONLY)
		1	220388-03 (DMD-22 ONLY)
		1	282669-02
		1	267338-01
		1	284216-01

TABLE 9-1

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STEP 1 - POSITION LIFTGATE
WELDING LIFTGATE TO BODY

⚠ 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 main housing to vehicle body, make sure:
- Inboard edge at top of main housing is flush with the top of sill on vehicle body.
- Top surface of main housing is level with the ground.

CAUTION

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

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

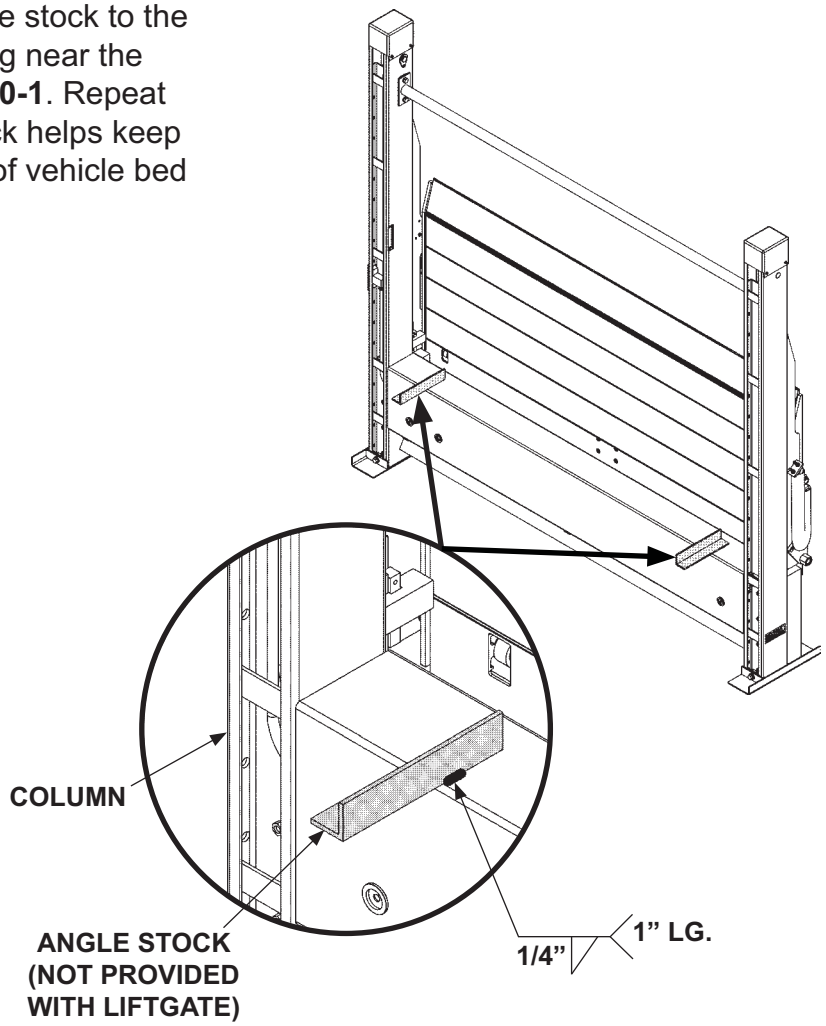

FIG. 10-1

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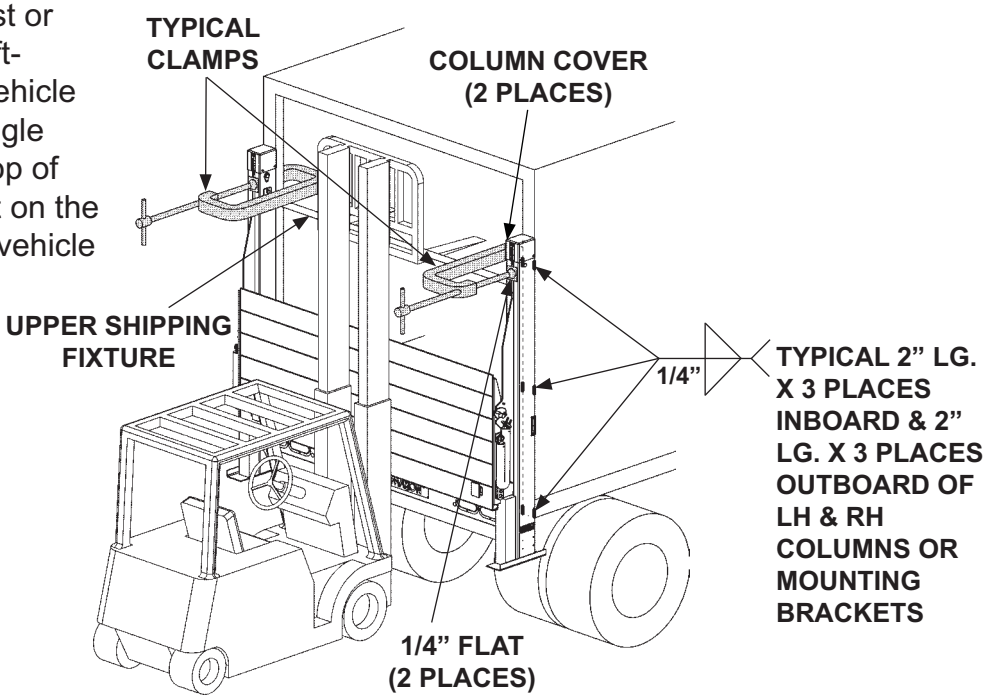
STEP 1 - POSITION LIFTGATE - Continued

WELDING LIFTGATE TO BODY - Continued

2. Use overhead hoist or forklift to center Liftgate against the vehicle **(FIG. 11-1)**. Let angle stock, welded to top of main housing, rest on the top surface of the vehicle bed.



CLAMPING COLUMNS TO VEHICLE BODY
FIG. 11-1

CAUTION

Clamping columns to vehicle at top covers can damage the covers and will not securely clamp the columns. Clamp each column to body corner post below top covers and above upper shipping fixture. Place 1/4" steel flat (not provided by MAXON) between clamp and clamping surface.

3. Clamp top of each column to vehicle body to prevent gap **(FIG. 11-1)**.

CAUTION

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

4. Weld the RH and LH columns to vehicle body as shown in **FIG. 11-1**.

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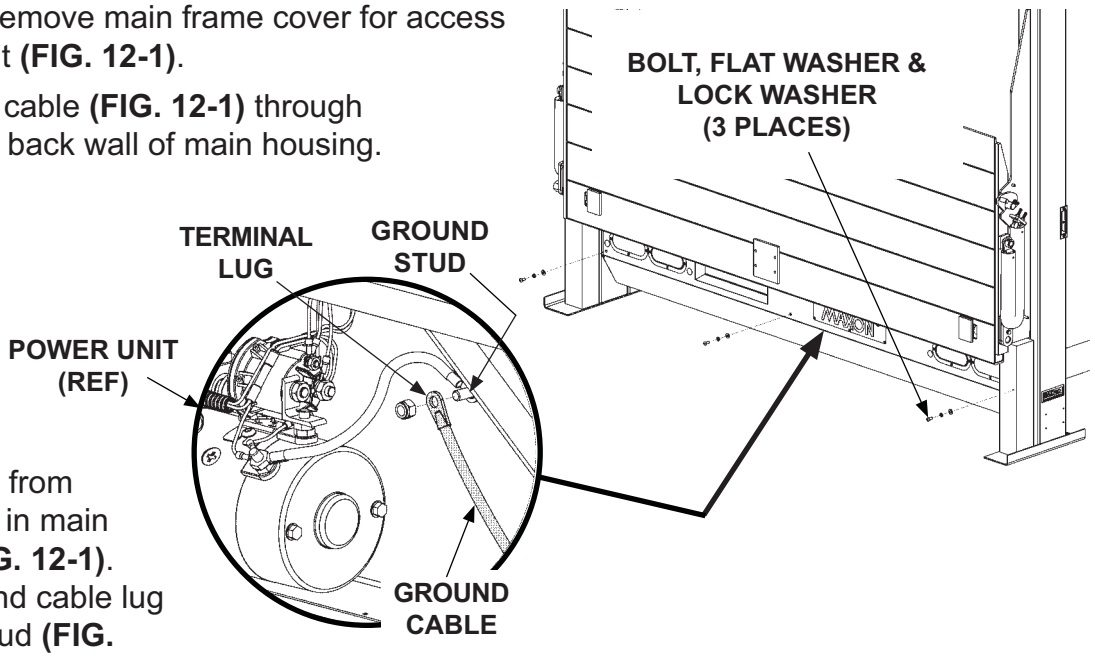
STEP 2 - CONNECT GROUND CABLE

NOTE: To ensure power unit is correctly grounded, MAXON recommends connecting a 2 gauge ground cable (Parts Box item) from grounding stud on main frame housing to a grounding point on the frame.

