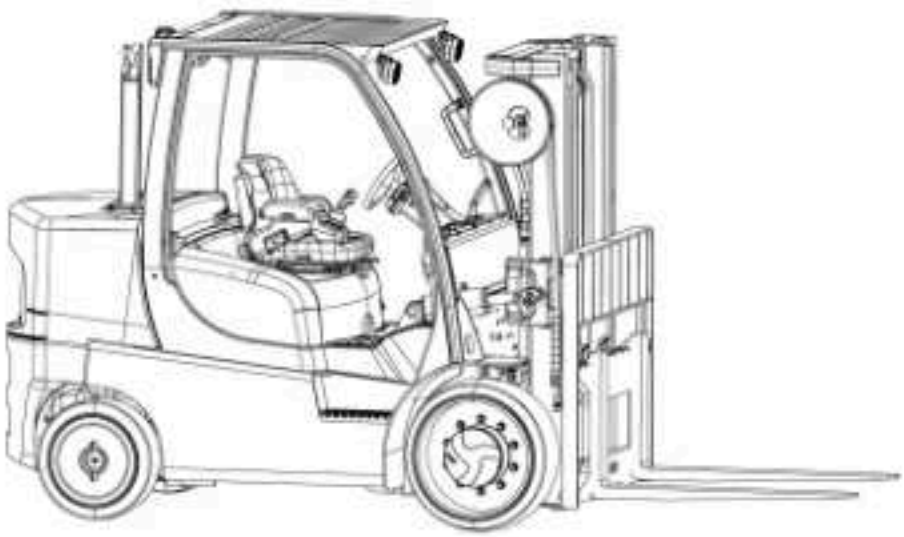
SERVICE MANUAL

F024 (S135FT, S135FT)



Rev. 06/14

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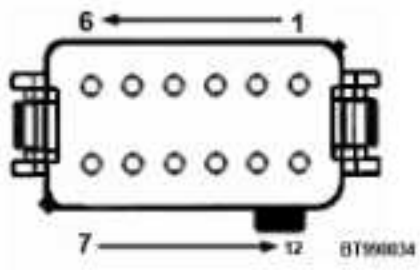
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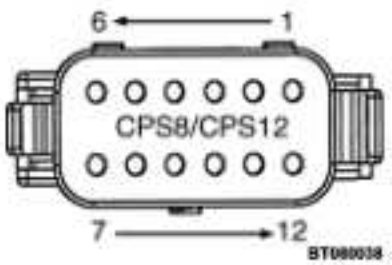
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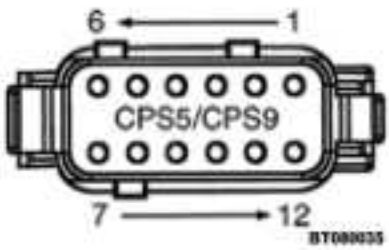
CONNECTOR(S)



