CAT® Lift Trucks

Operation & Maintenance Manual

MC/FC

GP40N	CT40A-00011-up	DP40NB	CT12D-00011-up
GP45N	CT29E-50001-up	DP45NB	CT19F-50001-up
GP50CN	CT29E-80001-up	DP50CNB	CT19F-80001-up
GP50N	CT33D-50001-up	DP50NB	CT28E-50001-up
GP55N	CT33D-80001-up	DP55NB	CT28E-80001-up

Original Instructions

Keep this manual in your lift truck as a ready reference

99730-6B110

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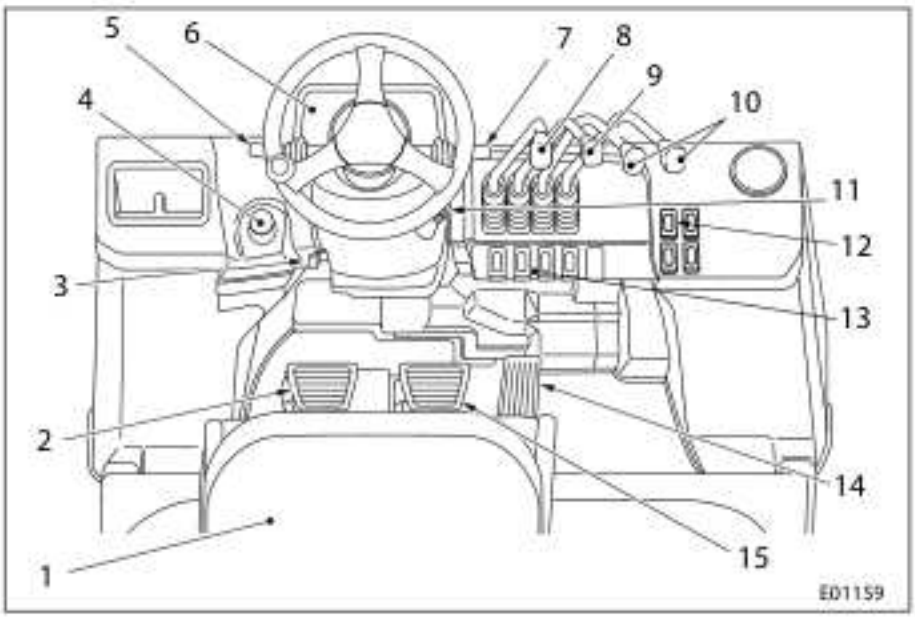
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▶ MC Model



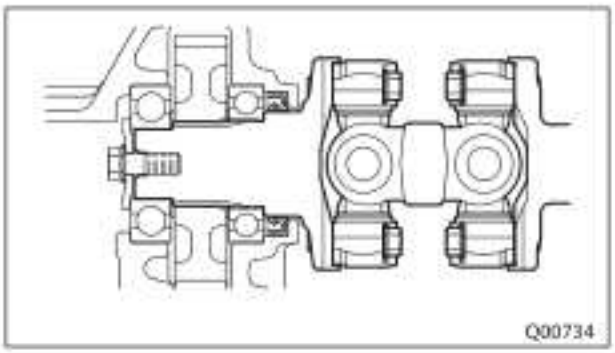
1. Operator seat
2. Inching pedal
3. Steering column tilt lever
4. Parking brake switch
5. Direction lever
6. Meter panel
7. Turn signal (If equipped) / light switch
8. Lift lever
9. Tilt lever
10. Attachment lever
11. Key switch
12. Engine oil warning icon
13. Side panel
14. Accelerator pedal
15. Brake pedal

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▶ Universal Joint

Lubricate

Lubricate the universal joint.



▶ Grease Nipples

Lubricate

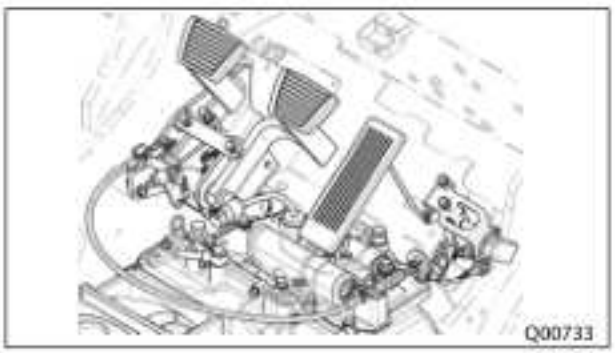
Lubricate grease nipples of king pins and tie rod pins. See 11-49 "King Pins" and 11-49 "Tie Rod Pins" for locations

◆Every 1000 Service Hours or 6 Months, Whichever Comes First

▶ Brake/Inching Pedal Rod

Lubricate

Lubricate the brake/inching pedal rod.



