CRAWLER EXCAVATOR

SERVICE MANUAL

HX48A Z

HYUNDAI

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CONTENTS

SECTION 1 GENERAL

Group 1 Safety Hints 1-1
Group 2 Specifications 1-9

SECTION 2 STRUCTURE AND FUNCTION

Group 1 Pump Device 2-1
Group 2 Main Control Valve 2-10
Group 3 Swing Device 2-43
Group 4 Travel Device 2-47
Group 5 RCV Lever 2-63
Group 6 RCV Pedal 2-75

SECTION 3 HYDRAULIC SYSTEM

Group 1 Hydraulic Circuit 3-1
Group 2 Main Circuit 3-4
Group 3 Pilot Circuit 3-7
Group 4 Single Operation 3-12
Group 5 Combined Operation 3-24

SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location 4-1
Group 2 Monitoring system 4-3
Group 3 Electrical Circuit 4-32
Group 4 Electrical Component Specification 4-50
Group 5 Connectors 4-59

SECTION 5 TROUBLESHOOTING

Group 1 Before Troubleshooting 5-1
Group 2 Hydraulic and Mechanical System 5-4
Group 3 Electrical System 5-24

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SECTION 6 MAINTENANCE STANDARD

Group 1 Operational Performance Test 6-1
Group 2 Major Components 6-21
Group 3 Track and Work Equipment 6-29

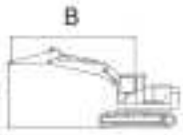
SECTION 7 DISASSEMBLY AND ASSEMBLY

Group 1 Precaution 7-1
Group 2 Tightening Torque 7-4
Group 3 Pump Device 7-7
Group 4 Main Control Valve 7-31
Group 5 Swing Device 7-41
Group 6 Travel Device 7-53
Group 7 RCV Lever 7-91
Group 8 Turning Joint 7-115
Group 9 Boom, Arm and Bucket Cylinder 7-120
Group 10 Undercarriage 7-140
Group 11 Work Equipment 7-153

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Model	Type		Boom	Arm	Counterweight	Wheel	Dozer		Outrigger	
HX48A Z	Canopy	Rubber Track	Length [mm]	Length [mm]	weight [kg]	width [mm]	Front	Rear	Front	Rear
			2800	1400	450	-	-	Up	-	-

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



Lift-point height (A)		Lift-point radius (B)								At max. reach		
		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		5.0 m (16.4 ft)		Capacity		Reach
												m (ft)
4.0 m (13.1 ft)	kg									980	820	3.97
	lb									2160	1810	(13.0)
3.0 m (9.8 ft)	kg					970	810			740	620	4.68
	lb					2140	1790			1630	1370	(15.4)
2.0 m (6.6 ft)	kg			1470	1210	930	780	650	550	650	540	5.03
	lb			3240	2670	2050	1720	1430	1210	1430	1190	(16.5)
1.0 m (3.3 ft)	kg			1370	1120	900	750	640	540	620	520	5.12
	lb			3020	2470	1980	1650	1410	1190	1370	1150	(16.8)
0.0 m (0.0 ft)	kg			1340	1090	870	720			640	540	4.95
	lb			2950	2400	1920	1590			1410	1190	(16.3)
-1.0 m (-3.3 ft)	kg	*2380	2140	1340	1090	870	720			740	610	4.51
	lb	*5250	4720	2950	2400	1920	1590			1630	1340	(14.8)
-2.0 m (-6.6 ft)	kg	*2750	2190	1370	1120					1020	850	3.65
	lb	*6060	4830	3020	2470					2250	1870	(12.0)

