WHEELED EXCAVATOR

SERVICE MANUAL

R170W-7

HYUNDAI

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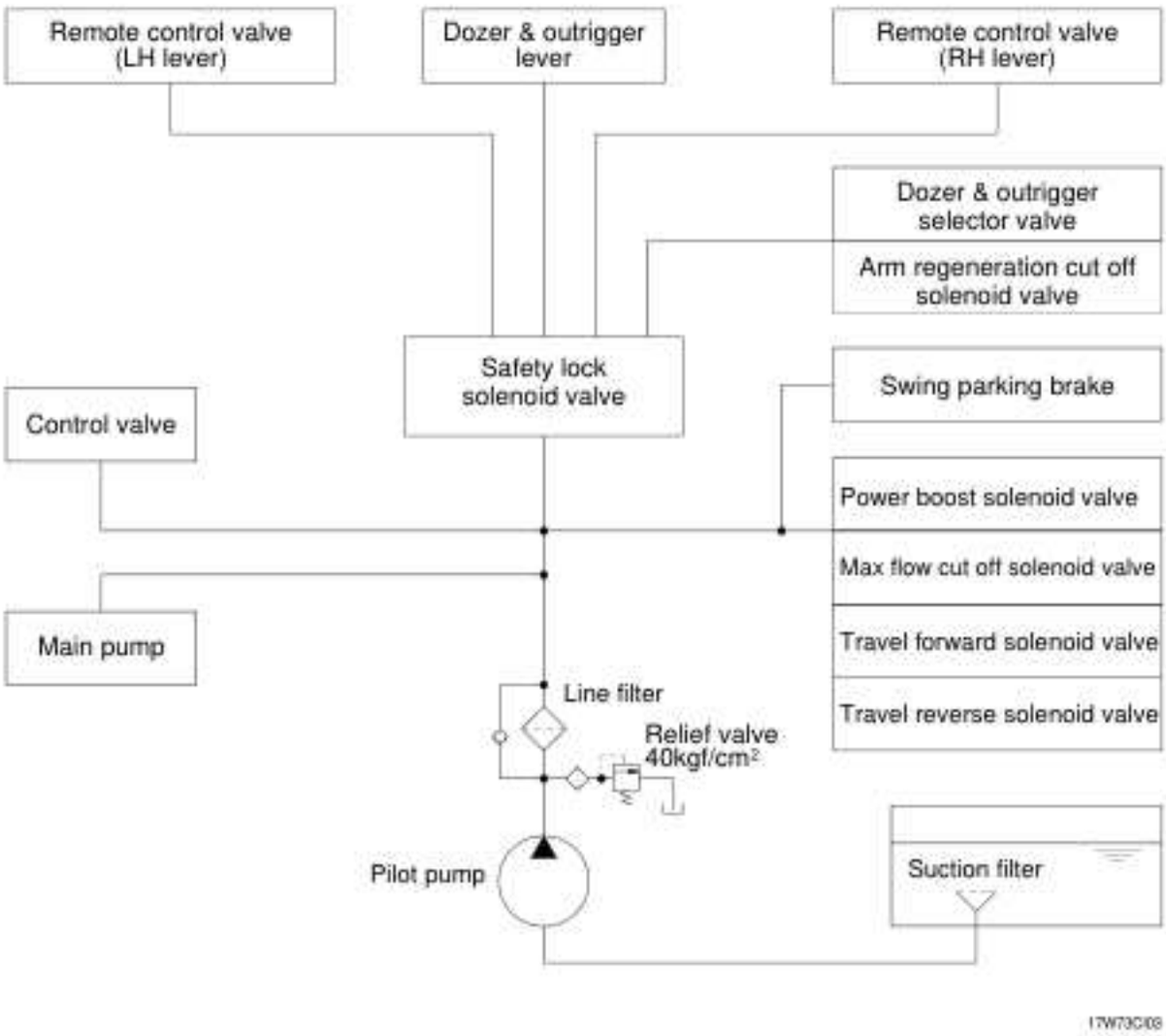
4. WEIGHT

