CRAWLER EXCAVATOR

SERVICE MANUAL

HX145LCR

HYUNDAI

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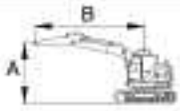
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2) HX145LCR 2-PIECE BOOM

Unit : mm

Model	Boom Type	Boom Length	Arm Length	Counterweight Weight (kg)	Shoe Width	Dozer Front	Dozer Rear	Outrigger Front	Outrigger Rear
HX145LCR	2PCS	4939	1900	2800	600	-	-	-	-

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



Lift-point height (A)		Lift-point radius (B) 3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		At max. reach Capacity		Reach
		over-front	over-side	over-front	over-side	over-front	over-side	over-front	over-side	m (ft)
7.5m	kg	*6340	*6340					*5810	*5810	3.21
24.6ft	lb	*13980	*13980					*12810	*12810	(10.5)
6.0m	kg	*5610	*5610	*5140	3830			*4390	3030	5.14
19.7ft	lb	*12370	*12370	*11330	8440			*9680	6680	(16.9)
4.5m	kg	*6910	*6910	*5450	3730	3860	2350	3690	2240	6.15
14.8ft	lb	*15230	*15230	*12020	8220	8510	5180	8140	4940	(20.2)
3.0m	kg			5970	3500	3790	2280	3190	1920	6.69
9.8ft	lb			13160	7720	8360	5030	7030	4230	(21.9)
1.5m	kg			5700	3270	3680	2190	3020	1800	6.85
4.9ft	lb			12570	7210	8110	4830	6660	3970	(22.5)
0.0m	kg			5550	3140	3610	2120	3100	1840	6.68
0.0ft	lb			12240	6920	7960	4670	6830	4060	(21.9)
-1.5m	kg	*9370	5770	5520	3120	3610	2120	3500	2070	6.13
-4.9ft	lb	*20660	12720	12170	6880	7960	4670	7720	4560	(20.1)

※ 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 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 your HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

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

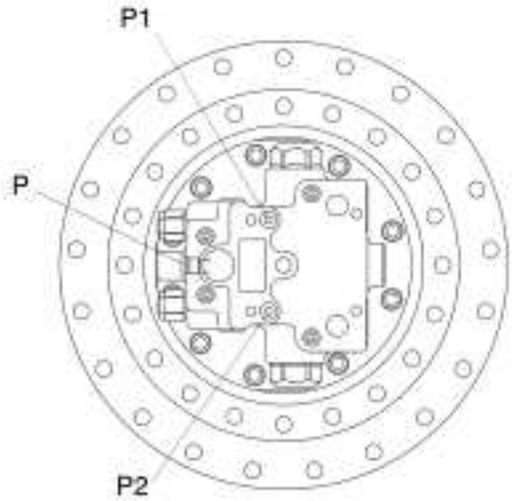
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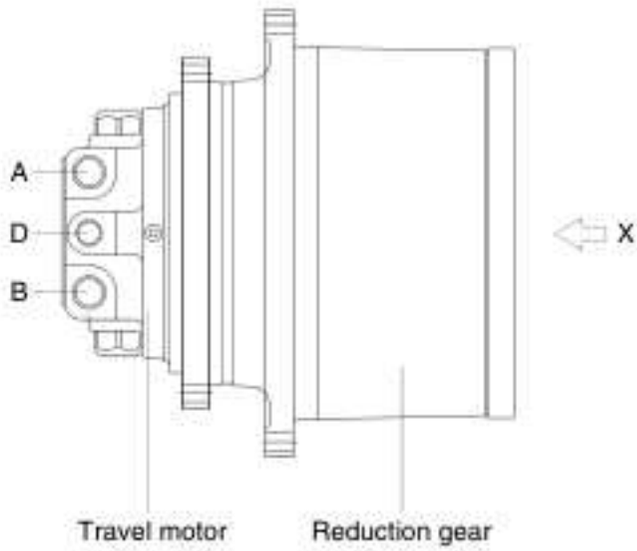
GROUP 4 TRAVEL DEVICE (TYPE 2)

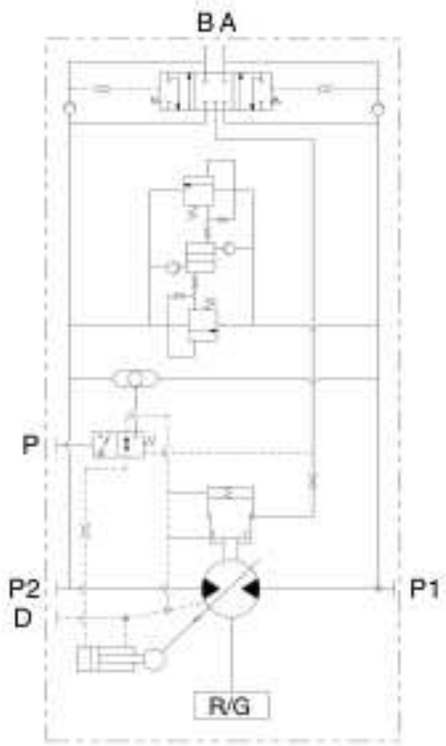
1. CONSTRUCTION

Travel device consists travel motor and gear box.

