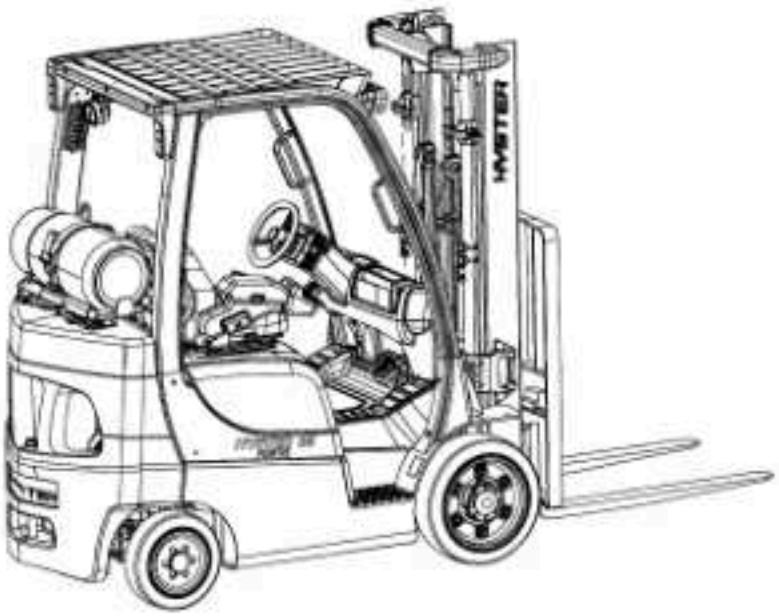
SERVICE MANUAL

E010 (S30FT, S35FT, S40FTS)



FORM 1598581 Rev. 04/14

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This section is for the following models:

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Tilt Forward Will Not Function When Activated (Manual Valve)

POSSIBLE CAUSE

A. TILT CONTROL VALVE IS STUCK IN CLOSED POSITION.

B. TILT CONTROL VALVE EXHAUST HOLES PLUGGED IN VALVE.

CAUSE A - TILT CONTROL VALVE IS STUCK IN CLOSED POSITION.

PROCEDURE OR ACTION:

1. Inspect tilt control valve and exhaust orifices. See **Main Control Valve** 2000SRM1137.
   Does the control valve piston move freely and are exhaust orifices open?
   YES: Go to Cause B.
   NO: Clean or replace tilt control valve spool.

CAUSE B - TILT CONTROL VALVE EXHAUST HOLES PLUGGED IN VALVE.

PROCEDURE OR ACTION:

1. Inspect valve section. See **Main Control Valve** 2000SRM1137.
   Are exhaust holes open?
   YES: Valve is OK. See Observed Symptoms-Gear Pump, Auxiliary Function is Slow or Does Not Function (Manual Valve), Page 9050-33-11.
   NO: Clean or replace valve.

END SYMPTOM

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13. Connect the wires and wiring harnesses at the engine. Remove caps from fuel lines and connect the fuel lines at the engine.

NOTE: On trucks equipped with the GM 2.4L engine, connect the ECM and install ECM and mounting bracket to air filter with two bolts, before installing the air filter to lift truck.

14. On lift trucks equipped with a Mazda engine (except Mazda 2007, and later, emission compliant engines) and Basic Powershift Transmission, connect the throttle linkage (see the section **Powershift Transmission, Repair** 1300 SRM 1129). Install the air filter assembly.

15. Connect the coolant hoses and lines to the transmission. Fill cooling system with a mixture of 50 percent deionized water and 50 percent ethylene glycol boron-free antifreeze.

16. Install the radiator shroud, fan pulley, and fan assembly. See the section **Cooling System** 700 SRM 1123 for the installation procedures.

17. Connect the PDM and connect the ground strap to lift truck frame and attach it to battery. Install the battery and battery tray. See Figure 23.

18. If lift truck is equipped with an LPG tank, swing tank into position on truck. See one of the following **Service Manuals** for procedures:

    LPG Fuel System, GM 2.4L Engine 900 SRM 1124 for lift truck models
    - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
    - H2.0-3.5FT (H40-70FT) (L177)

    LPG Fuel System, Mazda 2.0L and 2.2L Engines 900 SRM 1125 for lift truck models
    - S30FT, S35FT, S40FTS (E010)
    - H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)
    - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
    - H2.0-3.5FT (H40-70FT) (L177)

    LPG Fuel System, Mazda 2.0L and 2.2L Emission Compliant Engines 900 SRM 1326 for lift truck models
    - S30FT, S35FT, S40FTS (E010)
    - H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)
    - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
    - H2.0-3.5FT (H40-70FT) (L177)

19. Install the rear side covers, floor plates, floor mat, and hood and seat combination. See the section Hood, Seat, and Side Covers Replacement for the procedures.

