SEN06591-05

Shop Manual

COMPACT
HYDRAULIC
EXCAVATOR

PC30MR-5
PC35MR-5

SERIAL NUMBERS PC30MR-50001 and up
PC35MR-30001

KOMATSU®

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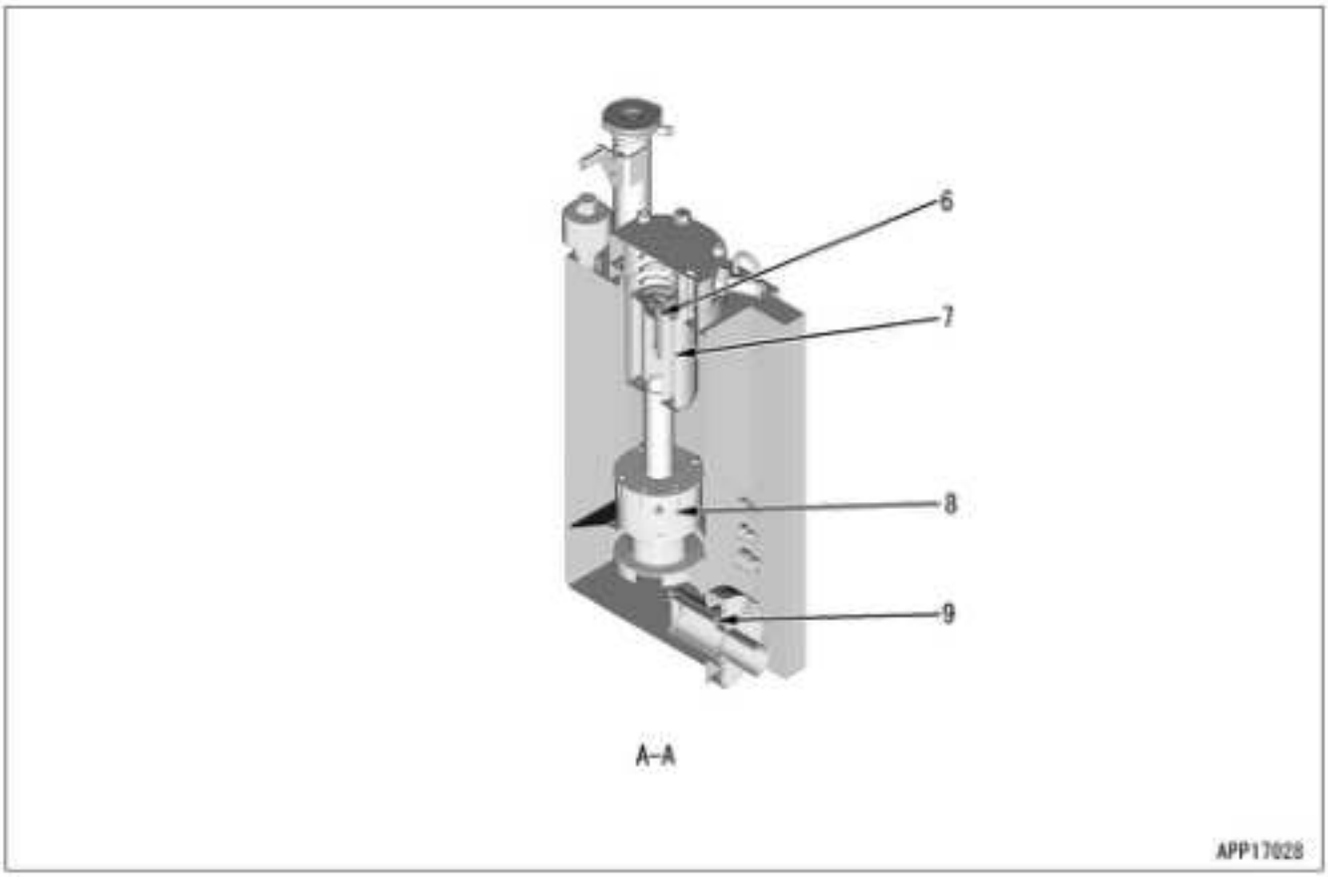
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Sectional view



