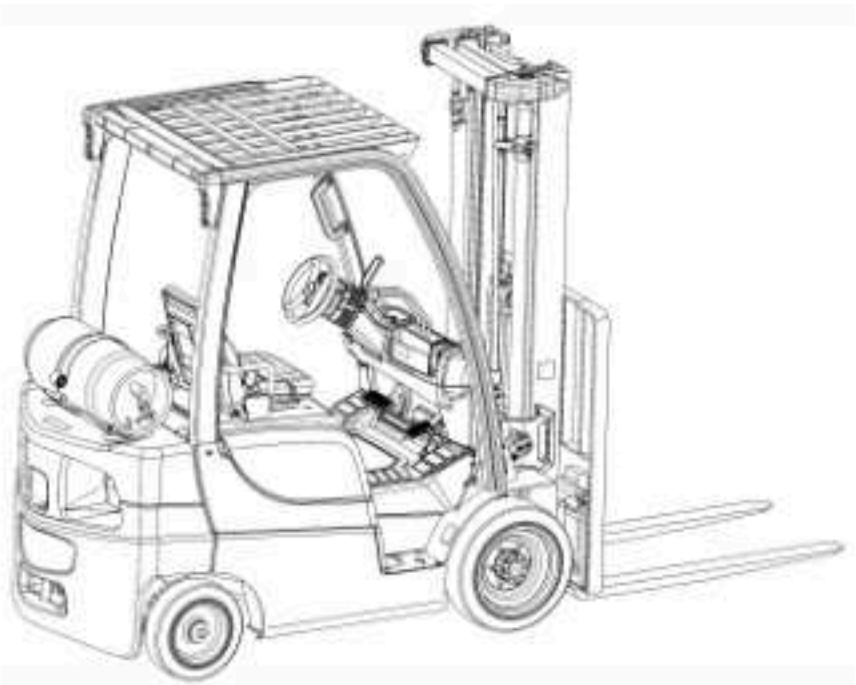
SERVICE MANUAL

A274 (H50CT)



Rev. 04/14

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This section is for the following models:

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14. Remove two capscrews and washers from cover plate and remove electrical cover. Disconnect seat harness from chassis harness. See Figure 6.

CAUTION

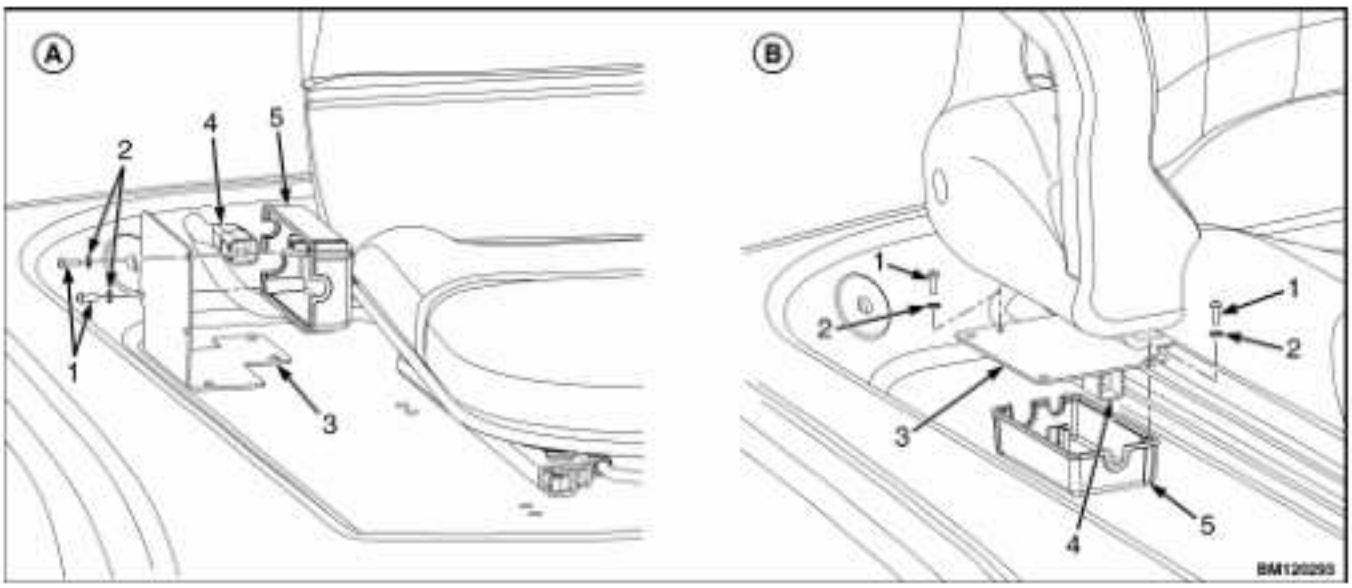
When removing the seat from the hood, do not use an impact wrench to remove the capscrews. Damage can be caused to the threads on the capscrews and in the holes.

