PART NO.

HITACHI

Technical Manual

EX

EX5500

Hydraulic Excavator

Service Manual consists of the following separate Part No.
Technical Manual (Troubleshooting)
Workshop Manual

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Adjustment of Torque Control

The torque control is performed by pump delivery pressure P. Therefore, the torque constant control is adjusted by changing the set-force of inner spring (2) and outer spring (1).

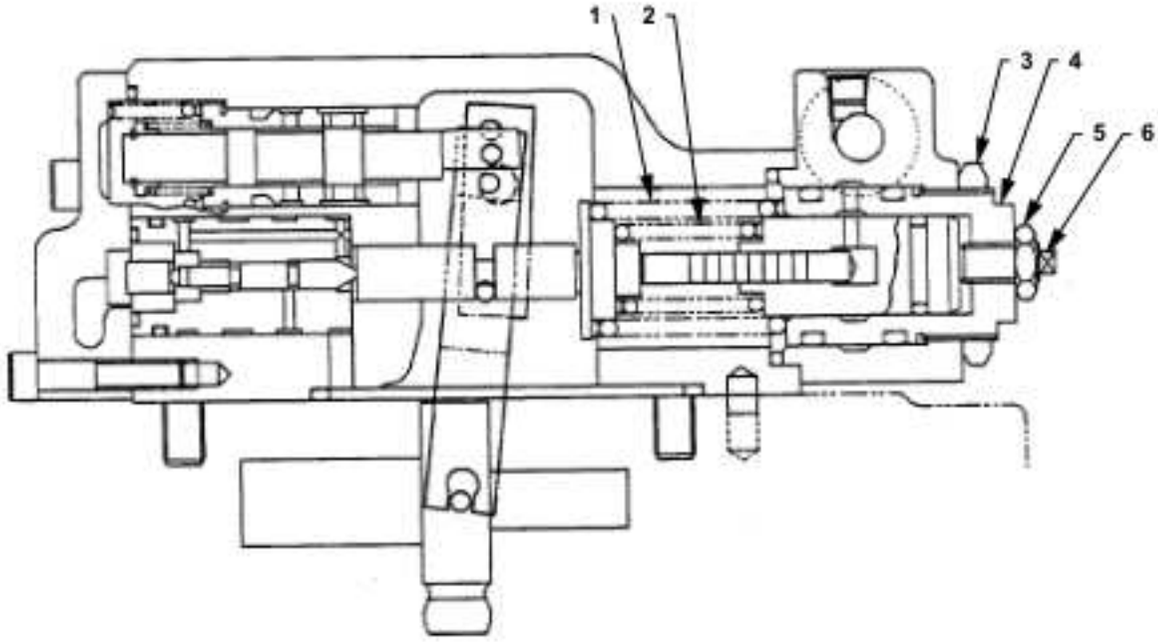
(Before adjust the screws (4) and (6), mark the end of the adjusting screw with a white marker for the record of the original position.)

When resetting inner spring (2), loosen nut (5) and adjust screw (6).

When resetting outer spring (1), loosen nut (3) and adjust screw (4).

NOTE: When adjusting screw (4) is turned, inner spring (2) set-force varies. Therefore, when adjusting screw (4) is turned, turn adjusting screw (6) 2.17 times the turns of adjusting screw (4) in the opposite direction to keep inner spring (2) set-force unchanged.

: 36 mm : Nut (3)
: 24 mm : Screw (4)
: 13 mm : Nut (5)
: 4 mm : Screw (6)

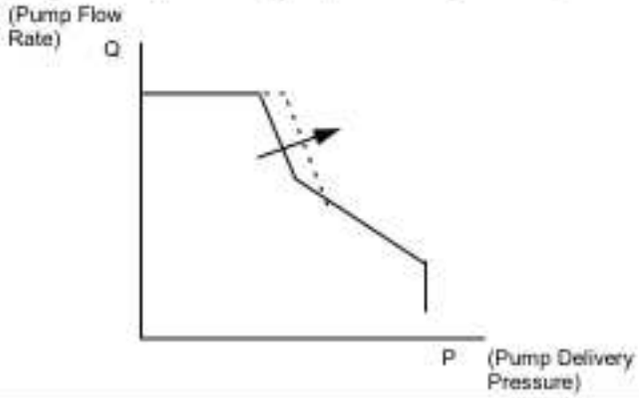


T117-05-04-005

NOTE: 1 kgf/cm^2 = 98.07 kPa=14.22 psi
1L=0.2642 US gal
1 kgf·m = 9.807 N·m=7.233 lbf·ft

