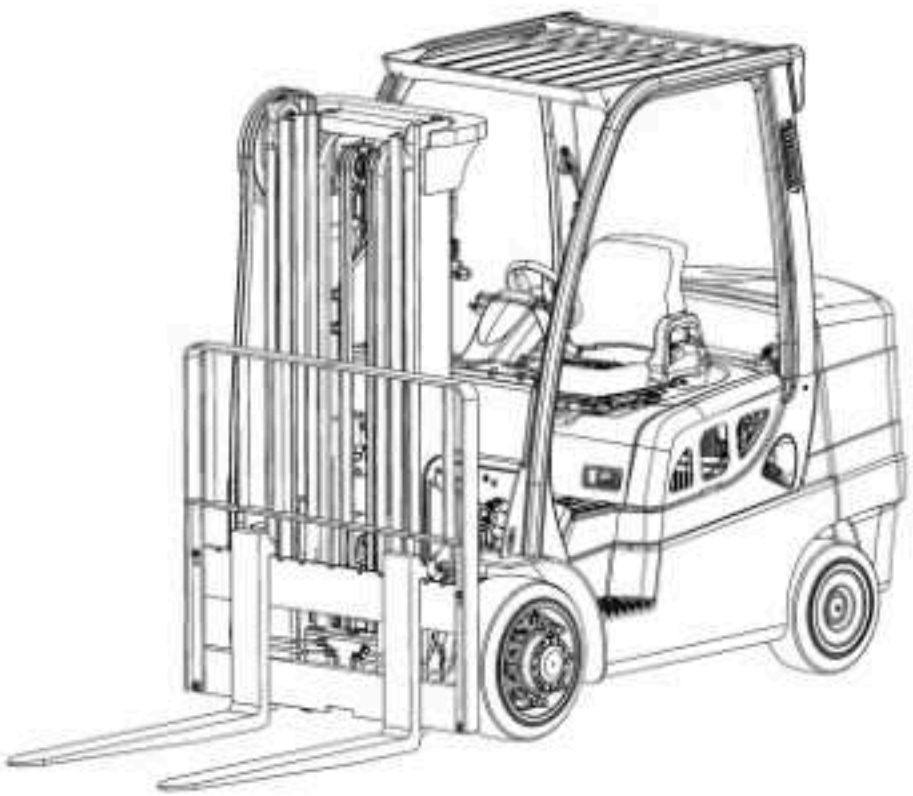
SERVICE MANUAL

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



FORM 1698675 Rev. 06/14

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This section is for the following models:

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Injector Driver Circuit Open

Injector Driver Circuit Is Open

CODES

DTC 651-3 - Injector 1 Open Circuit (Kubota)
DTC 651-5 - GM Gas Drive Injector 1 Open Circuit
DTC 651-5 - Cummins-Code 322. See QSB 3.3L Troubleshooting and Repair
DTC 652-3 - Injector 2 Open Circuit (Kubota)
DTC 652-5 - GM Gas Drive Injector 2 Open Circuit
DTC 652-5 - Cummins-Code 331. See QSB 3.3L Troubleshooting and Repair
DTC 653-3 - Injector 3 Open Circuit (Kubota)
DTC 653-5 - GM Gas Drive Injector 3 Open Circuit
DTC 653-5 - Cummins-Code 324. See QSB 3.3L Troubleshooting and Repair
DTC 654-3 - Injector 4 Open Circuit (Kubota)
DTC 654-5 - GM Gas Drive Injector 4 Open Circuit
DTC 654-5 - Cummins-Code 332. See QSB 3.3L Troubleshooting and Repair
DTC 655-5 - GM Gas Drive Injector 5 Open Circuit
DTC 656-5 - GM Gas Drive Injector 6 Open Circuit
DTC 1347-4 - SCV Internal Circuit Open Or Shorted To Ground
DTC 522721-5 - GM LPG Drive Injector 1 Current Low or Open Circuit
DTC 522722-5 - GM LPG Drive Injector 2 Current Low or Open Circuit
DTC 522723-5 - GM LPG Drive Injector 3 Current Low or Open Circuit
DTC 522724-5 - GM LPG Drive Injector 4 Current Low or Open Circuit
DTC 522725-5 - GM LPG Drive Injector 5 Current Low or Open Circuit
DTC 522726-5 - GM LPG Drive Injector 6 Current Low or Open Circuit
DTC 523523-2 - Common 1 Actuation Open Circuit
DTC 523524-2 - Common 2 Actuation Open Circuit
DTC 523574-3 - EGR Actuator Coil Open

POSSIBLE CAUSE

A. FUEL INJECTOR OPEN CIRCUIT
B. SUCTION CONTROL VALVE (SCV) OPEN CIRCUIT (KUBOTA ONLY)
C. SUCTION CONTROL VALVE (SCV) SHORTED TO GROUND (KUBOTA ONLY)
D. INJECTOR DRIVER MODULE FAILURE
E. FUNCTIONAL FAILURE IN CONTROLLER
F. BAD SUCTION CONTROL VALVE (SCV) (KUBOTA ONLY)
G. WIRING HARNESS SHORT

NOTE

Please refer to the end of this procedure for supporting diagrams.

