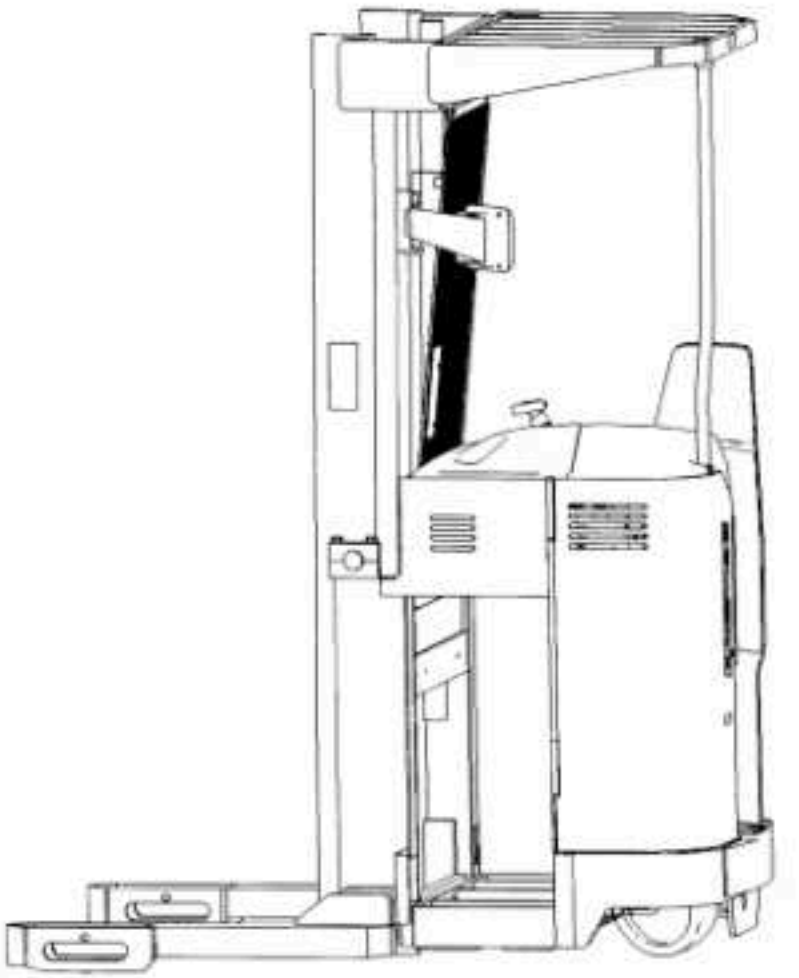
SERVICE MANUAL

N30XMXDR3, N45XMXR3 (B264)



FORM 1496152 Rev. 01/04

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N30XMXDR3, N45XMXR3 (B264)
SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
FRAME	0100 SRM 0975	08/01
DC MOTOR MAINTENANCE	0620 SRM 0294	08/03
MASTER DRIVE UNIT	0630 SRM 1022	09/03
STEERING MECHANISM	1600 SRM 0974	07/02
BRAKE SYSTEM	1800 SRM 0983	08/01
HYDRAULIC SYSTEM	1900 SRM 0973	02/03
INSTRUMENT CLUSTER	2200 SRM 0514	01/04
SEM TRACTION MOTOR CONTROLLER	2200 SRM 0977	01/04
ELECTRICAL SYSTEM	2200 SRM 0978	01/04
INDUSTRIAL BATTERY	2240 SRM 0001	11/03
BATTERY INDICATORS	2260 SRM 0138	06/02
MAST-DESCRIPTION	4000 SRM 0480	04/03
LIFT CYLINDERS	4000 SRM 0481	04/03
MAST-REPAIR	4000 SRM 0482	04/03
REACH CARRIAGES	4500 SRM 0971	04/03
INCH (SAE) AND METRIC FASTENERS	8000 SRM 0231	03/03
PERIODIC MAINTENANCE	8000 SRM 0970	09/03
CAPACITIES AND SPECIFICATIONS	8000 SRM 0972	07/02
DIAGRAMS	8000 SRM0982	07/02

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Table 2. Operating Times N30XMXDR3, N45XMXR3, N30/40XMR2, N25XMDR2, N30XMDR2, and N45XMR2 (Continued)

Volt-age	Action			Time	
	Relief		24 V	16,547.4 kPa (2400 psi)	175 Amps
			36 V	16,547.4 kPa (2400 psi)	112 Amps
	Reach	No Load	24 V	7584 kPa (1100 psi)	90 Amps
		Capacity Load	24 V	7584 kPa (1100 psi)	90 Amps
		No Load	36 V	7584 kPa (1100 psi)	60 Amps
		Capacity Load	36 V	7584 kPa (1100 psi)	60 Amps
	Retract	No Load	24 V	11,721 kPa (1700 psi)	127.5 Amps
		Capacity Load	24 V	11,721 kPa (1700 psi)	142.5 Amps
		No Load	36 V	11,721 kPa (1700 psi)	85 Amps
		Capacity Load	36 V	11,032 kPa (1600 psi)	95 Amps
	Tilt Forward	No Load	24 V	9191 kPa (1333 psi)	97.5 Amps
		Capacity Load	24 V	5688 kPa (825 psi)	81 Amps
		No Load	36 V	9191 kPa (1333 psi)	65 Amps
		Capacity Load	36 V	5688 kPa (825 psi)	54 Amps
	Tilt Backward	No Load	24 V	3916 kPa (568 psi)	73.5 Amps
		Capacity Load	24 V	14,527 kPa (2107 psi)	175.5 Amps
		No Load	36 V	3916 kPa (568 psi)	49 Amps
		Capacity Load	36 V	14,527 kPa (2107 psi)	117 Amps

