CRAWLER EXCAVATOR

SERVICE MANUAL

HX19A

HYUNDAI

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CONTENTS

SECTION 1 GENERAL

Group 1 Safety Hints 1-1
Group 2 Specifications 1-9

SECTION 2 STRUCTURE AND FUNCTION

Group 1 Pump Device 2-1
Group 2 Main Control Valve 2-6
Group 3 Swing Device 2-35
Group 4 Travel Device 2-44
Group 5 RCV Lever 2-54
Group 6 RCV Pedal 2-63

SECTION 3 HYDRAULIC SYSTEM

Group 1 Hydraulic Circuit 3-1
Group 2 Main Circuit 3-3
Group 3 Pilot Circuit 3-6
Group 4 Single Operation 3-11
Group 5 Combined Operation 3-23

SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location 4-1
Group 2 Monitoring system 4-3
Group 3 Electrical Circuit 4-23
Group 4 Electrical Component Specification 4-35
Group 5 Connectors 4-40

SECTION 5 TROUBLESHOOTING

Group 1 Before Troubleshooting 5-1
Group 2 Hydraulic and Mechanical System 5-4
Group 3 Electrical System 5-24

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SECTION 6 MAINTENANCE STANDARD

Group 1 Operational Performance Test 6-1
Group 2 Major Components 6-20
Group 3 Track and Work Equipment 6-30

SECTION 7 DISASSEMBLY AND ASSEMBLY

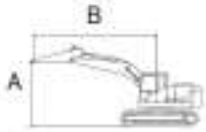
Group 1 Precaution 7-1
Group 2 Tightening Torque 7-4
Group 3 Pump Device 7-7
Group 4 Main Control Valve 7-20
Group 5 Swing Device 7-34
Group 6 Travel Device 7-50
Group 7 RCV Lever 7-80
Group 8 Turning Joint 7-96
Group 9 Boom, Arm and Bucket Cylinder 7-101
Group 10 Undercarriage 7-121
Group 11 Work Equipment 7-132

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2) CAB TYPE

Model	Type	Boom	Arm	Counterweight	Rubber shoe	Wheel	Dozer		Outtriger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX19A	Cab	1750	1030	65	230	-	Up	-	-	-

· : Rating over-front · : Rating over-side or 360 degree



Load point height (A)		Load radius (B)						At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (9.8 ft)		Capacity		Reach
										m (ft)
2.5 m (8.2 ft)	kg			*370	*370			*350	*350	2.77
	lb			*820	*820			*770	*770	(9.1)
2.0 m (6.6 ft)	kg			*380	*380	350	330	*330	310	3.10
	lb			*840	*840	770	730	*730	680	(10.2)
1.5 m (4.9 ft)	kg	*510	*510	*440	430	350	330	300	280	3.30
	lb	*1120	*1120	*970	950	770	730	660	620	(10.8)
1.0 m (3.3 ft)	kg	620	580	440	420	340	320	280	270	3.39
	lb	1370	1280	970	930	750	710	620	600	(11.1)
0.5 m (1.6 ft)	kg	590	560	430	410	330	320	280	270	3.39
	lb	1300	1230	950	900	730	710	620	600	(11.1)
0.0 m (0.0 ft)	kg	580	550	420	400	330	310	290	280	3.29
	lb	1280	1210	930	880	730	680	640	620	(10.8)
-0.5 m (-1.6 ft)	kg	580	540	420	400	330	310	320	300	3.08
	lb	1280	1190	930	880	730	680	710	660	(10.1)
-1.0 m (-3.3 ft)	kg	580	550	420	400			380	360	2.73
	lb	1280	1210	930	880			840	790	(9.0)
-1.5 m (-4.9 ft)	kg	*500	*500					*430	*430	2.14
	lb	*1100	*1100					*950	*950	(7.0)

Note 1. Lifting capacity are based on ISO 10567.
2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *Indicates load limited by hydraulic capacity.

