M-91-20 REV. A AUGUST 2003

INSTALLATION INSTRUCTIONS

SL-20 A SL-30 A

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11921 Slauson Avenue Santa Fe Springs, CA 90670

INTRODUCTION

THIS PUBLICATION CONTAINS THE INFORMATION REQUIRED TO INSTALL THE FOLLOWING MODELS AND THEIR OPTIONS; SL-20A & SL-30A WITH 2000 AND 3000 POUND CAPACITIES. IF THERE IS ANY DOUBT IN YOUR MIND 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.

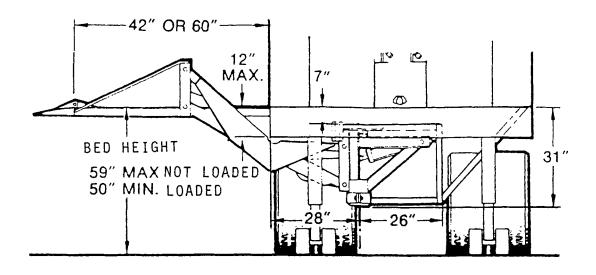
UNAUTHORIZED MODIFICATION TO THIS EQUIPMENT MAY CAUSE PREMATURE FAILURE OR CREATE HAZARDS IN ITS USE THAT ARE NOT FORESEEN AT THE TIME OF THE INSTALLATION. THESE KINDS OF CHANGES SHOULD BE DISCUSSED WITH OUR ENGINEERING DEPARTMENT BEFORE BEING UNDERTAKEN.

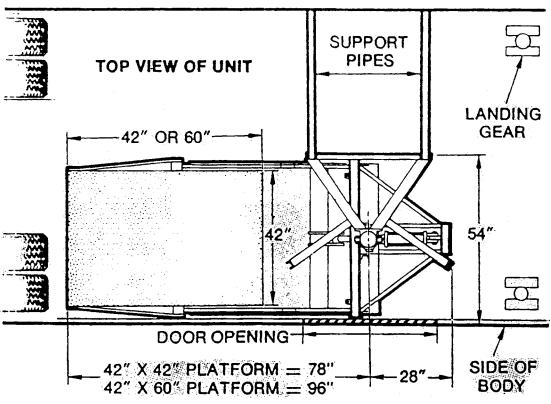
BED HEIGHT REQUIREMENTS TO GROUND ARE 50" LADEN TO 59" UNLADEN.

THESE LIFTS ARE DESIGNED FOR SIDE DOOR INSTALLATION.

CONTENTS

INSTALLATION OF STANDARD UNITPAGES 1 THRU 30

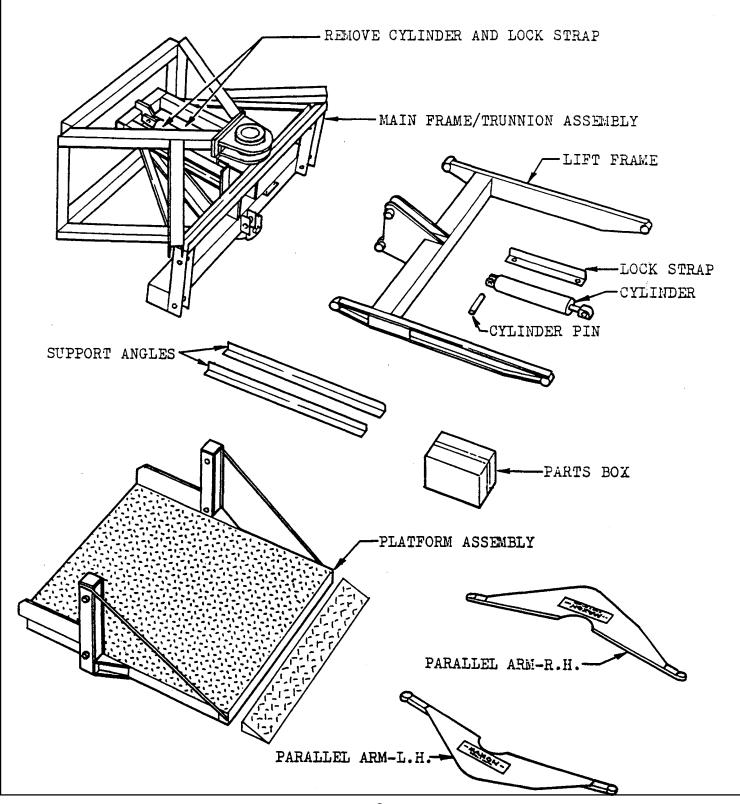


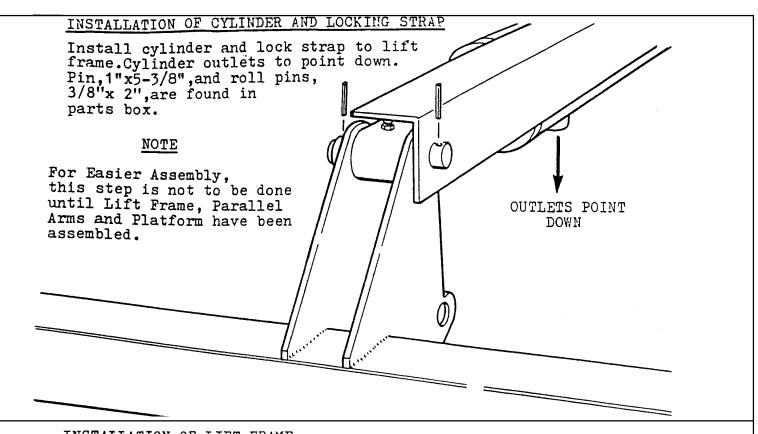


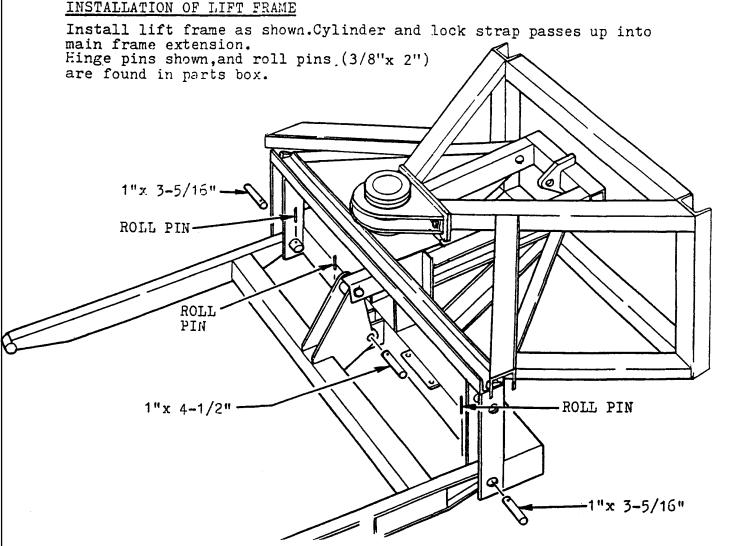
FIXED RAMP NOT INCLUDED IN 78" AND 96" DIMENSIONS.

INSTALLATION OF SUB-ASSEMBLIES

Break strapping and separate sub-assemblies.