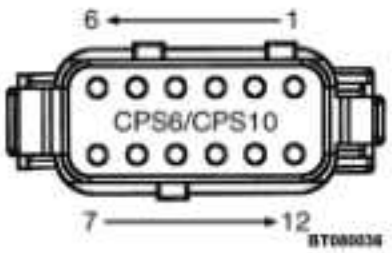
Connector CPS4



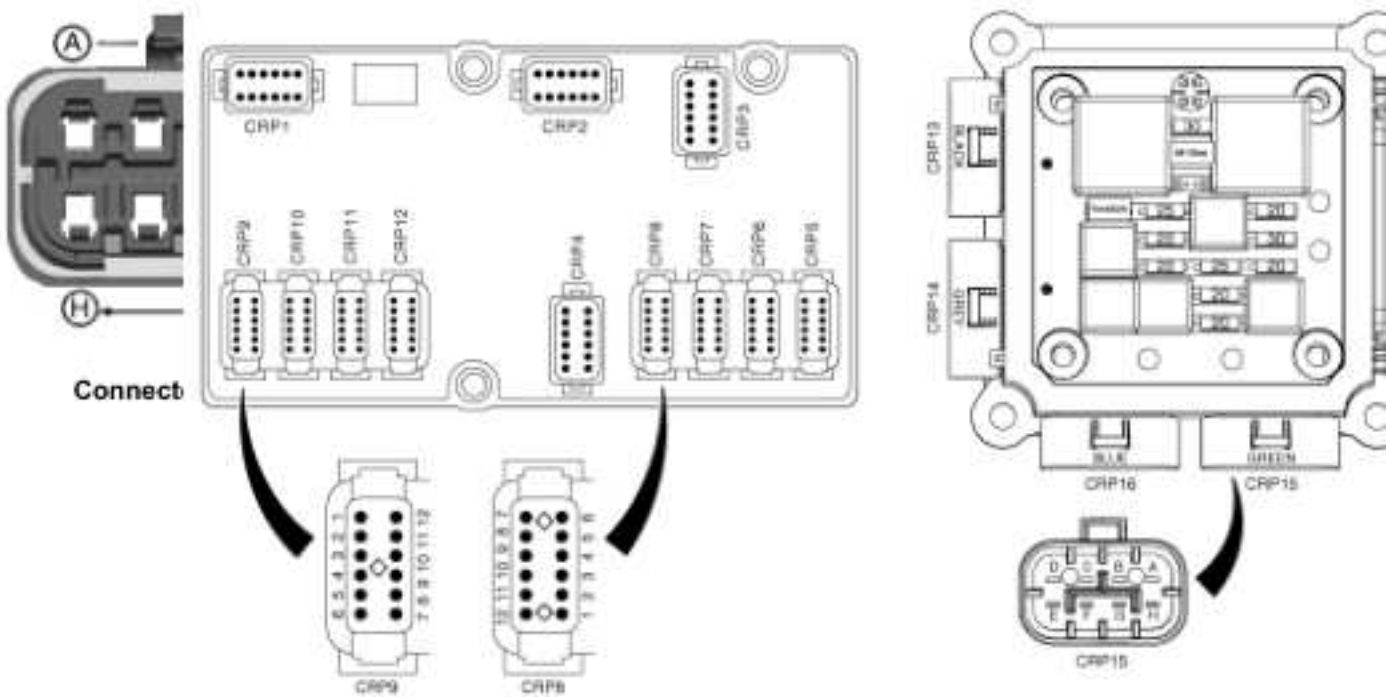
Connector CPS8



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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Proc_Cal_014: Load Weight Zero Point

WHEN TO PERFORM

Performed by the operator when the no-load weight displayed on the screen with the forks in the "weighing position" is not within ±2 percent of truck capacity. (This is ±45.4 kg (100 lb) for a 2268 kg (5,000 lb) truck).

This procedure will write a value to the Tare Weight memory location. If you are going to perform Proc_Cal_015 Loaded Weight Calibration, you can skip this procedure as its value will be overwritten.

CALIBRATION ORDER

1. Proc_Cal_001
2. Proc_Cal_014

WHY PERFORM

Allows the system to take into account the weight of the carriage assembly for weight displays.

HOW TO PERFORM

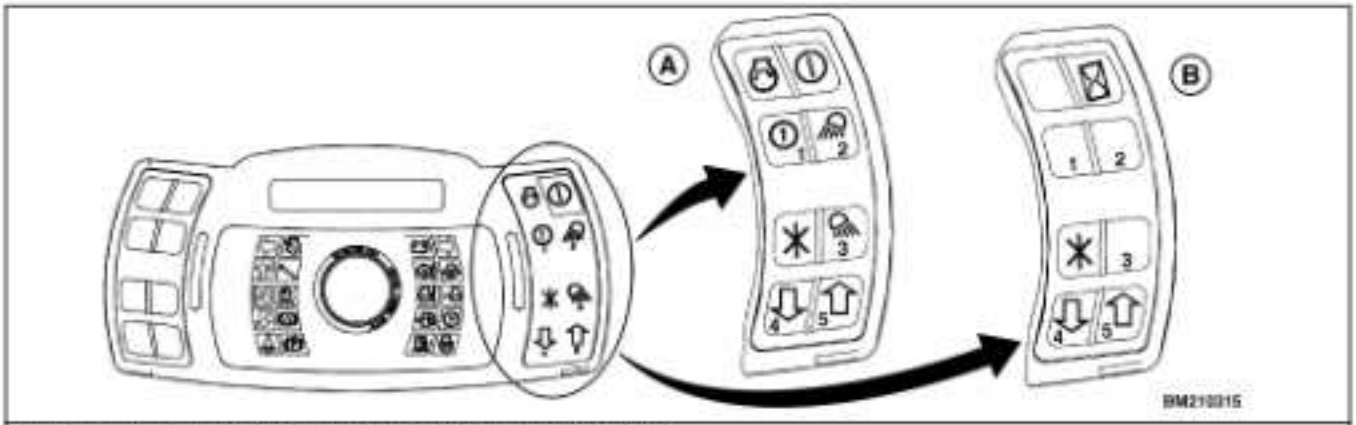
WARNING

Keep yourself and all others clear of the lift mechanism. Never allow anyone under or on the forks.