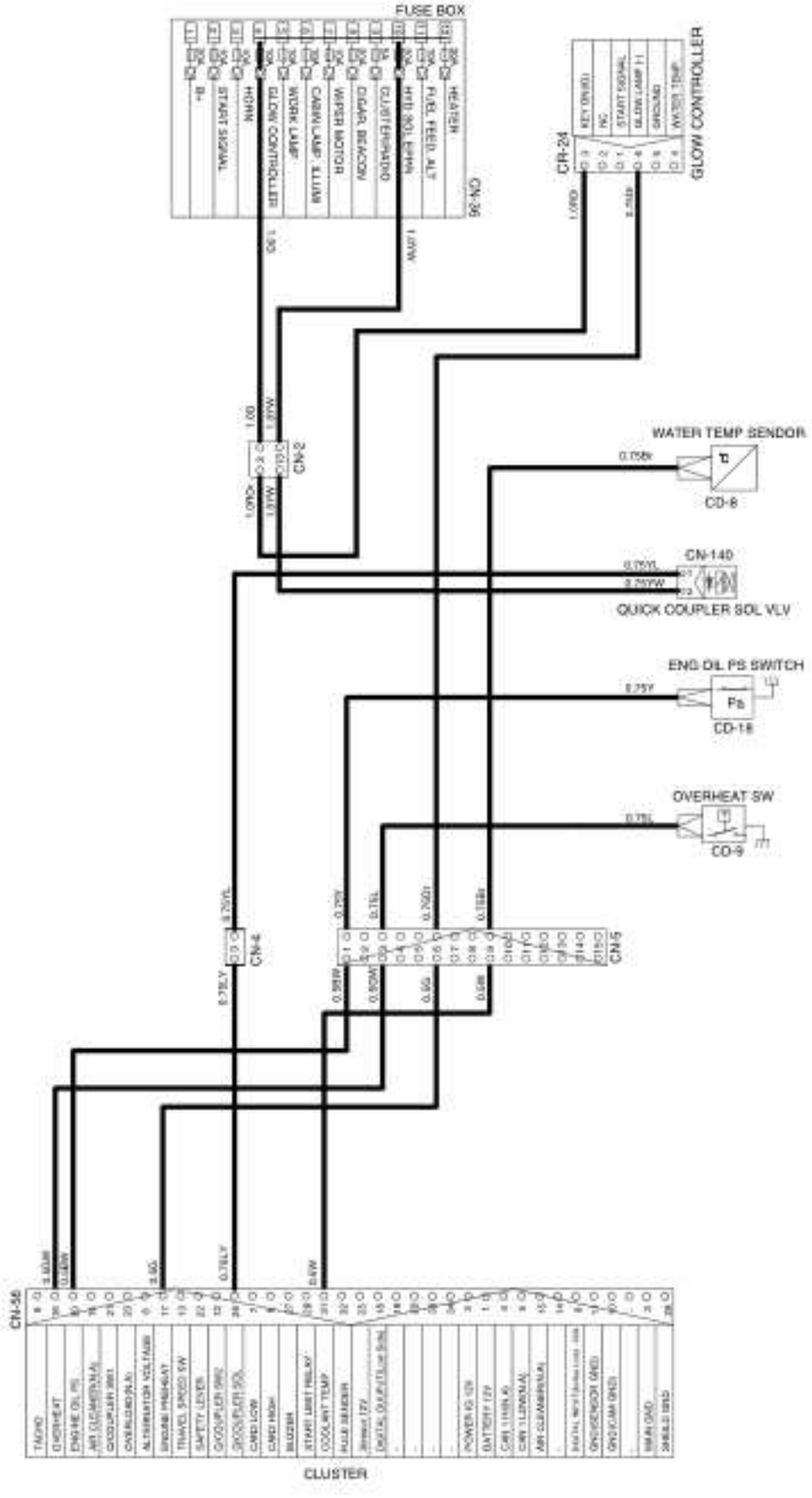
※ Lifting capacities are based upon a standard machine conditions.
Lifting capacities will vary with different work tools, ground conditions and attachments.
The difference between the weight of a work tool attachment must be subtracted.
Consult with your local HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

※ Please be aware of the local regulations and instructions for lifting operations.

⚠ Failure to comply to the rated load can cause serious injury, death, or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

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MONITORING CIRCUIT



※ The circuit diagram may differ from the equipment, so please check before a repair.

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SECTION 5 TROUBLESHOOTING

Group 1 Before Troubleshooting 5-1
Group 2 Hydraulic and Mechanical System 5-4
Group 3 Electrical System 5-24

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(13) Assemble the swash plate.

※ Assemble the swash plate and push rod along the contact surface, and make sure that the push rod is not pressed.

※ Direction of assembly: clockwise.



(14) Assemble the hex nut.

※ Direction of assembly: clockwise.



(15) Assemble the hex nut with the torque wrench.

- Tightening torque : 8kgf·m (57.9 lbf·ft)

※ Direction of assembly of upper torque wrench: clockwise.



