CRAWLER EXCAVATOR

SERVICE MANUAL

R340LC-7 (India)

HYUNDAI

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8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	HYUNDAI D6AC-C
Type	4-cycle turbocharged charger air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	130× 140mm(5.12" × 5.51")
Piston displacement	11149cc(680cu in)
Compression ratio	17 : 1
Rated gross horse power(SAE J1995)	276Hp at 1900rpm(206kW at 1900rpm)
Maximum torque	120kgf · m(868lbf · ft) at 1400rpm
Engine oil quantity	27.3 / (7.2U.S. gal)
Dry weight	920kg(2030lb)
Low idling speed	800± 50rpm
High idling speed	2050+ 50rpm
Rated fuel consumption	152.9g/Hp · hr at 1900rpm
Starting motor	24V-5.5kW
Alternator	24V-70A
Battery	2 × 12V × 160Ah

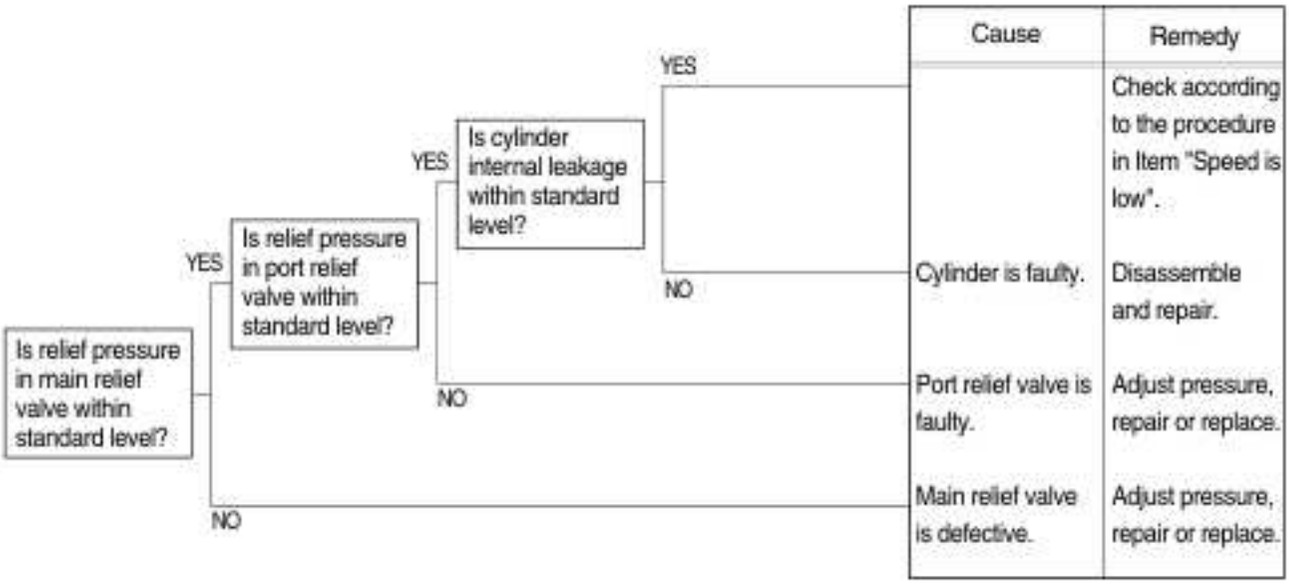
2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 149.5cc/rev
Maximum pressure	330kgf/cm² (4690psi)[360kgf/cm² (5120psi)]
Rated oil flow	2 × 254.2 / /min (67.2U.S. gpm/ 55.9U.K. gpm)
Rated speed	1700rpm

