SERVICE MANUAL

E25-35XM2, E40XMS2 (D114)



FORM 1464842 Rev. 02/04

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SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
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STEERING SYSTEM	1600 SRM 0485	08/03
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CAPACITIES AND SPECIFICATIONS	8000 SRM 0621	08/03
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Legend for Figure 28

* Metric Formulas (All Dimensions are in Millimeters)
Class II Mast Type
Dimension E = (0.492 × Y) + (0.985 × Z) + 303
Example: Dimension E = (0.492 × Y) + (0.985 × Z) + 303 **Step 1.** Dimension E = (0.492 × 2482) + (0.985 × 2095) + 303 **Step 2.** Dimension E = 1221.1 + 2063.6 + 303 **Step 3.** Dimension E = 3284.7 + 303 **Step 4.** Dimension E = 3587.7
Dimension G Calculations are Similar to Dimension E Dimension G (3 Function) for Lift Heights of 2482 mm to 2982 mm: (1.982 × Y) + (0.985 × Z) − 801 Dimension G (3 Function) for Lift Heights of 3082 mm to 5482 mm: (1.991 × Y) + (0.985 × Z) − 917 Dimension G (4 Function) for Lift Heights of 2482 mm to 2982 mm: (1.982 × Y) + (0.985 × Z) − 868 Dimension G (4 Function) for Lift Heights of 3082 mm to 5482 mm: (1.991 × Y) + (0.985 × Z) − 1046

* Inch Formulas (All Dimensions are in Inches)
Class II Mast Type
Dimension E = (0.492 × Y) + (0.985 × Z) + 11.938
Example: Dimension E = (0.492 × Y) + (0.985 × Z) + 11.938 **Step 1.** Dimension E = (0.492 × 97.7) + (0.985 × 82.5) + 11.938 **Step 2.** Dimension E = 48.1 + 81.3 + 11.938 **Step 3.** Dimension E = 129.4 + 11.938 **Step 4.** Dimension E = 141.34
Dimension G Calculations are Similar to Dimension E Dimension G (3 Function) for Lift Heights of 97.7 to 117.4 (1.982 × Y) + (0.985 × Z) − 31.531 Dimension G (3 Function) for Lift Heights of 121.3 to 215.8 (1.991 × Y) + (0.985 × Z) − 36.125 Dimension G (4 Function) for Lift Heights of 97.7 to 117.4 (1.982 × Y) + (0.985 × Z) − 34.156 Dimension G (4 Function) for Lift Heights of 121.3 to 218.8 (1.991 × Y) + (0.985 × Z) − 41.156
*All measurements are made with mast vertical and fully lowered.

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PROBLEM	POSSIBLE CAUSE	PROCEDURE OR ACTION
Steering wheel turns the tires in the wrong direction.	The hydraulic lines are not connected correctly at the steering cylinder or at the steering control unit.	Connect lines properly. Remove air from system.
Steering function continues after the steering wheel stops.	The steering control unit was assembled wrong or has damage.	Repair or install new control unit.
There is air in the steering system.	The oil level in the tank is low.	Add hydraulic oil as necessary. Check for leaks.
	Air was not removed after repair to the hydraulic or steering system.	Remove air from system.
	The hydraulic pump has an air leak at the inlet.	Repair system. Remove air from system.

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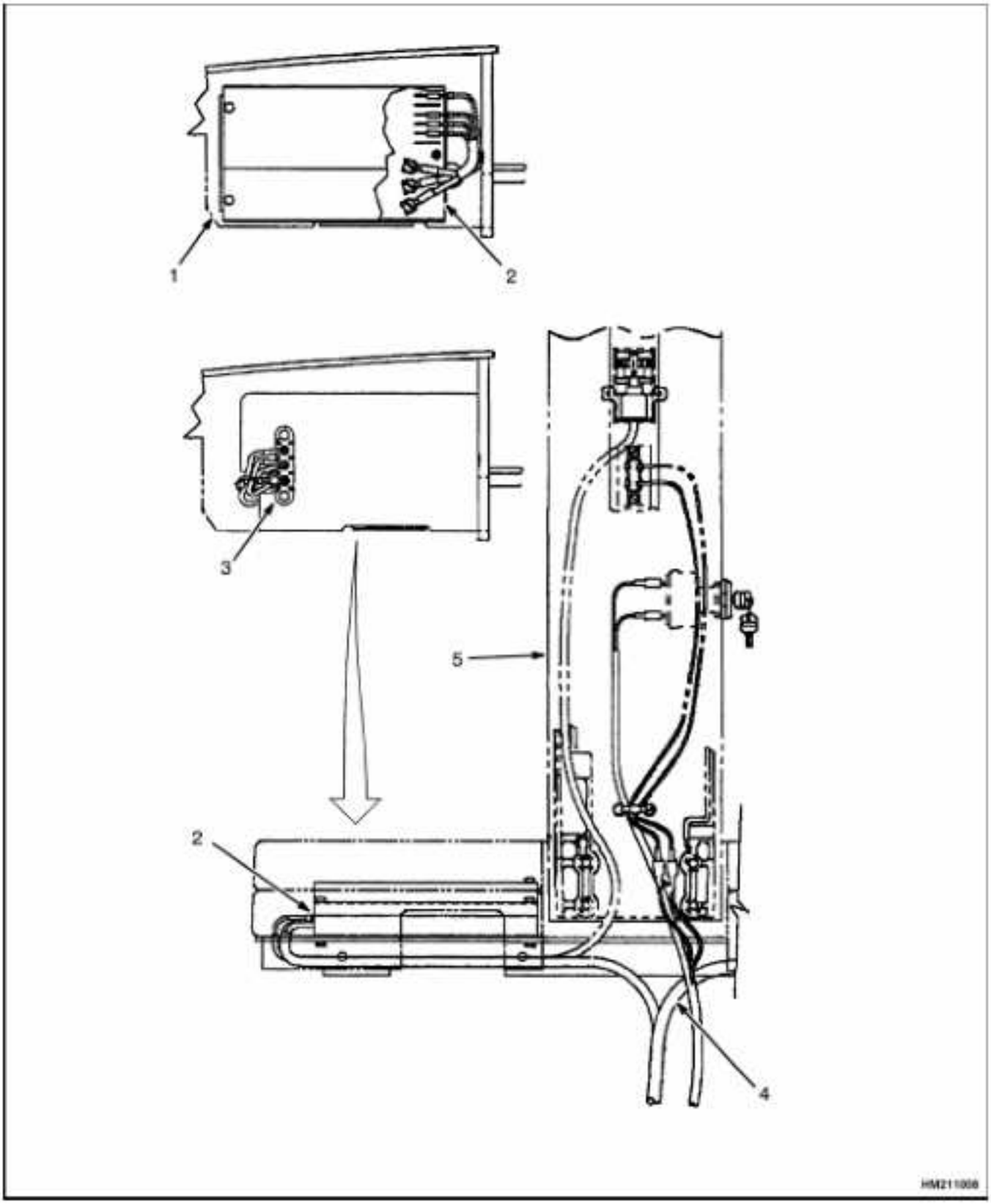


Figure 28. Steering Column Wiring Detail E1.50-1.75XM, E2.00XMS (E25-35XM$_2$S, E40XM$_2$S)

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