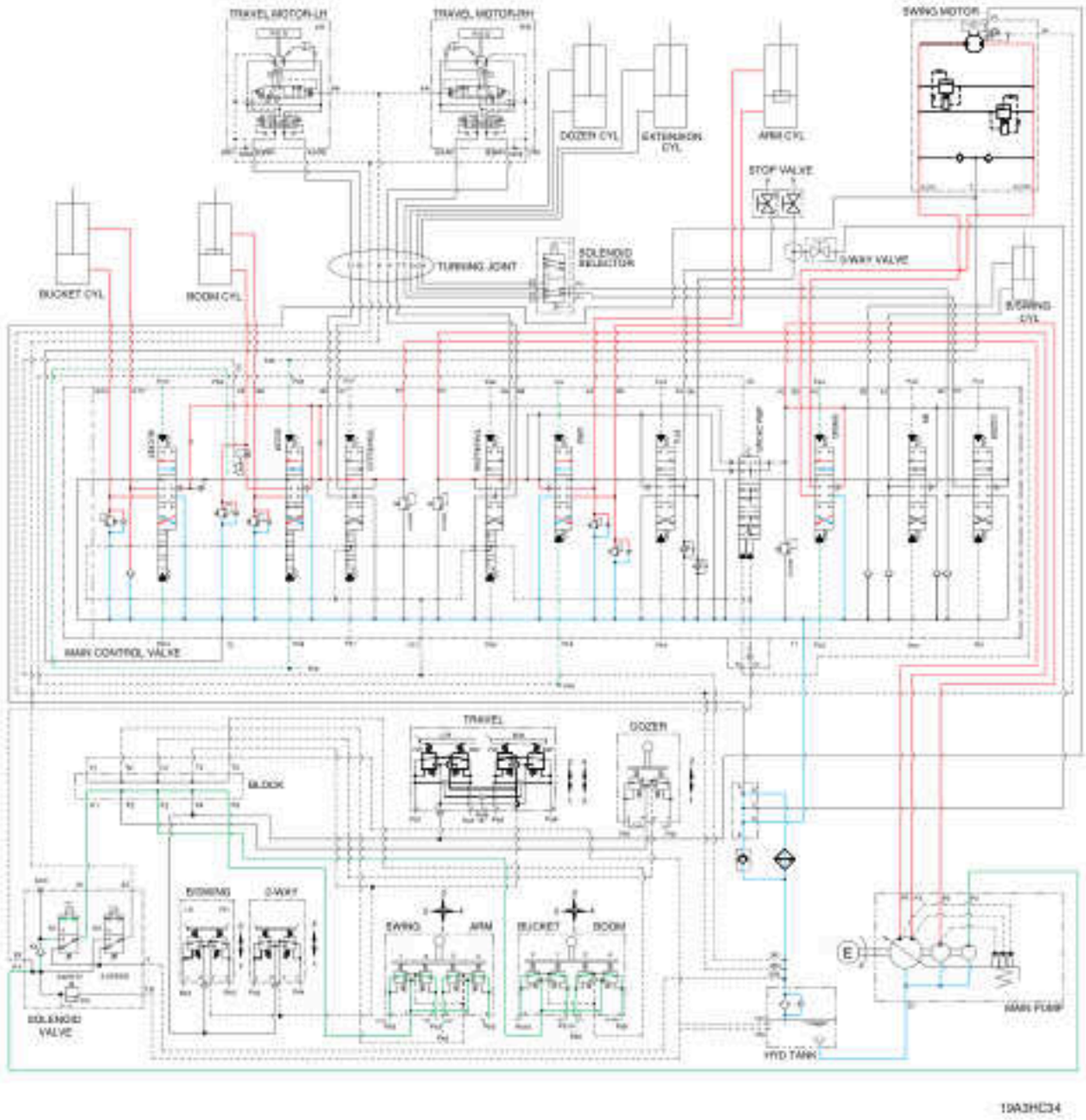
(16) Assemble the inner boots.

※ Insert the boots between the plate and body.



