CRAWLER EXCAVATOR

SERVICE MANUAL

HX140A L

HYUNDAI

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CONTENTS

SECTION 1 GENERAL

Group 1 Safety Hints 1-1
Group 2 Specifications 1-10

SECTION 2 STRUCTURE AND FUNCTION

Group 1 Pump Device 2-1
Group 2 Main Control Valve 2-20
Group 3 Swing Device 2-51
Group 4 Travel Device 2-62
Group 5 RCV Lever 2-83
Group 6 RCV Pedal 2-90

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 3-16
Group 5 Combined Operation 3-28

SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location 4-1
Group 2 Electrical Circuit 4-3
Group 3 Electrical Component Specification 4-23
Group 4 Connectors 4-36

SECTION 5 MECHATRONICS SYSTEM

Group 1 Outline 5-1
Group 2 Mode selection System 5-3
Group 3 Automatic Deceleration System 5-6
Group 4 Power Boost System 5-7
Group 5 Travel Speed Control System 5-8
Group 6 Automatic Warming Up Function 5-9
Group 7 Engine Overheat Prevention Function 5-10

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Group 8 Variable Power Control System 5-11
Group 9 Attachment Flow Control System 5-12
Group 10 Intelligent Power Control System 5-13
Group 11 Anti-Restart System 5-15
Group 12 Self-Diagnostic System 5-16
Group 13 Engine Control System 5-61
Group 14 EPPR Valve 5-62
Group 15 Monitoring System 5-67
Group 16 Fuel Warmer System 5-109
Group 17 1 or 2-Way Optional Piping Pressure Removal System 5-110

SECTION 6 TROUBLESHOOTING
Group 1 Before trobleshooting 6-1
Group 2 Hydraulic and Mechanical System 6-4
Group 3 Electrical System 6-25
Group 4 Mechatronics System 6-43
Group 5 Air conditioner and Heater System 6-71

SECTION 7 MAINTENANCE STANDARD
Group 1 Operational Performance Test 7-1
Group 2 Major Components 7-21
Group 3 Track and Work Equipment 7-30

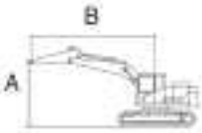
SECTION 8 DISASSEMBLY AND ASSEMBLY
Group 1 Precaution 8-1
Group 2 Tightening Torque 8-3
Group 3 Pump Device 8-7
Group 4 Main Control Valve 8-29
Group 5 Swing Device 8-43
Group 6 Travel Device 8-62
Group 7 RCV Lever 8-126
Group 8 Turning Joint 8-140
Group 9 Boom, Arm and Bucket Cylinder 8-145
Group 10 Undercarriage 8-168
Group 11 Work Equipment 8-182

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5) HX140A HW, 900 mm SHOE

Model	Type	Boom	Arm	Counterweight	Shoe	Wheel	Dozer		Outrigger	
		Length [mm]	Length [mm]	weight [kg]	width [mm]	width [mm]	Front	Rear	Front	Rear
HX140A HW	MONO BOOM	4600	2100	2100	900	-	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		Capacity		Reach
												m (ft)
6.0 m (19.7 ft)	kg					*4130	*4130			*2950	*2950	5.04
	lb					*9110	*9110			*6500	*6500	(16.5)
4.5 m (14.8 ft)	kg					*4470	*4470	*2830	*2830	*2820	*2820	6.00
	lb					*9850	*9850	*6240	*6240	*6220	*6220	(19.7)
3.0 m (9.8 ft)	kg			*8080	*8080	*5390	4770	*4460	3160	*2900	2820	6.48
	lb			*17810	*17810	*11880	10520	*9830	6970	*6390	6220	(21.3)
1.5 m (4.9 ft)	kg					*6340	4570	4580	3070	*3190	2700	6.58
	lb					*13980	10080	10100	6770	*7030	5950	(21.6)
0.0 m (0.0 ft)	kg			*7630	*7630	*6790	4450	4520	3020	*3780	2820	6.33
	lb			*16820	*16820	*14970	9810	9960	6660	*8330	6220	(20.8)
-1.5 m (-4.9 ft)	kg	*6850	*6850	*9530	8160	*6500	4440			4900	3260	5.67
	lb	*15100	*15100	*21010	17990	*14330	9790			10800	7190	(18.6)
-3.0 m (-9.8 ft)	kg			*7450	*7450					*4980	4650	4.43
	lb			*16420	*16420					*10980	10250	(14.5)

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.

