EEBM001902

SHOP MANUAL

KOMATSU®

PC290LC-6K
PC290NLC-6K

MACHINE MODEL
PC290LC-6K
PC290NLC-6K

SERIAL NUMBER
K30001 and up, K34001 and up
K30001 and up, K34001 and up

- This shop manual may contain attachements and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice

- PC290LC-6K, PC290NLC-6K mount the SA6D102EA-1 engine.
for details of the engine, see the 102 Service Engine Shop Manual.

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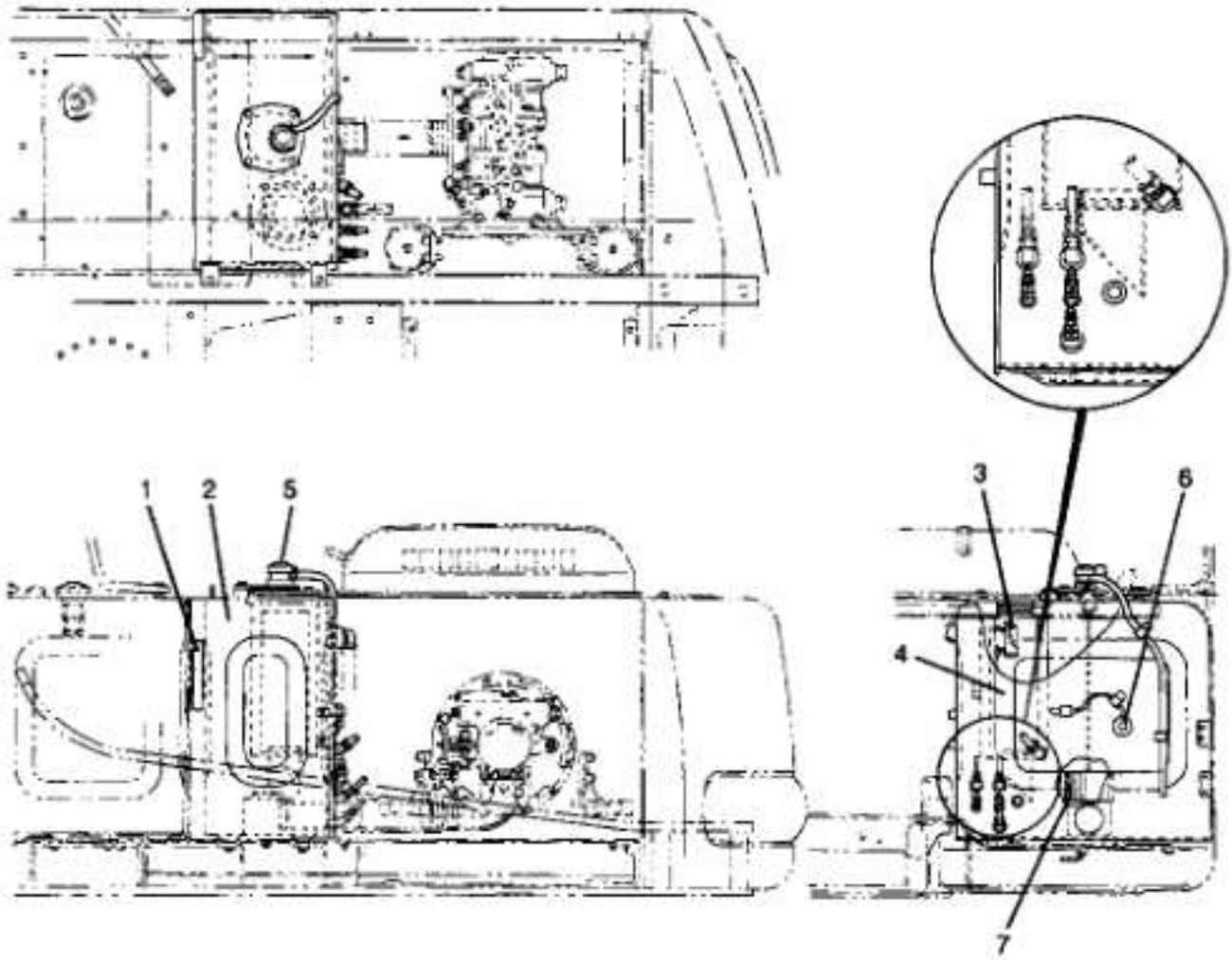
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HYDRAULIC TANK

Serial K30001 and up



X10BV083

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

Specifications

Tank capacity: 230 ℓ

Amount of oil inside tank: 166 ℓ

Pressure valve

- Relief cracking pressure: 16.7 ± 3.9 kPa (0.17 ± 0.04 kg/cm²)
- Suction cracking pressure: 0 - 0.49 kPa (0 - 0.005 kg/cm²)
- Bypass valve set pressure: 0.102.9 ± 19.6 kPa (1.05 ± 0.2 kg/cm²)

