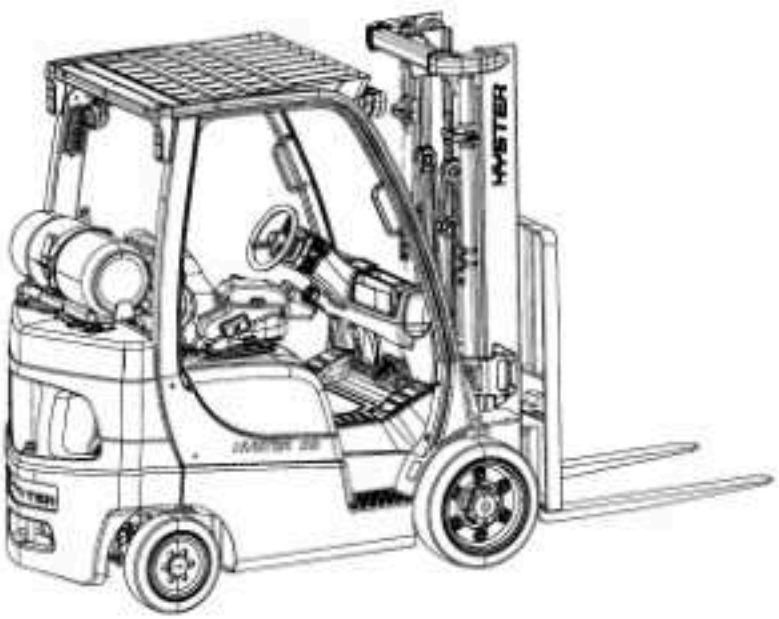
SERVICE MANUAL

F187 (S40-70FT, S55FTS)



FORM 1580501 Rev. 06/14

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This section is for the following models:

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Intermittent Activation While Commanding Function

POSSIBLE CAUSE
A. PPRV STUCK OPEN.
B. STUCK SPOOL IN CONTROL VALVE.

CAUSE A - PPRV STUCK OPEN.

PROCEDURE OR ACTION:

1. Perform pilot pressure test. See PPRV Pilot Pressure Test.
   Does pilot pressure meet specifications for your lift truck?
   YES: Go to Cause B.
   NO: Remove and clean PPRV. See **Main Control Valve** 2000SRM1457.

CAUSE B - 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: Resume operation.
   NO: Clean contaminated spool or replace lift 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.

END SYMPTOM

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TWO-STAGE LFL AND TWO-STAGE FFL MAST

Assemble

WARNING

The mast is heavy. The mast can weigh approximately 907 kg (2000 lb). Make sure all lifting devices (hoists, cables, chains, slings, etc.) are suitable and of adequate capacity to lift the mast.

NOTE: The shims for the load rollers keep the mast weldments parallel and give correct clearance. During assembly, the shim arrangement will be approximately the same as before disassembly. Check the clearance and adjust the shims for wear or for changes caused by repairs. The strip bearings are also adjusted by using shims. See Carriage Adjustments in this section for the adjustment procedures.

NOTE: When the mast has header hoses, see the procedures for Header Hose Arrangement.

1. Connect a crane with a capacity of at least 907 kg (2000 lb) to the center of the inner mast. Fit the stub shafts through the notches in the outer mast. Slide the inner mast into the outer mast so the stub shafts are seen at the top and bottom of the weldments.

   See Figure 31 for lift truck models
   - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
   - H2.0-3.5FT (H40-70FT) (L177)
   - J2.00-3.20XM (J40-65Z (B416)
   - E2.00-3.20XM (E45-65Z) (G108)

   See Figure 32 for lift truck models
   - S30FT, S35FT, S40FTS (E010)
   - E1.50-2.00XM (E25-35Z, E40ZS)(E114/F114)
   - J1.60-2.00XMT (J30-40ZT) (J160)
   - H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)

   See Figure 33 for lift truck models
   - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
   - H2.0-3.5FT (H40-70FT) (L177)
   - J2.00-3.20XM (J40-65Z) (B416)
   - E2.00-3.20XM (E45-65Z) (G108)

   See Figure 34 for lift truck models
   - S30FT, S35FT, S40FTS (E010
   - E1.50-2.00XM (E25-35Z, E40ZS) (E114/F114)
   - J1.60-2.00XMT (J30-40ZT) (J160)
   - H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)

2. Install the strip bearings and the shims on the outer mast. See Figure 41. Apply chassis lube to the bearing surface. Check the clearance of the strip bearings as described in Carriage Adjustments.

