SHOP MANUAL

KOMATSU®

PC200-6
PC200LC-6
PC210LC-6
PC220LC-6
PC250LC-6
EXCAVATOR

MACHINE MODEL	SERIAL NUMBERS
PC200-6	A80001 and up
PC200LC-6	A80001 and up
PC210LC-6	A80001 and up
PC220LC-6	A80001 and up
PC250LC-6	A80001 and up

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MAR 96
Includes revision (1)

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○	Page to be newly added	Add
●	Page to be replaced	Replace
( )	Page to be deleted	Discard

Pages without marks were previous additions or revised pages.

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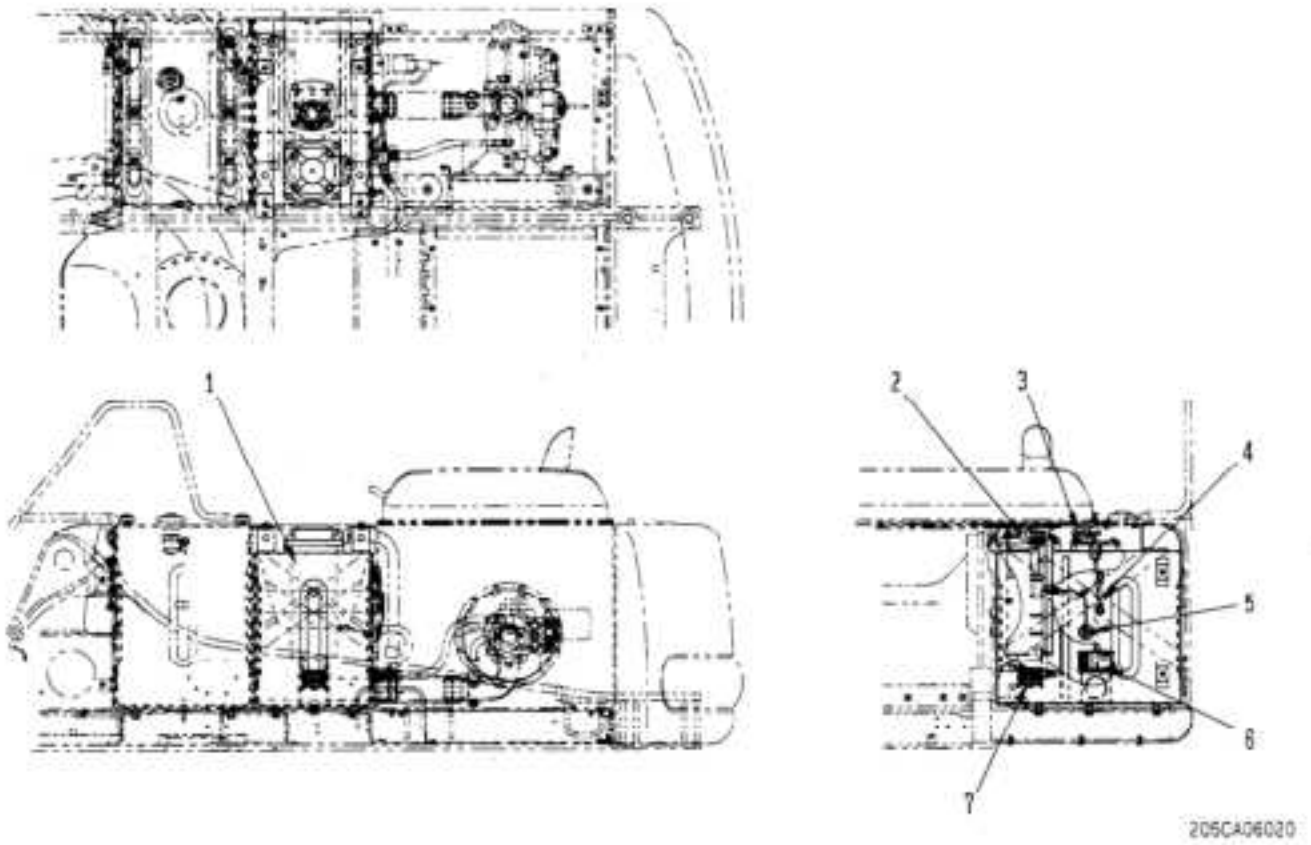
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HYDRAULIC TANK



