

MODEL 8045 INSTALLATION INSTRUCTIONS

Read and understand these instructions completely before starting the work.

Before installing make sure you have all necessary parts. Please refer to the Owner's manual Section 6-1 for the list of parts required for installation. Report any shortages to Liftmoore, Inc. immediately.

1. The mounting surface for the crane must be capable of supporting the rated moment and maximum load of the crane listed below:

8045 CRANE	45,000 Ft.-Lbs.	8,000 Lbs.
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2. Layout the mounting holes for the crane as shown in the drawing No. 50653. Cut the center hole for the crane swivel as shown on this drawing. Mount the crane with four 7/8-14" Grade 8 quality.

3. A manual disconnect switch with mounting bracket and terminals is provided with the crane. This switch will act as the main electric power disconnect for the crane. Removing power from the crane during periods of non-use will 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 into the crane's main power cable. Drawing No. 50948 illustrates how to install the disconnect switch and fuse.

4. Install the 30 Amp fuse, which is supplied with the crane, near the battery on the positive line. This fuse is to protect the wiring in event of an accidental grounding. Use a section of the wire and the terminals supplied to connect between the battery and the circuit breaker. See drawing No. 50948.

5. Run the 10 Ga. battery cables (red and black wires) along the inside of the chassis frame to the battery. Connect the (+ red wire) battery cable to the in-line fuse and the (- black wire) to the negative terminal with the terminals provided. See that the cable is protected. Avoid sharp edges and heat sources such as the muffler or catalytic converter. Use loom for protection whenever the cable passes through the body. On continuous rotation models, use the terminal supplied with the wires and connect the cables to the mating terminal underneath the crane located between the pipe nipples in the center of the swivel. See dwg No. 50948.

6. Be certain that the battery is grounded to the truck chassis. A good tight ground connection must exist for the crane to work.

7. Hydraulic Component Installation: The following description applies to Liftmoore's Hydraulic Installation Drawing No. 50026.

These cranes require a pump driven by the vehicle's engine. Pumps can be either Power Take Off or Fan Belt drive. For best, smoothest operation the pump needs to supply 8 GPM at 3,000 PSI with the engine at 1,000 RPM.

Do not use pumps that will deliver more than 8 GPM at engine speed. 10 GPM is the maximum flow acceptable to the valves in the crane. If a larger pump is installed on the vehicle for other functions, use a pressure compensated flow control valve to restrict the flow to the crane as required above.

A wire control or solenoid throttle advance can be used to increase the engine speed. Liftmoore can supply a solenoid throttle advance kit (Part No. 32592) that includes a control switch to be mounted near the crane. On engines with electronic throttles, the solenoid throttle advance cannot be used, check with the dealer for throttle advance information. Engine speed, start and stop control can be included in the pendant control box if ordered.

A reservoir of at least 25 gallon capacity is recommended. Reservoir capacity will need to be enlarged for increased running time. For run times of 15 minutes or less the 25 gallon capacity is adequate. For longer duty cycles the reservoir size should be increased. stop control can be included in the pendant control box if ordered.

HOUSTON, TEXAS
 FAX: (800) 824-5559 (USA & Canada)
 FAX: (713) 688-6324
 PHONE: (713) 688-5533
 www.liftmoore.com



MODEL 8045 INSTALLATION INSTRUCTIONS, Cont.

These cranes require a pump driven by the vehicle's engine. Pumps can be either Power Take Off or Fan Belt drive. For best, smoothest operation the pump needs to supply 8 GPM at 3,000 PSI with the engine at 1,000 RPM.

