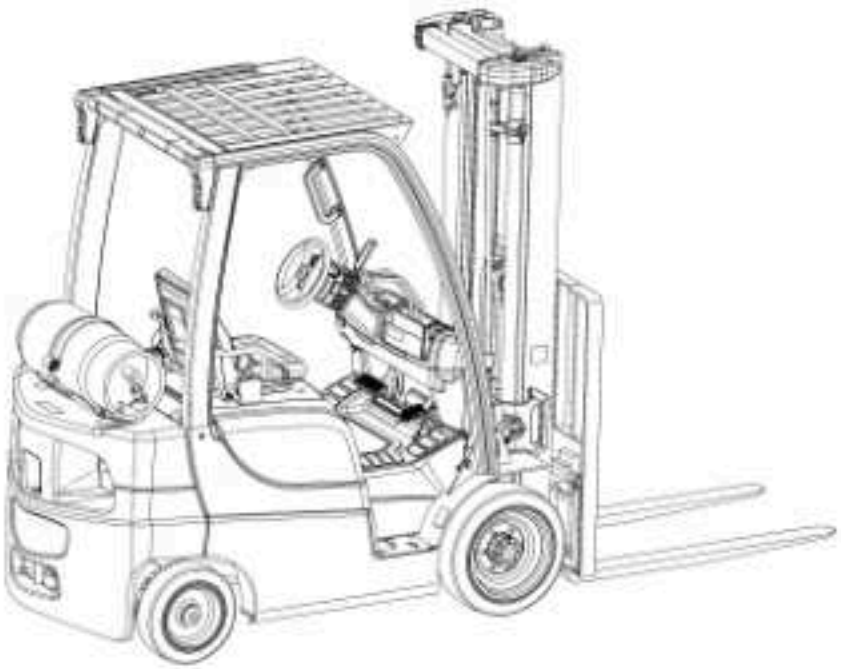
SERVICE MANUAL

A267 (S50CT)



Rev. 04/14

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TABLE OF CONTENTS

General 1
Threaded Fasteners 1
Nomenclature, Threads 1
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This section is for the following models:

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See Figure 29 for lift truck models below equipped with GM 2.4L, Yanmar 2.6L, Yanmar3.0L or Yanmar 3.3L engine
- S2.0-3.5FT (S40-70FT, S55FTS) (F187)
- H2.0-3.5FT (H40-70FT) (L177)
- H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)

See Figure 30 for lift truck models below equipped with Yanmar 2.6L engine.
- H2.0-2.5CT (H50CT) (A274)

See Figure 32 for lift truck models below equipped with GM 4.3L engine
- S4.0, 4.5, 5.5FT, S5.5FTS, (S80, 100, 120FT; S80, 100FTBCS; S120FTS; S120FTPRS) (G004, H004)
- H4.0FT5/FT6; H4.5FTS5, H4.5FT6; H5.0-5.5FT (H80, 90, 100, 110, 120FT) (N005, P005, R005, S005)

See Figure 33 for lift truck models below equipped with Cummins 4.5L engine
- H4.0FT5/FT6; H4.5FTS5, H4.5FT6; H5.0-5.5FT (H80, 90, 100, 110, 120FT) (N005)

See Figure 34. for lift truck models below equipped with GM 4.3L, Cummins 4.5L, or Kubota 3.8L engines
- S6.0FT, S7.0FT (S135FT, S155FT) (D024, E024, F024, G024)

See Figure 35 for lift truck models below equipped with GM 4.3L, Cummins 4.5L, or Kubota engines
- H6.0FT, H7.0FT (H135FT, H155FT) (H006, J006, K006)

See Figure 39 for lift truck models below equipped with Kubota 3.8L diesel engine
- H4.0FT5/FT6; H4.5FTS5, H4.5FT6; H5.0-5.5FT (H80, 90, 100, 110, 120FT) (R005, S005)

NOTE: Perform Step 3 for lift truck models H8.0FT, H8.0FT9, H9.0FT (H170FT, H175FT36, H190FT) (A299, B299).