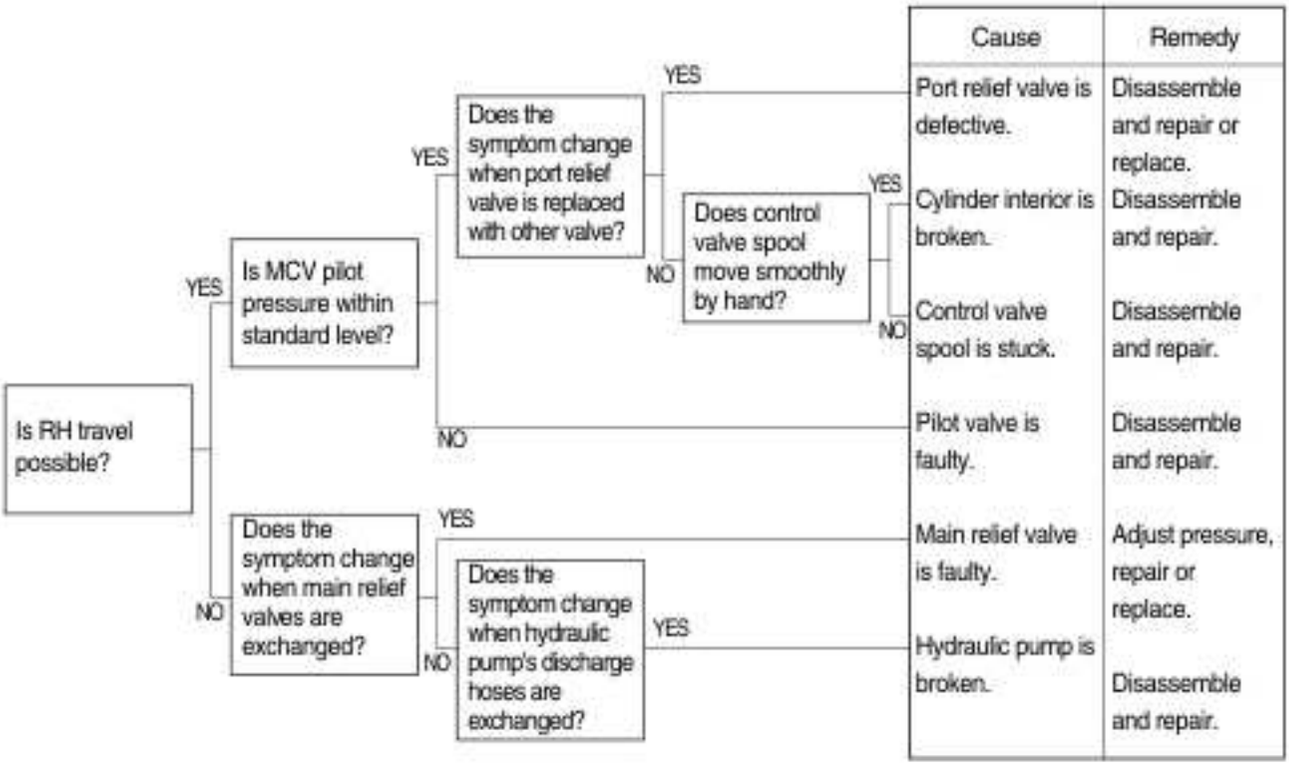
[ ]: Power boost

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4) BOOM, ARM OR BUCKET POWER IS WEAK



