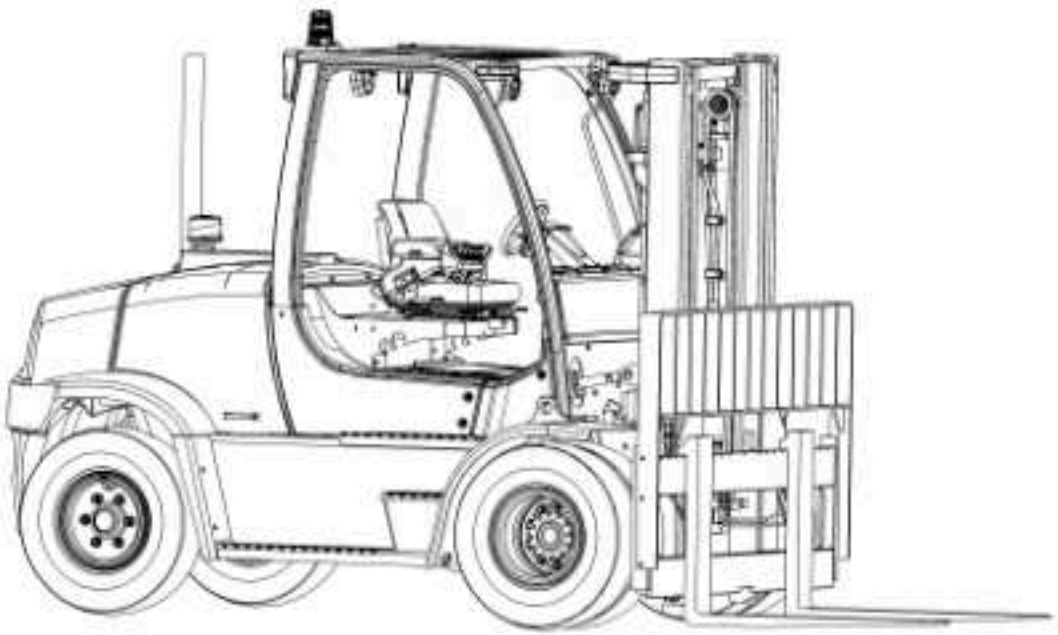
# SERVICE MANUAL

## K006 (H135FT, H155FT)



Rev. 06/14

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This section is for the following models:

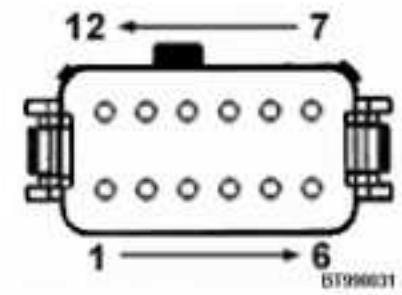
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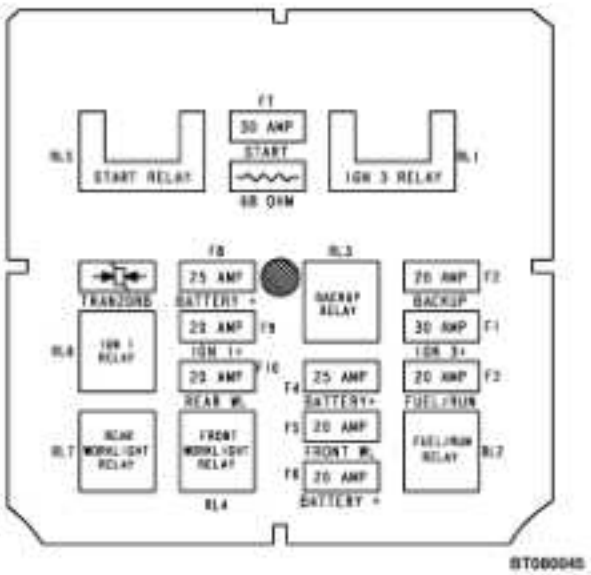
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## Relay Driver Output Fault, OORH (Cont)

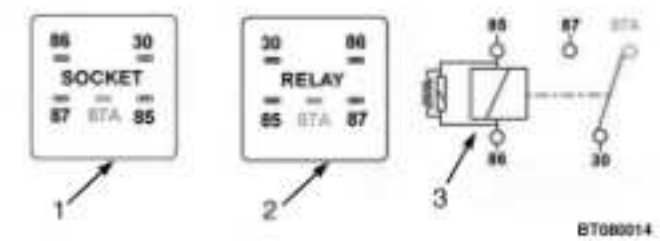
**CONNECTOR(S)**




**VSM Connector CPS 1**




**Relay Location in PDM**




1. TERMINAL IDENTIFICATION FOR SOCKET
2. TERMINAL IDENTIFICATION FOR RELAY
3. SCHEMATIC OF RELAY

**RL 1 and 5 Schematic and Socket Pin Location**

---

**END FAULT**



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# Secondary Function (Tilt orAux) Jump in Actuation

