SERVICE MANUAL

D203 (A25XNT, A30NXT)



Rev. 05/14

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D203 (A25XNT, A30NXT)
SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
OPERATOR'S CAB	0100 SRM 1446	08/13
FRAME	0100 SRM 1514	12/13
AC MOTOR REPAIR	0620 SRM 1515	12/13
LOAD AXLE	1300 SRM 1516	12/13
STEERING SYSTEM	1600 SRM 1517	12/13
BRAKE SYSTEM	1800 SRM 1518	12/13
HYDRAULIC SYSTEM	1900 SRM 1519	05/14
MAIN CONTROL VALVES	2000 SRM 1520	05/14
CYLINDER REPAIR (MAST S/N A270, A271, A272, C661, C662, C663)	2100 SRM 1521	05/14
MAST REPAIR (S/N A270, A271, A272, C661, C662, AND C663)	4000 SRM 1525	02/14
WIRE HARNESS REPAIR	2200 SRM 1128	04/14
USER INTERFACE, SUPERVISOR	2200 SRM 1335	02/14
USER INTERFACE, SERVICE	2200 SRM 1336	02/14
ELECTRICAL SYSTEM	2200 SRM 1524	05/14
METRIC AND INCH (SAE) FASTENERS	8000 SRM 0231	12/04
PERIODIC MAINTENANCE	8000 SRM 1526	05/14
DIAGRAMS	8000 SRM 1528	05/14
CAPACITIES AND SPECIFICATIONS	8000 SRM 1527	05/14
DIAGNOSTIC TROUBLESHOOTING MANUAL	9000 SRM 1377	08/13

Rev. 07/99

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Table 9. Calibration Submenus and Icons (Continued)

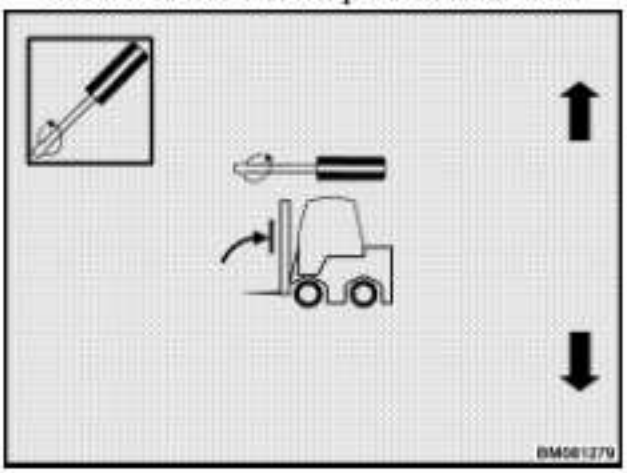
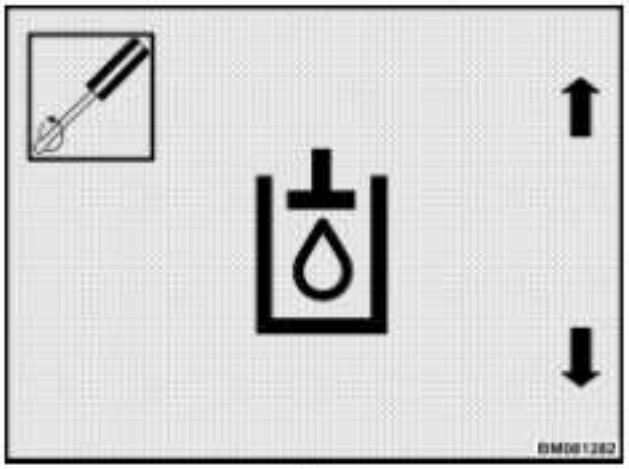
Icon	Description
	"Known Load Weight Value (lb)" Prompt Icon
	"Known Load Weight Value (kg)" Prompt Icon
	This icon points to the * key (the Enter soft key) and is used for load weight calibration in this submenu.
Return to Set Tilt Stop Point Submenu	
	

Table 9. Calibration Submenus and Icons (Continued)

Icon	Description
	Return to Set Tilt (RTST) Set Point Prompt Icon
	This icon points to the * key and is used for RTST calibration in this submenu.
Valve Threshold Submenu	
	
	Valve Threshold Function 1 "A" Direction Prompt Icon

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External Leakage From Free-Lift or Main Lift Cylinders

POSSIBLE CAUSE

A. MAST DAMAGED
B. CYLINDER HOSES OR FITTINGS LOOSE OR DAMAGED
C. CYLINDER SEAL DAMAGE OR INCORRECT INSTALLATION
D. CYLINDER ROD DAMAGE

CAUSE A - MAST DAMAGED

NOTE: See **Operating Manual**.

