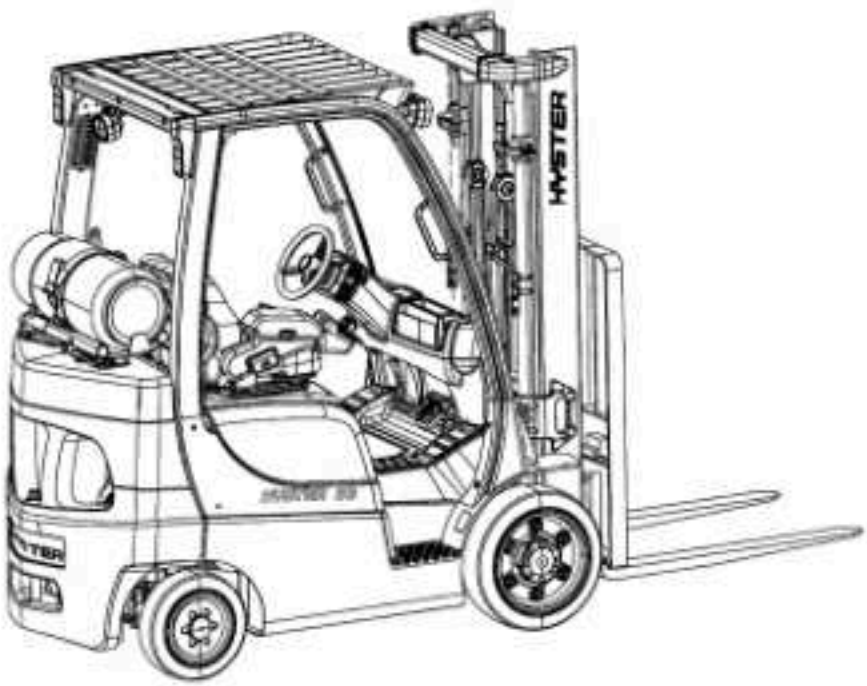
SERVICE MANUAL

N005 (H80FT, H90FT, H100FT, H110FT, H120FT)



Rev. 06/14

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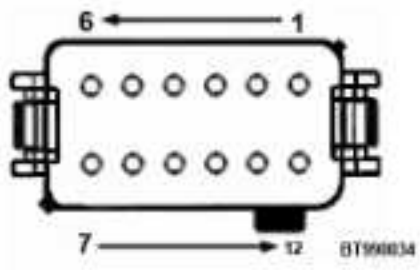
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This section is for the following models:

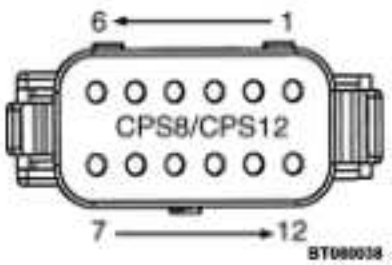
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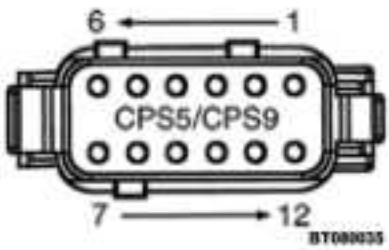
CONNECTOR(S)



