CAT® Lift Trucks

Operation & Maintenance Manual

FC/MC

EP13PNT	ETB21-00011-01999 / ETB21-02001-49999
EP15PNT	ETB21-50011-51999 / ETB21-52001-99999
EP16CPNT	ETB22-00011-01999 / ETB22-02001-49999
EP18CPNT	ETB22-50011-51999 / ETB22-52001-99999
EP16PNT	ETB23-00011-01999 / ETB23-02001-49999
EP18PNT	ETB23-50011-51999 / ETB23-52001-99999
EP20PNT	ETB24-00011-01999 / ETB24-02001-99999

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

Original Instructions

Keep this manual in your lift truck as a ready reference **99750-6M120**

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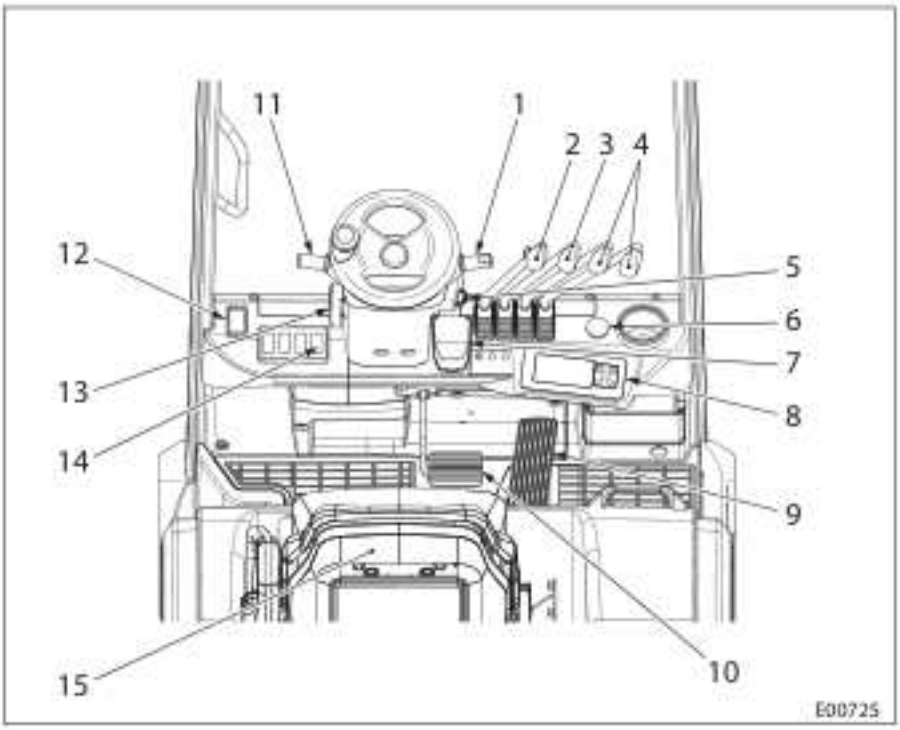
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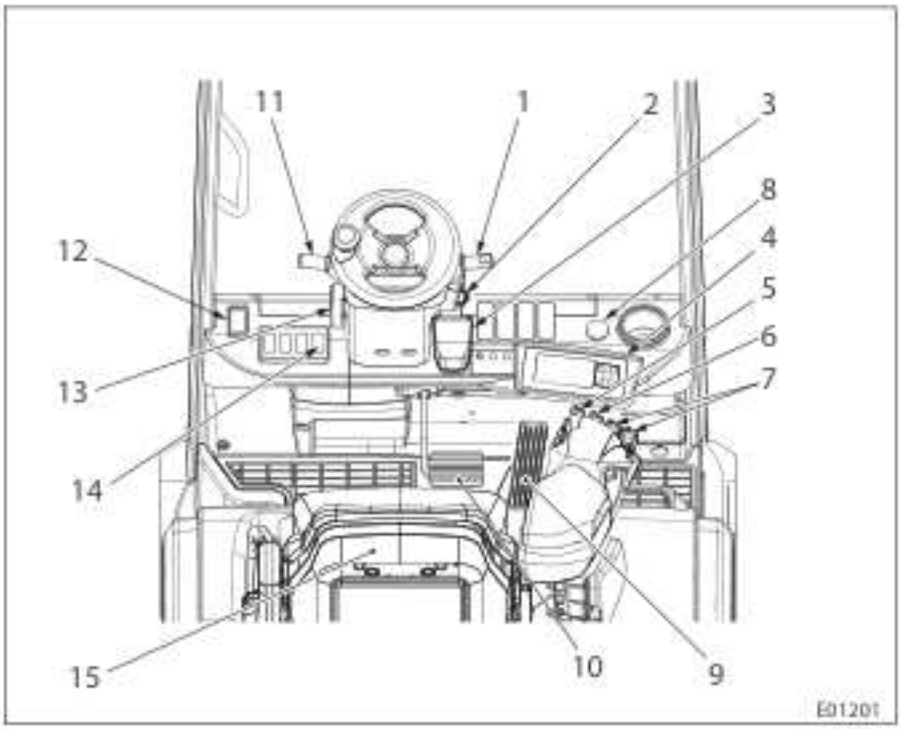
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▶ MC Model