PROCEDURE OR ACTION:
Visually inspect mast for damage.

Is the mast in good condition?

YES: Go to Cause B.

NO: Repair or replace damaged components. Depending on your lift truck see, **Mast Repair, 2- and 3-Stage High Visibility Masts** 4000 SRM 1386, **Mast Repair, 2-, 3-, and 4-Stage Heavy Duty Masts** 4000 SRM 1405, **Mast Repair, 2-, 3-, and 4-Stage Masts** 4000 SRM 1338, or **Mast Repair, 2- and 3-Stage Masts** 4000 SRM 1441.

CAUSE B - CYLINDER HOSES OR FITTINGS LOOSE OR DAMAGED

PROCEDURE OR ACTION:
Inspect hoses and fittings for damage and proper torque.

Are hose and fittings in good condition and torqued correctly?

YES: Go to Cause C.

NO: Adjust or replace hoses or fittings as required. Depending on your lift truck see, **Mast Repair, 2- and 3-Stage High Visibility Masts** 4000 SRM 1386, **Mast Repair, 2-, 3-, and 4-Stage Heavy Duty Masts** 4000 SRM 1405, **Mast Repair, 2-, 3-, and 4-Stage Masts** 4000 SRM 1338, or **Mast Repair, 2- and 3-Stage Masts** 4000 SRM 1441.

CAUSE C - CYLINDER SEAL DAMAGE OR INCORRECT INSTALLATION

PROCEDURE OR ACTION:
Inspect lift cylinder seals.

Are the seals in good condition and installed correctly?

YES: Go to Cause D.

NO: Adjust or replace seals as required. Depending on your lift truck see, **Cylinder Repair** 2100 SRM 1382 or **Cylinder Repair** 2100 SRM 1440.

CAUSE D - CYLINDER ROD DAMAGE

PROCEDURE OR ACTION:
Inspect cylinder rod for damage.

Is cylinder rod in good condition?

YES: Problem solved. Resume operations.

NO: Replace cylinder rod or cylinder. Depending on your lift truck see, **Cylinder Repair** 2100 SRM 1382 or **Cylinder Repair** 2100 SRM 1440.

