



Service Manual

Chassis, Mast

EP13TCA

215AF0001-up

EP15TCA/18TCA

216AF0001-up

EP20TCA

288AD0001-up

4- 2. Rear tyre

4-2-1. Rear tyre - disassembly and reassembly

●EP13TCA-18TCA

Rim bolt and Nut

Hub bolt and Nut

Tightening torque	
68.5 - 78.5 N · m	
{ 7 - 8 kgf · m }	

Tightening torque	
88.2 - 108 N · m	
{ 9 - 11 kgf · m }	

●EP20TCA

Rim bolt and Nut

Hub bolt and Nut

Tightening torque	
88.2 - 108 N · m	
{ 9 - 11 kgf · m }	

Tightening torque	
216 - 264 N · m	
{ 22 - 26.9 kgf · m }	

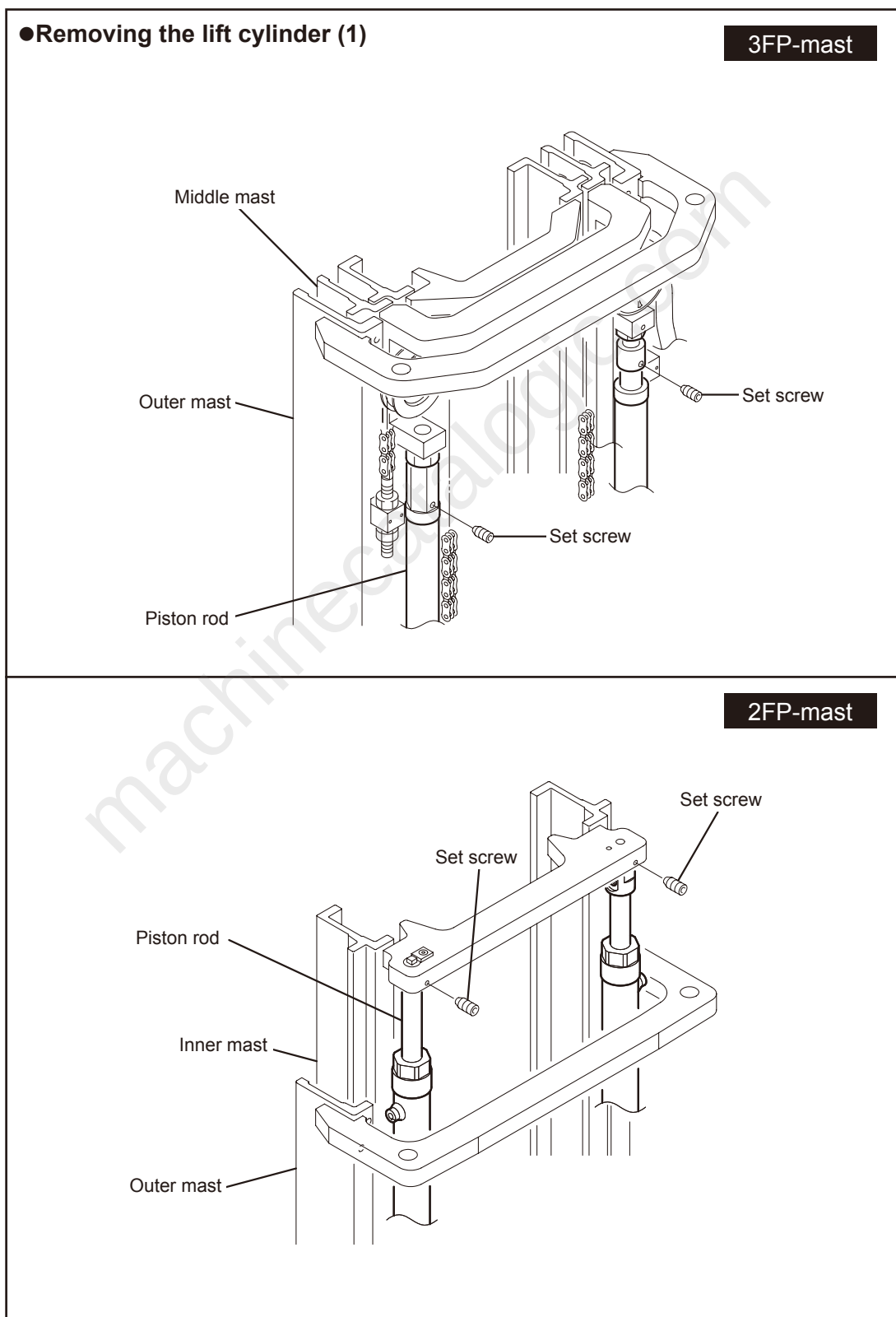
: Tightening torque

4-2-2. Tyre size (rear)

