CRAWLER EXCAVATOR

SERVICE MANUAL

R320LC-9

HYUNDAI

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2) R320NLC-9

(1) 6.45 m (21' 2") boom, 3.2 m (10' 6") arm equipped with 1.44 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 6200 kg (13670 lb) counterweight.

Load point height		Load radius												At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity		Reach
																m (ft)
7.5 m (25.0 ft)	kg									*5240	5060			*5970	3490	9.06
	lb									*11550	11160			*13160	7690	(29.7)
6.0 m (20.0 ft)	kg									*6500	4960			5450	2840	9.84
	lb									*14330	10910			12020	6260	(32.3)
4.5 m (15.0 ft)	kg							*8090	6890	*7190	4700	*5440	3270	4900	2470	10.31
	lb							*17840	15410	*15850	10360	*11990	7210	10800	5450	(33.8)
3.0 m (10.0 ft)	kg					*13400	10030	*9820	6400	*8110	4400	6070	3120	4630	2270	10.52
	lb					*29540	22110	*21650	14110	*17880	9700	13380	6880	10210	5000	(34.5)
1.5 m (5.0 ft)	kg					*16400	9010	*11460	5870	8000	4100	5900	2960	4580	2220	10.48
	lb					*36160	19860	*25260	12940	17640	9040	13010	6530	10100	4890	(34.4)
Ground Line	kg			*10240	*10240	*17910	8520	11150	5510	7750	3880	5760	2840	4750	2300	10.19
	lb			*22580	*22580	*39480	18780	24580	12150	17090	8550	12700	6260	10470	5070	(33.4)
-1.5 m (-5.0 ft)	kg	*11380	*11380	*14470	*14470	*18150	8380	10950	5340	7610	3760			5210	2560	9.63
	lb	*25090	*25090	*31900	*31900	*40010	18470	24140	11770	16780	8290			11490	5640	(31.6)
-3.0 m (-10.0 ft)	kg	*15350	*15350	*19470	17250	*17370	8450	10950	5340	7620	3770			6170	3100	8.74
	lb	*33840	*33840	*42920	38030	*38290	18630	24140	11770	16800	8310			13600	6830	(28.7)
-4.5 m (-15.0 ft)	kg			*21820	17780	*15410	8720	11150	5510					*7480	4310	7.37
	lb			*48100	39200	*33970	19220	24580	12150					*16490	9500	(24.2)
-6.0 m (-20.0 ft)	kg					*11340	9260									
	lb					*25000	20410									

Note 1. Lifting capacity are based on SAE J1097 and ISO 10567.

2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The load point is a hook located on the back of the bucket.

4. *indicates load limited by hydraulic capacity.

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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	S816-116002
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	S816-116002
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-Bucket EPPR)	S816-008002	S816-108002
CN-15	AMP	12	I/conn (Frame harness-Breaker solenoid)	S816-012002	S816-112002
CN-16	AMP	6	Emergency engine start & speed control	S816-006002	S816-106002
CN-17	DEUTSCH	8	I/conn (Wiper harness-Side harness RH)	DT06-8S-EP06	DT04-8P
CN-20	MOLEX	2	Horn	36825-0211	-
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	MOLEX	2	Horn	36825-0211	-
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	AMP	1	Hour 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	DEUTSCH	6	Cluster	-	DT04-6P-E005
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-70	DEUTSCH	2	Travel high solenoid	DT06-2S-EP06	-

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SECTION 6 TROUBLESHOOTING

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(3) Monitoring

① Active fault



- The active faults of the MCU or engine ECM can be checked by this menu.

② Logged fault



- The logged faults of the MCU or engine ECM can be checked by this menu.

③ Delete logged fault



- The logged faults of the MCU or engine ECM can be deleted by this menu.

④ Monitoring (analog)



- The machine status such as the engine rpm, oil temperature, voltage and pressure etc. can be checked by this menu.

