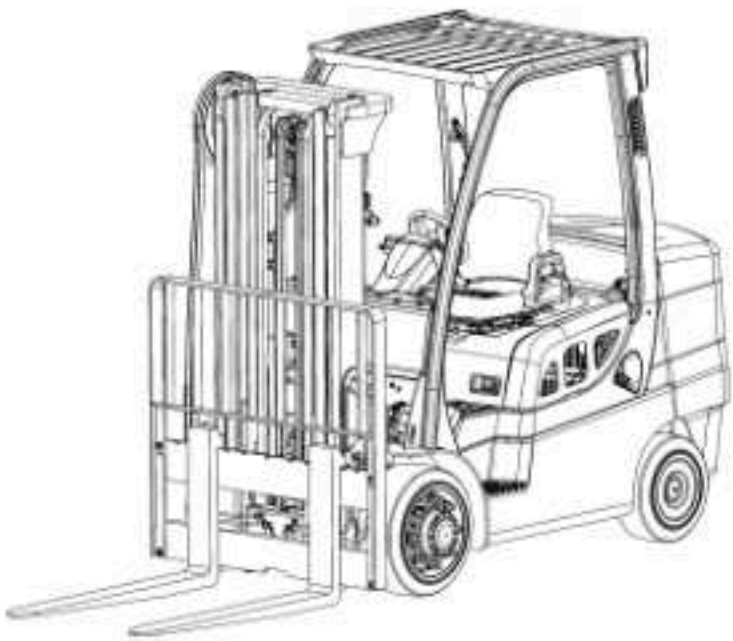
SERVICE MANUAL

G004 (S80FT-120FT, S80-100FTBCS, S120FTS, S120FTPRS)



FORM 1624735 Rev. 06/14

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This section is for the following models:

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(Cont)

YES: Go to troubleshooting.
NO: The signal wire is shorted to ground. Locate and repair/replace shorted wire/connection. Refer to appropriate **Electrical System** manual, depending on lift truck model.

END POSSIBLE CAUSES

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Single Gear Pump Assembly Repair

REMOVE

WARNING

PUTTING THE LIFT TRUCK ON BLOCKS

The lift truck must be put on blocks for some types of maintenance and repair. The removal of the following assemblies will cause large changes in the center of gravity: mast, drive axle, engine, transmission, and counterweight. When the lift truck is put on blocks, put additional blocks in the following positions to maintain stability:

- **Before removing the mast and drive axle, put blocks under the counterweight so the lift truck cannot fall backward.**
- **Before removing the counterweight, put blocks under the mast assembly so the lift truck cannot fall forward.**

The surface must be solid, even, and level when the lift truck is put on blocks. Make sure any blocks used to support the lift truck are solid, one-piece units.

NOTE: Worn or damaged seals are the most common cause of pump damage. The pump bushings, gears, and shafts also wear. They must be checked during disassembly. DO NOT make any repairs to the parts. To prevent more failures, always replace parts that are worn or damaged. If several main parts need replacing, replace the complete group.

1. Put the lift truck on blocks. See the **Operating Manual** or the **Periodic Maintenance Manual** for your lift truck for the procedures to put the lift truck on blocks.

2. Place a drain pan under the hydraulic tank, remove drain plug at the bottom of hydraulic oil tank, and drain oil from tank.

   a. Drain pan capacity approximately 30 liter (8 gal) for lift truck models
      - S30FT, S35FT, S40FTS (E010)
      - H1.6FT, H1.8FT, 2.0FTS (H30FT, H35FT, H40FTS) (F001)
      - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
      - S50CT (A267)
      - H2.0-3.5FT (H40-70FT) (L177)
      - H2.0-2.5CT (H50CT) (A274)

   NOTE: For lift trucks equipped with dual hydraulic tanks, place a second drain pan with same capacity under opposite hydraulic tank.

   b. Drain pan capacity approximately 40 liter (11 gal) for lift truck model
      - S4.0, 4.5, 5.5FT, S5.5FTS, (S80, 100, 120FT; S80, 100FTBCS; S120FTS; S120FTPRS) (G004, H004)

   c. Drain pan capacity approximately 51 liter (13.5 gal) for lift truck model
      - H4.0FT5/FT6; H4.5FTS5, H4.5FT6; H5.0-5.5FT (H80, 90, 100, 110, 120FT) (N005, P005, R005, S005)

NOTE: Perform Step 3 and Step 4 for lift trucks equipped with an iron transmission housing.