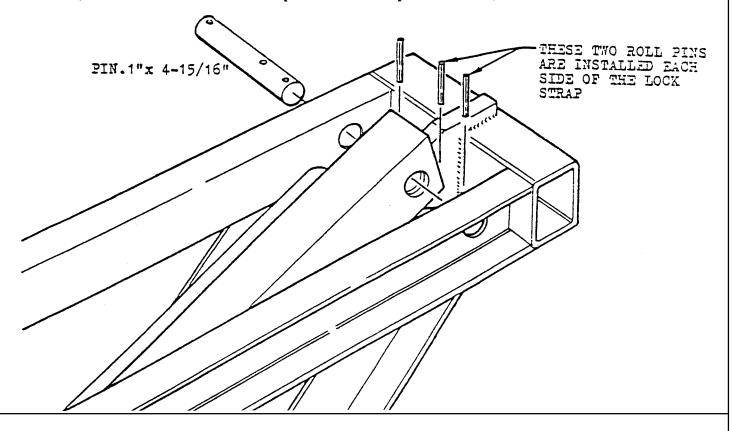






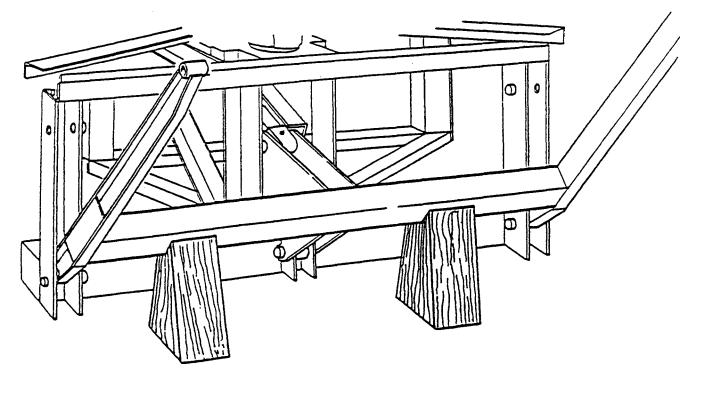
INSTALLATION OF CYLINDER- BUTT END

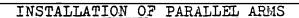
Install cylinder butt end with lock strap to cylinder frame. It will be necessary to raise lift frame to do this. Cylinder pin is 1"x 4-15/16". This pin was removed in Step 1.1. Roll pins are 3/8"x 2".



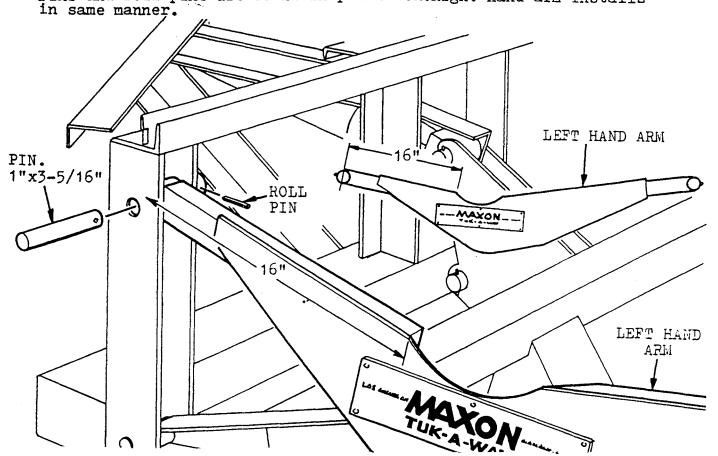
LIFT FRAME SUPPORT

It will make the platform installation a lot easier if the lift frame is supported in a manner suggested in the illustration.