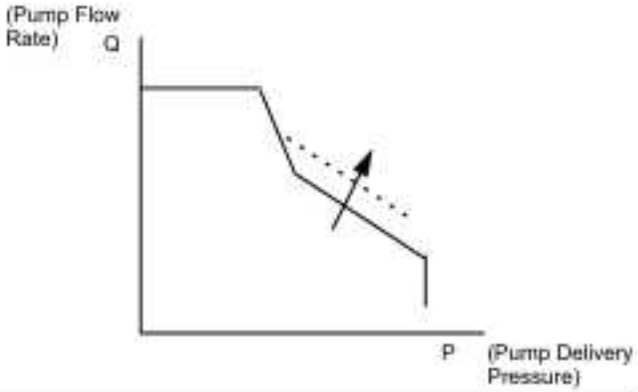
Outer Spring Adjustment Data

Adjusting Screw Turn	1/4
Flow Rate Change	35.4 L/min
Pressure Change	17.8 kgf/cm^2
Engine Torque Change	7.6 kgf·m



Inner Spring Adjustment Data

Adjusting Screw Turn	1/4
Flow Rate Change	16.3 L/min
Pressure Change	18.4 kgf/cm^2
Engine Torque Change	5.08 kgf·m

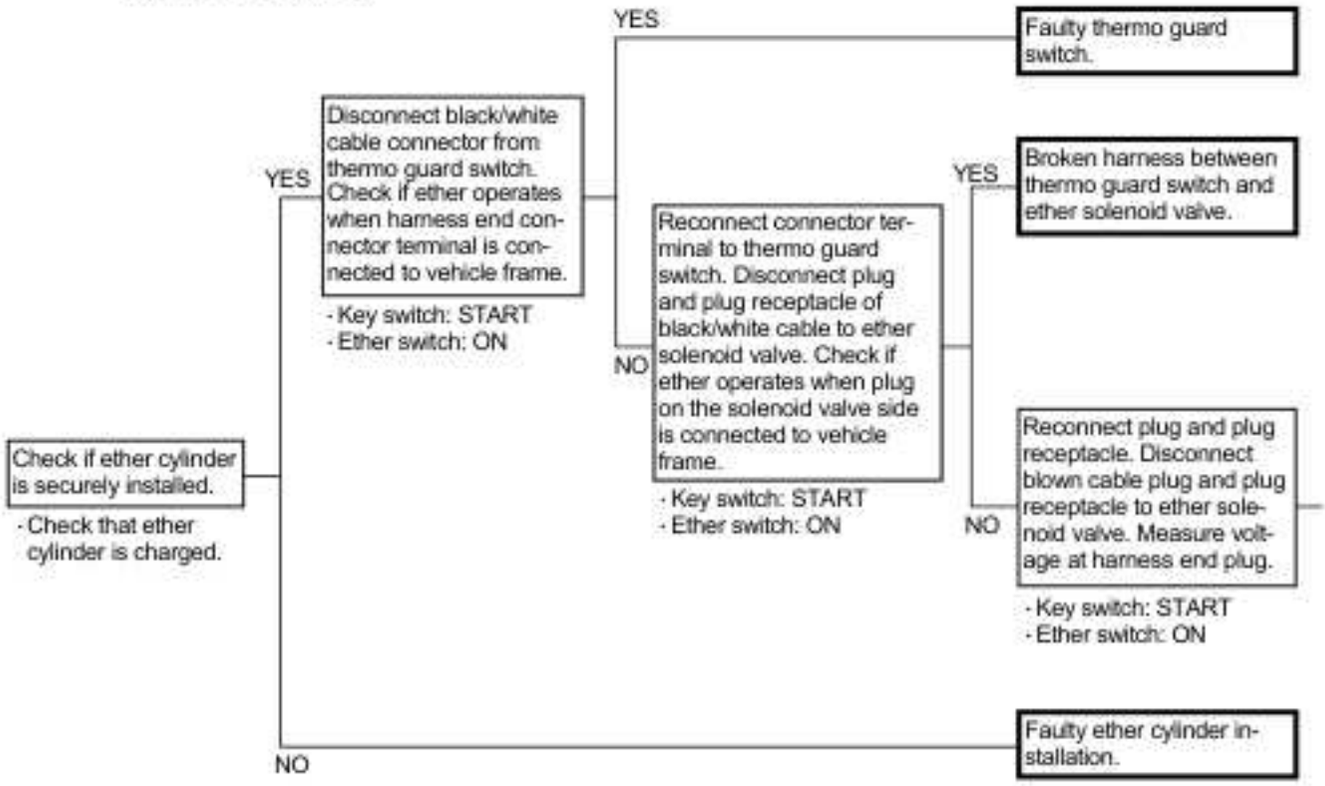


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E-8 Ether starter assist system does not operate.

