CRAWLER EXCAVATOR

SERVICE MANUAL

R110 (India)

HYUNDAI

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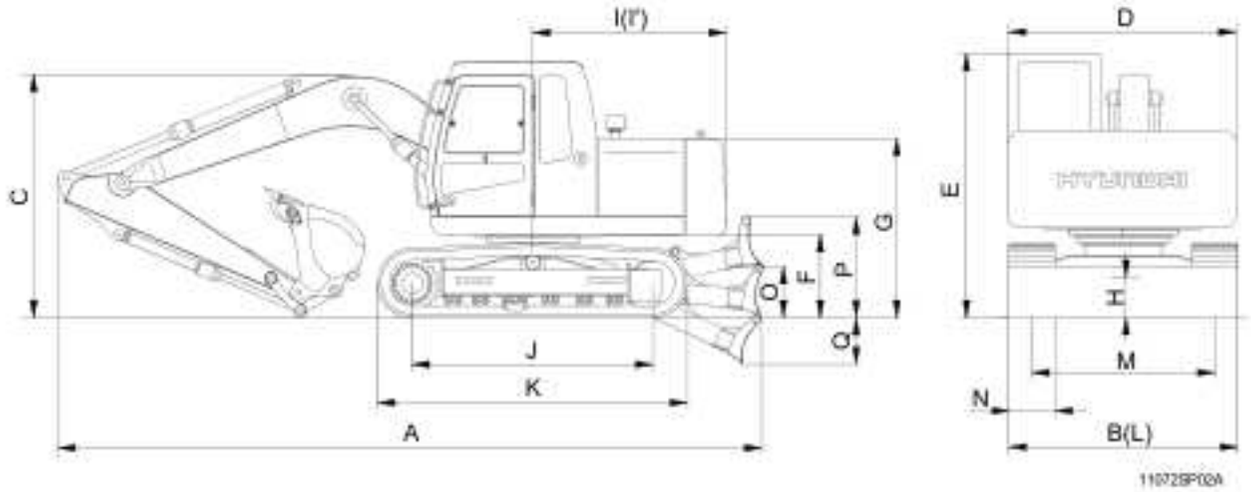
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2) R110