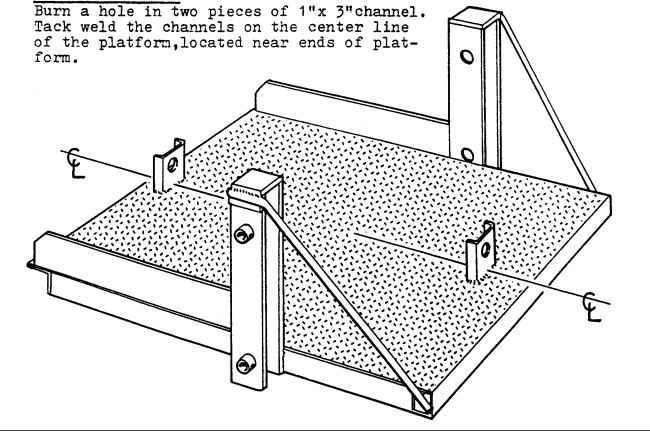


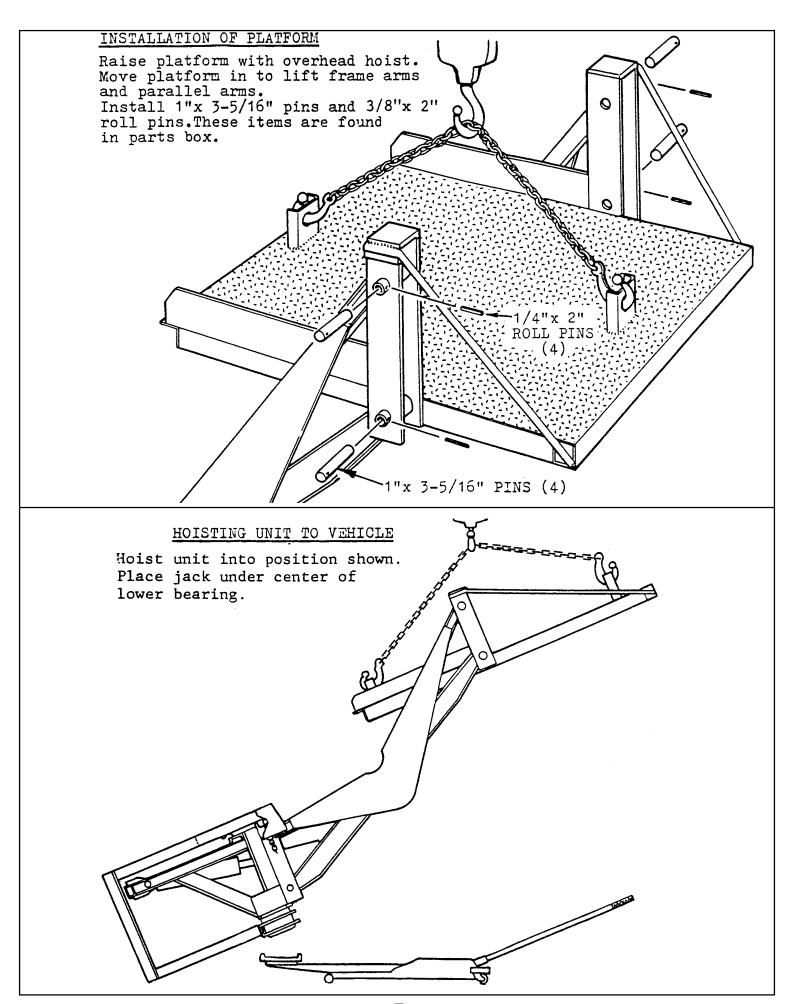


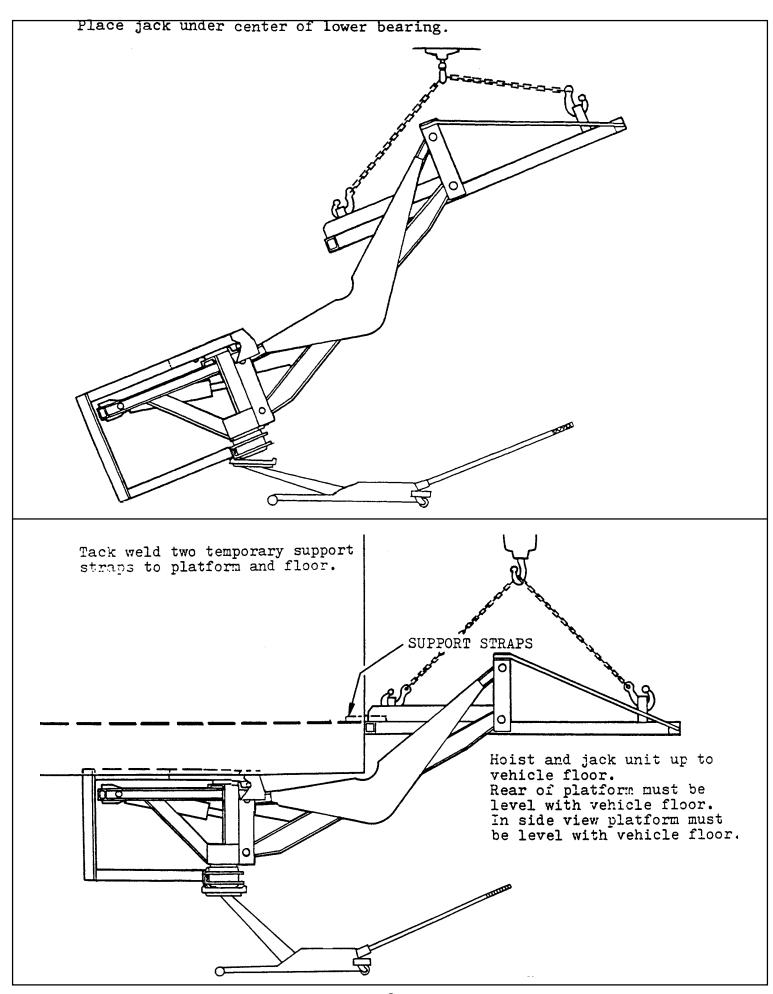
Parallel arms are installed as shown.LEFT HAND arm is illustrated. Pins and roll pins are found in parts box.Right hand arm installs in same manner



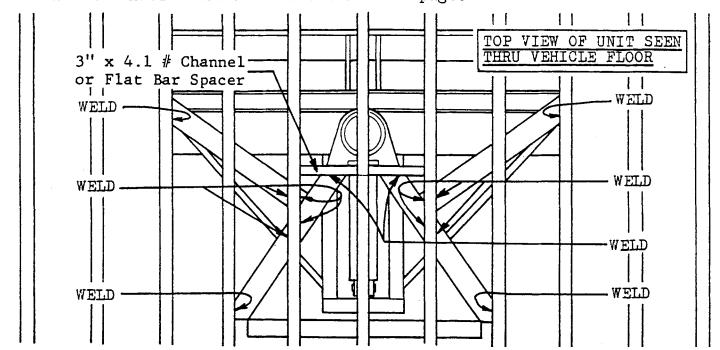
LIFTING CHANNELS



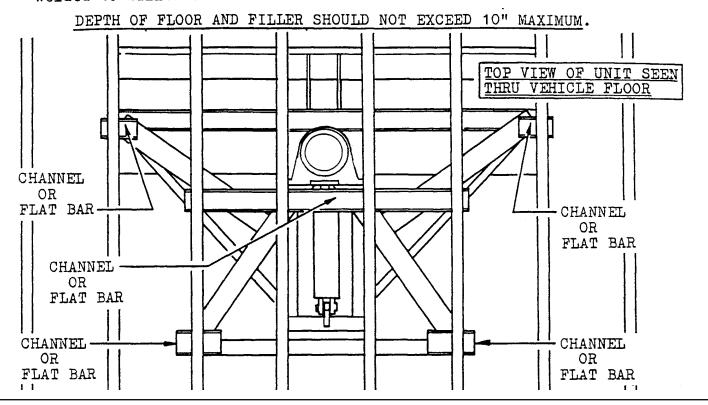


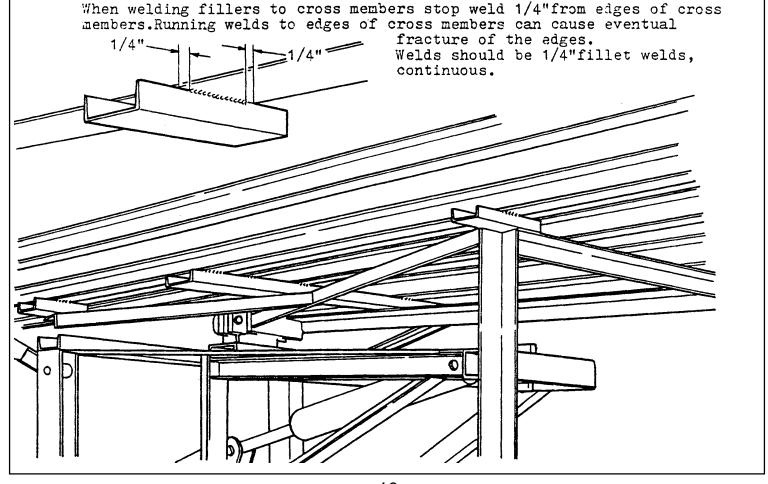


The ideal situation is to be able to weld the unit to vehicle cross members in at least six locations, as indicated below. Due to varying vehicle frame design this is not always possible. An alternative method is shown on next page.

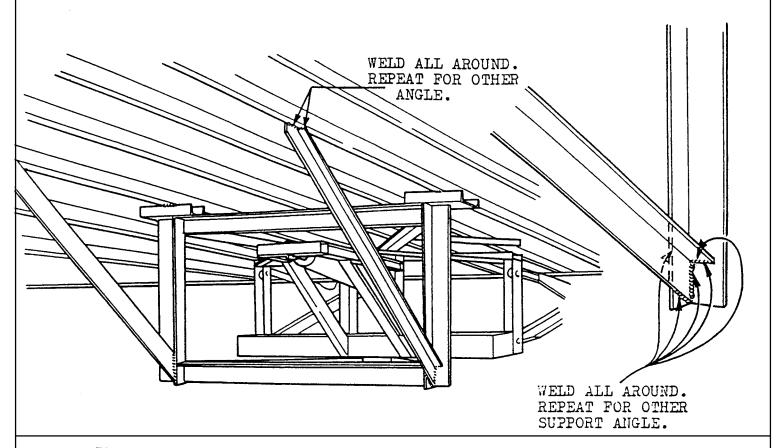


In cases where the unit does not touch the cross members fillers will have to be used to fill gap between unit and cross member. If the gap is large channels can be used. If gap is small flat bar stock is suitable. In both cases filler is welded to cross members and unit is welded to fillers. Welds should be 1/4"fillet welds, continuous.



