CRAWLER EXCAVATOR

SERVICE MANUAL

RC215C-7H

HYUNDAI

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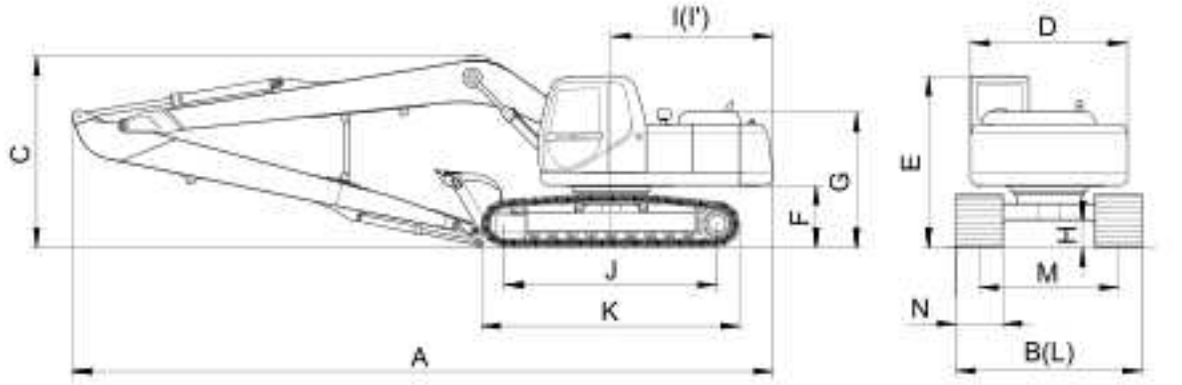
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2) ROBEX 210LC-7H LONG REACH



21072SP06

Description		Unit	Specification
Operating weight		kg(lb)	24160(53260)
Bucket capacity(SAE heaped), standard		$m^3(yd^3)$	0.51(0.67)
Overall length	A	mm(ft-in)	12030(39' 6")
Overall width, with 800mm shoe	B		3190(10' 6")
Overall height	C		3280(10' 9")
Superstructure width	D		2700(8'10")
Overall height of cab	E		2920(9' 7")
Ground clearance of counterweight	F		1060(3' 6")
Engine cover height	G		2320(7' 7")
Minimum ground clearance	H		480(1' 7")
Rear-end distance	I		2770(9' 1")
Rear-end swing radius	I'		2830(9' 3")
Distance between tumblers	J		3650(12' 0")
Undercarriage length	K		4440(14' 7")
Undercarriage width	L		3190(10' 6")
Track gauge	M		2390(7' 10")
Track shoe width, standard	N		800(31' 5")
Travel speed(Low/high)		km/hr(mph)	3.4/5.3(2.1/3.3)
Swing speed		rpm	12.5
Gradeability		Degree(%)	35(70)
Ground pressure(800mm shoe)		$kgf/cm^2(psi)$	0.42(5.97)

