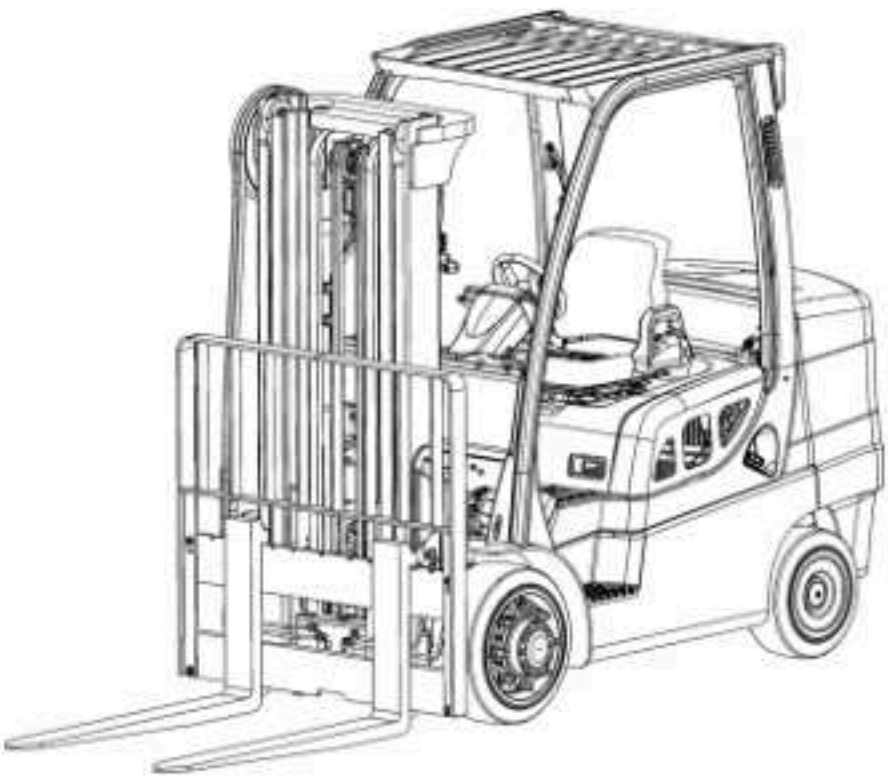
SERVICE MANUAL

H004 (S80-120FT, S80-100FTBCS, S120FTS, S120FTPRS)



Rev. 06/14

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This section is for the following models:

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Wrong Actuation Operates or Actuation is Backward (E-Valve)

POSSIBLE CAUSE

A. WIRING HARNESS INSTALLED WRONG.
B. HYDRAULIC HOSES INSTALLED WRONG.
C. WIRING HARNESS HAS FAILED.
D. MLM ASSEMBLED INCORRECTLY.

CAUSE A - WIRING HARNESS INSTALLED WRONG.

PROCEDURE OR ACTION:

WARNING

Unexpected movement of hydraulic function can cause injury or death. Do not operate the lift truck until problem has been repaired.

1. Inspect wiring harness. See **Electrical System** 2200SRM1142.
   Is harness installed correctly?
   YES: Go to Cause B.
   NO: Adjust or repair harness. See **Wire Harness Repair** 2200SRM1128.

CAUSE B - HYDRAULIC HOSES INSTALLED WRONG.

PROCEDURE OR ACTION:

1. Inspect hydraulic hose routing and correct as required. For proper hose routing, see Figure 9050-10-1. If problem is still present, go to Cause C.

CAUSE C - WIRING HARNESS HAS FAILED.

PROCEDURE OR ACTION:

1. Inspect harness for shorts.
   Does harness have a short?
   YES: Repair wiring harness. See **Wire Harness Repair** 2200SRM1128.
   NO: Go to Cause D.

CAUSE D - MLM ASSEMBLED INCORRECTLY.

PROCEDURE OR ACTION:

1. Check MLM for:
   - Lever rotated 180 degrees
   - Lever leads not connected to correct connector

   Is MLM assembled incorrectly?
   YES: Assemble MLM components correctly.
   NO: Perform operational check.

END SYMPTOM

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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)

7. Lean the radiator shroud back toward the radiator. Install the screws and washers and install the radiator shroud cover.

