Service Manual

JS130
from machine no. 758000

JS160
from machine no. 702000

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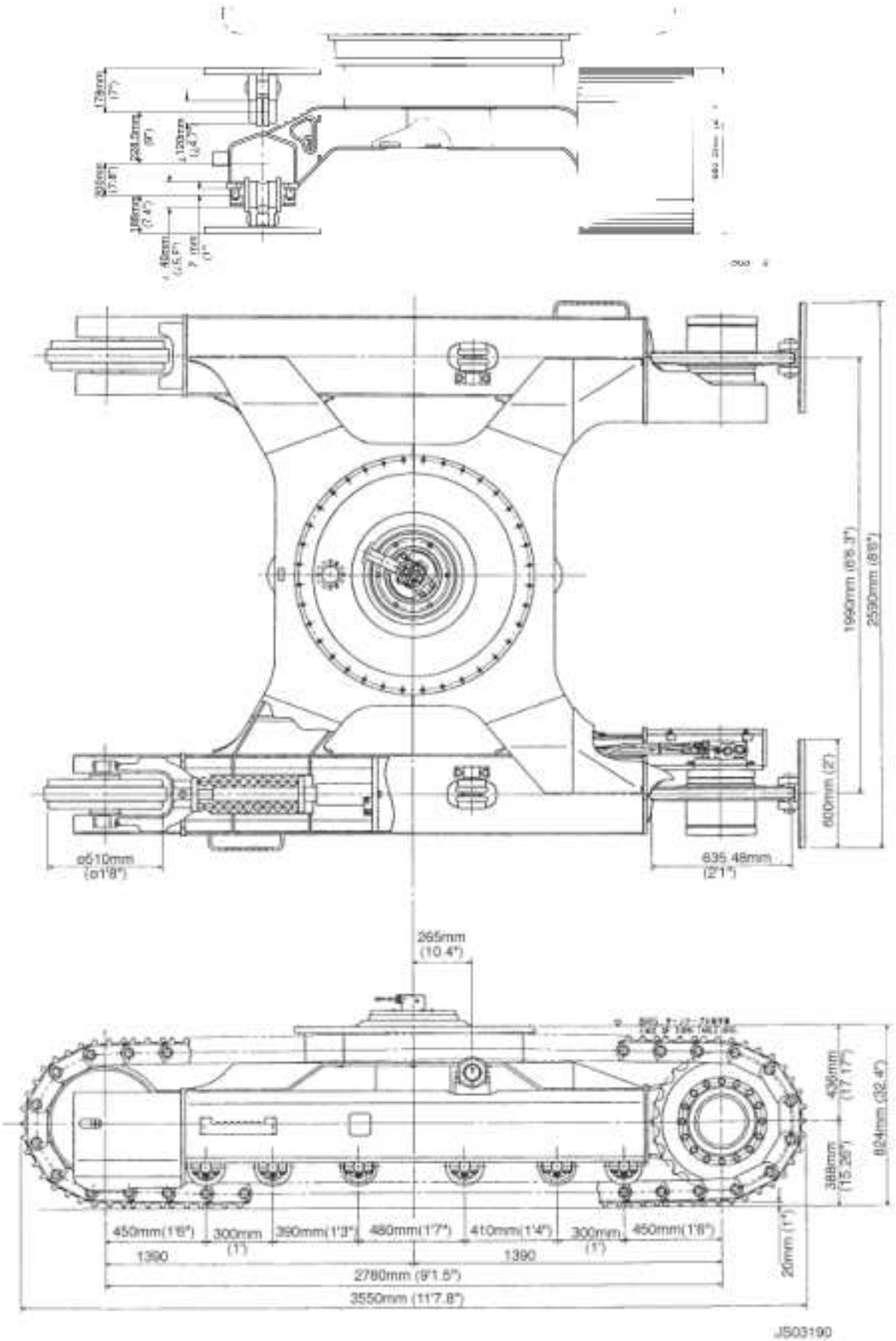
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JS130 - Dimensions



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Schematic, Hydraulic Circuit JS160

1	MOTOR; SLEW
2	RAM; DIPPER
3	VALVE; ASSEMBLY
4	MOTOR; TRACTION
5	ROTARY COUPLING
6	RAM; BUCKET
7	RAM; BOOM (L)
8	RAM; BOOM (R)
9	VALVE; SHUTTLE
10	VALVE; CONTROL
11	VALVE; SOLENOID
12	ORIFICE
13	FILTER; LINE
14	VALVE; CHECK
15	VALVE; CHECK
16	RADIATOR
17	RADIATOR
18	BREATHER; AIR
19	TANK; SUMP
20	FILTER; LINE
21	STRAINER
22	VALVE; RELIEF
23	FILTER; RETURN
24	VALVE; STOP
25	NEPHRON FILTER
26	VALVE; STOP
27	VALVE; CHECK
28	SWITCH; PRESS.
29	VALVE; SOLENOID

30	VALVE; SHUTTLE
31	ACCUMULATOR
32	VALVE; CHECK
33	FILTER; LINE
34	PUMP; HYD
35	VALVE; REMOTE CONT
36	VALVE; REMOTE CONT
37	VALVE; SHUTTLE
38	SWITCH; PRESS
39	VALVE; STOP
40	CUSHION VALVE
41	SWITCH PRESS.
42	VALVE; STOP
43	VALVE; SPL
44	VALVE; RELIEF
45	FILTER; LINE