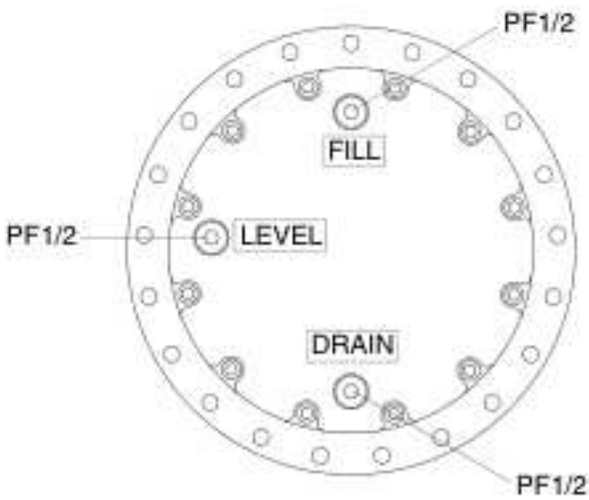
Travel motor includes brake valve, parking brake and high/low speed changeover mechanism.







Hydraulic circuit



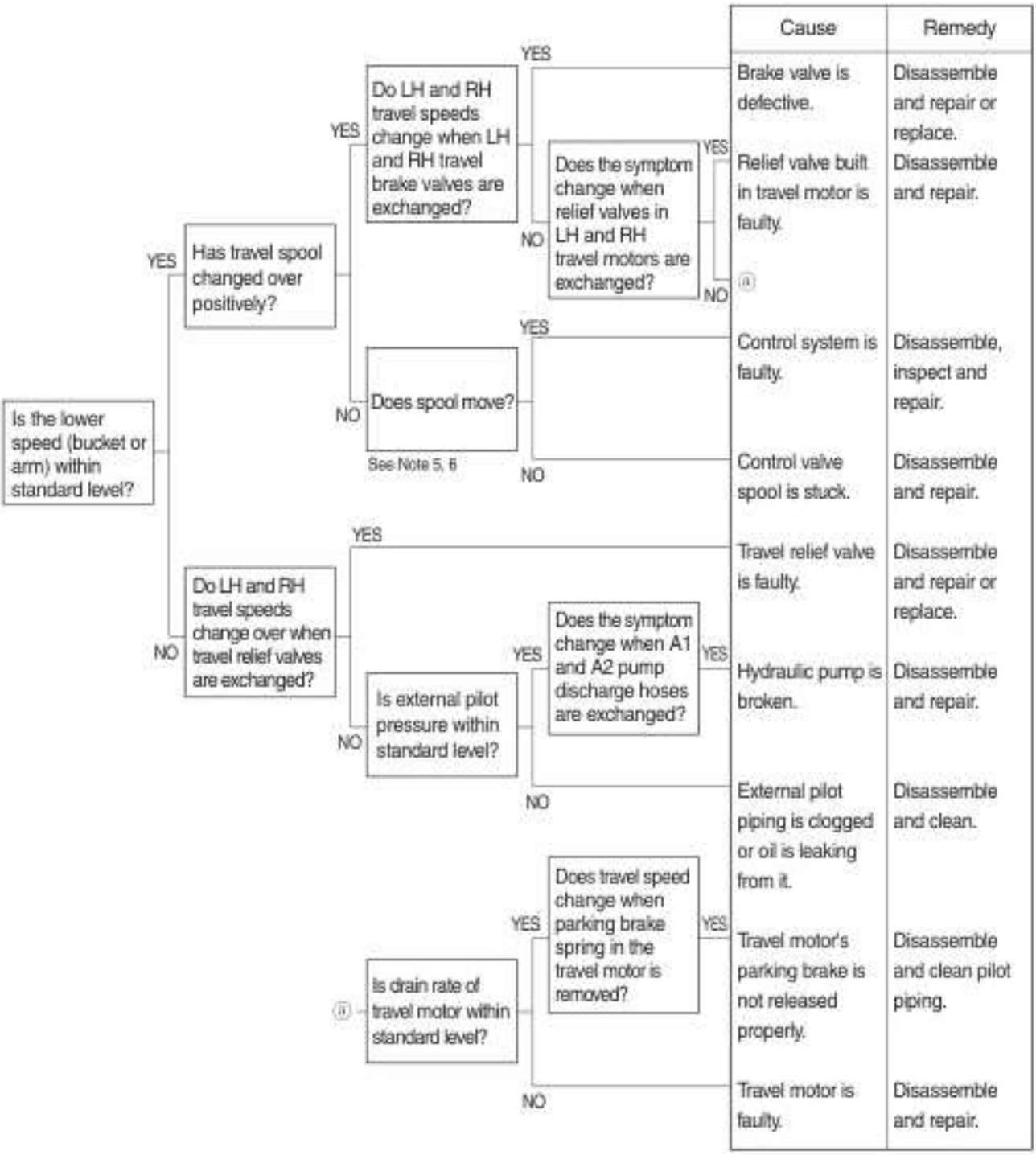
VIEW X

14SZ9A2TM01

Port	Port name	Port size
A, B	Main port	PF 3/4
P	Two speed control port	PF 1/4
D	Drain port	PF 1/2
P_1, P_2	Gage port	PF 1/8

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2) SPEED ON ONE SIDE FALLS AND THE MACHINE CURVES



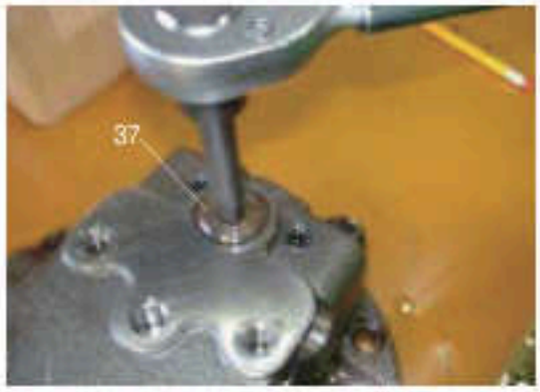
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(11) Put spring (36), two speed control spool (35) into valve casing (25) in regular sequence and assemble plug (37) into valve casing (25) using a torque wrench.