1) MONO BOOM

Item	R170W-7	
	kg	lb
Upperstructure assembly	4490	9900
Main frame weld assembly	1400	3090
Engine assembly	350	770
Main pump assembly	90	200
Main control valve assembly	80	180
Swing motor assembly	250	550
Hydraulic oil tank assembly	180	400
Fuel tank assembly	140	310
Counterweight	2750	6060
Cab assembly	310	680
Lower frame weld assembly	1640	3615
Swing bearing	260	570
Travel motor assembly	60	130
Turning joint	100	220
Transmission assembly	130	290
Front axle assembly	500	1110
Rear axle assembly	400	890
Dozer blade assembly	830	1830
Front attachment assembly(5.1m boom, 2.2m arm, 0.76m³ SAE heaped bucket)	2990	6590
5.1m boom assembly	1050	2315
2.2m arm assembly	480	1050
0.76m³ SAE heaped bucket assembly	570	1260
Boom cylinder assembly	160× 2EA	350× 2EA
Arm cylinder assembly	180	400
Bucket cylinder assembly	140	310
Bucket control link assembly	120	265
Oscillating cylinder assembly	30	70
Front outrigger assembly	1020	2250
Rear outrigger assembly	1010	2230
Outrigger cylinder assembly	80	180
Blade cylinder assembly	55	120

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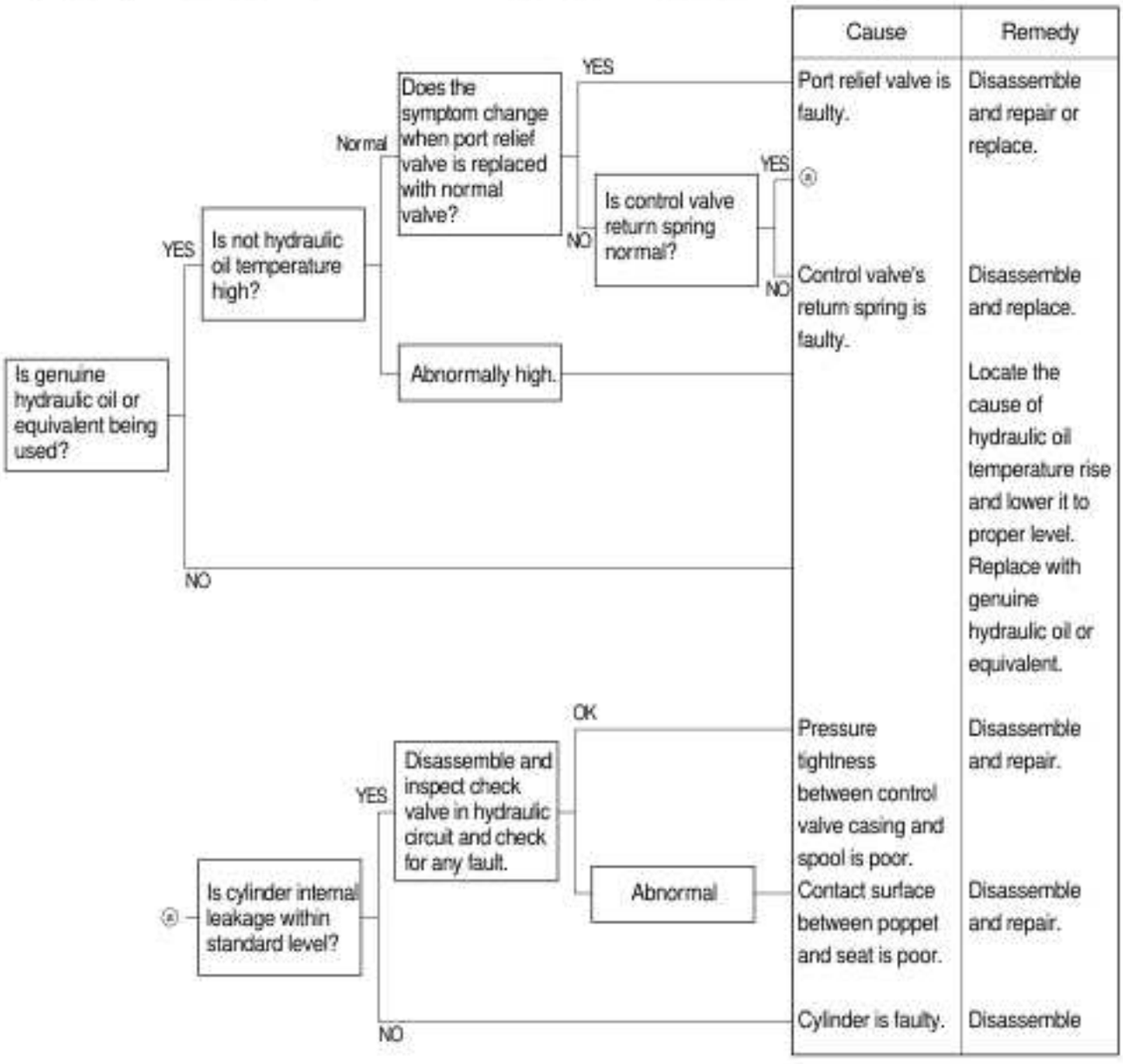
GROUP 3 PILOT CIRCUIT



The pilot circuit consists of suction circuit, delivery circuit and return circuit.
The pilot pump is provided with relief valve, receives the oil from the hydraulic tank through the suction filter.
The discharged oil from the pilot pump flows to the remote control valve, EPPR valve, solenoid valve assemblies, swing parking brake, main control valve and safety lock solenoid valve through line filter.

