Service Manual

VM 1500

Service Manual - VM 1500

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Section 2 - Care & Safety

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Section B - Body & Framework

Section C - Electrics

Section E - Hydraulics

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Section K - Engine

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Harness Data

Engine and Machine Harness

Table 1. VM 1500 Engine and Machine Harness

No	Colour	From	To
1	Red	Battery G1/+	Plug X1 port 4
3	Black	Engine starter M1 / 50 a	Plug X1 port 3
9	Black / blue	Engine preheater RH 1-3	Plug X1 port 1
10	White	Fuel solenoid Y 1 / z	Plug X1 port 3
11	Red	Engine starter M1 / 30	Alternator G2 / 30
12	Black / red	Alternator G2 / 1G	Plug X1 port 6
16	Blue	Alternator G2 / L	Plug X1 port 5
17	Black	Fuel solenoid Y1 / h	Safety bar switch S2
18	Green	Engine oil pressure switch S3	Plug X1 port 8
19	Brown	Brake solenoid Y2 / 2	Plug X1 port 2
20	Black / yellow	Brake solenoid Y2 / 1	Safety bar switch S2
21	Black	Safety bar switch S2	Plug X1 port 7
23	Red / white	Engine temperature switch S4	Plug X1 port 9
30	Brown	Ground terminal	Plug X1 port 2
31	Black / red	Electric fuel pump M2	Plug X1 port 10
37	Blue / yellow	High speed solenoid Y7 / 1	Plug X2A port 1
38	Brown	High speed solenoid Y7 / 2	Ground terminal
40	Gray / red	Reverse travel vibration solenoid Y8 / 1	Plug X2 port 2
41	Brown	Reverse travel vibration solenoid Y8 / 2	Ground terminal
43	Grey / white	Forward travel vibration solenoid Y9 / 1	Plug X2A port 3
44	Brown	Forward travel vibration solenoid Y9 / 2	Ground terminal
48	Grey	Vibration on / off solenoid Y10 / 1	Plug X2A port 4
49	Brown	Vibration on / off solenoid Y10 / 2	Ground terminal

⇨ *Fig 1. (C-24)*

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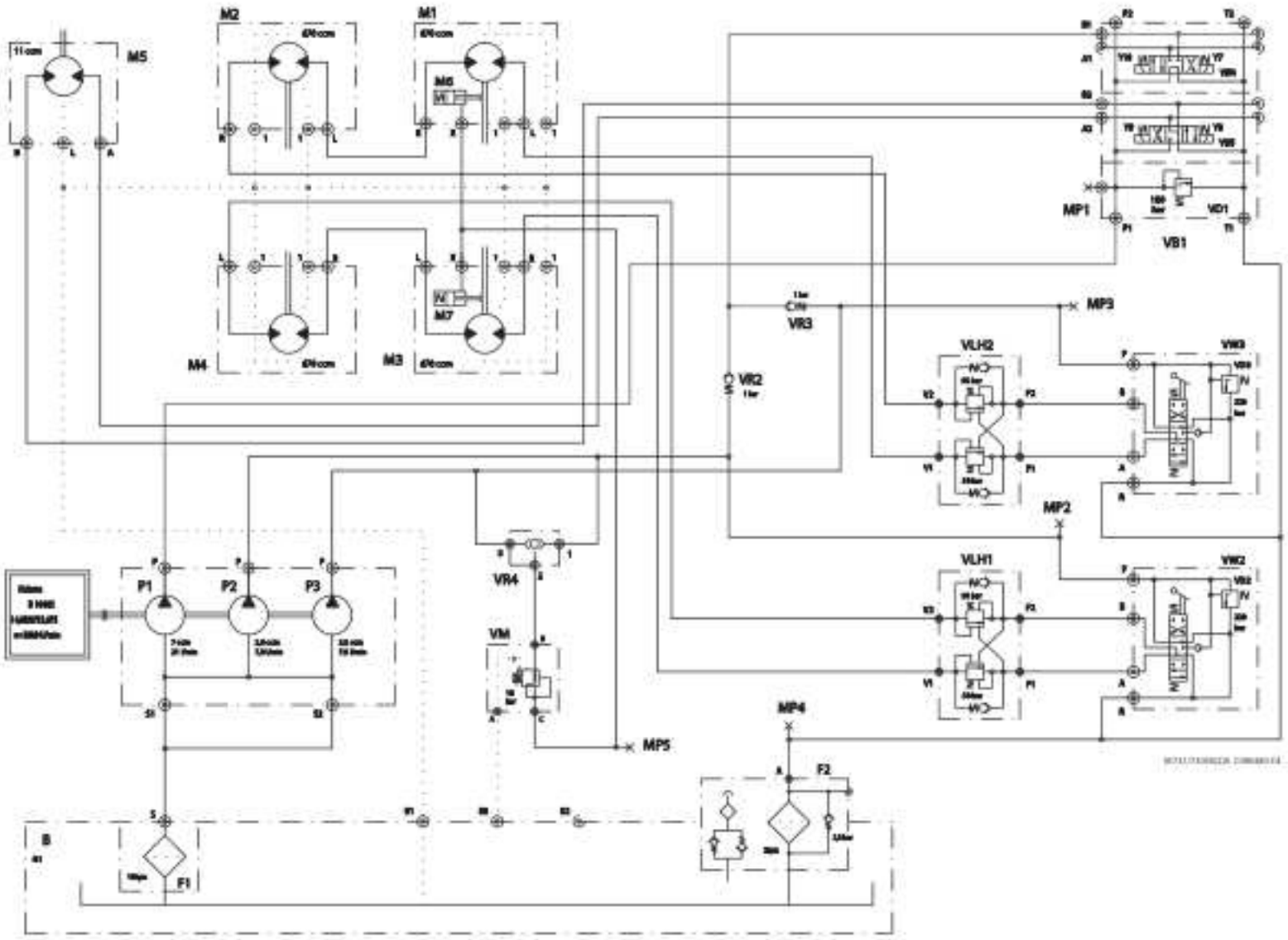