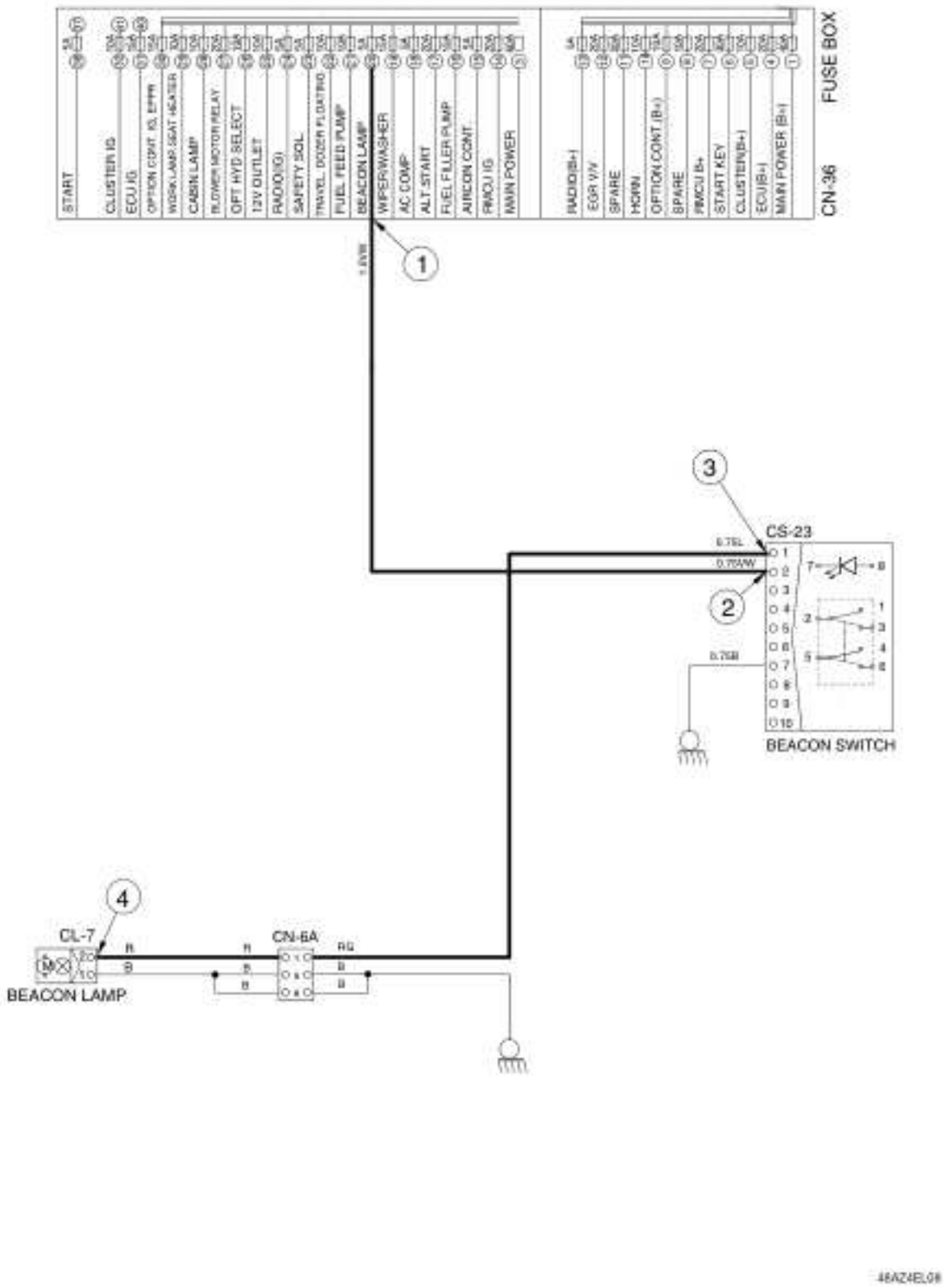
Note 1. Lifting capacity are based on ISO 10567.
2. Lifting capacity of the HX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The lift-point is bucket pivot mounting pin on the arm (without bucket mass).
4. *indicates load limited 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.
Please be aware of the local regulations and instructions for lifting operations.