3. Install spacers, washers, and capscrews onto fan.

See Figure 37 for lift truck models below equipped with Cummins QSB 3.3L diesel engines
- H8.0FT, H8.0FT9, H9.0FT (H170FT, H175FT36, H190FT) (A299, B299)

See Figure 38 for lift truck models below equipped with GM 5.7L LPG engine
- H8.0FT, H8.0FT9, H9.0FT (H170FT, H175FT36, H190FT) (A299, B299)

See Figure 40 for lift truck models below equipped with Kubota 3.8L diesel engine
- H8.0FT, H8.0FT9, H9.0FT (H170FT, H175FT36, H190FT) (B299)

NOTE: Perform Step 4 for lift truck models
- H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)
- H2.0-3.5FT (H40-70FT) (L177)
- H2.0-2.5CT (H50CT) (A274)

4. Install the spacer, washers, and capscrews to the fan. Tighten the capscrews to 27 N•m (20 lbf ft).

See Figure 31 for lift truck models below equipped with Mazda 2.0L and 2.2L engines
- H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)
- H2.0-3.5FT (H40-70FT) (L177)
- H2.0-2.5CT (H50CT) (A274)

NOTE: Perform Step 5 for lift truck models
- S30FT, S35FT, S40FTS (E010)
- S2.0-3.5FT (S40-70FT, S55FTS) (F187)
- S50CT (A267)

5. Place the fan in position of the pulley and install capscrews and washers. Tighten the capscrews to 27 N•m (20 lbf ft).

See Figure 31 for lift truck models below equipped with Mazda 2.0L or 2.2L engines
- S30FT, S35FT, S40FTS (E010)
- S2.0-3.5FT (S40-70FT, S55FTS) (F187)
- S50CT (A267)

6. Install the spacer, washers, and capscrews to the fan. Tighten the capscrews to 27 N•m (20 lbf ft).

See Figure 32 for lift truck models below equipped with GM 4.3L engine
- S4.0, 4.5, 5.5FT, S5.5FTS, (S80, 100, 120FT; S80, 100FTBCS; S120FTS; S120FTPRS) (G004, H004)
- H4.0FT5/FT6; H4.5FTS5, H4.5FT6; H5.0-5.5FT (H80, 90, 100, 110, 120FT) (N005, P005, R005, S005)

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How To Use This Troubleshooting Manual

GENERAL INSTRUCTIONS AND SAFETY INFORMATION

WARNING

DO NOT add to or modify the lift truck. Any modification that affects the safe operation of the truck cannot be undertaken without written authorization of the Hyster company.

Any change to the lift truck, the tires, or its equipment can change the lifting capacity. The lift truck must be rated as equipped and the nameplate must show the new rating capacity.

WARNING

The technician must be aware of, and follow, all general safety precautions that are published in the Operating Manual and that are posted as Safety Decals on and in the lift truck.

Before starting, the technician should be familiar with certain policies, requirements, and instructions used in the troubleshooting procedures. Using the troubleshooting procedures correctly helps the technician to perform the procedure safely and prevents damage to the machine and support equipment.

HOW TO USE DIAGNOSTIC TROUBLESHOOTING MANUAL

Manual Layout:

Sections: The manual is divided into eight sections, each representing a major system, functional area, or specific operation on the lift truck.

- 9010 – Operational Diagnostic Procedures
- 9020 – Engine
- 9030 – Electrical System
- 9040 – Powertrain
- 9050 – Hydraulic Systems
- 9060 – Operator's Station
- 9070 – Front End (Mast) and Chassis
- 9080 – Supplementary Data

Groups: The sections of the manual are further subdivided into groups, where applicable, that identify specific functions, operating criteria, or maintenance tasks.

- 01 – Introduction to the Troubleshooting Manual
- 03 – General Maintenance/Diagnostic Data
- 05 – Operational Checkout
- 10 – Principles of Operation
- 20 – Diagnostic Trouble Codes
- 30 – Observed Symptoms
- 40 – Test and Adjustments

For Diagnostic Trouble Code listings, see General Maintenance and Diagnostic Data, Diagnostic Trouble Codes, Page 9030-03-6.