Fig 9. VM 1500 (Manual) High Speed Travel Function

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Hydraulic System

The purpose of this section is to help you trace a particular fault. The tables identify possible causes and give a suggested action with specific tests where applicable.

1 Before you begin fault finding, read the fault finding safety information at the beginning of this section. Make sure you also read ***Section 2, Care and Safety.***

2 Make any relevant electrical checks before moving on to the hydraulics.

3 Make simple checks before say, stripping a major hydraulic component.

4 Make sure that the hydraulic fluid is at the correct working temperature (50°C, 122°F).

5 If hydraulic contamination is found, be sure to remove ALL debris, and if possible identify its origin. It may be part of a component from elsewhere in the hydraulic circuit.

6 What ever the fault, check the condition of the hydraulic fluid. Drain and replace if necessary.

7 Renew any seals such as O-rings when re-assembling hydraulic components.

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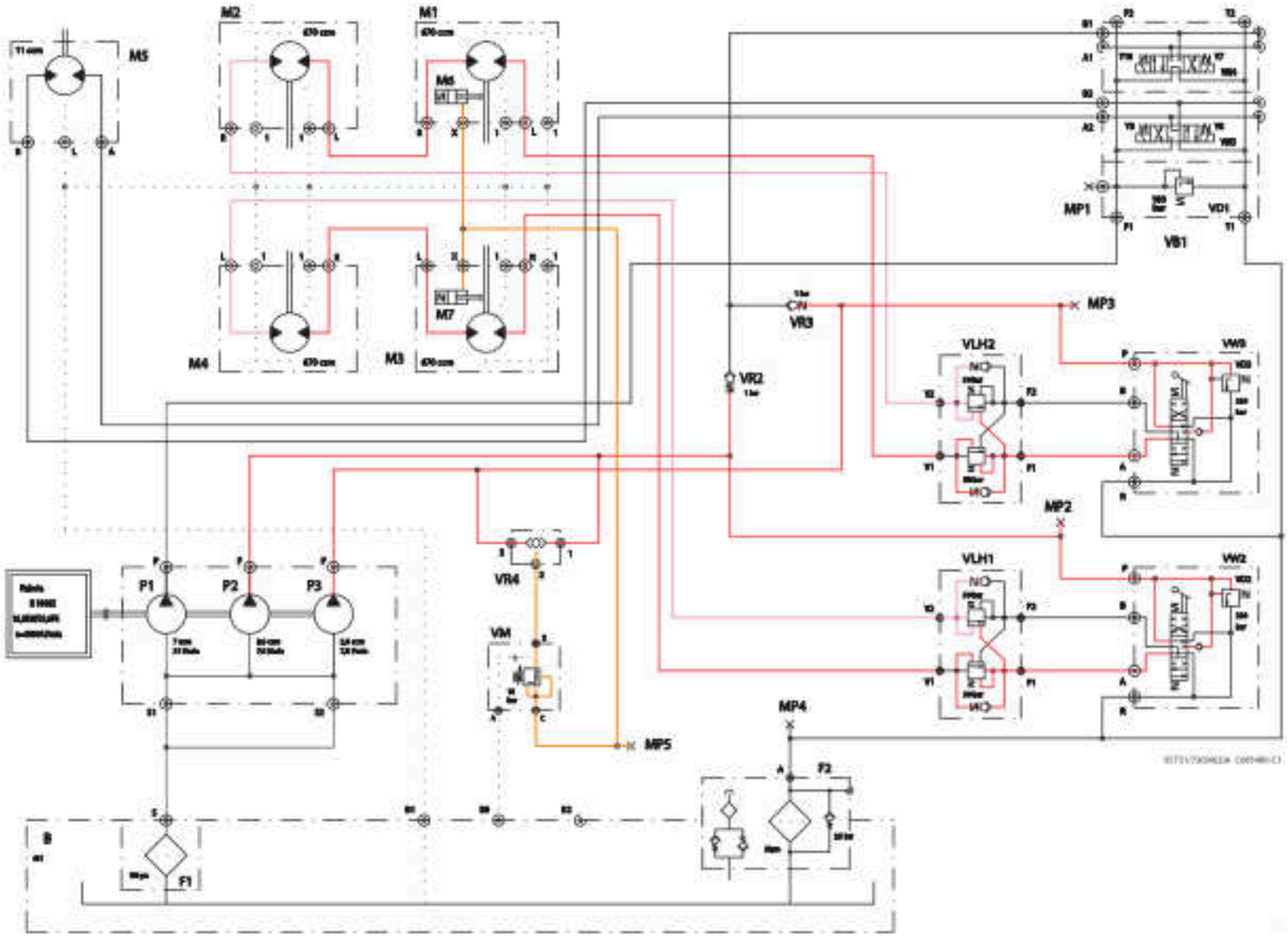


