SEN05276-06

Shop Manual

HYDRAULIC
EXCAVATOR

PC800 -8E0
PC800LC-8E0
PC800SE-8E0
PC850 -8E0
PC850SE-8E0

SERIAL NUMBERS	PC800-	65001	and up
	PC800LC-	65001	
	PC800SE-	65001	
	PC850-	65001	
	PC850SE-	65001	

ecot3

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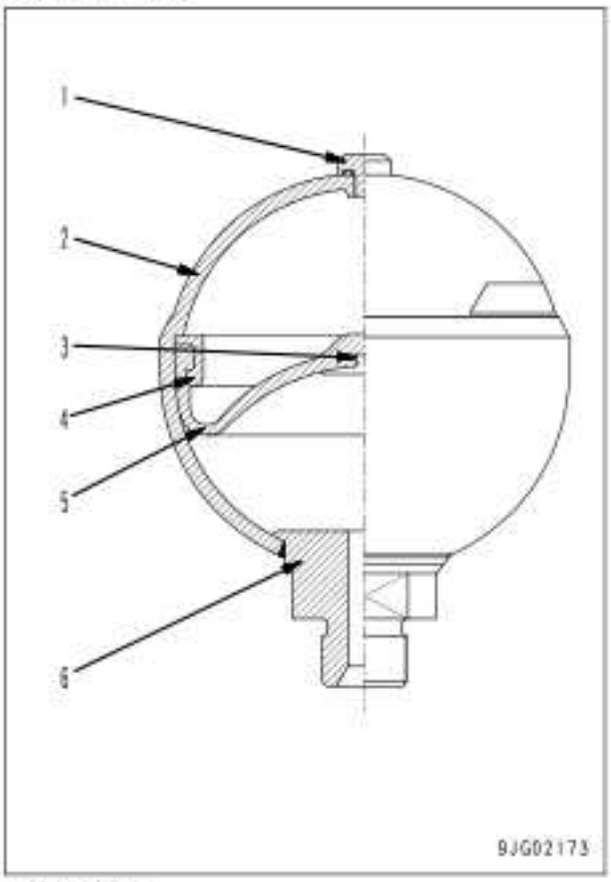
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Accumulator

For PPC valve



1. Gas plug
2. Shell
3. Poppet
4. Holder
5. Bladder
6. Oil port

Specifications

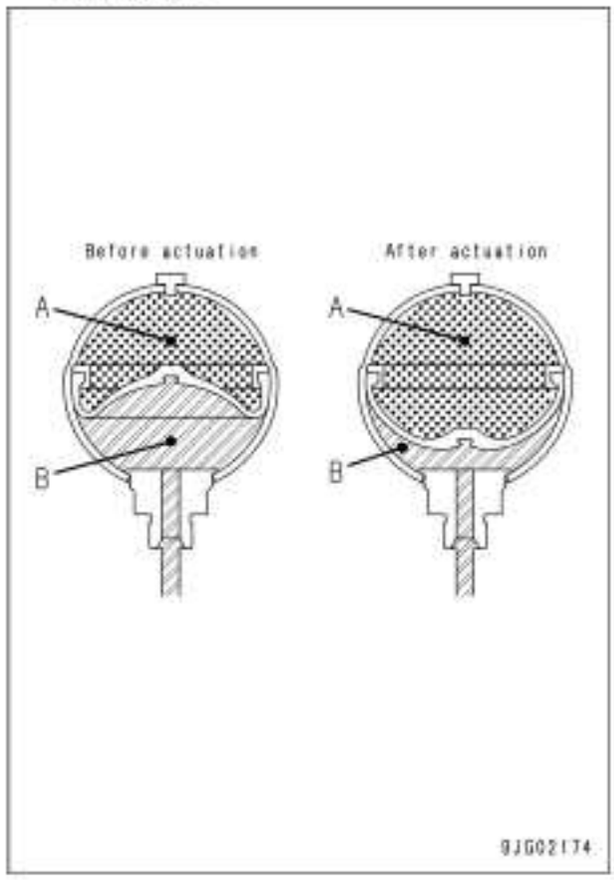
Type of gas: Nitrogen gas
Gas capacity: 300 cc
Max. actuating pressure: 3.1 MPa {32 kg/cm^2}
Min. actuating pressure: 1.2 MPa {12 kg/cm^2}

Function

- The accumulator is installed between the PPC control pump and the PPC valve. Even if the engine is stopped during the work equipment to be raised, pilot oil pressure can be supplied to the main control valve by the pressure of the compressed nitrogen gas in the accumulator. The work equipment can be lowered by its own weight.