END SYMPTOM

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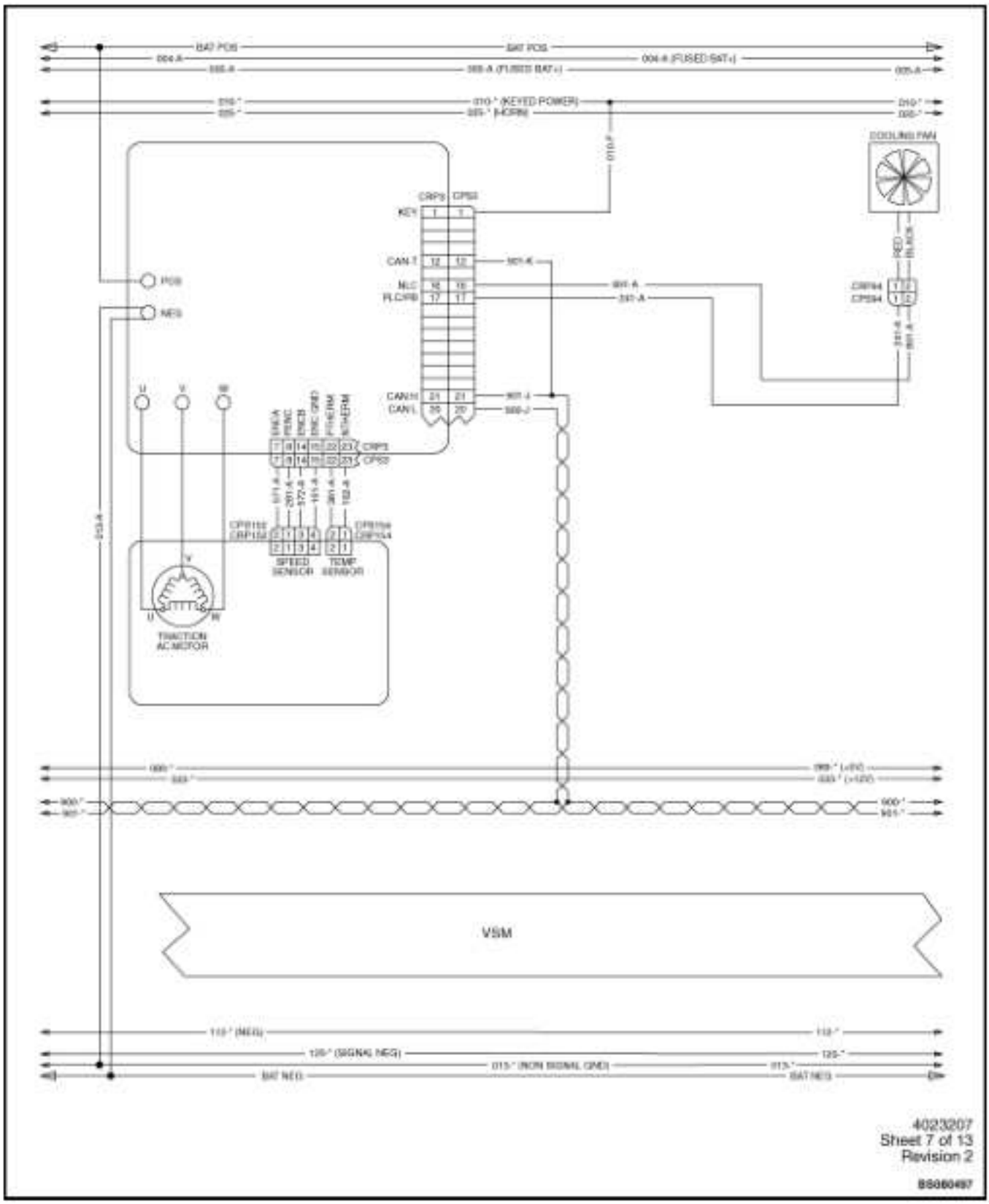


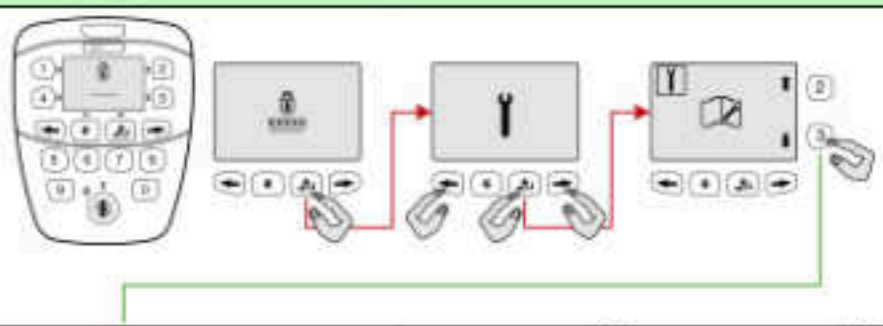
Figure 1. Schematic/Wiring Diagram (Sheet 7 of 13)

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TSP Steer Axle Calibration Required (Cont)

