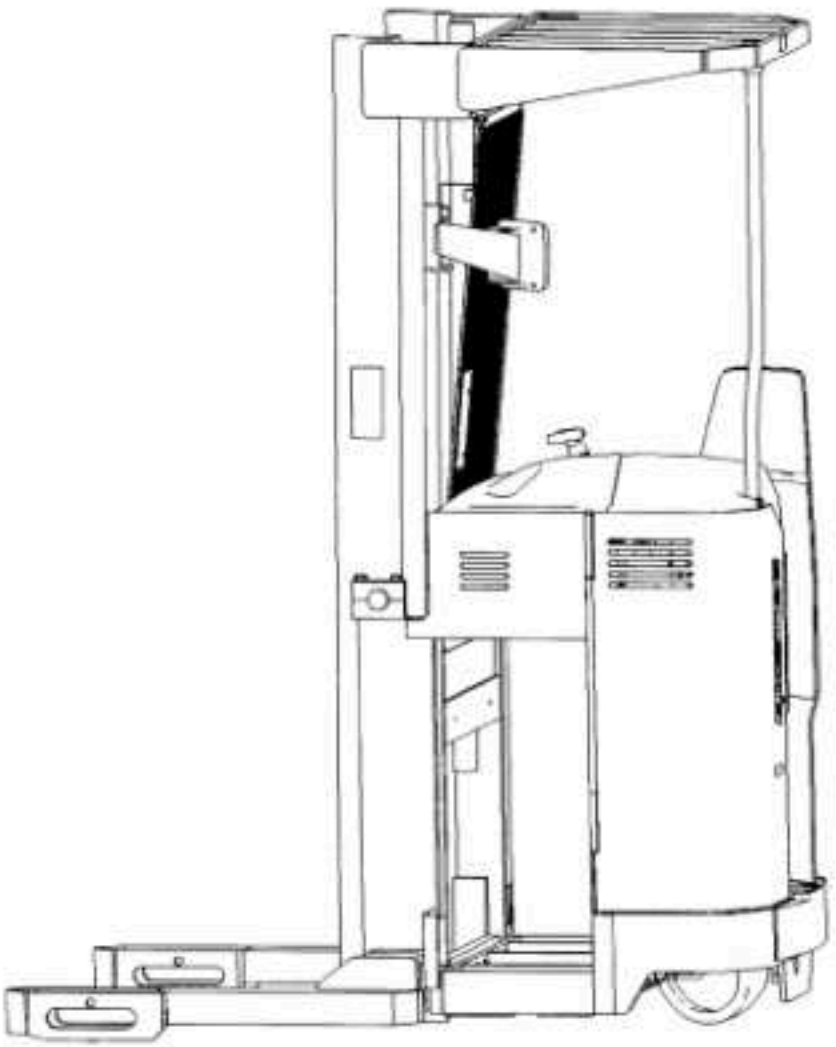
SERVICE MANUAL

N25XMDR3, N30,40XMR3 (C470)



FORM 1496168 Rev. 01/04

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N25XMDR3, N30,40XMR3 (C470)
SERVICE MANUAL CONTENTS

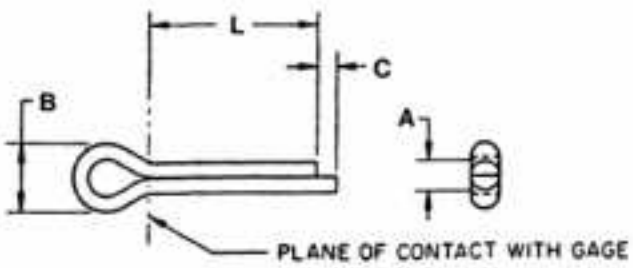
Section	SRM Number	Rev Date
FRAME	0100 SRM 0975	08/01
DC MOTOR MAINTENANCE	0620 SRM 0294	08/03
MASTER DRIVE UNIT	0630 SRM 1022	09/03
STEERING MECHANISM	1600 SRM 0974	07/02
BRAKE SYSTEM	1800 SRM 0976	05/01
HYDRAULIC SYSTEM	1900 SRM 0973	02/03
INSTRUMENT CLUSTER	2200 SRM 0514	01/04
SEM TRACTION MOTOR CONTROLLER	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 SRM 0980	07/02

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Table 8. Cotter Pin Dimensional Data

