CRAWLER EXCAVATOR

SERVICE MANUAL

R35Z-7A

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 2-9
Group 3 Swing Device 2-38
Group 4 Travel Device 2-49
Group 5 RCV Lever 2-68

SECTION 3 HYDRAULIC SYSTEM

Group 1 Hydraulic Circuit 3-1
Group 2 Main Circuit 3-2
Group 3 Pilot Circuit 3-5
Group 4 Single Operation 3-10
Group 5 Combined Operation 3-22

SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location 4-1
Group 2 Monitoring system 4-3
Group 3 Electrical Circuit 4-9
Group 4 Electrical Component Specification 4-25
Group 5 Connectors 4-32

SECTION 5 TROUBLESHOOTING

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

SECTION 6 MAINTENANCE STANDARD

Group 1 Operational Performance Test 6-1
Group 2 Major Components 6-21
Group 3 Track and Work Equipment 6-31

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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 7-33
Group 5 Swing Device 7-47
Group 6 Travel Device 7-63
Group 7 RCV Lever 7-90
Group 8 Turning Joint 7-104
Group 9 Boom, Arm and Bucket Cylinder 7-109
Group 10 Undercarriage 7-128
Group 11 Work Equipment 7-141

SECTION 8 COMPONENT MOUNTING TORQUE

Group 1 Introduction Guide 8-1
Group 2 Engine System 8-2
Group 3 Electric System 8-4
Group 4 Hydraulic System 8-5
Group 5 Undercarriage 8-7
Group 6 Structure 8-8
Group 7 Work Equipment 8-10

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2) 2.5m(8' 2") boom, 1.3m(4' 3") arm equipped with 0.11m³(SAE heaped) bucket and 300mm(12") rubber track, the dozer blade down with 420kg(925lb) counterweight.

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

Load point height		Load radius								At max. reach		
		1.0m(3.3ft)		2.0m(6.6ft)		3.0m(9.9ft)		4.0m(13.2ft)		Capacity		Reach
												m(ft)
4.0m (13.2ft)	kg									*700	510	3.94
	lb									*1540	1120	(12.9)
3.0m (9.9ft)	kg							*760	470	*630	360	4.74
	lb							*1680	1040	*1390	790	(15.6)
2.0m (6.6ft)	kg					*1780	750	1410	460	*620	300	5.11
	lb					*3920	1650	3110	1010	*1370	660	(16.8)
1.0m (3.3ft)	kg					2400	690	1380	440	*650	290	5.18
	lb					5290	1520	3040	970	*1430	640	(17.0)
Ground Line	kg			*1730	1260	2340	650	1360	420	*740	300	4.98
	lb			*3810	2780	5160	1430	3000	930	*1630	660	(16.3)
-1.0m (-3.3ft)	kg	*2100	*2100	*2850	1270	2330	650	1350	420	*920	370	4.45
	lb	*4630	*4630	*6280	2800	5140	1430	2980	930	*2030	820	(14.6)
-2.0m (-6.6ft)	kg			*3540	1310	*2050	670					
	lb			*7800	2890	*4520	1480					

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 load point is a hook located on the back of the bucket.
4. *indicates load limited by hydraulic capacity.