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

1. Unbolt and remove main frame cover for access to power unit **(FIG. 12-1)**.

2. Run ground cable **(FIG. 12-1)** through grommet on back wall of main housing.



3. Remove nut from ground stud in main housing **(FIG. 12-1)**. Attach ground cable lug to ground stud **(FIG. 12-1)**. Tighten nut.

CONNECTING GROUND CABLE TO GROUND STUD
FIG. 12-1

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

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

3. Extend the ground cable to reach vehicle frame **(FIG. 12-2)** without putting tension on cable (after connection). Connect to existing grounding point if available.

4. If necessary, drill a 11/32” (0.343”) hole in vehicle frame for bolting the ground cable terminal lug **(FIG. 12-2)**.

5. Bolt the ground cable terminal lug to vehicle frame as shown in **FIG. 12-2**.

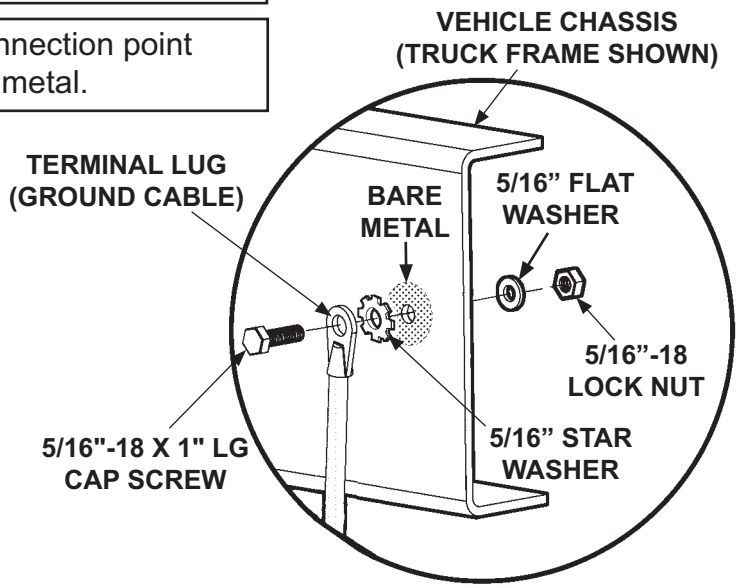


FIG. 12-2

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STEP 3 - 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 to prevent damage to any fuel lines, vent lines, brake lines or wires.

NOTE: Make sure cable is long enough to reach positive terminal on Liftgate pump box without putting tension on the cable.

Install vehicle charge line by running the line along the inside of vehicle frame **(FIG. 13-1)**. Make sure **175 amp fuse (FIG. 13-1)** end of cable is by the battery. Run the charge line from vehicle battery to Liftgate pump box positive terminal. Use frame clips (parts box item) and plastic ties (as required) from charge line kit to secure cable.

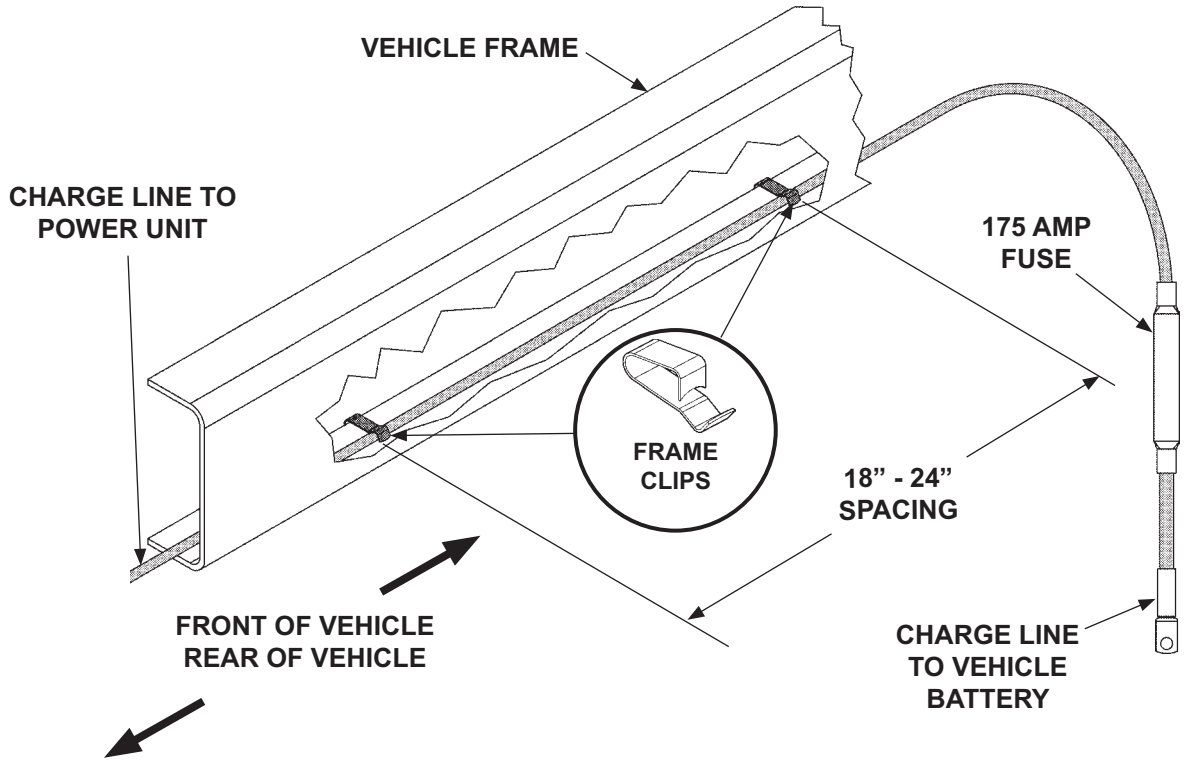

FIG. 13-1

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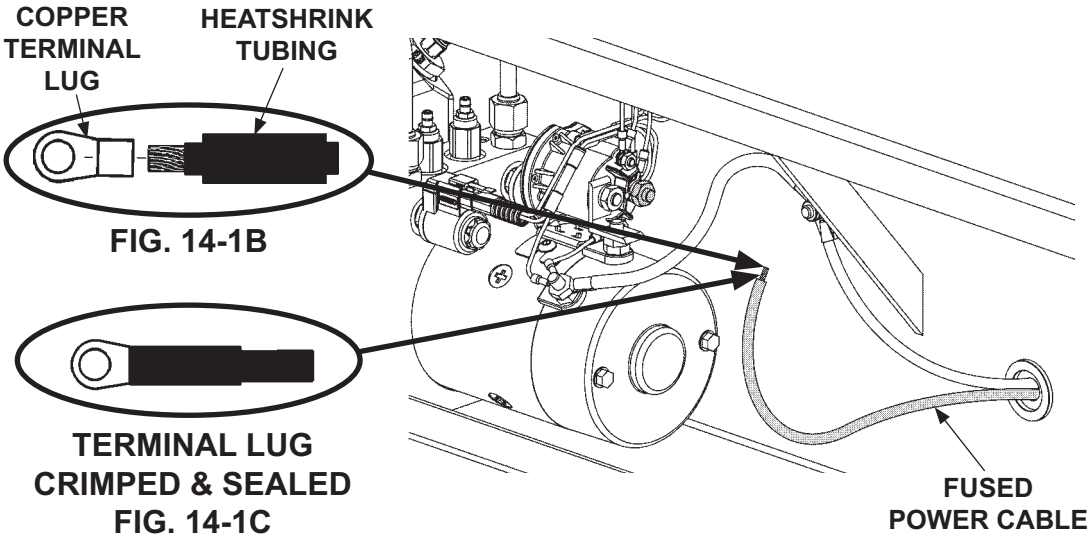
STEP 4 - CONNECT POWER CABLE

1. On the bare wire end of fused power cable, keep enough length to attach copper terminal lug and reach motor solenoid without putting tension on cable (after connection) **(FIG. 14-1A)**. Measure (if needed), and then cut excess cable from bare wire end of cable. Put heatshrink tubing (parts box item) **(FIG. 14-1B)** on the end of the cable and leave room for terminal lug. Crimp copper terminal lug (parts box item) on the fused power cable and shrink the heatshrink tubing **(FIG. 14-1C)**.



