CAT® Lift Trucks

Service Manual

Chassis & Mast

FC/MC

EP16CPN	ETB27-00011-01999 / ETB27-02001-49999
EP18CPN	ETB27-50011-51999 / ETB27-52001-99999
EP16PN	ETB28-00011-01999 / ETB28-02001-49999
EP18PN	ETB28-50011-51999 / ETB28-52001-99999
EP20PN	ETB29-00011-01999 / ETB29-02001-99999

99759-6M120

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Chapter 1 GENERAL INFORMATION

1. Model View 1-1
2. Lift Truck Models Covered 1-1
3. Serial Number Locations 1-2
4. Specifications 1-3

Chapter 2 ELECTRICAL COMPONENTS

1. Console 2-1
   1.1 MC Model 2-1
   1.2 FC Model 2-2
2. Disassembling Console 2-3
   2.1 Disassembling Sequence 2-3
   2.2 Suggestions for Disassembly 2-4
3. Assembling Console 2-5
4. Meter panel 2-5
   4.1 Functions of Meter panel 2-5
   4.2 Adjusting and Setting of Meter panel 2-10
   4.3 Diagnostic Code List 2-23
5. Key Switch 2-24
6. Lighting Switch (Rear Working Light) 2-24
   6.1 Lights 2-25
   6.2 Specification Chart 2-25
7. Horn Switch and Battery Disconnect Switch 2-26
   7.1 MC Model 2-26
   7.2 FC Model 2-26
8. Troubleshooting of Lighting and Horn Systems 2-27
9. Parking Brake Switch 2-28
10. Combination Switch 2-29
   10.1 Direction lever 2-30
   10.2 Light Switch, Turn Signal Switch (option) 2-30
11. Disassembling Accelerator Control 2-31
   11.1 Disassembling Sequence 2-31
   11.2 Adjusting 2-32
12. FC Armrest 2-33
   12.1 Lift Switch 2-34
   12.2 Tilt Switch 2-34
   12.3 Armrest FNR Switch (FC Model Option) 2-35
   12.4 Forward and Backward Adjustment 2-35
   12.5 Up and Down Adjustment 2-35
13. Foot Direction Control (Option) 2-36
14. Dual Pedal (Option) 2-37
15. Fuses 2-40

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Chapter 3 POWER TRAIN

1. Removing Battery 3-1
2. Removing Front Wheels 3-2
3. Removing Transfer Assemblies, Traction Motors 3-3
4. Installing Transfer Assemblies, Traction Motors and Calipers 3-4
5. Service Data 3-6

Chapter 4 TRANSFER UNITS

1. Specifications 4-1
2. Structure 4-1
   2.1 External View 4-1
   2.2 Structure 4-2
3. Disassembling Transfer Units 4-3
   3.1 Preparation 4-3
   3.2 Disassembly Sequence 4-3
4. Inspecting Transfer Units 4-9
5. Assembling Transfer Units 4-10
   5.1 Assembly Sequence 4-10
6. Service Data 4-17

Chapter 5 REAR AXLE

1. Structure 5-1
   1.1 Rear Axle 5-1
   1.2 Steering Cylinder 5-2
2. Removing Rear Wheels 5-3
   2.1 Earth wire 5-3
   2.2 Preparation 5-4
   2.3 Removing Wheels 5-4
3. Installing Rear Wheel 5-5
4. Removing Rear Axle Assembly 5-6
   4.1 Preparation 5-6
   4.2 Removal Sequence 5-7
   4.3 Suggestions for Removal 5-7
5. Installing Rear Axle Assembly 5-8
6. Disassembling Rear Axle Assembly 5-9
   6.1 Disassembly Sequence 5-9
   6.2 Suggestions for Disassembly 5-10
7. Inspection Rear Axle Assembly 5-11
8. Installing Steering Cylinder and Hydraulic Pipe 5-12
   8.1 Installation Sequence 5-12
9. Assembling Knuckle and Kingpin 5-13
   9.1 Assembly Sequence 5-13
   9.2 Suggestions for Assembly 5-14