6: Bypass valve
7: Filter
8: Cyclone assembly
9: Strainer

SPECIFICATIONS OF HYDRAULIC TANK

Hydraulic tank capacity: 21.8 ℓ

Hydraulic tank refill capacity: 13.5 ℓ

Bypass valve set pressure: 0.25±0.05 MPa {2.5±0.5 kg/cm^2}

Vacuum valve cracking pressure: 0 to 5 kPa {0 to 0.05 kg/cm^2}

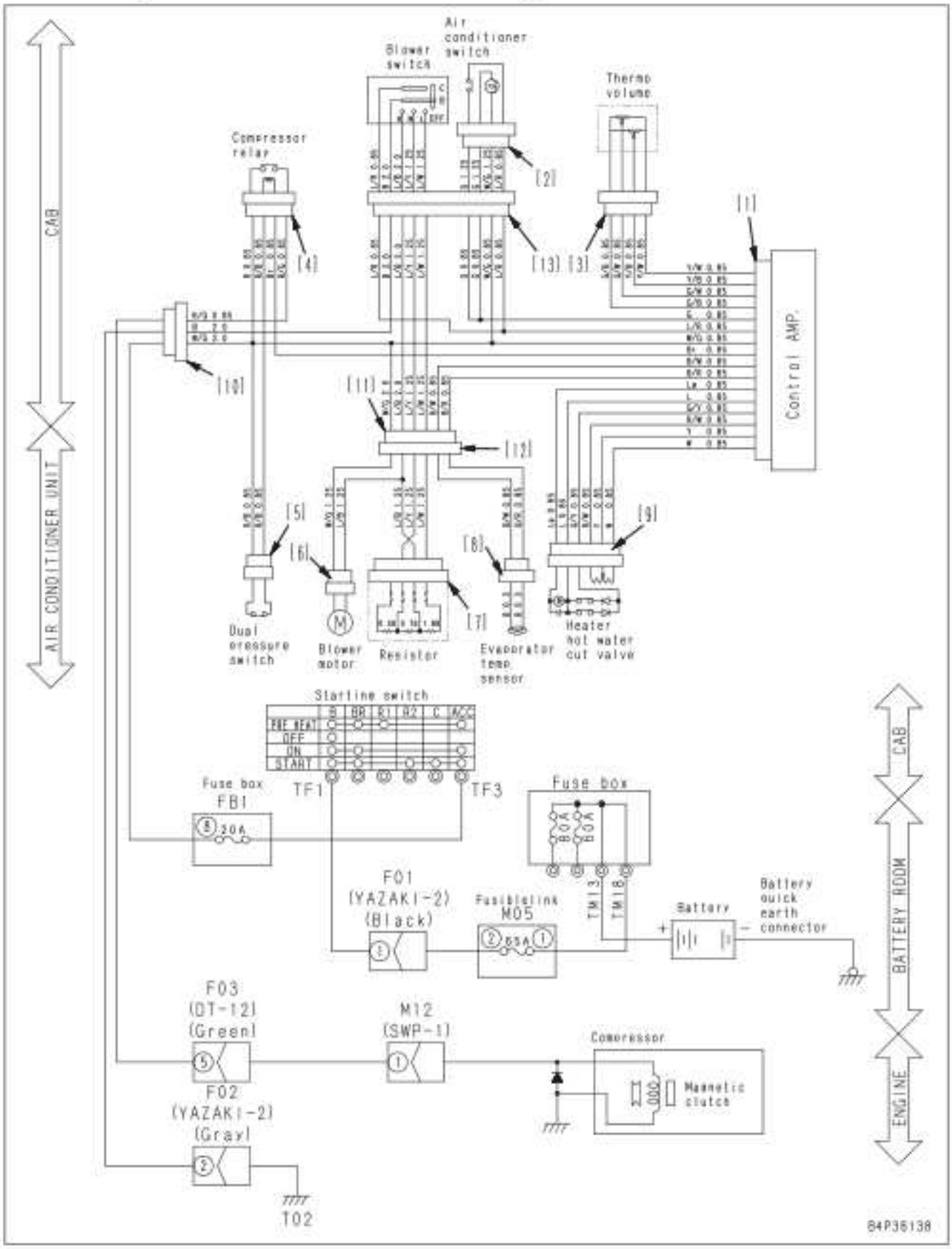
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SYMPTOMS OF FAILURE AND TROUBLESHOOTING NUMBERS