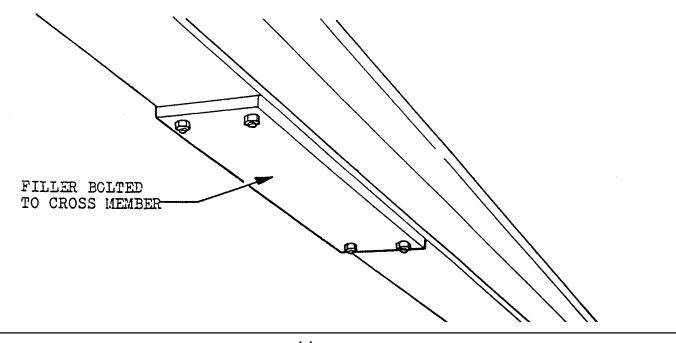


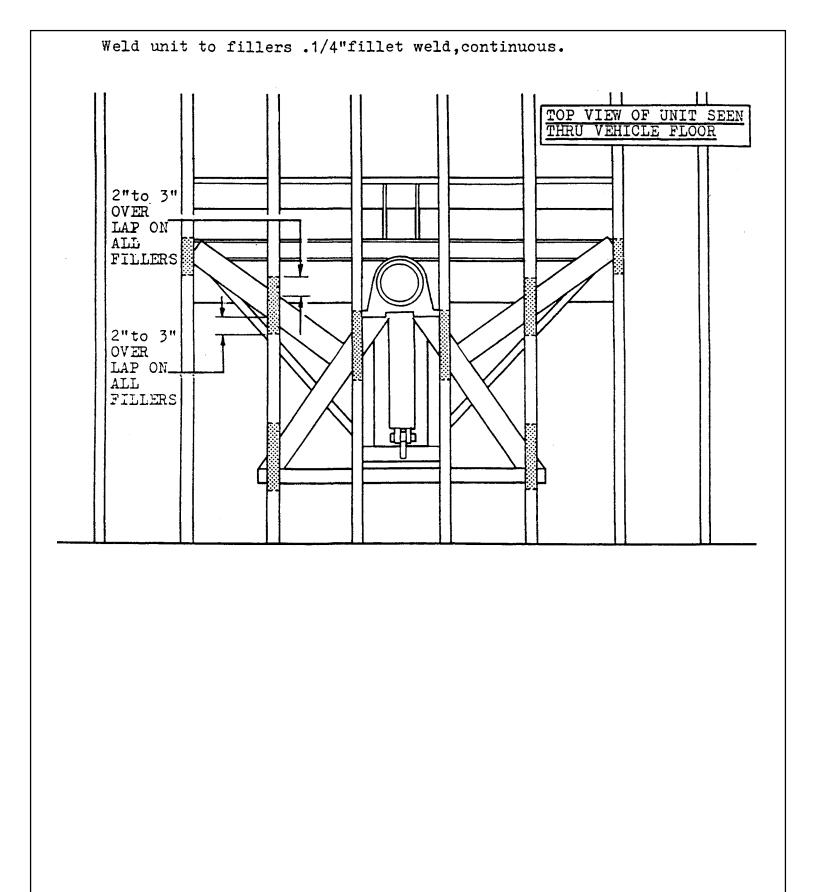
Weld support angles to bottom of trunnion assembly and to cross members both sides of unit. If support angles rise to a space between cross members a filler will be required between the two appropriate cross members. After welding filler to cross member weld support angle to filler.

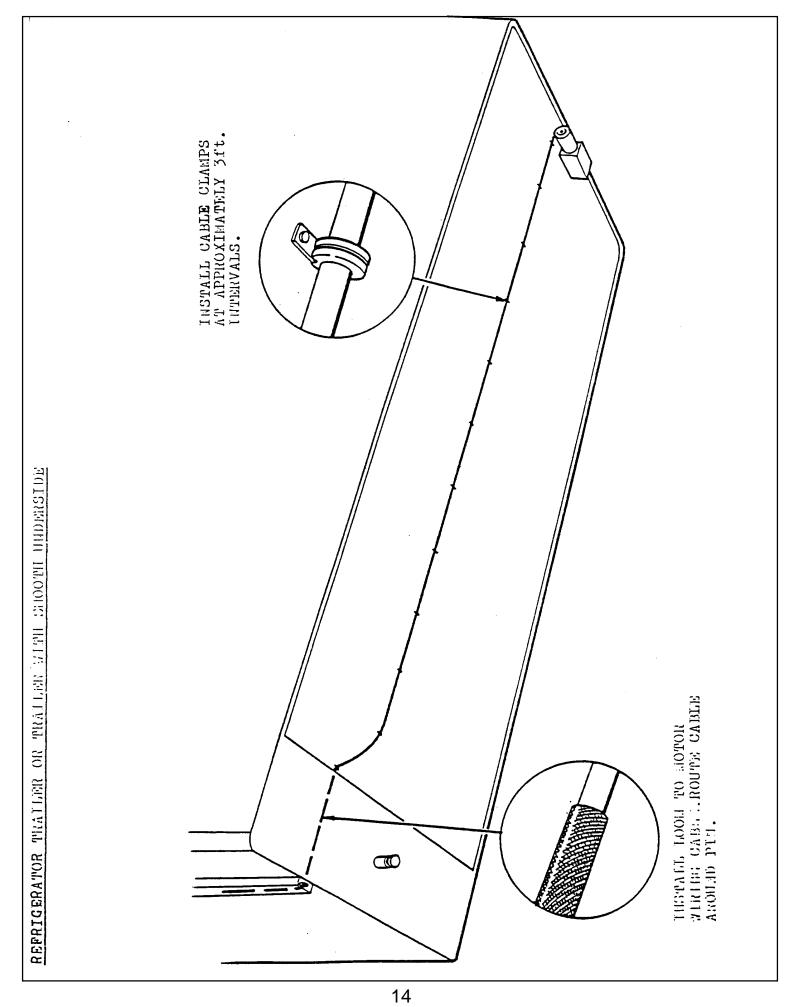


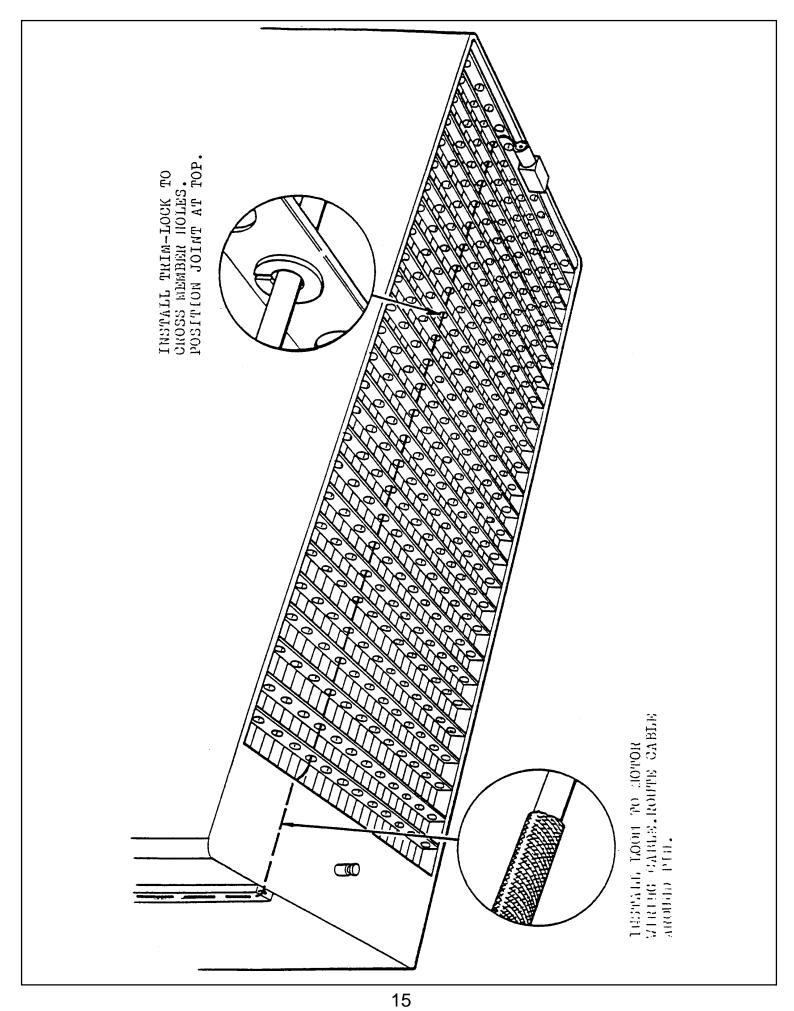
ALUMINUM FRAME VEHICLES

Steel fillers will need to be faoricated and bolted to the underside of the appropriate cross members to allow the unit to be welded to the fillers. The required number of fillers is shown on next page. The length of the fillers should be such as to allow a 2" to 3" over lap on that part of the unit to which they will be welded.