Nominal Size	Shank Diameter A		Head Dia. B	Length of Extended Prong C		Recommended Hole Size	
	max	min	min	max	min	min	max
1.00 mm (0.031 in.)	0.90 mm (0.035 in.)	0.70 mm (0.028 in.)	1.50 mm (0.060 in.)	1.52 mm (0.060 in.)	0.25 mm (0.01 in.)	0.91 mm (0.036 in.)	1.37 mm (0.054 in.)
1.60 mm (0.047 in.)	1.20 mm (0.048 in.)	0.90 mm (0.035 in.)	1.50 mm (0.060 in.)	2.54 mm (0.10 in.)	0.51 mm (0.02 in.)	1.50 mm (0.059 in.)	1.78 mm (0.070 in.)
2.00 mm (0.062 in.)	1.50 mm (0.060 in.)	1.30 mm (0.051 in.)	2.40 mm (0.094 in.)	2.54 mm (0.10 in.)	0.76 mm (0.03 in.)	1.90 mm (0.075 in.)	2.18 mm (0.086 in.)
2.50 mm (0.094 in.)	2.30 mm (0.091 in.)	2.10 mm (0.083 in.)	4.00 mm (0.158 in.)	2.54 mm (0.10 in.)	1.00 mm (0.04 in.)	2.41 mm (0.095 in.)	2.95 mm (0.116 in.)
3.20 mm (0.125 in.)	3.00 mm (0.120 in.)	2.70 mm (0.106 in.)	5.10 mm (0.201 in.)	3.30 mm (0.13 in.)	1.52 mm (0.06 in.)	3.12 mm (0.123 in.)	3.76 mm (0.148 in.)
4.00 mm (0.156 in.)	3.80 mm (0.150 in.)	3.50 mm (0.138 in.)	6.50 mm (0.256 in.)	4.06 mm (0.16 in.)	1.78 mm (0.07 in.)	3.94 mm (0.155 in.)	4.55 mm (0.179 in.)
5.00 mm (0.188 in.)	4.60 mm (0.181 in.)	4.40 mm (0.172 in.)	8.00 mm (0.315 in.)	4.06 mm (0.16 in.)	2.03 mm (0.08 in.)	4.93 mm (0.194 in.)	5.33 mm (0.210 in.)
6.30 mm (0.250 in.)	5.90 mm (0.232 in.)	5.60 mm (0.220 in.)	10.3 mm (0.406 in.)	4.06 mm (0.16 in.)	2.03 mm (0.08 in.)	6.22 mm (0.245 in.)	6.96 mm (0.274 in.)
8.00 mm (0.312 in.)	7.50 mm (0.295 in.)	7.00 mm (0.275 in.)	13.1 mm (0.516 in.)	4.06 mm (0.16 in.)	2.03 mm (0.08 in.)	7.85 mm (0.309 in.)	8.28 mm (0.326 in.)
9.50 mm (0.375 in.)	9.50 mm (0.374 in.)	8.40 mm (0.329 in.)	16.6 mm (0.654 in.)	6.35 mm (0.25 in.)	4.06 mm (0.16 in.)	9.45 mm (0.372 in.)	9.73 mm (0.383 in.)
13.0 mm (0.500 in.)	12.4 mm (0.488 in.)	11.9 mm (0.467 in.)	21.7 mm (0.854 in.)	6.35 mm (0.25 in.)	3.05 mm (0.12 in.)	12.62 mm (0.497 in.)	13.21 mm (0.520 in.)
16.0 mm (0.625 in.)	15.4 mm (0.606 in.)	15.0 mm (0.590 in.)	27.0 mm (1.063 in.)	8.89 mm (0.35 in.)	3.05 mm (0.12 in.)	15.80 mm (0.622 in.)	16.28 mm (0.641 in.)