20. If removed, install Overhead guard. See section Overhead Guard Replacement for procedures.

21. Check all fluid levels as described in the section

    Periodic Maintenance 8000 SRM 1150 for lift truck models
    - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
    - H2.0-3.5FT (H40-70FT) (L177)

    Periodic Maintenance 8000 SRM 1207 for lift truck models
    - S30FT, S35FT, S40FTS (E010)
    - H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)

CAUTION

Disposal of lubricants and fluids must meet local environmental regulations.

22. Empty drain pan contents.

23. If lift truck is equipped with an LPG fuel tank, swing tank into position on back of counterweight and open shutoff valve on tank. See one of the following **Service Manuals**.

    LPG Fuel System, GM 2.4L Engine 900 SRM 1124 for lift truck models
    - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
    - H2.0-3.5FT (H40-70FT) (L177)

    LPG Fuel System, Mazda 2.0L and 2.2L Engines 900 SRM 1125 for lift truck models
    - S30FT, S35FT, S40FTS (E010)
    - H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)
    - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
    - H2.0-3.5FT (H40-70FT) (L177)

    LPG Fuel System, Mazda 2.0L and 2.2L Emission Compliant Engines 900 SRM 1326 for lift truck models
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    - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
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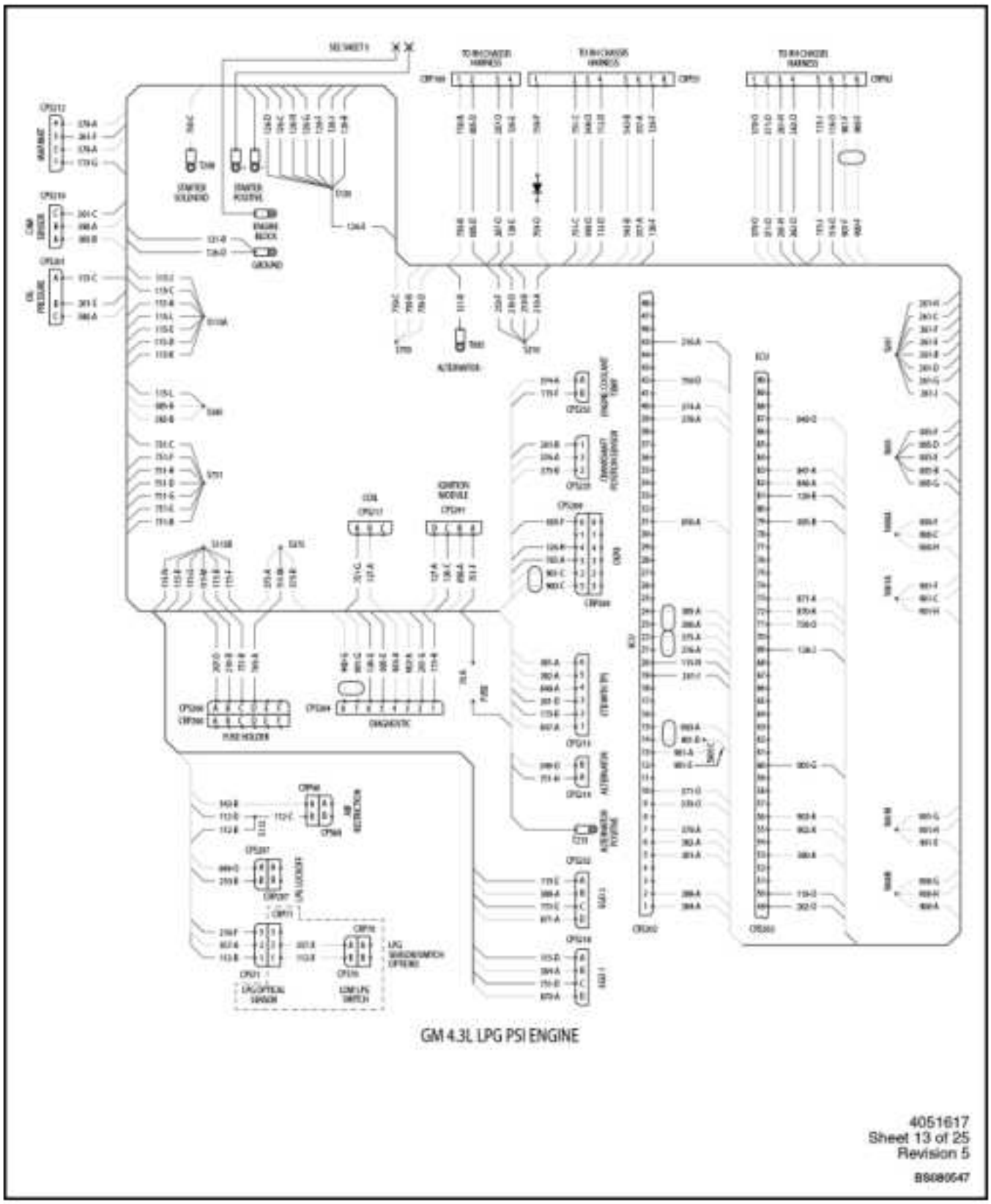
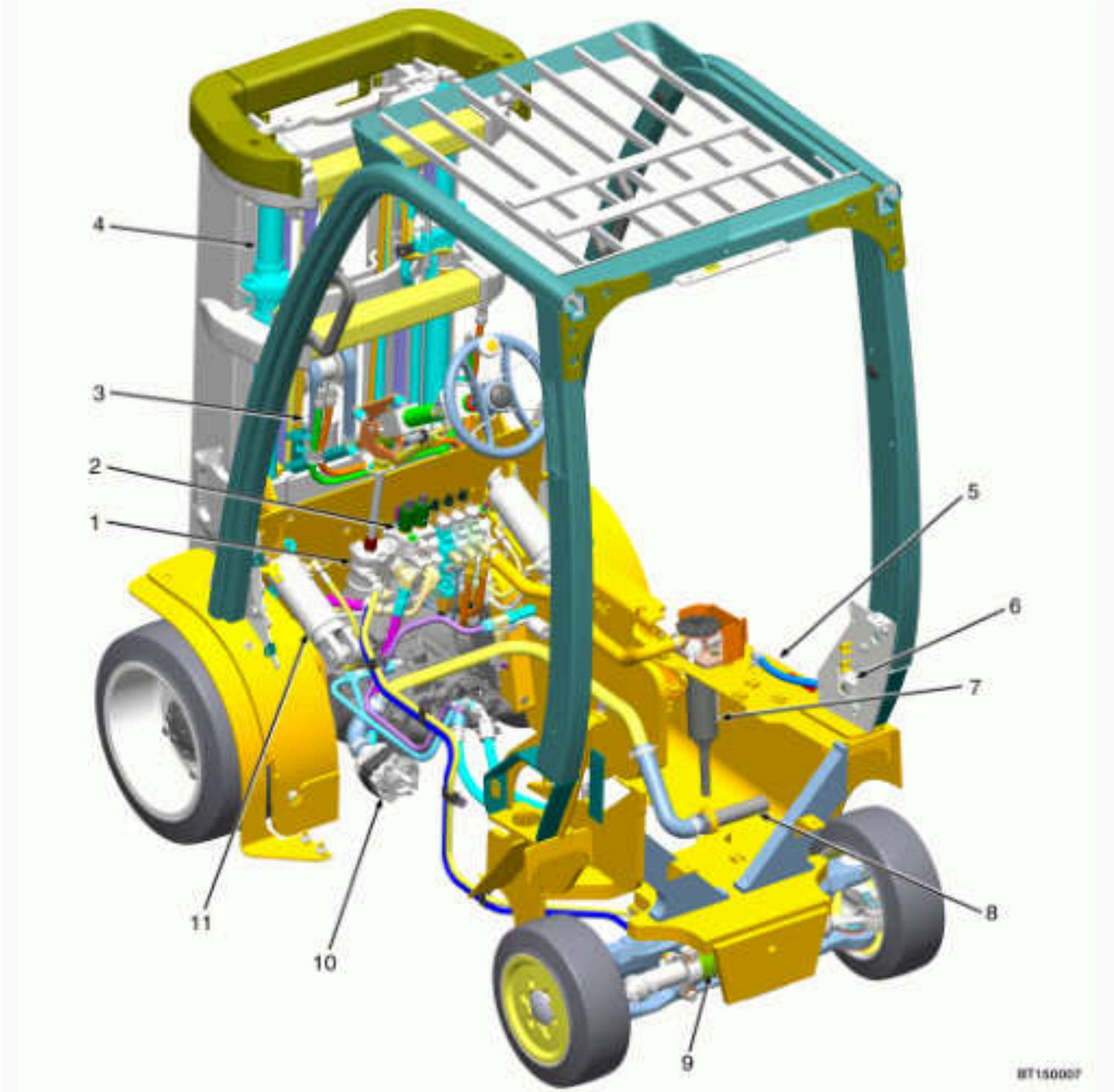