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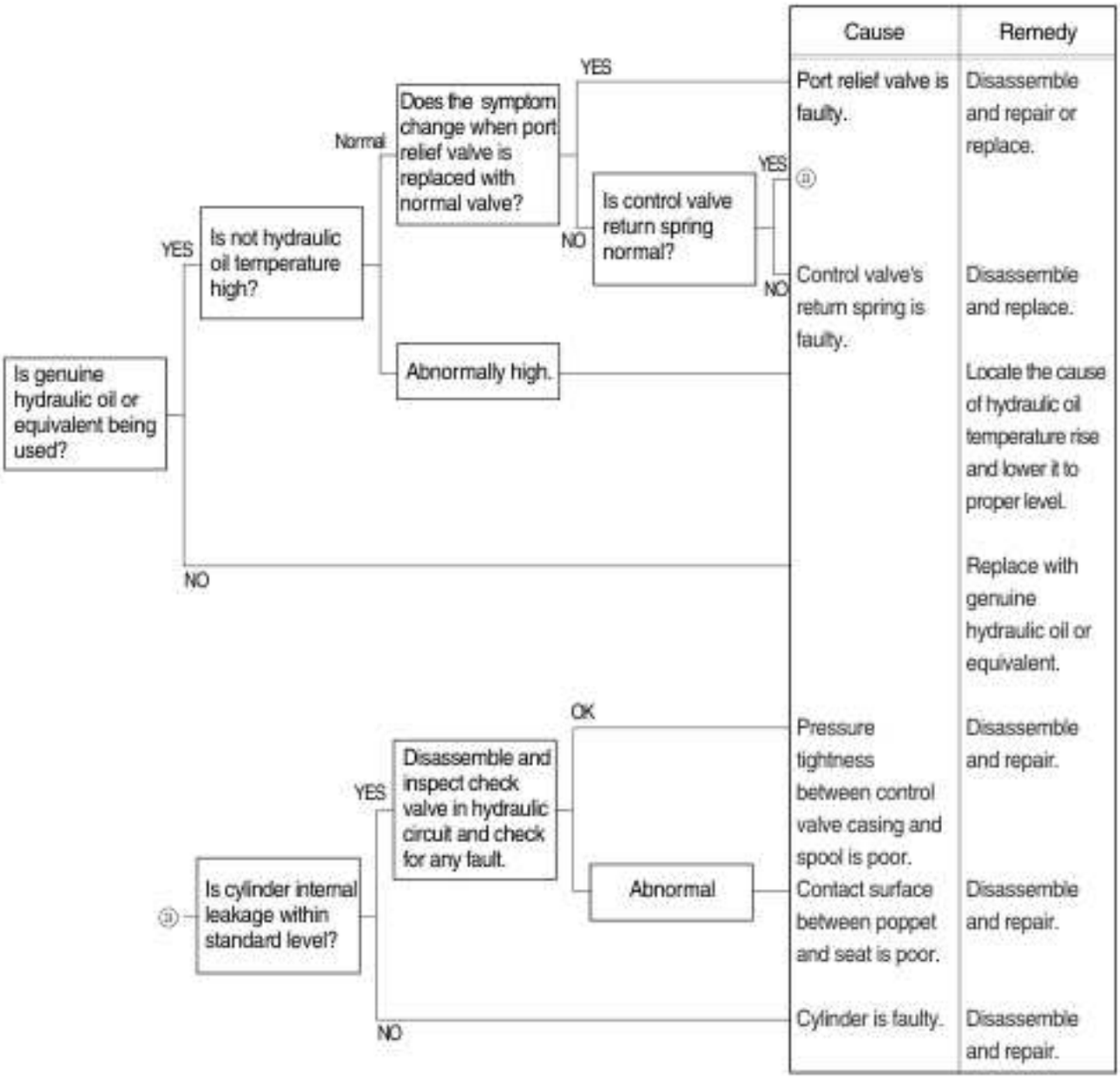
GROUP 5 CONNECTORS

