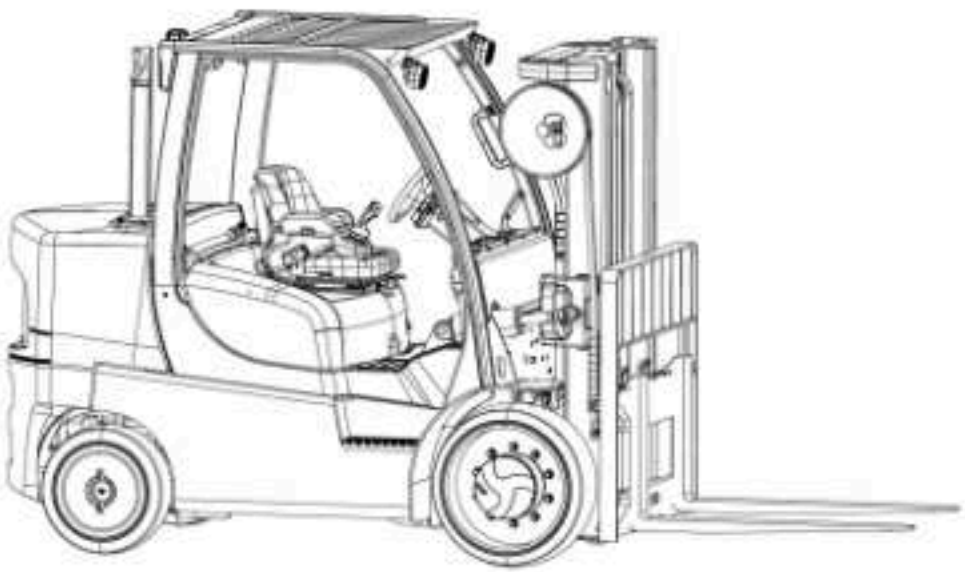
SERVICE MANUAL

G024 (S135FT, S155FT)



Rev. 06/14

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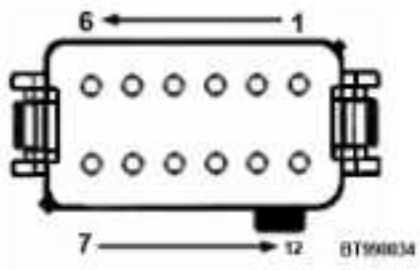
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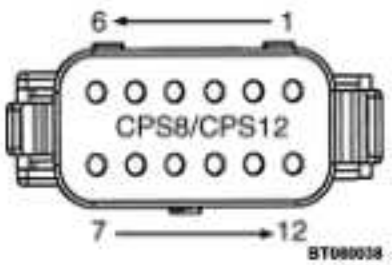
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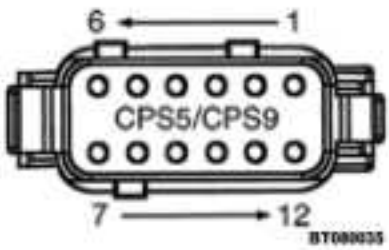
CONNECTOR(S)