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Schematics

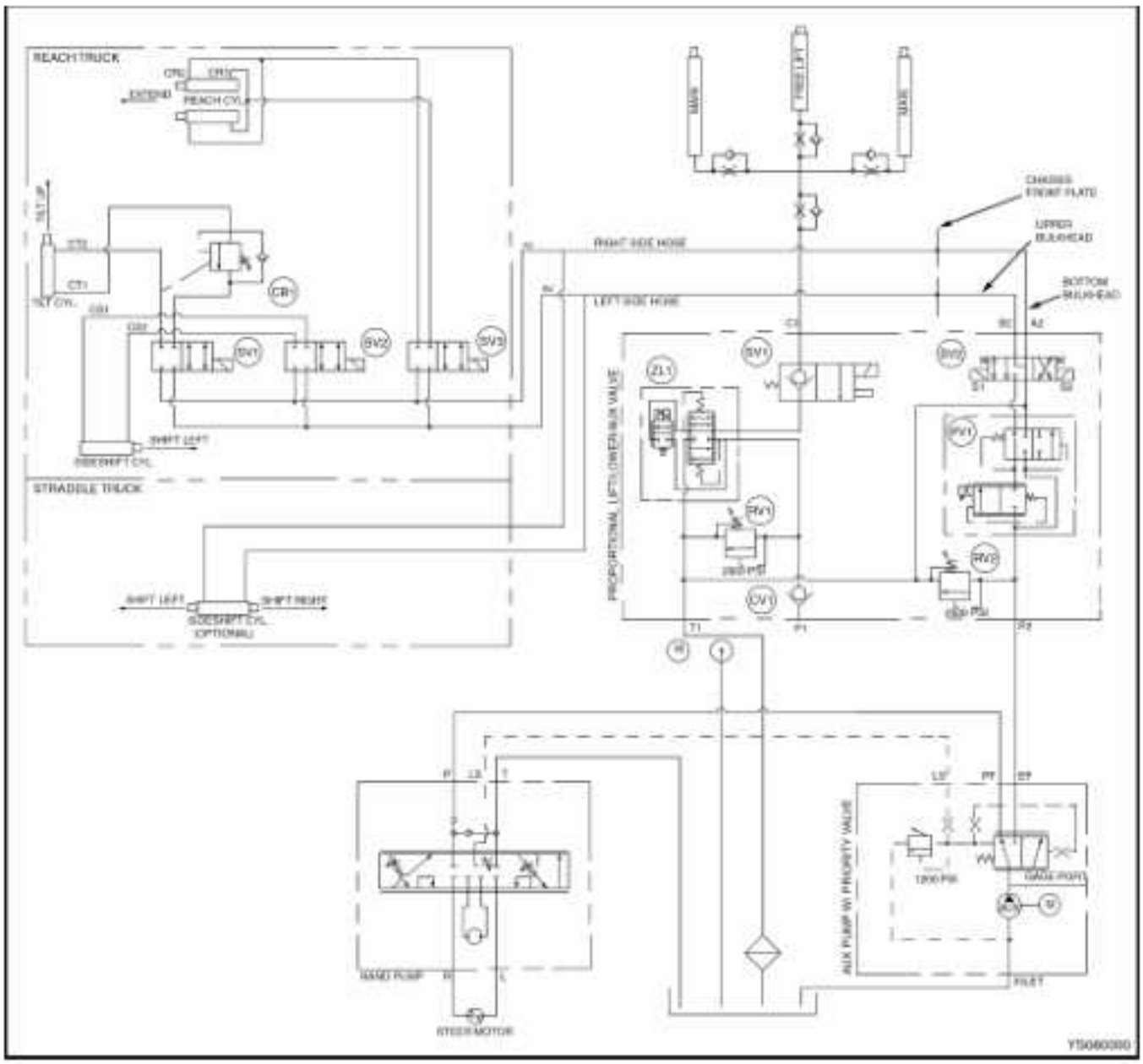


Figure 9. Hydraulic Schematic (Trucks built before 15 July, 2002)

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Fault Codes

MIB Code	Dash Display Message	Priority Level	Code Type	Signal Source
XX41	EXTEND COIL OPEN	18	FAULT	MIB

Condition
Low current with coil on.

Truck Response
Power on testing is delayed until the brake is cycled.

Possible Causes and Test Procedures
- Coil is open or wire is disconnected.

Refer to the Wiring Schematics

Logic

MIB Code	Dash Display Message	Priority Level	Code Type	Signal Source
XX43	SS COIL OPEN	17	FAULT	MIB

Condition
Low current with coil on.

Truck Response
Power on testing is delayed until the brake is cycled.

Possible Causes and Test Procedures
- Coil is open or wire is disconnected.

Refer to the Wiring Schematics

Logic

MIB Code	Dash Display Message	Priority Level	Code Type	Signal Source
XX44	AUX OUT SHORT	16	FAULT	MIB

Condition
Auxiliary out coil current too high.

Truck Response
Auxiliary functions disabled until brake is cycled.

Possible Causes and Test Procedures
- Aux in or aux out coil is shorted; faulty wiring.

Refer to the Wiring Schematics

Logic
Auxiliary out coil current is greater than 1.5 amperes.

MIB Code	Dash Display Message	Priority Level	Code Type	Signal Source
XX45	AUX OUT OPEN	16	FAULT	MIB

Condition
Low current with coil on.

Truck Response
Power on testing is delayed until the brake is cycled.

Possible Causes and Test Procedures
- Coil is open or wire is disconnected.

Refer to the Wiring Schematics

Logic

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