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

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GROUP 4 CONNECTORS

1. CONNECTOR DESTINATION

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	TYCO	10	I/conn (Frame harness-Engine harness)	174655-2	174657-2
CN-2	AMP	15	I/conn (Frame harness-Engine harness)	2-85262-1	368301-1
CN-3A	TYCO	12	I/conn (Frame harness-Pro vlv harness)	174661-2	368537-1
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	DRB14-60PAE-L018
CN-6	AMP	16	I/conn (Console harness RH-Frame harness)	368047-1	368050-1
CN-7	AMP	15	I/conn (Console harness RH-Frame harness)	2-85262-1	368301-1
CN-8	AMP	10	I/conn (Console harness RH-Frame harness)	S816-010002	174657-2
CN-9	DEUTSCH	12	I/conn (Frame harness- AAVM harness)	DT06-12SA-EP06	DT04-12PA-P021
CN-10	DEUTSCH	12	I/conn (Cab harness-Side harness RH)	DT06-12S-EP06	DT04-12PA-P021
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-E005
CN-14	DEUTSCH	2	I/conn (Frame harness-Swing parking harness)	DT06-2S-EP06	DT04-2S-E005
CN-15	AMP	10	I/conn (Frame harness-Breaker sol)	174655-2	174657-2
CN-16	AMP	6	Emergency engine start & speed control	S816-006002	S816-106002
CN-16B	AMP	6	Emergency engine start & speed control	S816-006002	-
CN-17	AMP	8	I/conn (Side harness RH-Wiper harness)	S816-008002	S816-108202
CN-20	DEUTSCH	2	Horn	DT06-2S-EP06	-
CN-21	AMP	6	Wiper motor	S810-006202	-
CN-22	KET	2	Washer tank	MG640605	-
CN-23	KET	2	Speaker-LH	MG610032	-
CN-24	KET	2	Speaker-RH	MG610070	-
CN-25	DEUTSCH	2	Horn	DT06-2S-EP06	-
CN-27A	KUM	16	Radio & USB player	PK145-16017	-
CN-27B	AMP	8	Radio & USB player	-	174984-2
CN-28	-	1	Aircon compressor	NMWP01F-B	-
CN-29	KET	2	Receiver dryer	MG640795	-
CN-36	-	-	Fuse & relay box	21Q7-10910	-
CN-45B+	RING-TERM	-	Starter motor B+	S820-410001	-
CN-45M	RING-TERM	-	Starter motor M	ST710246-2	-
CN-48	KET	1	Hour meter	2-520193-2	-
CN-51	TE	34	MCU	2-1473285-3	-
CN-52	TE	34	MCU	4-1437290-1	-
CN-53	TE	26	MCU	1473416-1	-
CN-54	TE	34	MCU	4-1437290-0	-
CN-56A	AMP	12	Cluster	-	174663-2
CN-56B	AMP	8	Cluster	-	174984-2

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SECTION 6 TROUBLESHOOTING

Group 1 Before Troubleshooting 6-1
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Group 3 Electrical System 6-25
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■ Disassemble cylinder sub.

9) Disassemble cylinder block assembly, piston assembly (9) and seat plate (M).





10) Disassemble ball guide (16), ring and pin (15) from cylinder block, respectively.





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(19) Shrink fit taper roller bearing (3) on drive shaft, complete drive shaft sub assembly.



125LCR8SM102

Casing assembly

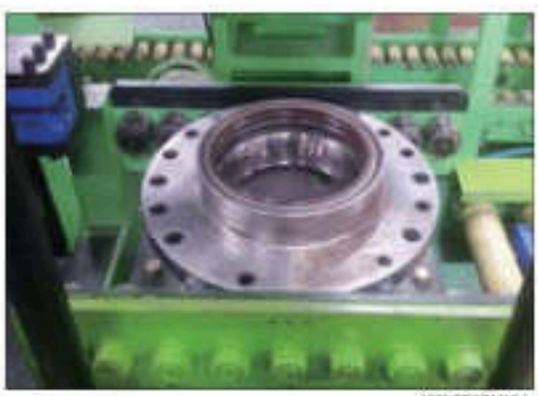
(20) Press outer ring of the taper roller bearing in the casing (8) by using the jig.



