CX290
CRAWLER EXCAVATOR

Service Manual

9-53581

CASE

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NOTES

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WARNING: *This symbol is used in this manual to indicate important safety messages. Whenever you see this symbol, carefully read the message which follows. Your safety depends on it.*

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TYPE, SERIAL NUMBER AND YEAR OF MANUFACTURE OF THE MACHINE

For all part orders, request for information or assistance, always specify the type and the serial number of the machine to your Case dealer.

Fill in the following lines with the required information: Type, serial number, year of manufacture of the machine and the serial numbers of the hydraulic and mechanical components.

Machine



CP98M005



CS02MB18

(1) Type.....

(2) Serial number.....

(3) Year of manufacture.....

Engine

Make and type .....

Serial number .....

Serial numbers of the components

Hydraulic pump.....

Swing reduction gear.....

Travel reduction gears.....

Travel control valve.....

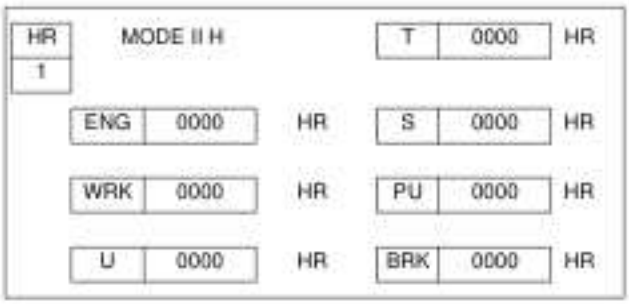
Attachment control valve .....

Swing control valve.....

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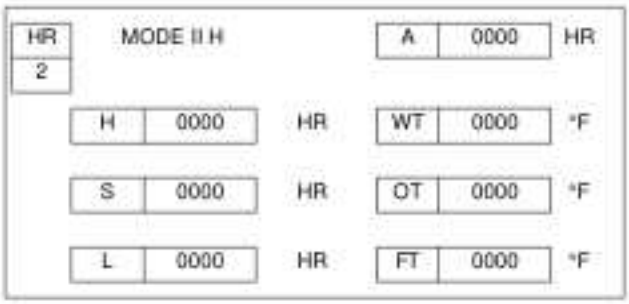
Machine history

1. Screen HR1



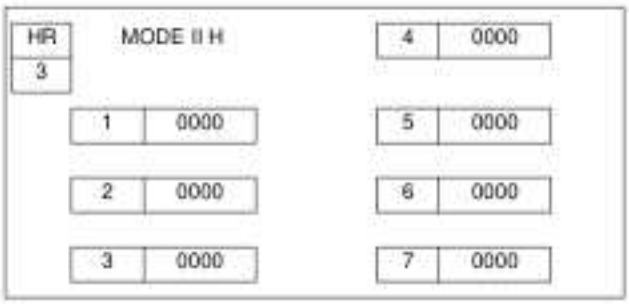
ENG: Hourmeter
WRK: Length of time that excavator has been used (with attachment or travel operating)
U: Length of time that attachment has been used
T: Length of time that travel has been used
S: Length of time that swing has been used
PU: Length of time that power boost has been used
BRK: Length of time that breaker has been used

2. Screen HR2



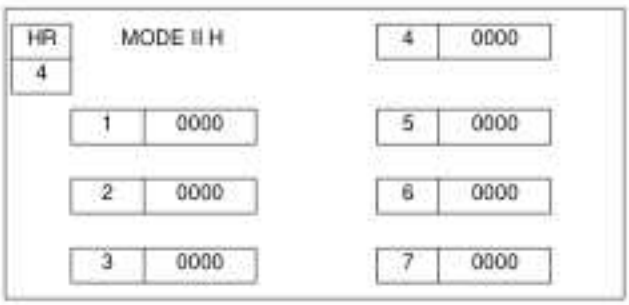
H: Length of time excavator was used in mode H
S: Length of time excavator was used in mode S
L : Length of time excavator was used in mode L
A : Length of time excavator was used in AUTO mode
WT: Maximum coolant temperature
OT: Maximum hydraulic oil temperature
FT : Not used

3. Screen HR3



1: Length of time the electronic control box was used
2: Length of time slow travel was used
3: Length of time fast travel was used
4: Length of time travel alone was used
5: Maintenance intervals
6: Not used
7: Not used