EXTENDED PRONG

HM211587

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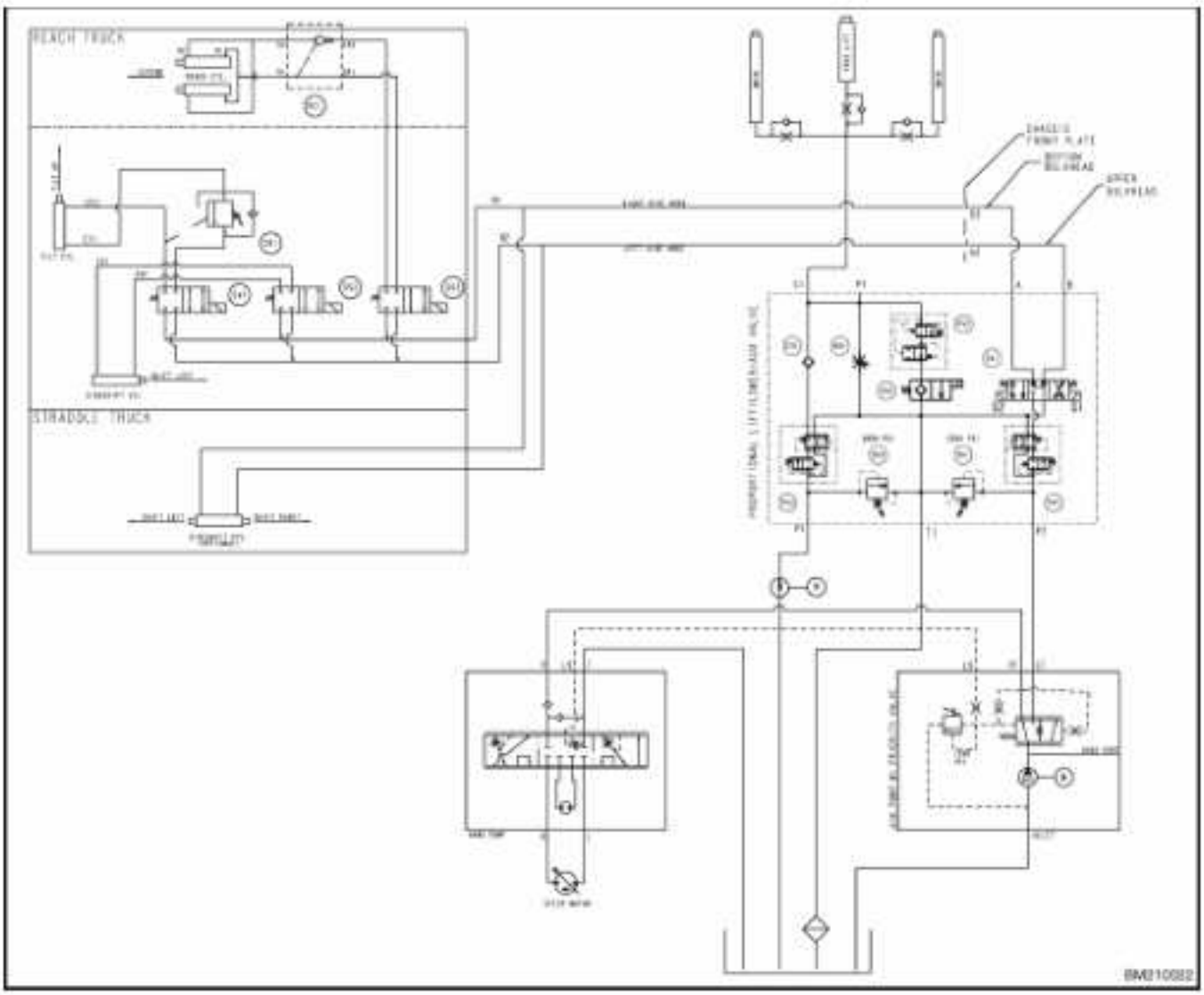


Figure 10. Hydraulic Schematic (Trucks built after 15 July, 2002)

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Table 19. NXMXDR3, NXMXR3 (B264) (Continued)

Function	N45XMXR3 B264 36V default <332	N45XMXR3 B264 36V default >332	N30XMXDR3 B264 36V default <332	N30XMXDR3 B264 36V default >332
Auxiliary:				
Slow reach	103	103	103	103
Fast reach	160	160	115	115
Slow retract	85	85	85	85
Fast retract	130	130	100	100
Tilt down	95	95	95	95
Tilt up	120	120	120	120
Sideshift left and right	95	95	95	95

MIB Status, Warning, and Fault Codes

GENERAL

During normal operation, the left two digits show the STATUS code of the truck and the right two digits show 00. Whenever a truck function is selected, the left two digits are updated to display the selected function.

The two digits on the right side of the display are used to display either a WARNING code or a FAULT code. If neither a WARNING code nor a FAULT code is present, the right two digits continue to display 00. If multiple faults are present, the highest priority FAULT code is displayed. After the highest priority fault is repaired, the next highest priority FAULT code will be displayed.

If a WARNING code and a FAULT code are received at the same time, the left two digits will display the WARNING code, the right two digits will display the FAULT code, and the STATUS code will not be displayed. Always troubleshoot the code shown on the right side of the display first.

Codes are displayed as follows:

- STATUS codes → numbers 01 to 16.
- WARNING codes → numbers 34 to 38.
- FAULT codes → numbers 40 to 85.

NOTE: Not all codes are used on all models.

For example, if an operator tries to use the sideshift and there is an open sideshift solenoid on the mast, the red fault icon on the dash will light and CHECK FAULT CODE, NO SIDESHIFT will be displayed.

To repair the problem, remove the cover for access to the MIB and perform the function (sideshift) which caused the fault to occur. Fault code 43 would be displayed on the right two digits of the MIB when the sideshift function was attempted. The service person would refer to MIB Code 43 on the following pages to diagnose and repair the cause of the problem.

NOTE: The fault code, fault message, and fault icon for most faults are displayed only when the operator attempts to perform the affected function.

TROUBLESHOOTING CHARTS

The sample chart that follows explains the format for the information provided on the following pages. Note that an X in the MIB CODE section represents a placeholder character and can be any number. The priority level is provided to show the relative order codes that would be displayed in the event of more than one simultaneous status, warning, or fault condition.

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