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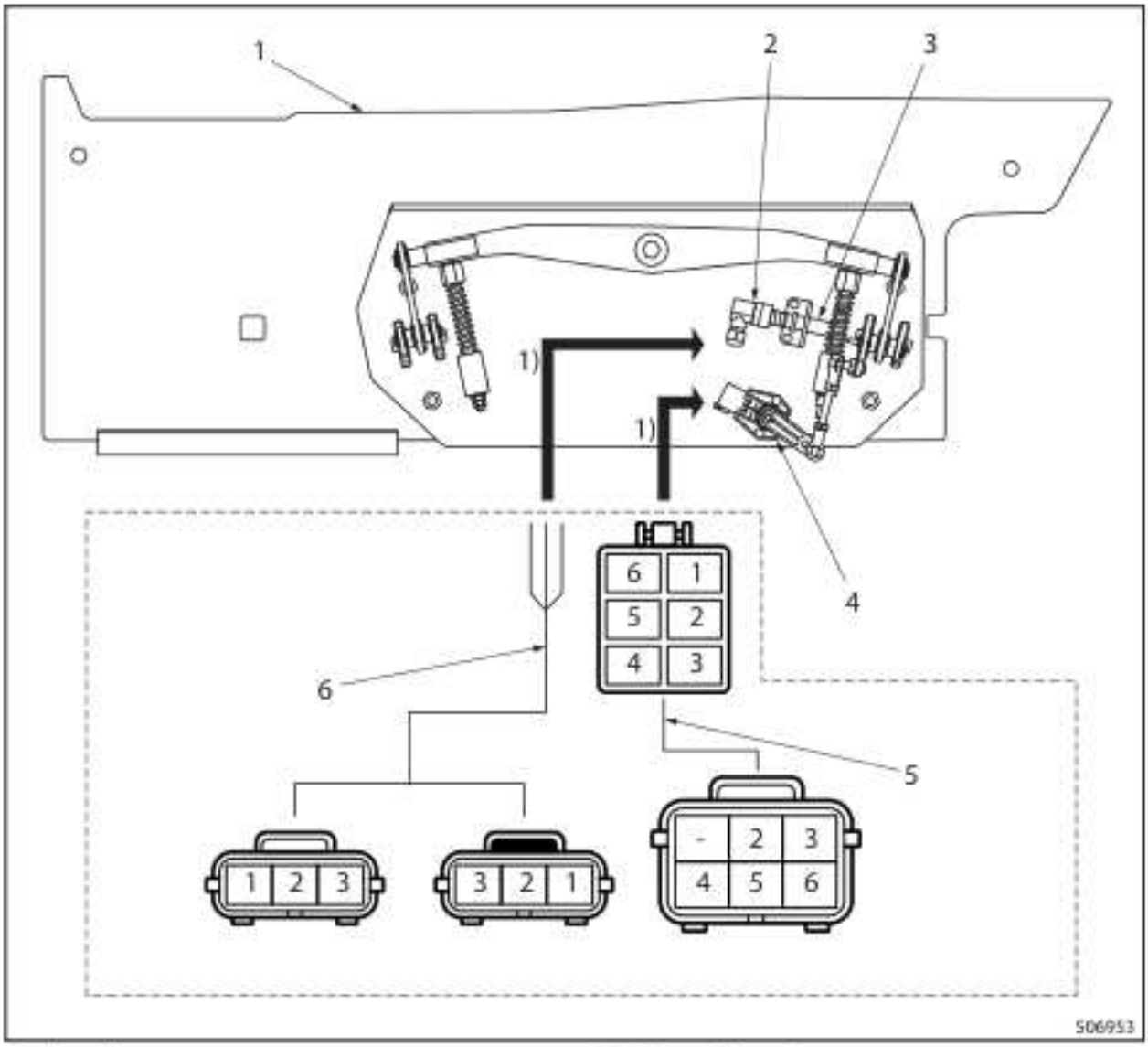
10. Assembling Rear Axle Hub 5-16
10.1 Assembly Sequence 5-16
10.2 Suggestions for Assembly 5-17
11. Removing Steering Sensor 5-19
12. Installing Steering Sensor Assembly 5-19
13. Disassembling Steering Cylinder 5-20
13.1 Disassembly Sequence 5-20
13.2 Suggestions for Disassembly 5-21
14. Inspecting Steering Cylinder 5-21
15. Assembling Steering Cylinder 5-22
15.1 Assembly Sequence 5-22
15.2 Suggestions for Assembly 5-23
16. Adjustment 5-24
16.1 Adjusting of Steering Sensor 5-24
16.2 Adjusting of Minimum Turning Radius 5-24
17. Troubleshooting 5-26
18. Service Data 5-27
18.1 Rear axle 5-27
18.2 Steering cylinder 5-28

Chapter 6 BRAKE SYSTEM

1. Specifications 6-1
2. Structure 6-2
2.1 Outline of Brake System 6-2
2.2 Brake Pedal Assembly 6-3
2.3 Electro-magnetic Brake Assembly 6-5
3. Removing Master Cylinder 6-5
3.1 Removal Sequence 6-5
4. Disassembling Master Cylinder 6-6
4.1 Disassembly Sequence 6-6
5. Inspecting and Adjusting Master Cylinder 6-7
6. Assembling Master Cylinder 6-10
7. Inspecting and Adjusting Brake Pedal Assembly 6-10
8. Adjusting and Manual Release of Electro-Magnetic Brake 6-12
9. Troubleshooting 6-14
9.1 Brake Pedal Assembly 6-14
9.2 Parking Brake 6-15
10. Service Data 6-16
10.1 Brake Pedal 6-16
10.2 Master Cylinder 6-17