· Tighten torque : 10 kgf-m (72.3 lbf-ft)



145Z0A8TM70



145Z0A8TM71

(12) Assemble check (30), spring (29), plug (27) into main spool (26) in regular sequence.



145Z0A8TM72



145Z0A8TM73



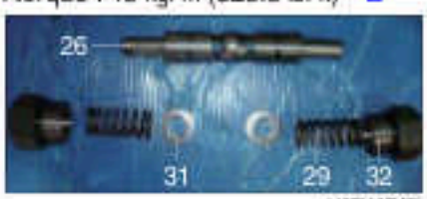
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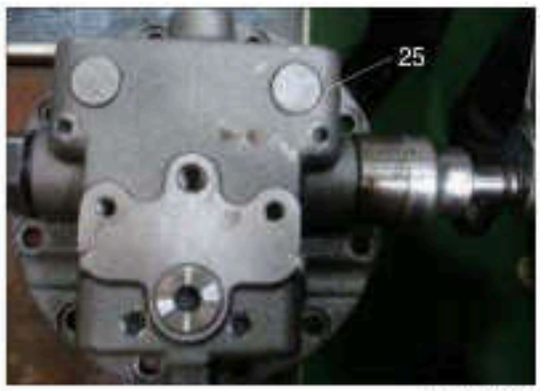
145Z0A8TM75

(13) Put the main spool (26) into valve casing (25) and assemble plate (31), spring (29) into it. Tighten main spool plug (32) using a torque wrench.

· Tighten torque : 45 kgf-m (325.5 lbf-ft)



145Z0A8TM76



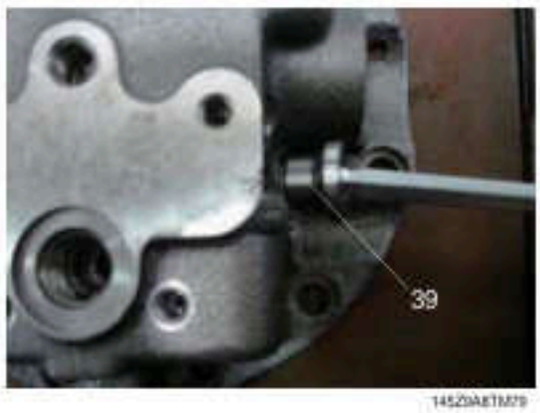
145Z0A8TM77

(14) Put relief valve damping piston (38) into valve casing (25) and assemble plug (39) into valve casing (25).