**POSSIBLE CAUSE**

**A. RAMP SETTING TOO HIGH FOR FUNCTION.**
**B. AIR TRAPPED IN CIRCUIT.**
**C. CALIBRATION OF OUTPUT THRESHOLD IS TOO LOW.**
**D. STUCK SPOOL IN CONTROL VALVE.**
**E. TILT CONTROL SPOOL PISTON STICKING (TILT FORWARD ONLY)**

**CAUSE A - RAMP SETTING TOO HIGH FOR FUNCTION.**

**PROCEDURE OR ACTION:**

1. Adjust function ramp setting on DSC. See **User Interface** 2200SRM1131. If symptom is still present, go to Cause B.

**CAUSE B - AIR TRAPPED IN CIRCUIT.**

**PROCEDURE OR ACTION:**

1. Remove air from circuit by cycling Tilt or Auxiliary functions fully for 5 - 10 times. If symptom is still present, go to Cause C.

**CAUSE C - CALIBRATION OF OUTPUT THRESHOLD IS TOO LOW.**

**PROCEDURE OR ACTION:**

1. Check calibration threshold at DSC. See **Calibration Procedures** 8000SRM1134.
   ***Does setting meet specifications for your lift truck?***
   **YES:** Go to Cause D.
   **NO:** Increase setting to specification or until operation is acceptable to operator.

**CAUSE D - STUCK SPOOL IN CONTROL VALVE.**

**PROCEDURE OR ACTION:**

1. Remove and inspect spool for contamination and damaged or broken components. See **Main Control Valve** 2000SRM1457.
   ***Is the spool clean, undamaged, and moves freely in bore?***
   **YES:** Go to Cause E.
   **NO:** Clean contaminated spool or replace Tilt or Auxiliary section. See **Main Control Valve** 2000SRM1457. **Resident Service Approval Required prior to control valve assembly replacement for Trucks under warranty.** Make sure to indicate an accurate problem description leading to the control valve assembly replacement.

**CAUSE E - TILT CONTROL SPOOL PISTON STICKING (TILT FORWARD ONLY)**

**PROCEDURE OR ACTION:**

1. Inspect tilt control piston. See **Main Control Valve** 2000SRM1457.
   ***Does piston move freely in bore and are the tilt spool orifices clean?***
   **YES:** Resume operation.
   **NO:** Clean spool or replace tilt section. See **Main Control Valve** 2000SRM1457.

---

**END SYMPTOM**



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*Table 1. Maintenance Schedule (Continued)*