- Check for loose harness connections beforehand.

NOTE: When the coolant temperature is 38 °C (100 °F) or higher, the starting aid solenoid valve is not activated.



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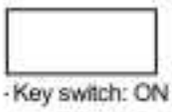
TROUBLESHOOTING C PROCEDURE (TROUBLESHOOTING FOR MONITOR)

Use troubleshooting C when any monitors, such as gauges or indicators malfunction.

- How to Read the Troubleshooting Flow Charts



After checking or measuring in box (1), select either YES (OK) or NO (NOT OK) and proceed to box (2) or (3).

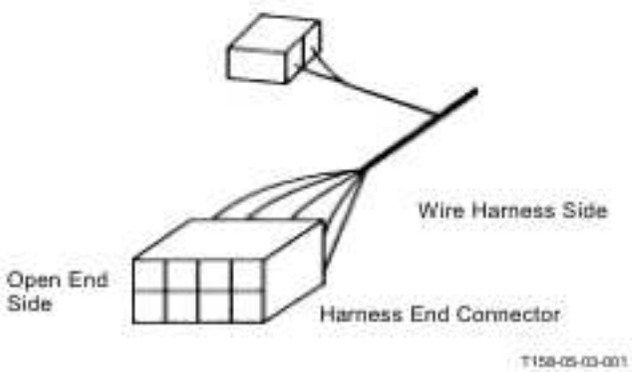


Instructions or reference on the checking or measuring methods are indicated under the box. If incorrectly measured or checked, not only will troubleshooting be unsuccessful but also damage to the components may result.



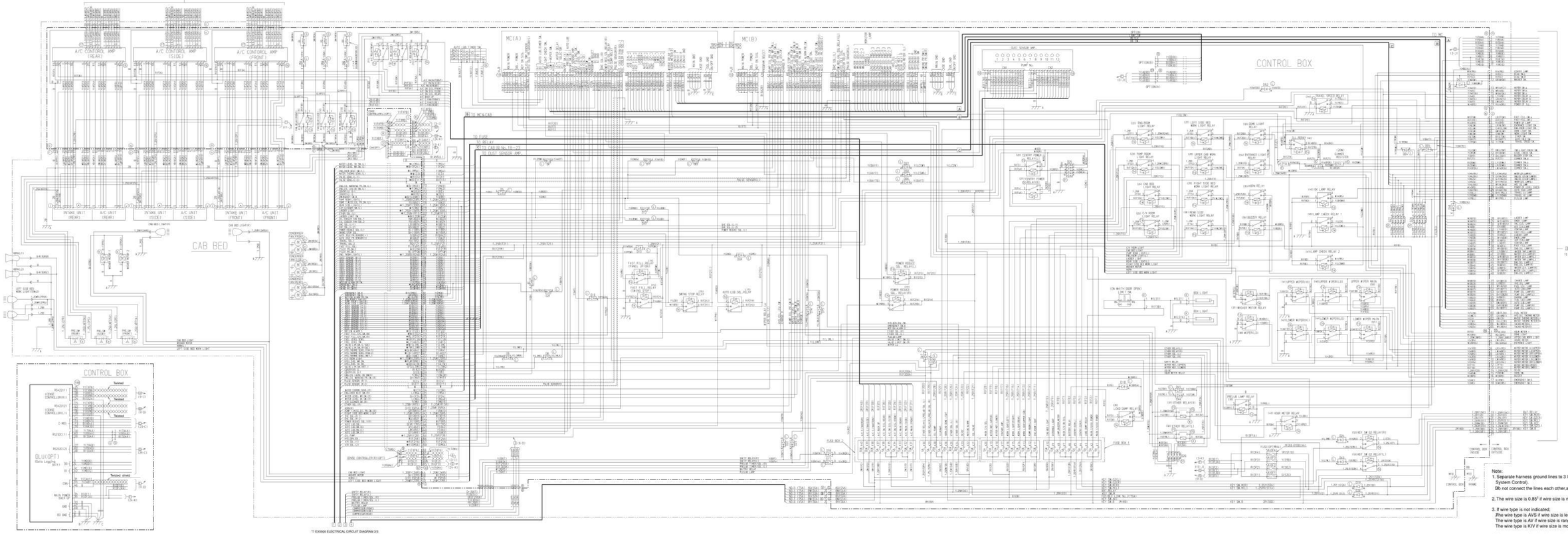
Causes are stated in a thick-line box. Scanning through thick-line boxes, possible cause can be estimated before actually following the flow chart.

NOTE: All harness end connectors are seen from the open end side.



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EX5500 ELECTRICAL CIRCUIT DIAGRAM 2/3



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