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5. COMBINED SWING, BOOM, ARM AND BUCKET OPERATION

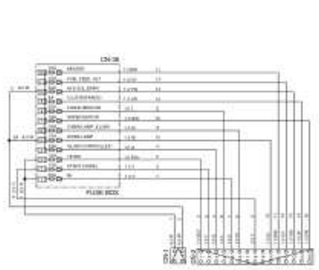


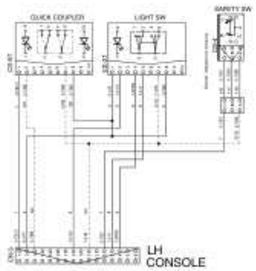
When the swing, boom, arm and bucket functions are operated, simultaneously each spool in the main control valve is moved to the functional position by the pilot oil pressure (Pa3, Pb3, Pa8, Pb8, Pa5, Pb5, Pa10, Pb10) from the remote control valve.
The oil from the P2 pump flows into the arm cylinder through, arm spool.
The oil from the P1 pump flows into the boom cylinder and bucket cylinder through the boom spool, bucket spool.
The oil from the P3 pump flows into the swing motor through the swing spool.
The superstructure swings and the boom, arm and bucket are operated.

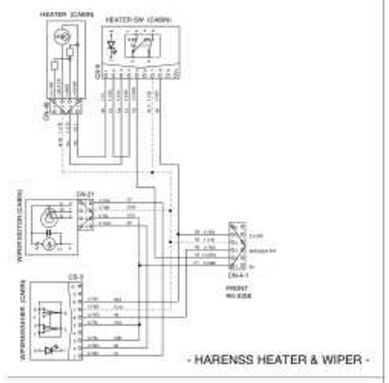
※ The circuit diagram may differ from the equipment, so please check before a repair.

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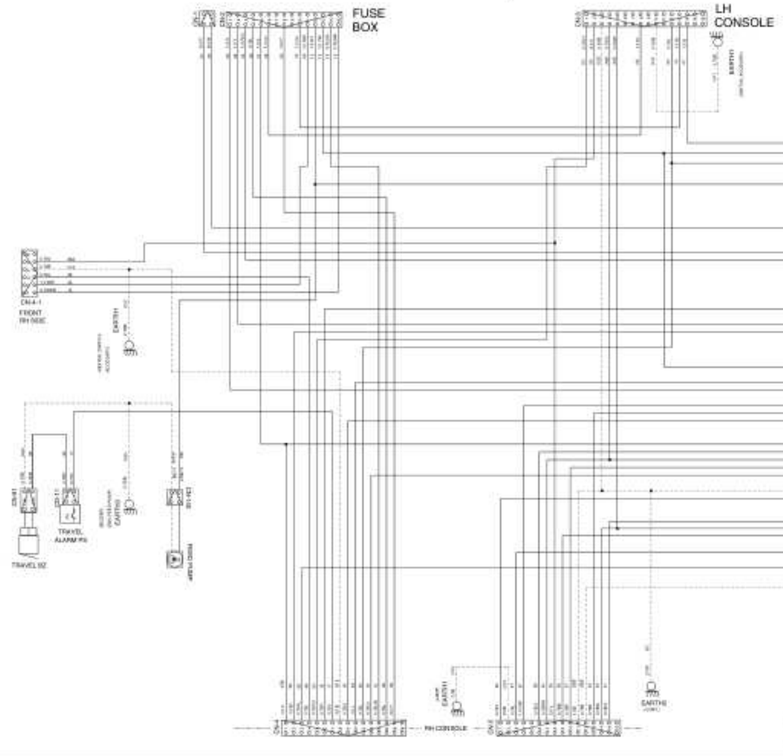
- ELECTRICAL CIRCUIT