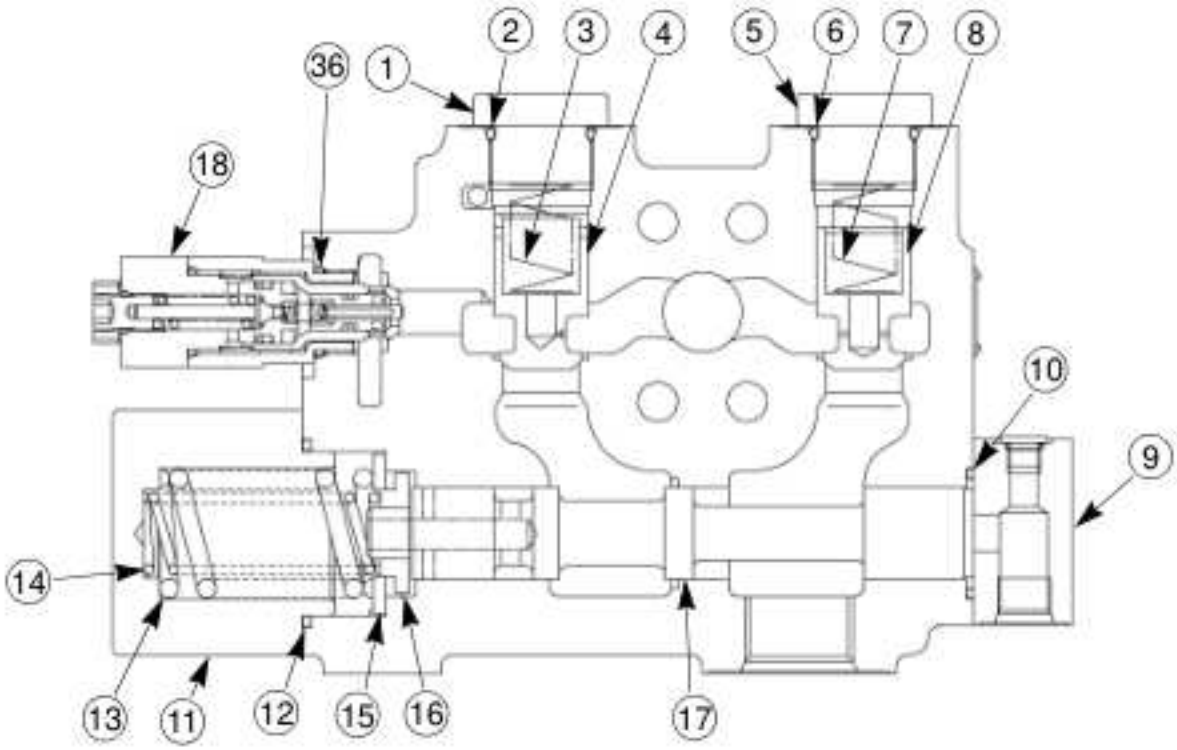
4. Screen HR4, operating time of the various P1 pressures



1: 1450 psi or lower
2: Between 1450 psi and 2176 psi
3: Between 2176 psi and 2901 psi
4: Between 2901 psi and 3626 psi
5: Between 3626 psi and 4351 psi
6: Between 4351 psi and 5076 psi
7: 5076 psi or above

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Disassembly



CX00K903

1. Remove the plug (1) and discard the O-ring (2).
2. Remove the spring (3) and the check valve (4) after marking their positions.
3. Remove the plug (5) and discard the O-ring (6).
4. Remove the spring (7) and the check valve (8) after marking their positions.
5. Remove the retaining screws from the spool stop cap (9), remove it and discard the O-ring (10).
6. Remove the screws and remove the spool cap (11), discard the O-ring (12).
7. Remove the springs (13) and (14).
8. Remove the seats from the spring (15) and (16).
9. Remove the spool (17).
10. Remove the anti-hose burst valve (18) and discard the O-ring (36).

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Assembly

NOTE: *The numbers within brackets in the following steps refer to the schematic on page 15.*

NOTE: *When installing, install new seal rings.*

STEP 1

Install an O-ring (37) on the valve body (39).

STEP 2

Install the spring seat (34) in the valve body (39).

STEP 3

Oil the inside of the spring seat (34). Install the check valve (35) in the spring seat (34).

STEP 4

Install the spring (36) on the valve body (39).

