SERVICE MANUAL

A269 (E30-40XN)



Rev. 04/14

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A269 (E30-40XN)
SERVICE MANUAL CONTENTS

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Calibration Menu

INTRODUCTION

The Calibration Menu is a main menu (top-level menu) that is visible at Service Technician, Supervisor, and Operator password access levels. The Calibration Submenus and Icons topic shows the icons displayed on calibration screens. To access this menu, cycle through the main menu title screens by pressing the **Scroll Back Key** (?—) or **Scroll Forward Key** (—?) until the Calibration Title Screen is displayed, as shown in Figure 29.

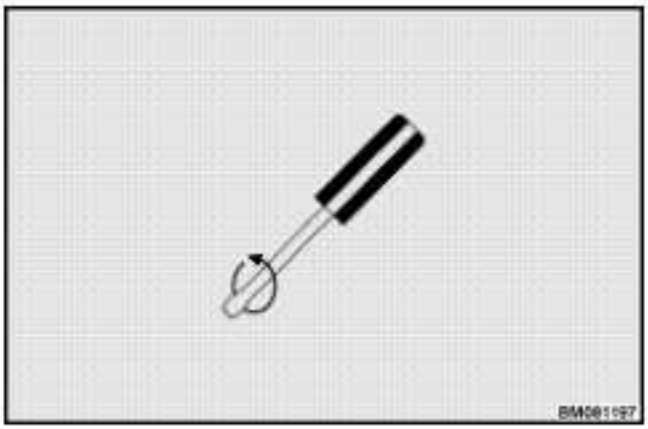


Figure 29. Calibration Title Screen

Press the **Enter Key** (*) to enter the Calibration Menu and the system will display the first submenu in the Calibration Menu, the Load Weight Display submenu, which is shown in Figure 30. Press the **Enter Key** again if you want to enter this submenu. If you want a different submenu, use the **Scroll Back Key** or **Scroll Forward Key** to move to another submenu and press the **Enter Key**.

The Calibration Menu presents these submenus:

- Load Weight Display
- Return to Set Tilt Stop Point
- E-Hydraulic Valves
- Steering Wheel Knob Center Point
- Steer Axle Position
- Manual Hydraulics

The following sections describe the Calibration submenus.

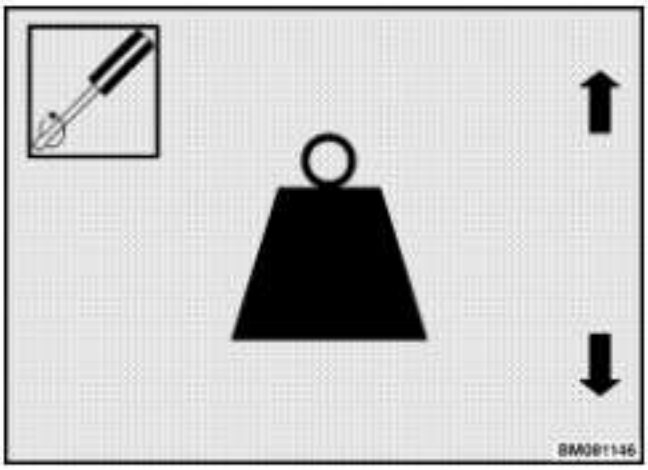


Figure 30. Load Weight Display Submenu

LOAD WEIGHT CALIBRATION

NOTE: This measurement is not for trade.

This menu item, shown in Figure 30, allows a Service Technician, Supervisor, or Operator to calibrate Load Weight. To calibrate Load Weight, select this submenu from the Calibration Menu and follow the prompts on the display.

NOTE: When the user is logged in under an operator level password or default password, only the tare weight default zero point calibration is available.

To calibrate the Load Weight Display:

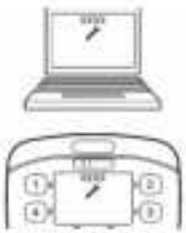
1. Starting from the Calibration Menu, scroll to the Load Weight Display screen and press the **Enter Key**.
2. When prompted, position the empty forks at the load weight height, which is site dependent.
3. Press the **Enter Key**.
4. When prompted, use the numeric keys to enter the known load weight in lb or kg units, as indicated in the load weight icon. Use a load weight that is between 1,000 lbs (450 kg) and 16,000 lbs (7,260 kg).

NOTE: Do not exceed the truck's rated capacity.