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GROUP 4 CONNECTORS

1. CONNECTOR DESTINATION

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	Econoseal J	6	I/conn(Pump ps harness-Frame harness)	S816-006002	S816-106002
CN-2	Econoseal J	12	I/conn(Engine harness 2-Frame harness)	2-85262-1	368301-1
CN-3	Econoseal J	8	I/conn(Engine harness 1-Frame harness)	S816-008002	S816-108002
CN-4	Econoseal J	8	I/conn(Console harness LH-Frame harness)	S816-008002	S816-108002
CN-5	Econoseal J	15	I/conn(Side harness RH-Frame harness)	2-85262-1	368301-1
CN-6	Econoseal J	12	I/conn(Side harness RH-Frame harness)	S816-012002	S816-112002
CN-7	Econoseal J	15	I/conn(Console harness RH-Frame harness)	2-85262-1	368301-1
CN-8	Econoseal J	12	I/conn(Console harness RH-Frame harness)	S816-012002	S816-112002
CN-9	Econoseal J	8	I/conn(Console harness RH-Frame harness)	S816-008002	S816-108002
CN-10	DEUTSCH	12	I/conn(Cab harness-Frame harness)	DT06-12S	DT04-12P
CN-11	DEUTSCH	8	I/conn(Air-con harness-Frame harness)	DT06-8SDT06-	DT04-8P
CN-12	DEUTSCH	2	Work lamp harness	2S	DT04-2P
CN-15	DEUTSCH	2	2pcs auto idle pressure	DT06-2S	DT04-2P
CN-17	DEUTSCH	8	I/conn (Side harness RH-Wiper motor harness)	DT06-8S	DT04-8P
CN-20	MOLEX	2	Horn	35215-0200	-
CN-21	AMP	6	Wiper motor	925276-0	-
CN-22	KET	2	Washer tank	MG640605	-
CN-23	KET	2	LH speaker	MG610070	-
CN-24	KET	2	RH speaker	MG610070	-
CN-25	MOLEX	2	Horn	35215-0200	-
CN-27	AMP	14	Cassette radio	173852	-
CN-28	MWP	1	Air-con compressor	NMWP01F-B	-
CN-29	KET	2	Receiver dryer	HG640795	-
CN-36	DEUTSCH	3	Fuse box	21N8-20191	-
CN-45	RING TERM	-	Start motor B"	ST710264-2	-
CN-47	AMP	2	Resistor	S810-002202	S810-102202
CN-48	AMP	2	Hour meter	S810-002202	-
CN-50	AMP	36	CPU controller	3441110	-
CN-51	AMP	36	CPU controller	3441110	-
CN-56	DEUTSCH	4	Cluster	-	DT04-4P
CN-60	YAZAKI	2	Fusible link	7123-412S-50	7122-412S-50
CN-61	DEUTSCH	2	Fuel filler pump	DT06-2S	-
CN-66	DEUTSCH	2	Breaker solenoid	DT06-2S	DT04-2P
CN-68	DEUTSCH	2	Safety solenoid	DT06-2S	DT04-2P
CN-70	DEUTSCH	2	Travel speed solenoid	DT06-2S	-
CN-74	RING-TERM	1	Alternator "1" term	S820-408000	-
CN-75	Econoseal J	2	EPPR valve	S816-002002	-
CN-76	DEUTSCH	6	DC motor	DT06-6S	-

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GROUP 9 SELF-DIAGNOSTIC SYSTEM

1. OUTLINE

When any abnormality occurs in the NEW CAPO system caused by electric parts malfunction and by open or short circuit, the CPU controller diagnoses the problem and sends the error codes to the cluster and also stores them in the memory.

The current or recorded error codes are displayed at the error display mode selected by touching **SELECT** switch 2 times while pressing **BUZZER STOP** switch.

2. CURRENT ERROR DISPLAY

Cluster displays **Co : Er** and makes buzzer sound itself to warn the communication error when communication problem caused by wire-cut or malfunction of the CPU controller occurs.

Cluster displays real time error codes received from CPU controller through communication. In case of no problem it displays CHECK **Er : 00**.

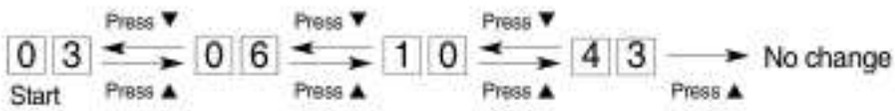
If there are more than 2 error codes, each one can be displayed by pressing ▲ and ▼ switch respectively.

Examples :

1) Communication Error
   Co : Er & Buzzer sound

2) No problem
   CHECK Er : 0 0

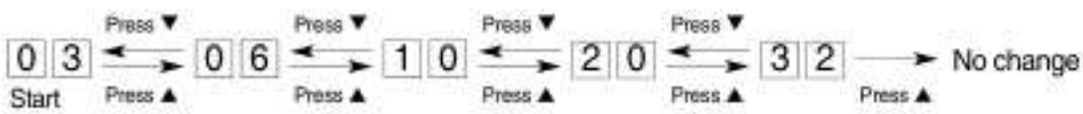
3) 4 Error codes(03, 06, 10, 43) display
   CHECK Er : 0 3



3. RECORDED ERROR DISPLAY

The recorded error can be displayed only when the key switch is at ON position.

Examples : 5 Recorded error codes(03, 06, 10, 20, 32) display
TIME Er : 0 3



4. DELETE ALL RECORDED ERROR CODES

Select recorded error(TIME **Er**) display and press engine and select switch at the same time for 2 seconds or more. Cluster display changes to TIME **Er : 00**, which shows that CPU controller deleted all the recorded error codes in the memory.