Figure 39. GM 4.3L LPG PSI Engine Wiring Diagram

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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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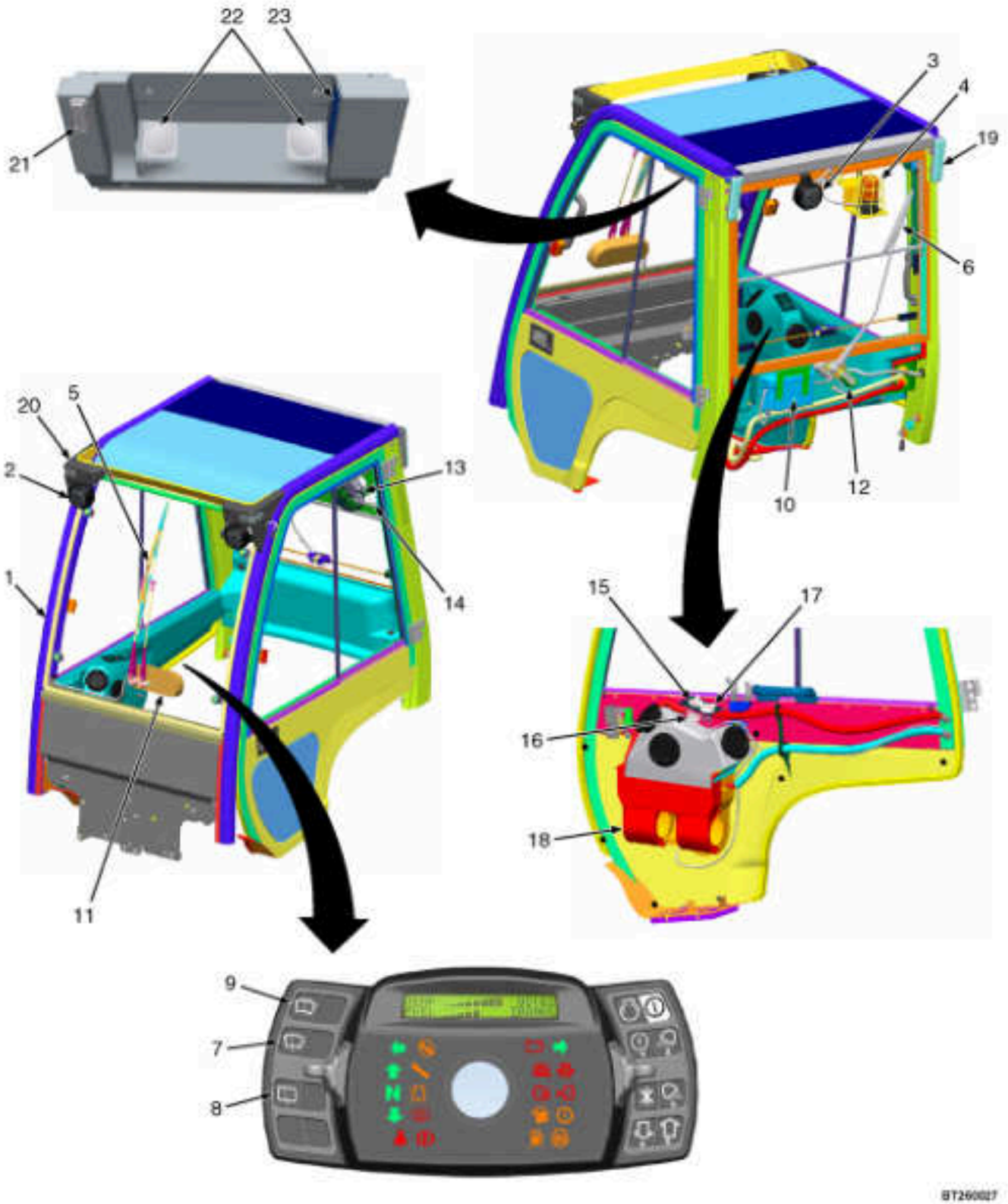


Figure 9060-10-25. Cab Component Locations

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