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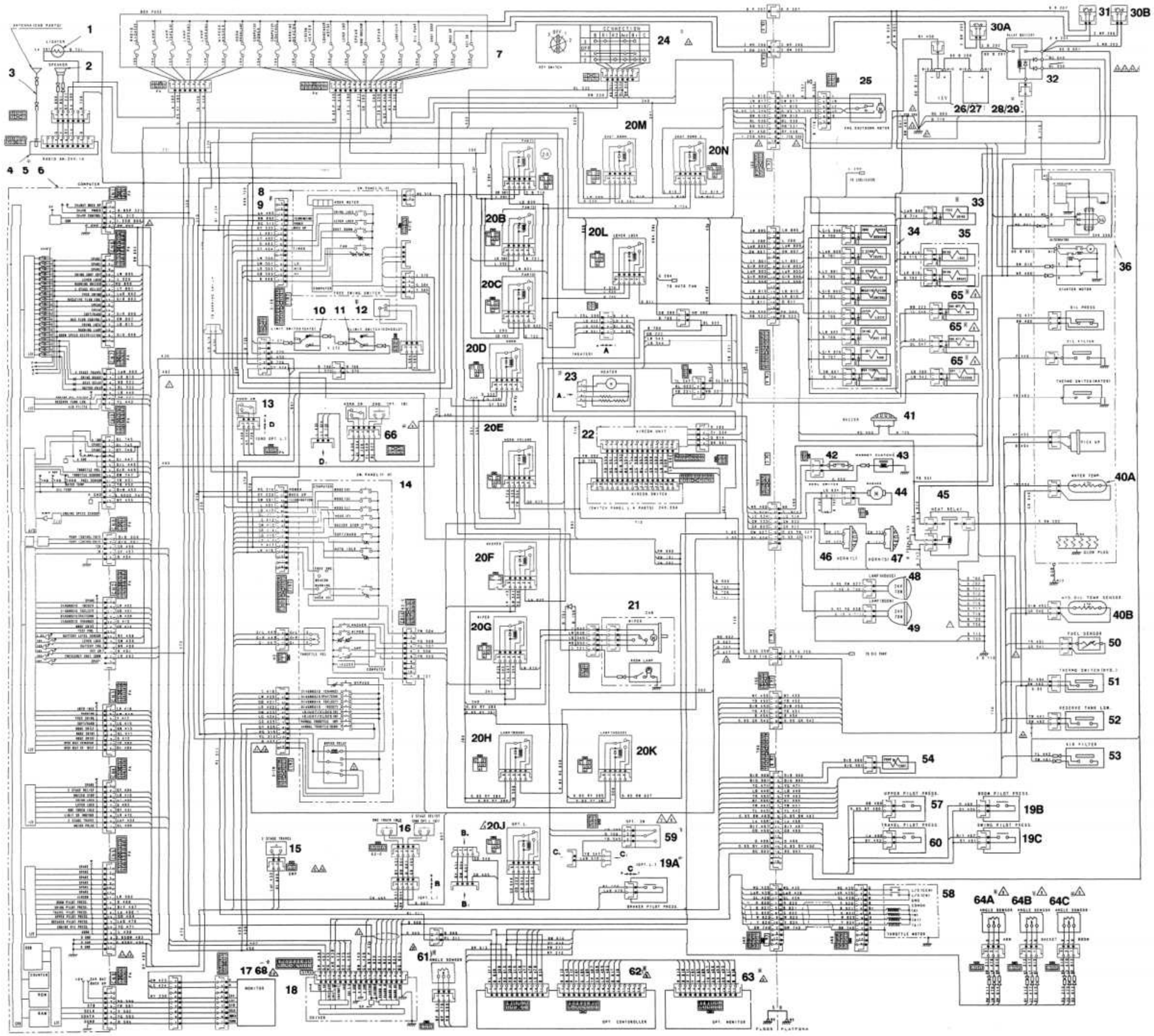
Fault Finding

The chart below lists some possible problems and suggested remedies. The types of problems fall into four main categories as follows:

Item	Symptoms
1	Oil leakage from piston rod sliding part.
2	Oil leakage from cylinder head joint.
3	Oil leakage from pipe and cylinder tube welds.
4	Faulty operation

Item	Symptoms	Related Parts	Trouble	Treatment
other inspect.		Piston rod	On the sliding surface, there are scratches and rust that can be felt by the fingernail.	1 Use an oil stone and remove the scratch and make the sliding surface smooth. If oil leakage continues even though the rod surface is made smooth, the scratch may have damaged the U-ring and seals, so dismantle and 2 If the scratches and rust cover such a wide area that they cannot be repaired by an oil stone, renew the piston rod and U-ring, wiper ring and seals and the piston rod bearing member.
1	Piston rod sliding part oil leakage		The plating is peeling.	Re-plate or renew the piston rod. Also inspect the seal and piston rod bearing member and renew if damaged.
		Rod packing (Buffer ring U-ring)	Foreign matter is biting into the inner and outer surfaces of the packing.	Remove foreign matter. If there is damage to packing, renew it.
			There is a scratch on the inner surface.	Renew.
			The lip and groove parts are locally carbonized (burned).	Possibly due to burning caused by adiabatic compression from air remaining inside the ram. After renewing the packing, first operate the ram at low-pressure, low speed to sufficiently bleed the air.

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