STEP 5

Install an O-ring (41) on the liner (46). Install a shim (38) on the spring (36).

STEP 6

Install the liner (46) in the valve body (39), taking care not to damage the O-ring (41).

STEP 7

Install the piston (40) in the sleeve (45). Install the sleeve (45) in the liner (46).

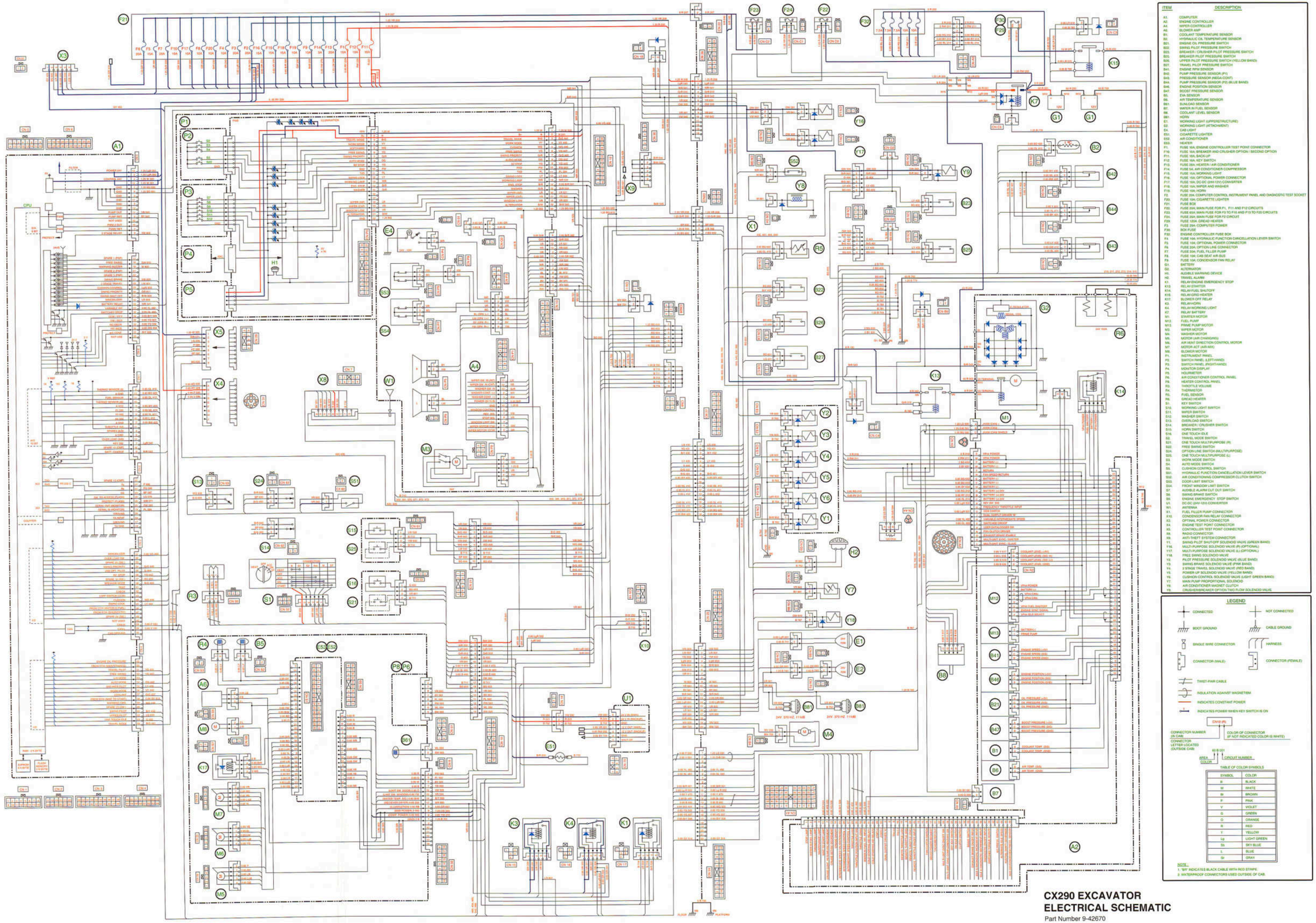
STEP 8

Install a back up ring (42) and an O-ring (43) on the plug (44). Install the plug (44) in the liner (46).

STEP 9

Install the blank nut (47).

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