No.	Symptom of failure	Troubleshooting Index
	Action level and failure code	
1	Action level is displayed on the machine monitor. Press function switch [F3] to display "Current Abnormality"	Perform troubleshooting for failure code
2	Failure code is displayed on mechanical system abnormality record.	
3	Failure code is displayed on Electrical Sys Abnormality Record.	
	Symptom related to engine	
4	Engine does not start.	E-1, E-2
5	Engine does not crank when starting switch is turned to "START" position.	S-1
6	Engine cranks but no exhaust smoke comes out.	S-2
7	Fuel is being injected but engine does not start (misfiring: engine cranks but does not start).	S-3
8	Engine startability is poor.	S-4
9	Engine does not pick up smoothly.	S-5
10	Engine stops during operation.	S-6
11	Engine runs rough or is unstable.	S-7
12	Engine lacks power.	S-8
13	Engine oil consumption is excessive.	S-9
14	Oil becomes contaminated quickly.	S-10
15	Fuel consumption is excessive.	S-11
16	Oil is in coolant (or coolant spurts back or coolant level goes down).	S-12
17	Oil pressure drops.	S-13
18	Fuel mixes into engine oil.	S-14
19	Water mixes into engine oil (milky).	S-15
20	Coolant temperature rises too high (overheating).	S-16
21	Unusual noise is heard.	S-17
22	Vibration is excessive.	S-18
23	Air cannot be bled from fuel circuit.	S-19
24	Automatic preheating system does not work.	E-3
25	Auto-deceleration function does not operate or is not canceled while lever is operated.	E-16
	Symptom related to work equipment, and swing and travel and blade system	
26	All work equipment, travel, swing or blade does not operate.	H-1
27	All work equipments or travel does not operate.	H-2
28	Travel or blade does not operate.	H-3
29	Swing or blade does not operate.	H-4
30	All work equipment, travel, swing and blade speed or power is low.	H-5
31	All work equipment and travel speed or power is low.	H-6