PUTTING TERMINAL LUG ON FUSED POWER CABLE
FIG. 14-1A

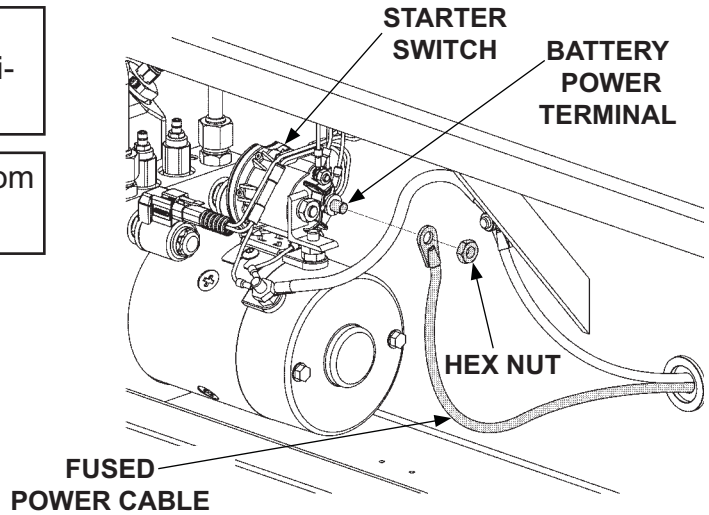
CAUTION

Do not over-tighten the terminal nuts on starter solenoid. For the load terminals, torque nuts to 40 lb.-in. max. Torque the nuts on #10-32 control terminals 15-20 lb.-in.

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

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

2. Remove hex nut from battery power terminal on the starter switch. Connect the fused power cable to the starter switch as shown in **FIG. 14-2**. Reinstall and tighten hex nut.



CONNECTING FUSED POWER CABLE TO POWER UNIT
FIG. 14-2

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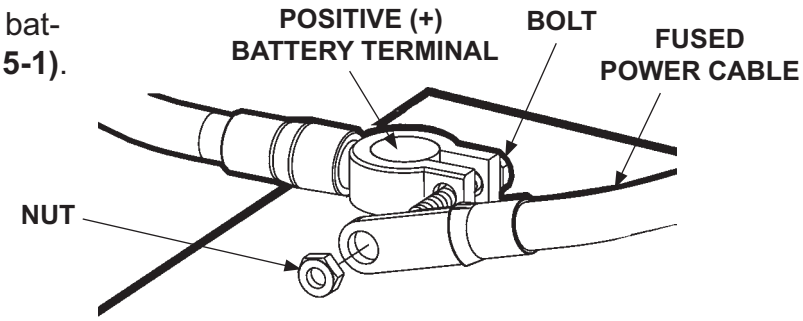
STEP 5 - CONNECTING BATTERY TO LIFTGATE

Remove nut from positive **(+)** battery terminal connector. Connect power cable to the positive **(+)** battery terminal connector **(FIG. 15-1)**. Reinstall and tighten nut.



CONNECTING FUSED POWER CABLE
FIG. 15-1

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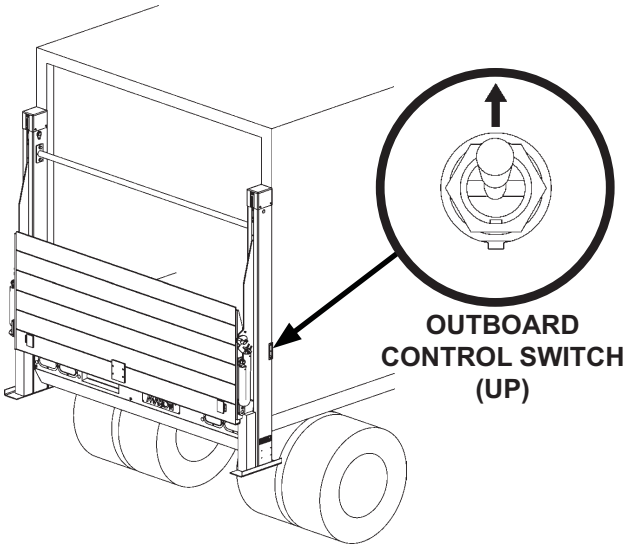
STEP 6 - PRESSURIZE HYDRAULIC SYSTEM

⚠ WARNING

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

To pressurize lifting cylinders, hold outboard control switch in **UP** position rate for 10-15 seconds **(FIG. 16-1)**. Then, release toggle switch.



PRESSURIZING LIFTING CYLINDERS
FIG. 16-1

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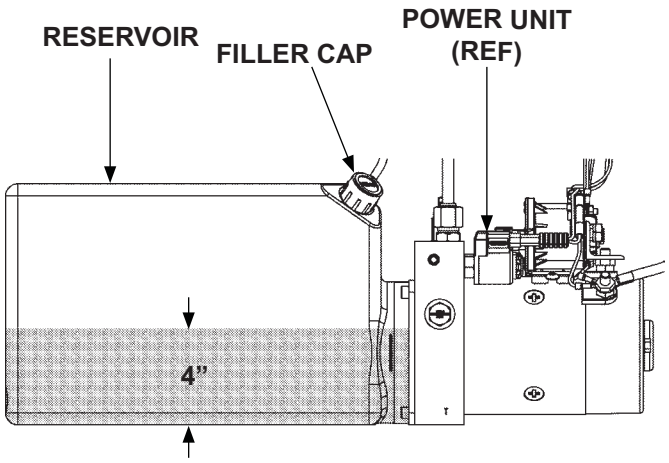
STEP 7 - CHECKING HYDRAULIC FLUID

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.

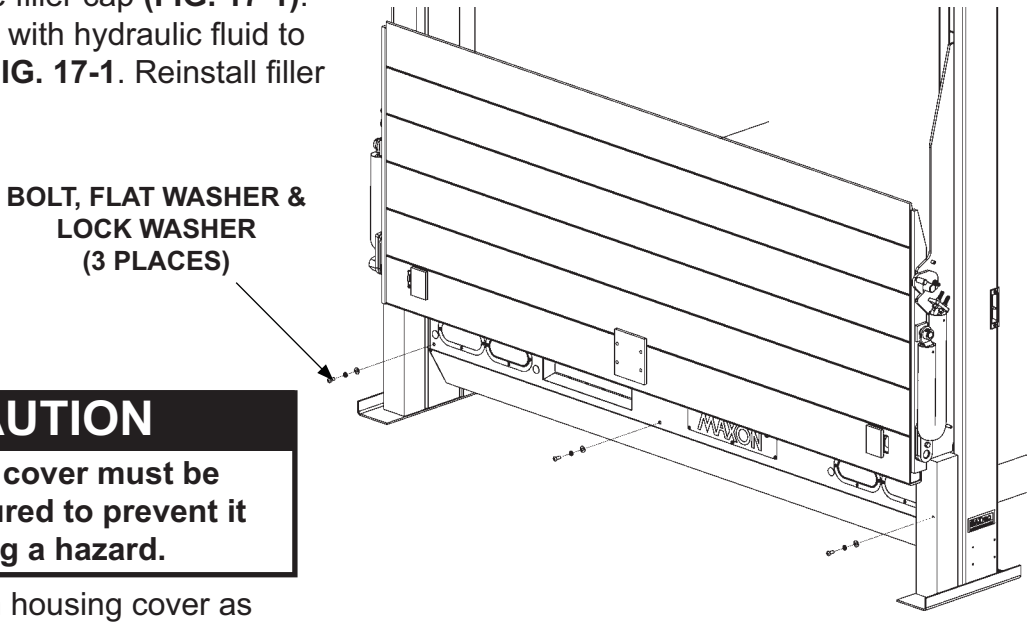
NOTE: Liftgate is shipped with **Exxon Univis HVI-13** hydraulic fluid in the hydraulic cylinders. **Exxon Univis HVI-13** hydraulic fluid is recommended for operating temperatures of **-40 to +120° F**. Refer to decal in pump box. Under certain conditions, other brands and grades of oil may be used as substitutes for the recommended oil. Refer to **TABLES 13-1 & 13-2** in **Maintenance Manual**.