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METHOD OF USING JUDGEMENT TABLE

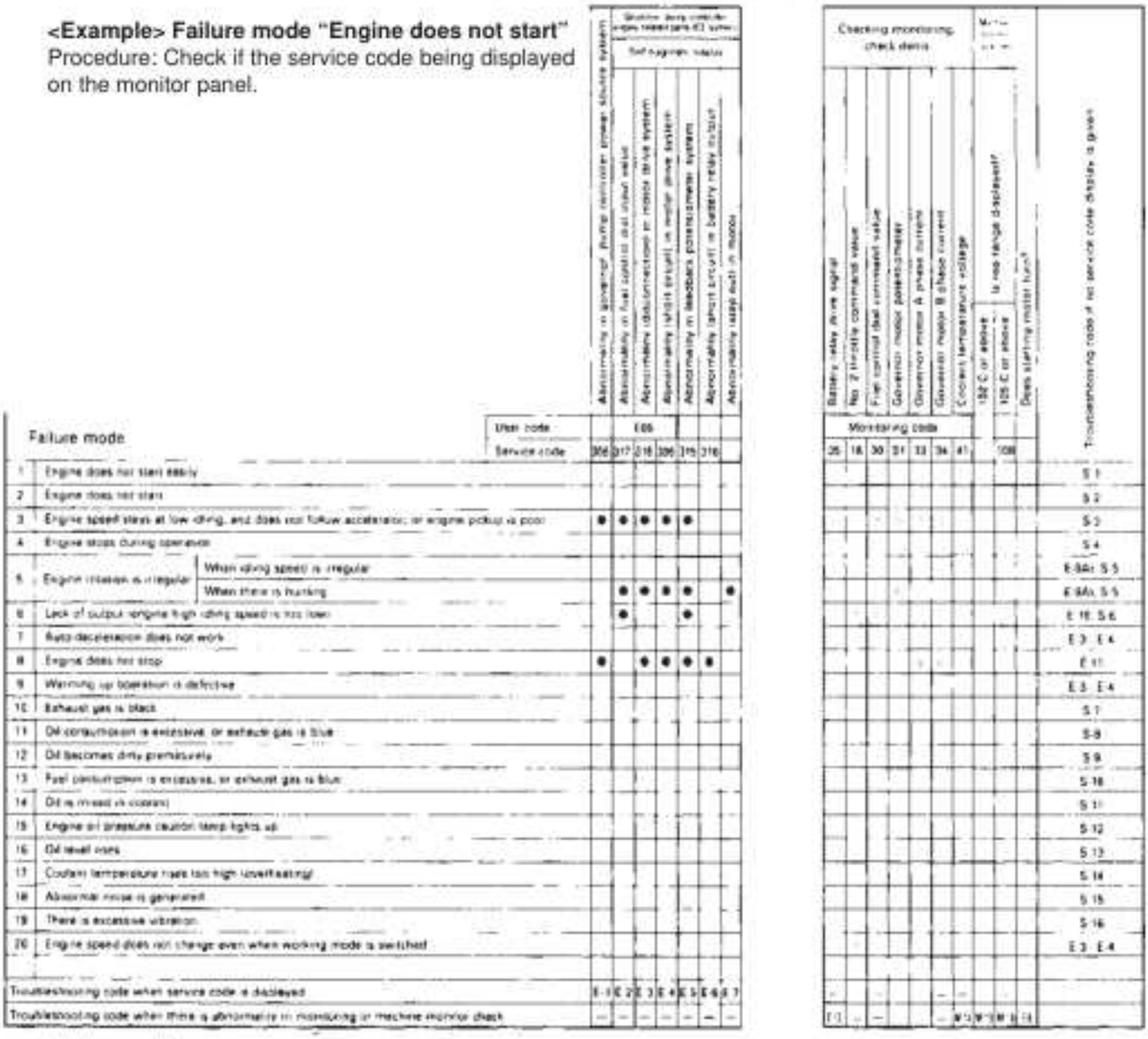
This judgement is a tool to determine if the problem with the machine is caused by an abnormality in the electrical system or by an abnormality in the hydraulic or mechanical system. The symptoms are then used to decide which troubleshooting table (E-OO, S-OO, C-OO, F-OO, H-OO, M-OO) matches the symptoms. The judgement table is designed so that it is easy to determine from the user code and service code which troubleshooting table to go to.