5. Press the **Enter Key**.

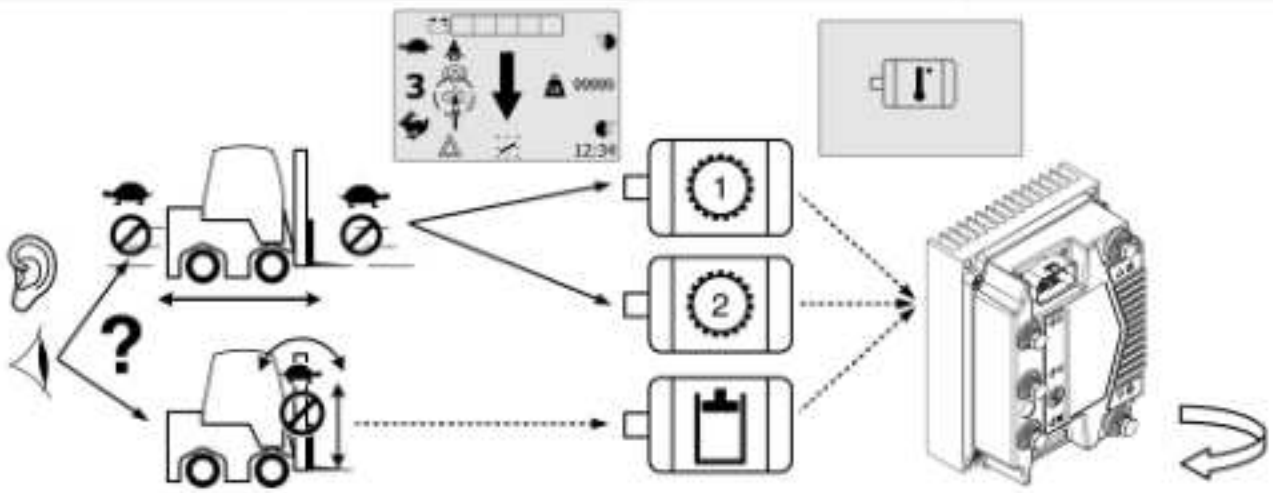
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TSP A935 – K160 Motor/Motor Controller Temperature Sensor Failure



DTC None
A935 – K160 Motor/Motor Controller Temperature Sensor Failure

FAULT CODES:

QUICK CHECK X = Open Circuit/Fail) = Short Circuit	
Check 1	
	
? Over Temperature Icon Displayed at Power ON?	
POSSIBLE CAUSES	
1. Sensor(s) – Motor/Motor Controller – Connections/Wiring?→	Cause A↓
2. Sensor(s) Failure?→	Cause A↓
3. Motor Controller(s) Hardware Failure?→	Cause D↓
Note: Hydraulic Oil Over Temperature and Sensor Issues seeHydraulic Temperature Sensor Out of Range High (OORL) /Hydraulic Temperature Sensor Out of Range High (OORH)	
? Over Temperature Icon Displayed during Operation/Reduced Performance/Function Failure?	
POSSIBLE CAUSES	
1. Motor/Motor Controller/Hydraulic Fluid Overheating?→	Aggressive Operation?→
2. Sensor – Motor/Motor Controller/Hyd Tank – Connections/Wiring?→	Cause A↓
3. Sensor(s) Failure?→	Cause A↓
4. Motor Controller(s) Failure ?→	Cause D↓

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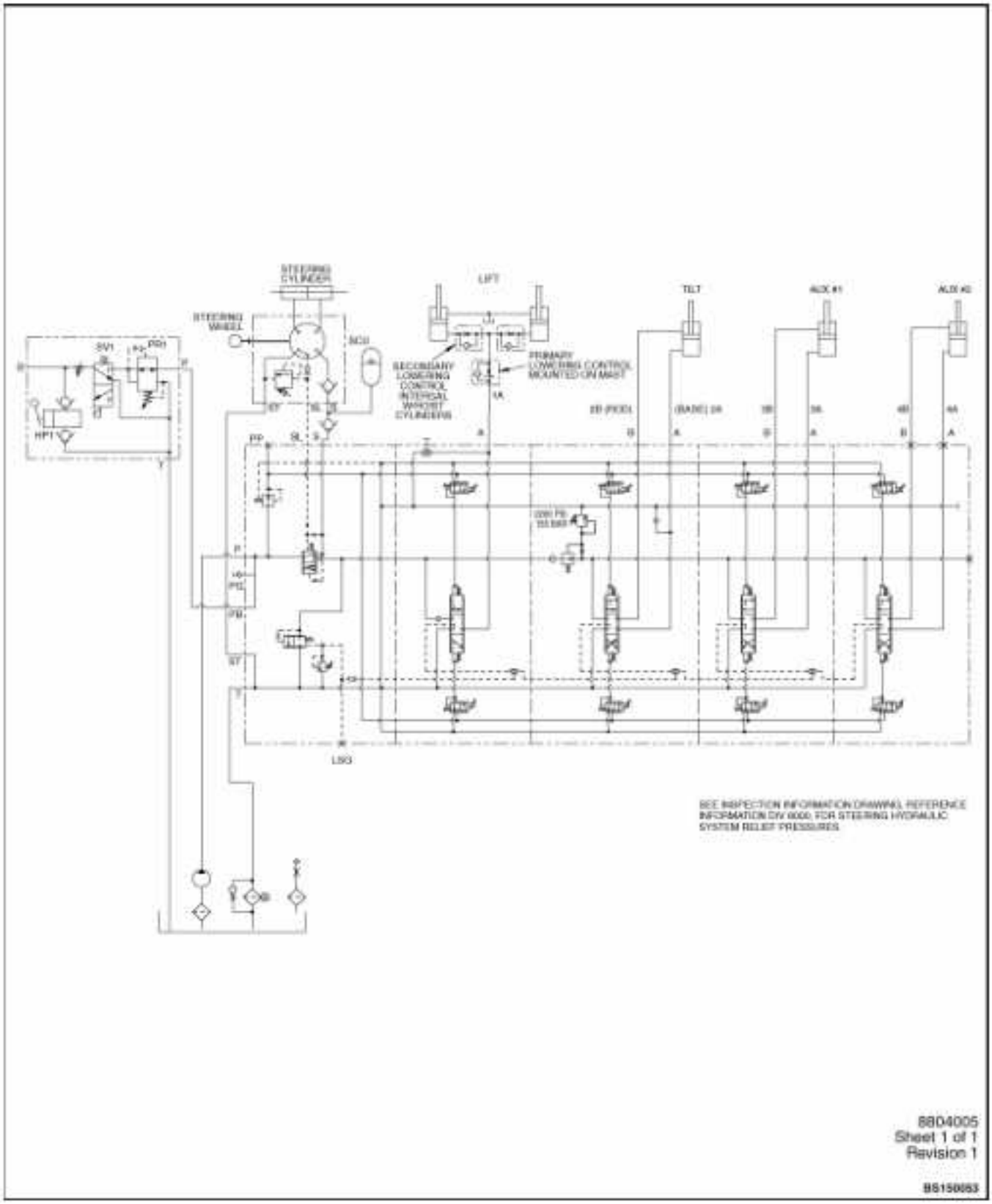