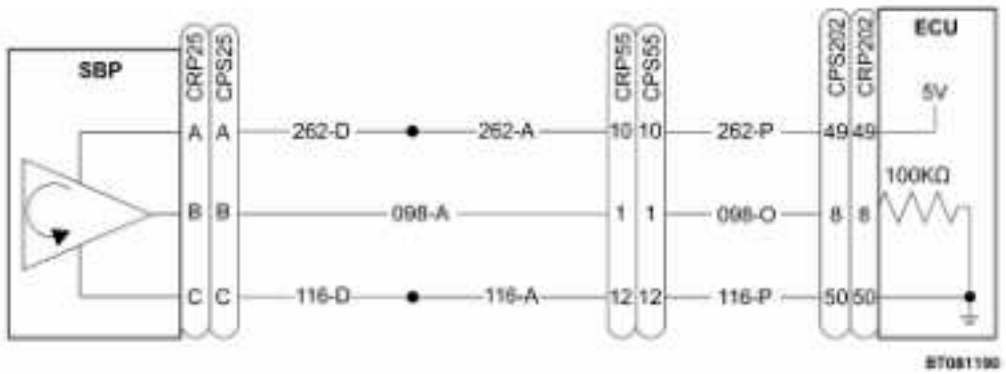
NOTE: Not all groups will appear in all sections.

Supplementary Data: The supplementary data section of the manual includes information and data that apply to many sections or groups and is stored here for access by all users of the manual. This data includes, but is not limited to:

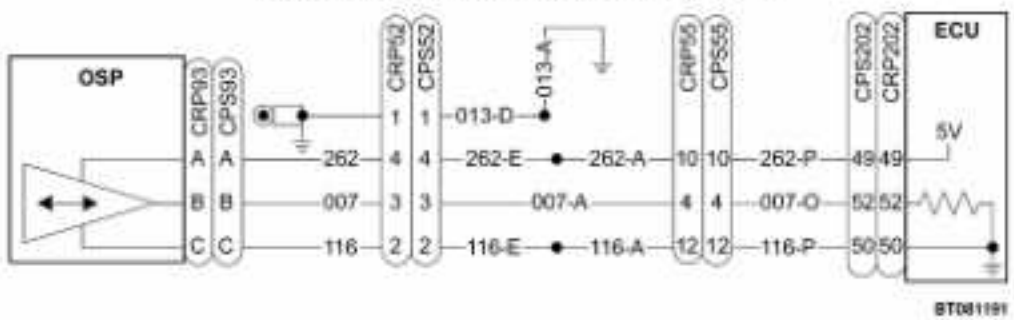
- Abbreviations and Acronyms
- Special Tools List
- Fault Mode Indication Reference Table
- Supplier Specification Data

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TSP Position Sensor OORH (Cont)

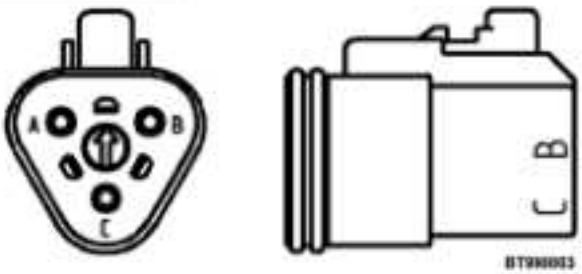


Brake Pedal Position Sensor Schematic

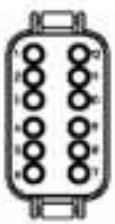


Seat Occupancy Position Sensor Schematic

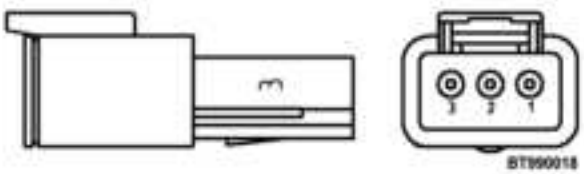
CONNECTOR(S)