15. Open hood and pull chassis harness through hole in hood. See Figure 7. Remove the four capscrews and nuts holding the seat to the hood. Lift the seat off the hood. See Figure 7. Close hood.

16. Remove the nuts from ball studs on gas springs. Remove gas springs from the hood. See Figure 8.

17. Remove the hinge capscrews and nuts, located in the rear of the hood. See Figure 8.

18. Lift the hood from the truck.



A. NON-SUSPENSION SEAT

1. CAPSCREWS
2. WASHER
3. COVER PLATE

B. FULL SUSPENSION SEAT

4. ELECTRICAL CONNECTOR (SEAT HARNESS)
5. ELECTRICAL COVER

Figure 6. Disconnect Seat Wire Harness

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Item	Quantity	Specifications
Transmission Oil		
Single Speed Powershift Transmission	13 liter (14.0 qt)	John Deere JDM J20C
Brake Oil (Master Cylinder)	0.25 liter (0.26 qt)	SAE J-1703 (DOT 3)
Differential and Drive Axle Oil	5.0 liter (5.3 qt)	SAE 80W-90 or 85W-140

Electrical System

Item	Mazda 2.0L LPG	Mazda 2.2L LPG	Yanmar 2.6L Diesel
Battery	12-volt, negative ground	12-volt, negative ground	12-volt, negative ground
Ignition Timing			
LPG (With ECU in Set Mode)	BTDC 6° (Orange Timing Mark)	BTDC 6° (Orange Timing Mark)	N/A
Diesel	N/A	N/A	Preset @ 4° ATDC
Alternator Output	14 Volts	14 Volts	13.5Volts
Idle	16 amps @ 800 rpm	21 amps @ 800 rpm	14 amps @ 825 rpm
High Idle	47 amps @ 2400 rpm	49 amps @ 2600 rpm	55 amps @ 2400 rpm
Spark Plug Type	Nippon Denso W9EXR-U	Nippon Denso W9EXR-U	N/A
Spark Plug Size	M14 x 1.25	M14 x 1.25	N/A
Spark Plug Gap	0.8 +0.0/−0.1 mm (0.032 +0.0/−0.0040 in.)	0.8 +0.0/−0.1 mm (0.032 +0.0/−0.0040 in.)	N/A

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Mast Lift Chains Are Loose

POSSIBLE CAUSE

A. MAST DAMAGED.
B. DAMAGED CHAIN SHEAVES.
C. INCORRECT CHAIN ADJUSTMENT.

CAUSE A - MAST DAMAGED.

NOTE: See **Operating Manual**.

PROCEDURE OR ACTION:
Visually inspect mast for damage.

Is the mast in good condition?

YES: Go to Cause C.

NO: Repair or replace damaged components. See **Mast Repair** 4000 SRM 1431.

CAUSE B - DAMAGED CHAIN SHEAVES.

PROCEDURE OR ACTION:
Inspect chain sheaves.

Do chain sheaves rotate freely without noise?

YES: Go to Cause C.

NO: Replace chain sheaves. See **Mast Repair** 4000 SRM 1431.

CAUSE C - INCORRECT CHAIN ADJUSTMENT.

PROCEDURE OR ACTION:
Inspect lift chains. See **Mast Repair** 4000 SRM 1431.