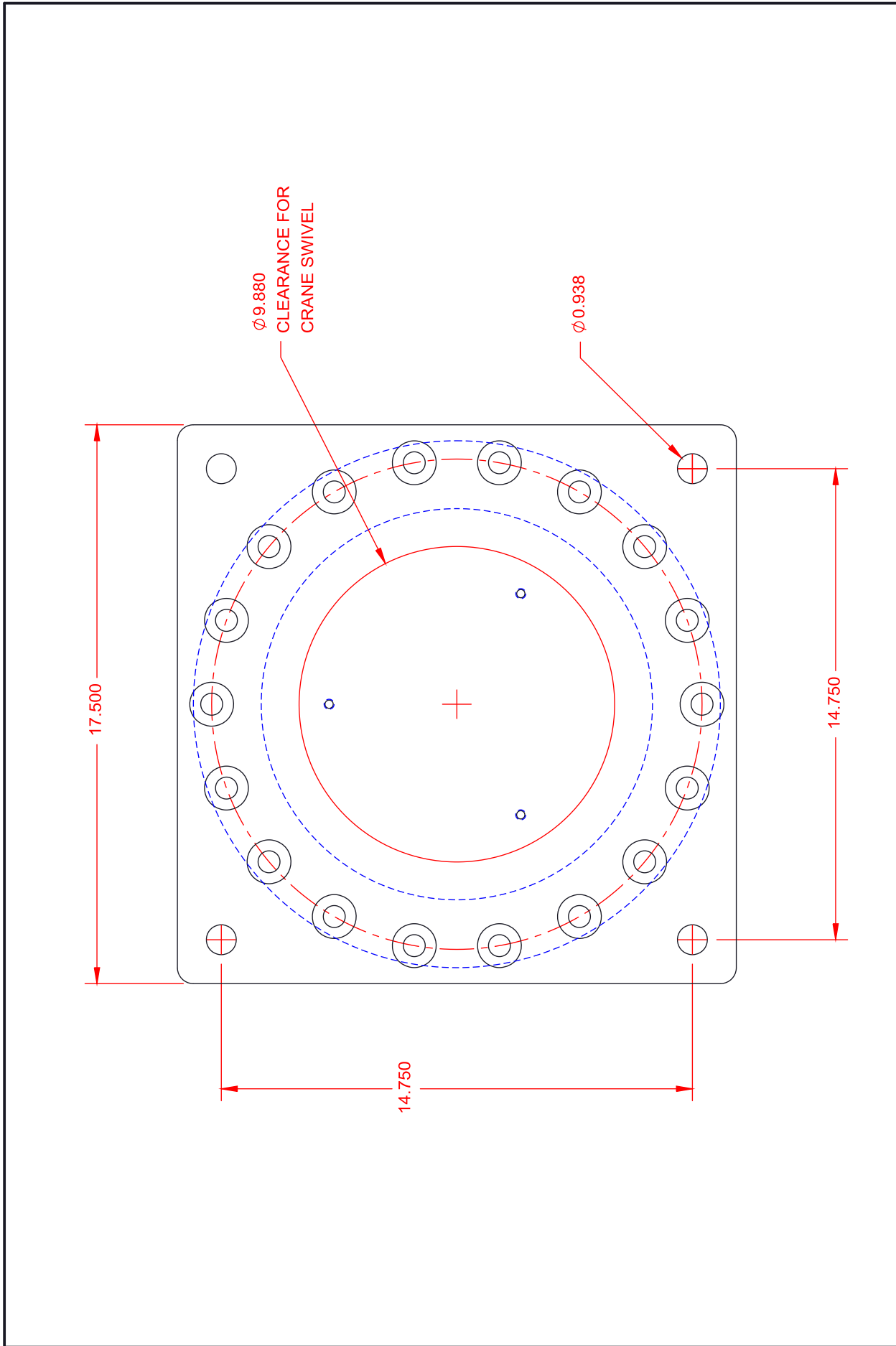
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8. **DO NOT RUN OIL THROUGH THE CRANE UNTIL THE OIL HAS BEEN FILTERED.** An adapter union matching the crane fittings is included. Connect the supply and return lines together using this adapter, circulate the oil through the filter to insure a clean supply. After the pump has filtered 1.5 times the reservoir capacity, hook the hoses to the crane. It is now ready to run.
9. Connect the hydraulic hoses to the fittings projecting below the crane. The pressure hose must be connected to the port marked "P" (No. 8 size fitting). This is the smaller of the two fittings. The return line to the tank must be connected to the port marked "T" (No. 10 fitting). This is the larger of the two fittings. The port letters are stamped on the bottom of the swivel.
10. Verify that the anti two-block will stop extension out and winch up when the Bail arms device is lifted by either function. The Crane Assembly drawing in the owner's manual illustrates how the Bail arms should be installed on the crane.
11. **READ AND UNDERSTAND OPERATORS MANUAL BEFORE OPERATING CRANE.** Operate the crane through all its functions. Check that each switch operates the correct function. Verify speed of the unit.
12. A boom support is required for this crane. For bodies shorter than 132", place the support so that the traveling block hook is secured and does not block the truck cab door.
13. An outrigger rated at least that of the crane must be installed to keep 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. OSHA requirements require a stability test be performed on this installation.
14. Extra rear spring leaves or heavy coil springs may be needed to keep the truck level when the crane is mounted on corner or off center locations.
15. Place these instructions with the Operators Manual.
16. Load Chart and stability test decals are to be placed on the truck body for easy visibility by the user.





