

HOUSTON, TEXAS WWW.LIFTMOORE.COM
PHONE: (713) 688-5533 • FAX: (713) 688-6324
FAX: (800) 824-5559 (USA & CANADA)

Installation Instructions

Model 206 & LA6K Series

P/N 22571

ATTENTION!

KEEP THIS MANUAL WITH THE CRANE. OPERATION INSTRUCTIONS ARE CONTAINED IN A SEPARATE MANUAL. NEW OPERATORS SHOULD READ AND BE FAMILIAR WITH THE OPERATING INSTRUCTIONS BEFORE OPERATING THIS CRANE.

ORDER PARTS USING PART NUMBER, CRANE MODEL NUMBER AND CRANE SERIAL NUMBER TO ASSURE ACCURACY OF ORDERS.

MODEL 206 & LA6K INSTALLATION INSTRUCTIONS

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MODEL 206 & LA6K INSTALLATION INSTRUCTIONS

Read this complete section before starting the crane installation.

Before installing make sure you have all necessary parts. Please refer to the Owner's manual Section 4-1 for the list of parts required for installation. Report any shortages to Liftmoore, Inc. immediately.

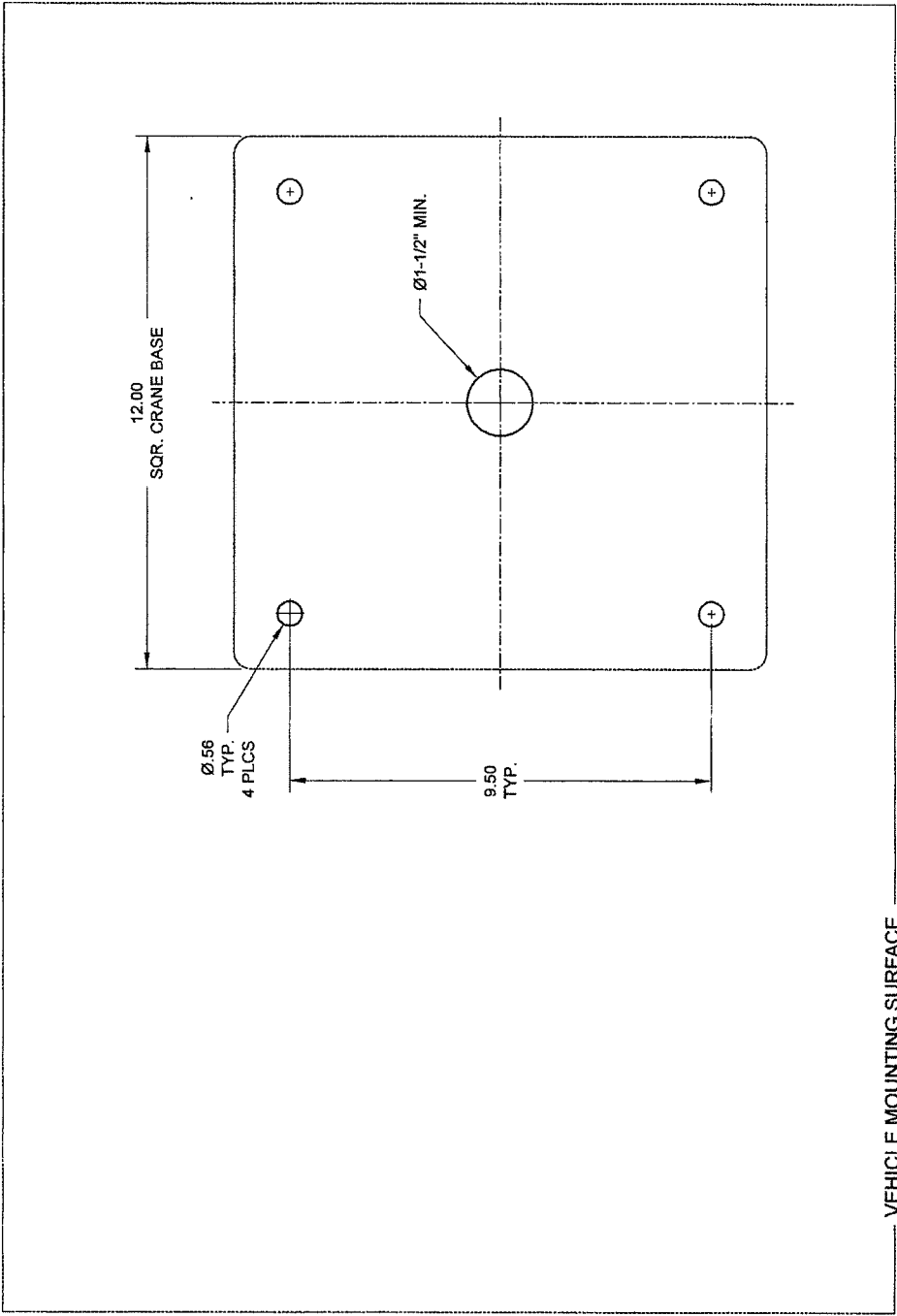
1. The mounting must be adequate to support the load and moment rating for the crane as listed:
206 - 2,000 Lbs. Maximum Load; 6,500 Ft.- Lbs. Moment Rating
LA6K- 2,000 Lbs. Maximum Load; 6,500 Ft.- Lbs. Moment Rating
For truck mounting the crane must be mounted on a structure that will carry the loads to both sides of the truck frame. Sample mounting instructions are available from Liftmoore upon request.
2. Layout the mounting holes for the crane as shown in the drawing No. 50495 in this manual. The base plate for this crane is 12" square and 5/8" thick with holes for four 1/2" bolts on a 9.5" square pattern. Drill four 9/16" mounting holes to match the 9.5" square pattern. Cut a minimum 1.5" hole in the center of the mounting to clear the power supply wire that projects through the base plate. Bolt the crane onto the truck using the 1/2" x 2-3/4" Grade 8 bolts supplied. If longer bolts are required, at least Grade 8 quality is needed. Tighten the 1/2" Grade 8 bolts to 120 Ft.-Lbs. Other bolts can be used if they are at least Grade 8 strength and no less than 1/2" diameter.
3. A manual disconnect switch with mounting bracket and terminals is provided with the crane. This switch will act as the main power disconnect for the crane. Removing power from the crane during periods of non-use will help to increase the life of the crane's electrical components. The switch should be mounted as near as possible to the crane and in a position which will facilitate its use. Determine the appropriate mounting position for the switch and use the supplied terminals to splice in to the crane's main power cable. We recommend that this be below the welding connector supplied with the crane. Drawing No. 50377 illustrates where we recommend installing the disconnect switch, welding connector and circuit breaker.
4. The vehicle's battery should have a capacity of at least 90 Amp Hr. A second battery located near the crane is **STRONGLY** advised. This will keep the voltage as near 12 Volts as possible while the crane is running. The life of the crane's electrical components will be longer if the voltage is as near 12 volts as possible. A deep cycle battery provides the best battery life. Connect the second battery in parallel with the truck's original equipment battery using at least No. 1 battery wire.
5. Install the 150 Amp circuit breaker near the battery supplying the crane and on the battery's positive line with a universal or marine type wing nut lug terminal. This breaker is to protect the battery in event of an accidental grounding of the positive wire anywhere along its length. Use a section of the wire and the terminals supplied to connect between the battery and the circuit breaker. See drawing No. 50377.
6. Run the No. 1 battery cable along the inside of the chassis frame to the circuit breaker if a second battery is not used. Make sure that the cable is protected avoiding sharp edges and heat sources such as the muffler or catalytic converter. Use loom for protection whenever the cable passes through the body, frame or other metal objects. The quick disconnect under the crane must be accessible. Always leave this disconnected to take the crane out of the electrical circuit when it is not in use.