See Figure 29 for lift truck models below equipped with GM 2.4L, Yanmar 2.6L, Yanmar 3.0L 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 31 for lift truck models below equipped with Mazda 2.0L or 2.2L engines
- S2.0-3.5FT (S40-70FT, S55FTS) (F187)
- S50CT (A267)
- H2.0-2.5CT (H50CT) (A274)
- H2.0-3.5FT (H40-70FT) (L177)
- S30FT, S35FT, S40FTS (E010)
- H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)

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 36 for lift truck models below equipped with Cummins QSB 3.3L diesel engines
- S6.0FT, S7.0FT (S135FT, S155FT) (E024)
- H6.0FT, H7.0FT (H135FT, H155FT) (J006)
- H4.0FT5/FT6; H4.5FTS5, H4.5FT6; H5.0-5.5FT (H80, 90, 100, 110, 120FT) (P005)

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 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)

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)

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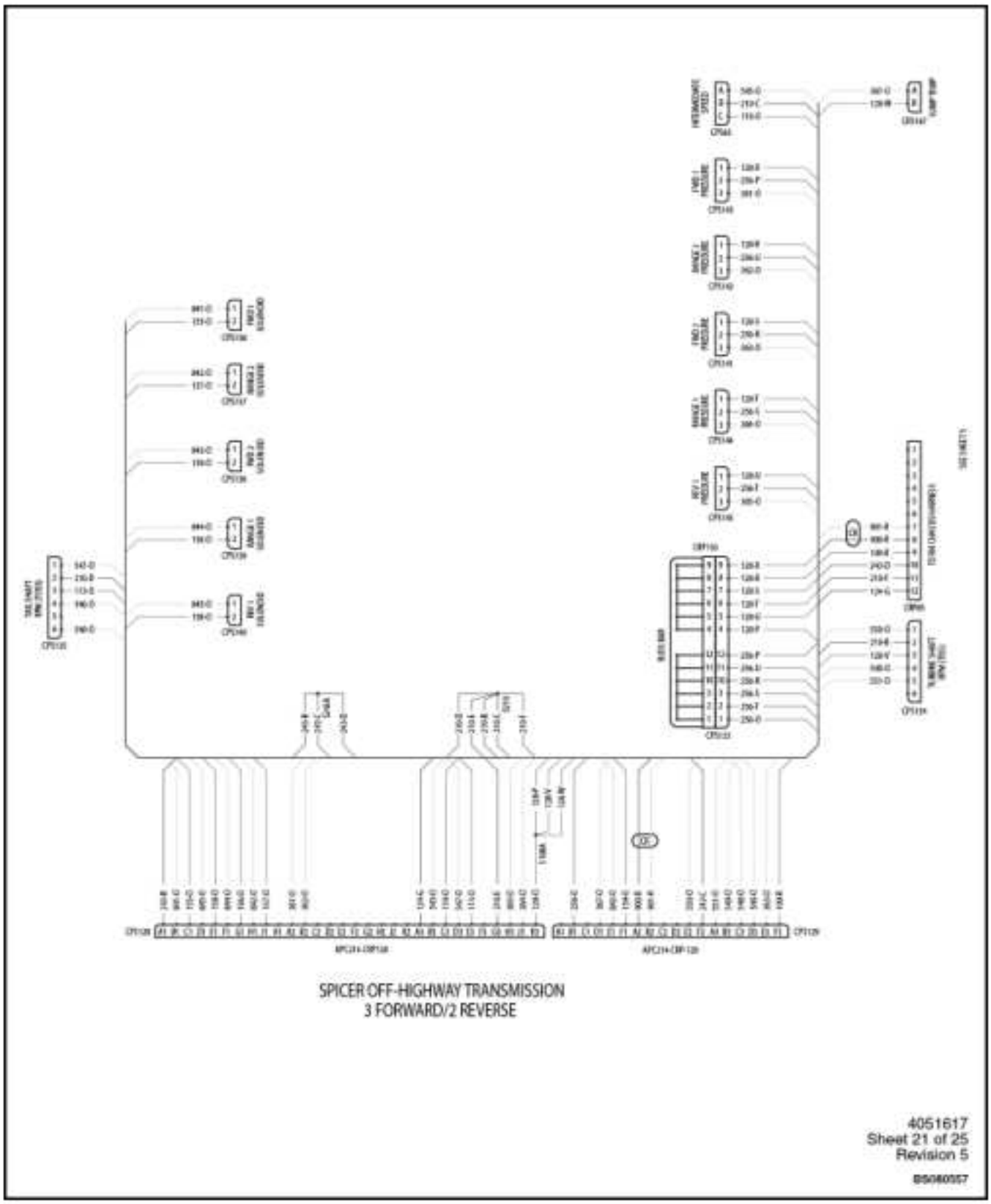
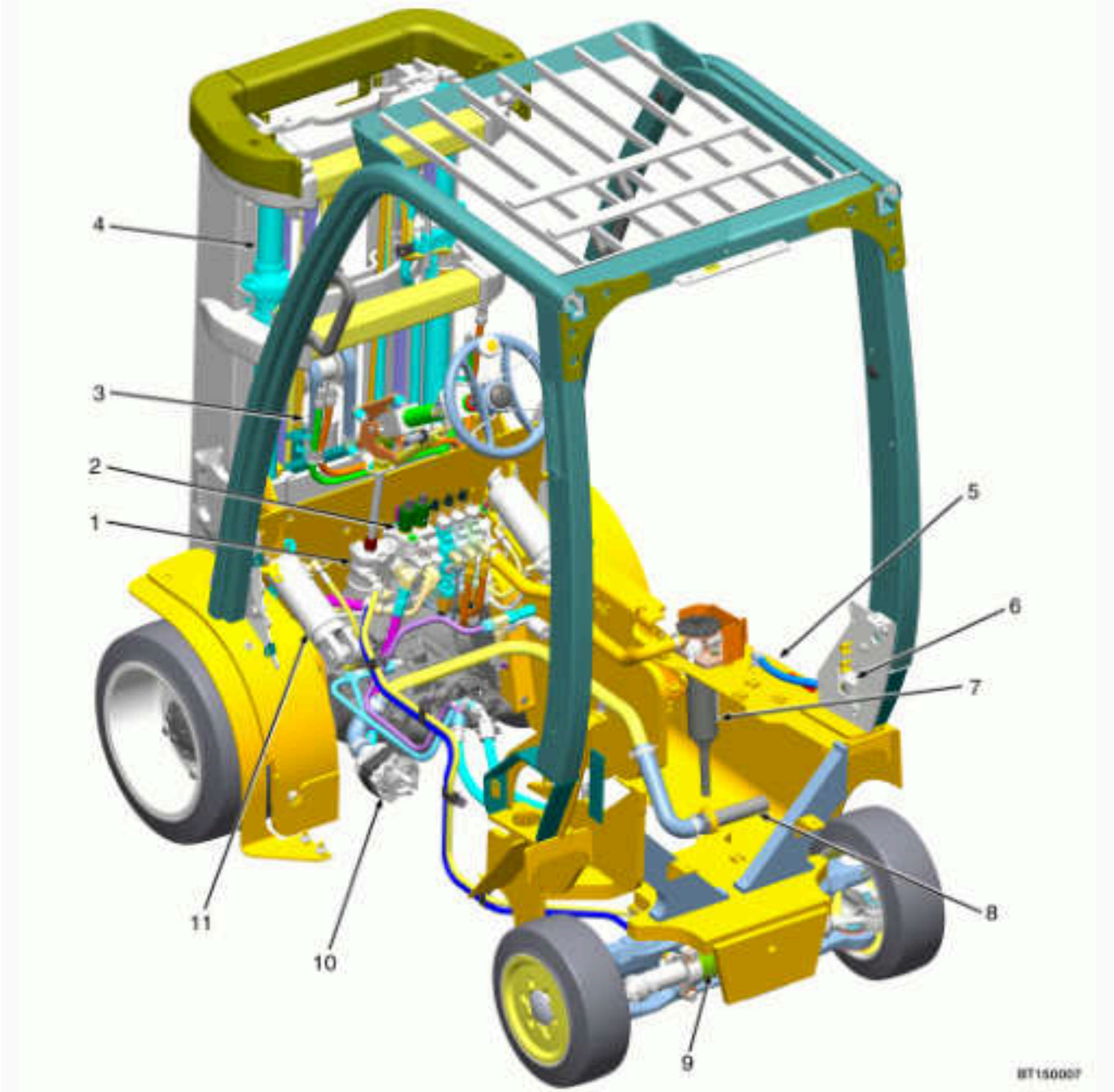