3. Put a drain pan under the pump assembly. Disconnect all hydraulic lines connected to the pump assembly. Remove the pump outlet fitting and suction adapter. Put caps on all the hose fittings and hydraulic pump ports.

   See Figure 1 for lift truck models
   - S30FT, S35FT, S40FTS (E010)
   - H1.6FT, H1.8FT, 2.0FTS (H30FT, H35FT, H40FTS) (F001)
   - (S40-70FT, S55FTS) (F187)
   - H2.0-3.5FT (H40-70FT) (L177)

   See Figure 2 for lift truck models
   - 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 3 for lift truck model
   - S4.0, 4.5, 5.5FT, S5.5FTS, (S80, 100, 120FT; S80, 100FTBCS; S120FTS; S120FTPRS) (H004) equipped with dual hydraulic tanks.

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Diagrams and Schematics

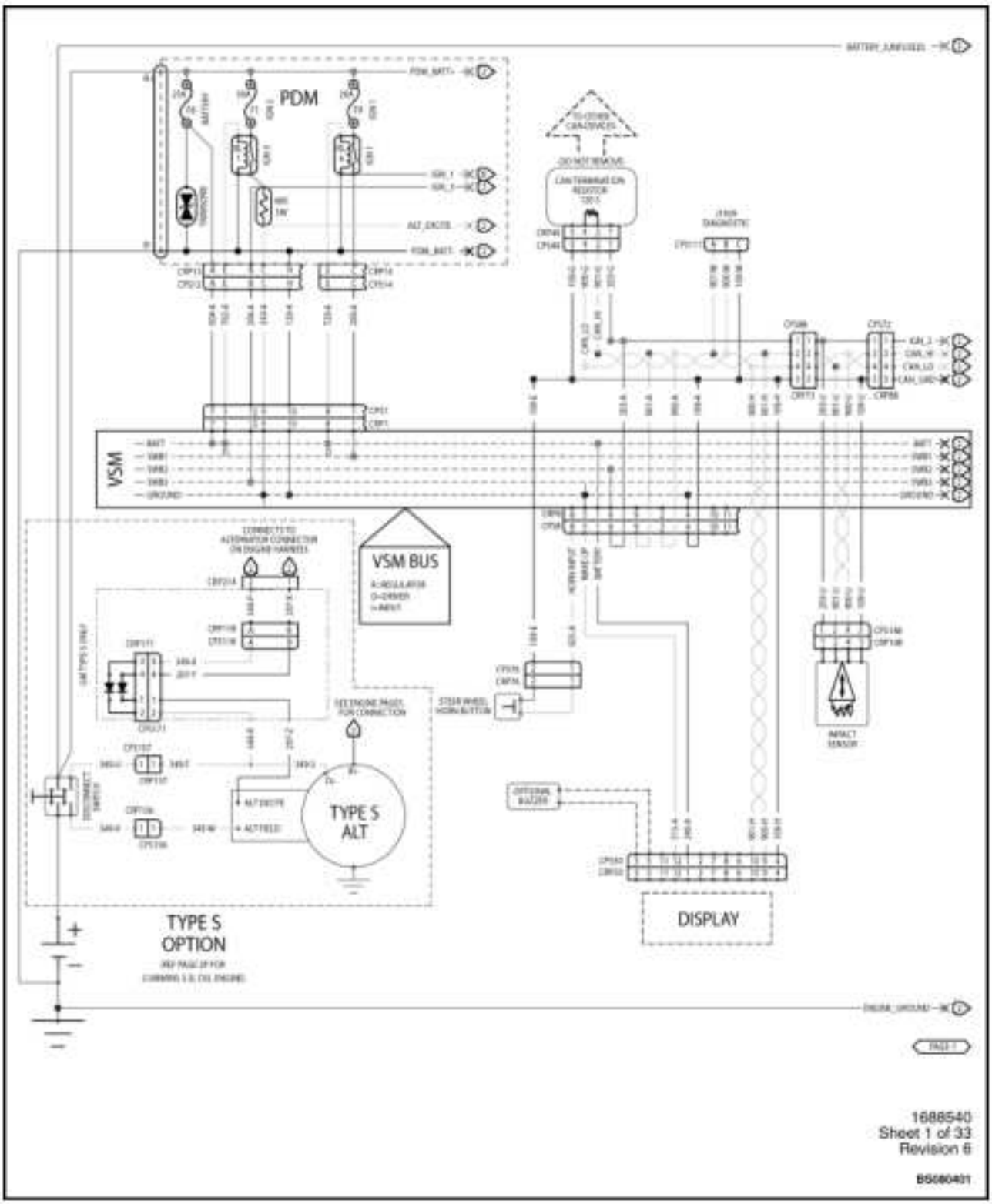
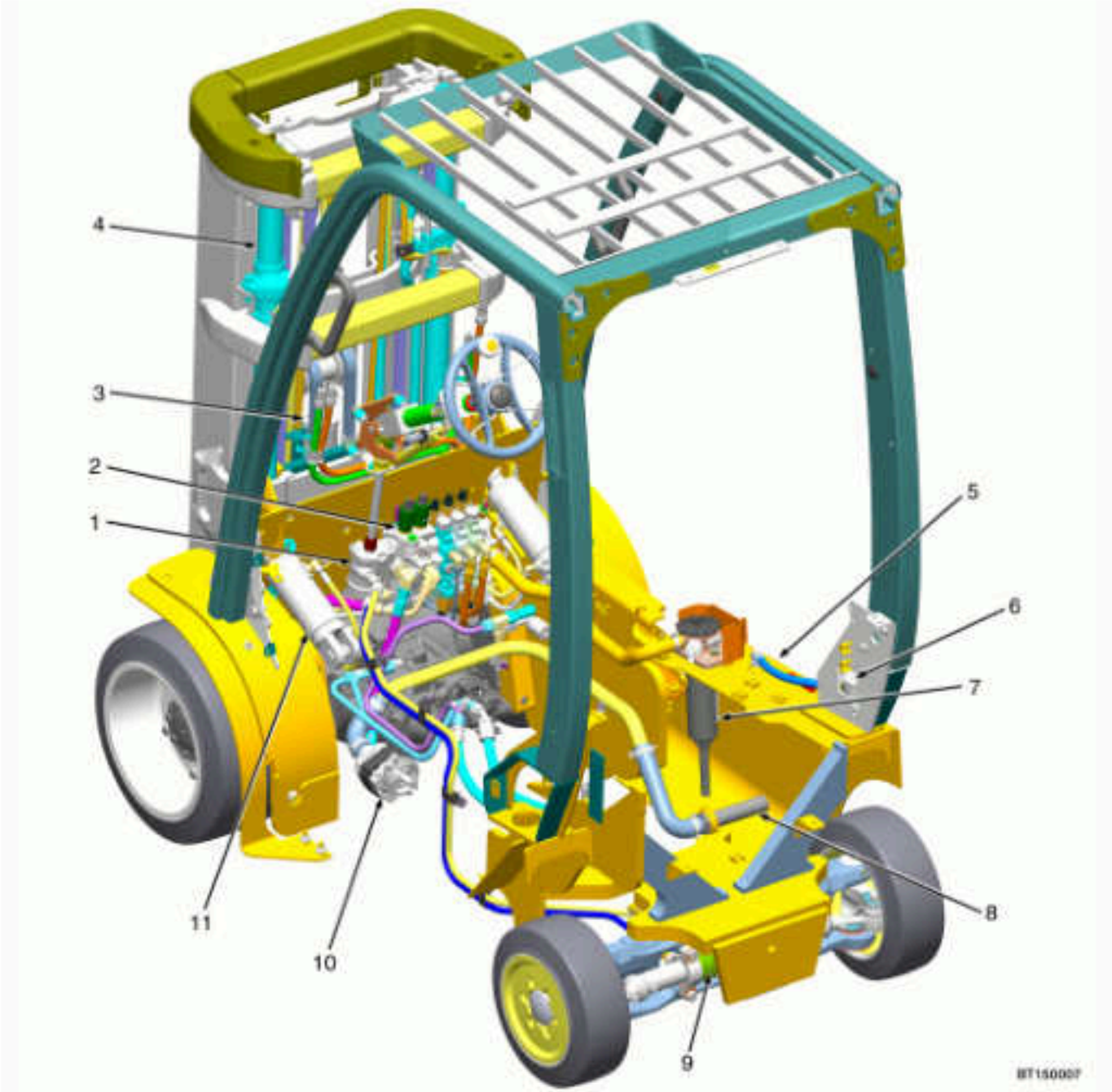