MODEL 206 & LA6K INSTALLATION INSTRUCTIONS, Cont.

7. Install the extra ground wire supplied from the negative battery terminal to the truck's main frame. Grounding the battery to the frame protects the chassis wiring. Leave the regular ground to the engine as is. The battery end of both wires can be clamped together using a universal type battery connector. This ground must be in place to protect the truck's wiring and for efficient operation of the crane. A good ground must exist for the crane to work. Leaving this ground wire off can damage the truck chassis wiring as it may then carry some of the crane circuit's current. This wire must be as large as the battery lead wire for the system to operate efficiently.
8. A boom support must be installed to secure the boom when the truck is moved. Mount an eye on the boom rest for the hook as shown in Liftmoore's Accessories bulletin. The wire rope can then be used to secure the boom in the rest.
9. An outrigger or jackstands must be installed to keep the truck and the crane as level as possible under all expected working conditions. Keeping the crane level reduces the loads on the rotation gear. This will also protect the truck's springs, axle and wheels when heavy loads are suspended from the crane.
10. Additional truck springs may be necessary depending upon the size of the truck and location of the crane on the truck. Add springs to bring the truck level after all equipment is mounted.
11. The crane is now ready to use. Read the Operating Instructions section of the Owner's Manual before operating the crane. When operating the crane for the first time, run the cylinders through their full extension cycle to purge any air from the cylinder. Operate the crane to assure complete operation of all functions.
12. Place these Installation Instructions and the Owner's Manual with Operating Instructions in a convenient place for the user to find and use before operating the crane.
13. When complete, turn off the crane power switch and disconnect the welding connector.