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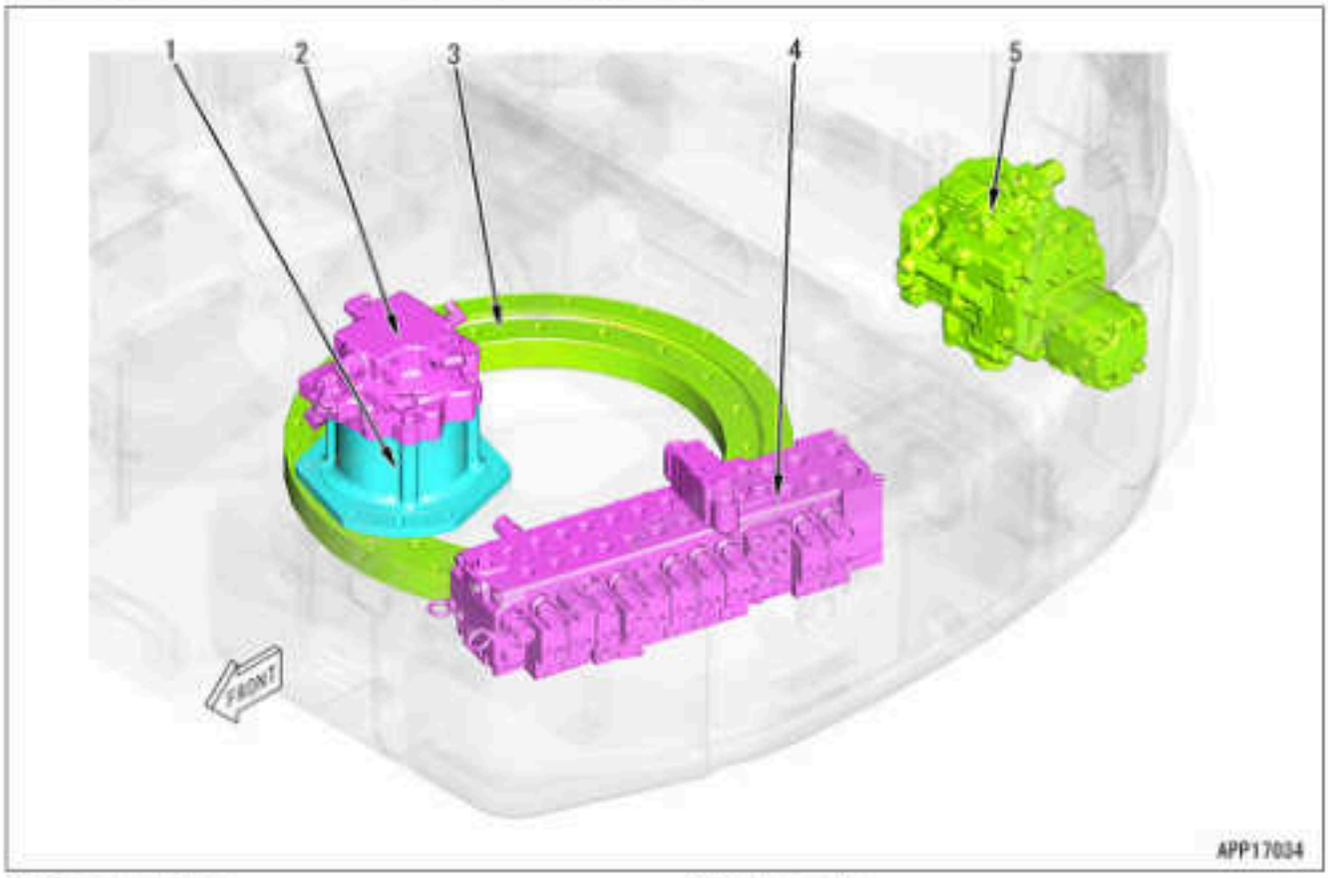
Circuit diagram related to blower motor system