Figure 47. Spicer Off-Highway Transmission 3 Forward/2 Reverse Wiring Diagram

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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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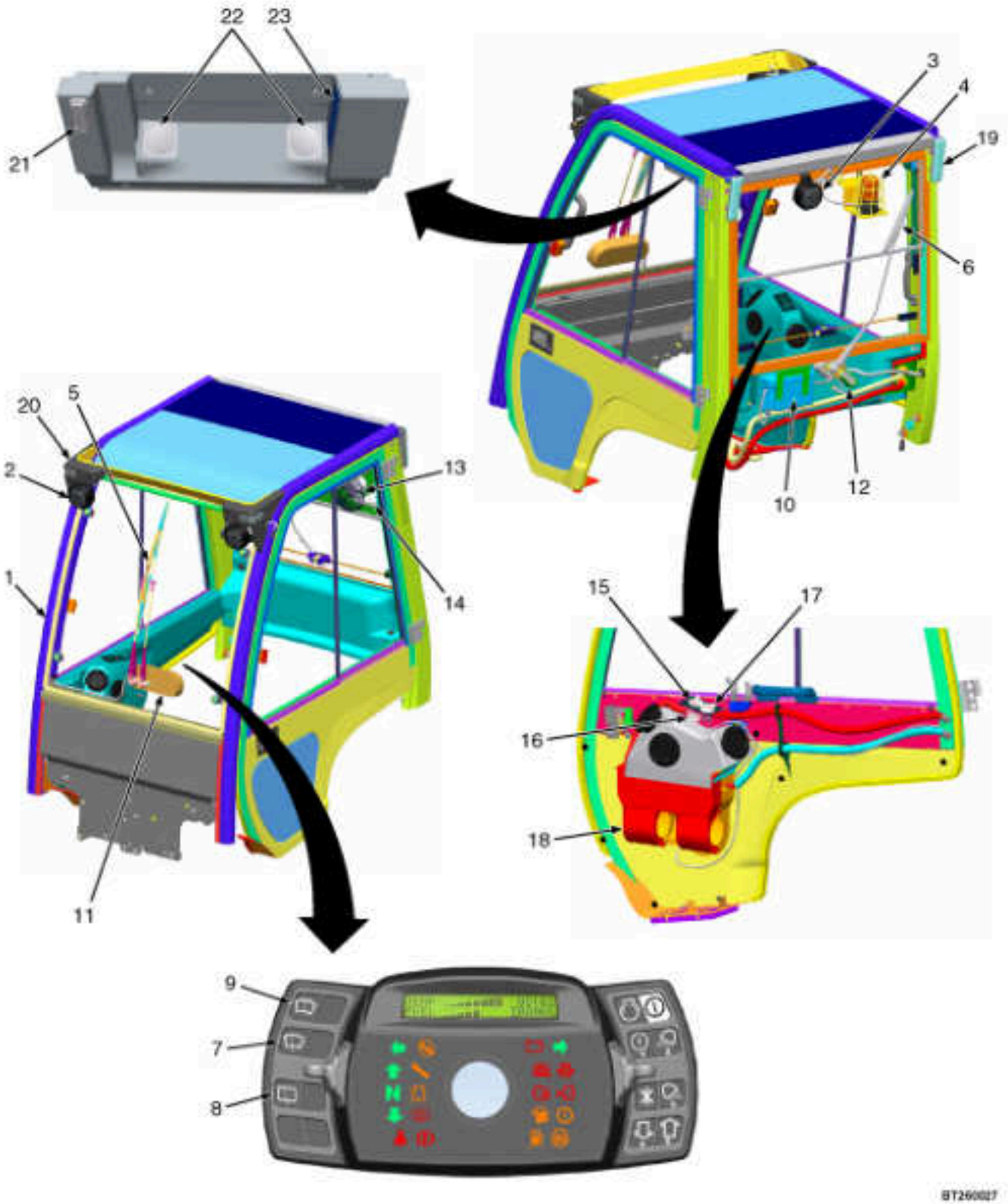


Figure 9060-10-25. Cab Component Locations

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