DRAWING NO.
50653-A

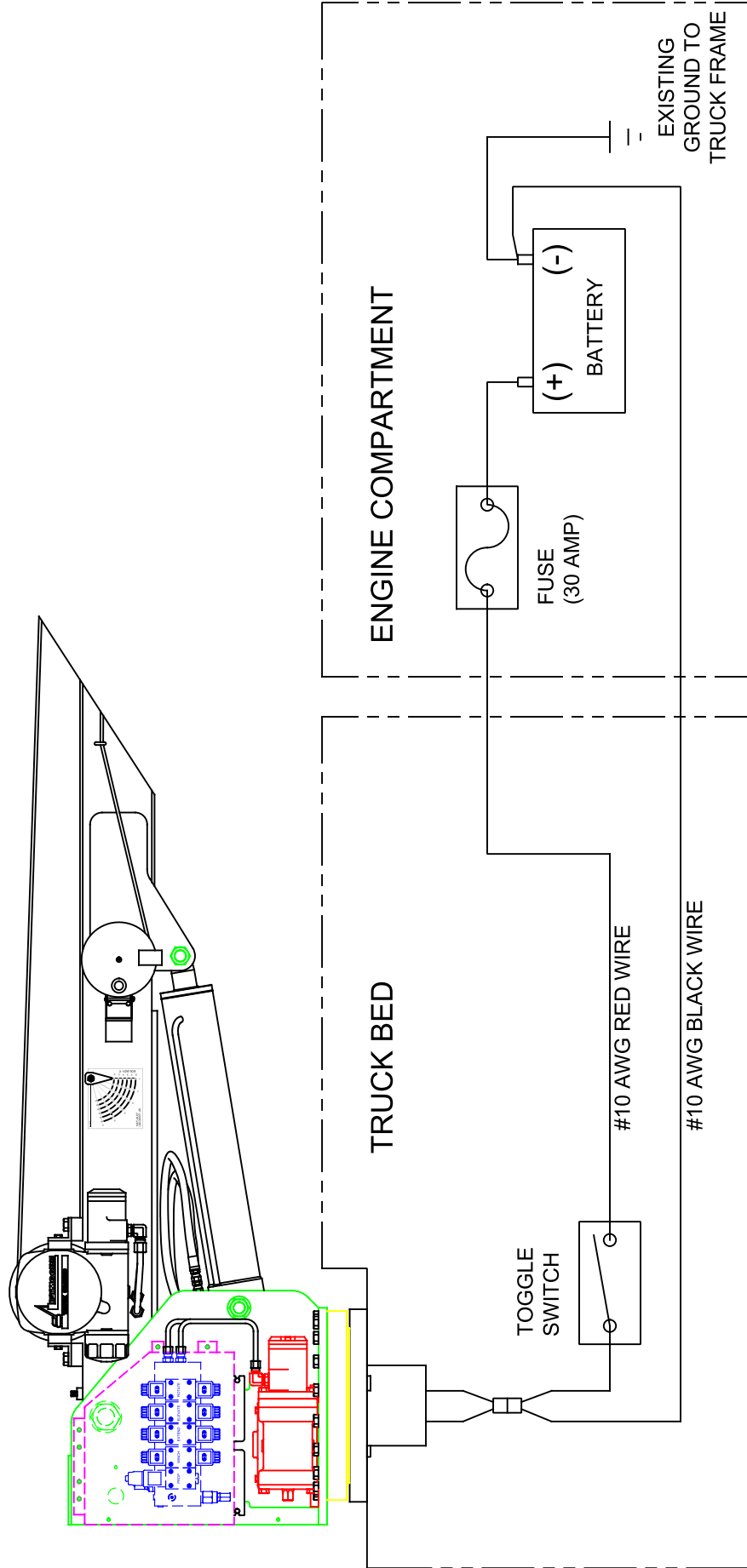
BASE PLATE 4064/8045
FOR INSTALLATION MANUAL