VEHICLE MOUNTING SURFACE

NOTE: ALL HOLES DRILLED THRU



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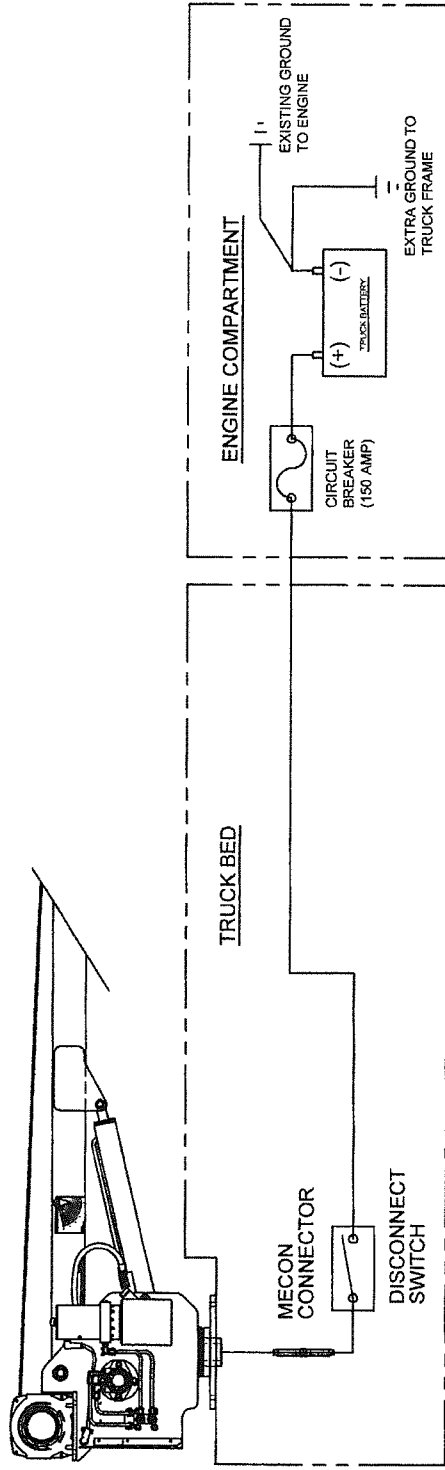
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PATTERN, CRANE MOUNT 206

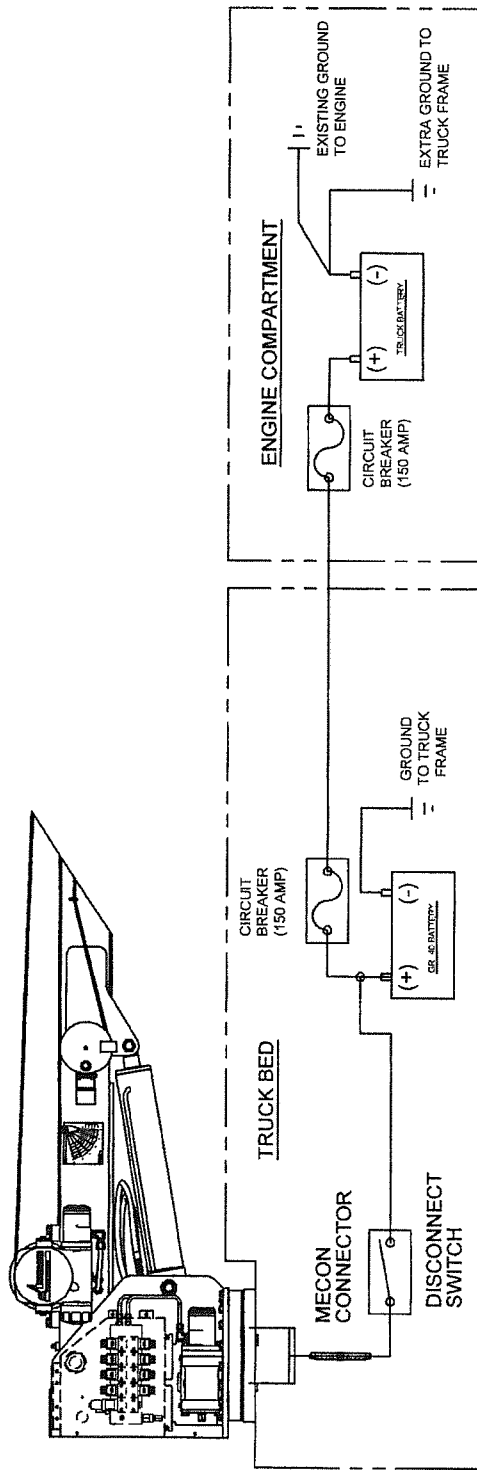
DRAWING NO.

50495-0

SUGGESTED WIRING SCHEMATIC FOR 2700AR AND SMALLER CRANE INSTALLATION:



SUGGESTED WIRING SCHEMATIC FOR 3200 AND LARGER CRANE INSTALLATION:



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DRWN BY: JC
DATE: 06/03/08

SCHEM, CRANE ELEC. INSTAL-ELEC
FOR ELECTRIC CRANES

DRAWING NO.

50377-B

