WHEELED EXCAVATOR

SERVICE MANUAL

HW250MH

HYUNDAI

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2-3. Component Weight & Transportation Dimension

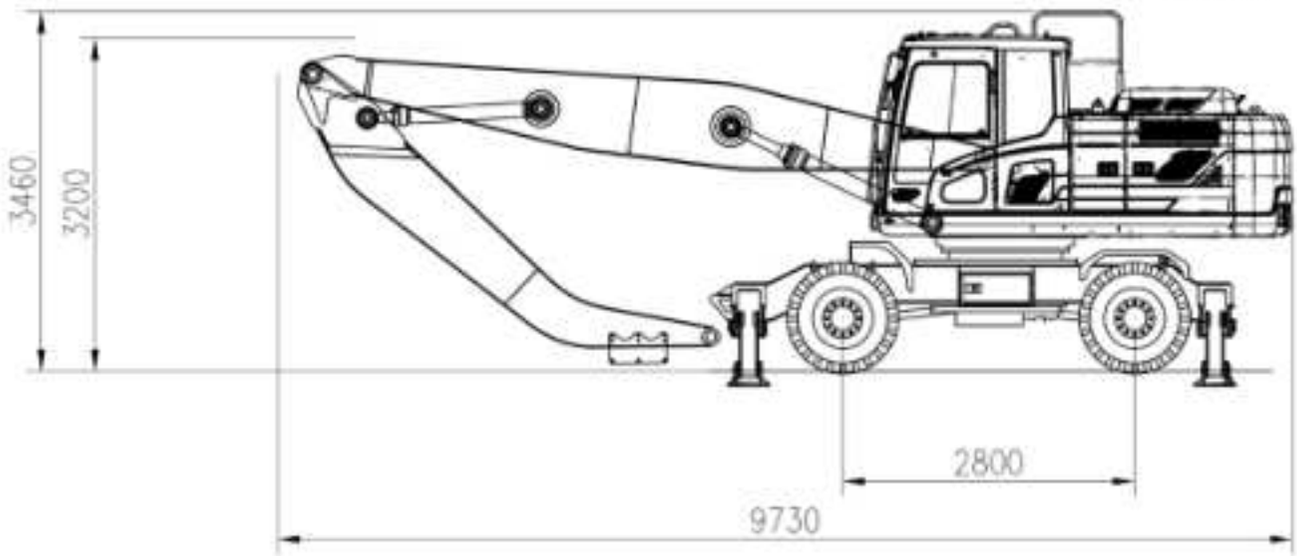
- Component Weight

Item	Unit	Weight	Remark
Upper Structure	kg	6,481.9	Without Counter Weight
Lower Structure	kg	8,641.8	
Counter Weight	kg	4,112.8	
Additional Counter Weight	kg	1,000	
Hydraulic Cabin Elevating	kg	2,060	
Boom	kg	1,830	Without cylinder
Boom cylinder	kg	388.6	2 EA
Arm cylinder	kg	290	2 EA
Arm	kg	1,248	
Orange Grapple	kg	1,460	
Total	kg	27,513.1	

