WHEELED EXCAVATOR

SERVICE MANUAL

R210W-9

HYUNDAI

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GROUP 4 CONNECTORS

1. CONNECTOR DESTINATION

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	AMP	10	I/conn (Frame harness-Pump PS harness)	S816-010002	S816-110002
CN-2	AMP	12	I/conn (Frame harness-Engine harness)	S816-012002	S816-112002
CN-3	AMP	15	I/conn (Frame harness-Engine harness)	2-85262-1	368301-1
CN-4	AMP	16	I/conn (Console harness LH-Frame harness)	368047-1	368050-1
CN-5	DEUTSCH	60	I/conn (Side harness RH-Frame harness)	DRB16-60SAE-L018	DRB12-60PAE-L018
CN-7	AMP	16	I/conn (Console harness RH-Frame harness)	368047-1	368050-1
CN-8	AMP	12	I/conn (Console harness RH-Frame harness)	S816-012002	S816-112002
CN-10	DEUTSCH	12	I/conn (Cab harness-Side harness RH)	DT06-12S-EP06	DT04-12P-BE02
CN-11	DEUTSCH	8	I/conn (Frame harness-Aircon harness)	DT06-8S-EP06	-
CN-12	DEUTSCH	2	I/conn (Frame harness-Boom wire harness)	DT06-2S-EP06	DT04-2P-E004
CN-14	AMP	8	I/conn (Frame harness-Attachment harness)	S816-008002	S816-108002
CN-15	AMP	12	I/conn (Frame harness-Two way harness)	S816-012002	S816-112002
CN-16	AMP	6	Emergency engine start & speed control	S816-006002	S816-106002
CN-17	DEUTSCH	8	I/conn (Wiper motor harness-Side harness RH)	DT06-8S-EP06	DT04-8P
CN-20	DEUTSCH	2	Horn	DT06-2S-EP06	-
CN-21	AMP	6	Wiper motor	925276-0	-
CN-22	KET	2	Washer pump	MG640605	-
CN-23	KET	2	Speaker-LH	MG610070	-
CN-24	KET	2	Speaker-RH	MG610070	-
CN-25	DEUTSCH	2	Horn	DT06-2S-EP06	-
CN-27	KUM	16	Radio & CD/MP3 player	PK145-16017	-
CN-28	KUM	1	Aircon compressor	NMWP01F-B	-
CN-29	KET	2	Receiver dryer	MG640795	-
CN-36	-	-	Fuse & relay box	21Q7-10910	-
CN-45	RING-TERM	-	Starter motor B+	S820-308000	-
CN-48	KET	1	Service meter	2-520193-2	-
CN-51	DEUTSCH	40	MCU	DRC26-40SA	-
CN-52	DEUTSCH	40	MCU	DRC26-40SB	-
CN-53	DEUTSCH	40	MCU	DRC26-40SC	-
CN-56	AMP	8	Cluster	-	S816-108002
CN-60	YAZAKI	2	Fusible link	21N4-01320	7122-4125-50
CN-61	DEUTSCH	2	Fuel filler pump	DT06-2S-EP06	-
CN-66	DEUTSCH	2	Breaker solenoid	DT06-2S-EP06	-
CN-68	DEUTSCH	2	Safety solenoid	DT06-2S-EP06	-
CN-69	DEUTSCH	2	Ram lock solenoid	DT06-2S-EP06	-