1. Turn Signal / Light Switch
2. Lift Lever
3. Tilt Lever
4. Attachment Lever
5. Key Switch
6. Battery Disconnect Switch
7. Tank Panel
8. Meter Panel
9. Accelerator Pedal
10. Brake Pedal
11. Direction Lever
12. Parking Brake Switch
13. Steering Column Tilt Lever
14. Rear Work Light Switch
15. Operator Seat

▶ FC Model



1. Turn Signal / Light Switch
2. Key Switch
3. Tank Panel
4. Meter Panel
5. Lift Switch
6. Tilt Switch
7. Attachment Switch
8. Battery Disconnect Switch
9. Accelerator Pedal
10. Brake Pedal
11. Direction Lever
12. Parking Brake Switch
13. Steering Column Tilt Lever
14. Rear Work Light Switch
15. Operator Seat

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■ MAINTENANCE

◆ General

Taking proper care of your lift truck is a vital part of the overall planned maintenance program. Your participation in this program will provide an early identification of potential maintenance problems. Do-it-yourself maintenance does not include repairs. If your lift truck requires any repairs, contact your authorized Cat lift truck dealer. The mechanics of Cat lift truck dealers are well trained and know how to safely make repairs.

⚠ WARNING

Follow these rules to help save you from injury and to service your lift truck properly.

- Make sure the service area is safe.
- Park the lift truck on a hard and level surface with the forks lowered until the forktips touch the ground, parking brake applied, direction lever in the NEUTRAL position, traction motor stopped, and the wheels blocked.
- All repairs must be made by authorized personnel.
- Follow the recommended safety procedures.
- Use only the right tools for the job.

⚠ WARNING

- DO NOT bypass any electrical switches on this lift truck.
- When leaving the engine running without being in the operator seat, for instance, to check or repair the lift truck, BE SURE to use the DIAGNOZER* service tool.
- When you repair the lift truck with the DIAGNOZER service tool, always contact your Cat lift truck dealer in advance.

*DIAGNOZER is a service tool that is connected to the lift truck's electrical controller. It is used to check the status of the controls for the entire lift truck.

⚠ WARNING

If during operation the lift truck becomes unsafe in any way, the matter must be reported immediately to the user's designated authority, and the lift truck must not be operated until it has been restored to a safe operating condition.

⚠ WARNING

BE SURE to perform inspections.

- If you fail to perform required inspections, it could lead to accidents.
- Operate the lift truck at a reduced speed during inspections. An accident could be caused if operated at normal speed and the lift truck is faulty.
- Dress properly for the job. DO NOT wear loose clothing or accessories such as flapping cuffs, dangling chains, neckties, scarves, or rings that could catch in moving parts.
- Wear personal protective equipment appropriate for the conditions of your work places.

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◆ Specifications (Standard Models)

▶ 3 Wheel Model

Item				Truck model						
				EP13PNT	EP15PNT	EP16CPNT	EP18CPNT	EP16PNT	EP18PNT	EP20PNT
Battery voltage				48 V						
Battery electrolyte gravity				1.28						
Steering wheel free-play				15 to 30 mm (0.6 to 1.2 in.)						
Brake pedal free play				5 to 7 mm (0.20 to 0.28 in.)						
Tire size	Front	Solid pneumatic	Tire	18 x 7-8						200/50-10
			Rim	4.33R-8						6.50F-10
		Pneumatic	Tire	18 x 7-8 16PR 1,000 kPa (10.20 kgf/cm^2) [145.04 psi]						Not available
			Rim	4.33R-8						
		Cushion	Tire	18x7-12 1/8						
			Rim							
	Rear	Solid pneumatic	Tire	140/55-9						
			Rim	4.00E-9						
		Pneumatic	Tire	15x4.5-8 12PR 1,000 kPa (10.20 kgf/cm^2) [145.04 psi]						Not available
			Rim	3.00D-8						
		Cushion	Tire	15x5x11.25						
			Rim							
Tightening torques for wheel nuts		Front		216 to 264 N·m (22 to 27 kgf-m) [159.3 to 194.7 lbf-ft]						
		Rear								
Lift chain length limit/20 links				327 mm (12.87 in.)						392 mm (15.43 in.)
Transfer				0.53 L (0.14 U.S. gal)						
Hydraulic tank		-Simplex mast (less than 6000 mm (236.22 in.) -Duplex mast (less than 4000 mm (157.48 in.) -Triplex mast (less than 6000 mm (236.22 in.)		MIN: 12.1 L (3.20 U.S. gal) MAX: 13.3 L (3.51 U.S. gal)						
Brake fluid reservoir tank				MIN: 60 cc (3.66 cu in.) MAX: 102 cc (6.22 cu in.)						
Rear axle				0.35 L (0.09 U.S. gal)						

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