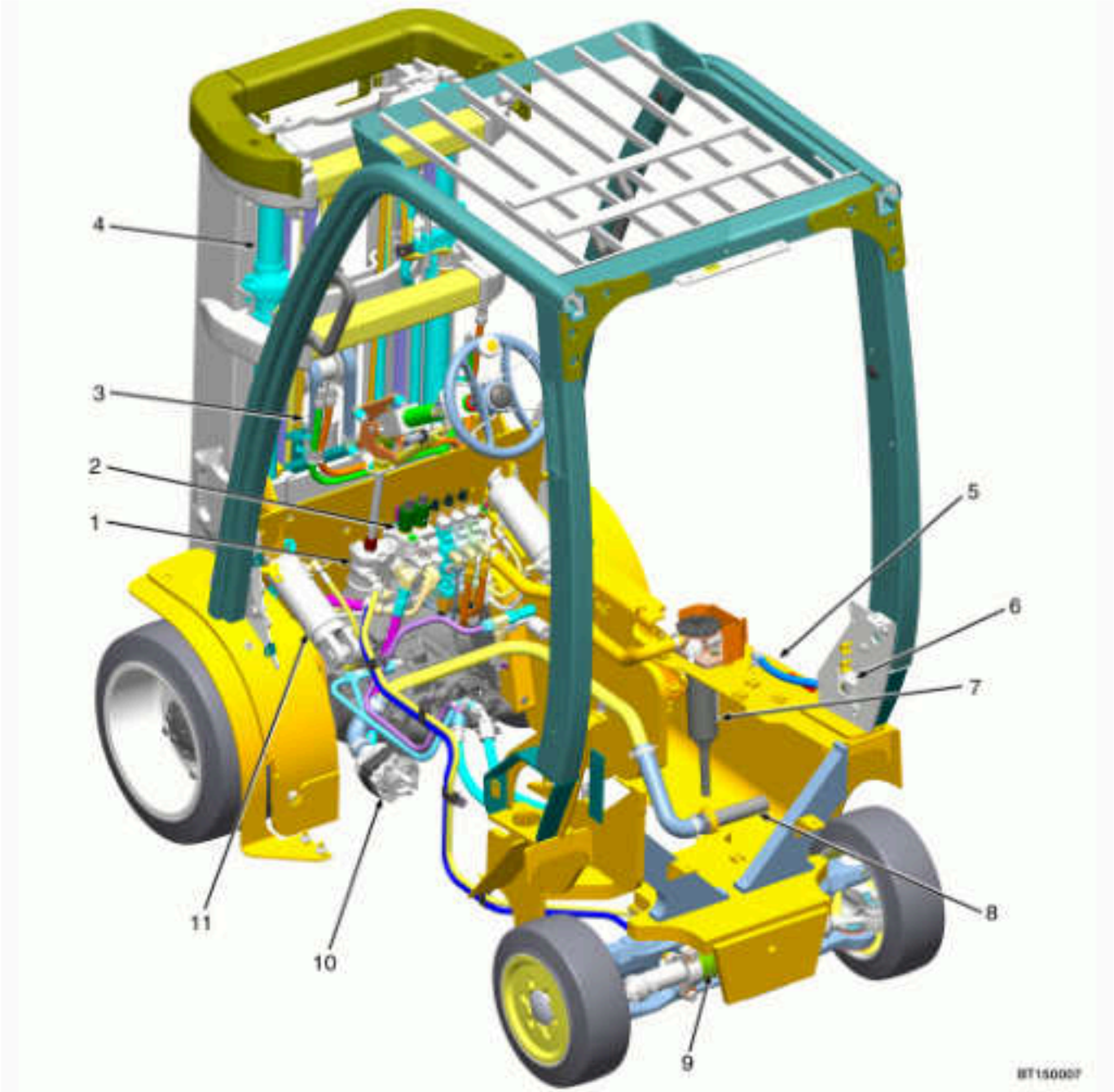
| Item No. | Item | 8 hr/ 1 day | 250 hr/ 6 mo | 500 hr/ 6 mo | 1000 hr/ 6 mo | 2000 hr/ 1 yr | 4000 hr/ 2 yr | Procedure or Quantity | Specification |
|---|---|---|---|---|---|---|---|---|---|
| **NOTE 10:** Lubricate if dry or at first sign of visible surface rust. | | | | | | | | | |
| **NOTE 11:** Do not open the air filter canister except to change the air filter element. See Maintenance Procedures Every 2000 Hours or Annually to change air filter element. | | | | | | | | | |
| **NOTE 12:** Replace after 3000 hours. Use hour interval only. | | | | | | | | | |
| **NOTE 13:** Use Ethylene Glycol Boron-free Antifreeze. Purchase a pre-diluted 50/50 solution; or mix 50% concentrate with 50% distilled water or deionized water. | | | | | | | | | |
| **NOTE 14:** Service Diesel Particulate Filter every 3000 hours. See Hyster dealer. Use hour interval only. | | | | | | | | | |
| **NOTE 15:** For lift trucks equipped with a Hang On Sideshift Carriage (with or without Fork Positioner) see Maintenance Procedures Every 500 hours or 6 months, Mast Lubrication section, in this manual. | | | | | | | | | |
| **NOTE 16:** Hydraulic oil sampling and analysis is a recommended practice. See **Hydraulic Cleanliness Procedures** 1900SRM1620 for oil cleanliness and water content guidelines. For lift trucks operating in heavy duty applications or highly contaminated environments, take oil samples every 500 hours. Normal Operating conditions may allow for less frequent oil sampling. Oil sampling should be done just prior to all oil and filter changes. | | | | | | | | | |
| X=Check C=Change L=Lubricate CIL=Check Indicator Light during operation | | | | | | | | | |