1. Check the hydraulic fluid level in reservoir as follows. With Liftgate stowed, level should be as shown in **FIG. 17-1**.



POWER UNIT FLUID LEVEL
FIG. 17-1

2. If needed, add fluid to the reservoir as follows. Remove filler cap **(FIG. 17-1)**. Fill the reservoir with hydraulic fluid to level shown in **FIG. 17-1**. Reinstall filler cap.



CAUTION

Main housing cover must be correctly secured to prevent it from becoming a hazard.

3. Bolt on the main housing cover as shown in **FIG. 17-2**. Torque the 5/16”-18 cover bolts from **10 to 14 lb-ft**.

BOLTING ON HOUSING COVER
FIG. 17-2

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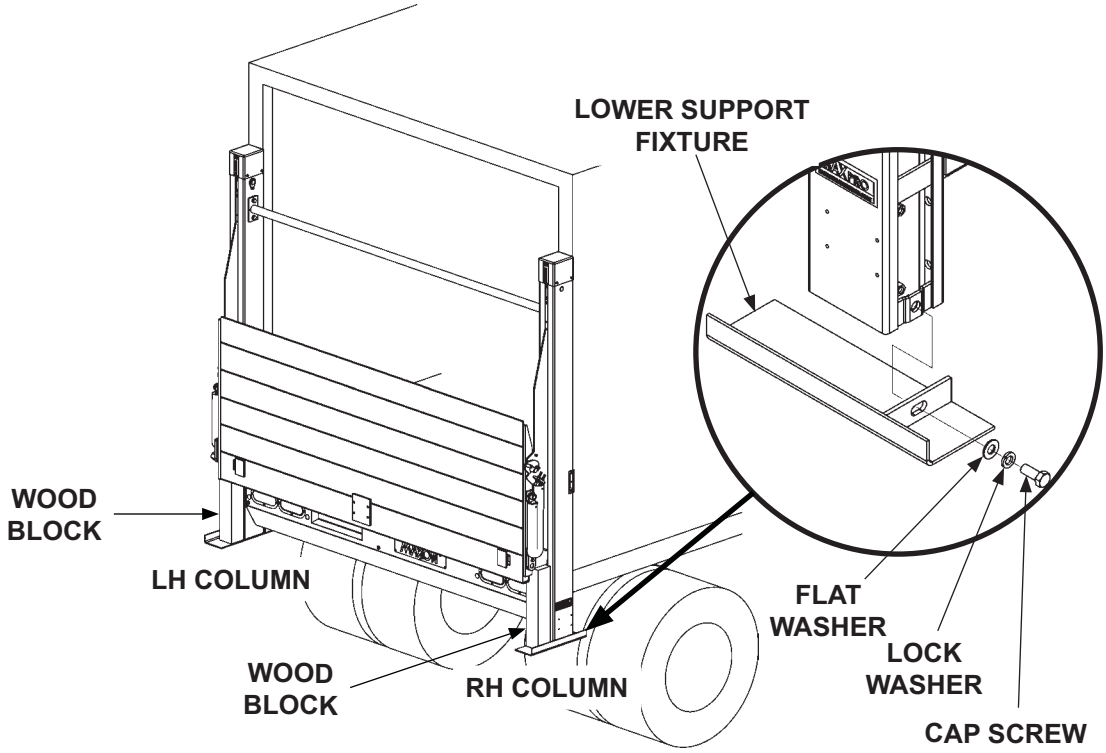
STEP 8 - REMOVING LOWER SUPPORT FIXTURES

1. Unbolt support fixture from bottom of RH column **(FIG. 18-1)**. Repeat for LH column.



UNBOLTING LOWER SUPPORT FIXTURE FROM COLUMN (REAR VIEW OF RH COLUMN & FIXTURE SHOWN) FIG. 18-1

2. Remove and discard wood shipping blocks **(FIG. 18-1)**.

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STEP 9 - FINISH WELDING LIFTGATE TO VEHICLE

⚠ 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: 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

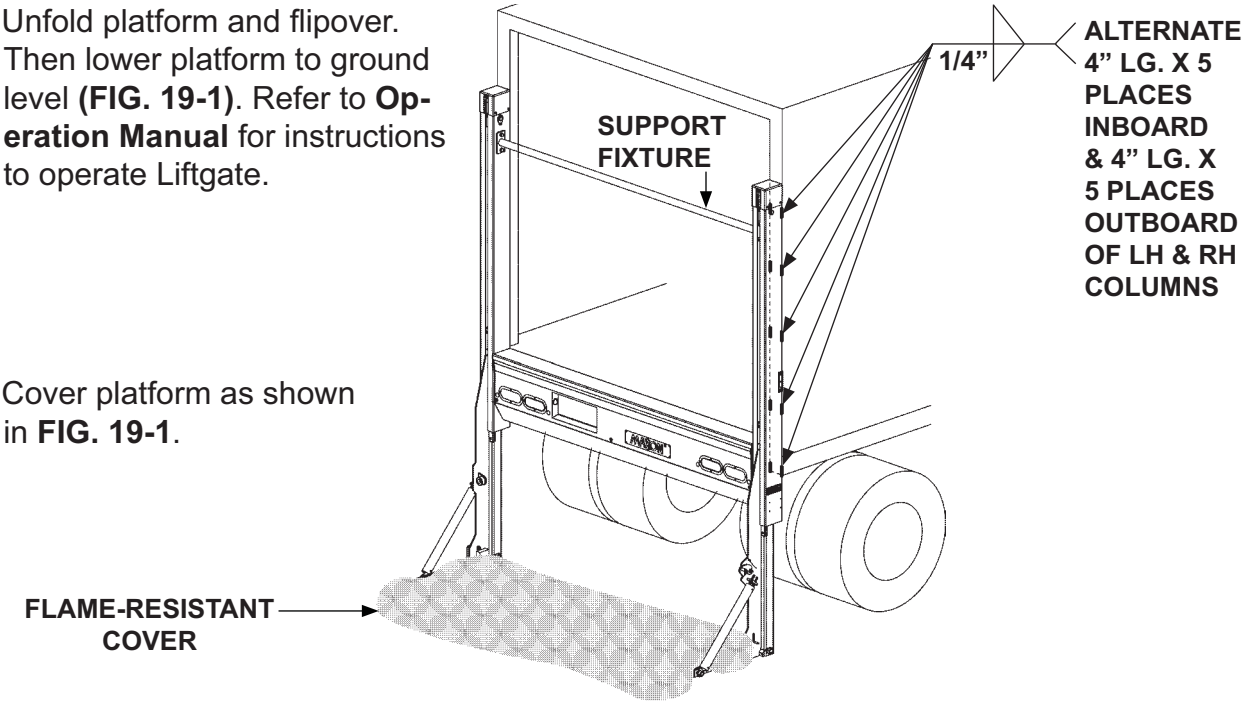
To prevent damage to Liftgate, connect welder ground to vehice body.

⚠ WARNING

Do not remove support fixture before welding.

1. Unfold platform and flipover. Then lower platform to ground level **(FIG. 19-1)**. Refer to **Operation Manual** for instructions to operate Liftgate.

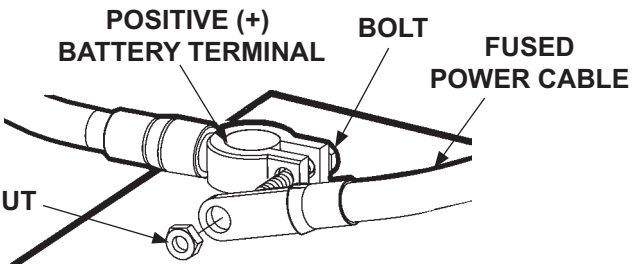
2. Cover platform as shown in **FIG. 19-1**.



WELDING COLUMNS TO VEHICLE BODY
FIG. 19-1

3. Remove nut from positive **(+)** battery terminal connector. Disconnect power cable to the positive **(+)** battery terminal connector **(FIG. 19-2)**. Reinstall nut.