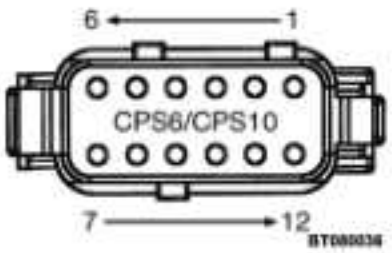
Connector CPS4



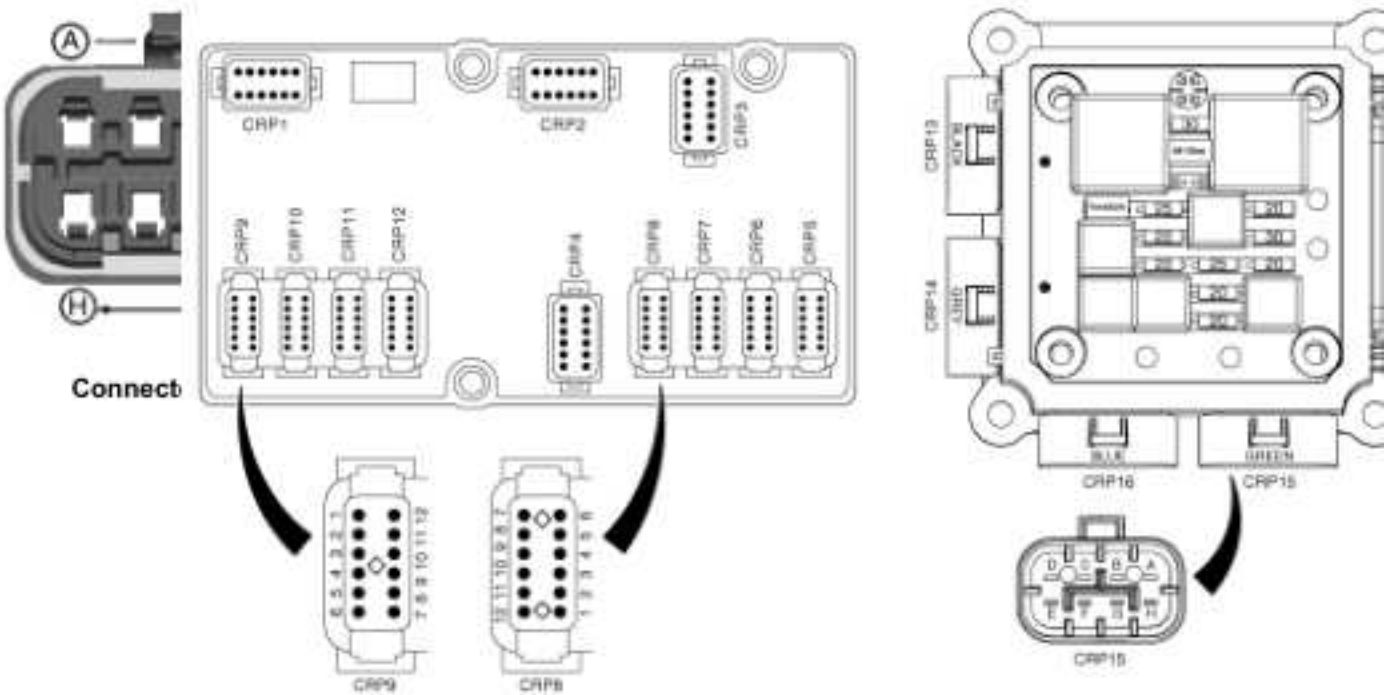
Connector CPS8



Connector CPS9



Connector CPS10



Connect

VSM and PDM Connections

POSSIBLE CAUSE

A. FUSE BLOWN IN PDM
B. OPEN CIRCUIT IN WIRING HARNESS
C. HORN FAILURE
D. VSM FAILURE

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Group 30

Observed Symptoms

Abnormal Channel Wear

POSSIBLE CAUSE

A. MAST DAMAGED
B. MAST CHANNELS LACK LUBRICATION
C. CHAINS ARE LOOSE OR NOT EQUAL
D. MAST IS SHIMMED INCORRECTLY
E. LOAD ROLLERS ARE NOT ROTATING FREELY WITHIN CHANNEL
F. DAMAGED OR WORN LOAD ROLLERS OR STRIP BEARINGS
G. LIFT CYLINDER BINDING

CAUSE A - MAST DAMAGED

NOTE: See **Operating Manual**.