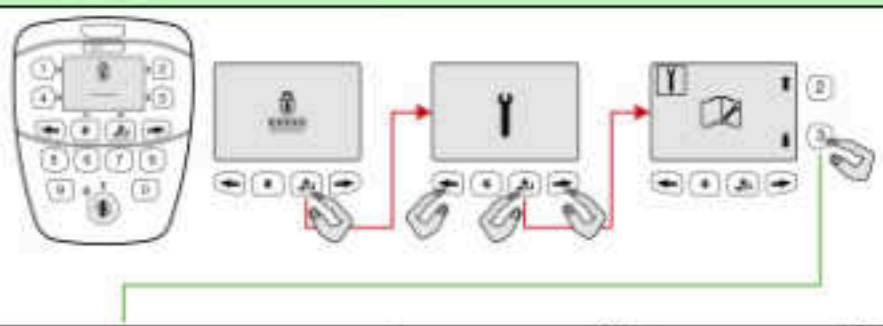
Figure 9. E-Hydraulic Schematic for J4.0-5.0XN (J80-100XN) (A970)

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TSP Steer Axle Calibration Required (Cont)

CAUSE D

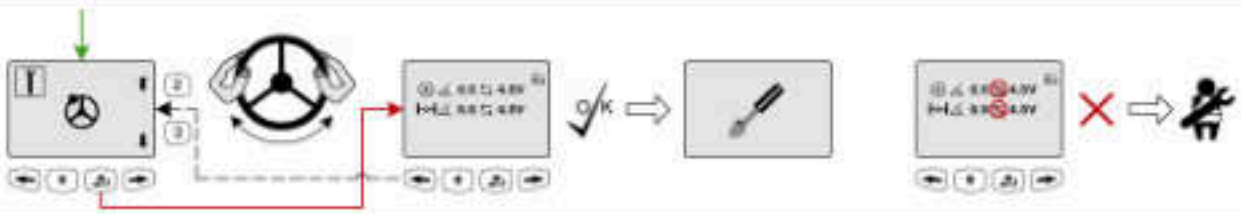
Calibration Process--Go to Display Menu



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

CAUSE D1

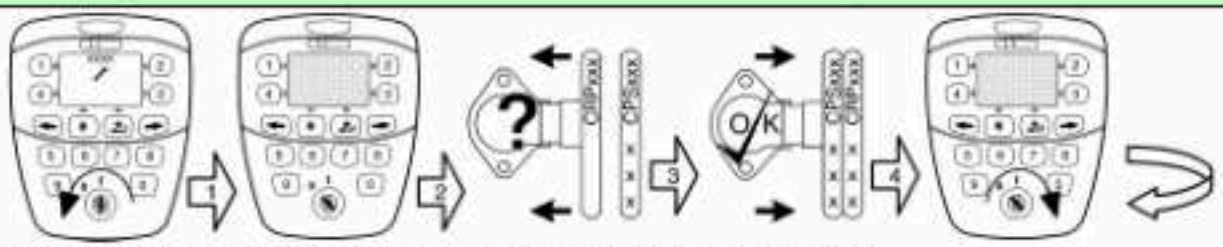
Steering Sensor Values



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.

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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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