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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.

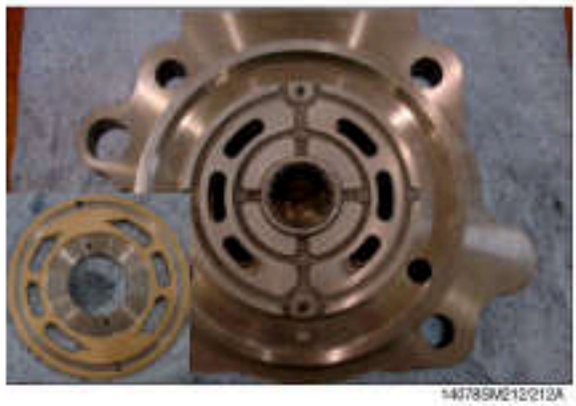




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(3) Disassemble rear cover assy sub

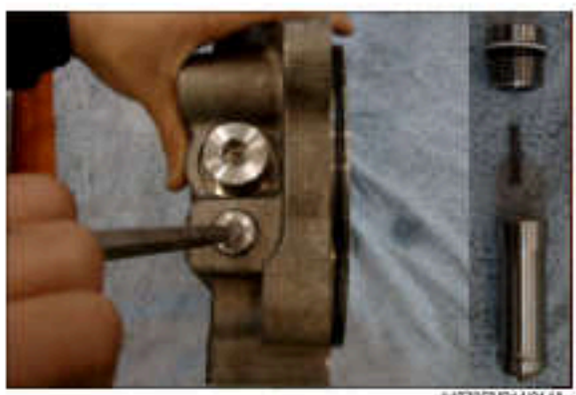
① Disassemble pin(8, 23), valve plate(24) from rear cover(21).



② Using a torque wrench, disassemble relief valve assy(33) 2 set from rear cover(21).



③ After disassembling plug with a L-wrench from rear cover(21), disassemble respectively back up ring, O-ring, O-ring, spring, anti-inversion valve assy(34)



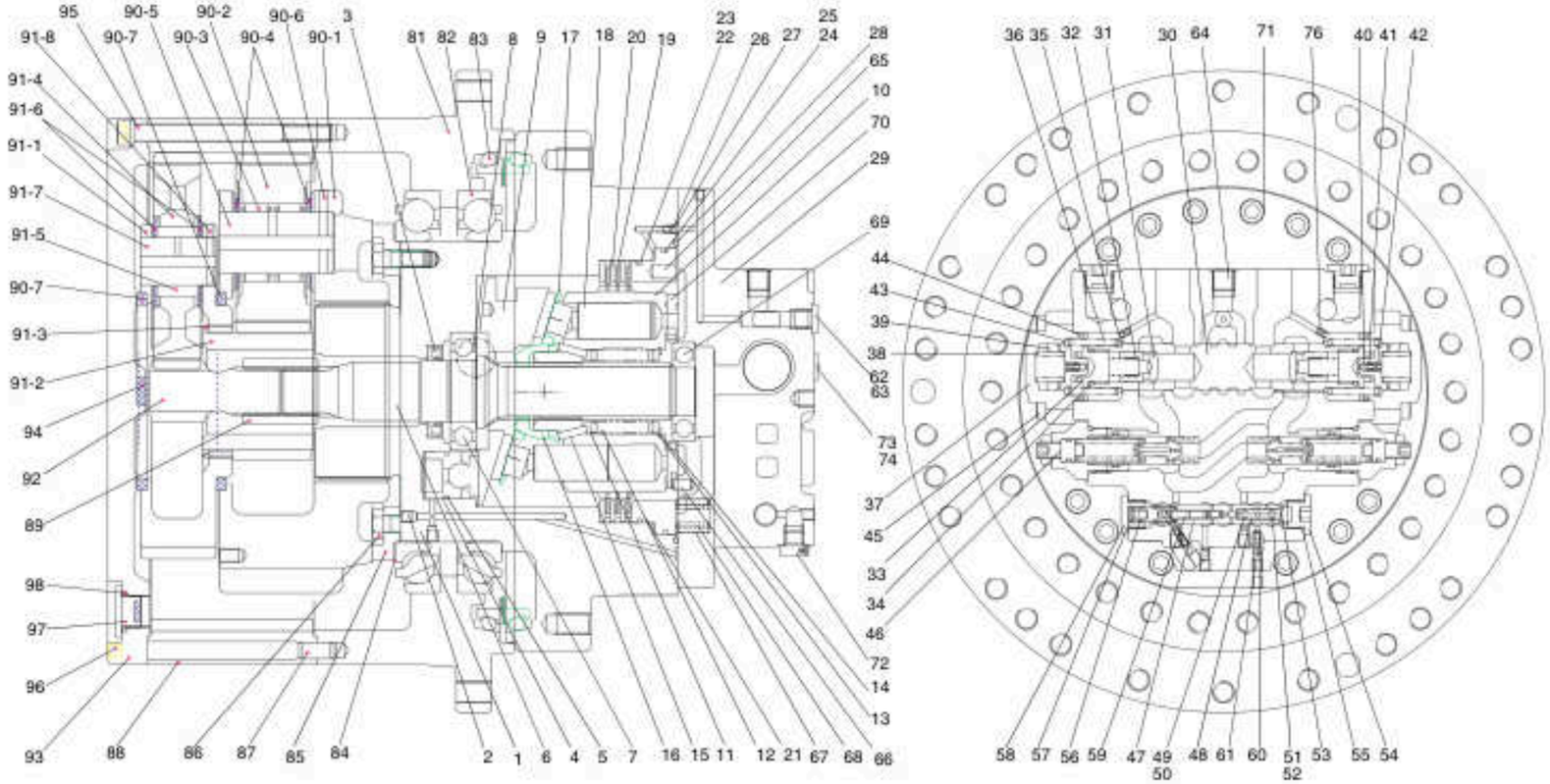
④ Disassemble make up check valve assy with a torque wrench from rear cover(21).