Figure 1. Type S Option Electrical Schematic

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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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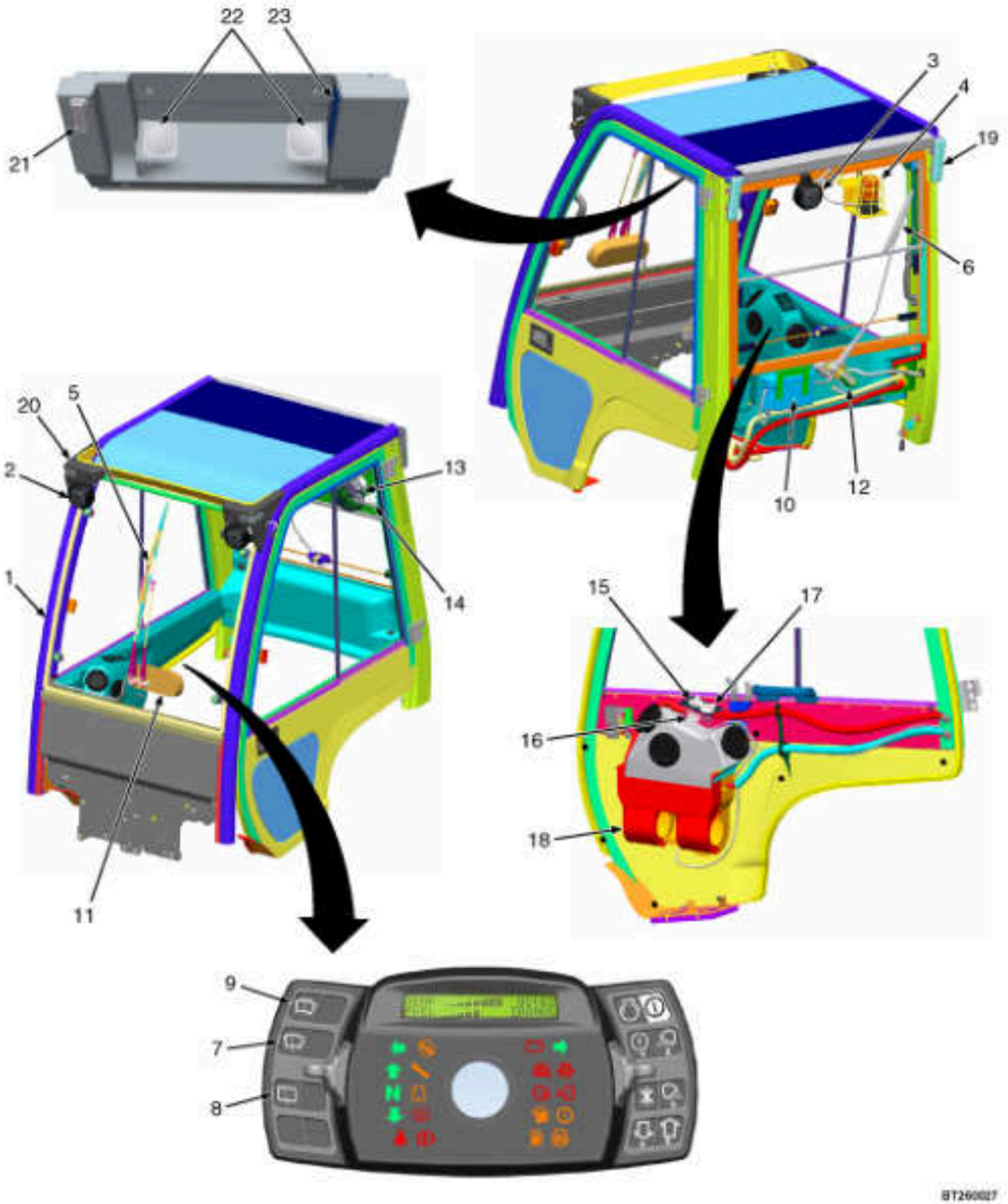


Figure 9060-10-25. Cab Component Locations

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