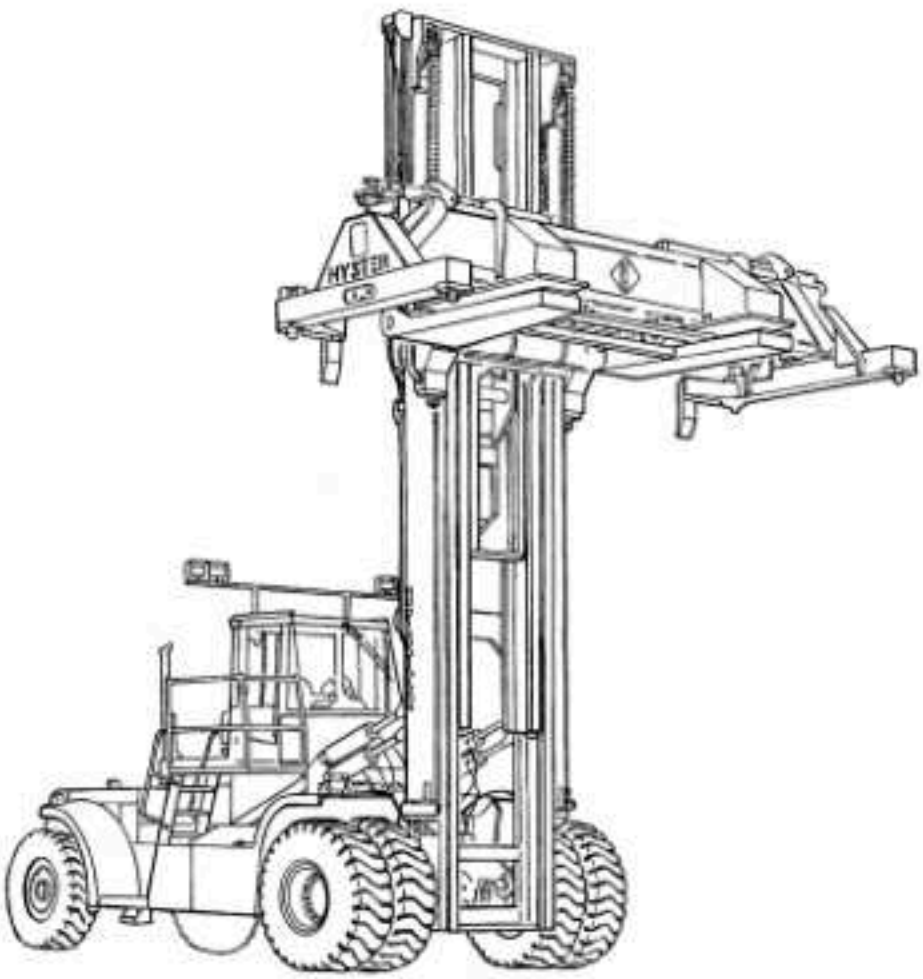
SERVICE MANUAL

H800-970E, H1050EH (D117)