(1) 4.3m(14' 1") MONO BOOM, 2.26m(7' 5") ARM AND REAR DOZER BLADE



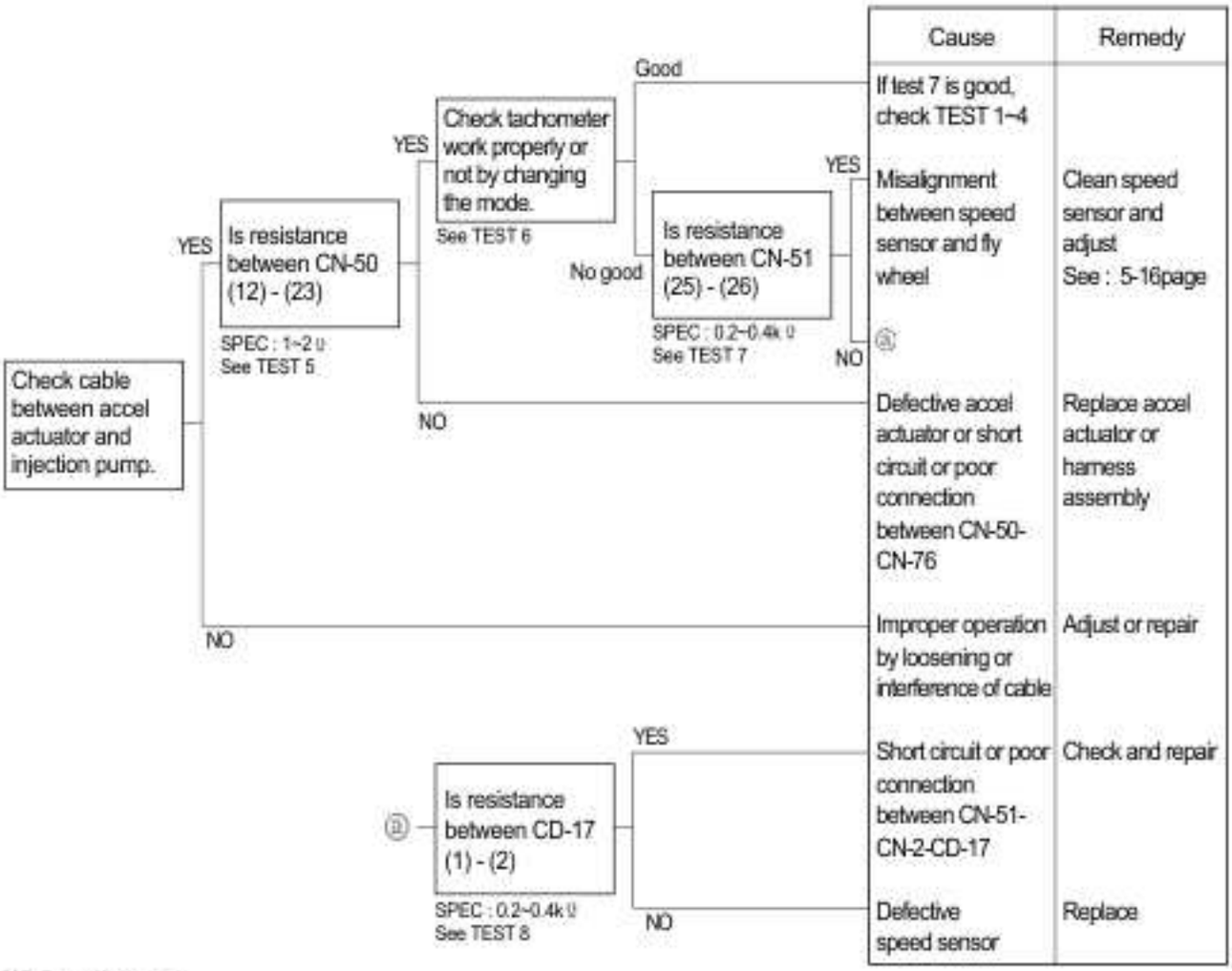
Description		Unit	Specification
Operating weight		kg(lb)	11800(26222)
Bucket capacity(SAE heaped), standard		m³(yd³)	0.60(0.78)
Overall length	A	mm(ft-in)	7620(25' 0")
Overall width, with 500mm shoe	B		2490(8' 2")
Overall height	C		2550(8' 4")
Superstructure width	D		2475(8' 1")
Overall height of cab	E		2800(9' 2")
Ground clearance of counterweight	F		900(2' 11")
Engine cover height	G		1990(6' 6")
Minimum ground clearance	H		440(1' 5")
Rear-end distance	I		2110(6' 11")
Rear-end swing radius	I'		2130(7' 0")
Distance between tumblers	J		2610(8' 7")
Undercarriage length	K		3340(10' 11")
Undercarriage width	L		2490(8' 2")
Track gauge	M		1990(6' 6")
Track shoe width, standard	N		500(20")
Height of blade	O		550(1' 10")
Ground clearance of blade up	P		500(1' 8")
Depth of blade down	Q		520(1' 8")
Travel speed(Low/high)		km/hr(mph)	3.4/5.5(2.1/3.4)
Swing speed		rpm	12.0
Gradeability		Degree(%)	35(70)
Ground pressure(500mm shoe)		kgf/cm²(psi)	0.42(5.97)