COMPONENT OPERATIONAL CHECK

PROCEDURE OR ACTION:

NOTE: Watch for codes similar to 157-0, 633-7, 1347-3, 1347-7, 33023-0, 49407-0, 57599-0, 61695-0, and 63743-0.

1. Turn power to **OFF** for no less than 30 seconds, and then to **ON** to clear displayed DTC.
   Does reported DTC reoccur?

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LOAD WEIGHT SENSOR

Remove

1. To access the battery, remove the floor mat and floor plate, on lift truck models below. Disconnect the battery.
   - H6.0FT, H7.0FT (H135FT, H155FT) (H006, J006, K006)
   - H8.0FT, H8.0FT9, H9.0FT (H170FT, H175FT36, H190FT) (A299, B299)

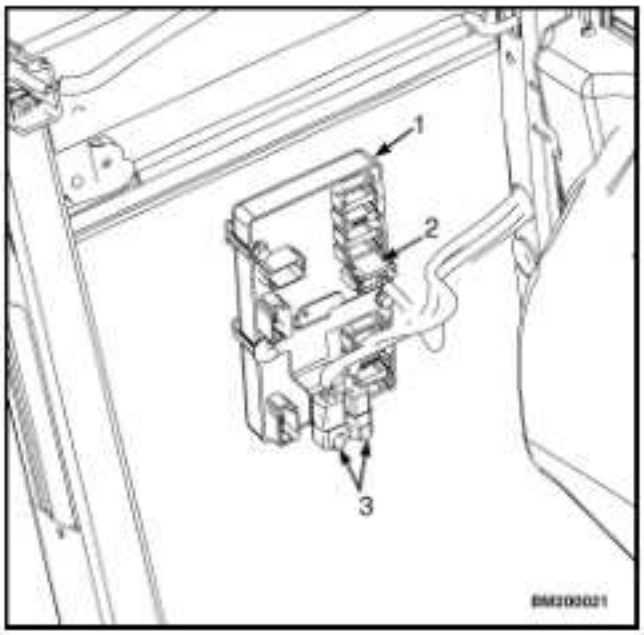
   To access the battery, raise the hood, on lift truck models below. Disconnect the battery.
   - S30FT, S35FT, S40FTS (E010)
   - H1.6FT, H1.8FT, H2.0FTS (H30FT, H35FT, H40FTS) (F001)
   - S2.0-3.5FT (S40-70FT, S55FTS) (F187)
   - H2.0-3.5FT (H40-70FT) (L177)
   - S4.0, 5.0, 5.5FT, S5.5FTS (S80, 100, 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)
   - S6.0FT, S7.0FT (S135FT, S155FT) (D024, E024, F024, G024)
2. Disconnect the harness connector from the load weight sensor. See Figure 46.
3. Remove the load weight sensor from the special fitting on hydraulic control valve.

Install

1. Insert new load weight sensor into special fitting. Tighten sensor by hand, and then torque sensor to 37 N•m (27 lbf ft).
2. Connect the harness connector to the load weight sensor. See Figure 46.
3. Connect the battery, install the floor plate and floor mat, on lift truck models
   - H6.0FT, H7.0FT (H135FT, H155FT) (H006, J006, K006)
   - H8.0FT, H8.0FT9, H9.0FT (H170FT, H175FT36, H190FT) (A299, B299)

   Connect the battery and lower the hood, on 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)
   - S4.0, 5.0, 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)
   - S6.0FT, S7.0FT (S135FT, S155FT) (D024, E024, F024, G024)

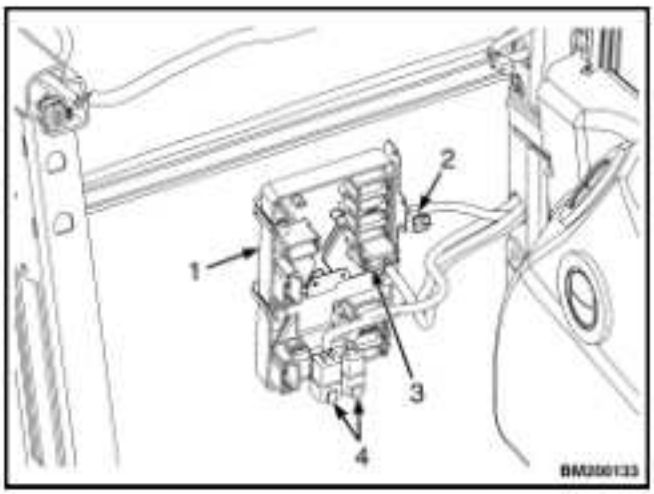
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NOTE: KICK PANEL REMOVED FOR CLARITY.