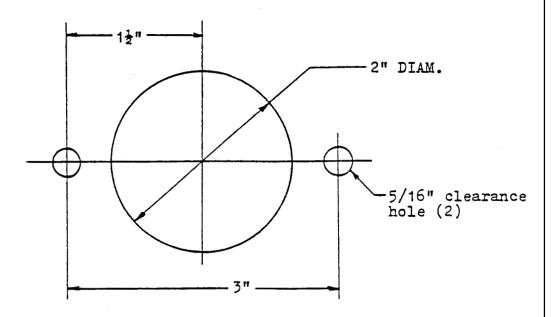


INSTALLATION OF TRAILER CONNECTOR ASSEMBLY (P/N 51001)

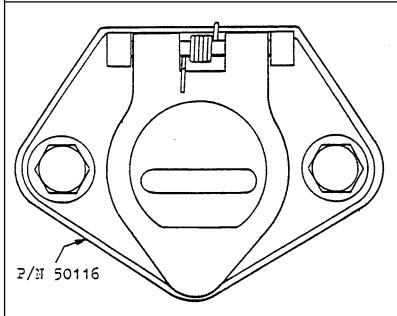
Consists of P/N 50115 and P/N 50116 Male and Female connectors.

The connector socket is installed to the front wall of the trailer. The location of the socket will depend upon the structure of the front wall and the disposition of any auxiliary services which may be already installed to the front wall. Select an area which allows the socket to be installed and wired from the rear.

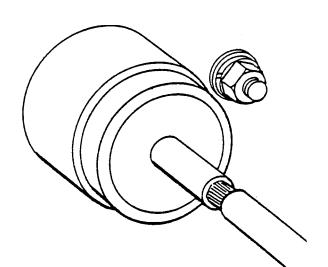
Female connector is self grounding when bolted to trailer.



Cut a hole in front wall to 2" diameter. The bolt holes (2) are 5/16" clearance. The bolts used are 5/16", the length to be determined by the structure of the front wall. Secure the bolts with 5/16" plain washers, lock washers and nuts.



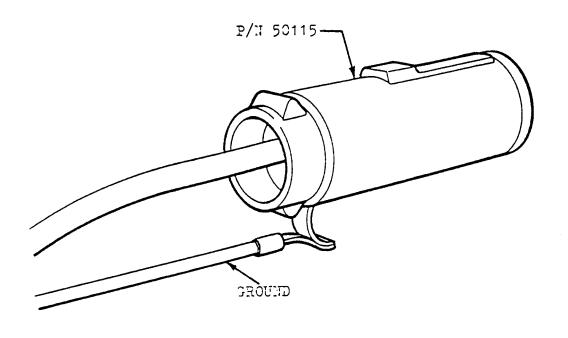
The socket is installed to the outside of the front wall as shown.



The #4 cable (supplied) is soldered into the rear of the socket. This cable is normally run thru to the pump switch on the lift gate.

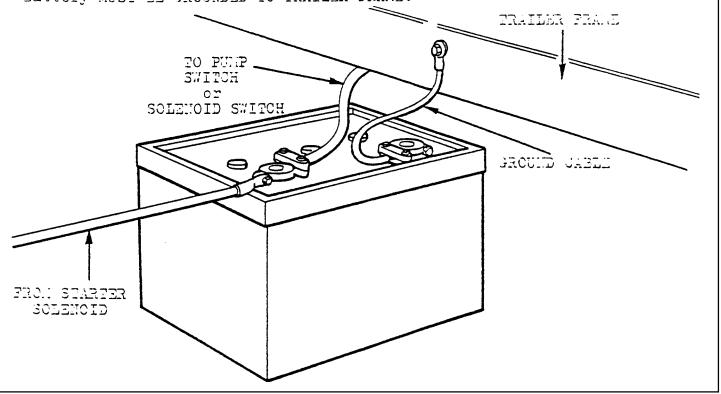
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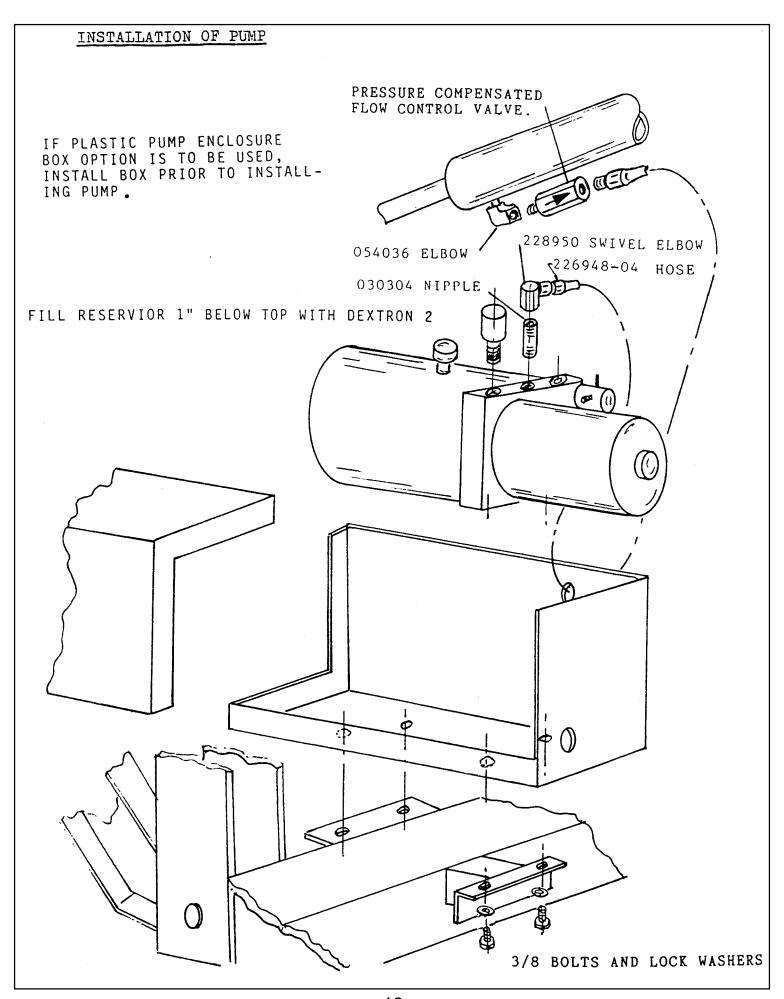
Male connector (P/N 50115) is wired thru to engine solenoid or battery HOT terminal.



TRAILER SECOND BATTERY

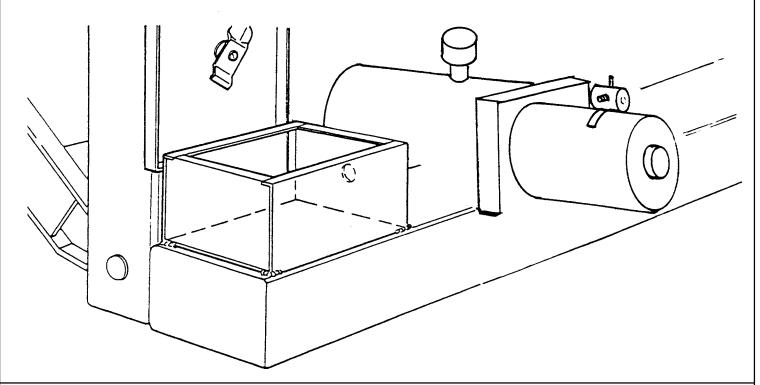
If using second battery HOT line from starter solenoid must be hooked up to HOT terminal on trailer battery and a cable installed from this terminal to pump switch (Manual control) or Solenoid switch (Remote control). Battery MUST BE GROUNDED TO TRAILER PRAME.

