WHEEL LOADER

SERVICE MANUAL

HL940 Tier 3

HYUNDAI

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3. WEIGHT

Item		kg	lb
Front frame assembly		935	2065
Rear frame assembly		1342	2960
Front fender (LH & RH)		61	135
Rear fender (LH & RH)		95	210
Counterweight	HL940 T3	300	665
	HL940XT T3	500	1105
Cab assembly		726	1605
Engine assembly		555	1225
Transmission assembly		404	895
Driveshaft (front)		12	30
Driveshaft (center)		18	40
Driveshaft (rear)		10	25
Front axle (include differential)		750	1655
Rear axle (include differential)		772	1705
Tire (20.5 R25 L3 ★★)		696	1535
Hydraulic tank assembly		150	335
Fuel tank assembly		280	620
Main pump assembly		23	55
Fan & brake pump assembly		23	55
Main control valve (2/3 spool)		42/55	95/125
Steering valve (Priority valve)		8	20
Boom assembly	HL940 t3	720	1590
	HL940XT t3	945	2085
Bell crank assembly		260	575
Bucket link		35	80
2.3 m^3 bucket, with bolt on cutting edge		1110	2450
2.1 m^3 bucket, with bolt on cutting edge		1070	2360
Quick coupler		1040	2295
Boom cylinder assembly		85	190
Bucket cylinder assembly (HL940 T3/HL940XT T3)		95/115	210/255
Steering cylinder assembly		17	37
Seat (Including suspension and armrest)		78	175
Under guard Kit		46	105
Engine Hood assembly		293	650
Mud guard assembly (LH / RH)		41	95
Battery (1EA)		30	70

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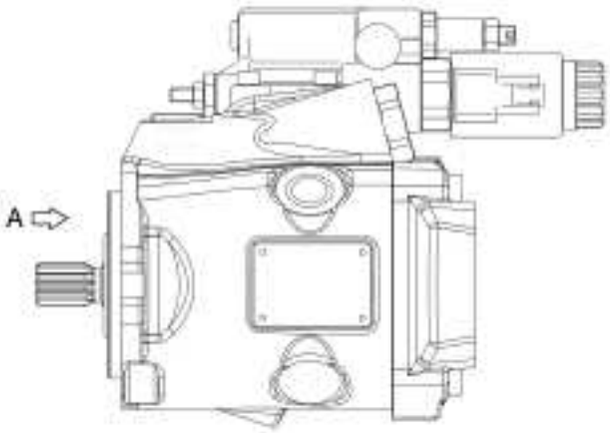
Fault code J1939 SPN J1939 FMI	Reason	Effect (only when fault code is active)
4149 2623 8	Accelerator pedal or lever position sensor 2 circuit frequency - Abnormal frequency or pulse width or period. The accelerator pedal position sensor reading is out of range.	The engine will operate in Limp Home mode.
4151 5742 9	Aftertreatment diesel particulate filter temperature sensor module - Abnormal update rate. No communications on the J1939 data link between the ECM and the aftertreatment diesel particulate filter temperature sensor module.	Possible reduced engine performance.
4152 5743 9	Aftertreatment selective catalytic reduction temperature sensor module - Abnormal update rate. No communications on the J1939 data link between the ECM and the aftertreatment SCR temperature sensor module.	Possible reduced engine performance.
4155 5746 3	Aftertreatment 1 diesel exhaust fluid dosing unit heater relay - Voltage above normal, or shorted to high source. High signal voltage detected at the aftertreatment diesel exhaust fluid dosing unit heater relay circuit.	Possible reduced engine performance.
4156 5746 4	Aftertreatment 1 diesel exhaust fluid dosing unit heater relay - Voltage below normal, or shorted to low source. Low signal voltage detected at the aftertreatment diesel exhaust fluid dosing unit heater relay circuit.	Possible reduced engine performance.
4157 4376 7	Aftertreatment diesel exhaust fluid return valve - Mechanical system not responding or out of adjustment. A stuck aftertreatment diesel exhaust fluid return valve has been detected.	None on performance.
4158 5742 12	Aftertreatment diesel particulate filter temperature sensor module - Bad intelligent device or component. An internal error has been detected in the aftertreatment diesel particulate filter temperature sensor module.	Possible reduced engine performance.
4159 5743 12	Aftertreatment selective catalytic reduction temperature sensor module - Bad intelligent device or component. An internal error has been detected in the aftertreatment SCR temperature sensor module.	Possible reduced engine performance.
4161 5742 3	Aftertreatment diesel particulate filter temperature sensor module - Voltage above normal, or shorted to high source. High battery supply voltage detected at the aftertreatment diesel particulate filter temperature sensor module.	Possible reduced engine performance.
4162 5742 4	Aftertreatment diesel particulate filter temperature sensor module - Voltage below normal, or shorted to low source. Low battery supply voltage detected at the aftertreatment diesel particulate filter temperature sensor module.	Possible reduced engine performance.