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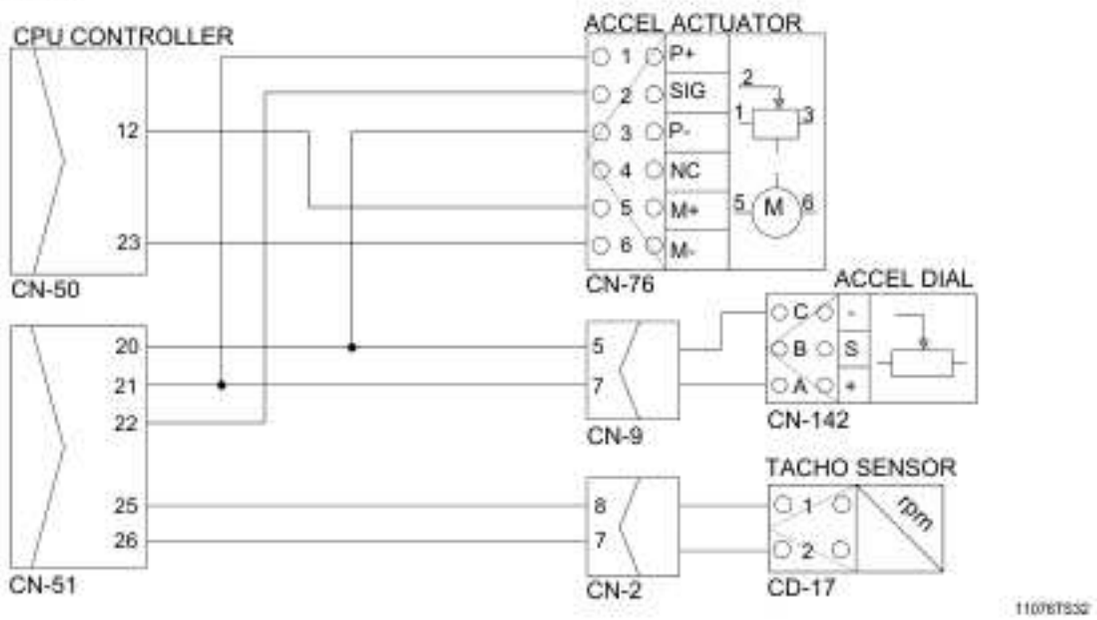
2. ENGINE SPEED IS SLOW AT ALL MODE