Fig 3. VM1500 M (Manual) Propulsion and Brake System Schematic

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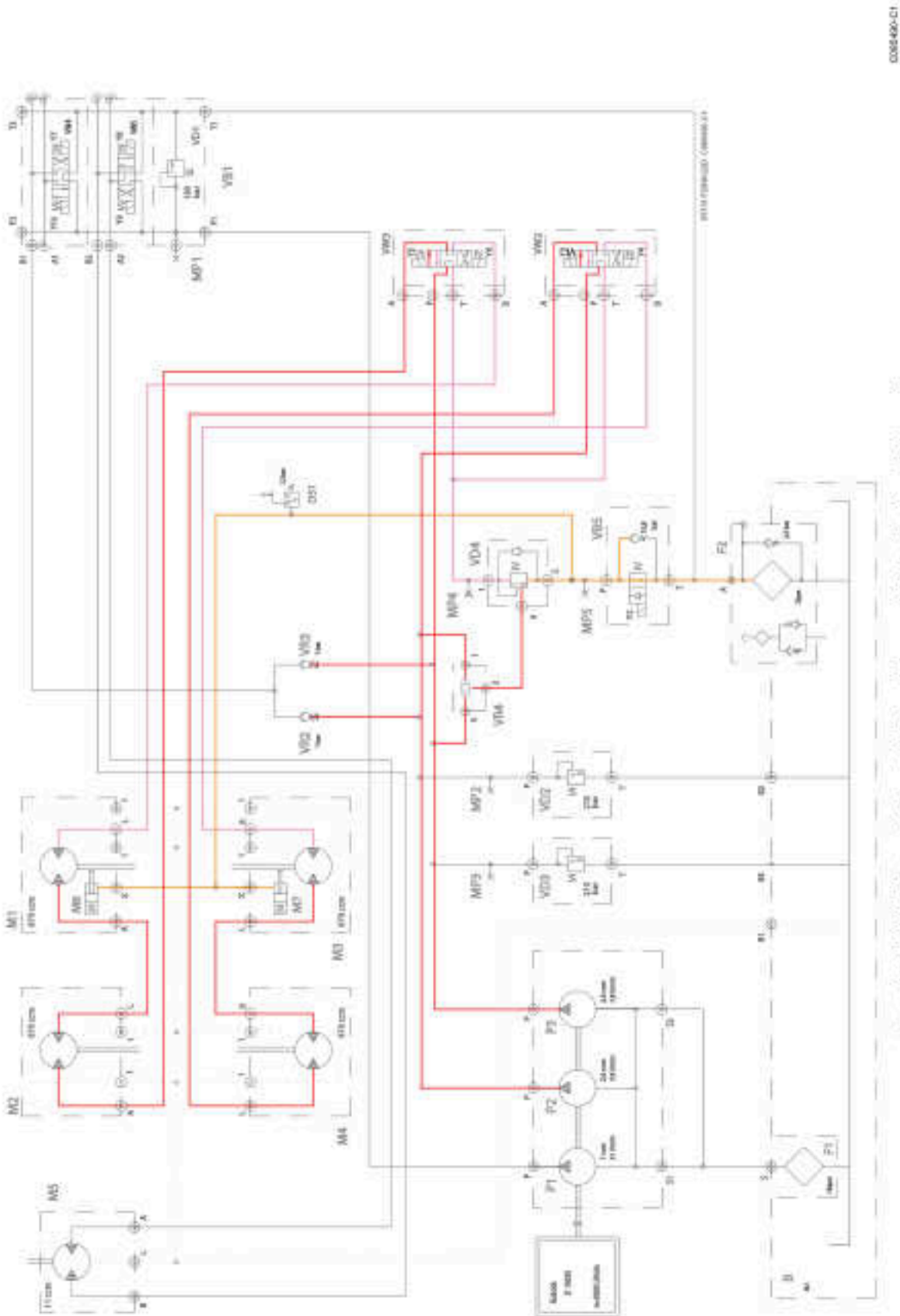


Fig 3. VM 1500 F (Remote Control) Propulsion and Brake System Schematic

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