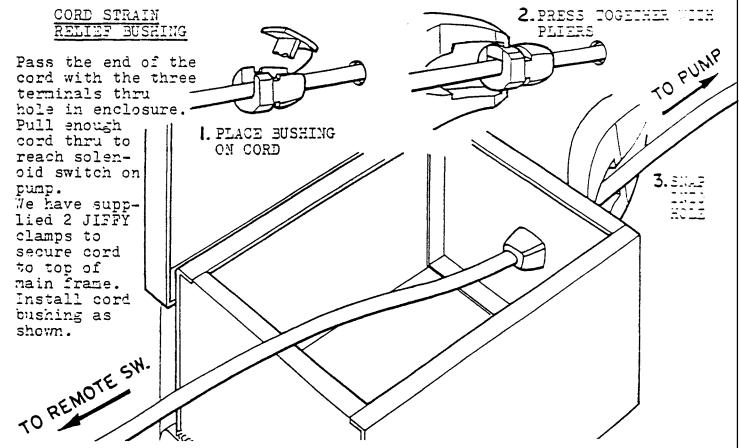




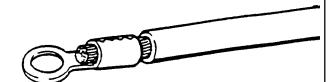
INSTALLATION OF ENCLOSURE ASSEMBLY

Enclosure assembly is found in parts box. If unit swings out from vehicle from LEFT to RICHT (COUNTERCLOCKWISE) the enclosure is installed on the RIGHT HAND END of the main frame. For a CLOCKWISE ROTATION it will be installed to the LEFT HAND END of the main frame. Weld four bottom corners of the enclosure to main frame.

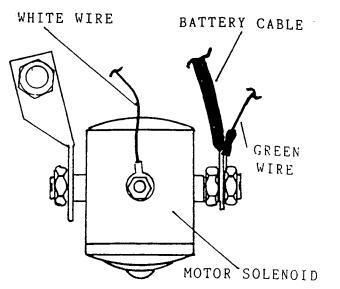




INSTALLATION OF MOTOR WIRING CABLE;

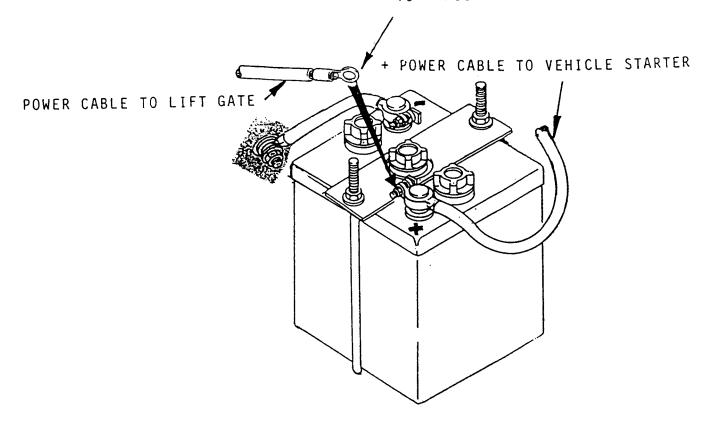


STRIP THE INSULATION FROM ONE END OF THE MOTOR WIRING CABLE AND INSTALL A CABLE END. CRIMP CABLE END SECURELY TO THE CABLE.

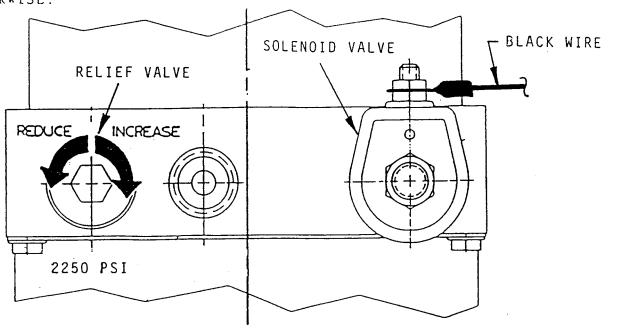


NOTE: SEE NEXT PAGE FOR INSTRUCTIONS TO INSTALL THE BLACK WIRE.

INSTALL CABLE END FITTING TO CABLE. ATTACH CABLE FITTING TO + POST OF BATTERY.



AFTER PUMP HAS BEEN INSTALLED AND POWER CABLE AND CONTROL WIRES HAVE BEEN CONNECTED, BUT BEFORE INSTALLING VALVE AND HOSE, THE RELIEF VALVE MUST BE ADJUSTED. ATTACH PRESSURE GAUGE TO PRESSURE PORT. SET, TURNING RELIEF VALVE CAP CLOCKWISE.

