CEBM010401

Shop Manual

930E-2

DUMP TRUCK

SERIAL NUMBERS **A30121 - A30155**
w/CUMMINS QSK-60 Engine

KOMATSU®

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SECTION A

GENERAL INFORMATION

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HYDRAULIC SYSTEM

The following is a general description of the Model 930E hydraulic system. Additional information concerning individual component description and operation can be found under the different system circuits such as the hoist circuit, steering circuit, and hydraulic brake circuit.

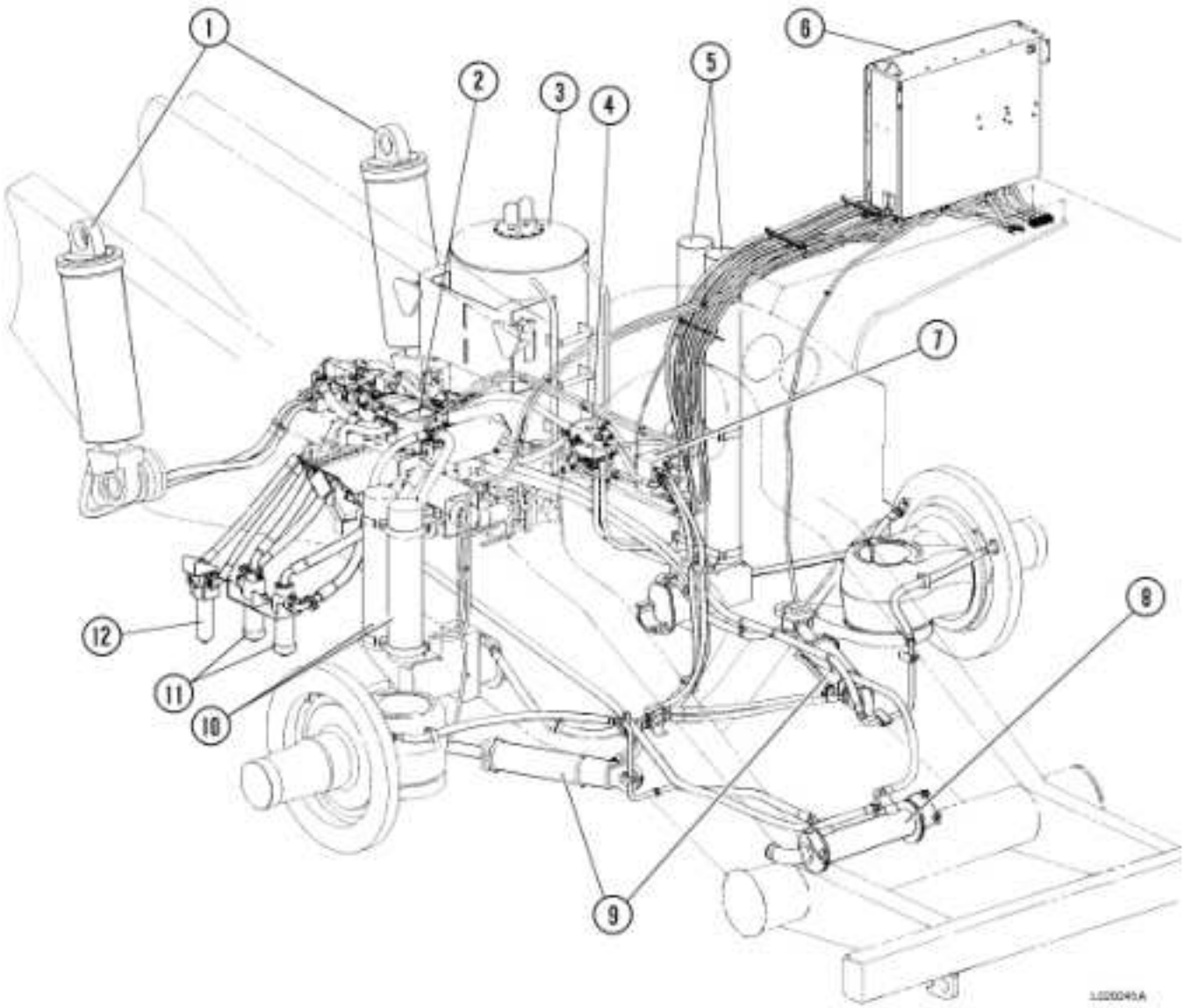
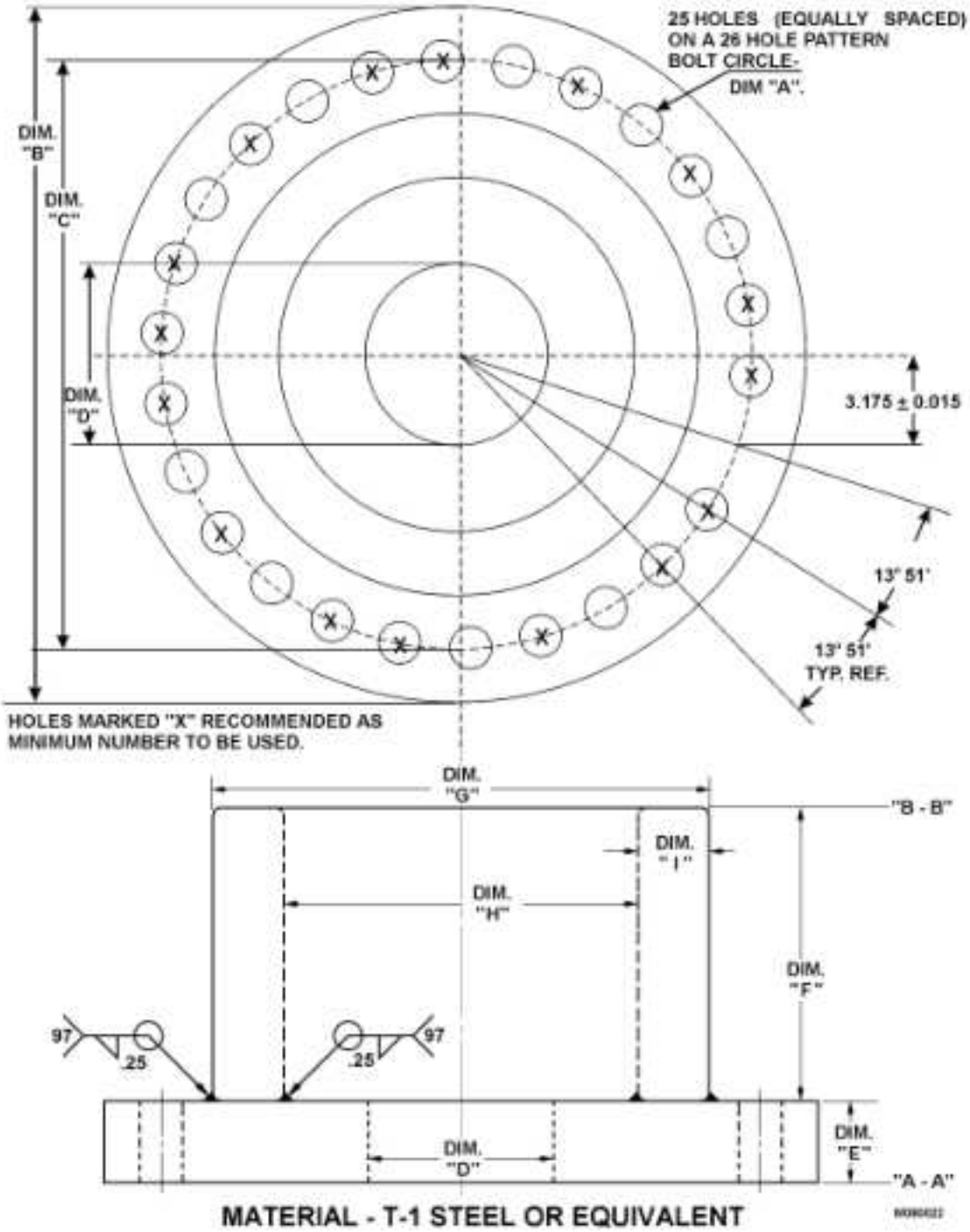