5) ONLY BUCKET OPERATION IS TOTALLY IMPOSSIBLE

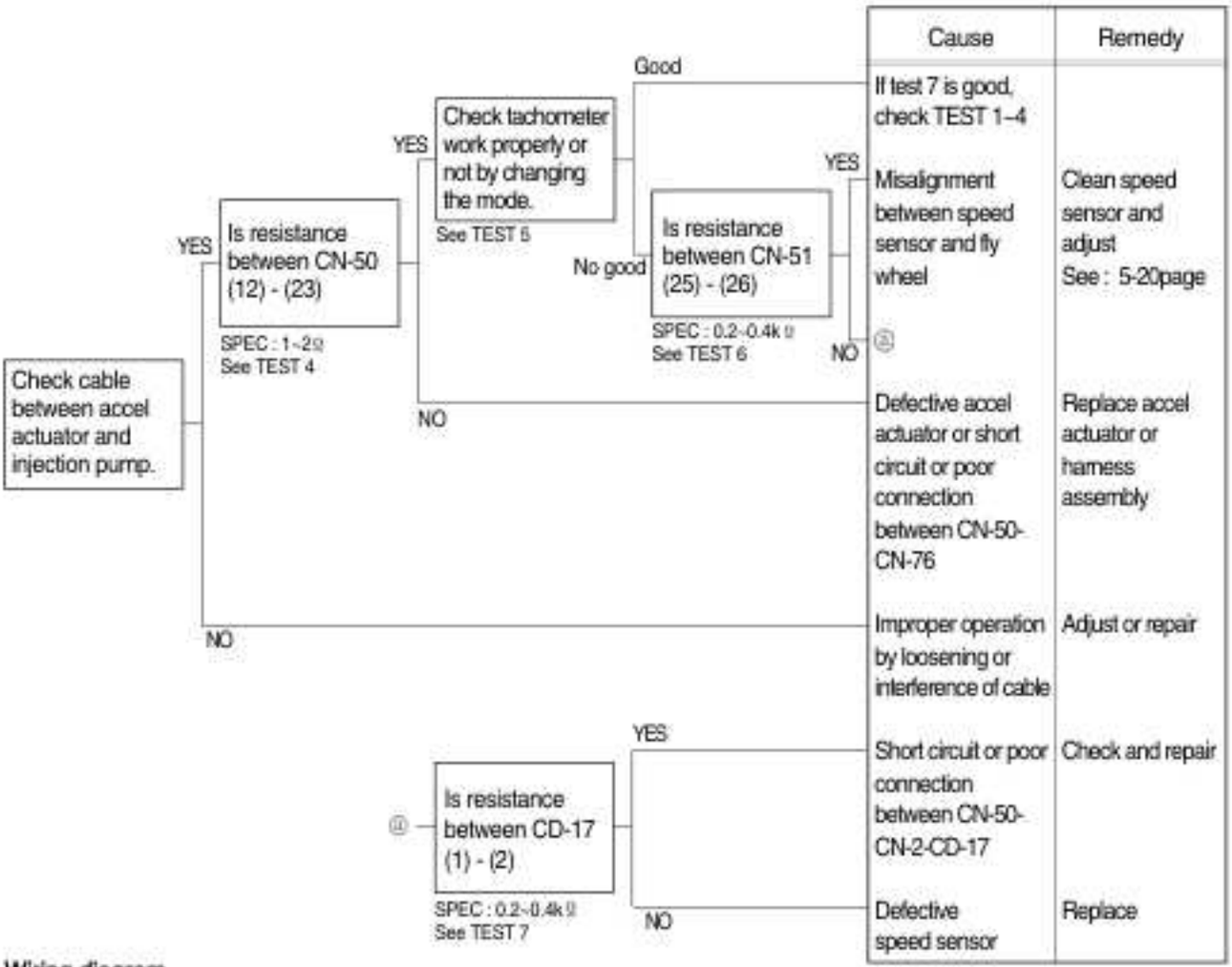


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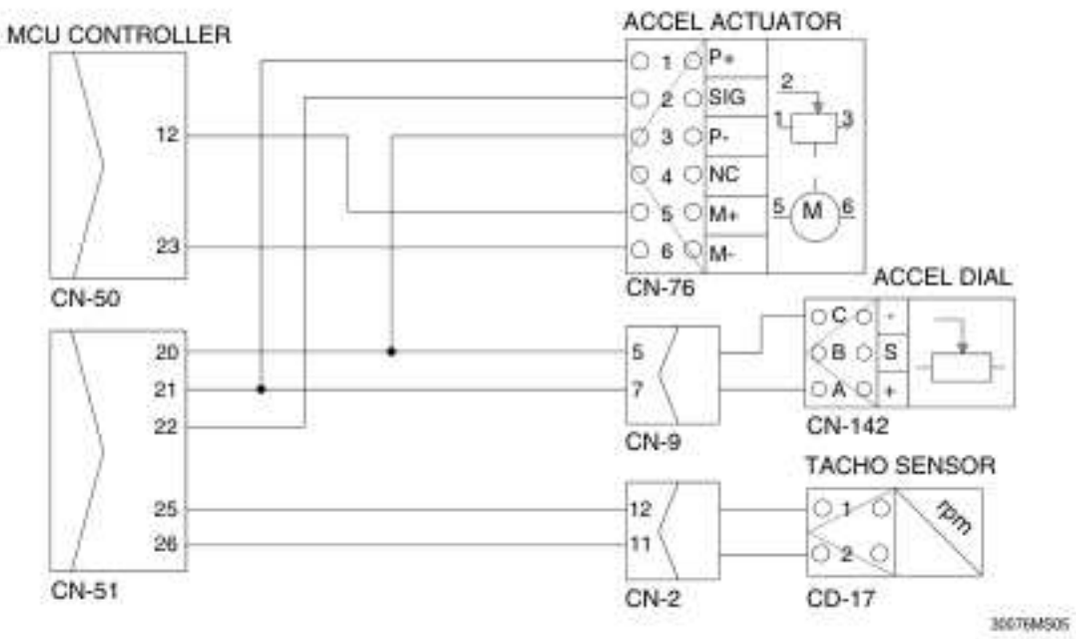
2. ENGINE SPEED IS SLOW AT ALL MODE

* Before carrying out below procedure, check all the related connectors are properly inserted.

1) INSPECTION PROCEDURE



Wiring diagram



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(28)Assemble piston ring(30), piston ring 252(30) and 278(31) into brake piston(29).



(29)Assemble brake piston into shaft casing.

* Be careful of the direction of assembling brake piston.



(30)Assemble brake spring(32).

* Quantity : Spring-10pieces, Holes-11pieces
* Do not assemble on the top of brake piston.



(31)Insert O-ring(69), after fastening orifice screw(4) with standard torque.

- Quantity and size : (4)2 pieces-ø 1.0
  (56)1pieces-ø 1.5
- Tightening torque : 7kgf · m (50.63lbf · ft)



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3) Warning of main operation screen

(1) Warning display

① Engine coolant temperature




- This lamp blinks and the buzzer sounds when the temperature of coolant is over the normal temperature 105°C (221°F) .
- Check the cooling system when the lamp blinks.

② Fuel level




- This lamp blinks and the buzzer sounds when the level of fuel is below 67 ℓ (17.7 U.S. gal).
- Fill the fuel immediately when the lamp blinks.

③ Hydraulic oil temperature




- This warning lamp operates and the buzzer sounds when the temperature of hydraulic oil is over 105 °C (221 °F) .
- Check the hydraulic oil level when the lamp blinks.
- Check for debris between oil cooler and radiator.

④ All gauge




- This lamp blinks and the buzzer sounds when the all gauge is abnormal.
- Check the each system when the lamp blinks.