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

1) INSPECTION PROCEDURE

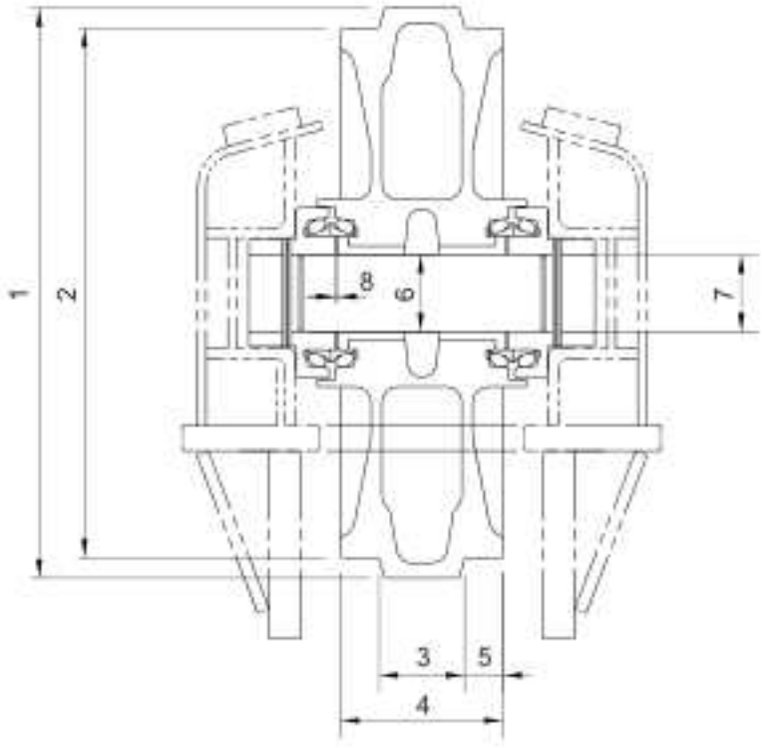


Wiring diagram



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3) IDLER



21037MB03

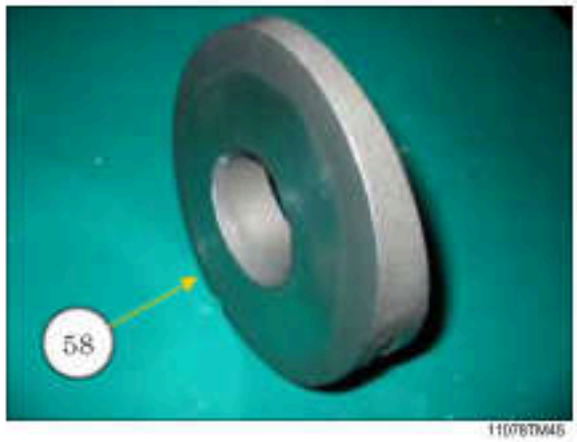
Unit : mm

No.	Check item	Criteria				Remedy
1	Outside diameter of protrusion	Standard size		Repair limit		Rebuild or replace
		ø 510		-		
2	Outside diameter of tread	ø 470		ø 460		
3	Width of protrusion	67		-		
4	Total width	135		-		
5	Width of tread	34		39		
6	Clearance between shaft and bushing	Standard size & tolerance		Standard clearance	Clearance limit	Replace bushing
		Shaft	Hole			
		ø 70 $^{0}_{-0.03}$	ø 70.3 $^{+0.05}_{0}$	0.3 to 0.38	2.0	
7	Clearance between shaft and support	ø 70 $^{0}_{-0.03}$	ø 70 $^{+0.07}_{+0.03}$	0.03 to 0.1	1.2	Rebuild or Replace
8	Side clearance of idler (Both side)	Standard clearance		Clearance limit		Replace bushing
		0.25~1.15		2.0		

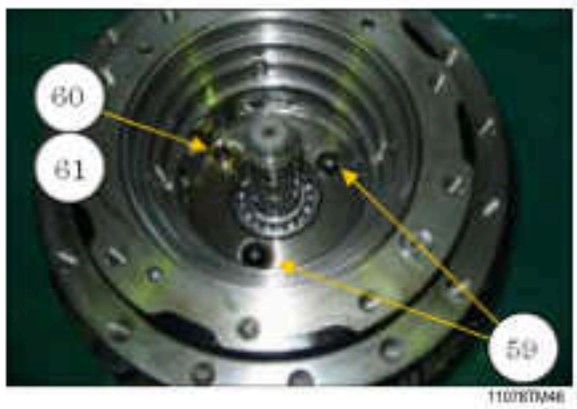
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(31) Remove cam(58) from the body casing.





(32) Remove two steel balls(59) and piston(60) from the body casing. Remove the spring(61) behind the piston.