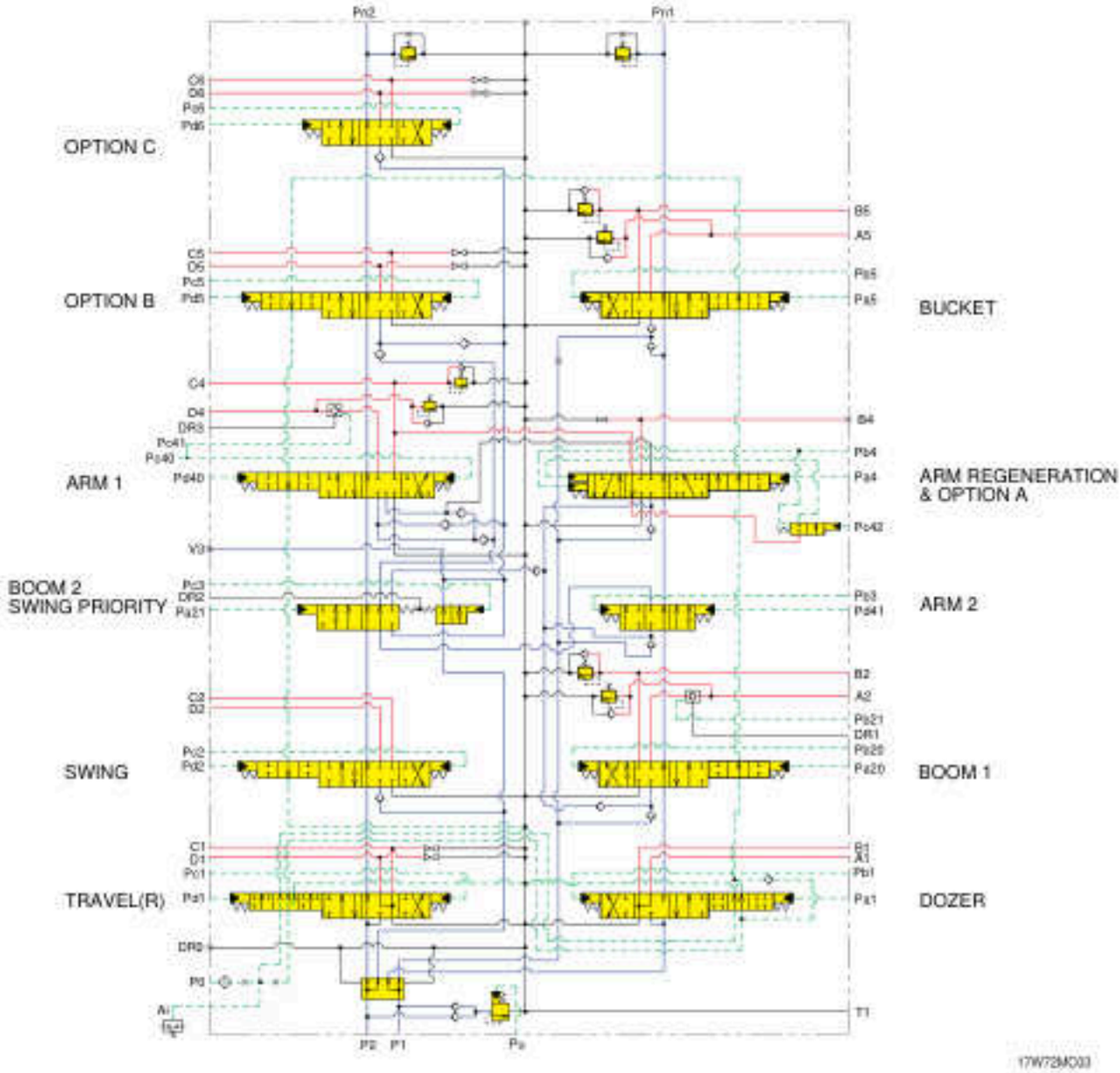
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3) BOOM, ARM OR BUCKET CYLINDER EXTENDS OR CONTRACTS ITSELF AND ATTACHMENT FALLS