4. Weld the Liftgate RH and LH columns to vehicle body as shown in **FIG. 19-1**.



DISCONNECTING FUSED POWER CABLE
FIG. 19-2

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STEP 9 - FINISH WELDING LIFTGATE TO VEHICLE - Continued

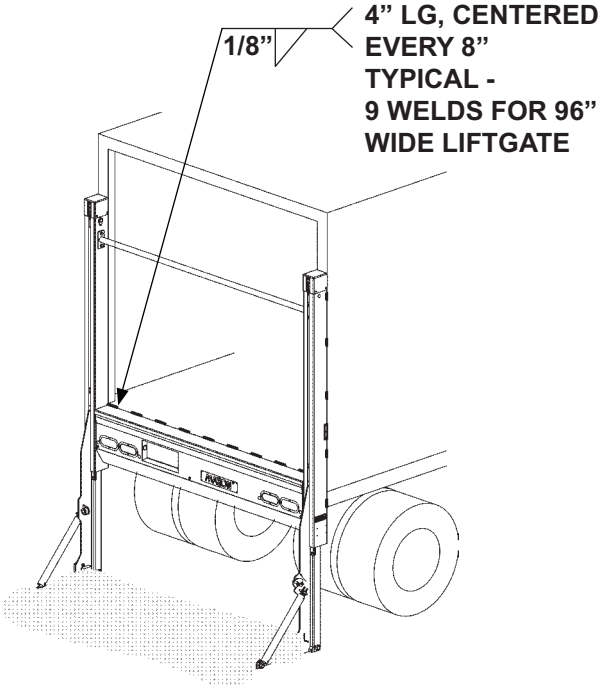
CAUTION

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

5. Make sure platform remains at ground level to provide access to top of housing.

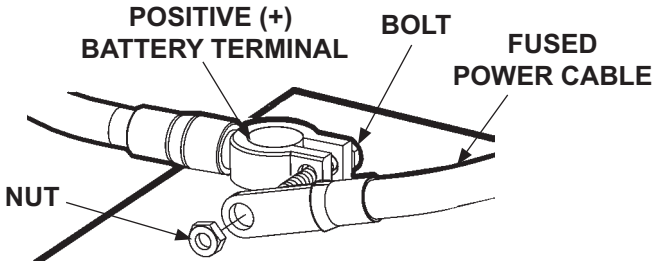
NOTE: After welding top of extension plate, if you see a gap between bottom of extension plate & vehicle body sill, fill the gap. To fill the gap, use A-36 General Purpose steel and the same welds shown in **FIG. 20-1**.

6. Weld the top of extention plate **(FIG. 20-1)** to vehicle body sill with 2” long welds centered every 8”.



WELDING TOP OF EXTENSION PLATE
FIG. 20-1

7. Remove nut from positive **(+)** battery terminal connector. Connect power cable to the positive **(+)** battery terminal connector **(FIG. 20-2)**. Reinstall and tighten nut.



RECONNECTING FUSED POWER CABLE
FIG. 20-2

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STEP 10 - REMOVE UPPER SUPPORT FIXTURE

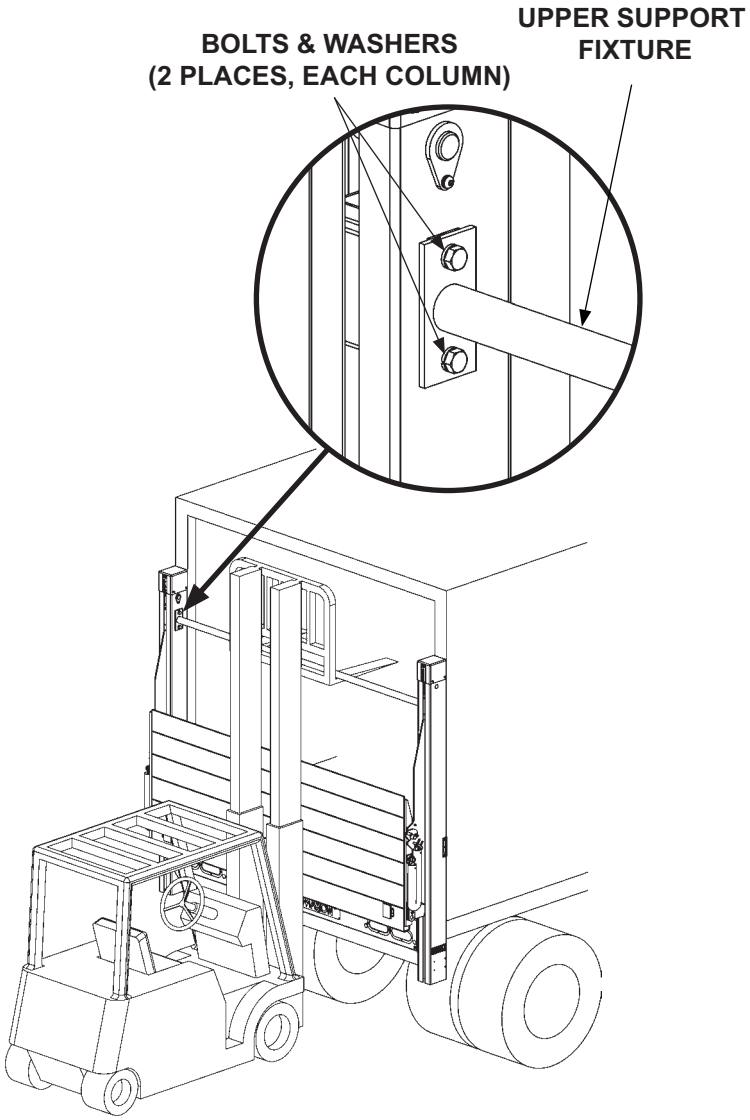
⚠ CAUTION

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

1. Stow the platform as shown in **FIG. 21-1**.

2. Position forklift or hoist to hold upper support fixture as shown in **FIG. 21-1**.

3. Unbolt the upper support fixture from the LH column **(FIG. 21-1)**. Repeat for RH column. Remove upper support fixture from work area.