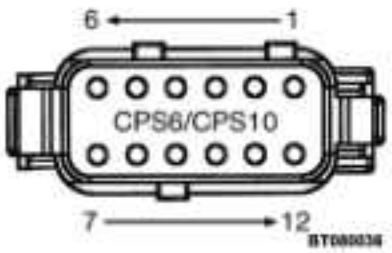
Connector CPS4



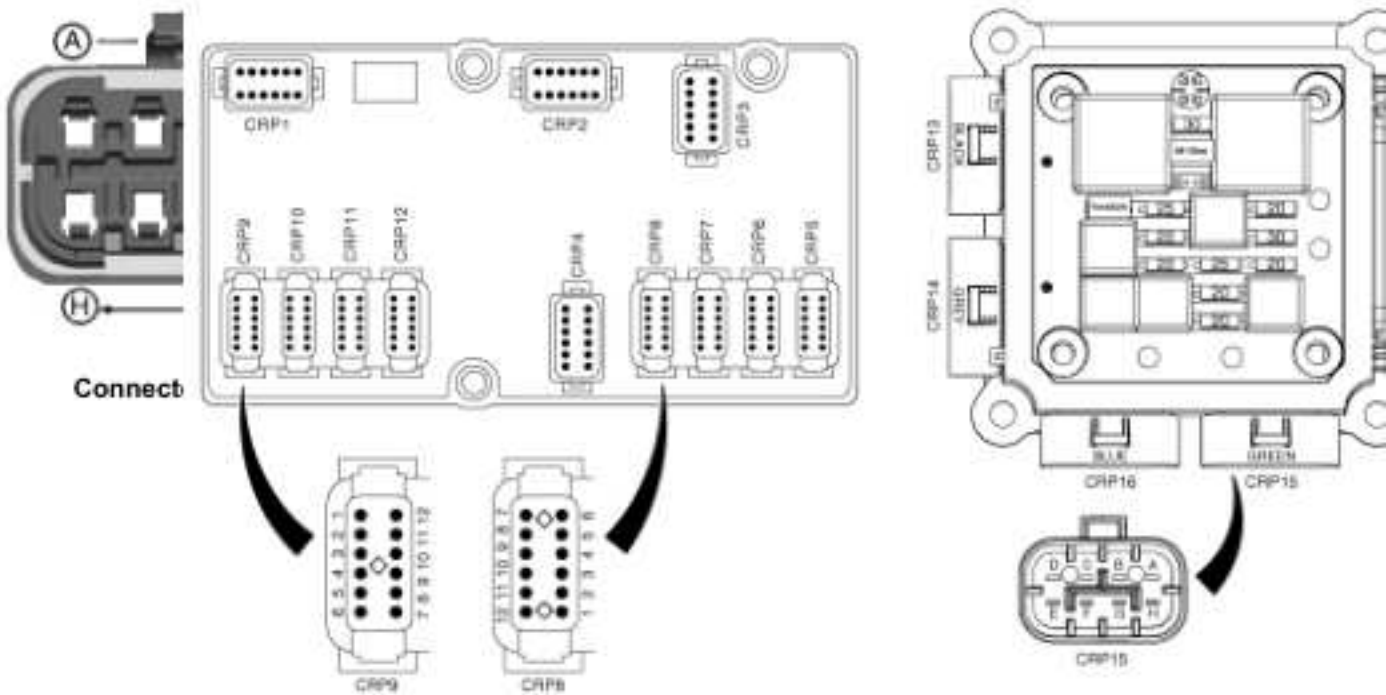
Connector CPS8



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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Inspection Item		Standard	Limit
Second Ring	Side Clearance	0.093 to 0.120 mm (0.00367 to 0.00472 in.)	0.20 mm (0.0079 in.)
	End Clearance	0.30 to 0.45 mm (0.012 to 0.017 in.)	1.25 mm (0.0492 in.)
Oil Ring	Side Clearance	0.020 to 0.060 mm (0.00079 to 0.0023 in.)	0.15 mm (0.0059 in.)
	End Clearance	0.250 to 0.450 mm (0.0099 to 0.017 in.)	1.25 mm (0.0492 in.)

CONNECTING ROD

Inspection Item	Standard	Limit
Thrust Clearance		0.05 mm (0.002 in.)

Rod Small End

Inspection Item	Standard	Limit
Bushing Outside Diameter	30.031 to 30.046 mm (1.1824 to 1.1829 in.)	
Pin Outside Diameter	30.006 to 30.011 mm (1.1814 to 1.1815 in.)	
Clearance	0.020 to 0.040 mm (0.00079 to 0.0015 in.)	0.15 mm (0.0059 in.)