Model	Size
EP13TCA-15TCA	15 x 4 1/2-8-12PR(Std)
	15 x 4 1/2-8 SOLID(Opt)
EP18TCA	15 x 4 1/2-8 SOLID(Std)
EP20TCA	16 x 6-8-10PR(Std)
	16 x 6-8 SOLID(Opt)

7d-1-2. Lift cylinder - removal : 2FP-mast (2-stage duplex), 3FP-mast (3-stage triplex)

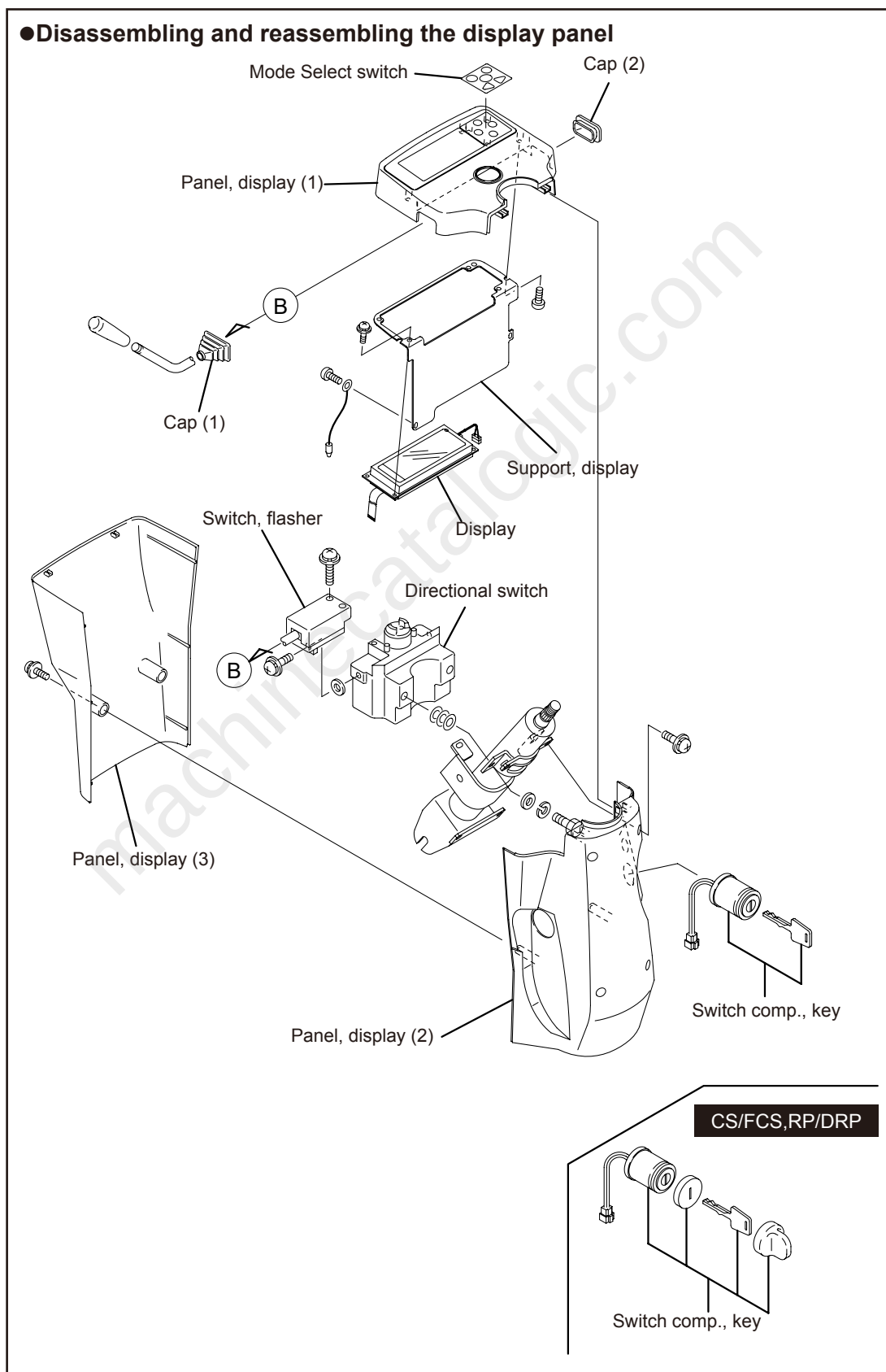
1. Pull the lift lever backward to raise the middle/inner mast about 50 mm.
2. Support the middle/inner mast with a wire rope or wood block.
3. Remove set screws that fix the piston rod.