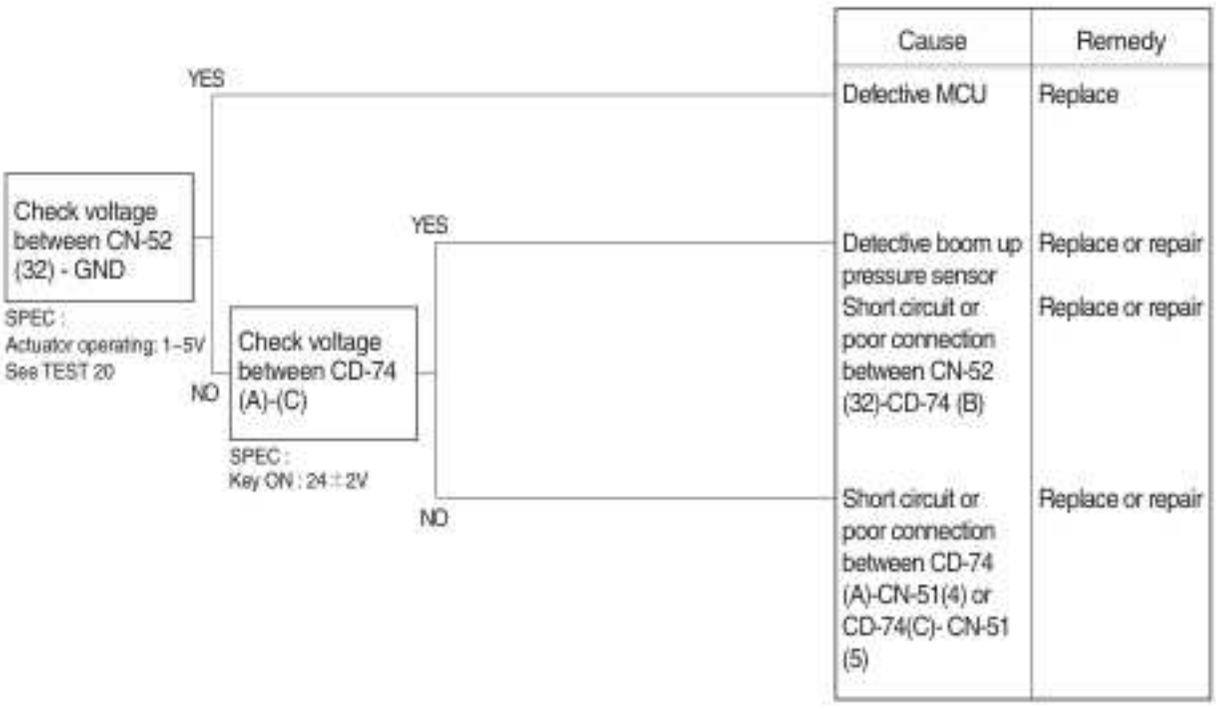
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17. MALFUNCTION OF TRAVEL REVERSE PRESSURE SENSOR

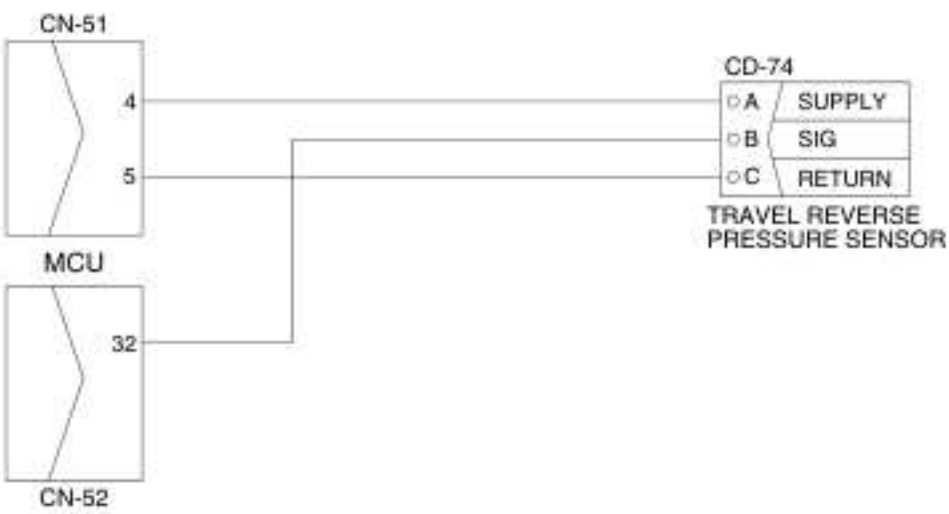
- Fault code : HCESPN 531, FMI 0~4

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

1) INSPECTION PROCEDURE



Wiring diagram



14W96MS23

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(2) Determine dimension II, from front face (arrow) of sun gear to mounting face of hub.