Never put hands, arms, head, or legs through the mast or near the carriage or lift chains. This warning applies not only to the operator but also the helper. A helper must not be near the load or the lift mechanism while the operator is attempting to handle a load. The lift mechanism has moving parts with close clearances that can cause serious injury.

Refer to Table 16 for the procedures on how to perform Proc_Cal_014: Load Weight Zero Point.

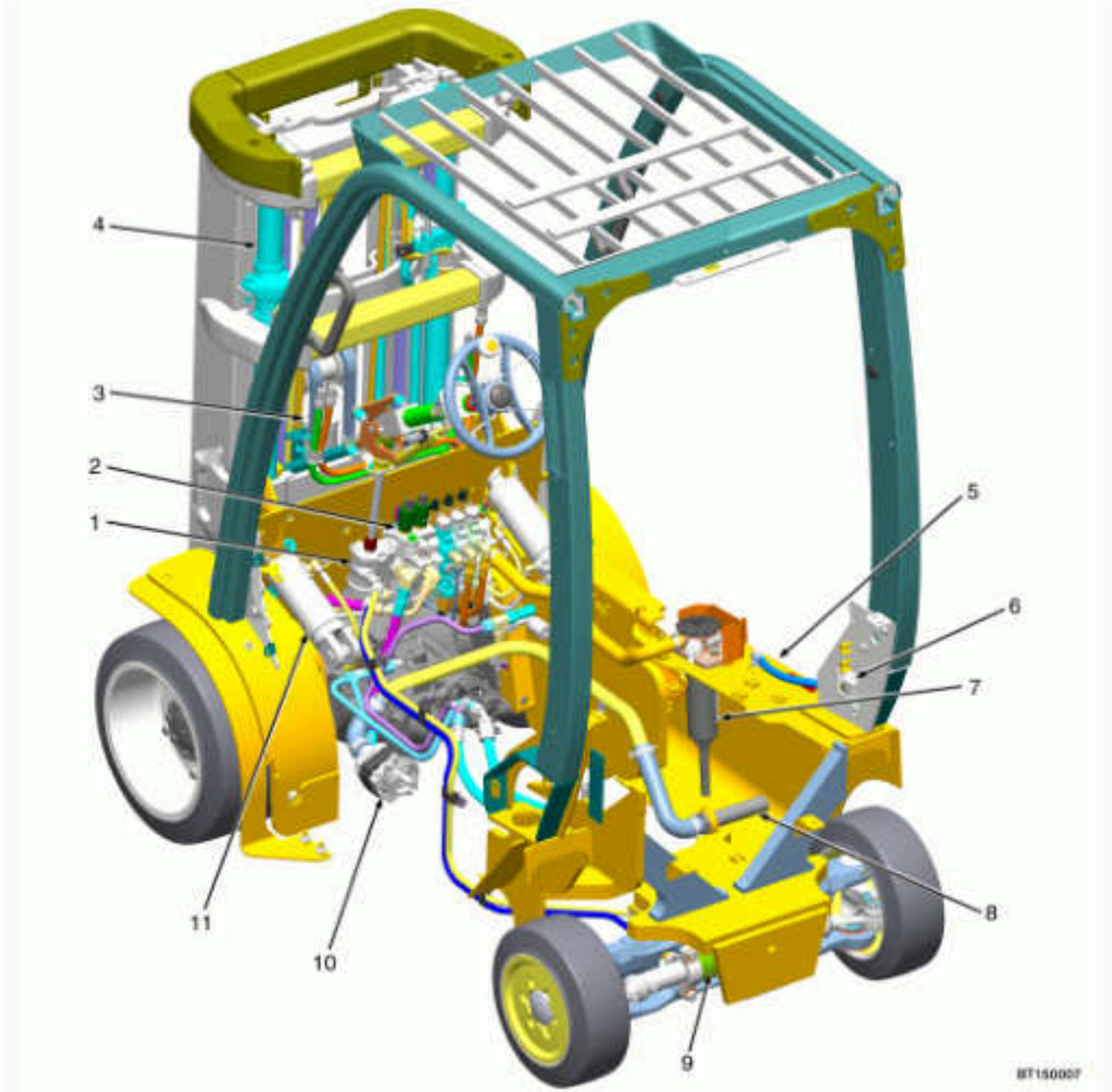
Table 16. Proc_Cal_014: Load Weight Zero Point