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SWING SYSTEM

LAYOUT DRAWING OF SWING SYSTEM



1. Swing machinery
2: Swing motor
3. Swing circle
4: Control valve
5: Main pump

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CAB AND ITS ATTACHMENTS

ROPS CAB

ROPS

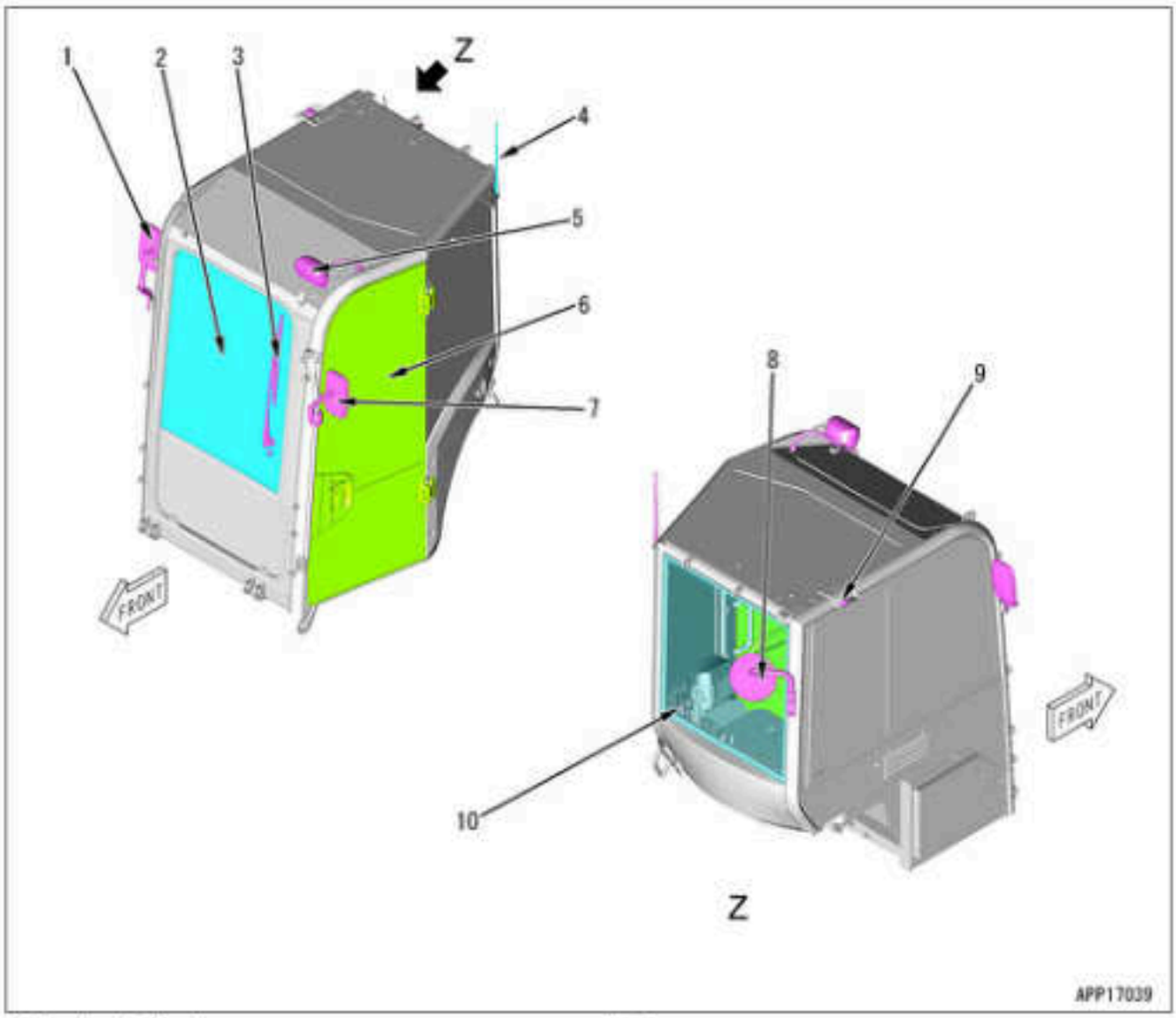
Abbreviation for Roll-Over Protective Structure

STRUCTURE OF ROPS CAB

REMARK

The figure shows the cab specifications.

General view



1: Machine R.H. mirror
2: Front window
3: Windshield wiper
4: Radio antenna
5: Headlamp
6: Door
7: Machine L.H. mirror
8: Machine R.H. rear mirror
9: KOMTRAX communication antenna
10: KOMTRAX GPS antenna

FUNCTION OF ROPS CAB

ROPS cab protects the operator wearing seat belt from being crushed when the machine rolls over.