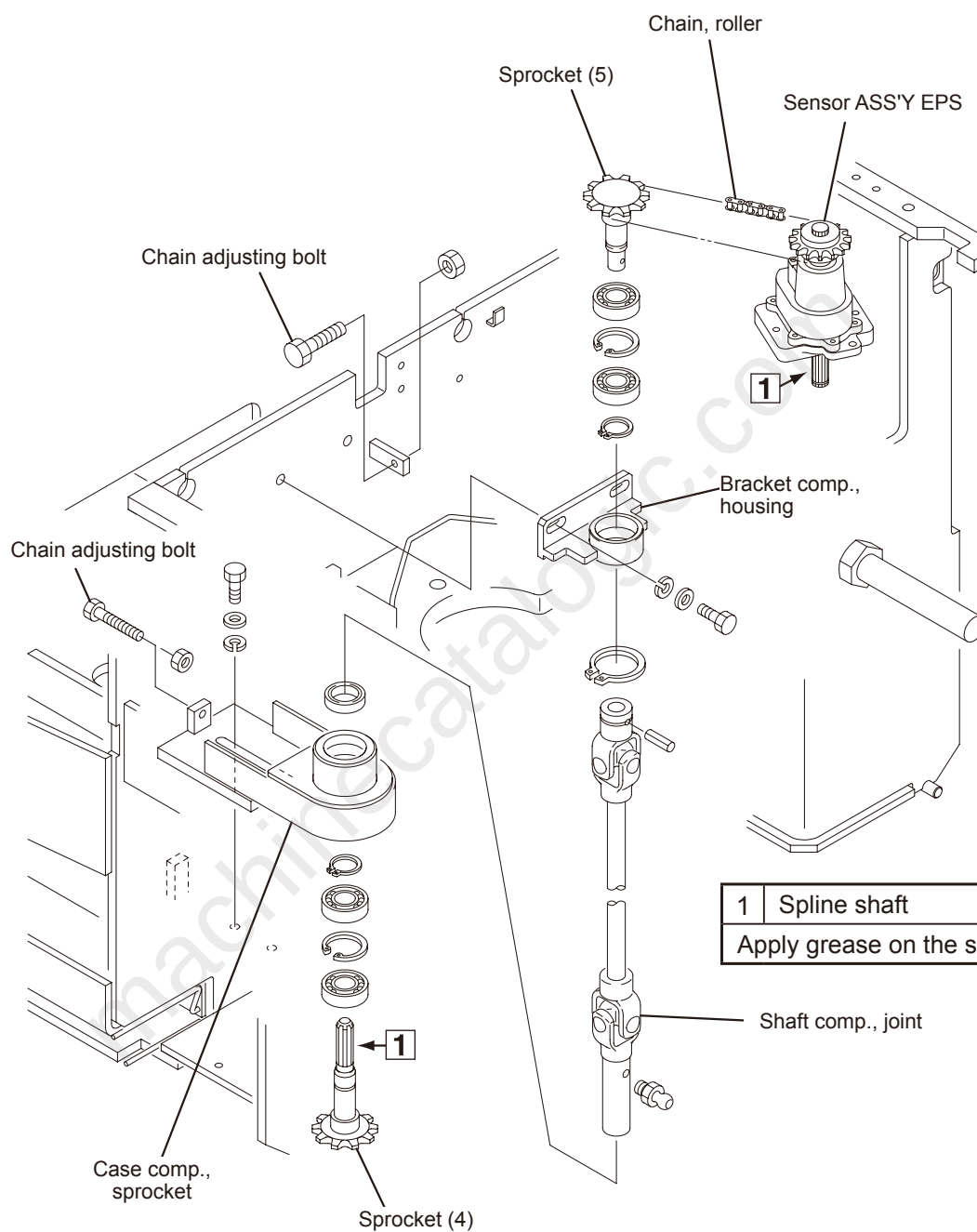
10c. DISPLAY PANEL AND DIRECTIONAL SWITCH