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2. TRAVEL MOTOR

1) STRUCTURE



1	Shaft casing	20	Plate	39	Spool	57	Spring seat	75	Seal kit	90-7	Thrust ring
2	Plug	21	Packing piston	40	Steel ball	58	Plug	76	Orifice	91	Carrier assy No.1
3	Oil seal	22	O-ring	41	Spring	59	Spool	81	Housing	91-1	Carrier No.1
4	Swash piston	23	Back up ring	42	Plug	60	Orifice	82	Main bearing	91-2	Sun-gear No.2
5	Piston ring	24	O-ring	43	Spring seat	61	Orifice	83	Floating seal	91-3	Retaining ring
6	Shaft	25	Back up ring	44	O-ring	62	Plug	84	Shim	91-4	Planetary gear No.1
7	Bearing	26	Orifice	45	Wrench bolt	63	O-ring	85	Retainer	91-5	Needle bearing No.1
8	Steel ball	27	O-ring	46	Relief valve assy	64	Plug	86	Hex head bolt	91-6	Thrust washer
9	Swash plate	28	O-ring	47	Spool	65	Pin	87	Parallel pin	91-7	Pin No.1
10	Cylinder block	29	Rear cover	48	Guide	66	Pin	88	Ring gear	91-8	Spring pin
11	Spring seat	30	Spool	49	O-ring	67	Spring	89	Coupling	92	Sun gear No.1
12	Spring	31	Check	50	Back up ring	68	Spring	90	Carrier assy No.2	93	Cover
13	End plate	32	Spring	51	O-ring	69	Bearing	90-1	Carrier No.2	94	Pad
14	Snap ring	33	Plug	52	Back up ring	70	Valve plate	90-2	Planetary gear No.2	95	Hex socket head bolt
15	Pin	34	O-ring	53	Snap ring	71	Wrench bolt	90-3	Needle bearing No.2	96	Hex socket Screw
16	Ball guide	35	Spring seat	54	plug	72	Plug	90-4	Thrsut washer	97	Hydraulic plug
17	Set plate	36	Spring	55	O-ring	73	Name plate	90-5	Pin No.2	98	O-ring
18	Piston assy	37	Cover	56	Spring	74	Rivet	90-6	Spring pin	99	Name plate
19	Friction plate	38	Spring								

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