1. Hydraulic tank
2. Bypass valve
3. Oil filler cap
4. Sight gauge
5. Hydraulic oil level sensor
6. Suction strainer
7. Filter element

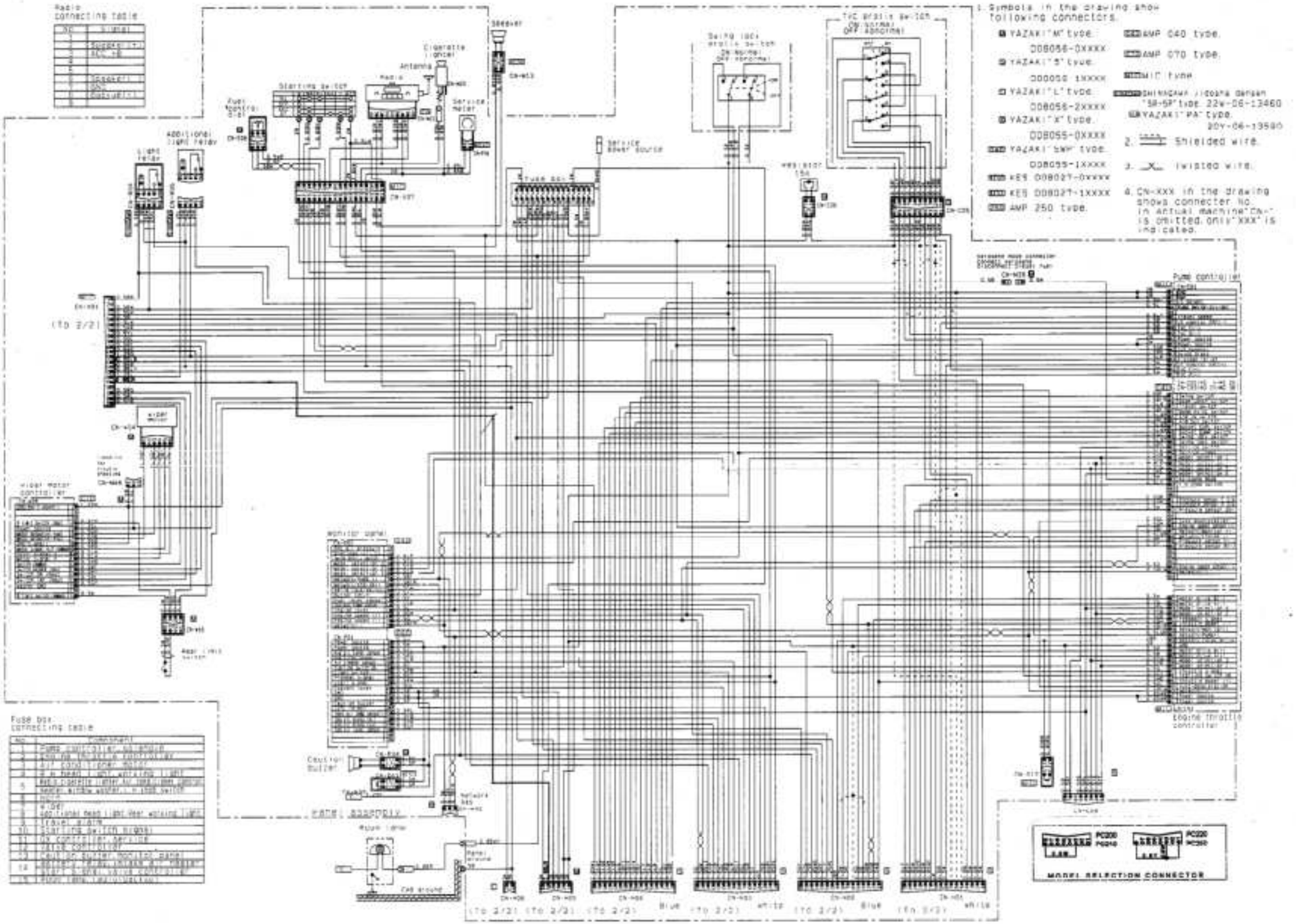
SPECIFICATIONS

Tank capacity: 230 ℓ
Amount of oil inside tank: 166 ℓ
Pressure valve
Relief cracking pressure: 0.017 ± 0.004 MPa (0.17 ± 0.04 kg/cm²)
Suction cracking pressure: 0 – 0.0005 MPa (0 – 0.005 kg/cm²)
Bypass valve set pressure: 0.103 ± 0.02 MPa (1.05 ± 0.2 kg/cm²)

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ELECTRICAL CIRCUIT DIAGRAM (1/2)

PC200-6, PC200LC-6