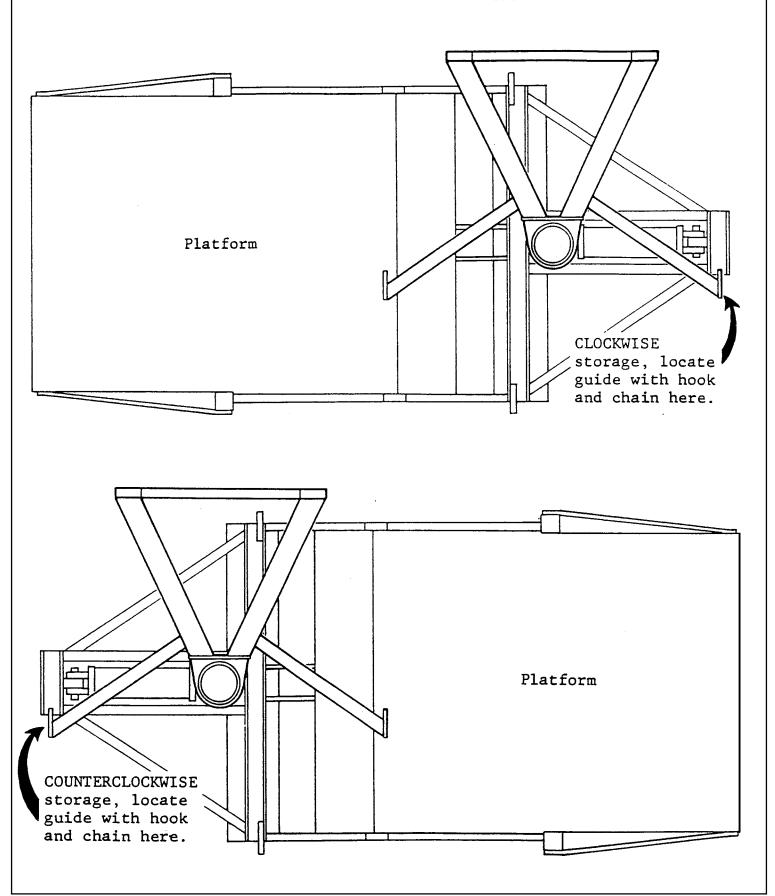


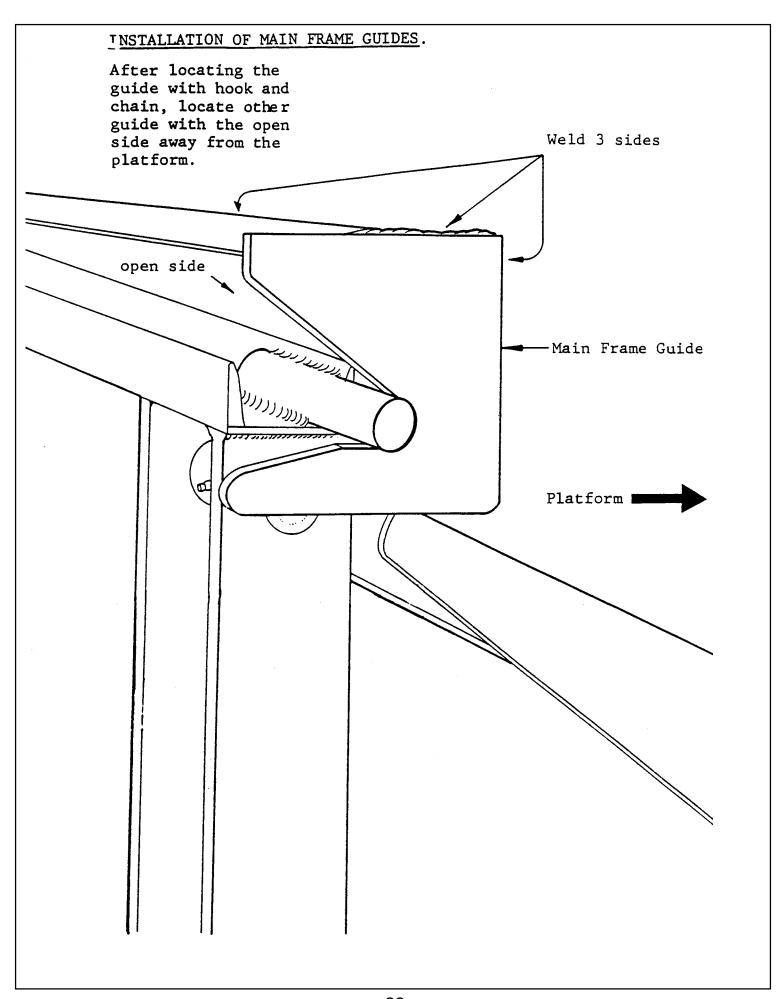
LOWERING PLATFORM TO GROUND

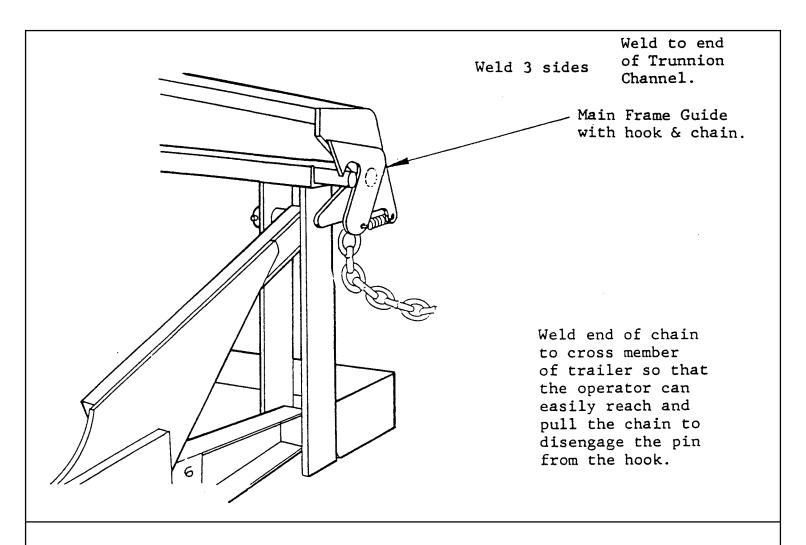
- 1. MOVE SWITCH TO UP POSITION. THIS WILL ALLOW PUMP TO FILL THE HOSE AND CYLINDER WITH OIL. YOU WILL HEAR THE SYSTEM BEING FILLED UNDER PRESSURE. WHEN YOU NO LONGER HEAR THE OIL CIRCULATING UNDER PRESSURE, RELEASE SWITCH. THE SYSTEM IS NOW FULL AND READY FOR OPERATION.
- 2. REMOVE THE LOCK STRAP FROM CYLINDER PINS.
- 3. LOWER AND REMOVE JACK FROM UNDER MAIN FRAME.
- 4. UN-HOOK HOIST FROM CHANNEL ON TOP OF PLATFORM.
- 5. STANDING CLEAR OF PLATFORM, MOVE SWITCH TO DOWN POSITION TO LOWER PLATFORM TO GROUND.
- 6. BURN OFF HOIST LOOP FROM TOP OF PLATFORM.
- 7. RAISE AND LOWER PLATFORM SEVERAL TIMES TO CHECK THE OPERATION OF THE UNIT.

INSTALLATION OF MAIN FRAME GUIDES.

Platform may be pushed under truck in a clockwise or counterclockwise direction. Locate Main Frame Guides as shown below.

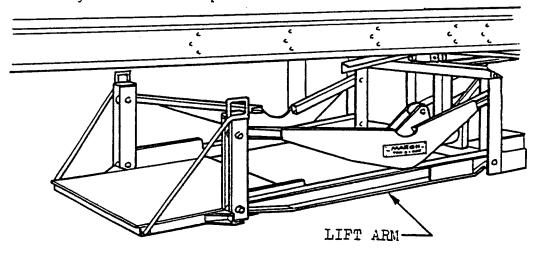






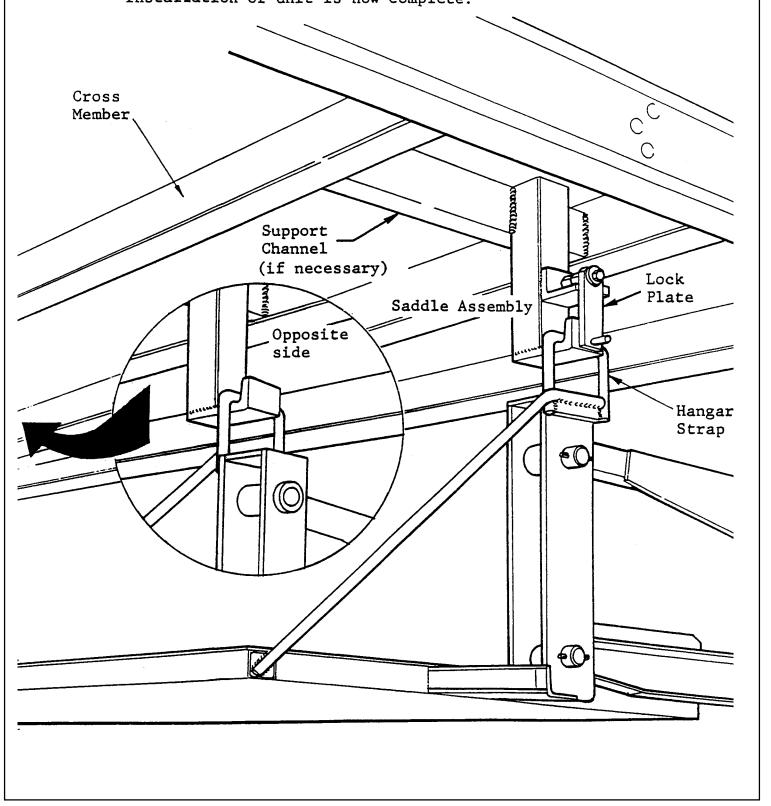
INSTALLATION OF SADDLE ASSEMBLY

Stand clear of platform. Operate remote switch toggle to RAISE position. When platform is about 2 feet off the ground release toggle. Pull on chain to open latch. Hold latch open and push on parallel arm with other hand. When latchpin clears latch, release chain and push unit under vehicle. When unit has swiveled 90° and is parallel to vehicle body, stop unit in that position. Operate toggle switch to RAISE position and release when lift arm is approximately parallel to ground. Saddle assembly is found in parts box.



Raise Lock Plate and place Saddle Assembly under hangar strap. Lower Lock Plate. Saddle Assembly should be welded to a cross member if possible. If not possible then cut a piece of channel to fit between two cross members. Channel is then welded to cross members and Saddle Assembly is welded to channel (shown below) Both sides of Saddle Assembly must be welded, either to channel or to cross member (if this is possible).

1/8" fillet weld, 3" long. both sides.
Installation of unit is now complete.



DECAL

An URGENT WARNING decal is found in parts box.

Decal MUST be located on side of vehicle close to point where unit will be operated. Operator must have a clear view of decal. When area has been selected, clean area thoroughly before applying decal.