★ The abnormality display (warning) given by the monitor panel leads directly to troubleshooting of the machine monitor (M-OO). (See troubleshooting of the machine monitor system)

1. When using judgement table for engine throttle • engine controller (governor control system) and engine related parts.

- If a service code is displayed on the monitor panel, go to the troubleshooting code at the bottom of the judgement table (E-OO). (A • mark is put at the places where the failure mode and service code match.)
- If a problem has appeared but no service code is displayed on the monitor panel, go to the point where the failure mode matches the troubleshooting code on the right of the judgement table (E-OO or S-OO).

<Example> Failure mode "Engine does not start"
Procedure: Check if the service code being displayed on the monitor panel.



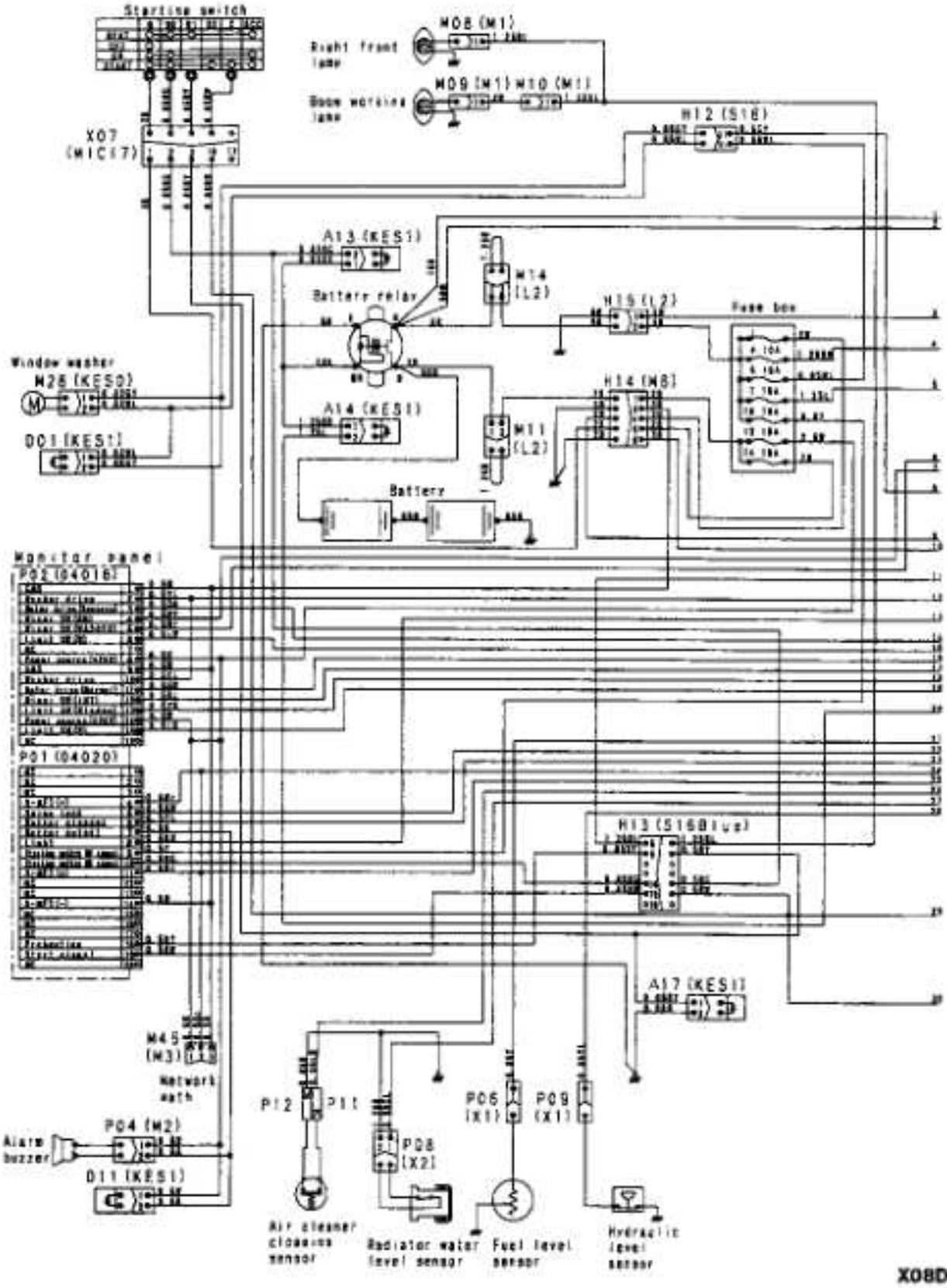
[Judgement]