FORM 1453783 Rev. 12/03

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H800-970E, H1050EH (D117)
SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
FRAME	0100 SRM 0692	12/02
COOLING SYSTEM	0700 SRM 0626	11/01
FOUR-SPEED PS TRANSMISSION - DESCR / OPER	1300 SRM 0634	11/03
FOUR-SPEED PS TRANSMISSION - REPAIR	1300 SRM 0635	11/03
DIFFERENTIAL	1400 SRM 0046	11/03
PLANETARY GEAR AXLE	1400 SRM 0047	11/03
STEERING AXLE	1600 SRM 0071	07/97
STEERING SYSTEM	1600 SRM 0429	04/97
OIL COOLED BRAKES	1800 SRM 0678	09/03
DISC BRAKES	1800 SRM 0683	08/02
ACCUMULATOR	1800 SRM 1036	09/02
PARKING BRAKE	1800 SRM 1037	02/03
SERVICE BRAKES (Later Units)	1800 SRM 1038	11/03
AUXILARY BRAKE CALIPER	1800 SRM 1040	04/03
HYDRAULIC GEAR PUMPS	1900 SRM 0097	10/03
HYDRAULIC SYSTEM	1900 SRM 0682	07/97
HYDRAULIC PLATE (See SRM for S/N break)	1900 SRM 1012	09/03
HYDRAULIC SYSTEM (See SRM for S/N break)	1900 SRM 1013	12/02
TILT CYLINDERS	2100 SRM 0103	10/03
INSTRUMENT PANEL INDICATORS and SENDERS	2200 SRM 0143	12/03
ELECTRICAL SYSTEM	2200 SRM 0679	11/03
MAST	4000 SRM 0432	03/97
EXTENDABLE CONTAINER ATTACHMENT	5000 SRM 0265	11/97
FIXED CONTAINER ATTACHMENT	5000 SRM 0266	11/97
EXTENDABLE CONTAINER ATTACHMENT (ELME)	5000 SRM 0723	11/99
INCH (SAE) and METRIC FASTENERS	8000 SRM 0231	03/03
DIAGRAMS	8000 SRM 0676	08/02
PERIODIC MAINTENANCE	8000 SRM 0677	10/03
CAPACITIES and SPECIFICATIONS	8000 SRM 0680	12/02
ASSEMBLY GUIDE	8000 SRM 1041	07/02

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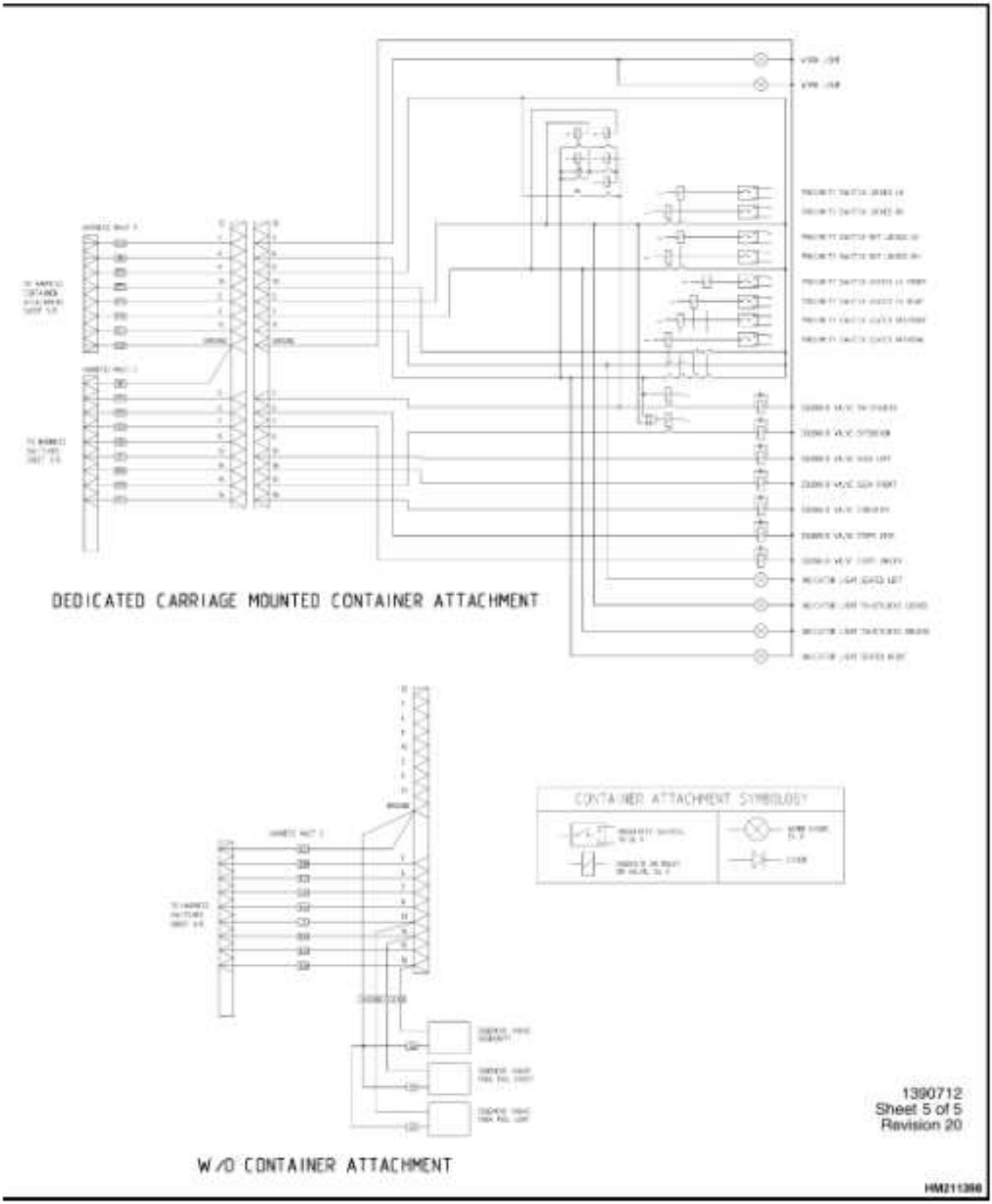