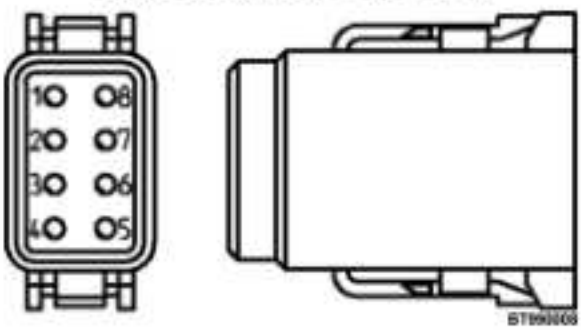
Sensor Connectors CPS 22, 25



Engine Harness Connector CPS 55



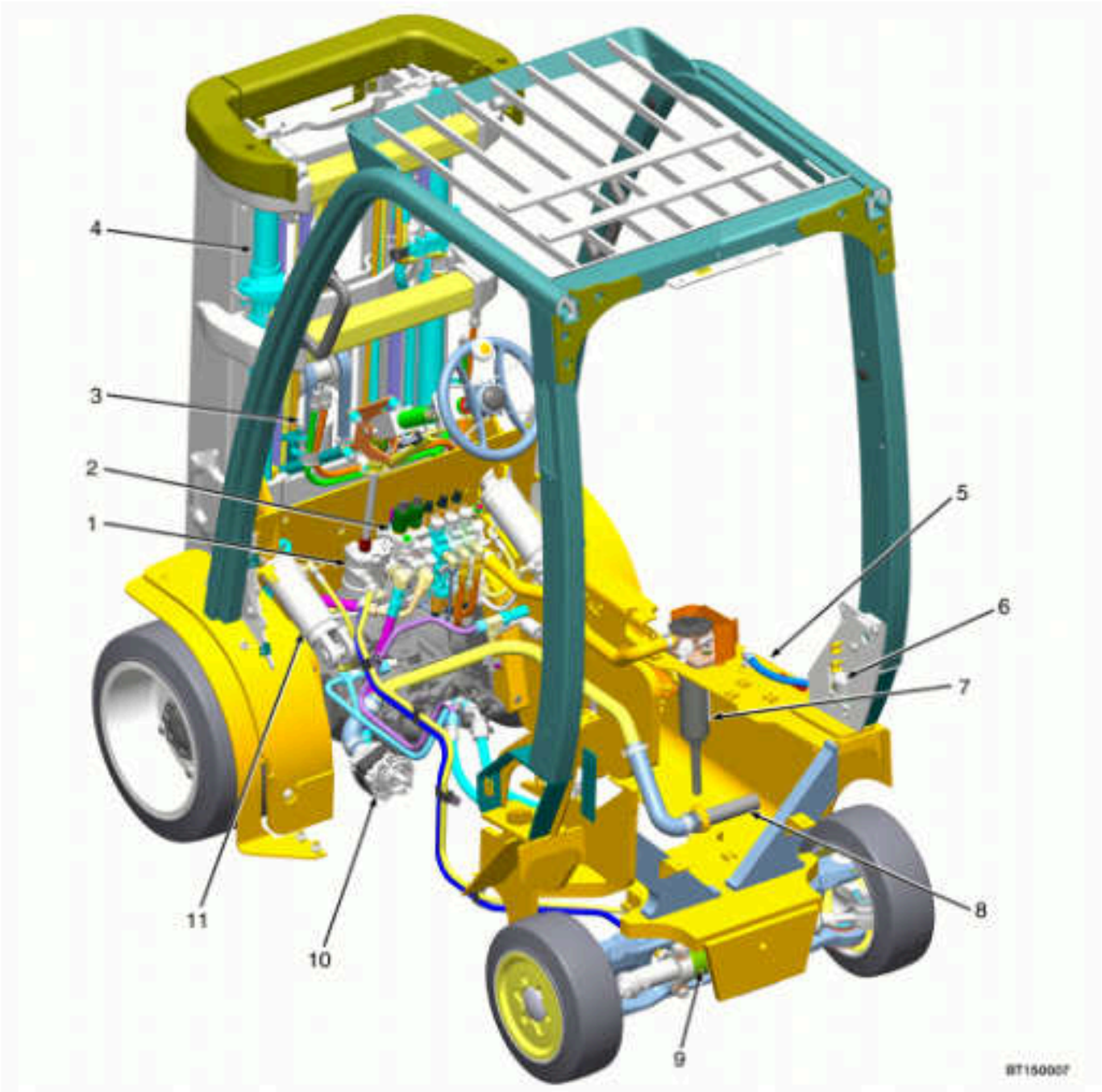
Sensor Connector CPS 93



Seat Harness Connector CPS 93

Check the Service Manual section in Hypass Online for possible updates and check pertinent Grams