▶ Water Pump (Diesel Model)

Check

⚠ CAUTION

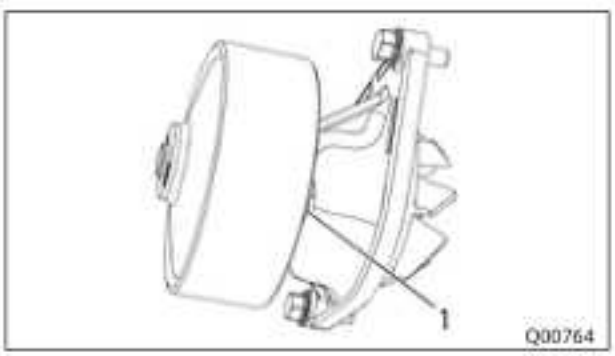
A failed water pump may cause severe engine overheating problems that could result in the following conditions:

- Cracks in the cylinder head
- A piston seizure
- Other potential damage to the engine

Visually inspect the water pump for leaks.

Note:

- The water pump seals are lubricated by the coolant in the cooling system.
- If engine coolant enters the engine lubricating system, the lubricating oil and the engine oil filter must be replaced. Draining will remove any contaminate and will prevent any irregular oil samples.



1. Weep hole

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Item			Truck model				
			GP40N	GP45N	GP50CNB	GP50N	GP55N
Alternator drive belt deflection when pushed with 98 N (10 kgf) [22 lbf] pressure			11 to 13 mm (0.43 to 0.51 in.)				
Spark plugs	Type - NGK		BPR4ES				
	Gap, mm (in.)		0.8 to 0.9 mm (0.032 to 0.035 in.)				
Engine idling speed (min-1)			680				
Steering wheel free play (when measured at rim with engine idling)			15 to 30 mm (0.59 to 1.18 in.)				
Inching pedal free play			3 to 6 mm (0.12 to 0.24 in.)				
Brake pedal free play			6 mm (0.23 in.)				
Tire size	Front tire	Single	8.25-15-14PR(1)	300-15-18PR (1)			
		Standard dual	7.50-16-12PR (1)				
		Special dual	8.25-15-14PR (1)				
	Rear tire		7.00-12-12PR (1)				7.00-12-14PR (1)
Tire pressure	Front tire	Single	800 kPa (8.17 kgf/cm^2) [116.04 psi]				
		Standard dual Special dual	700 kPa (7.14 kgf/cm^2) [101.54 psi]				
	Rear tire		700 kPa (7.14 kgf/cm^2) [101.54 psi]		850 kPa (8.67 kgf/cm^2) [123.30 psi]		1000 kPa (10.20 kgf/cm^2) [145.05 psi]
Tightening torque of wheel nuts	Front tire		600 ± 60 N·m (61.18 ± 6.12 kgf·m) [442.80 ± 44.28 lbf·ft]				
	Rear tire		377.3 N·m (38.47 kgf·m) [278.45 lbf·ft]				
Lift chain elongation limit (mm/20 links)			518 mm (20.4 in.)		648 mm (25.5 in.)		
Fuel tank capacity			87 L (22.99 US gal.)	105 L (27.74 US gal.)			
Engine cooling system (0.65 liter [0.17 US gal.] reservoir tank included)			15.95 L (4.21 US gal.)				
Engine oil	Crankcase		8.1 L (2.14 US gal.)				
	Oil filter		0.3 L (0.08 US gal.)				
	Total		8.4 L (2.2 US gal.)				
Transmission oil			17 L (4.5 US gal.)				
Transfer and differential gear oil level			7.9 L (2.1 US gal.)				
Hydraulic oil	N level		72 L (19.0 US gal.)		81 L (21.4 US gal.)		
Cooling oil level inside wet disc brake (if equipped)			8.9 L (2.4 US gal.)				

Note: The service data are subject to change without notice.

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