- Transportation Dimension

Overall width : 3,340mm

unit: mm



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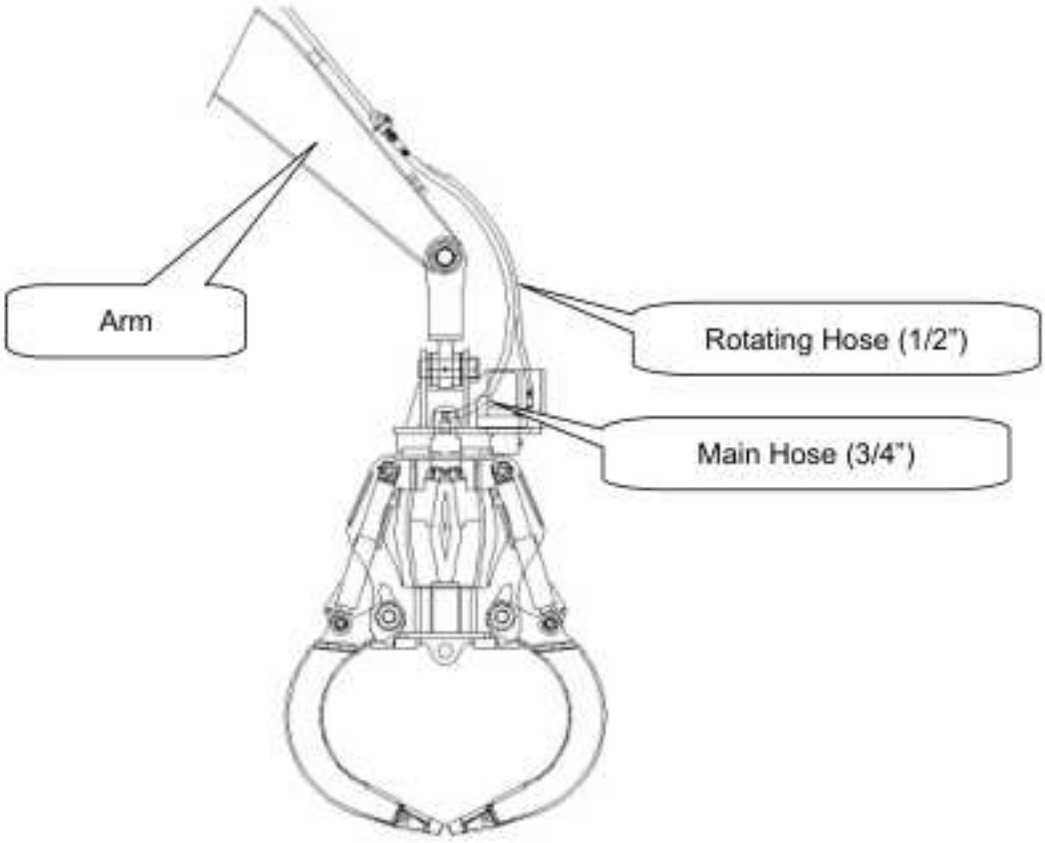
6. Troubleshooting

Trouble	Probable Cause
Poor hydraulic system performance	• Hydraulic oil not at operating temperature.
	• Engine speed too low.
	• Reservoir low on oil
	• Restrictions in lines
	• Cooling circuit, pump control system and/or pilot control circuit defective.
	• Internal leakage (control blocks, valves or power units.)
	• Pressure lines twisted or kinked
	• Spool not in full stroke.
	• Relief valve defective, or out of adjustment.
	• Worn cylinders.
	• Defective hydraulic pump.
Jerky motion of power cylinders	• Piston rod bent
	• Piston sticking
	• Inside diameter of cylinder tube partially increased or scored
	• Air in control circuit
	• Oil too cold
	• Valve spool sticking, centering springs defective
	• Pump and/or engine control system defective
	• Valve of power circuit defective
Noisy operation	• Incorrect lubricant or oil level too low
	• Bearings scored or damaged.
	• Sun gear teeth excessively worn or damaged
	• Bearings of planetary pinions worn

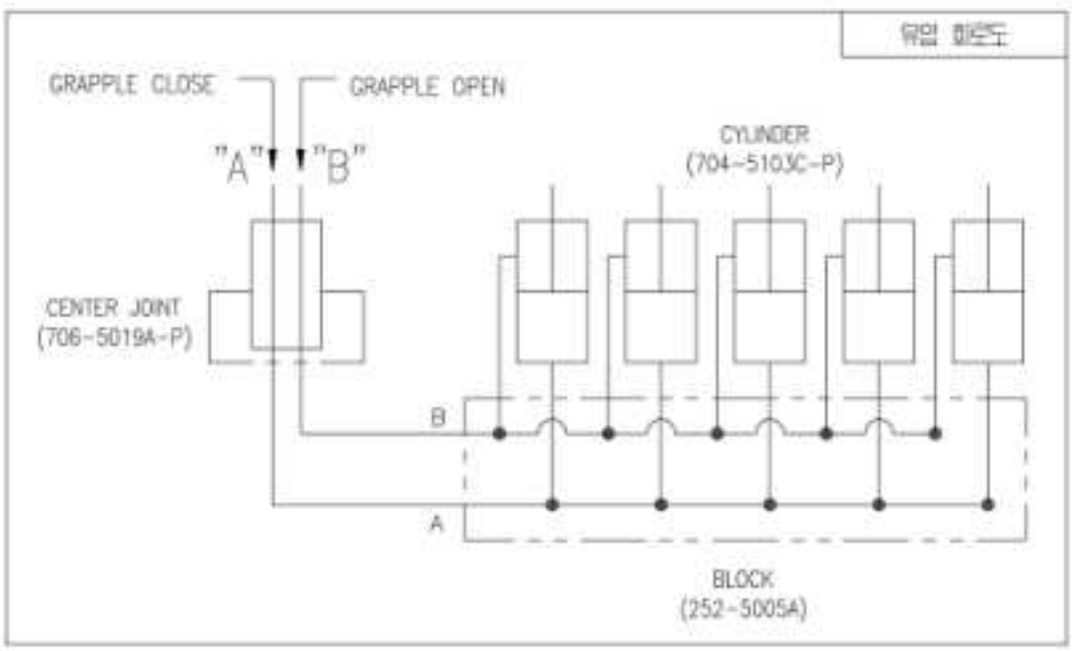
* In the event of equipment failure stop all work, move the equipment to a safe place, and contact the Hyundai Construction Equipment or Hyundai dealer.