Operation

- After the engine is stopped, when the PPC valve is at neutral, chamber (A) inside the bladder is compressed by the oil pressure in chamber (B).
- When the PPC valve is operated, oil pressure in chamber (B) goes 2.9 MPa {30 kg/cm^2} or less. Pressure of the nitrogen gas in chamber (A) causes the bladder to expand and oil from chamber (B) is sent as pilot pressure to actuate the control valve.



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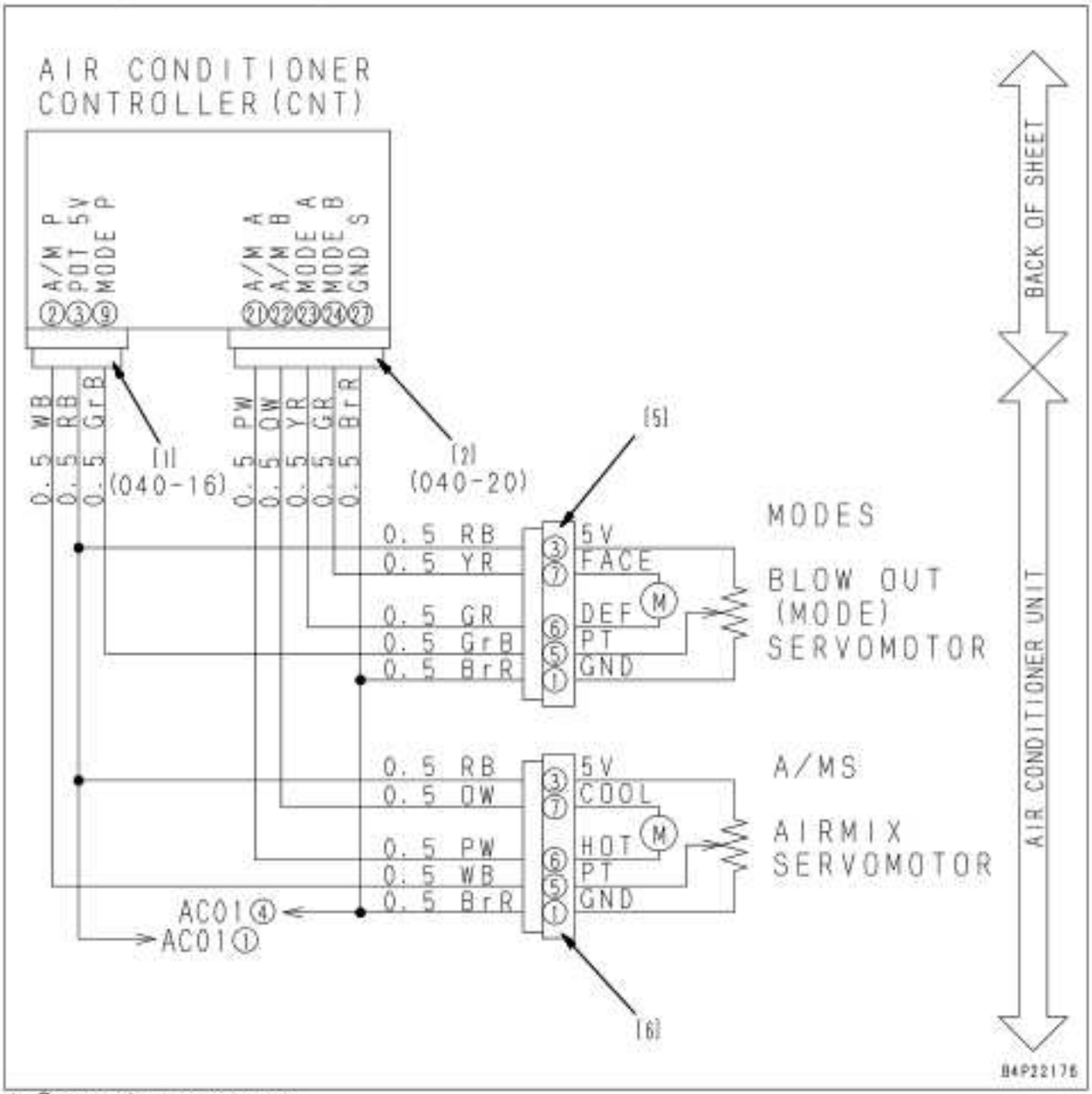
Failure code [CA554] Rail Press Sensor In Range Error

User code	Failure code	Failure	Common rail pressure sensor signal voltage out of input range (Engine controller system)
E11	**CA554**		
Detail of failure	• Signal voltage of common rail pressure sensor is out of input range.		
Action of controller	• Limits engine output (limits common rail pressure) and allows engine to run.		
Problem on machine	• Engine output lowers.		
Related information	• Signal voltage from common rail pressure sensor can be checked by using monitoring function. (Code: 36401 (V)) • Common rail pressure sensed by common rail pressure sensor can be checked by using monitoring function. (Code: 36400 (MPa)) • Method of reproducing failure code: Turn starting switch to ON position.		