FIGURE 2-1. HYDRAULIC SYSTEM COMPONENTS AND PIPING

1. Hoist Cylinders
2. Hoist Valve
3. Hydraulic Tank
4. Bleeddown Manifold
5. Steering Accumulators
6. Hydraulic Components Cabinet
7. Flow Amplifier Valve
8. Heat Exchanger (Brake System Cooling)
9. Steering Cylinders
10. Brake System Auxiliary Accumulators
11. Hoist Circuit Filters
12. Steering Circuit Filter

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930E-2 SPINDLE REMOVAL TOOL

Dimension "A" - Bolt Hole Diameter
Dimension "B" - Plate Outside Diameter
Dimension "C" - Bolt Circle Diameter
Dimension "D" - Plate Inside Diameter
Dimension "E" - Plate Thickness
Dimension "F" - Cylinder Height
Dimension "G" - Cylinder Outer Diameter
Dimension "H" - Cylinder Inner Diameter
Dimension "I" - Cylinder Wall Thickness

NOTE: Surface A-A must be parallel to surface B-B within 0.062 in. after welding.

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TROUBLESHOOTING BY MANIFOLD GAUGE SET READINGS

PROBLEM: Insufficient Cooling

Indications:

Low side pressure - LOW.
High side pressure - LOW.
Discharge air is only slightly cool.

Possible Causes	Suggested Corrective Actions
- Low refrigerant charge, causing pressures to be slightly lower than normal.	Check for leaks by performing leak test. ***If No Leaks Are Found:*** Recover the refrigerant and use a scale to charge the proper amount into the system. Check system performance. ***If Leaks Are Found:*** After locating the source of the leak, recover the refrigerant, and repair the leak. Evacuate the system and recharge using a scale. Add oil as necessary. Check A/C operation and perform-ance test the system.

PROBLEM: Little or No Cooling

Indications:

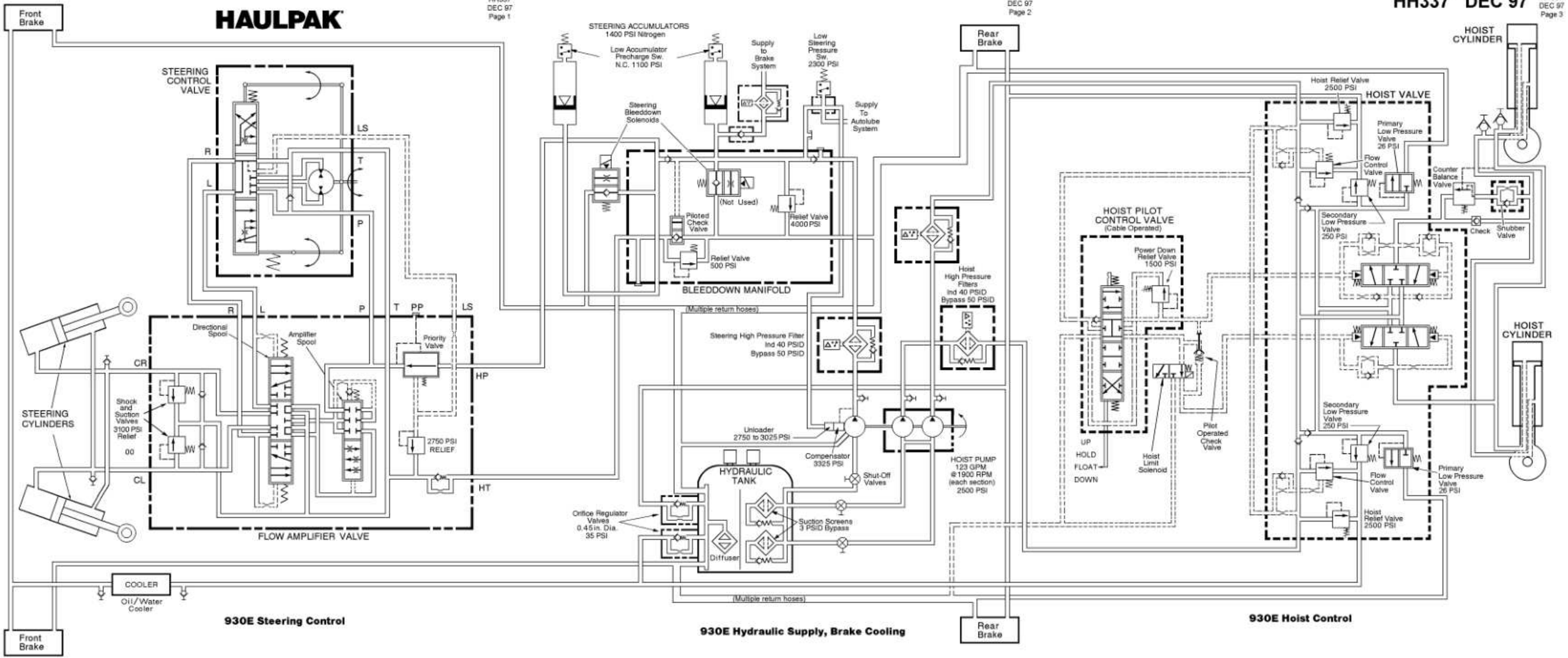
Low side pressure - VERY LOW
High side pressure - VERY LOW
Discharge air is warm.
No bubbles observed in sight glass, may show oil streaks.

Possible Causes	Suggested Corrective Actions
- Pressure sensing switch may have compressor clutch disengaged. - Refrigerant excessively low; leak in system.	Add refrigerant (make sure system has at least 50% of its normal amount) and leak test system. It may be necessary to use a jumper wire to enable the compressor to operate, if the com-pressor has shut down due to faulty pressure sensing switch. Repair any leaks and evacuate the system if necessary, Replace the receiver-drier if the system was opened. Recharge the system using a scale and add oil as necessary. Check A/C operation and do system performance test.

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