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3) Connect hydraulic hoses to arm



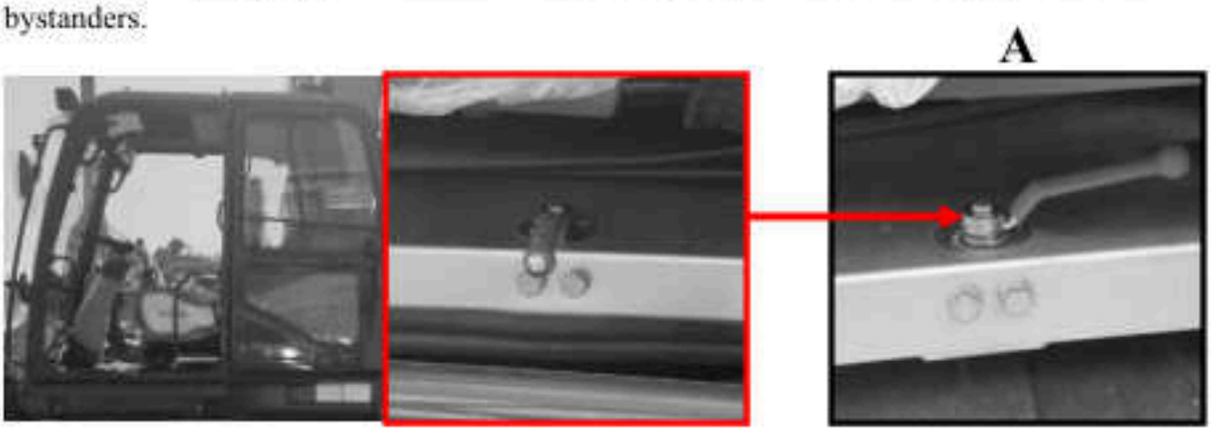
4) Hydraulic circuit diagram



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1-3. Emergency Lowering of Elevating Cabin

Before lowering any equipment with the engine stopped, clear around the equipment of all bystanders.



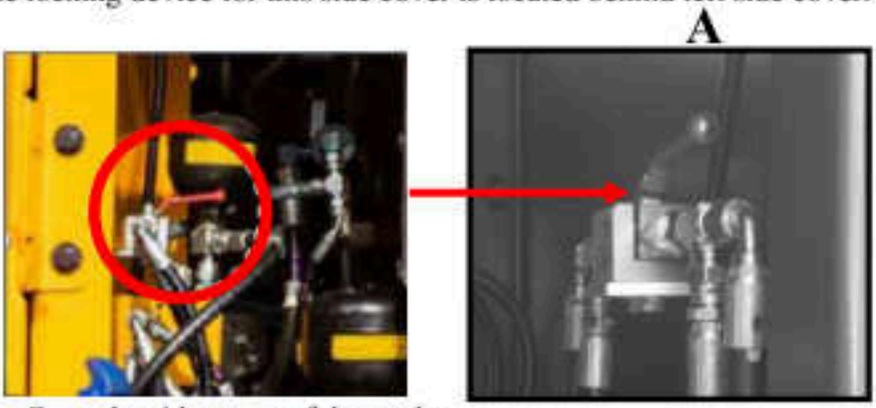
A - Emergency Cabin lowering : Inside the operator station

- Turn the lever (A) beside the rubber mat clockwise. The cabin slowly descending accordingly.
- On descending completed, return the lever to the original position, (see above photo)

B - Emergency Cabin lowering : from the outside

If the operator in the cab is not able to lower the cab, it is possible to lower the cab from the outside on the ground.