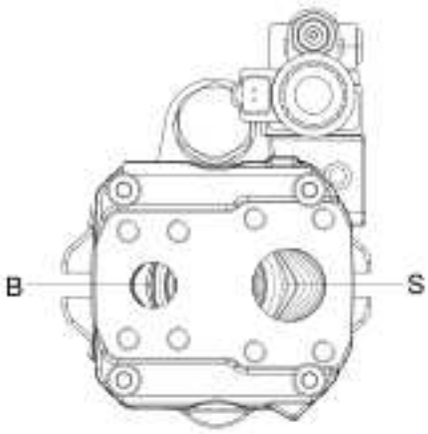
※ Some fault codes are not applied to this machine.

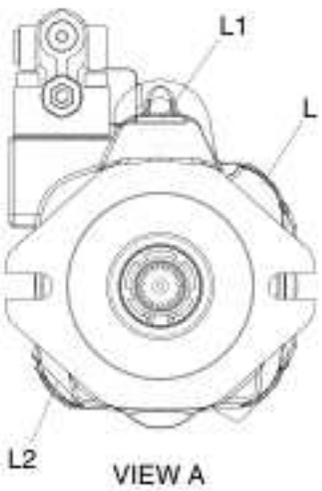
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3. FAN AND BRAKE PUMP