1. CONNECTOR DESTINATION

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	-	15	Cabin room harness-RH	2-85262-1	368301-1
CN-2	-	15	Cabin room harness-RH	2-85262-1	368301-1
CN-3	-	15	Cabin room harness-LH	2-85262-1	368301-1
CN-4	AMP	4	Front-RH side harness	S810-004202	S810-104202
CN-5	AMP	2	Relay harness	S813-030201	S813-130201
CN-6	-	15	Relay harness	2-85262-1	368301-1
CN-7	AMP	4	Relay harness	S810-004202	S810-104202
CN-8	-	15	Relay harness	2-85262-1	368301-1
	AMP	1	Air-con harness	-	S810-101202
CN-9	AMP	1	Air-con harness	S810-001202	S810-101202
CN-10	AMP	2	Cabin lamp	-	S816-102002
CN-11	AMP	8	Cabin harness	S810-008202	S810-108202
CN-11-1	AMP	2	Canopy harness	S816-002002	S816-102002
CN-12	AMP	2	Boom harness	S816-002002	S816-102002
CN-20	-	2	Horn	35825-0211	-
CN-21	AMP	4	Wiper harness	180900-0	-
CN-22	KET	2	Washer tank	MG640605	-
CN-23	KET	1	Speaker LH	S822-014002	S822-114002
CN-24	KET	1	Speaker RH	S822-014002	S822-114002
CN-27	-	14	Cassette radio	173852-1	-
CN-28	KET	2	Air-con comp	MG640165	-
CN-29	KET	2	Receiver dryer	MG640795	-
CN-31	-	3	Air-con harness	DT06-3S	DT04-3P
CN-45	TERM	1	Starter	S820-305002	-
	TERM	1		S820-308002	-
CN-46	AMP	4	Heater	180900-0	
CN-48	AMP	3	Hour meter	S810-003202	
CN-55	AMP	2	Travel alarm PS	S816-002002	S816-102002
CN-56	AMP	17	Cluster	172500-1	-
CN-60	AMP	2	Fusible link	-	S831-130200
CN-62	AMP	4	Air-con heater timer	MG610047-5	-
CN-68	DEUTSCH	2	Safety solenoid	DT06-2S-P012	-
CN-70	DEUTSCH	2	Travel HI-LO solenoid	DT06-2S-P012	-
CN-74	SUMITOMO	3	Alternator	6189-0443	-
CN-79	SWP	3	Fuel cut-off solenoid	S813-060300	-
CN-80	TERM	1	Pre heater	S820-306002	-
CN-81	SWP	1	Travel buzzer	S822-014000	S822-114000

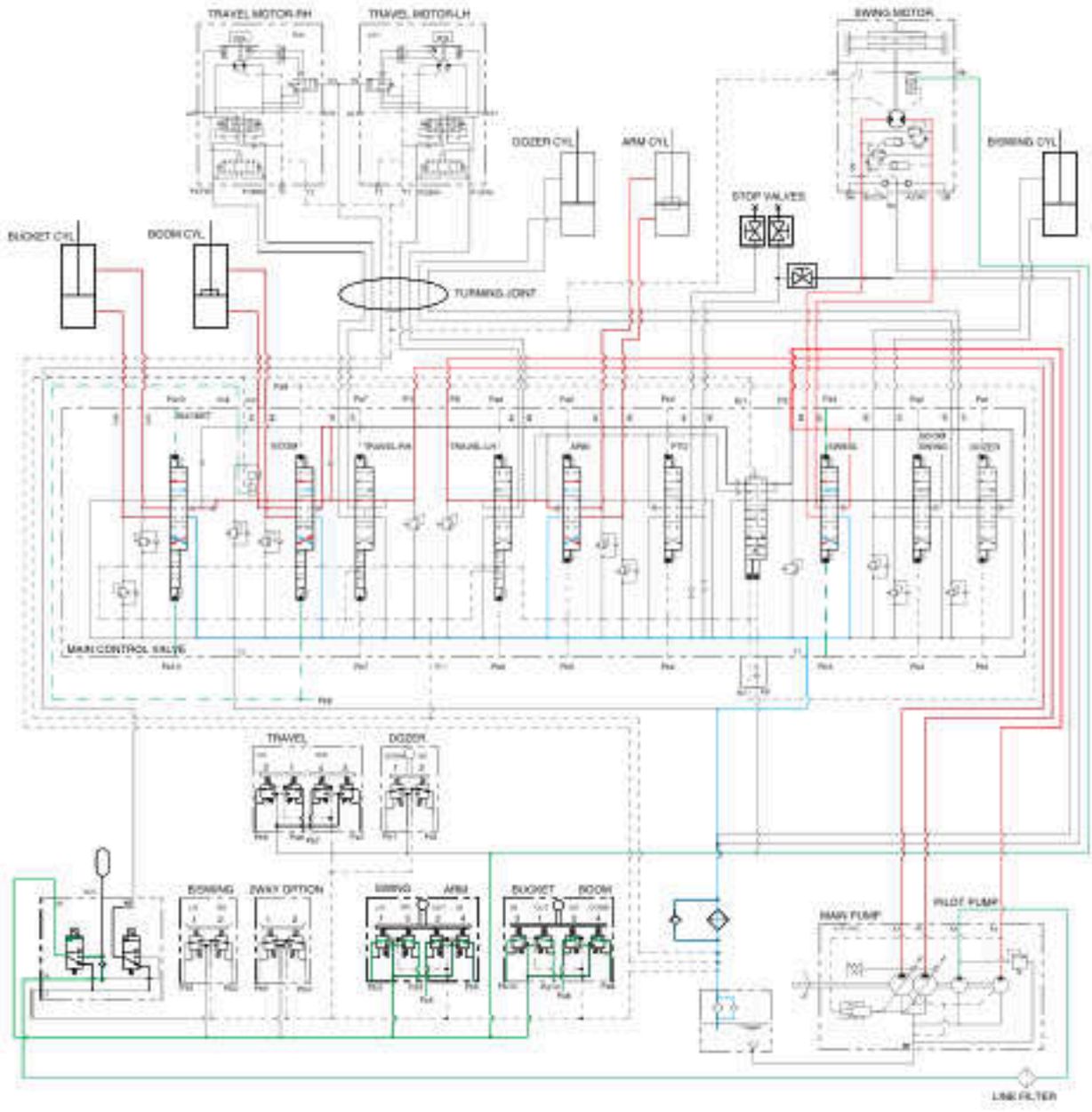
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3) BOOM, ARM OR BUCKET CYLINDER EXTENDS OR CONTRACTS ITSELF AND ATTACHMENT FALLS