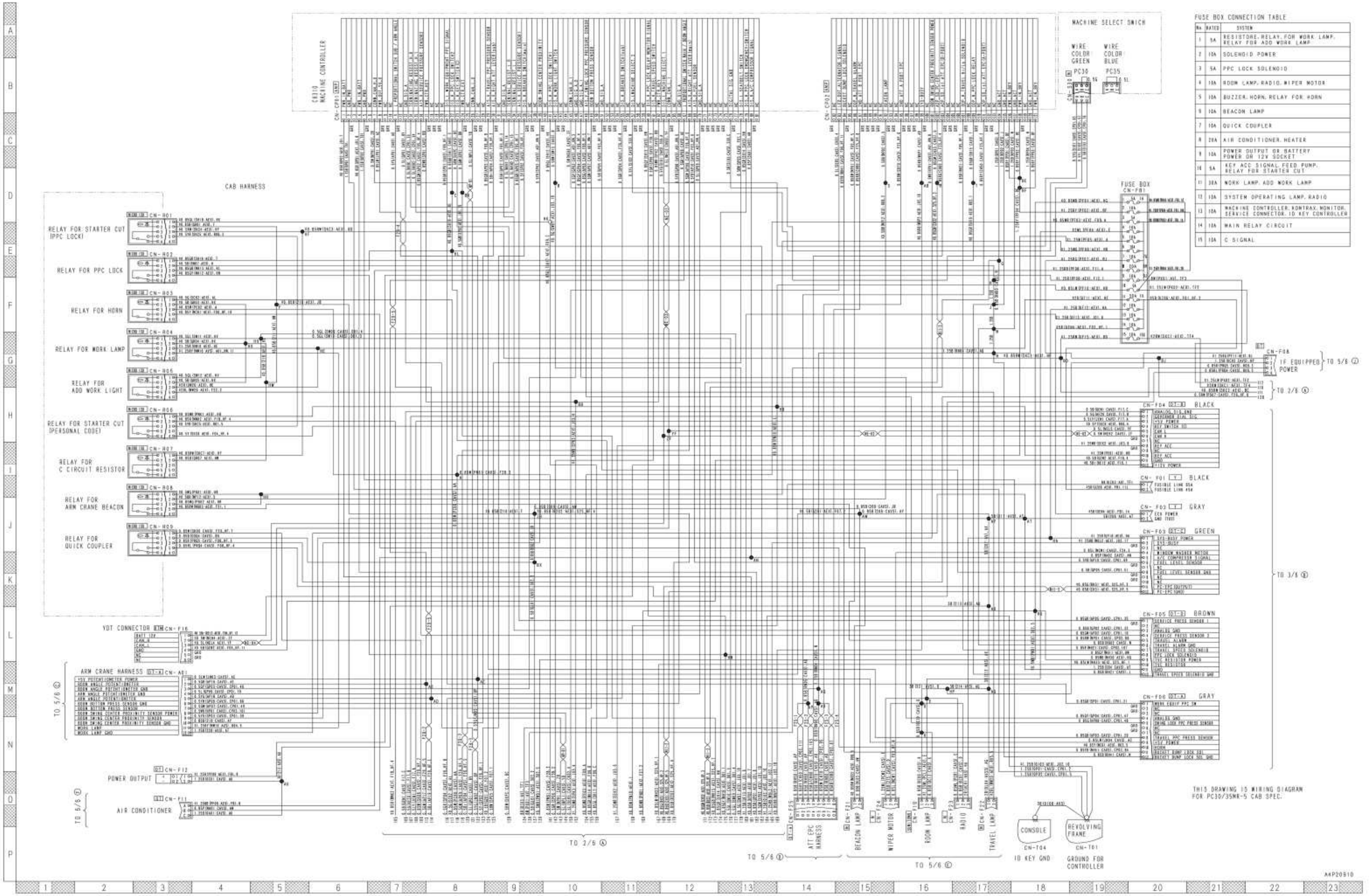
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ELECTRICAL CIRCUIT DIAGRAM (CAB SPECIFICATIONS, QUICK COUPLER SPECIFICATIONS) (1/6)

PC30MR-5, PC35MR-5

REMARK

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



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