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

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BEACON LAMP CIRCUIT

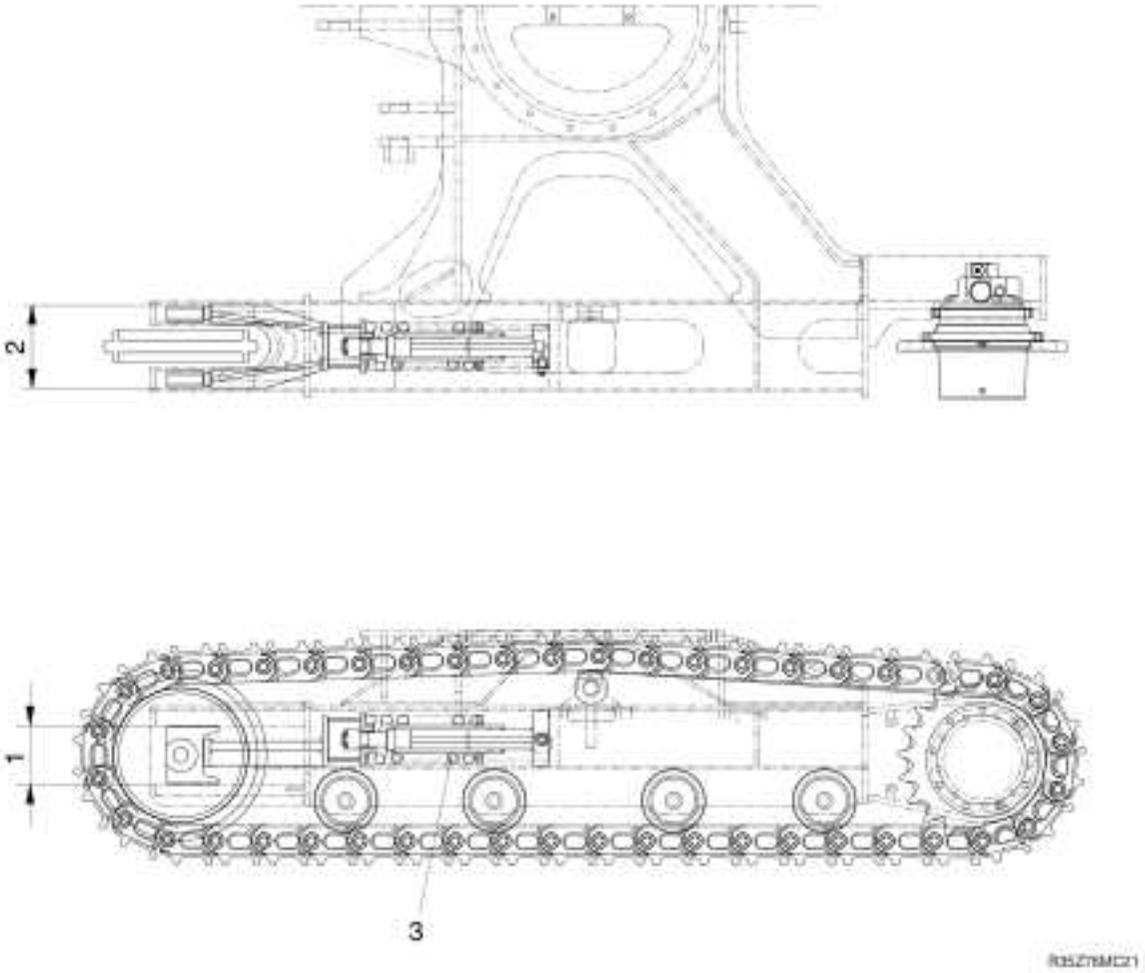


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※ The circuit diagram may differ from the equipment, so please check before a repair.

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5. TENSION CYLINDER (steel and rubber track)



Unit : mm

No	Check item	Criteria			Remedy
			Standard size	Repair limit	
1	Vertical width of idler guide	Track frame	101	105	Rebuild
		Idler support	100	104	Rebuild or replace
2	Horizontal width of idler guide	Track frame	192	196	Rebuild
		Idler guide	190	194	Rebuild or replace
3	Recoil spring	Standard size			Repair limit		Replace
		Free length	Installed length	Installed load	Free length	Installed load	
		296	230	4350 kg	-	3480 kg	

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(4) Fit the O-ring (214) into the plug (221).