3. Install the load rollers and shims on both weldments. Check the clearance of the load rollers as described in Carriage Adjustments.

4. Install the housing for the lowering control valve on the outer mast. Tighten the nuts for the lowering control valve to 18 N·m (13 lbf ft). Install the lowering control valve in the housing. Connect the hydraulic lines and fittings between the housing and the main lift cylinders.

5. Install new tilt rod bushing into outer mast. See Figure 42.

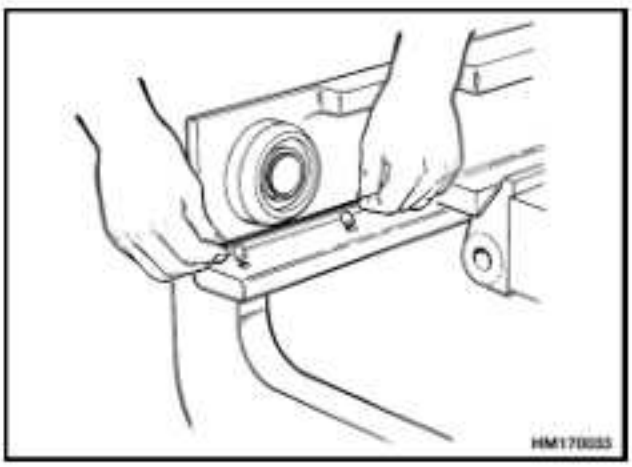


Figure 41. Strip Bearings

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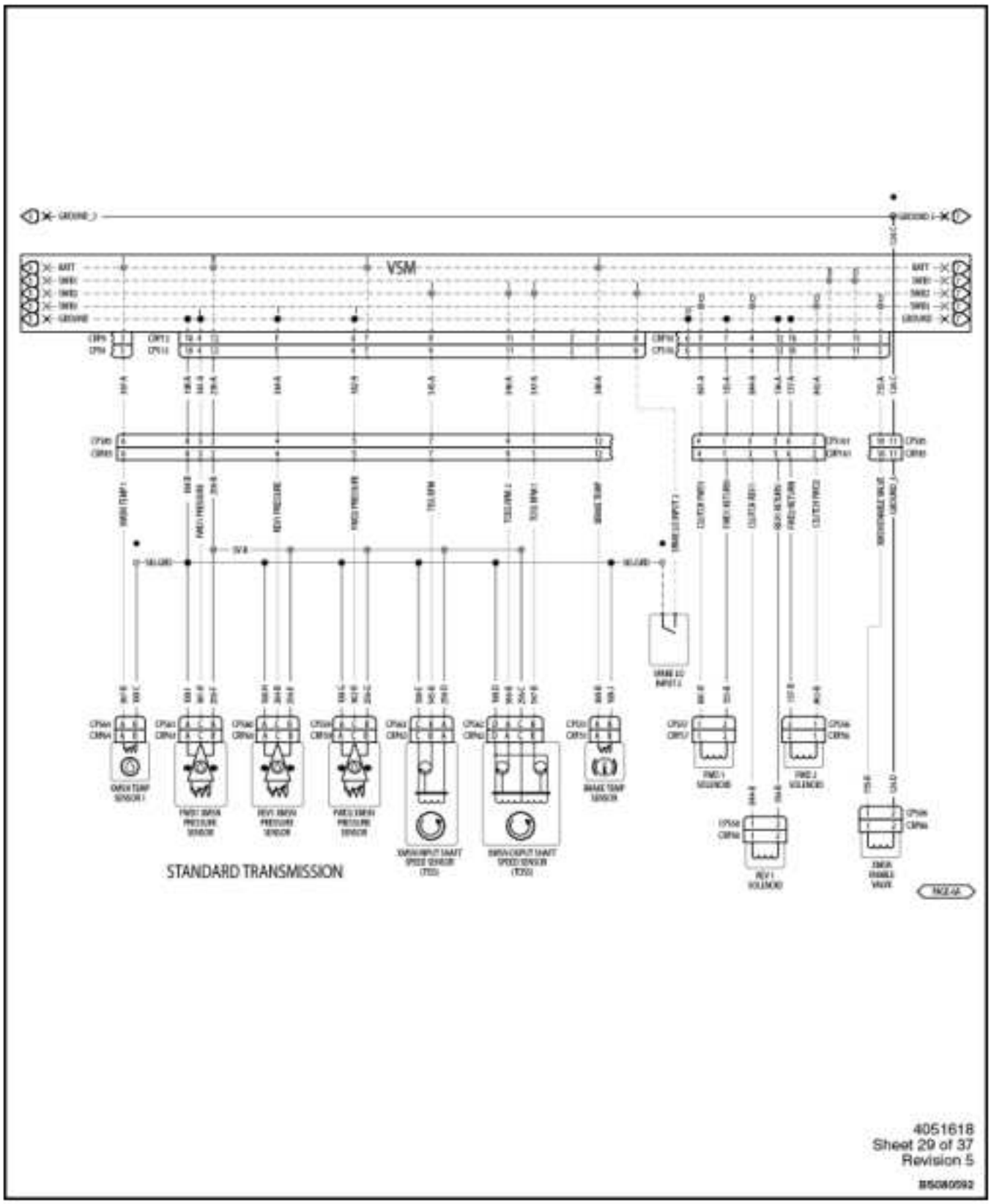
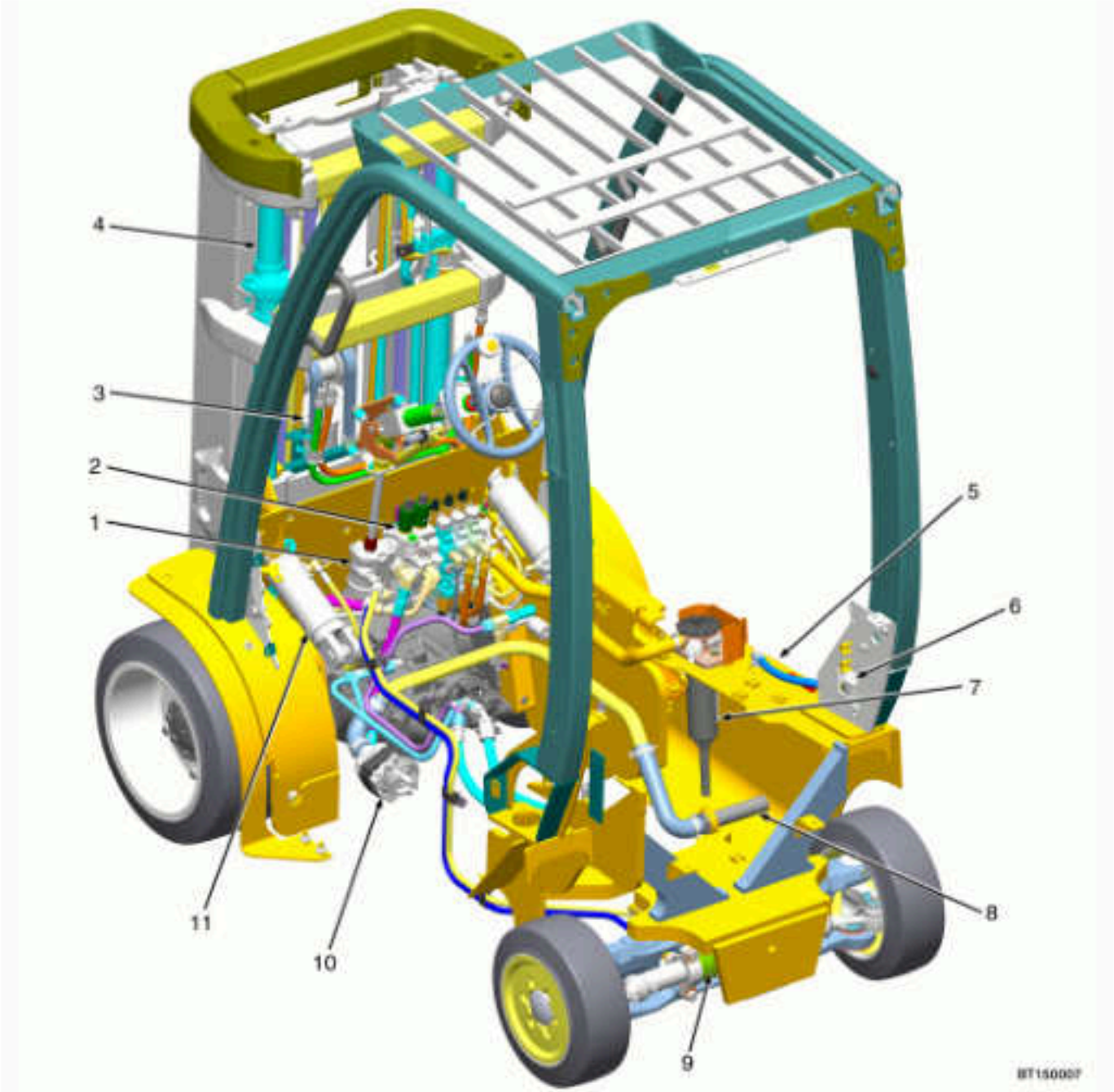