⑤ Communication error



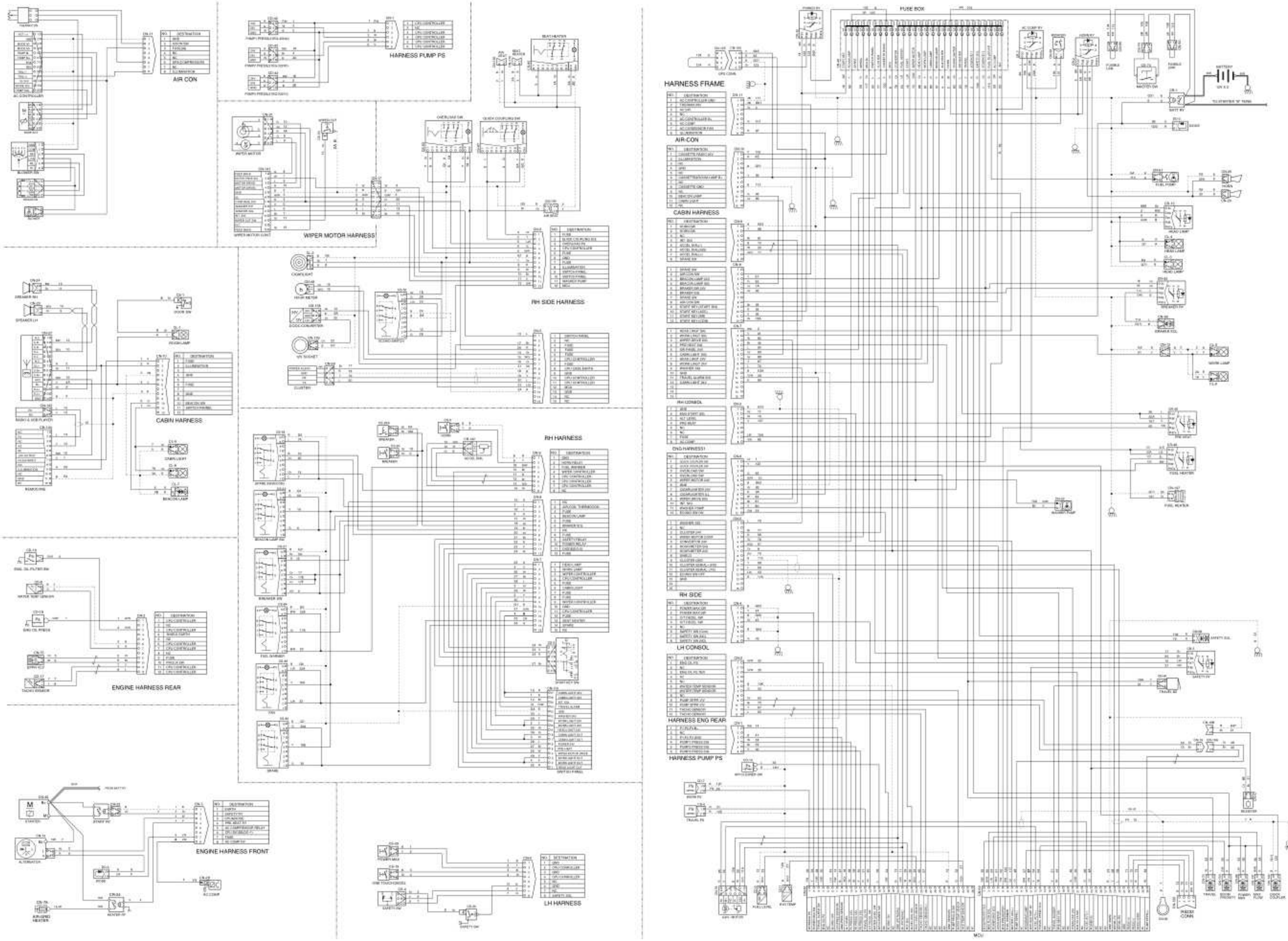
- Communication problem between MCU controller and cluster makes the lamp blinks and the buzzer sounds.
- Check if any fuse for MCU burnt off. If not check the communication line between them.

(2) Pop-up icon display

No	Switch	Selected mode	Display
1	Work mode switch	General work mode	
		Heavy duty work mode	
		Breaker operation mode	
2	Power mode switch	High power work mode	
		Standard power work mode	

No	Switch	Selected mode	Display
3	Auto deceleration switch	Light ON	
		Light OFF	
4	Travel speed control switch	Low speed	
		High speed	

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