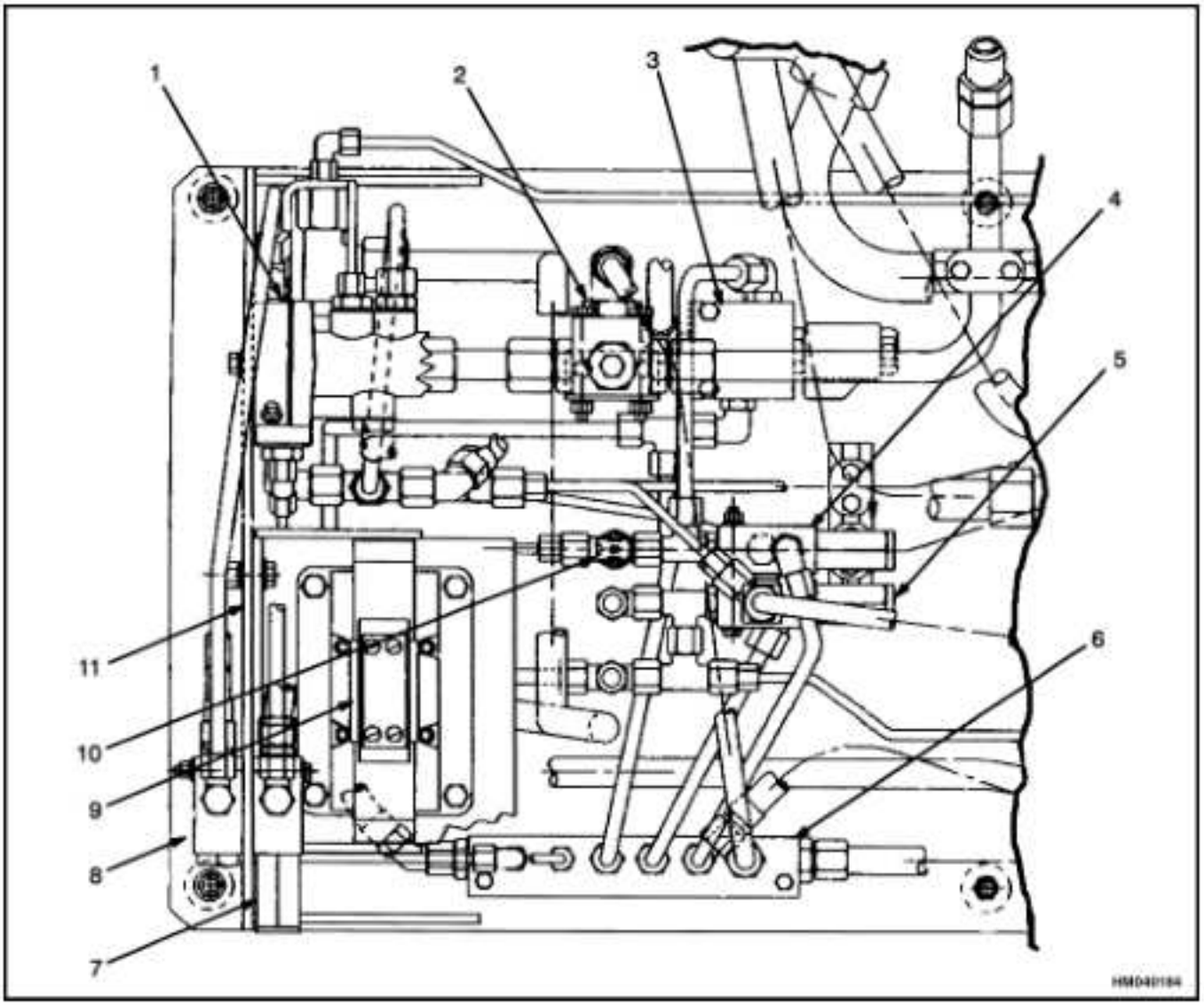
Figure 3. Wiring Diagram (Sheet 5 of 5)