UNBOLTING UPPER SUPPORT FIXTURE
(VIEW OF LH COLUMN AND SUPPORT FIXTURE)
FIG. 21-1

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ATTACH DECALS

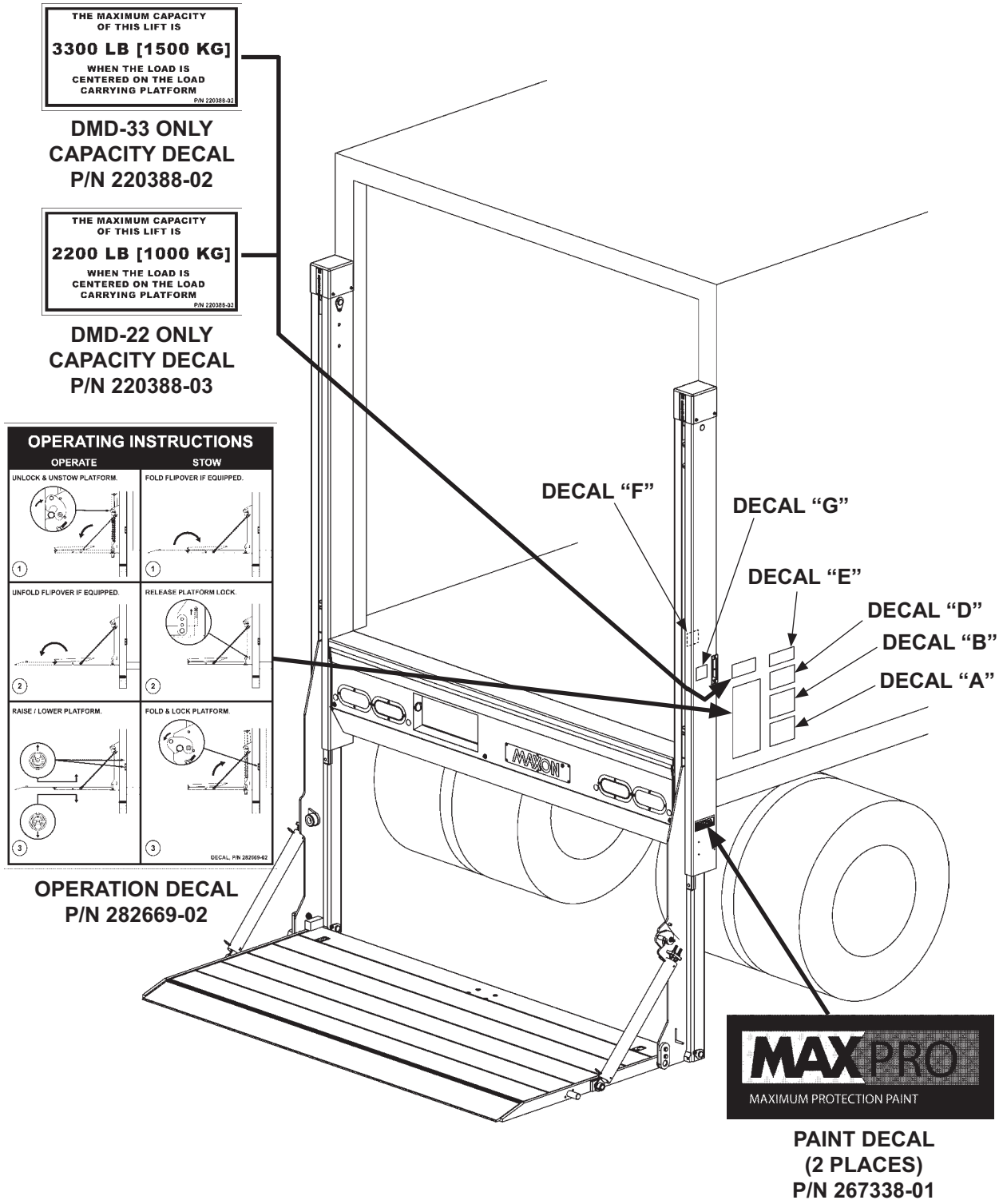

FIG. 22-1

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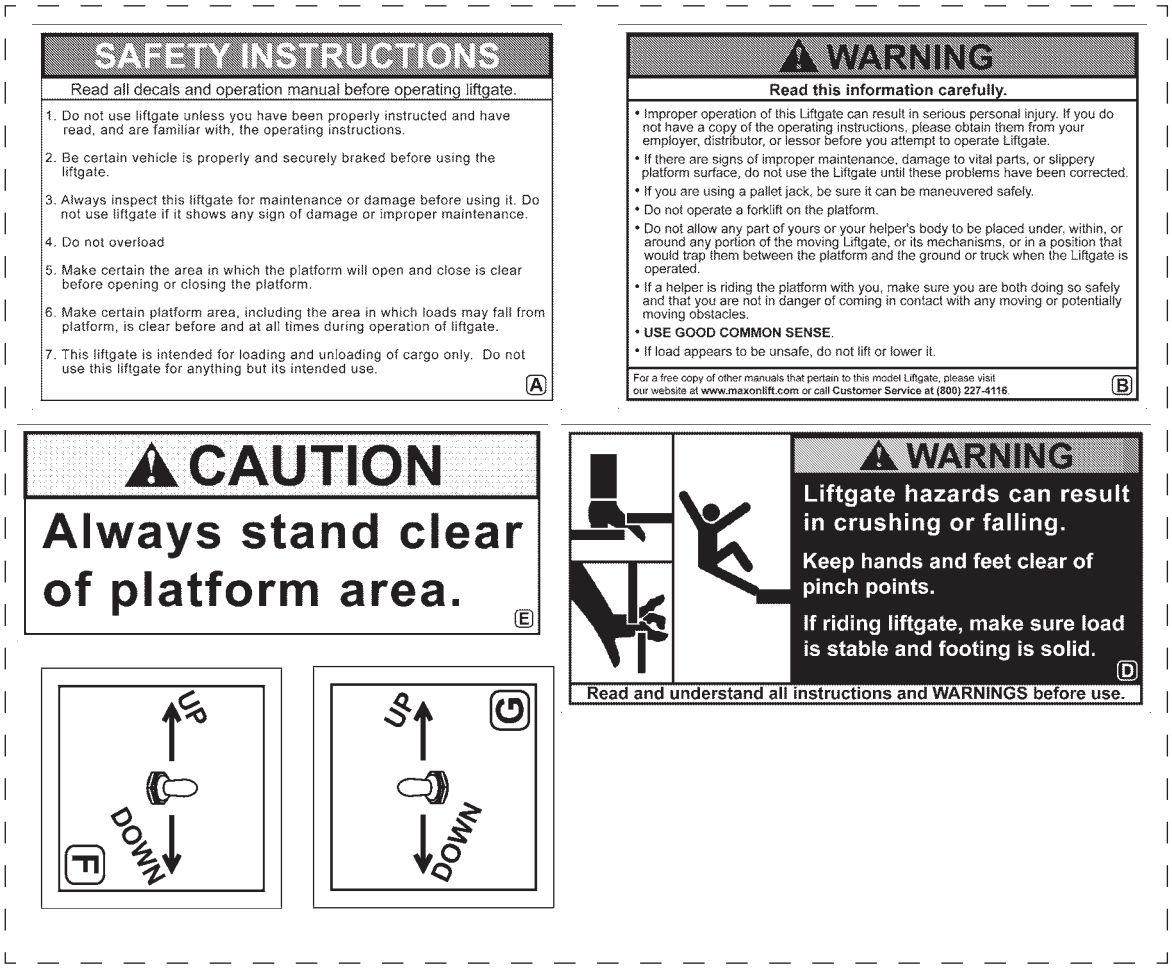
ATTACH DECALS - Continued



DECAL SHEET
P/N 284216-01
FIG. 23-1

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TOUCHUP PAINT

CAUTION

Damaged cylinder seals and contaminated hydraulic fluid can result from painting the polished portion of the cylinder rod. To prevent damage, protect the exposed polished portion of the cylinder rod while painting.

If bare metal or primer is exposed on the painted portions of the Liftgate, touch up the paint. To maintain the protection provided by the original paint system, **MAXON** recommends aluminum primer touchup paint kit, P/N 908134-01.

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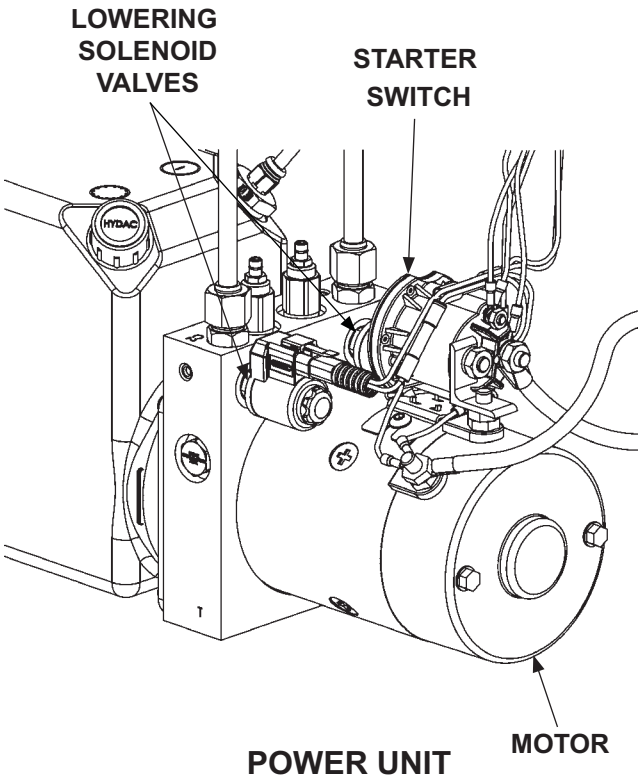
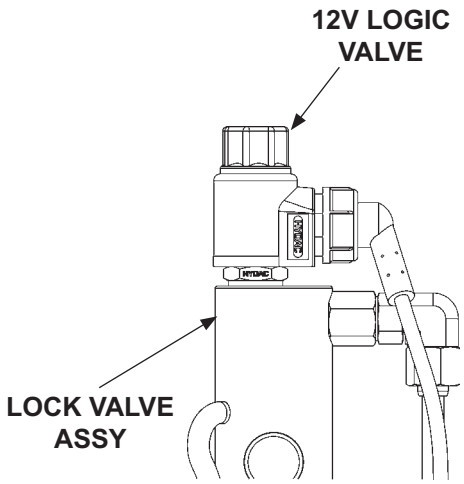
SYSTEM DIAGRAMS

PUMP MOTOR & VALVE OPERATION



POWER UNIT
FIG. 25-1



HYDRAULIC LOCK VALVE
(LH COLUMN CUT-AWAY SHOWING TOP OF LH CYLINDER)
FIG. 25-2

NOTE: Hydraulic lock valves located on LH and RH cylinders.