1. VSM
2. HARNESS CONNECTOR (TO VSM)
3. HARNESS CONNECTOR (TO RIGHT HAND CHASSIS HARNESS)

Figure 28. Light Harness Connection to Vehicle System Manager (VSM) for Lift Truck Models H6.0FT, H7.0FT (H135FT, H155FT) (H006, J006) and H8.0FT, H8.0FT9, H9.0FT (H170FT, H175FT36, H190FT) (A299)

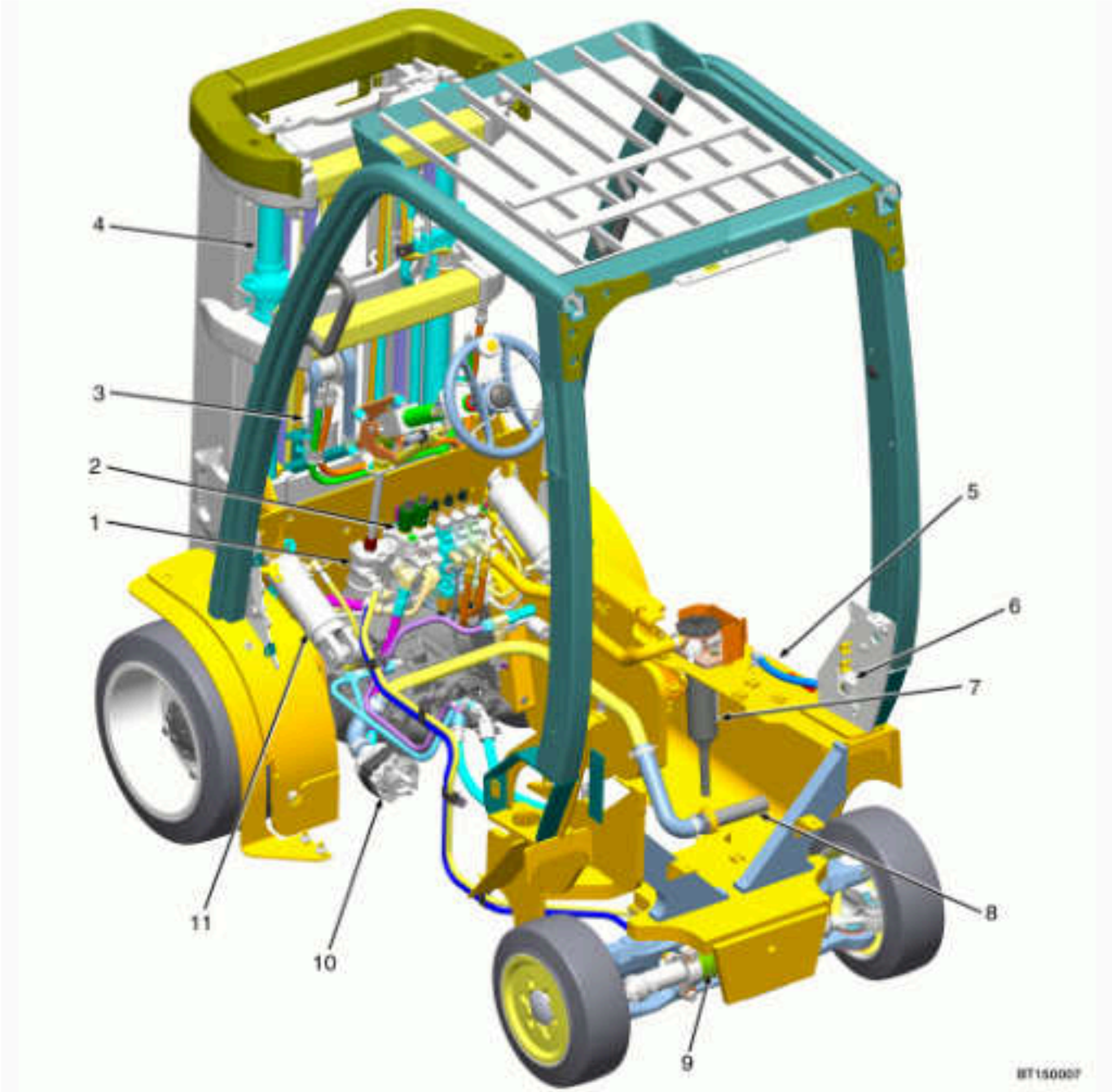


NOTE: KICK PANEL REMOVED FOR CLARITY.