PROCEDURE OR ACTION:

1. Visually inspect mast for damage.
   Is the mast in good condition?
   YES: Go to Cause B.
   NO: Repair or replace damaged components. For 1.0-3.5 Ton Cushion and Pneumatic Trucks, see **Mast Repairs (S/N A551, A555, A559, A661, A662, A663, A664, B507, B508, B509, B551, B555, B559, B562, B563, B564, B661, B662, B663, C515, C551, C555, C559, D507, D508, D509, D515, D562, D563, D564, E509, and E564)** 4000SRM1148. For 4.0-7.0 Ton Cushion and Pneumatic Trucks, see **Mast Repairs (S/N A513, A514, A613, A614, A702, A703, A704, A705, A706, A707, A751, A752, B513, B514, B586, B587, B588, B589, B590, B591, B749, B750, B751, B752, B753, B754)** 4000SRM1250. For 8.0-9.0 Ton Cushion and Pneumatic Trucks, see **Mast Repair (S/N A513, A514, A613, A614, A643, A644, A683, A684)** 4000SRM1406.

CAUSE B - MAST CHANNELS LACK LUBRICATION

PROCEDURE OR ACTION:

1. Inspect grease on mast channels.
   Is a thin coat of grease spread evenly on channels?
   YES: Go to Cause C.
   NO: Apply grease to mast sliding surfaces. For 1.0-2.0 Ton Cushion and Pneumatic Trucks, see **Periodic Maintenance** 8000SRM1207. For 2.0-3.5 Ton Cushion and Pneumatic Trucks, see **Periodic Maintenance** 8000SRM1150. For 4.0-5.5 Ton Cushion and Pneumatic Trucks, see **Periodic Maintenance** 8000SRM1248. For 6.0-7.0 Ton Cushion Trucks, see **Periodic Maintenance** 8000SRM1319. For 6.0-7.0 Ton Pneumatic Trucks, see **Periodic Maintenance** 8000SRM1322. For 8.0-9.0 Ton Pneumatic Trucks, see **Periodic Maintenance** 8000SRM1407.

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NOTE: The counterweight is held in position on frame by two hooks that are part of frame. See Figure 14.

One M30 × 3.5 x 120 capscrew holds counterweight to lower part of frame on lift truck models

- H4.0FT5/FT6; H4.5FTS, H45FT6; H5.0-5.5FT (H80, 90, 100, 110, 120FT) (N005, P005, R005, S005)GLP/GDP40VX5/VX6; GLP/GDP45SVX5, GLP/ GDP45VX6; GLP/GDP50-55VX (GP/GLP/GDP080, 090, 100, 110, 120VX) (F813, G813, H813, J813)

One M30 X 3.5 X 140 capscrew holds counterweight to lower part of frame for lift truck models

- S4.0, 4.5, 5.5FT (S80, 100, 120FT) (G004, H004)

One M30 x 3.5 x 160 capscrew holds counterweight to lower part of frame for lift truck models

- S5.5FTS (S80, S100FTBCS, 120FTS; S120FTPRS) (G004, H004)

NOTE: If lift truck is equipped with an overhead exhaust system, remove overhead exhaust pipe before removing counterweight. See section Exhaust System Repair for procedures.

1. If lift truck has an LPG fuel system, see one of the following **Service Manuals** to remove the LPG tank and bracket so that the counterweight can be removed.

   LPG Fuel System, GM 4.3L Engine With GFI 900 YRM 1242 for lift truck models

   - S4.0, 4.5, 5.5FT, S5.5FTS (S80, 100, 120FT; S80, 100FTBCS; S120FTS; S120FTPRS) (G004)
   - H4.0FT5/FT6; H4.5FTS5, H4.5FT6; H5.0-5.5FT (H80, 90, 100, 110, 120FT) (N005, P005)

