SERVICE MANUAL

S25-35XM, S40XMS (C010)



FORM 897595 Rev. 01/04

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S25-35XM, S40XMS (C010)
SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
FRAME	0100 SRM 0545	02/01
MAZDA M4-2.0G ENGINE	0600 SRM 0496	02/01
MAZDA M4-2.5D ENGINE	0600 SRM 0538	02/01
COOLING SYSTEM	0700 SRM 0626	11/01
LPG FUEL SYSTEM (EXCEPT AISAN SYSTEM)	0900 SRM 0523	01/96
GASOLINE FUEL SYSTEM	0900 SRM 0547	02/01
LPG FUEL SYSTEM (AISAN SYSTEM)	0900 SRM 0925	08/02
SINGLE-SPEED PS TRANS - DESCR/OPER/REPAIR	1300 SRM 0543	12/03
DRIVE AXLE	1400 SRM 0542	12/03
STEERING CONTROL UNIT (ROSS HGF)	1600 SRM 0257	07/00
STEERING AXLE	1600 SRM 0532	02/01
STEERING HOUSING	1600 SRM 0565	11/94
BRAKE SYSTEM	1800 SRM 0540	02/01
HYDRAULIC SYSTEM and GEAR PUMP	1900 SRM 0539	02/01
MAIN CONTROL VALVE	2000 SRM 0541	02/01
TILT CYLINDERS	2100 SRM 0103	10/03
INSTRUMENT CLUSTER	2200 SRM 0514	01/04
ELECTRICAL SYSTEM (MAZDA M4-2.0G)	2200 SRM 0524	02/01
ELECTRICAL SYSTEM (MAZDA M4-2.5D)	2200 SRM 0550	02/01
MAST - DESCRIPTION	4000 SRM 0521	11/03
MAST - REPAIR	4000 SRM 0522	11/03
INCH (SAE) and METRIC FASTENERS	8000 SRM 0231	03/03
PERIODIC MAINTENANCE	8000 SRM 0531	06/00
DIAGRAMS	8000 SRM 0544	01/03
CAPACITIES and SPECIFICATIONS	8000 SRM 0546	02/01

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Legend for Figure 28 (Continued)

* Metric Formulas (All Dimensions are in Millimeters)
Class III Mast Type
Dimension E = (0.492 × Y) + (0.985 × Z) + 269 **The Calculation for Dimension E for Class III Mast is the Same as Class II Mast. See Class II Mast - Metric Formula.**
Dimension G Calculations are Similar to Dimension E Dimension G (3 Function) for Lift Heights of 2360 mm to 2960 mm: (1.981 × Y) + (0.985 × Z) − 851 Dimension G (3 Function) for Lift Heights of 3060 mm to 5360 mm: (1.991 × Y) + (0.985 × Z) − 972 Dimension G (4 Function) for Lift Heights of 2360 mm to 2960 mm: (1.981 × Y) + (0.985 × Z) − 919 Dimension G (4 Function) for Lift Heights of 3060 mm to 5360 mm: (1.991 × Y) + (0.985 × Z) − 1100

* Inch Formulas (All Dimensions are in Inches)
Class III Mast Type
Dimension E = (0.492 × Y) + (0.985 × Z) + 10.594 **The Calculation for Dimension E for Class III Mast is the Same as Class II Mast. See Class II Mast - Inch Formula.**
Dimension G Calculations are Similar to Dimension E Dimension G (3 Function) for Lift Heights of 92.9 to 116.5 (1.981 × Y) + (0.985 × Z) − 33.500 Dimension G (3 Function) for Lift Heights of 120.5 to 211.0 (1.991 × Y) + (0.985 × Z) − 38.281 Dimension G (4 Function) for Lift Heights of 92.9 to 116.5 (1.981 × Y) + (0.985 × Z) − 36.156 Dimension G (4 Function) for Lift Heights of 120.5 to 211.0 (1.991 × Y) + (0.985 × Z) − 43.312
*All measurements are made with mast vertical and fully lowered.

1. DIMENSION G
2. DIMENSION E
3. VISE
4. TOP OUTER CHANNEL
5. HOSE
6. BOTTOM OUTER CHANNEL
7. GROUND LEVEL

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Troubleshooting

PROBLEM	POSSIBLE CAUSE	PROCEDURE OR ACTION
The output of the pump is less than specifications.	See Possible Cause for "The pump makes more noise than normal."	See Procedure or Action for "The pump makes more noise than normal."
The pressure for the steering system is below specifications.	The relief valve is not adjusted correctly.	Adjust or install new relief valve.
	The relief valve is damaged.	Repair or install new relief valve.
	The pump is worn.	Repair or install new pump.
The flow for the steering system is below specifications.	The flow control valve is not operating correctly.	Repair or install new flow control valve.
	The relief valve is not adjusted correctly.	Adjust or install new relief valve.
The pump makes more noise than normal.	The oil level is not correct or there is no oil in the tank (cavitation).	Check oil level and fill as required. Check for leaks.
	The incorrect type or grade of hydraulic oil is used for the temperature or type of operation (cavitation).	Check, drain, and fill tank with the correct oil.
	The suction screen has a restriction (cavitation).	Clean or install new screen.
	The inlet fitting is loose or hose leaks are allowing air to enter the system (aeration).	Tighten fitting. Install new hoses. Remove air from the system.
	The pump bearings or gears are damaged.	Repair or install new pump.
	The capscrews that hold the pump together are loose.	Tighten capscrews to the specified torque.
	The pump is loose.	Tighten fasteners to the specified torque.
	The pump drive mechanism is loose, worn, or damaged.	Check, repair, or install new parts as required.