1. VSM
2. DPF DISPLAY HARNESS CONNECTOR (TO COWL)
3. HARNESS CONNECTOR (TO VSM)
4. HARNESS CONNECTOR (TO RIGHT HAND CHASSIS HARNESS)

Figure 29. Electrical Harness Connection to Vehicle System Manager (VSM) for Lift Truck Models H6.0FT, H7.0FT (H135FT, H155FT) (K006) and H8.0FT, H8.0FT9, H9.0FT (H170FT, H175FT36, H190FT) (B299)

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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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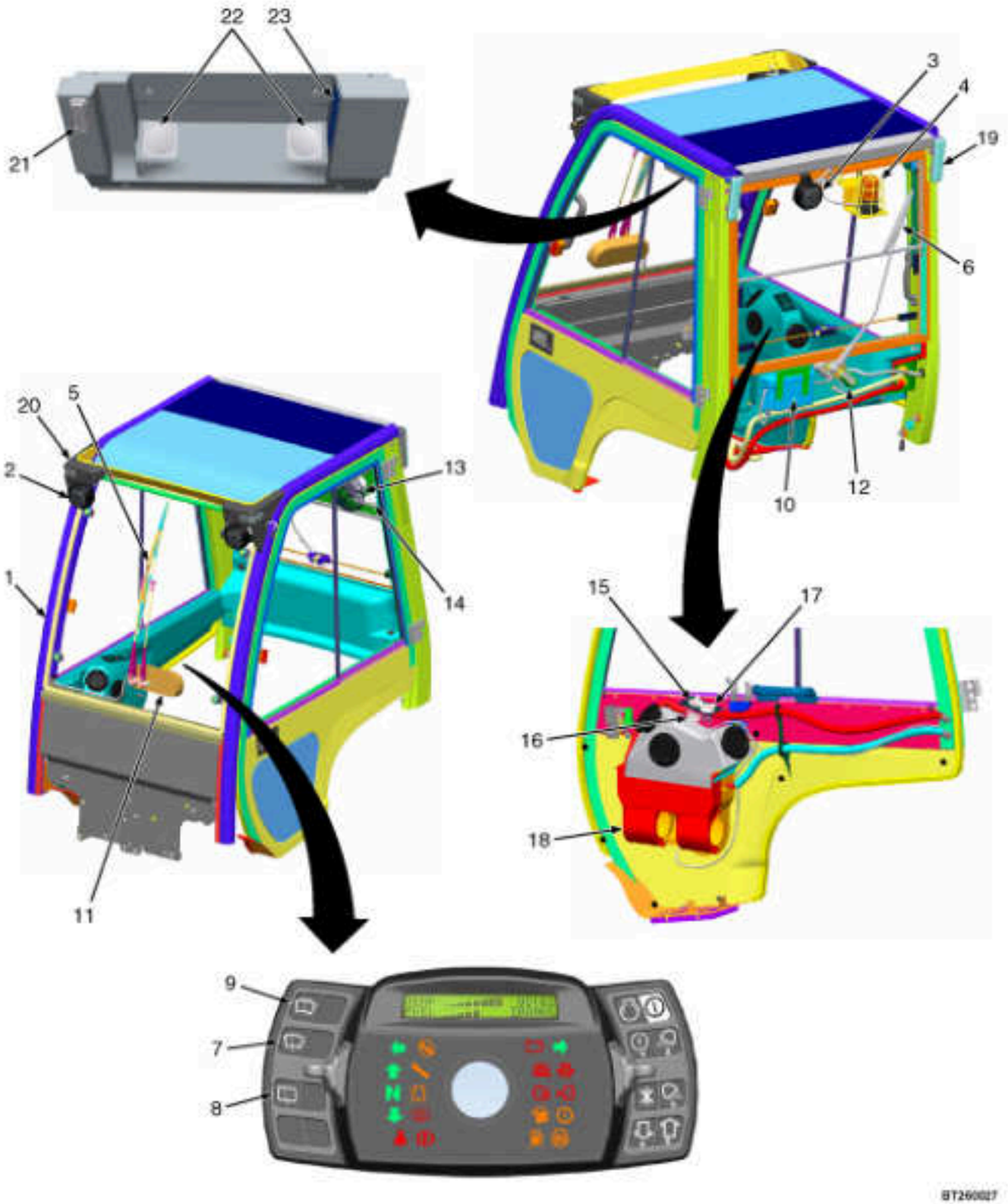


Figure 9060-10-25. Cab Component Locations

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