   LPG Fuel System, GM 4.3L Engine With PSI 900 YRM 1556 for lift truck models

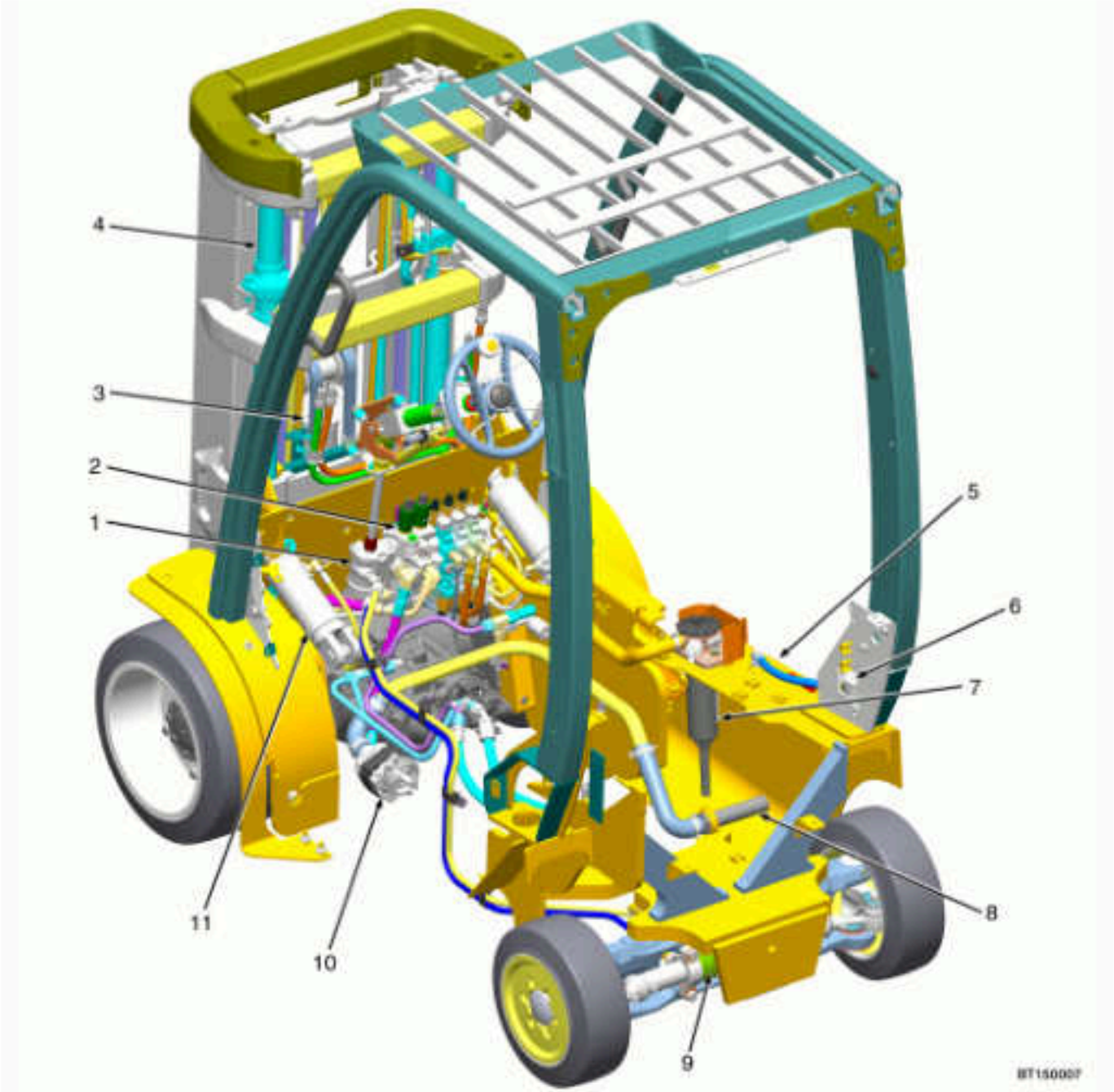
   - S4.0, 4.5, 5.5FT, S5.5FTS (S80, 100, 120FT; S80, 100FTBCS; S120FTS; S120FTPRS) (G004, H004)
   - H4.0FT5/FT6; H4.5FTS5, H4.5FT6; H5.0-5.5FT (H80, 90, 100, 110, 120FT) (P005, R005, S005)

WARNING

The counterweight is heavy. Make sure that the eyebolt and lifting devices have enough capacity to lift the weight. The approximate weights of the counterweight castings are shown in Table 2.

2. Install a lifting eye in lift hole of counterweight. See Figure 14. Connect a crane to lifting eye and raise crane until it holds part of weight of counterweight. If counterweight is equipped with a tow pin, remove tow pin and remove capscrew that holds counterweight to frame. If counterweight is not equipped with a tow pin, remove capscrew that holds counterweight to frame. See Figure 14. Use crane to lift counterweight from lift truck. Put counterweight on floor so that it has stability and will not fall over. Take care not to damage exhaust or cooling components.