Dimension II, e.g. ..... 255.70 mm

CALCULATION EXAMPLE :

Dimension I eg. ..... 260.65 mm
Dimension II eg. ..... - 255.70 mm
Difference ..... = 4.95 mm
Required axial play(average) e.g. .....
..... - 0.75 mm
Result = requ. thrust washer(s) e.g. .....
..... s = 4.20 mm


17W7A8RA053

(3) Insert thrust washer(s) (e.g. s = 4.20 mm) into planetary carrier and press into contact position.

(S) Driver 5870 048 263


17W7A8RA054

(4) Preassemble planetary gear, as shown in the figure.

1 = Planetary gear
2 = Roller bearing
3 = Washer
4 = Circlip



17W7A8RA055

(5) Warm up bearing inner ring and install pre-assembled planetary gear until contact.

- Mount planetary gear or bearing inner ring with large radius looking to planetary carrier (downward).


17W7A8RA056

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3) DISASSEMBLY

The figure in ( ) shown after the part name in the explanation sentence shows its number in the structure figures (8-31~32).

(1) Place control valve on working bench.

※ Disassemble it in clean place and pay attention not to damage flange faces and plate faces.



(2) Disassembling of main spools

· Travel (301), dozer (312), bucket (304), swing (305), option (308), arm 2 (306), boom 2 (307), swing priority (311).

① Loosen the hexagon the socket head bolts (273) and remove the spring cover (201, 202) and the O-ring (261).

· Hexagon key wrench : 6 mm



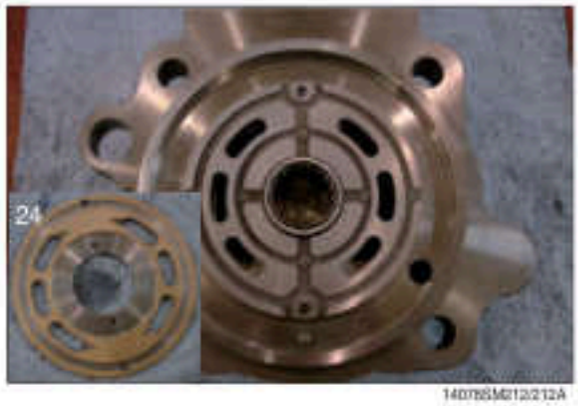
② Pull out the spool, spring, spring seats (322), stopper (335 or 339) and spacer bolt (336) in the spool assembly condition from the casing.

※ When pulling out the spool assembly from housing, pay attention not to damage the housing.



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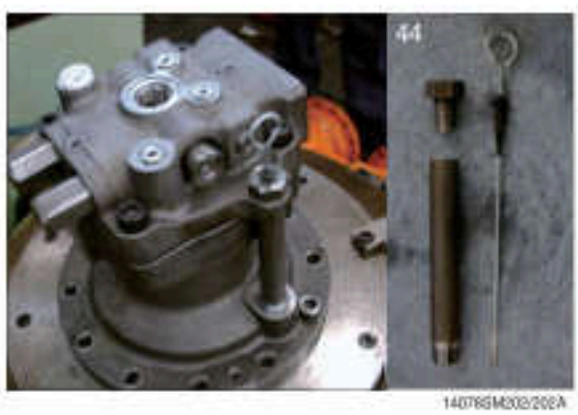
⑦ Spreading grease on valve plate (24), assemble into rear cover (21).
- Valve plate × 1EA



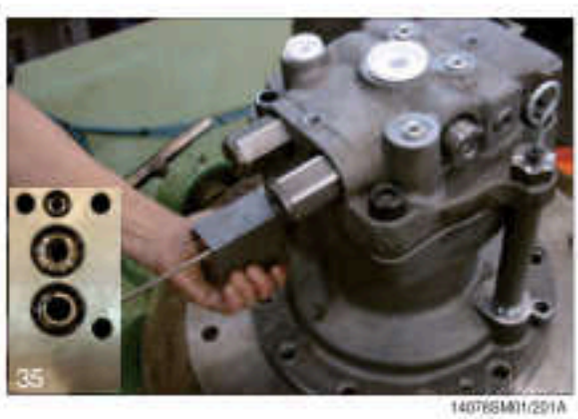
⑧ Lift up rear cover assy on body (1) by a crane and assemble it with a wrench bolt (27).