(5) Fit the seal (213) into the plug (211).

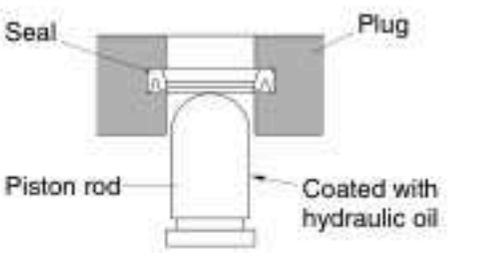
※ Fit the lip of the seal (213) as shown right.



(6) Fit the push-rod (212) into the plug (211).

※ Apply hydraulic oil to the surface of the push rod.





Push rod, plug & seals



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(8) The following operations should be carried out if necessary.

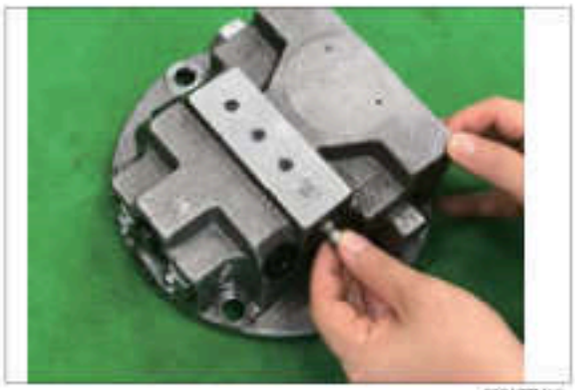
① Loosen the plug (302) and remove the restrictor (310).

※ If there is no problem with the 1st / 2nd speed switching, no special disassembly is required.



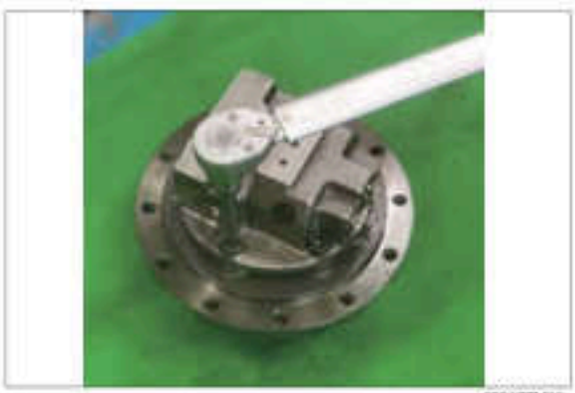
② Release plug (302) and disassemble in the following order: Seat casing (433) → steel ball (503) → seat (432).

※ If there is no problem with the 1st / 2nd speed switching, no special disassembly is required. Please be careful about the loss of the steel ball. Please be careful not to damage the inner diameter of the seat casing and seat.



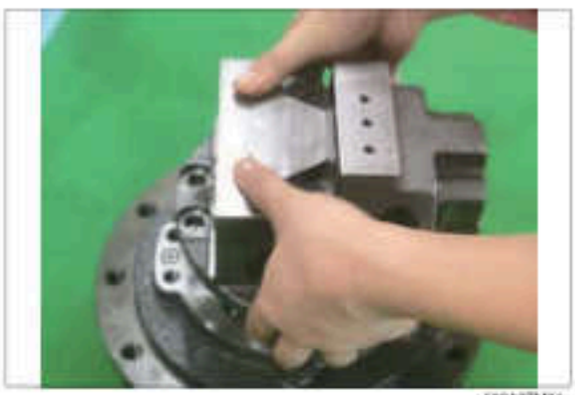
(9) Loosen screw (301) and remove valve casing (201) from casing (202).

※ (Due to the force of the brake spring E (117), when the screw (301) is unscrewed, the valve casing (201) is raised from the casing (202). Further, remove the valve plate (108) from the valve casing (201).