POWER UNIT MOTOR & SOLENOID OPERATION				
LIFTGATE FUNCTION	PORT	SOLENOID OPERATION (✓ MEANS ENERGIZED)		
		MOTOR	LOWERING SOLENOID VALVE	LOCK VALVE
RAISE	P	✓	-	✓
LOWER	T	-	✓	✓
REFER TO VALVES SHOWN ON HYDRAULIC SCHEMATIC				

TABLE 25-1

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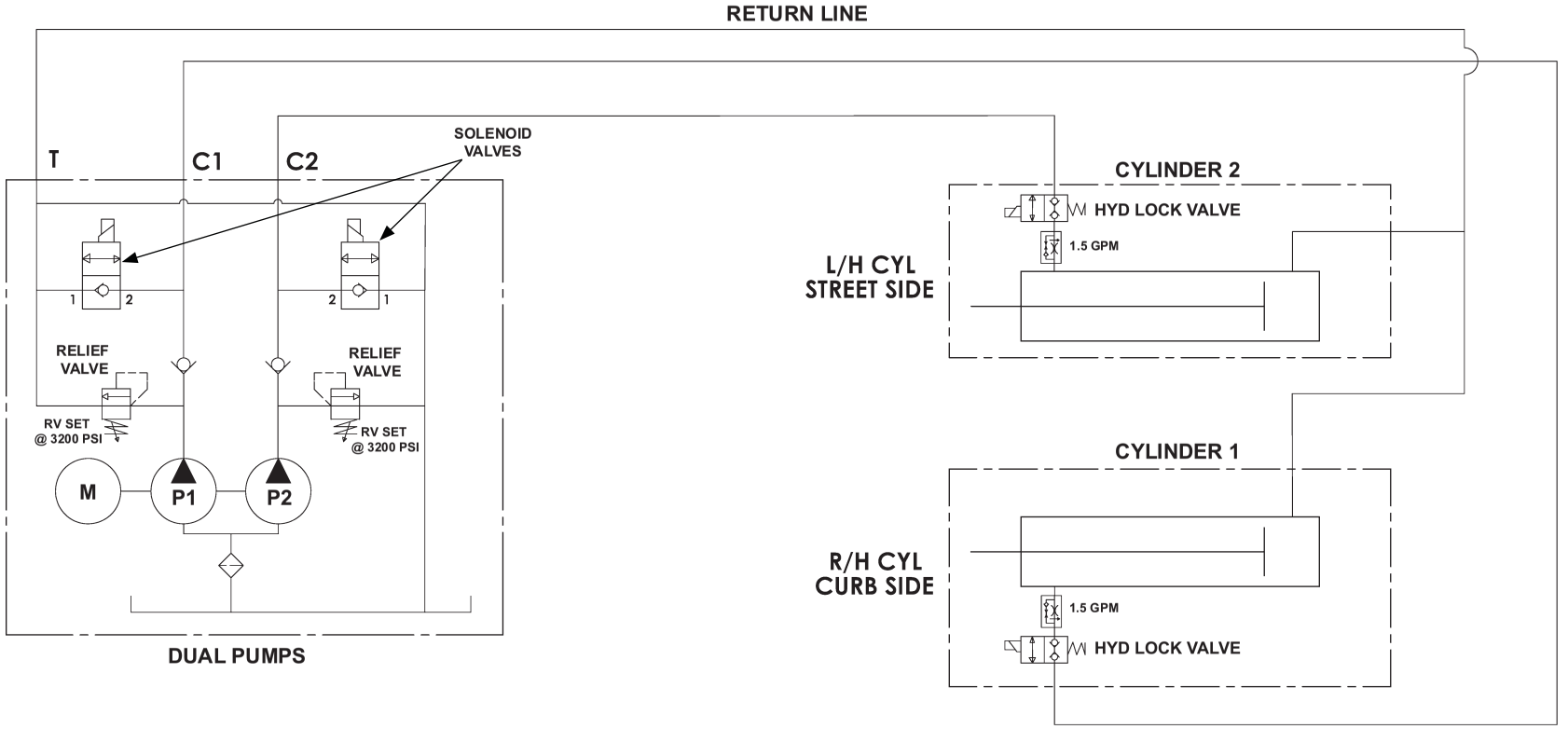
RETURN LINE
T
C1
C2
SOLENOID VALVES
1
2
2
1
RELIEF VALVE
RELIEF VALVE
RV SET @ 3200 PSI
RV SET @ 3200 PSI
M
P1
P2
DUAL PUMPS
CYLINDER 2
HYD LOCK VALVE
1.5 GPM
L/H CYL STREET SIDE
CYLINDER 1
R/H CYL CURB SIDE
1.5 GPM
HYD LOCK VALVE
HYDRAULIC SCHEMATIC

FIG. 26-1

ELECTRICAL SCHEMATIC

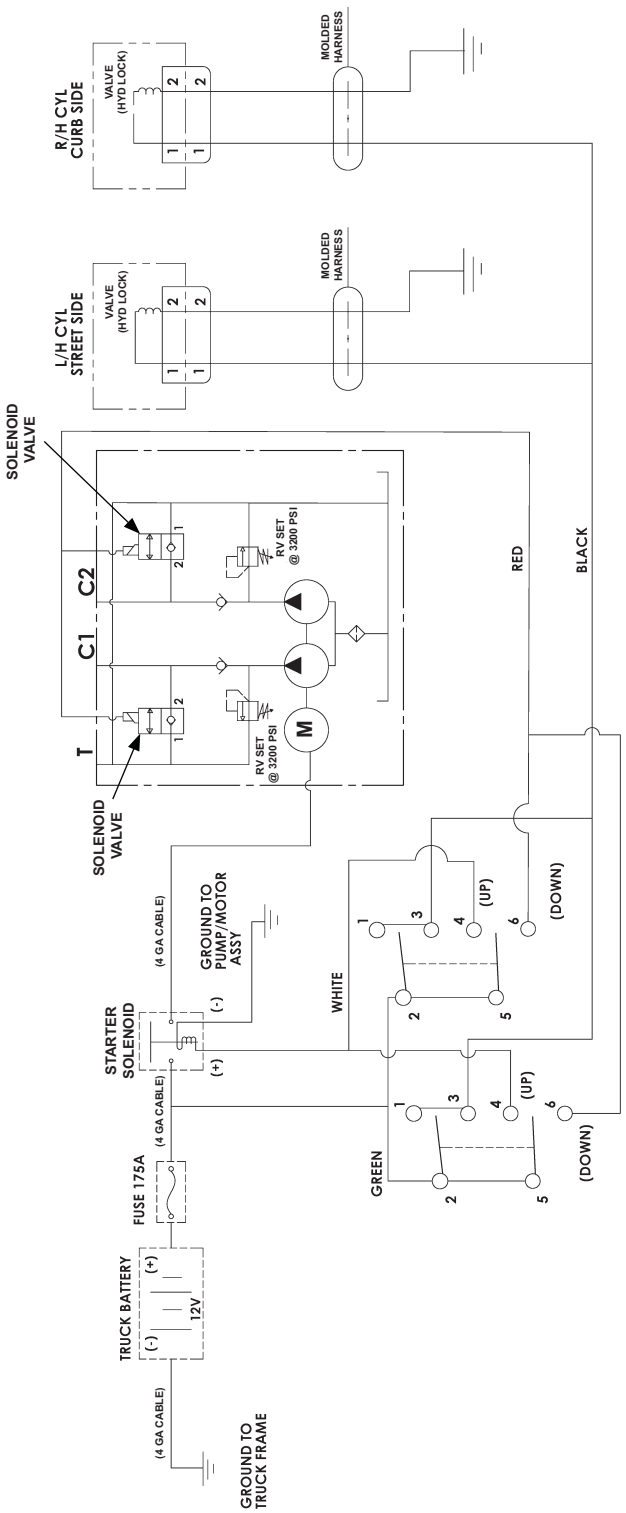

FIG. 27-1

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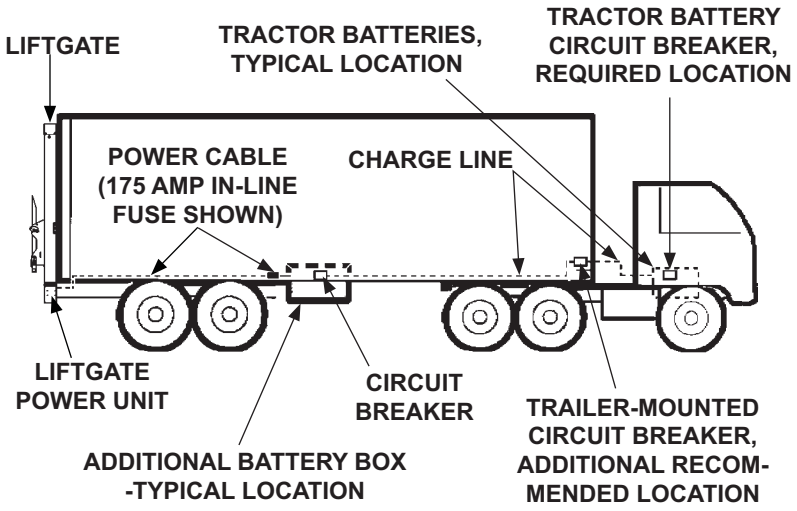
OPTIONS