125LCR8SM103

(21) Press in oil seal (27) by using the jig.

※ Be careful of the direction of the assembly.



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(22) Assemble drive shaft sub assembly.

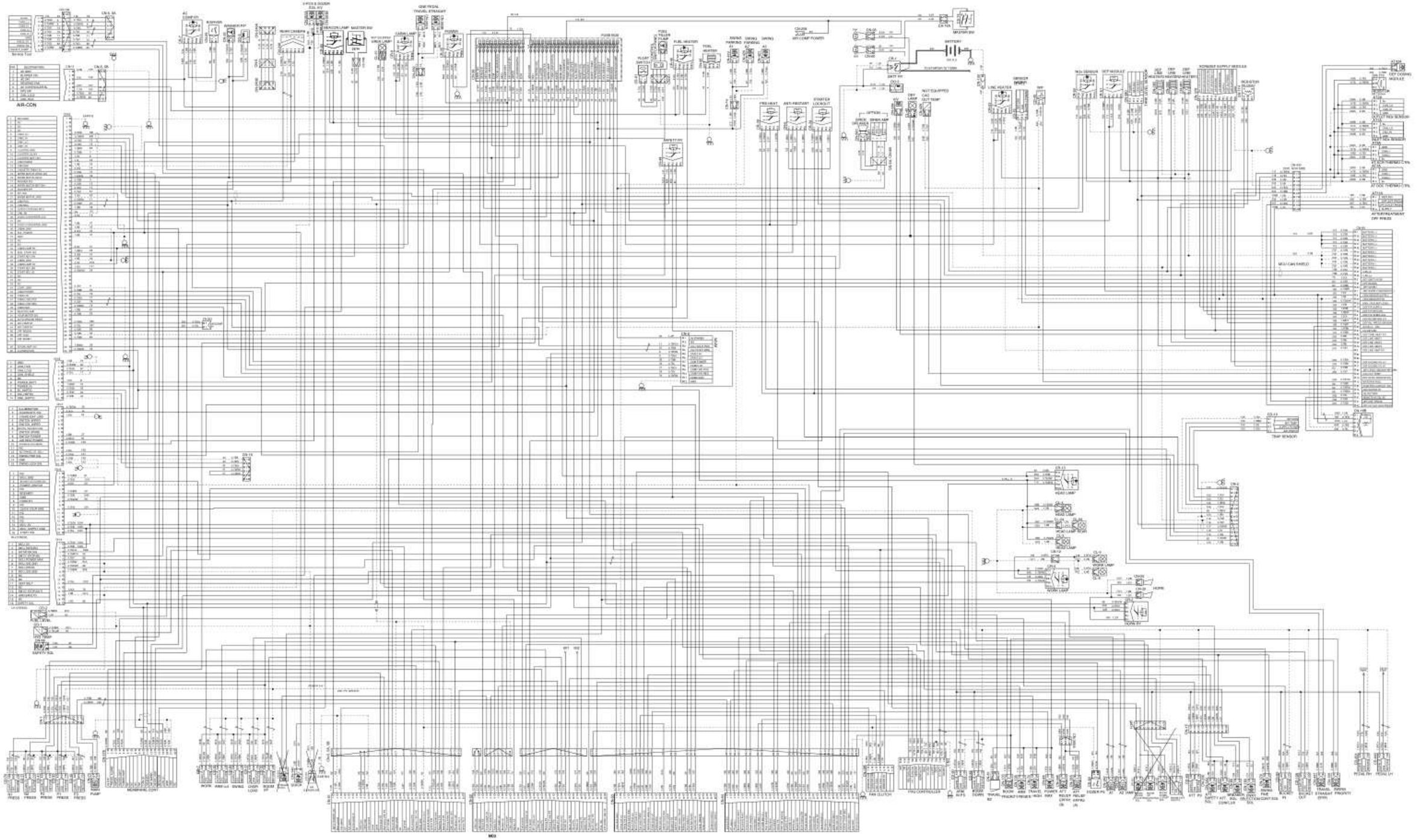
※ Be careful of damage of oil seal.



125LCR8SM105

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