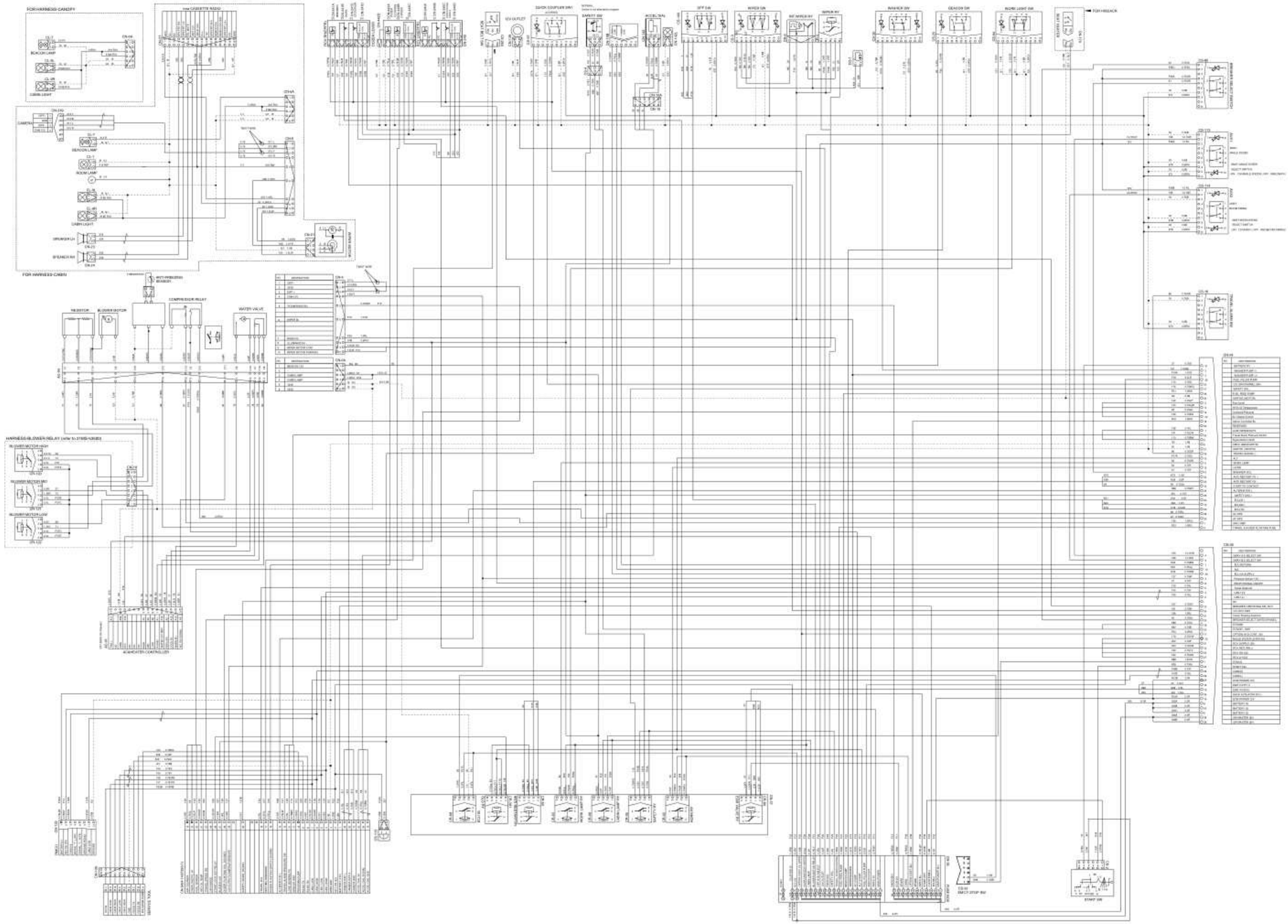
Carefully work so that the valve plate does not fall off the valve casing.

※ In some cases, the valve plate is attached to the cylinder block.
Be careful not to scratch the sliding surface and mating surface when you disassemble the mating surface with a screwdriver or the like.



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· ELECTRICAL CIRCUIT (1/2, Machine Serial No. : -#0006)



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