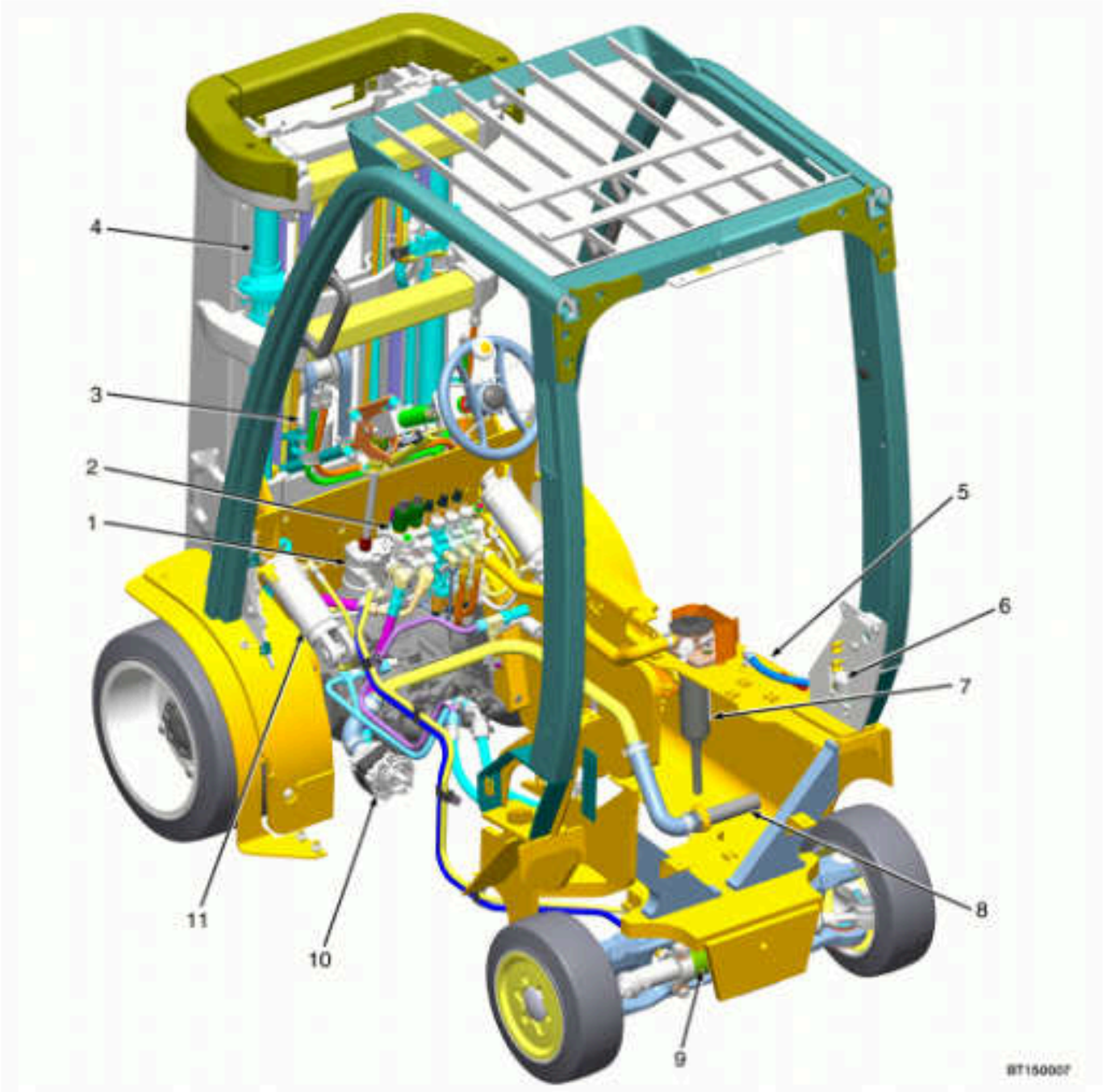
Are the chains in good condition and adjusted correctly?

YES: See Observed Symptoms, Mast or Carriage Binding, Page 9070-30-21.

NO: Adjust or replace chain.

END SYMPTOM

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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

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High Tire Wear - Steer Axle

POSSIBLE CAUSE

A. RUNNING OVER OIL/SOLVENTS AND DEBRIS.
B. EXCESSIVE SPEED ON TURNS AND STOPS.
C. TURNING WITH MACHINE STOPPED OR NO LOAD ON FORKS.
D. LOW PNEUMATIC TIRE INFLATION.
E. HIGH PNEUMATIC TIRE INFLATION.
F. FAILED WHEEL BEARINGS.
G. LOOSE TIE RODS.

CAUSE A - RUNNING OVER OIL/SOLVENTS AND DEBRIS.

PROCEDURE OR ACTION:
Visually inspect work area for contaminates and debris.

CAUSE B - EXCESSIVE SPEED ON TURNS AND STOPS.

PROCEDURE OR ACTION:
Reduce speed and spinning of wheels.

CAUSE C - TURNING WITH MACHINE STOPPED OR NO LOAD ON FORKS.

PROCEDURE OR ACTION:

NOTE: Steering without load on forks puts the highest load on steer axle because of counterweight. Avoid steering wheels when not moving to reduce tire wear.
Steer while moving whenever possible.

CAUSE D - LOW PNEUMATIC TIRE INFLATION.

PROCEDURE OR ACTION:
Check and adjust tire inflation. See **Operating Manual**.

CAUSE E - HIGH PNEUMATIC TIRE INFLATION.

PROCEDURE OR ACTION:
Check and adjust tire inflation. See **Operating Manual**.

CAUSE F - FAILED WHEEL BEARINGS.

PROCEDURE OR ACTION:
Inspect wheel bearings.

Are bearing in good condition?

YES: Tires are defective. See tire manufacture for warranty.

NO: Replace wheel bearing. See **Drive Axle and Differential Assembly Repair** 1400 SRM 1426.

CAUSE G - LOOSE TIE RODS.

PROCEDURE OR ACTION:
Inspect joint where tie rods are attached to pinion assembly.

Is the tie rod tight in bore?

YES: See Observed Symptoms, Wheels Appear Tipped or Misaligned, Page 9070-30-33.

NO: Replace tie rod. See **Drive Axle and Differential Assembly Repair** 1400 SRM 1426.

END SYMPTOM

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