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1. STEERING CONTROL UNIT (SCU)
2. MAIN HYDRAULIC CONTROL VALVE
3. FREE LIFT CYLINDER (CENTER)
4. LIFT CYLINDERS (2 USED)
5. HYDRAULIC TANK
6. BREATHER
7. RETURN FILTER
8. SUCTION SCREEN
9. STEERING CYLINDER
10. GEAR PUMP
11. TILT CYLINDERS (2 USED)

Figure 9050-10-1. Hydraulic Component Locator

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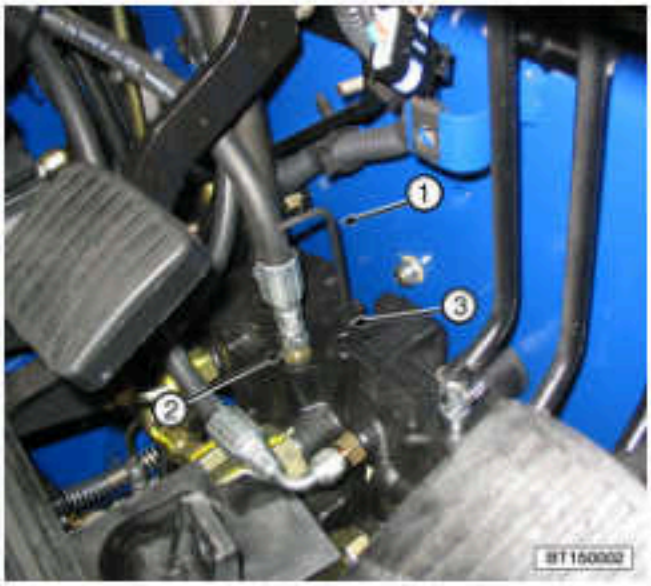


Figure 9050-43-11. SCU Top View

Legend for Figure 9050-43-11

1. HEX WRENCH
2. TEST GAUGE HOSE
3. STEERING CONTROL UNIT (SCU)

Tilt Cylinder Leakage Test

Hydraulic leakage causes heat and poor performance in a hydraulic system. This test is done to determine if the leakage is in the cylinder or the hydraulic control valve.

Table 9050-43-19. Test Specifications

Engine Speed	0 rpm
Oil Temperature	50°C (122 °F)
Maximum Rod Travel in 10 minutes	5° rotation of mast

Table 9050-43-20. Service Tools

Angle Meter	
Gate Valve rated at 24 MPa (3500 psi) minimum	
Tilt Valve Section Port Size	SAE #8 O-ring Port (3/4-16 UNF)

1. Lower forks to ground and stop engine. Apply park brake.

WARNING

Hot hydraulic oil can cause serious burns to skin. Do not touch hydraulic components or oil during test. Make sure hydraulic oil has cooled to safe temperature before installing or removing test equipment.

WARNING

Hydraulic oil under pressure can be injected into skin. Lower forks to ground and relieve all circuit pressure before removing hoses from cylinders.

CAUTION

Do not permit dirt or other contaminants to enter the hydraulic system. Disconnected hoses, tubes, open valves, cylinder fittings, and ports should be protected with clean caps or plugs.

2. Slowly loosen hose fitting to relieve pressure. Remove hose and install gate valve inline with hose on cylinder to be tested. Open gate valve fully to allow maximum flow during warm-up procedure.
3. Check hydraulic temperature. If not within specifications, see Tests and Adjustments-Gear Pump, Hydraulic Warm-up Procedure, Page 9050-43-2. Operate until temperature is at test specifications.
4. Put a capacity load on the forks, and raise the capacity load to 2.5 m (8.2 ft) and lower the load several times. Lower the load and slowly tilt the mast forward to 90° to floor and backward several times.
5. Check for external cylinder or hose leaks.

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