1) If a service code is being displayed on the monitor panel, go to troubleshooting [E3:OO] for the engine throttle • pump controller (governor control system).
2) If no service code is displayed on the monitor panel, and the engine does not start:

Check that starting motor rotates
- Starting motor rotates ..... Go to troubleshooting S-2 • of mechanical system
- Starting motor does not rotate . Go to troubleshooting E-8 of electrical system

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ELECTRICAL CIRCUIT DIAGRAM FOR M MODE SYSTEM



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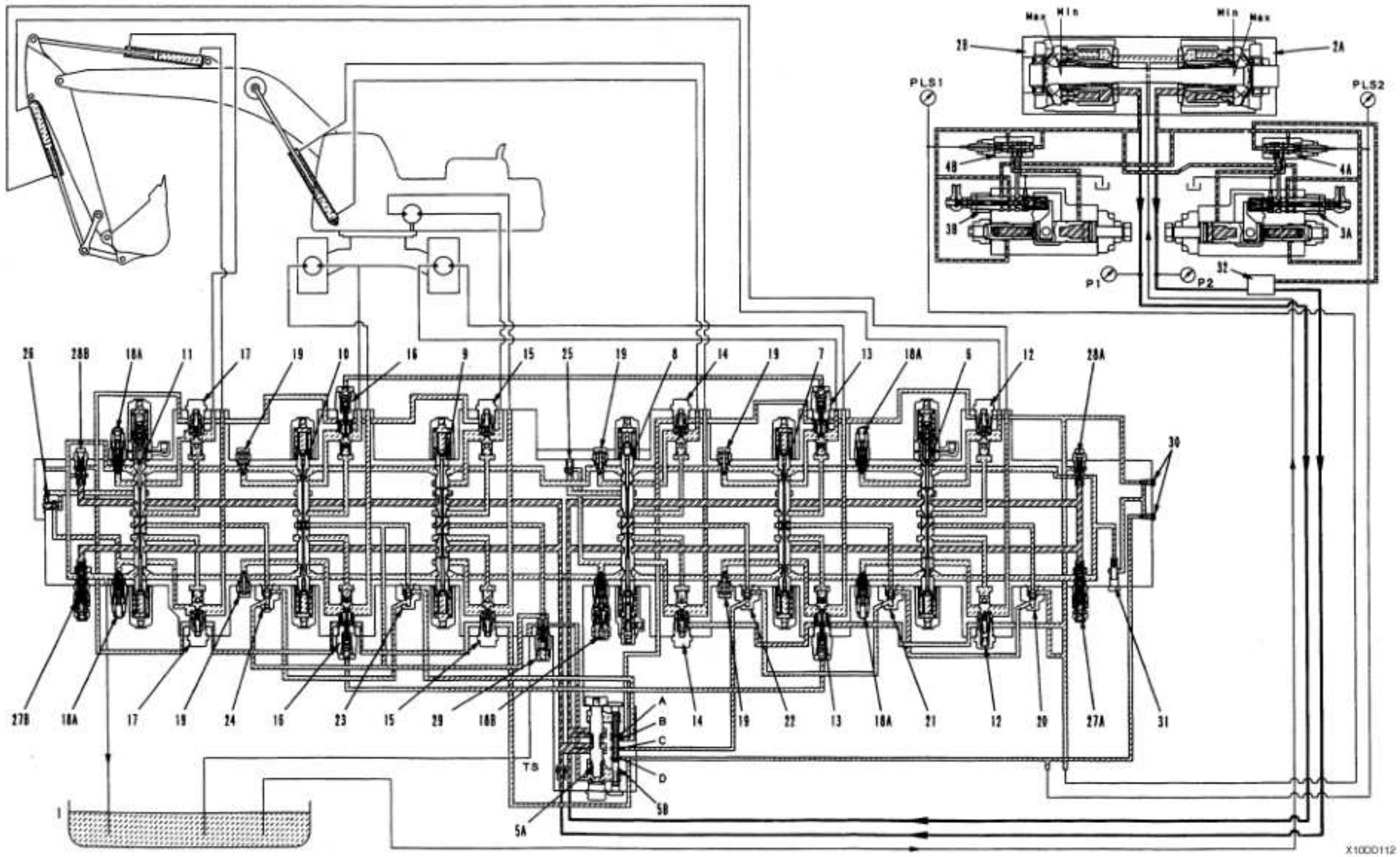
FOLDOUT 1

Operation of CLSS system as a whole

When all work equipment is at neutral

★ The diagram shows the when all work equipment is at neutral

★ The valves and circuits that are not connected with the explanation of the operation of the CLSS hydraulic system have been ommited.



- Connection of ports when pump flow is merged. Connected ports: **A - D, B - C**.

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