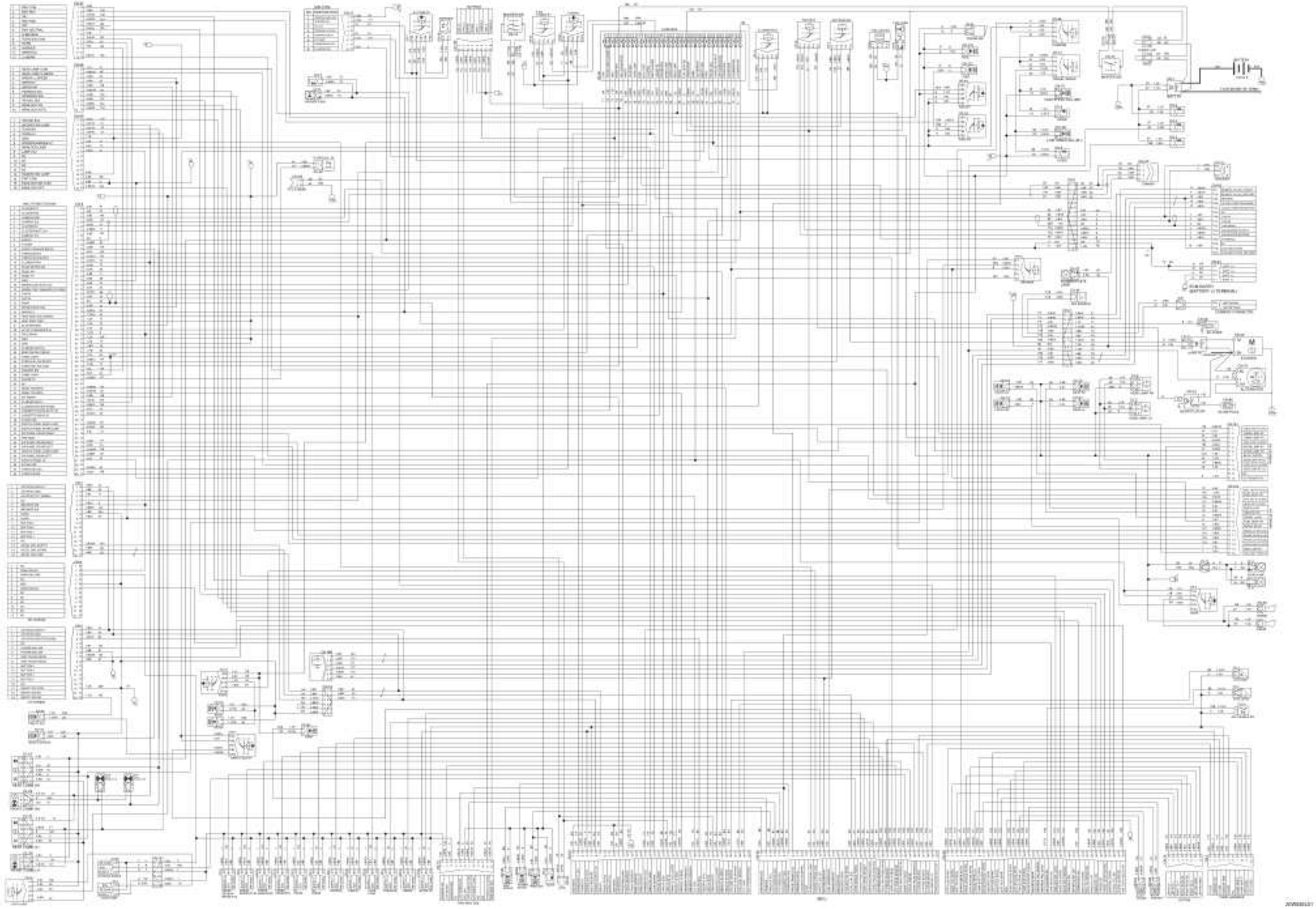
⑨ Assemble level gauge (44) into body (1).



⑩ Assemble time delay valve assy (35) into rear cover (21) with a wrench bolt (36).



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