*Table 2. Diesel Fuel and Lube Chart*

| Engine Oil Specification by Diesel Fuel Type | | | | |
|---|---|---|---|---|
| Engine | Diesel Fuel Type | | | Engine Oil Viscosity based on ambient temperature |
| | WWFC Diesel Category 1 500ppm<Sulfur<5000ppm | WWFC Diesel Category 2 15ppm<Sulfur<500ppm | WWFC Diesel Category 4 ASTM D975 No.2 D S15 Sulfur<15ppm | |
| 3.6L T3 | API CF | API CF or Better | API CF or better | -15°C (5°F) and above 15W-40 -25°C (-13°F) and above 10W30 Below -25°C (-13°F) 5W-30 |
| 3.8L IT4 w/o DPF | NA | API CF or CI-4 | API CF or CI-4 | |
| 3.8L w/DPF | NA | NA | API CJ-4 | |



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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 (1.0-5.5 Ton Shown)***



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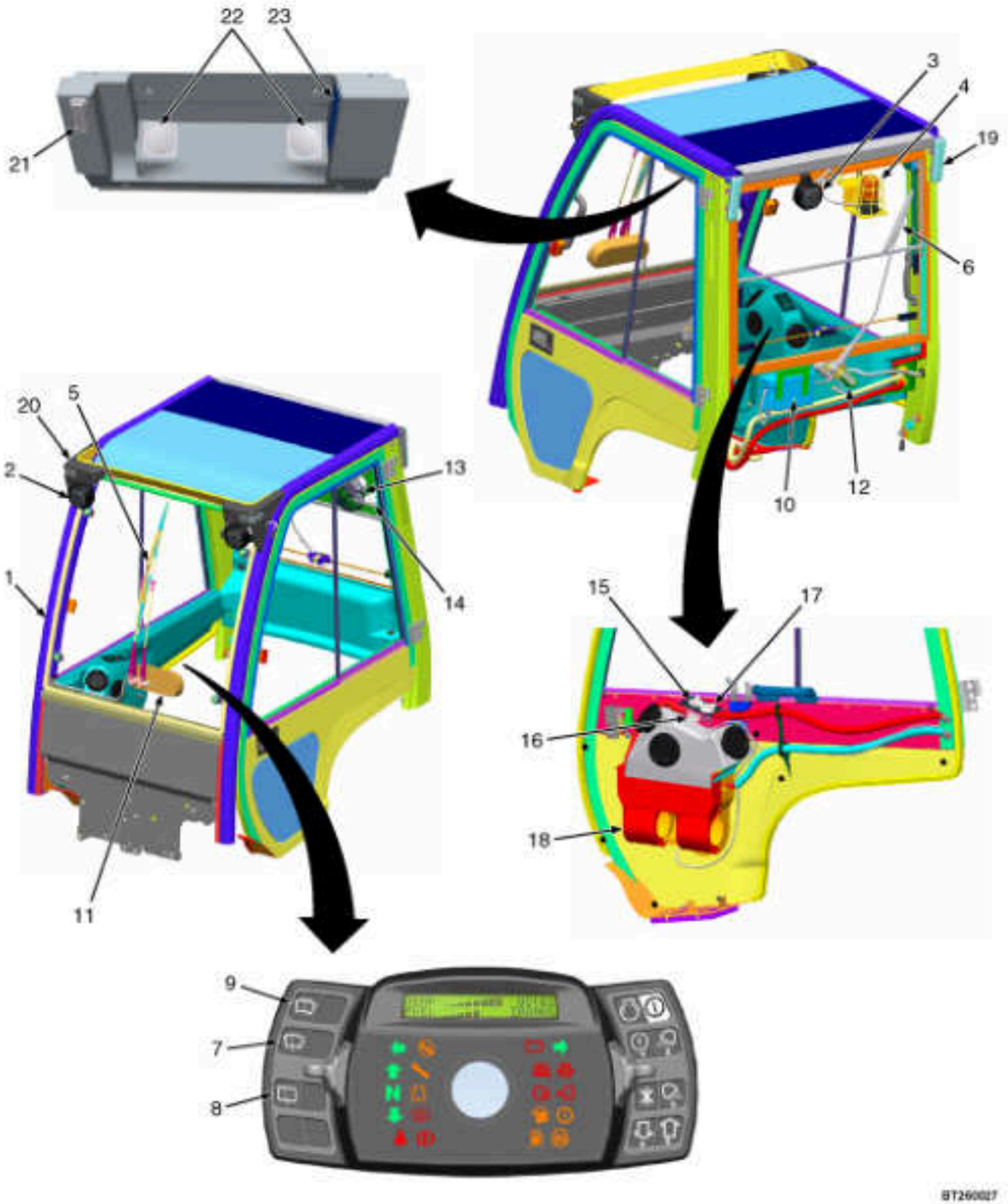



*Figure 9060-10-25. Cab Component Locations*



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