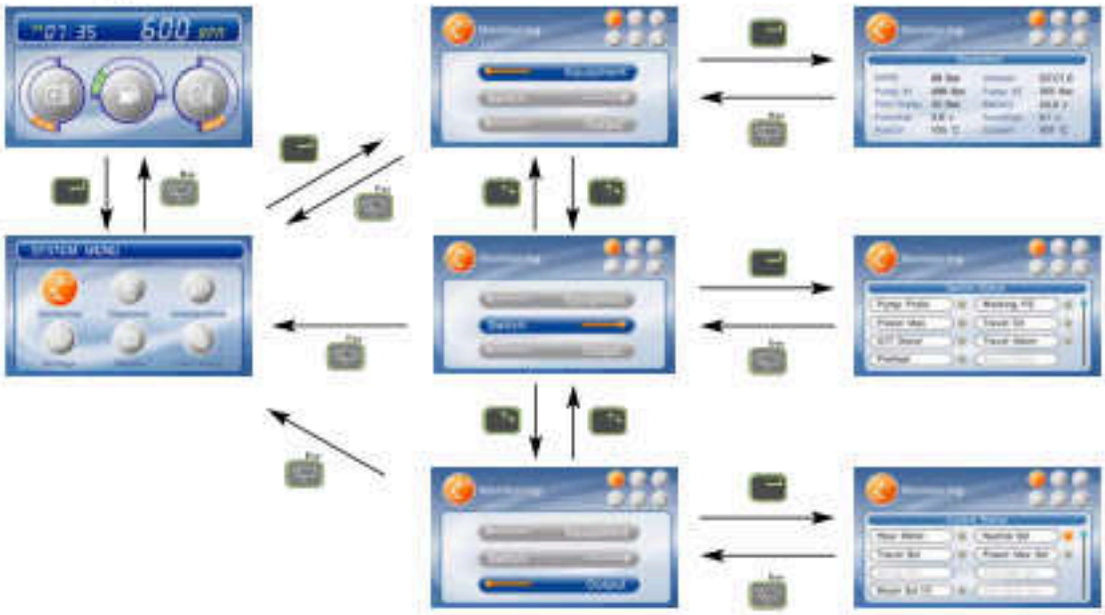




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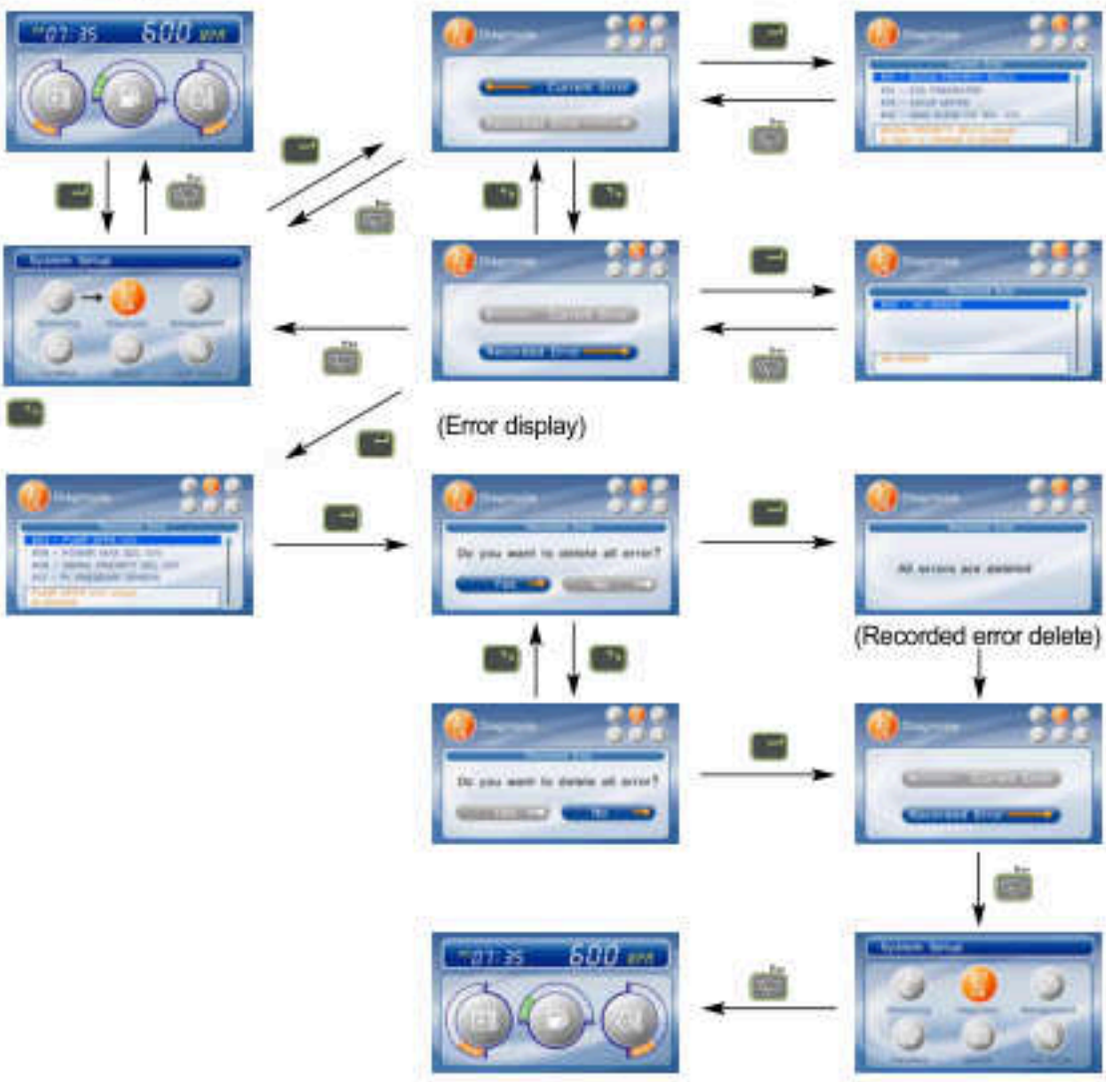
(2) Display map