The locking device for this side cover is located behind left side cover.

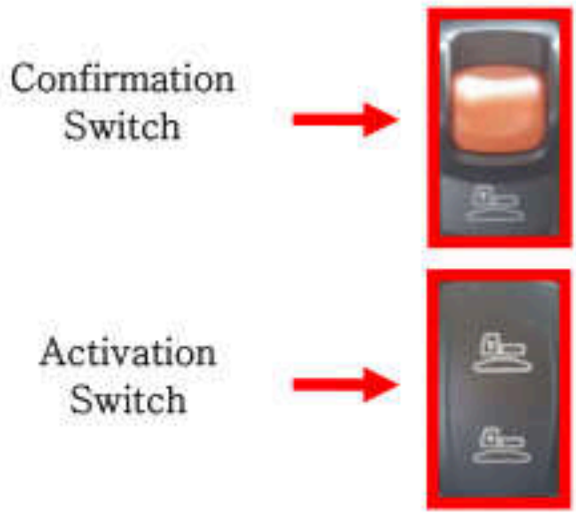


- Open the side cover of the cooler
- Turn the lever (A) until the cab starts lowering.
- When the cab is completely down, return the lever to the original position, see above Photo.

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4-2. Cabin Elevating Operation





Elevating cab switch

Lifting the operator station.

1. Close the door and fasten the seat belt.
2. Lock the pilot cutoff lever.
3. Start the engine.
4. Lower the stabilizers and ensure the machine stability.
5. Turn the confirmation switch on (and buzzer starts).
6. Press and hold cabin elevating switch forward.
7. When the station arrives intended height, release the elevating switch.
8. Turn the confirmation switch off (and buzzer stops).

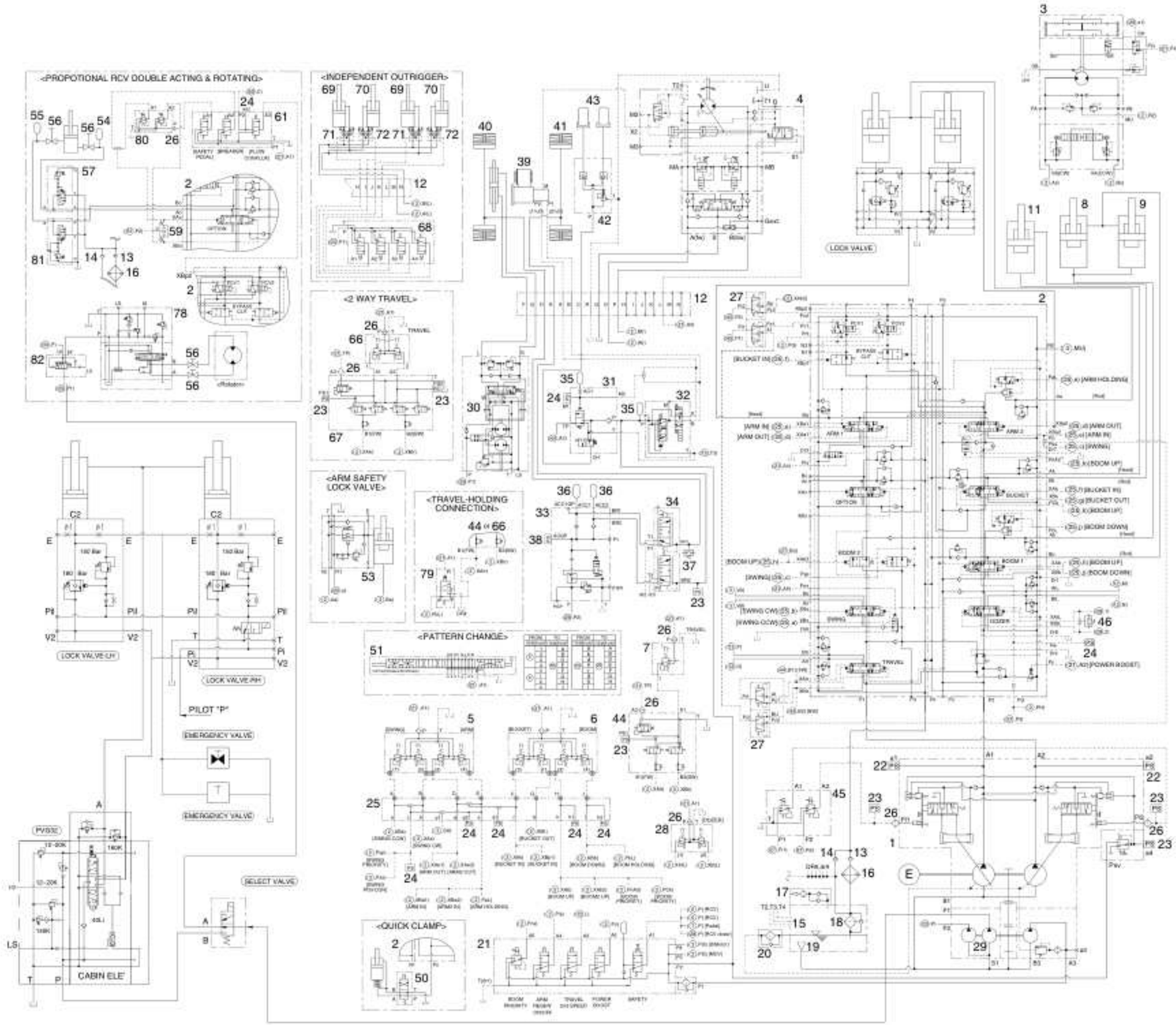
**** When you lower the cabin, please turn off the parking switch.**