10c-1. Disassembly and reassembly

10c-1-1. Display panel - disassembly and reassembly



●Disassembling and reassembling the steering linkage (3)



9- 2. Inspection and adjustment

9-2-1. Rotor comp. (Traction/Hydraulic motor) - inspection and replacement

▶ 1 Inspection for damage

1. Check the rotor comp. for damage, especially for burning.

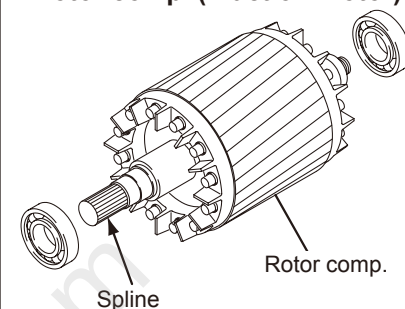
➔ If it is damaged, replace it.

▶ 2 Inspection of spline

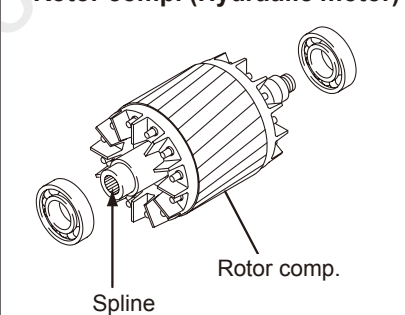
1. Check for wear of spline.

➔ If it is extremely worn, replace it.

●Rotor comp. (Traction motor)



●Rotor comp. (Hydraulic motor)

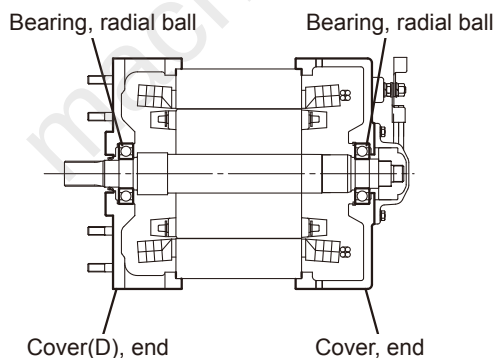


▶ 3 Inspection of ball bearing

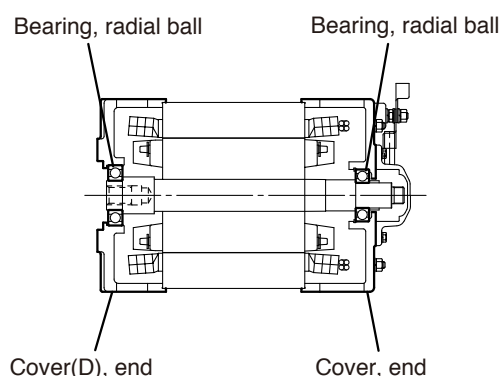
1. Check fitting part of the bearing in the "cover, end" and the "cover(D), end".

➔ If loose, replace them.

●Inspection of fitting parts (Traction motor)

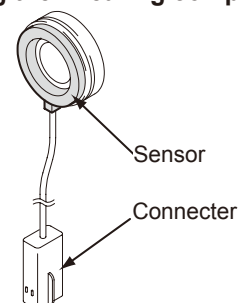


●Inspection of fitting parts (Hydraulic motor)



- When replacing the "bearing comp., sensor", be very careful not to damage the sensor. If the sensor is damaged, the motor will not operate correctly.
- Because the bearing sensor is very sensitive for the static electricity, do not touch any terminals in the connector directly.

●Replacing the "Bearing comp., sensor"



Full Version Available

Caterpillar EP15TCA Forklift Service Manual (99N19-60100)

Caterpillar EP15TCA forklift service manual, covers hydraulics, wiring, drive systems, and controller diagnostics. Searchable PDF download.

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