· Tighten torque : 6 kgf-m (43.4 lbf-ft)



145Z0A8TM78



145Z0A8TM79

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



125LCR8SM102

Casing assembly

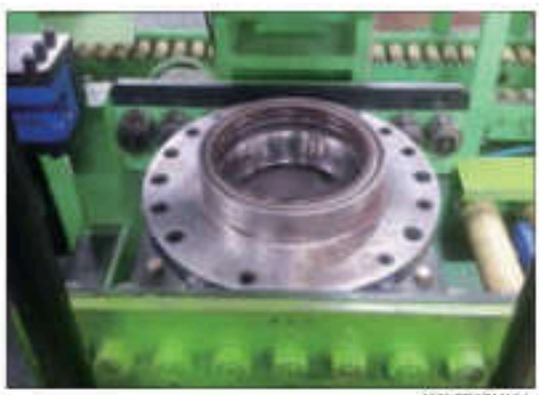
(20) Press outer ring of the taper bearing in the casing (8) by using the jig.



125LCR8SM103

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

※ Be careful of the direction of the assembly.



125LCR8SM104

(22) Assemble drive shaft sub assembly.

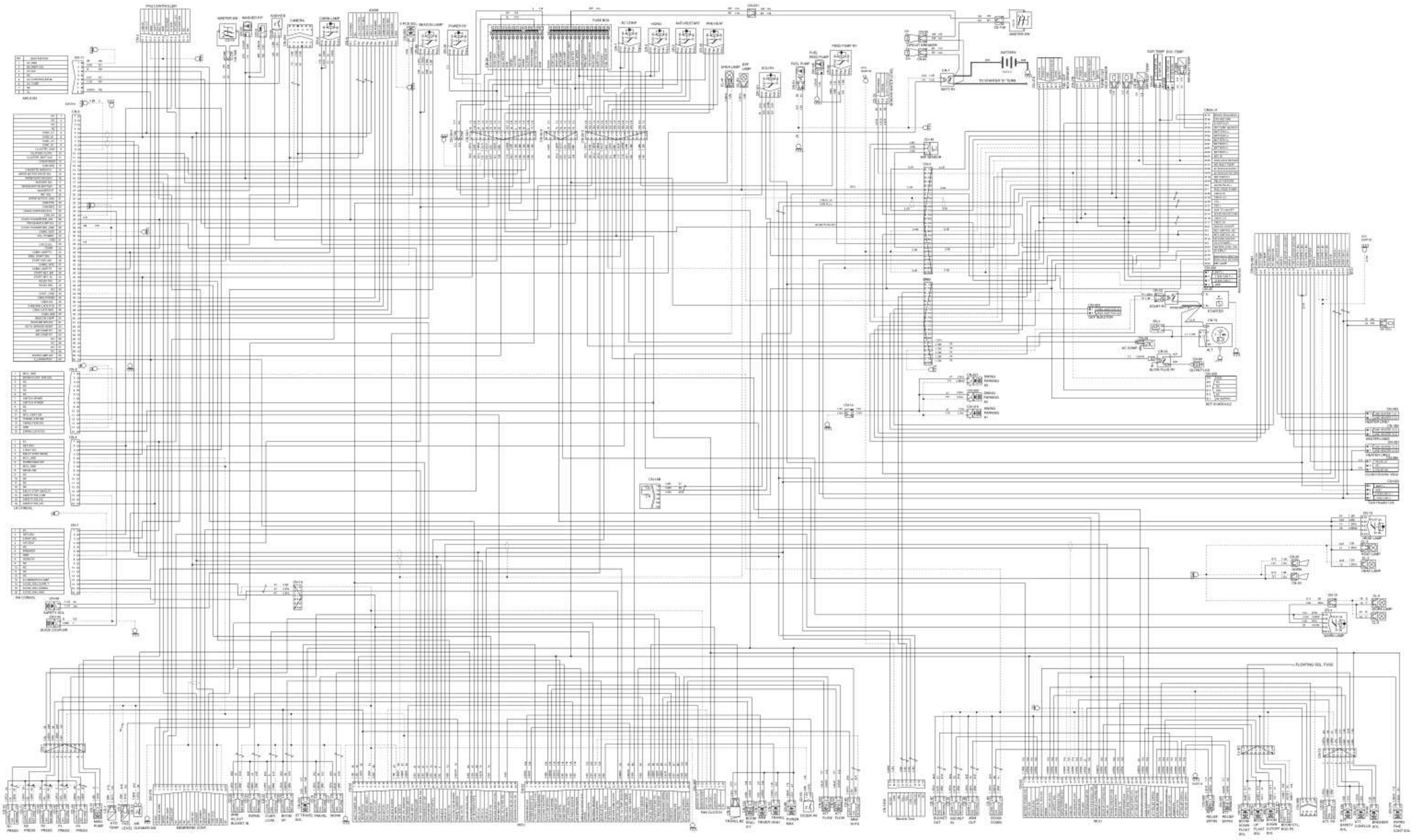
※ Be careful of damage of oil seal.



125LCR8SM105

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· ELECTRICAL CIRCUIT (1/4, SERIAL NO. : -#0967)



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