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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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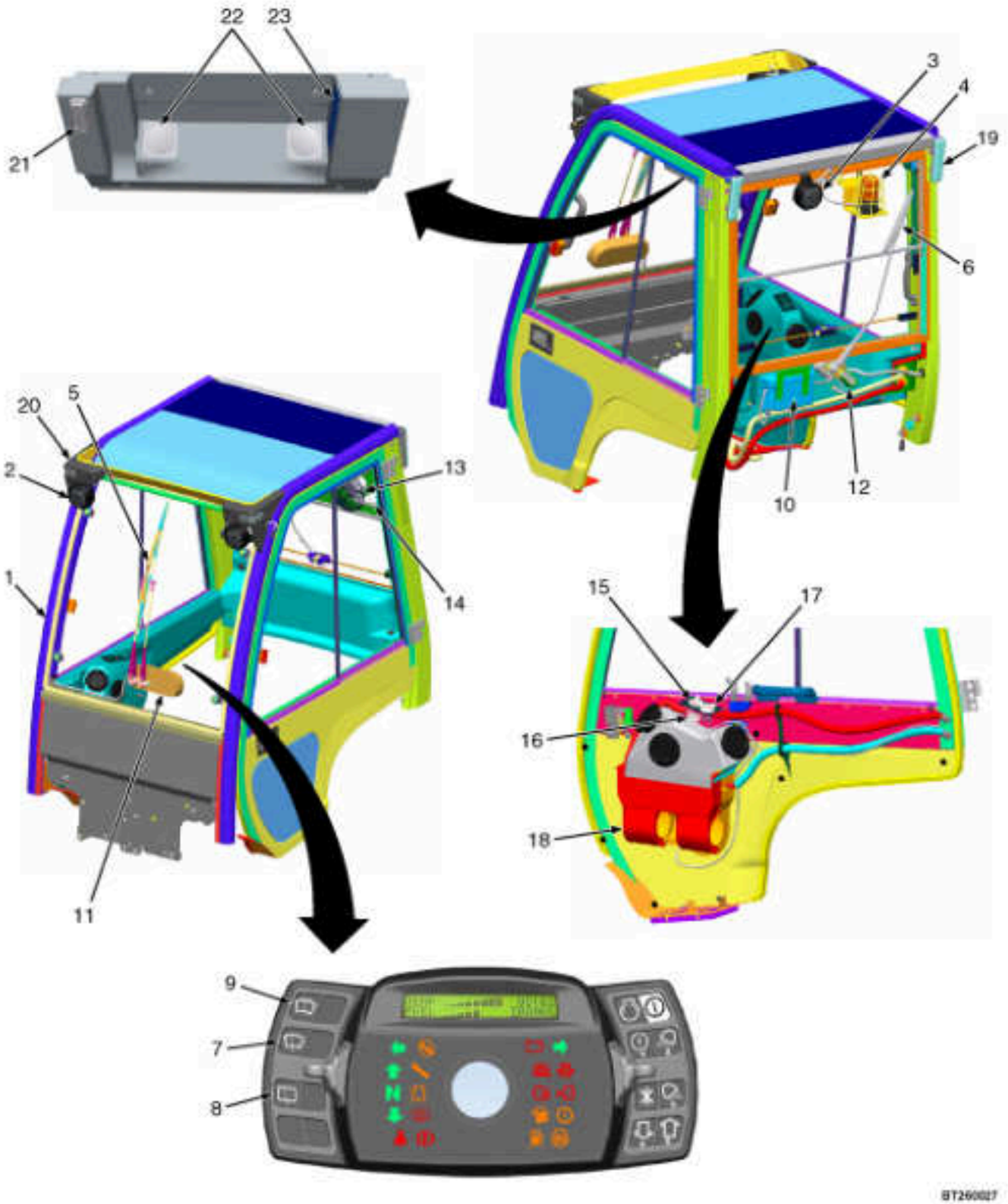


Figure 9060-10-25. Cab Component Locations

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