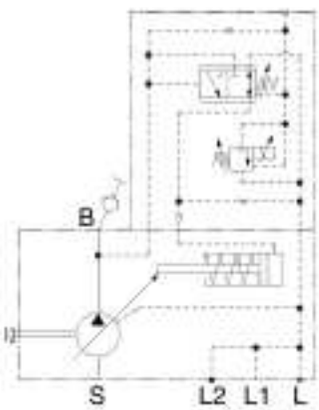
1) STRUCTURE







VIEW A



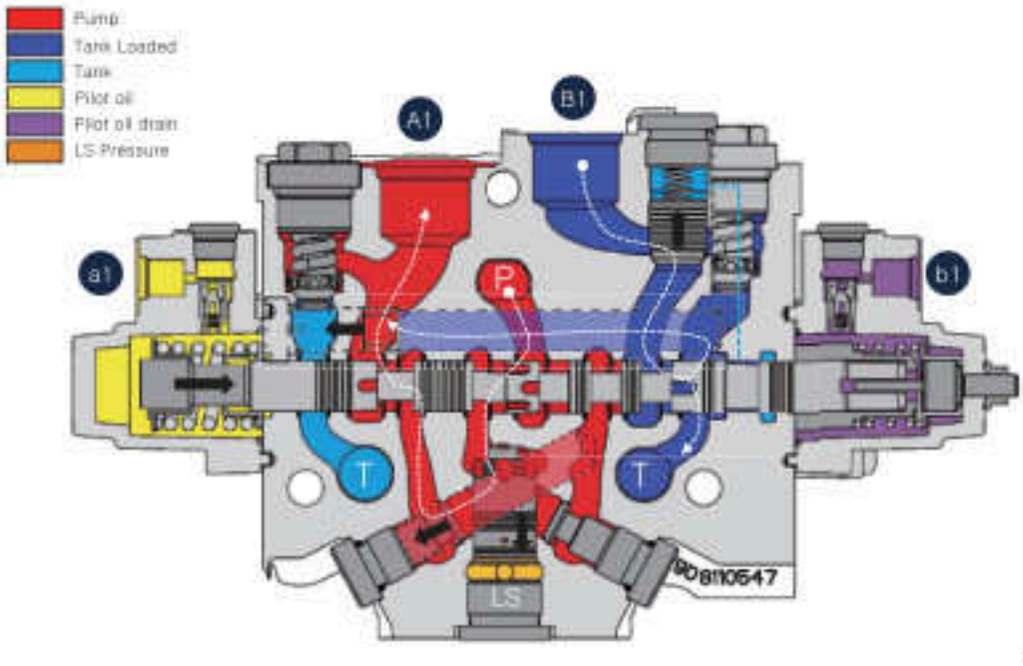
Hydraulic circuit

Port	Port name	Port size
B	Delivery port	SAE 3/4"
S	Suction port	SAE 1 1/4"
L, L1, L2	Drain port	3/4-16UNF-2B

7600A4BS30

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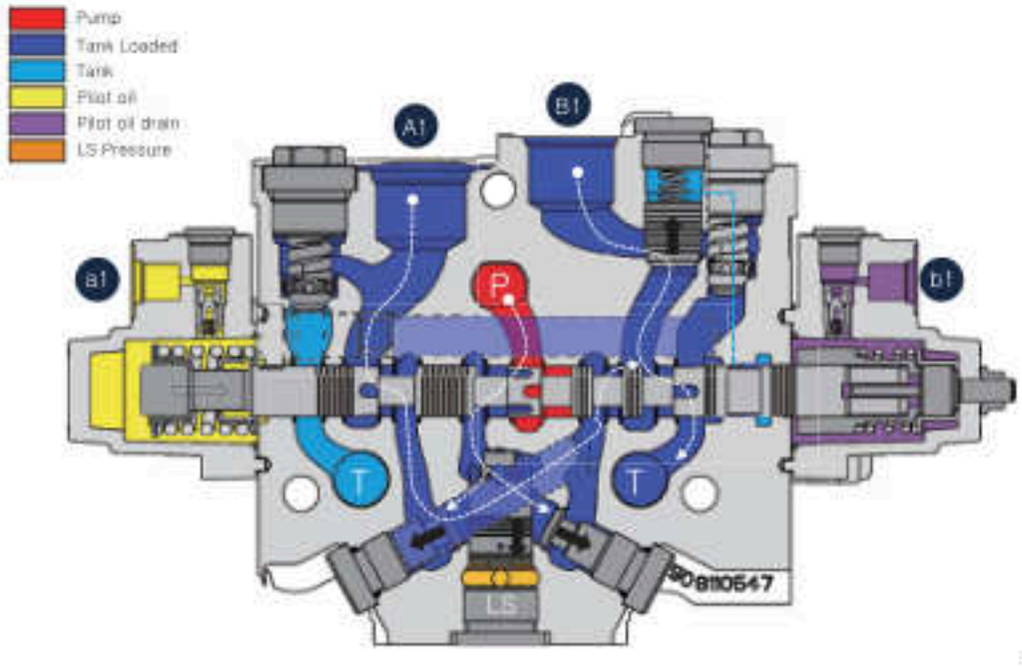
(4) Boom lower position



940AEWE14

When the pilot pressure is led to the port a1, the oil from the pump flows to the cylinder port A1 and oil from the cylinder flows into the tank through the cylinder port B1. If pressure in A1 becomes too low, flow from the tank avoid fullfiled A1 through tank regen channel.