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Back side of dual pedal assembly



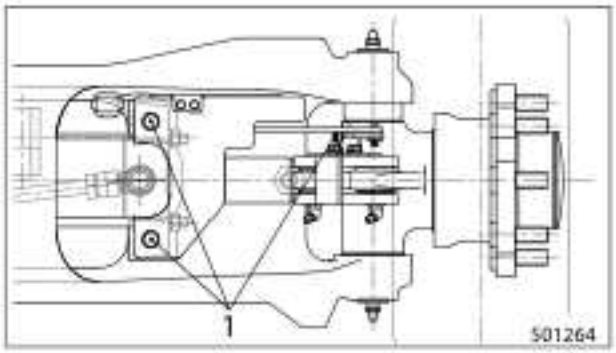
1. Floor plate
2. Sensor connector
3. Proximity sensor
4. Accel sensor
5. Harness for accel sensor
6. Harness for proximity sensor

1) Connect

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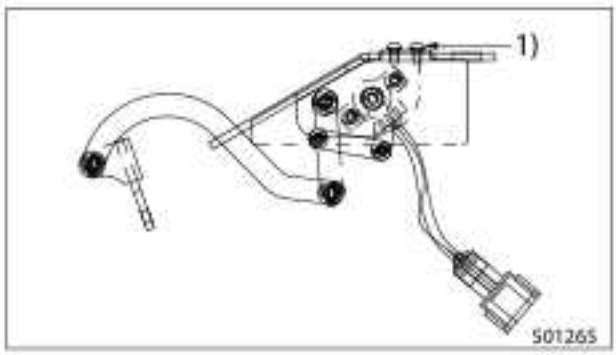
11. Removing Steering Sensor

(1) Remove the bolts.



1. Bolts

(2) Remove the Steering sensor assembly.



Ref.	Tightening torque
1)	1.57 to 2.35 N·m (0.16 to 0.24 kgf·m) [1.16 to 1.73 lbf·ft]

12. Installing Steering Sensor Assembly

Follow the removal sequence in reverse.

Do not touch the sensor connector pin.

The function of sensor may be destructed by static electricity.

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1.2 FC model

Item			Specification
Hydraulic system	Gear pump	Type	Gear pump
		Model type	TMG1-18
		Rated discharge volume	18.9 cc/rev. (1.15 cu.in./rev.)
		Drive system	Direct connection with pump motor
	Control valve	Main relief pressure	18.6 ± 0.2 MPa (189.67 ± 2.04 kgf/cm^2) [2697.7 ±29.0 psi]
	Simplex Mast (Dual-stage Panoramic Mast) lift cylinder	Inside diameter	45 mm (1.77 in.)
		Stroke	1645 mm (64.76 in.)
	Simplex Mast (Dual-stage Panoramic Mast) tilt cylinder	Inside diameter	60 mm (2.36 in.)
		Stroke	2000/2560, 4480/5000 : 70 mm (2.76 in.) 2760 - 4090 : 88 mm (3.46 in.) 5500/6000 : 59 mm (2.32 in.)
	Duplex Mast (Dual-stage Full Free Panoramic Mast) first lift cylinder	Inside diameter	45 mm (1.77 in.)
		Stroke	850 mm (33.46 in.)
	Duplex Mast (Dual-stage Full Free Panoramic Mast) second lift cylinder	Inside diameter	45 mm (1.77 in.)
		Stroke	1595 mm (62.80 in.)
	Duplex Mast (Dual-stage Full Free Panoramic Mast) tilt cylinder	Inside diameter	60 mm (2.36 in.)
		Stroke	77 mm (3.03 in.)
	Triplex Mast (Triple-stage Panoramic Mast) first lift cylinder	Inside diameter	45 mm (1.77 in.)
		Stroke	875 mm (34.45 in.)
	Triplex Mast (Triple-stage Panoramic Mast) second lift cylinder	Inside diameter	45 mm (1.77 in.)
		Stroke	1180 mm (46.46 in.)
	Triplex Mast (Triple-stage Panoramic Mast) tilt cylinder	Inside diameter	60 mm (2.36 in.)
		Stroke	3710 - 4750 : 77 mm (3.03 in.) 5090 - 7000 : 59 mm (2.32 in.)
	Operating oil volume	Low level	12.1 L (3.20 U.S. gal)
		High level	13.3 L (3.51 U.S. gal)

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