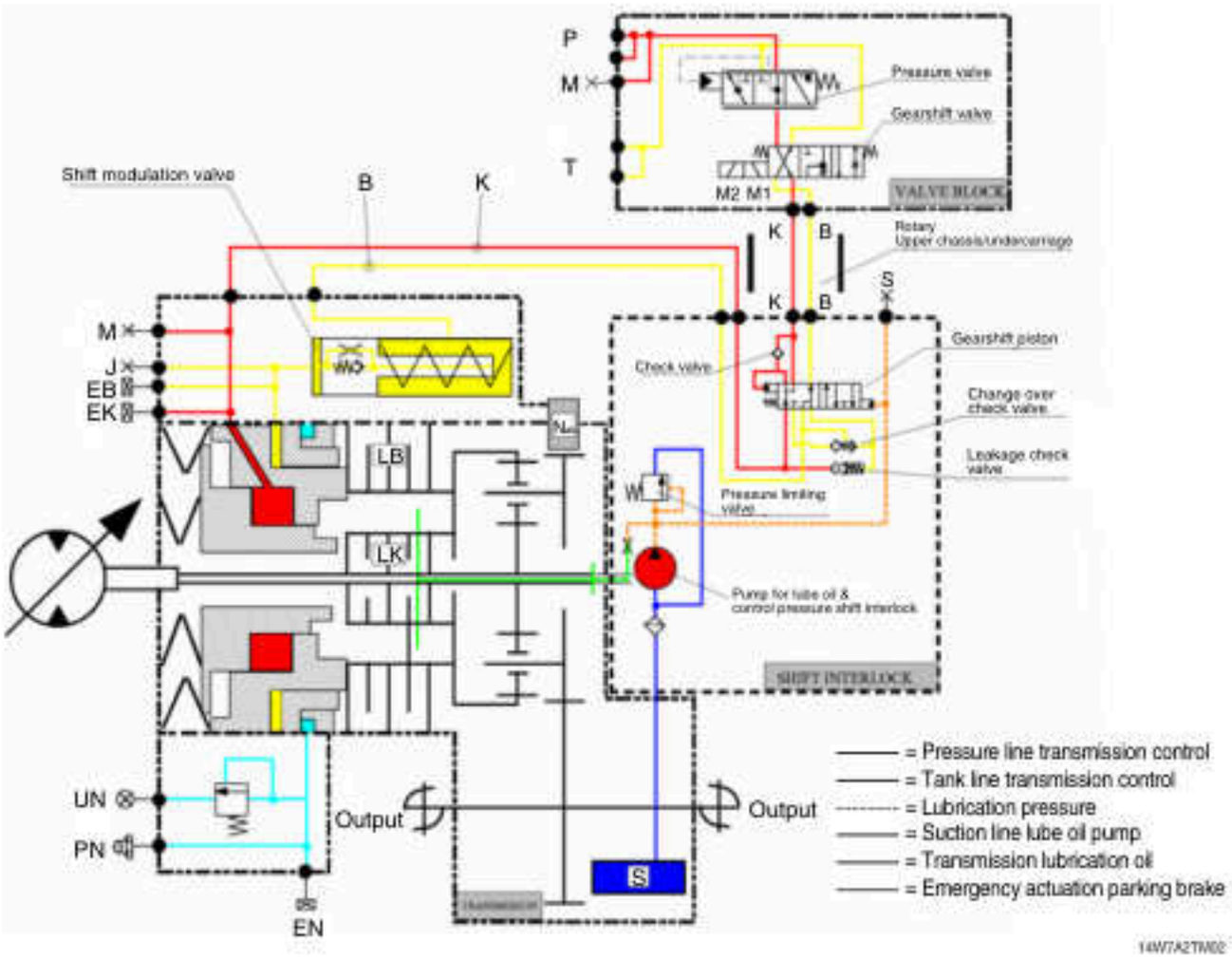
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2. HYDRAULIC CIRCUIT



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2. TRANSMISSION DIAGRAM



Measuring points-Transmission/Shift interlock :
J : High speed (brake)
M : Low speed (clutch)
S : Lubrication pressure

Connections-Transmission/Shift interlock :
B : Brake
K : Clutch
PN : Emergency actuation parking brake

Measuring points-Valve block :
M : System pressure transmission control

Connections-Valve block :
P : System pressure transmission control
T : Tank
B : Brake
K : Clutch