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5. COMBINED SWING, BOOM, ARM AND BUCKET OPERATION



When the swing, boom, arm and bucket functions are operated, simultaneously each spool in the main control valve is moved to the functional position by the pilot oil pressure from the remote control valve.

The oil from the P2 pump flows into the arm cylinder through, arm spool.

The oil from the P1 pump flows into the boom cylinders and bucket cylinder through the boom spool, bucket spool.

The oil from the P3 pump flows into the swing motor through the swing spool.

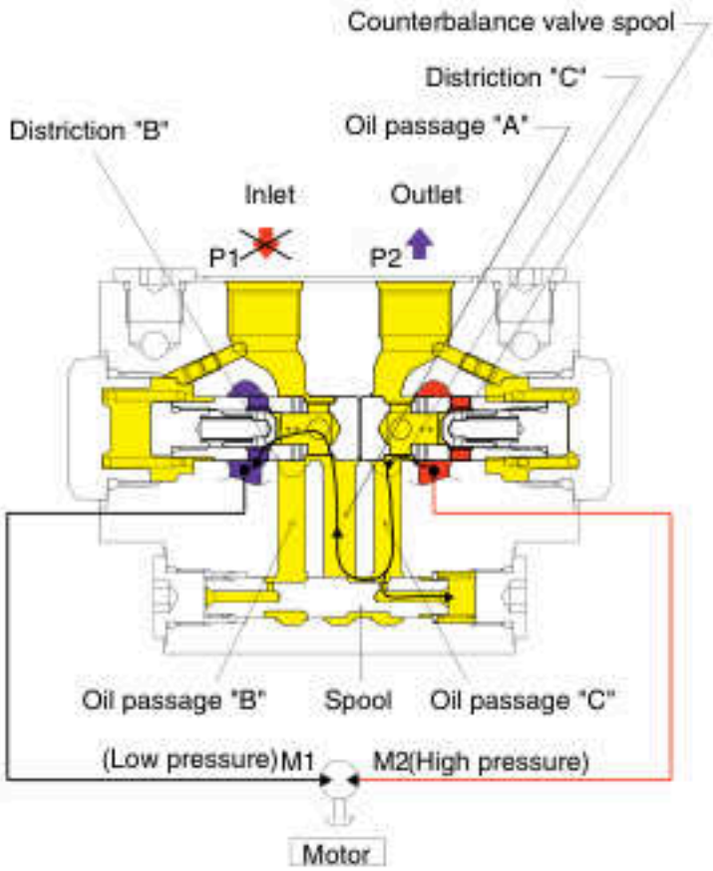
The superstructure swings and the boom, arm and bucket are operated.

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(3) From continuous rotating to deceleration

At deceleration, the motor is still rotated by inertia. The oil flows M2 port to P2 port during counterbalance valve is opened. Then, if the flow to P1 is not enough, the cavitation could be appeared in P1-M1 line.