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Legend for Figure 12

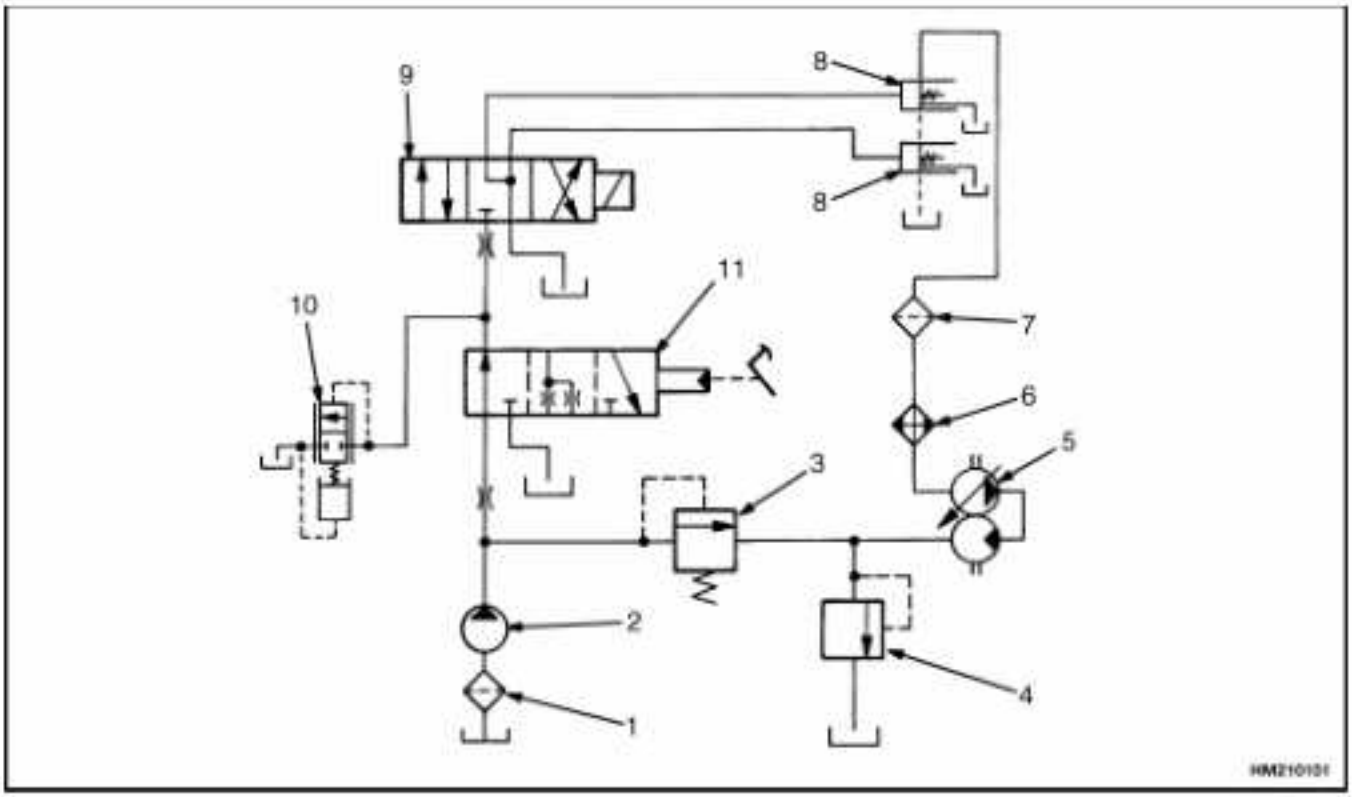
NOTE: COLOR CODES: 7 = WHITE/RED, 9 = WHITE/BLACK, 40 = RED, 24 = WHITE/BLUE, 41 = BROWN/BLACK (FWD SOLENOID), 42 = LT GRN/BLACK (REV SOLENOID).

A. START SWITCH (MONOTROL)

1. SERVICE BRAKE SWITCH
2. NEUTRAL START SWITCH WITH MONOTROL

B. TRANSMISSION CONTROL WITH MONOTROL

3. DIRECTION CONTROL SWITCHES
4. CONNECTOR-TO-COWL WIRING HARNESS



1. STRAINER
2. PUMP
3. CLUTCH PRESSURE REGULATOR
4. TORQUE CONVERTER REGULATOR
5. TORQUE CONVERTER
6. OIL COOLER
7. OIL FILTER
8. CLUTCH
9. DIRECTION SPOOL (SOLENOID VALVE)
10. MODULATOR SPOOL
11. INCHING SPOOL

Figure 13. Transmission Hydraulic Schematic (Earlier Models)

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