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Troubleshooting

PROBLEM	POSSIBLE CAUSE	PROCEDURE OR ACTION
The brakes do not stop the lift truck.	The linings are worn or damaged.	Replace linings.
	There is not enough hydraulic pressure in the system.	Check and adjust hydraulic pressure.
	The brake lines have a restriction.	Replace lines.
	The accumulator charge valve or accumulator is damaged.	Repair or replace accumulator charge valve.
	The relief valve is not adjusted correctly.	Adjust relief valve.
	The brake pedal valve(s) is damaged.	Replace brake pedal valve(s).
	The relay valve does not operate correctly.	Repair or replace relief valve.
	The auxiliary caliper or piston area of service brakes have a leak.	Repair or replace the auxiliary caliper.
	The shuttle valve does not operate correctly.	Repair or replace shuttle valve.
The brakes apply slowly.	Oil, water, or hydraulic oil is on the auxiliary brake linings.	Clean or replace brake linings.
	There is not enough hydraulic pressure in the system.	Check and adjust hydraulic pressure.
	The hydraulic line(s) have a leak or restriction.	Replace lines.
	The brake pedal valve(s) is damaged.	Replace brake pedal valve.
Brake pedal(s) goes to the floor.	There is air in the hydraulic system.	Remove air from hydraulic system.
	There is a leak(s) in a hydraulic line.	Replace line.
The service brakes do not operate equally.	The linings are worn or damaged.	Replace linings.
	The brake line(s) have a restriction.	Replace line(s).
	The brake rotor(s) is damaged or not smooth.	Repair or replace brake rotor(s).

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1. RELAY VALVE 4.5 MPa (650 psi)
2. RELIEF VALVE 22 MPa (3200 psi)
3. SOLENOID VALVE FOR PARKING BRAKE
4. RELIEF VALVE 10.3 MPa (1500 psi)
5. RELIEF VALVE 2.1 MPa (300 psi)
6. MANIFOLD
7. SEQUENCE VALVE
8. SHUTTLE VALVE
9. ATTACHMENT CONTROL VALVE
10. SWITCH FOR LOW PRESSURE WARNING
11. HYDRAULIC SUB PANEL

Figure 2. Brake System Components on Hydraulic Panel

The relay valve controls the oil from the accumulator circuit to operate the caliper pistons of the auxiliary service brakes. The relay valve also limits the pressure applied to the auxiliary caliper.

When the right-hand (service brake) pedal is depressed, hydraulic oil flows through the pedal valve to the shuttle valve. From the shuttle valve, oil flows to the sequence valve and to the relay valve. The sequence valve operates at 758 kPa (110 psi). The auxiliary brake caliper (relay valve) operates at 4.6 MPa (650 psi) to apply oil from the accumulator circuit to the auxiliary caliper. The relay valve limits the oil pressure to the auxiliary caliper to approximately one-third of the oil pressure in the brake system. The auxiliary caliper is installed on the differential housing with its brake rotor on the pinion shaft. The other small [48.18 cm^3 (2.94 $in.^3$)] tandem pump circulates the oil of the hydraulic tank for cooling. The thermostatic bypass valve controls the flow of oil from the pump through the air-to-oil

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