Cause	Procedure, measuring location, criteria and remarks
Perform troubleshooting for failure code [**CA451**] and [**CA452**]	

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Circuit diagram related to temperature control



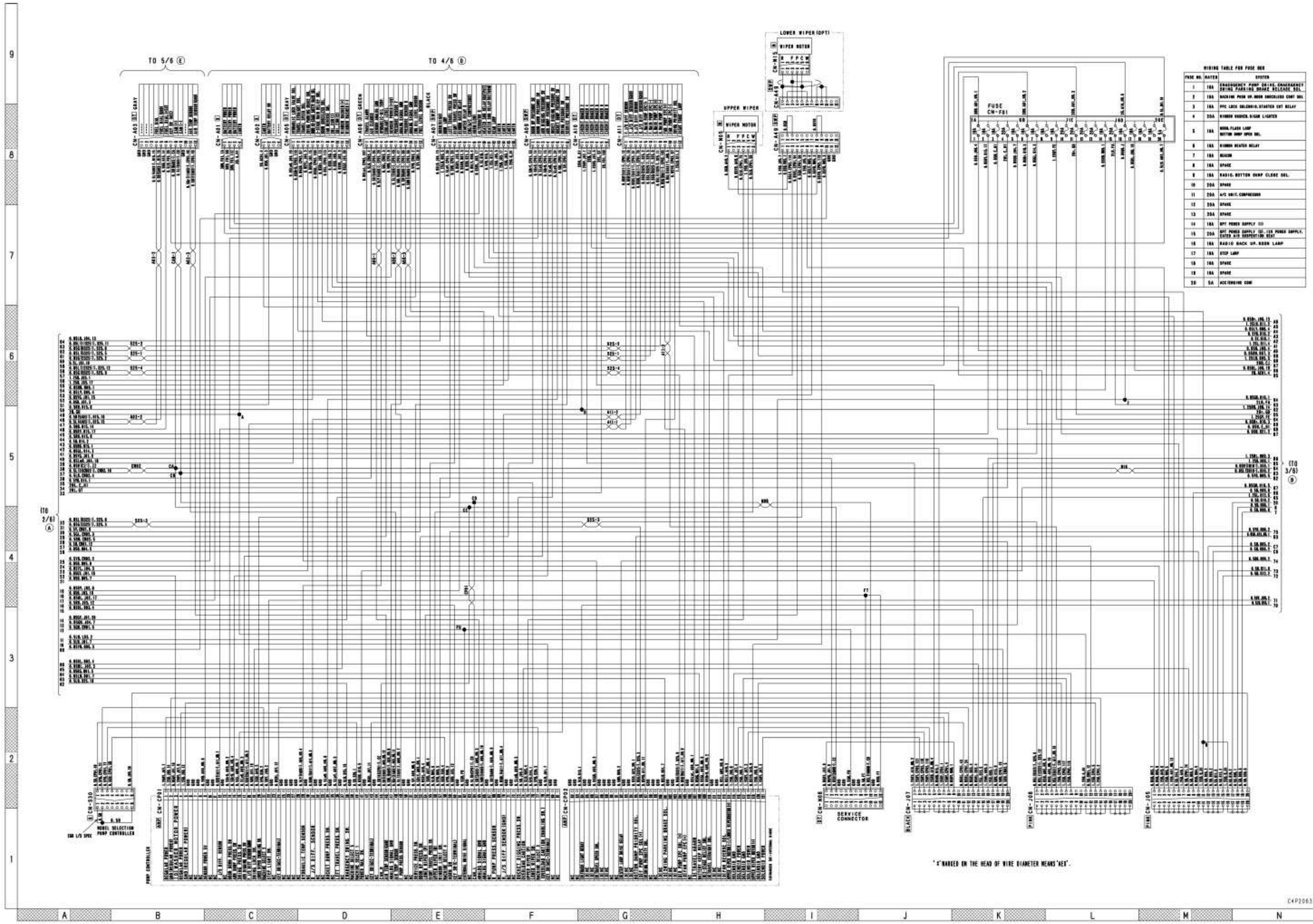
★ Servomotors are common.

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Electrical circuit diagram (1/6) L/S SPEC

PC800, 850-8E0

★ This figure covers the equipment and devices that are unavailable as optional items in some areas.



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