CAUSE D

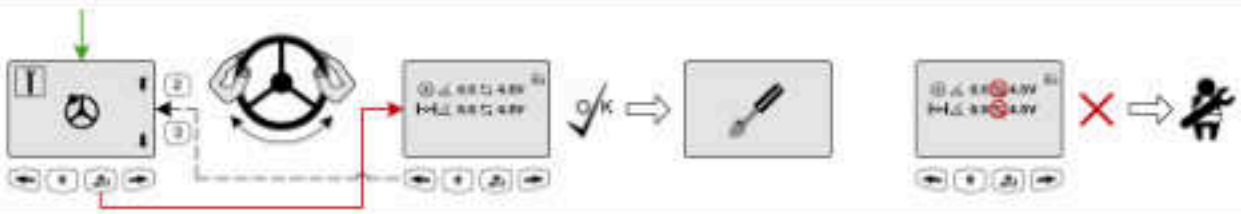
Calibration Process--Go to Display Menu



Enter SERVICE Password→ ☞* ⇆Diagnostics→ ☞* ↓↑Steering Sensor

CAUSE D1

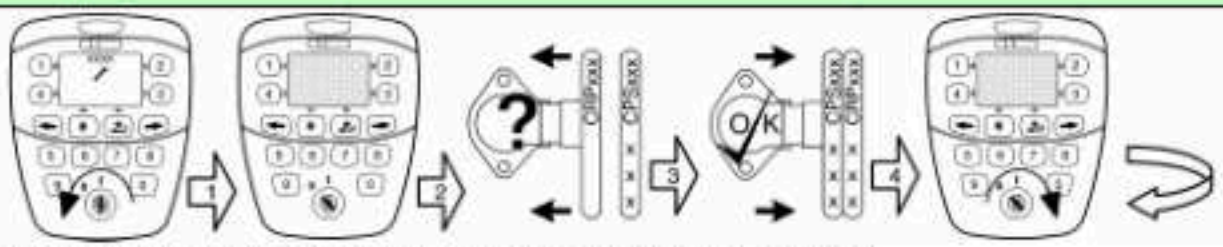
Steering Sensor Values



1. ☞*→ Rotate steering wheel ↑ Values vary >0.5V <4.5V = H→ Proceed with Calibration→ Cause D3↓
2. ☞*→ Rotate steering wheel ↑ Values =the same = X=Steer Mechanism/Faulty Sensor→ Go to 3↓
3. Check Steer Mechanism Operation→ Mechanism H→ Cause D2↓ Mechanism X Go to 4↓
4. See **Steering System** 1600 SRM 1331/**Steering System** 1600 SRM 1363 repair.

CAUSE D2

Steer Sensor(s) Replacement



1. Power **OFF**→ Disconnect sensor **Do not discard.**→ Install new sensor→ Power **ON**→ Go to 2↓
2. See **Electrical System** 2200 SRM 1337/**Electrical System** 2200 SRM 1369.

(continued on next page)

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High Tire Wear - Steer Axle

POSSIBLE CAUSE

A. RUNNING OVER OIL/SOLVENTS AND DEBRIS
B. EXCESSIVE SPEED ON TURNS AND STOPS
C. TURNING WITH MACHINE STOPPED OR NO LOAD ON FORKS
D. LOW PNEUMATIC TIRE INFLATION
E. HIGH PNEUMATIC TIRE INFLATION
F. FAILED WHEEL BEARINGS
G. LOOSE TIE RODS

CAUSE A - RUNNING OVER OIL/SOLVENTS AND DEBRIS

PROCEDURE OR ACTION:
Visually inspect work area for contaminates and debris.

CAUSE B - EXCESSIVE SPEED ON TURNS AND STOPS

PROCEDURE OR ACTION:
Reduce speed and spinning of wheels.

CAUSE C - TURNING WITH MACHINE STOPPED OR NO LOAD ON FORKS

PROCEDURE OR ACTION:

NOTE: Steering without load on forks puts the highest load on steer axle because of counterweight. Avoid steering wheels when not moving to reduce tire wear.
Steer while moving whenever possible.

CAUSE D - LOW PNEUMATIC TIRE INFLATION

PROCEDURE OR ACTION:
Check and adjust tire inflation. See **Operating Manual**.

CAUSE E - HIGH PNEUMATIC TIRE INFLATION

PROCEDURE OR ACTION:
Check and adjust tire inflation. See **Operating Manual**.

CAUSE F - FAILED WHEEL BEARINGS

PROCEDURE OR ACTION:
Inspect wheel bearings.

Are bearings in good condition?

YES: Tires are defective. See tire manufacturer for warranty.

NO: Replace wheel bearing. Depending on your lift truck, see **Transaxle** 1300 SRM 1330 or **Steering Axle** 1600 SRM 1360.

CAUSE G - LOOSE TIE RODS

PROCEDURE OR ACTION:
Inspect joint where tie rods are attached to pinion assembly.

Is the tie rod tight in bore?

YES: See Wheels Appear Tipped or Misaligned.

NO: Replace tie rod. Depending on your lift truck, see **Transaxle** 1300 SRM 1330 or **Steering Axle** 1600 SRM 1360.

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