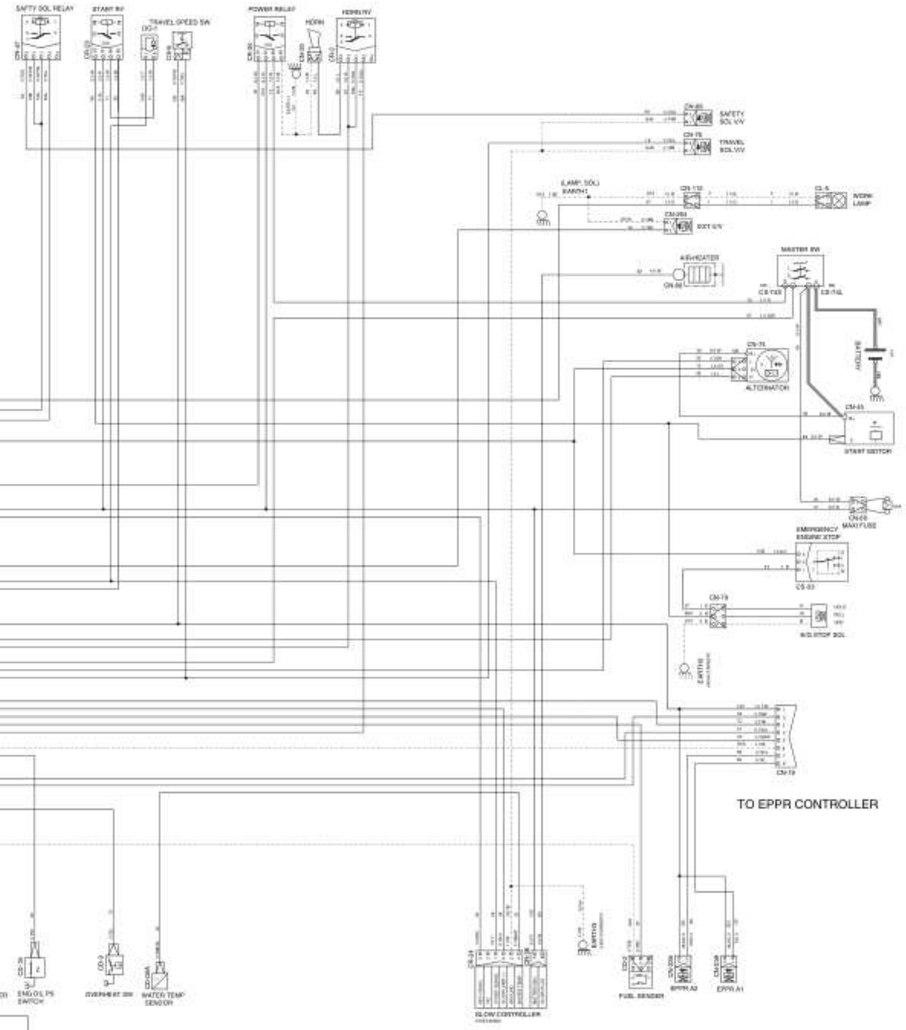




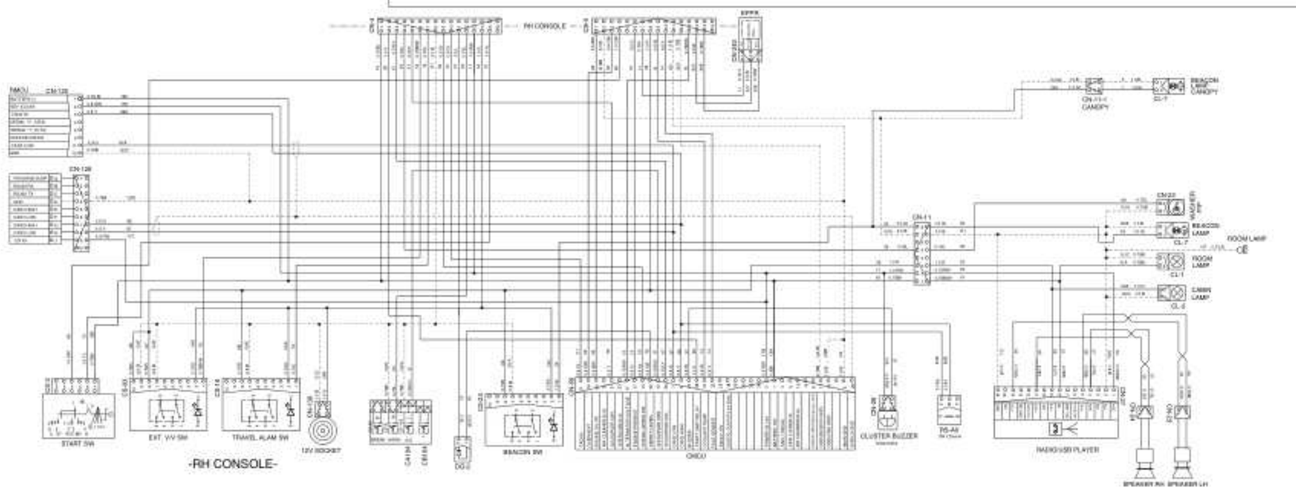


- HARENSS HEATER & WIPER -

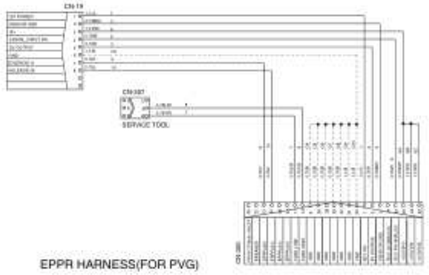




- MAIN HARNESS -



-RH CONSOLE-



EPPR HARNESS(FOR PVG)

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