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③ Brightness



Manual (1st~10th step)



Auto (day/night)

※ If "Auto" is chosen, brightness for day and night can be differently set up. Also by using the bar in lower side, users can define which time interval belongs to day and night.
(in bar figure, gray area represents night time while white shows day time)

④ Unit



- Temperature : ˚C ↔ ˚F
- Pressure : bar ↔ MPa ↔ kgf/cm²
- Flow : lpm ↔ gpm
- Date format : yy/mm/dd ↔ mm/dd/yy ↔ dd-Mar-yy

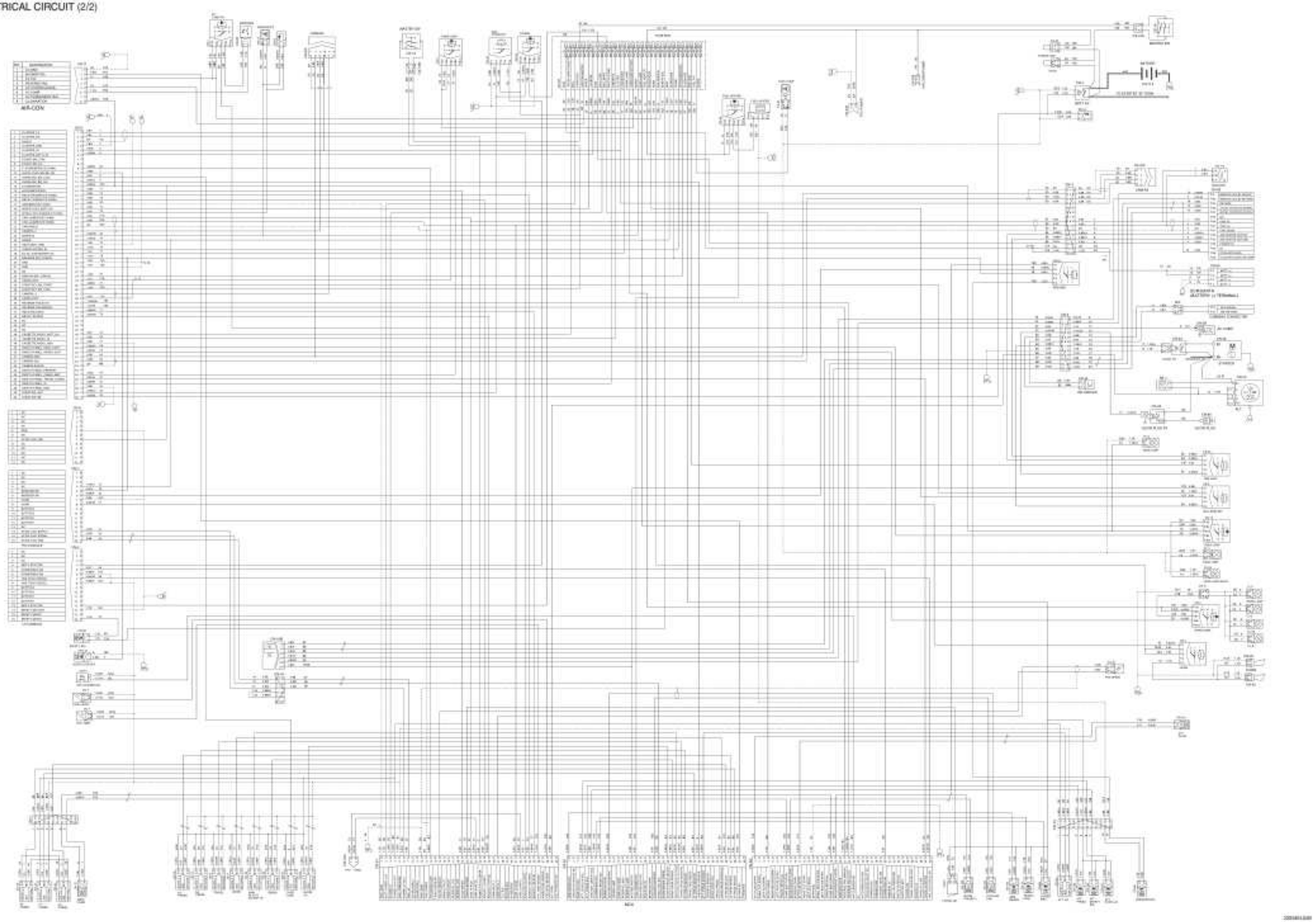
⑤ Language



- User can select preferable language and all displays are changed the selected language.

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- ELECTRICAL CIRCUIT (2/2)



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