A. TYPICAL DISPLAY WITHOUT KEY, WITH OPTIONS
B. TYPICAL DISPLAY WITH KEY, WITHOUT OPTIONS

Proc_Cal_001: Service Password Entry before proceeding.		
Action 1: Start Engine.		
Action 2: Position Mast Vertical.		
Action 3: With No Load, Activate Lift Control to Raise Forks/Attachment Approximately 0.6 m (2 ft), But If Freelift Is Present, Not More Than Maximum Freelift.	**You Will See:**	Main Menu Passwords

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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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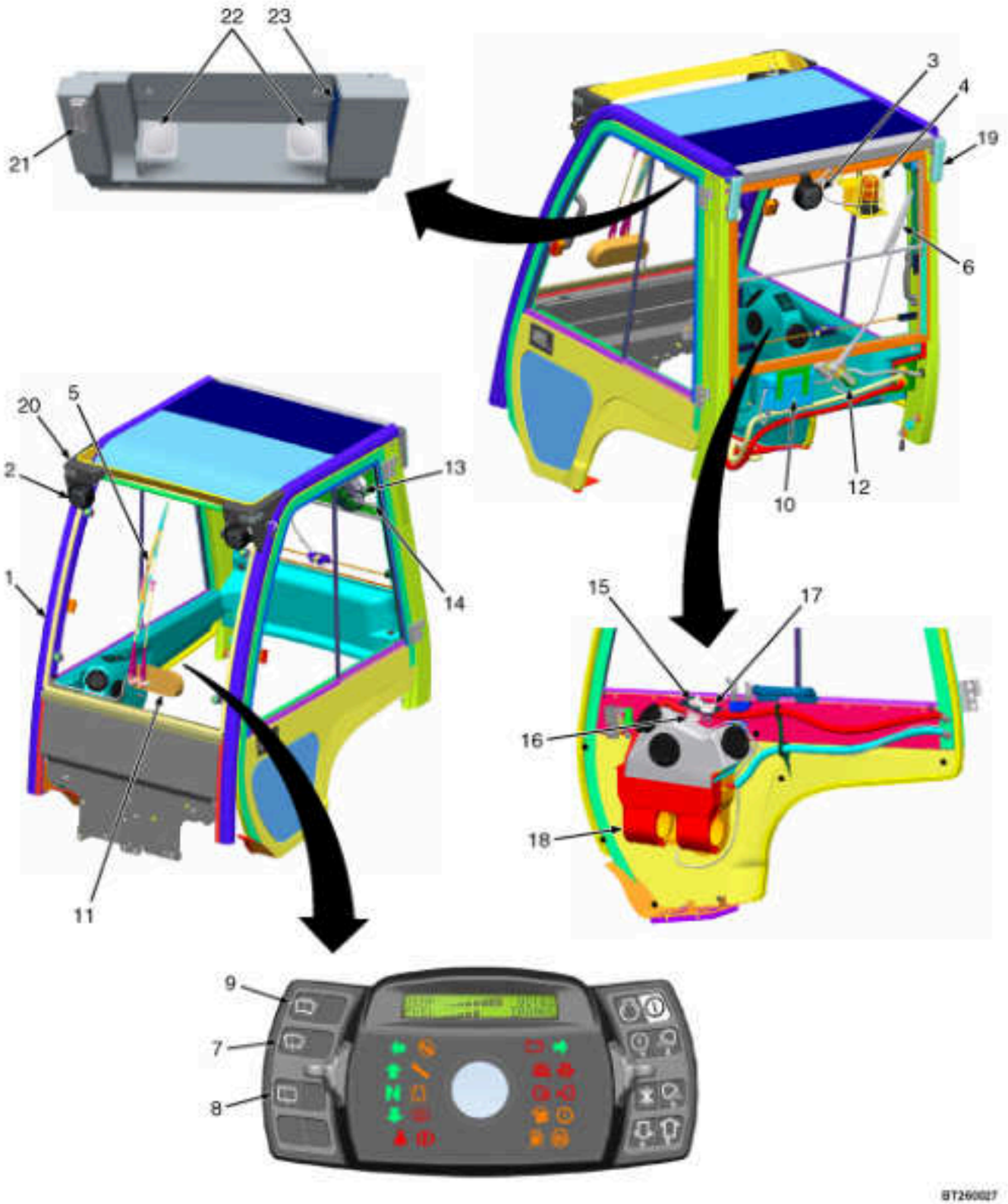


Figure 9060-10-25. Cab Component Locations

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