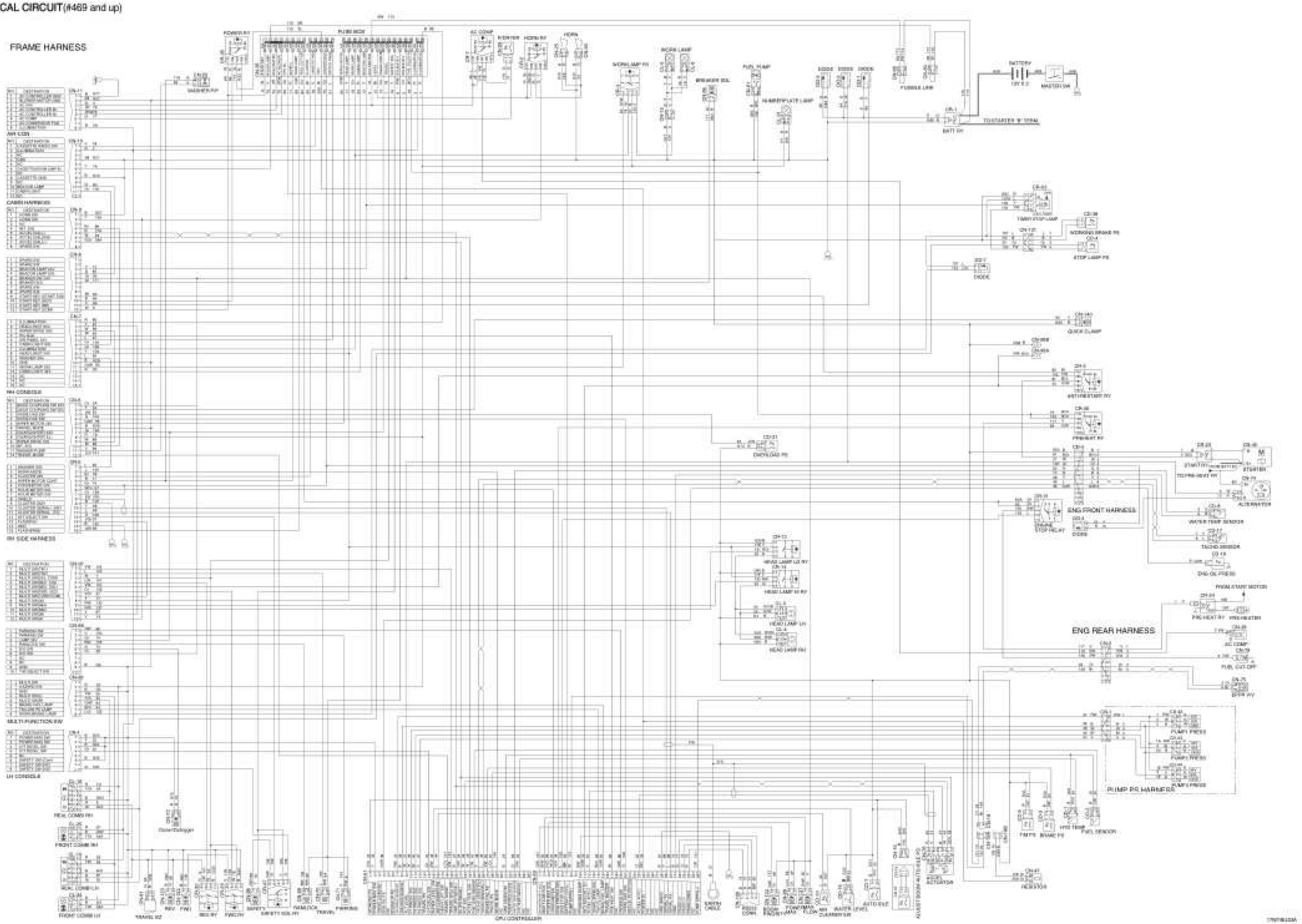
Solenoid valves valve block :
M1 : Solenoid valve (Low speed)
M2 : Solenoid valve (High speed)

Port	Name	Size	Port	Name	Size
P1(B)	Shift pressure, High speed	M16 × 1.5	M	Gauge port, Low speed	M10 × 1.0
P2(K)	Shift pressure, Low speed	M16 × 1.5	S	Lubrication pressure port	M10 × 1.0
J	Gauge port, High speed	M10 × 1.0	PN	Parking brake lubricant	Grease nipple

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ELECTRICAL CIRCUIT(#469 and up)

FRAME HARNESS



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