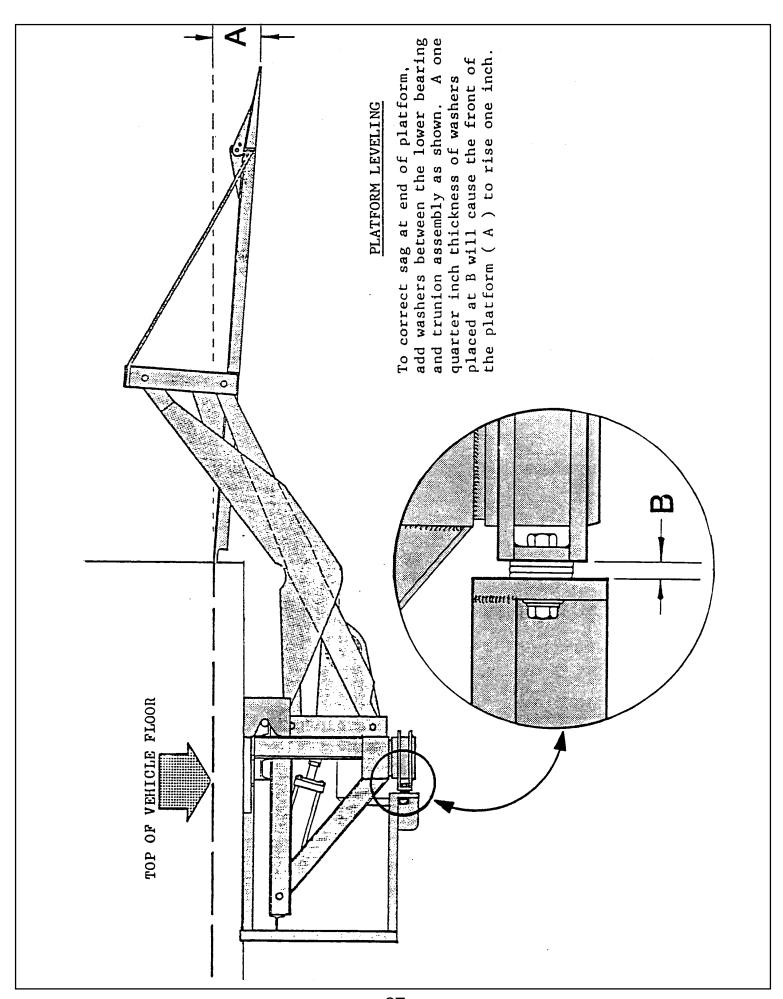
Decal is pressure sensitive. Peel off backing strip, place in position on cleaned surface and burnish down hard.

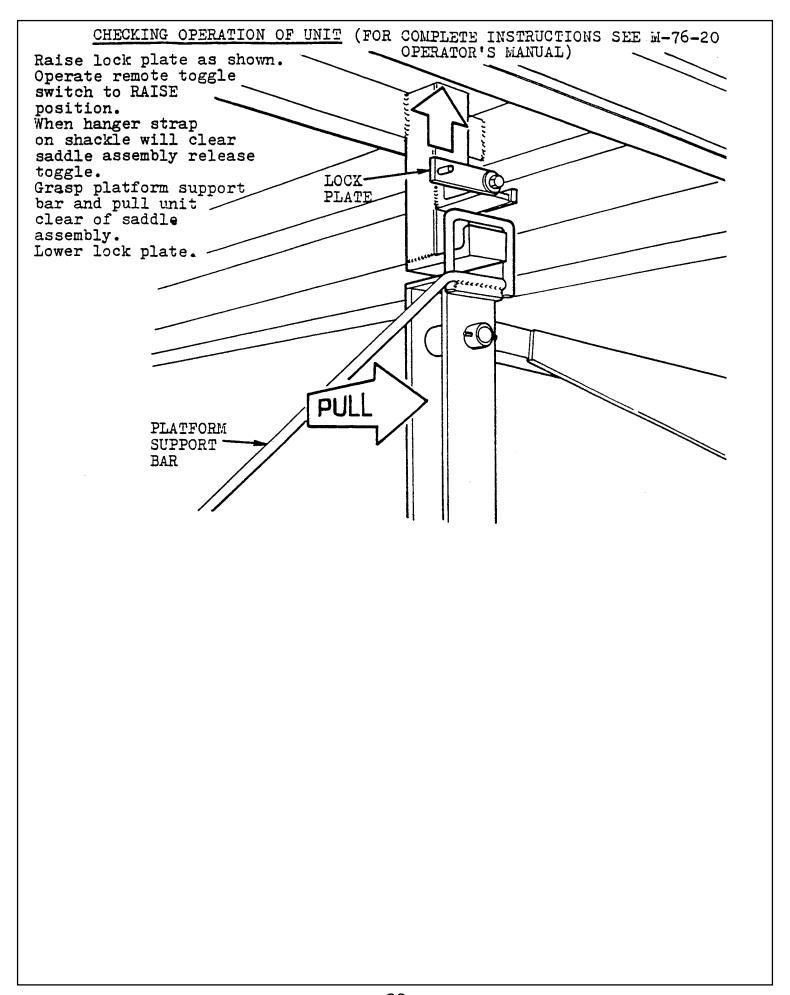
URGENT WARNING ELEVATING GATE INSTRUCTIONS

Before Operating Lift. Be Sure You Understand

- Improper operation of this lift can result in serious personal injury. Do
 not operate unless you have been properly instructed and have read,
 and are familiar with the operating instructions. If you do not have a
 copy of the instructions please obtain them from your employer, dis
 tributor, or lessor, as appropriate, before you attempt to operate the lift
- Be certain the vehicle is properly and securely braked before using the lift.
- Always inspect this lift for maintenance or damage before using it. If there are signs of improper maintenance, damage to vital parts, or slippery platform surface, do not use the lift. Do not attempt your own repairs, unless you are specifically trained.
- 4. Do not overload. See the Mfg. Literature for the rated load. Remember that this limit applies to both raising and lowering operations.
- Each load should be placed in a stable position as near as possible to the center of the platform.
- Never stand in or move through or allow anyone else to stand in or move through the area in which the lift may operate or into which an upset load might fall.
- 7. This is not a passenger lift. Do not ride the lift with unstable loads or in such a manner that a failure would endanger you. The lift is not equipped with a back-up system to prevent falling in the event of a failure.

Member, ELEVATING TAILGATE DIVISION A DIVISION OF TRUCK BODY and EGUIPMENT ASSOCIATION, INC.





Using remote control switch and standing clear of platform and its moving parts operate toggle to RAISE position. When platform reaches bed height release toggle. Continued operation of switch at this time will overload pump motor and cause it to burn out.

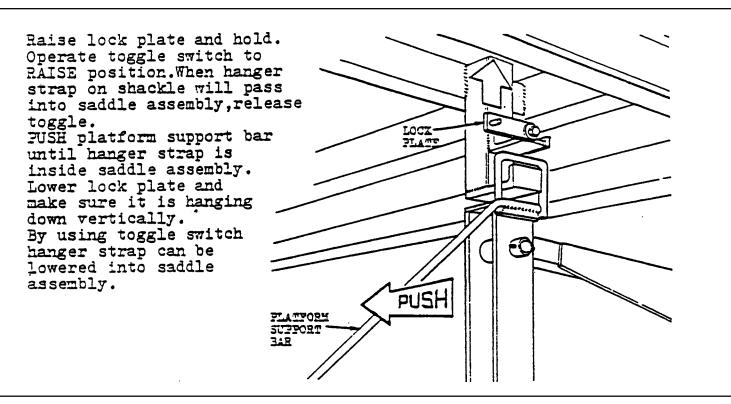
Move toggle to LOWER position. When platform touches ground release

toggle.

Raise and lower platform several times. Watch and listen for parts which may be binding. An application of grease on the surfaces which bind usually clears the problem.

Operate toggle switch to RAISE position. When platform is about 2 feet

off ground release toggle.



SAFETY CHAIN

Safety chain is welded to support channel or cross member at one end. Other end is secured around Lift Frame Arm as shown. Vehicle can now be moved.