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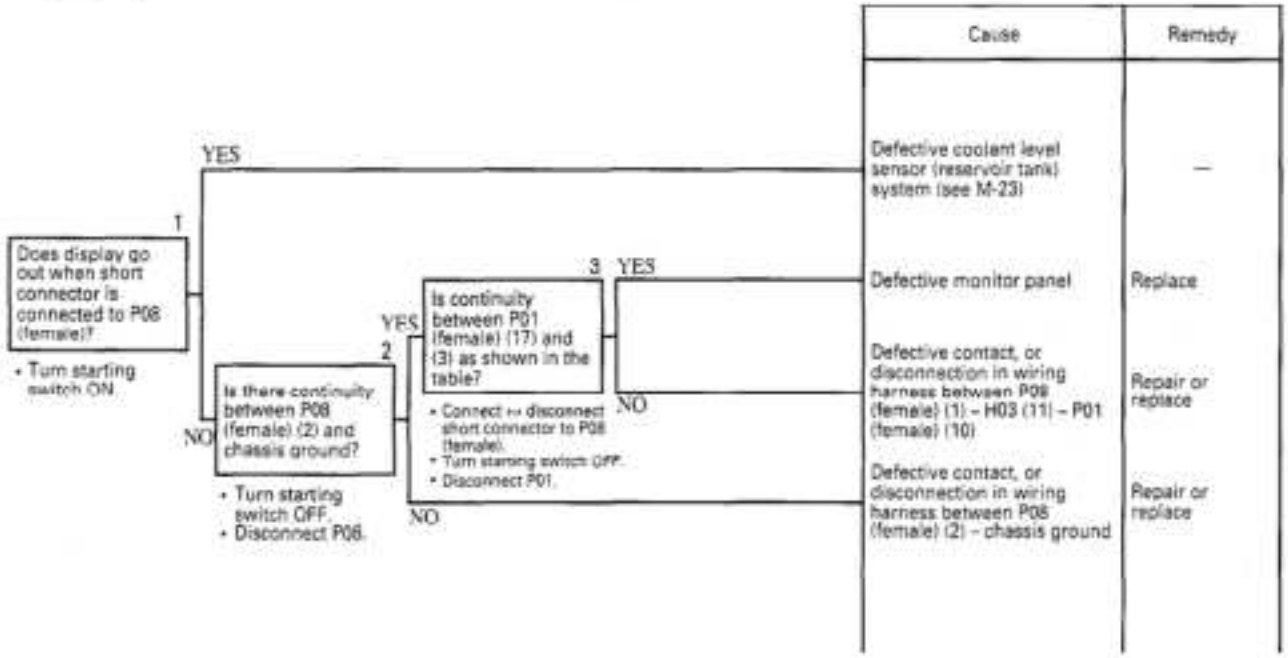
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M-7 When starting switch is turned ON (engine stopped), CHECK items flash
(Fluid levels for CHECK items are at specified level)

★ Before carrying out troubleshooting, check that all the related connectors are properly inserted.
★ Always connect any disconnected connectors before going on the next step.
★ Check that the coolant is at the specified level before carrying out troubleshooting.