① Monitoring

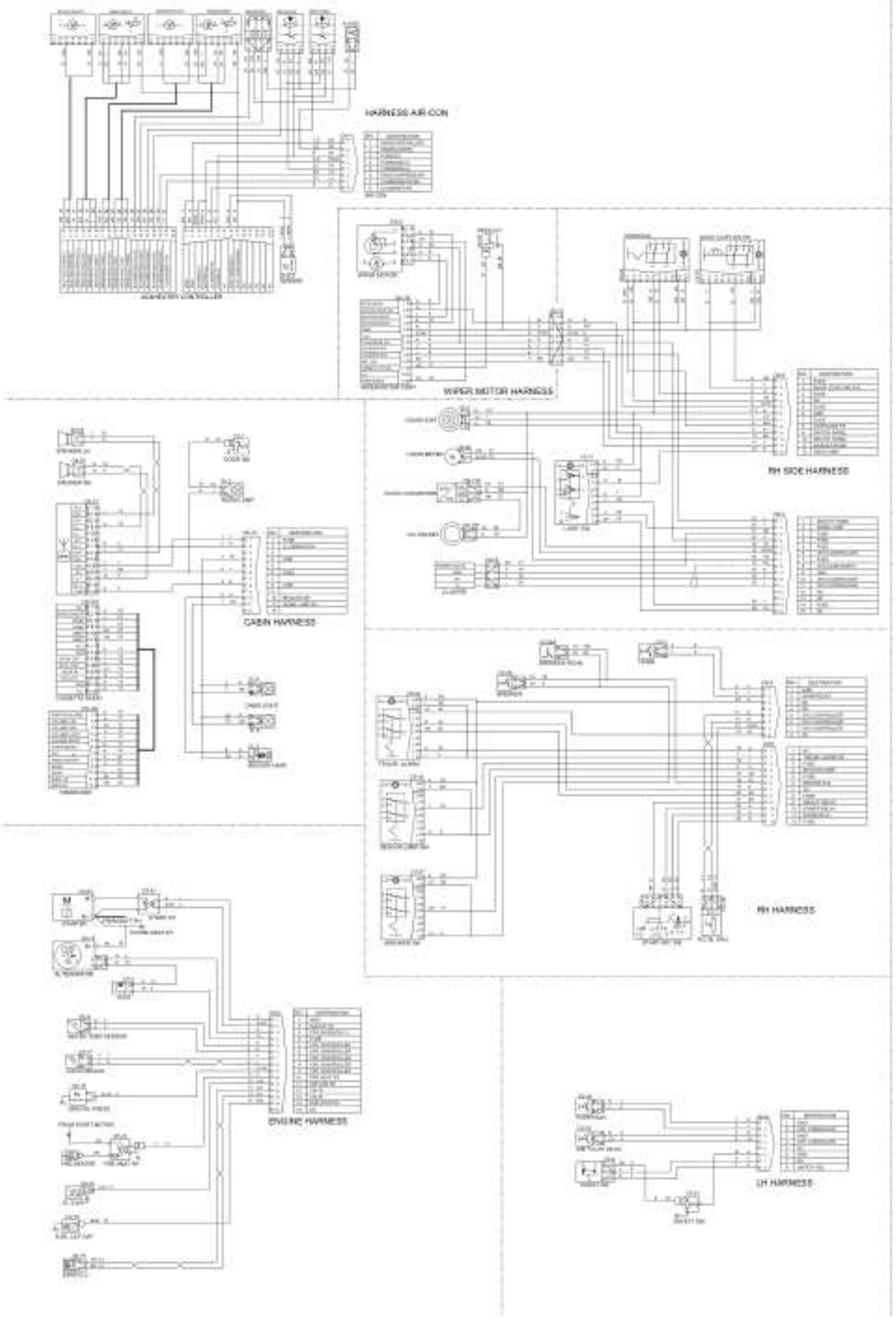


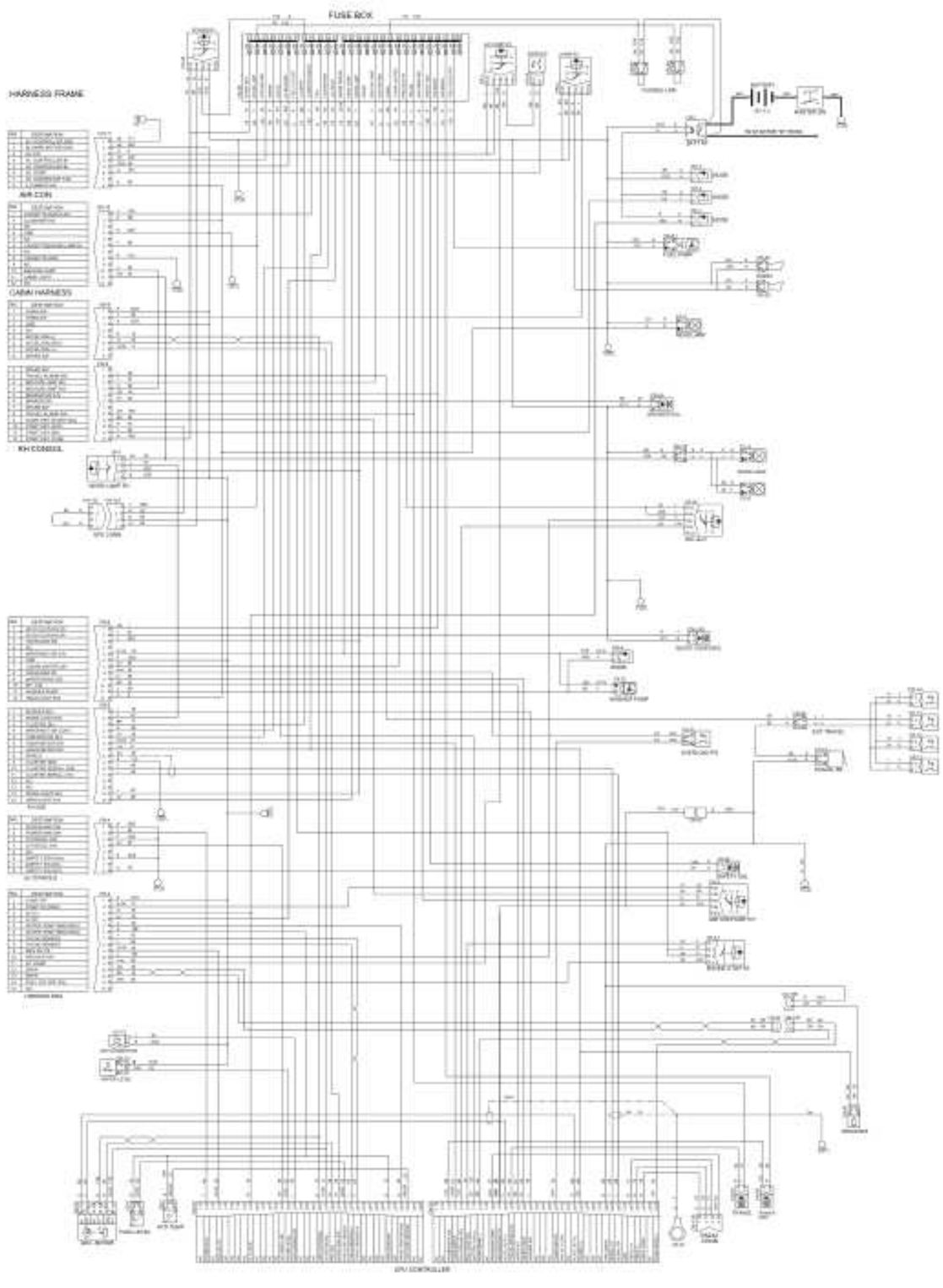
② Diagnosis

a. Protocol type 1



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