Tappet

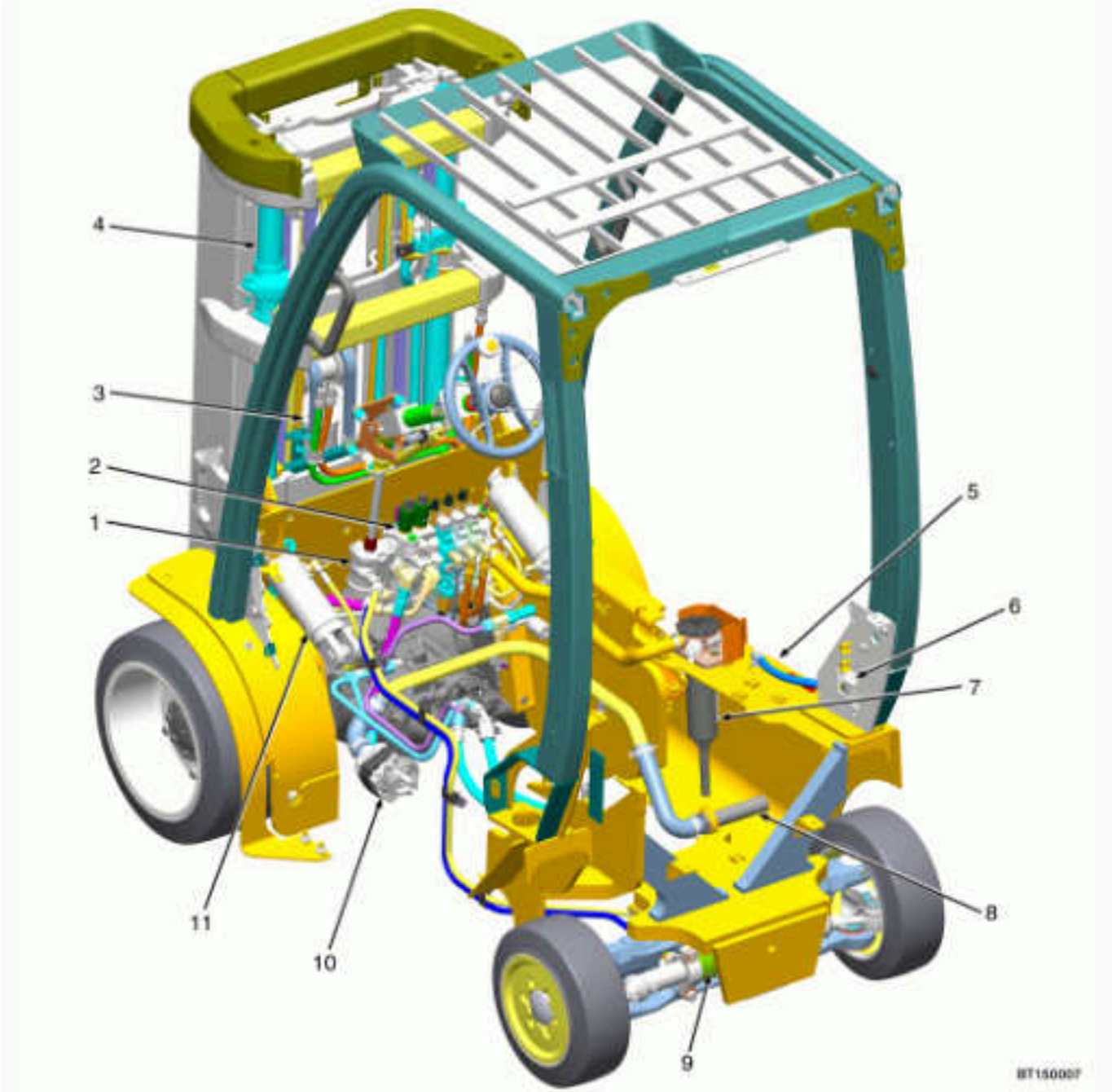
Inspection Item	Standard	Limit
Tappet Hole (Block) Inside Diameter	24.000 to 24.021 mm (0.94489 to 0.94570 in.)	
Tappet Stem Outside Diameter	23.959 to 23.980 mm (0.94327 to 0.94409 in.)	
Clearance	0.020 to 0.062 mm (0.00079 to 0.0024 in.)	0.07 mm (0.003 in.)