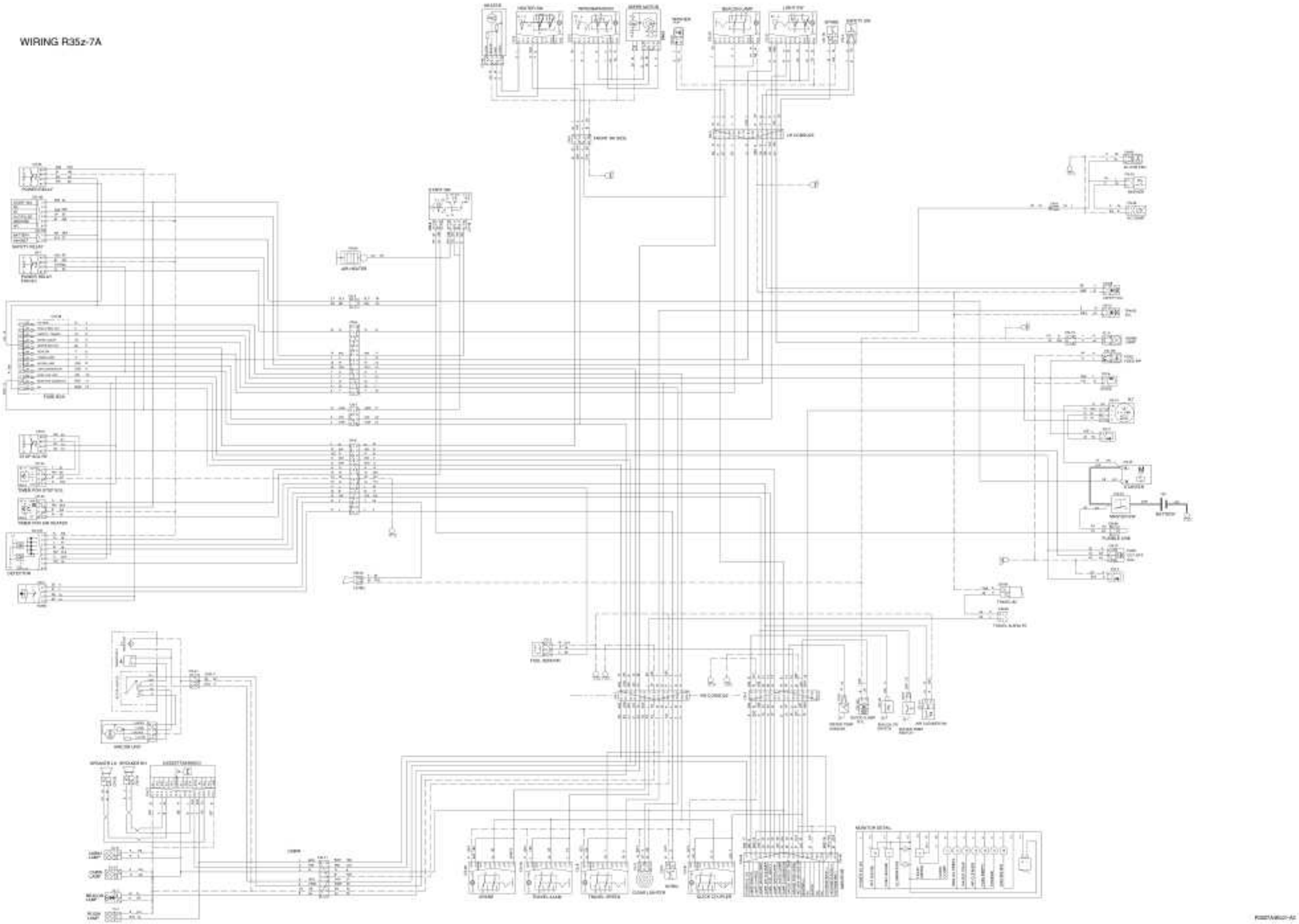
Anti cavitation valve can make a oil passage like M2 → C → spool → A → P1 → M1 and supply flow before counterbalance valve spool is returned. Consequently the cavitation is reduced by the above function.



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WIRING R35z-7A



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