Lowering the operator station

1. Close the door and fasten the seat belt.
2. Lock the pilot cutoff lever.
3. Lower the stabilizers and ensure the machine stability.
4. Turn the confirmation switch on (and buzzer starts)
5. Press and hold cabin elevating switch downward.
6. After lowering completed, release the elevating switch.
7. Turn the confirmation switch off (and buzzer stops).

**** When you operate elevating cabin, you should check the mirrors on the bottom to avoid crash between cabin and Lower Equipment.**

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1 Main pump
2 Main control valve
3 Swing motor
4 Travel motor
5 RCV lever(LH)
6 RCV lever(RH)
7 RCV pedal
8 Boom cylinder(LH)
9 Boom cylinder(RH)
10 Arm cylinder
11 Bucket cylinder
12 Turning joint
13 Check valve
14 Check valve
15 Hydraulic tank
16 Oil cooler
17 Air breather
18 Bypass valve & return element
19 Strainer
20 Drain filter
21 Pilot filter & 5 solenoid valve
22 Pressure sensor
23 Pressure sensor
24 Pressure sensor
25 Shuttle block
26 Last guard filter
27 Shuttle valve
28 RCV dozer
29 Power train pump
30 Steering valve
31 Travel control valve
32 Transmission control valve
33 Brake supply valve
34 Brake valve
35 Accumulator
36 Accumulator
37 Pressure switch(5k)
38 Pressure sensor(200k)
39 Transmission
40 Front axle
41 Rear axle
42 Locking valve
43 Oscillating cylinder
44 3 solenoid valve
45 2 EPPR solenoid valve
46 Pressure switch
50 Quick clamp solenoid valve(option)
51 Pattern change valve(option)
52 Boom safety lock valve(option)
53 Arm safety lock valve(option)
54 Accumulator(option)
55 Accumulator(option)
56 Stop valve(option)
57 Propotional relief valve(option)
58 Solenoid valve(option)
59 Shuttle valve(option)
60 2 way pedal(option)
61 Solenoid valve(option)
64 Solenoid valve(option)
65 Solenoid valve(option)
66 RCV pedal(2 way, option)
67 5 solenoid valve(option)
68 4 solenoid valve(option)
69 Outrigger/dozer cylinder(LH, option)
70 Outrigger/dozer cylinder(RH, option)
71 Pilot check valve(LH, option)
72 Pilot check valve(RH, option)
73 Adjustable boom cylinder(option)
75 Control valve(option)
76 Propotional relief valve(option)
78 Propotional valve(option)
79 Pilot selector valve(option)
80 2 EPPR valve(option)
81 Propotional relief valve(option)
82 Priority valve(option)

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