OIL PUMP

Engine Oil Pressure

Model Number	at Rated Engine rpm	at Low Idle Speed
All models	0.20 to 0.39 MPa (29 to 56.56 psi)	0.05 MPa (7 psi) or greater

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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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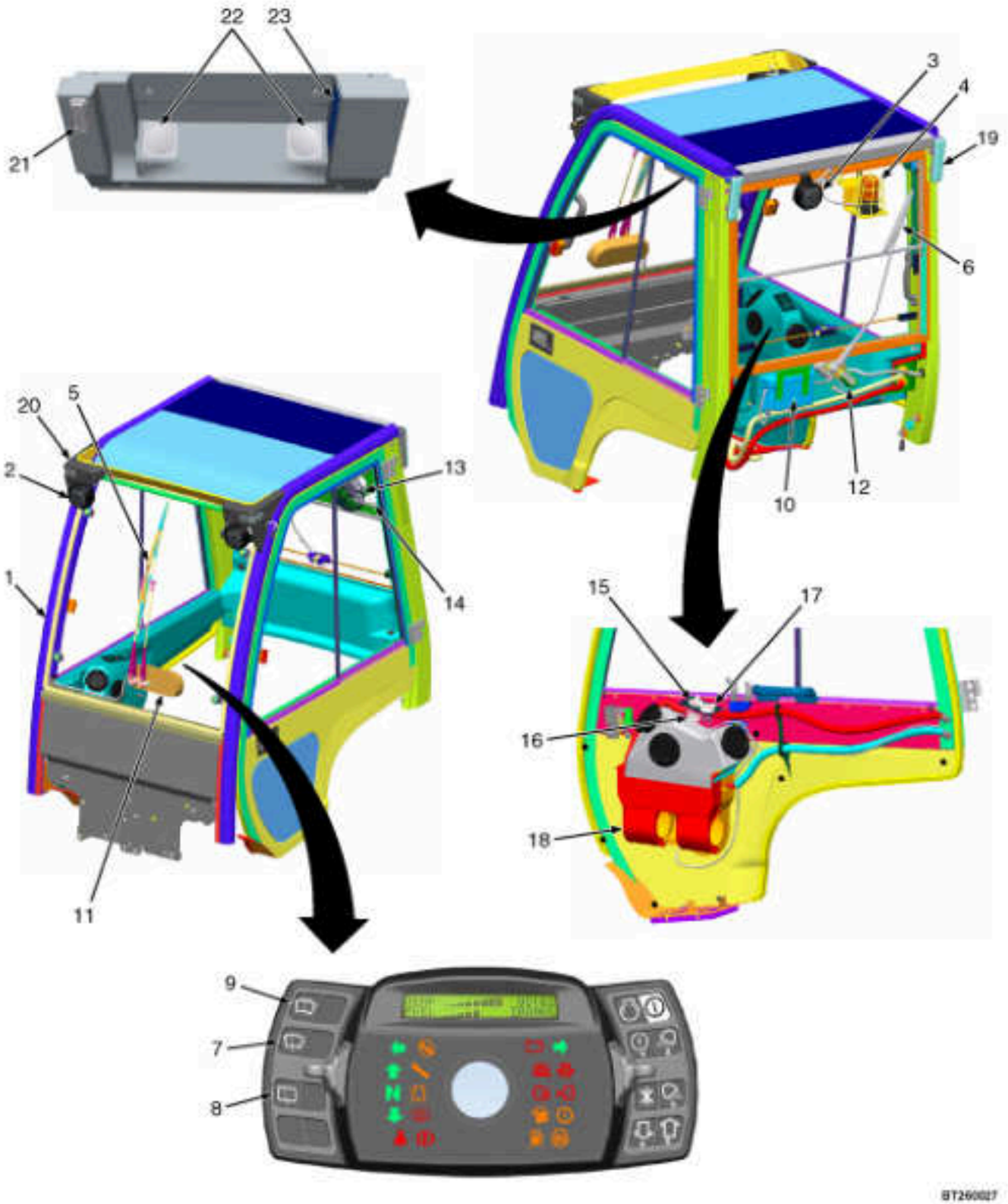


Figure 9060-10-25. Cab Component Locations

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