Figure 18. Standard (Powershift) Transmission Electrical Schematic

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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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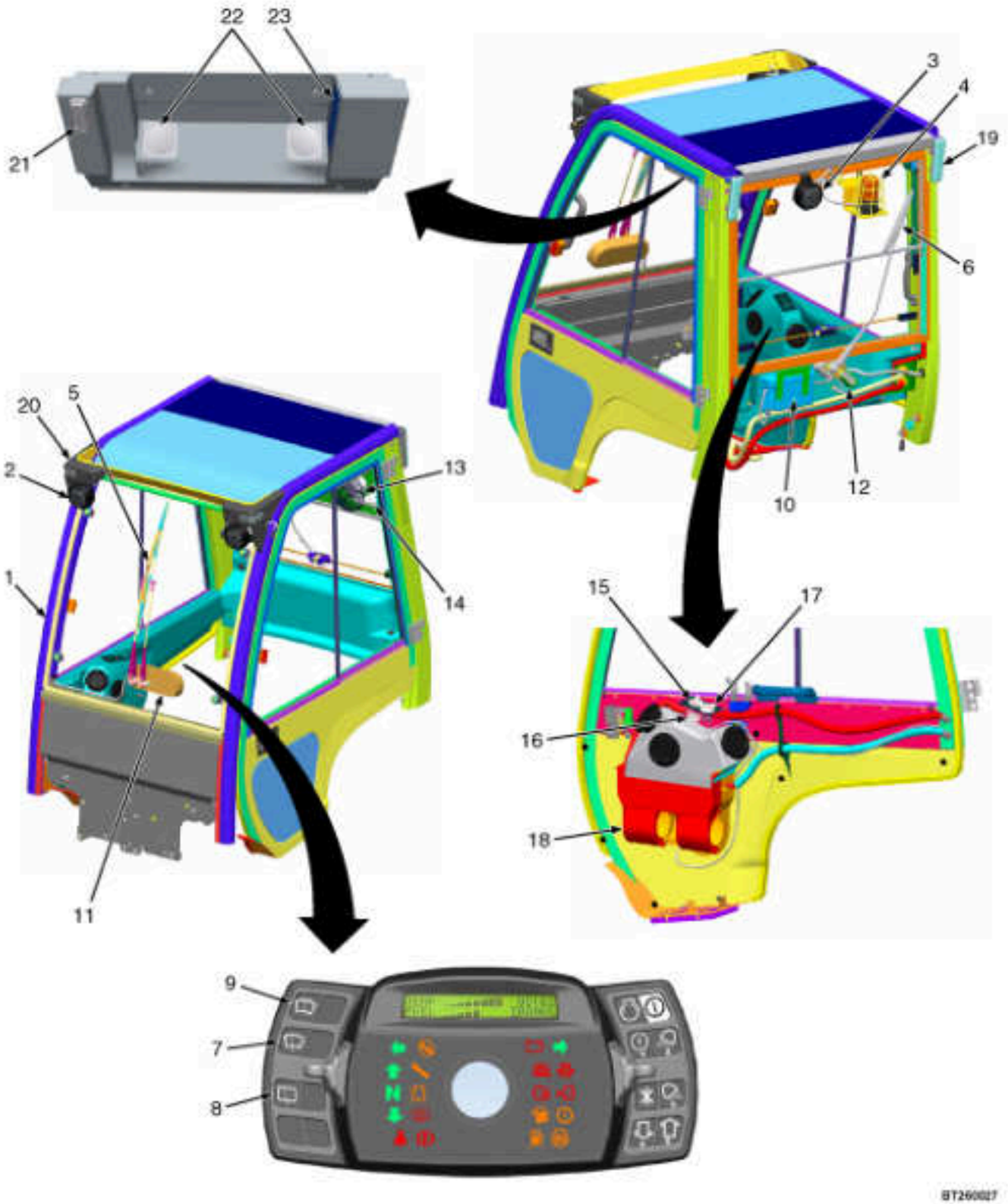


Figure 9060-10-25. Cab Component Locations

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