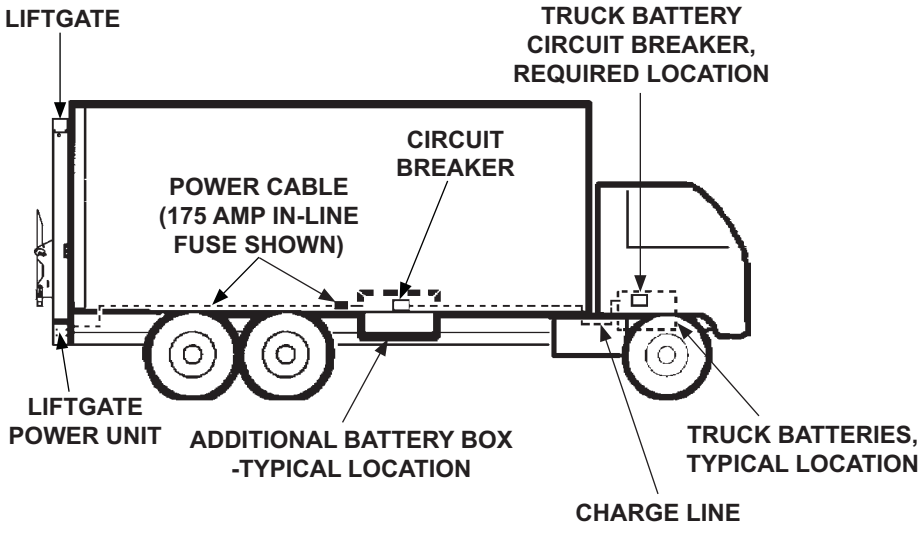
RECOMMENDED LIFTGATE POWER CONFIGURATION

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 and additional battery box are typically installed on trailers as shown in **FIG. 28-1** and on trucks as shown in **FIG. 28-2**. See the following page for battery and cable connections.



RECOMMENDED LIFTGATE & BATTERY BOX INSTALLATION ON TRAILER
FIG. 28-1



RECOMMENDED LIFTGATE & BATTERY BOX INSTALLATION ON TRUCK
FIG. 28-2

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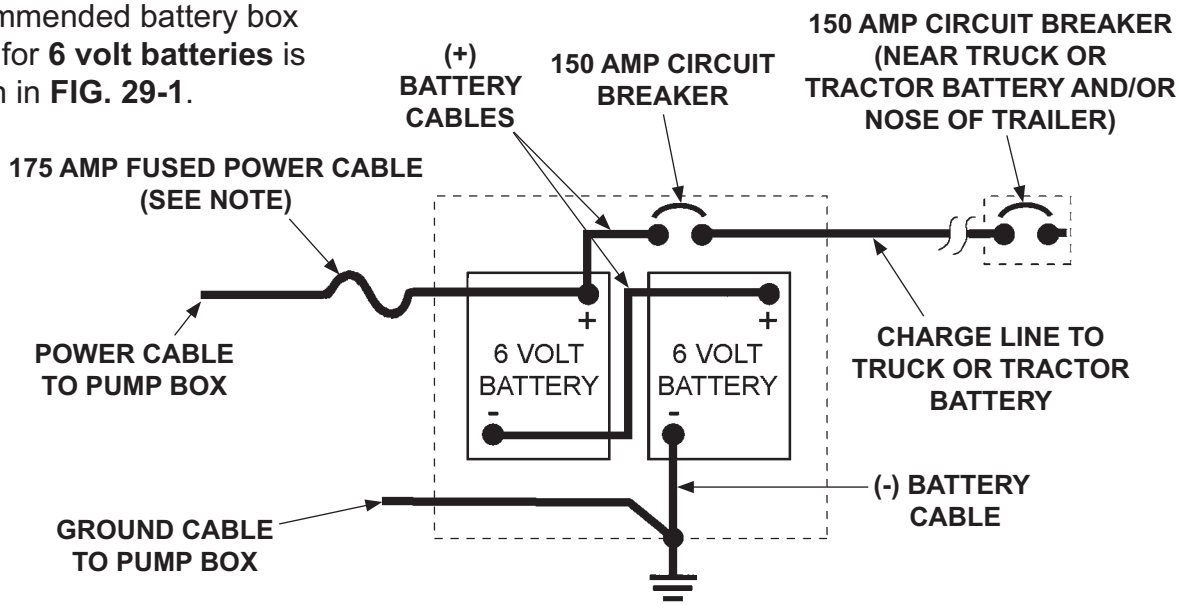
OPTIONS

RECOMMENDED LIFTGATE POWER CONFIGURATION - Continued

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

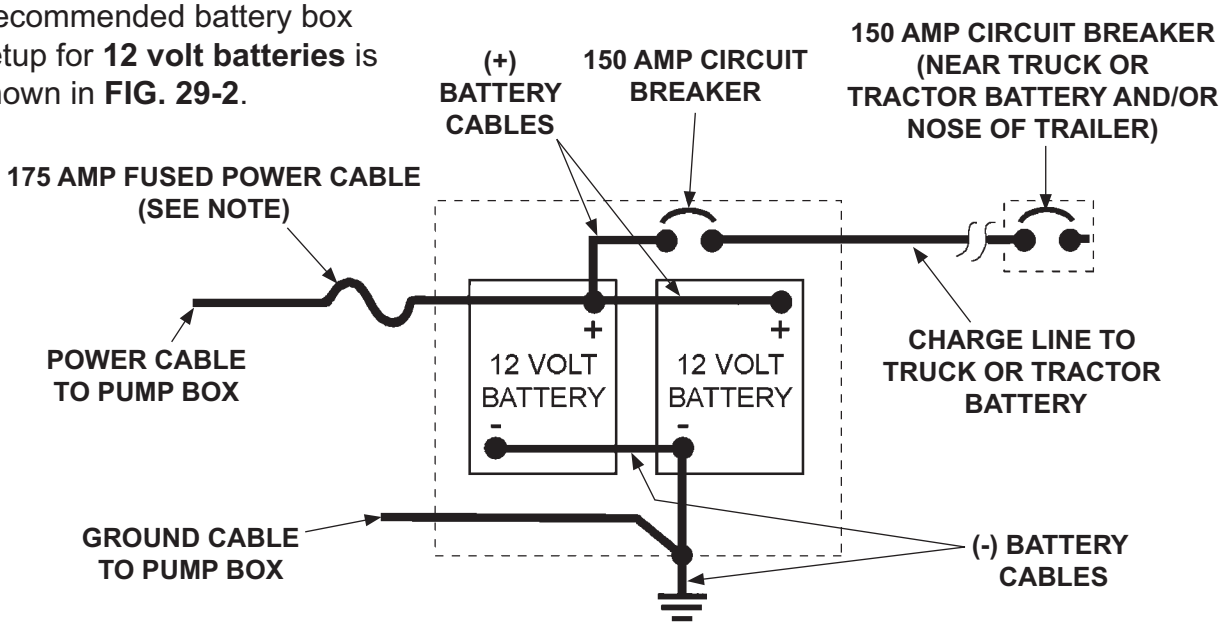
2. Recommended battery box setup for **6 volt batteries** is shown in **FIG. 29-1**.



6 VOLT BATTERY CONNECTIONS
FIG. 29-1

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

3. Recommended battery box setup for **12 volt batteries** is shown in **FIG. 29-2**.



12 VOLT BATTERY CONNECTIONS
FIG. 29-2

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