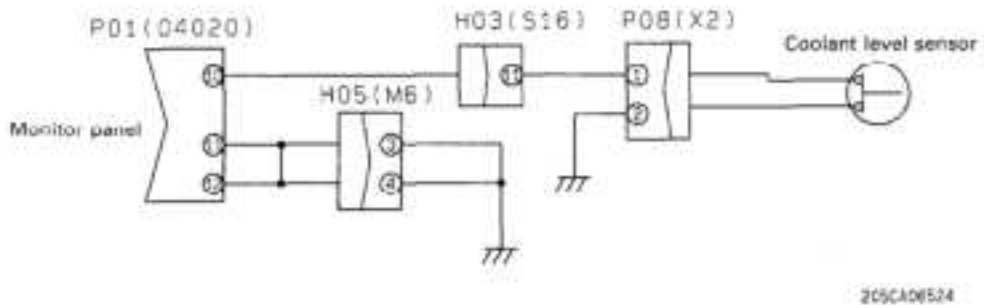
a) (coolant level) flashes



Table

Short connector	Continuity
Connected	Yes
Disconnected	No

M-7 a) Related electric circuit diagram



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JUDGEMENT TABLE FOR PUMP CONTROLLER AND HYDRAULIC RELATED PARTS

Figure in ○ shows position of bit pattern

Foldout 19

| Failure mode | | Pump controller (E2:○○ system) Self-diagnostic display: Abnormality in pump controller power source system | Short circuit in front pump TVC solenoid system | Short circuit in rear pump TVC solenoid system | Disconnection in front pump TVC solenoid system | Disconnection in rear pump TVC solenoid system | Short circuit in swing brake solenoid system | Disconnection in swing brake solenoid system | Short circuit in LS select solenoid system | Short circuit in pump merge-divider solenoid system | Short circuit in 2-stage relief solenoid system | Short circuit in travel speed solenoid system | Disconnection in LS select solenoid system | Disconnection in pump merge-divider solenoid system | Disconnection in 2-stage relief solenoid system | Disconnection in travel speed solenoid system | Model selection input error | Network response overtime error | Short circuit in LS control EPC solenoid system | Disconnection in LS control EPC solenoid system | Abnormality in front pump pressure sensor system | Abnormality in rear pump pressure sensor system | Abnormality in pressure sensor power source system | Abnormality in engine speed sensor system | Abnormality in auto-deceleration output system | Checking monitoring, check items: Oil pressure switch: Swing (Bit No.1) | Travel (Bit No.2) | Boom LOWER (Bit No.3) | Boom RAISE (Bit No.4) | Arm IN (Bit No.5) | Arm OUT (Bit No.6) | Bucket CURL (Bit No.1) | Bucket DUMP (Bit No.2) | Swing lock switch (Bit No.3) | Model code | Engine speed input | Front pump discharge pressure input signal | Rear pump discharge pressure input signal | Front pump TVC output signal | Rear pump TVC output signal | LS control EPC signal | No. 2 throttle signal | Kerosene mode signal (Bit No.3) | L.H.knob switch signal (Bit No.8) | Actuation of solenoid: LS select (Bit No.2) | Swing brake (Bit No.3) | Pump merge-divider (Bit No.4) | 2-stage relief (Bit No.5) | Travel speed (Bit No.6) | Is red range displayed? 102°C or above | 105°C or above | Is voltage for coolant temperature normal? Monitoring code | Troubleshooting code if no service code is displayed |
|---|---|---