DRWN BY: JC
DATE: 3/29/07

Houston TX
(713)-688-5533
www.liftmoore.com



SUGGESTED WIRING SCHEMATIC FOR LIFTMOORE HYDRAULIC CRANE INSTALLATION



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(713)-688-5533
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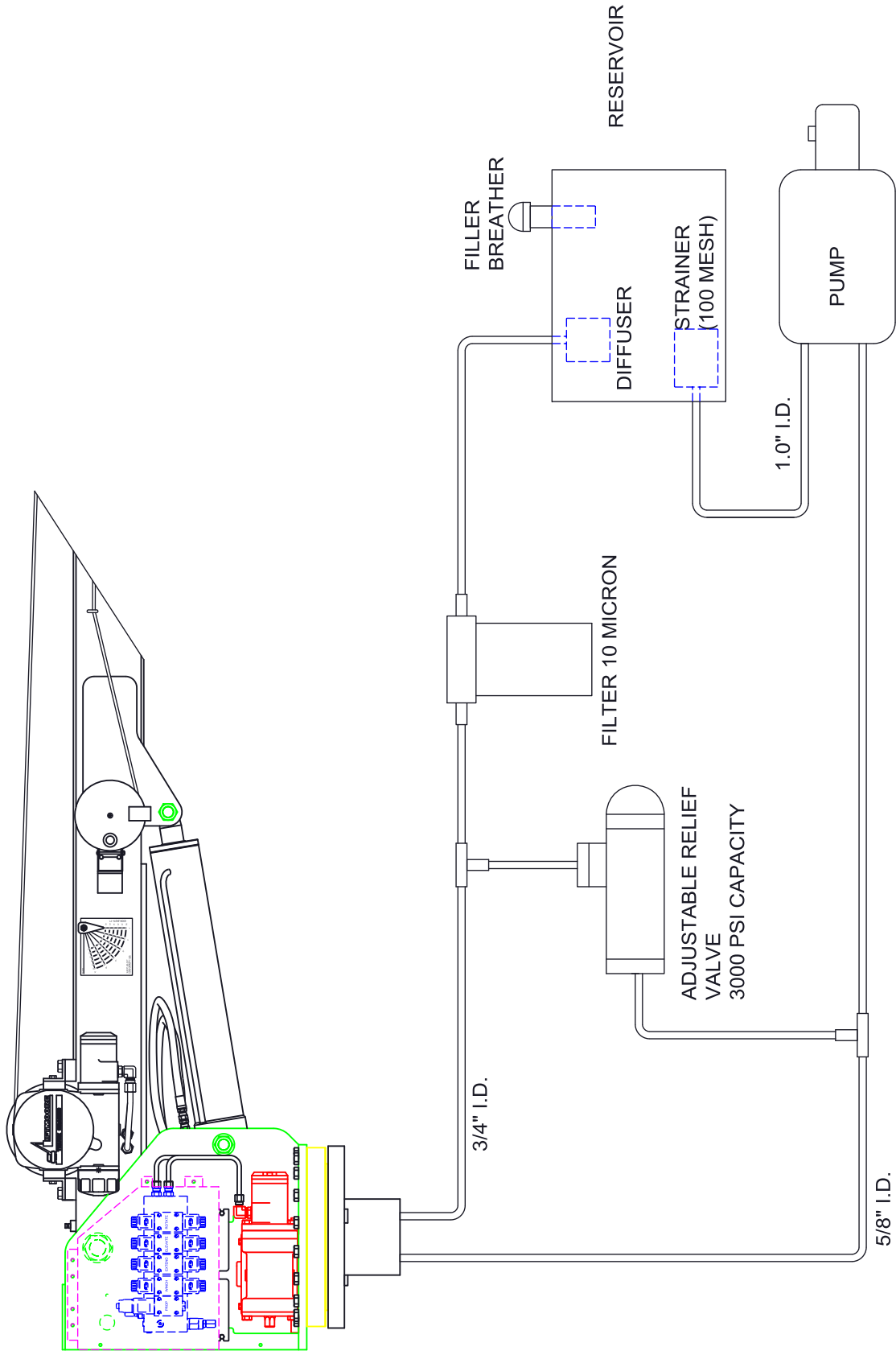
DRWN BY: JE
DATE: 7/16/21

SCHEM, CRANE ELEC. INSTAL-HYDR
HYDRAULIC CRANES, DUAL SWIVEL

DRAWING NO.

50948-0

SUGGESTED HYDRAULIC SCHEMATIC FOR LIFTMOORE HYDRAULIC CRANE INSTALLATION



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 (713)-688-5533
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SCHEM, CRANE HYD. INSTAL-HYD

DRAWING NO.

50026-B

DRWN BY: TV
 DATE: 03/02/06