(5) Boom float position

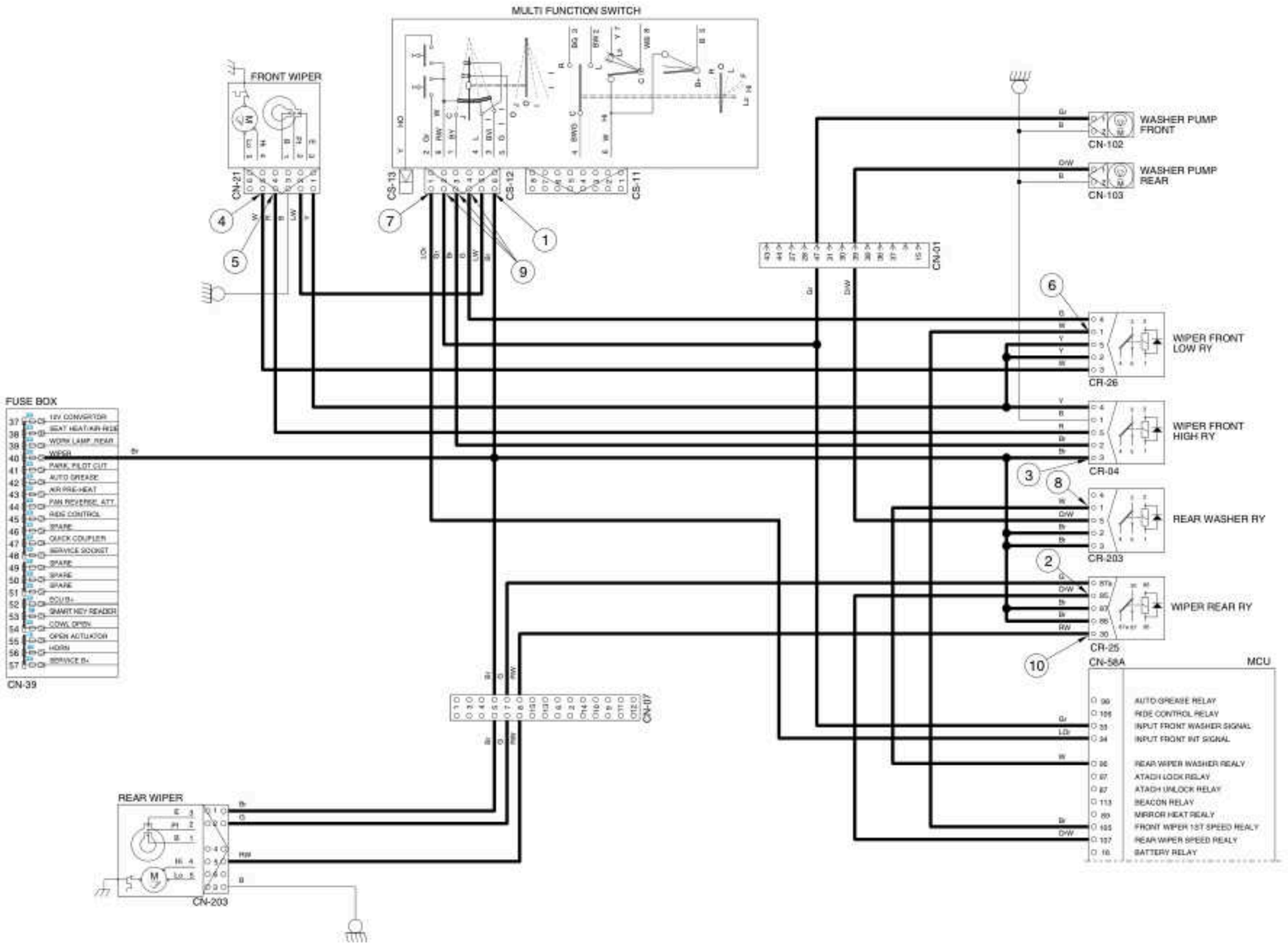


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When the pilot pressure is led to the port a1 in 4th position, the oil from the pump flows to the cylinder port A1 & A1 and oil from the cylinder flows into the tank through the cylinder port B1 & A1 to let cylinder free of movement.

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WIPER AND WASHER CIRCUIT



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

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