



Service Manual

Chassis & Mast

EP10/14/15/18(H)CA1(J)

EP20/25(H)CA1(J),EP28CA1(J)

EP30CA1(J)

221E20001-up 256E00792-up

241C10001-up 257C01120-up

251AC2001-up

6- 3. Inspection and adjustment



Wheel brake is very important for safe operation.
Always replace Wheel brake whenever it is damaged.

6-3-1. Wheel brake - inspection and adjustment

1. Check for Brake drum inner surface streaks, uneven wear, and cracks.

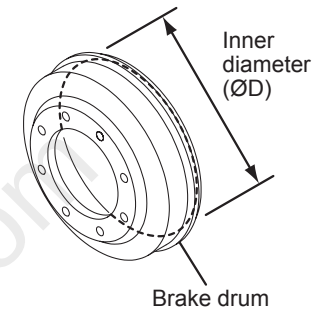


If there are streaks or partial wear, repair or replace Brake drum based on the allowable limits in the table below.

● Inner diameter of Brake drum

Applicable model	Specified dimension(ØD)	Repair limit (ØD)
EP10CA1-18CA1	10-inch (254mm)	256mm
EP20CA1-28CA1	11-inch (279.4mm)	281.4mm
EP30CA1	310mm	312mm

● Inspecting Brake drum



2210036

6-3-2. Shoe and lining - inspection and replacement

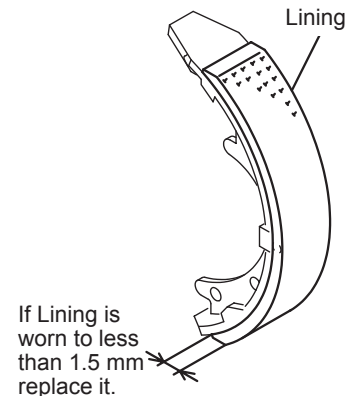
1. Measure the thickness of Lining
 - ▶ If Lining is worn to less than 1.5mm, replace it.



Measure Lining at the point with the most wear.

2. Check for stains, burnout and deterioration.
 - ▶ If you find any abnormalities, replace Lining.
3. Check for cracks and damage.
 - ▶ If you find any burrs, remove them.
 - ▶ If you find any abnormalities, replace lining.

● Inspecting Shoe and lining



212E052

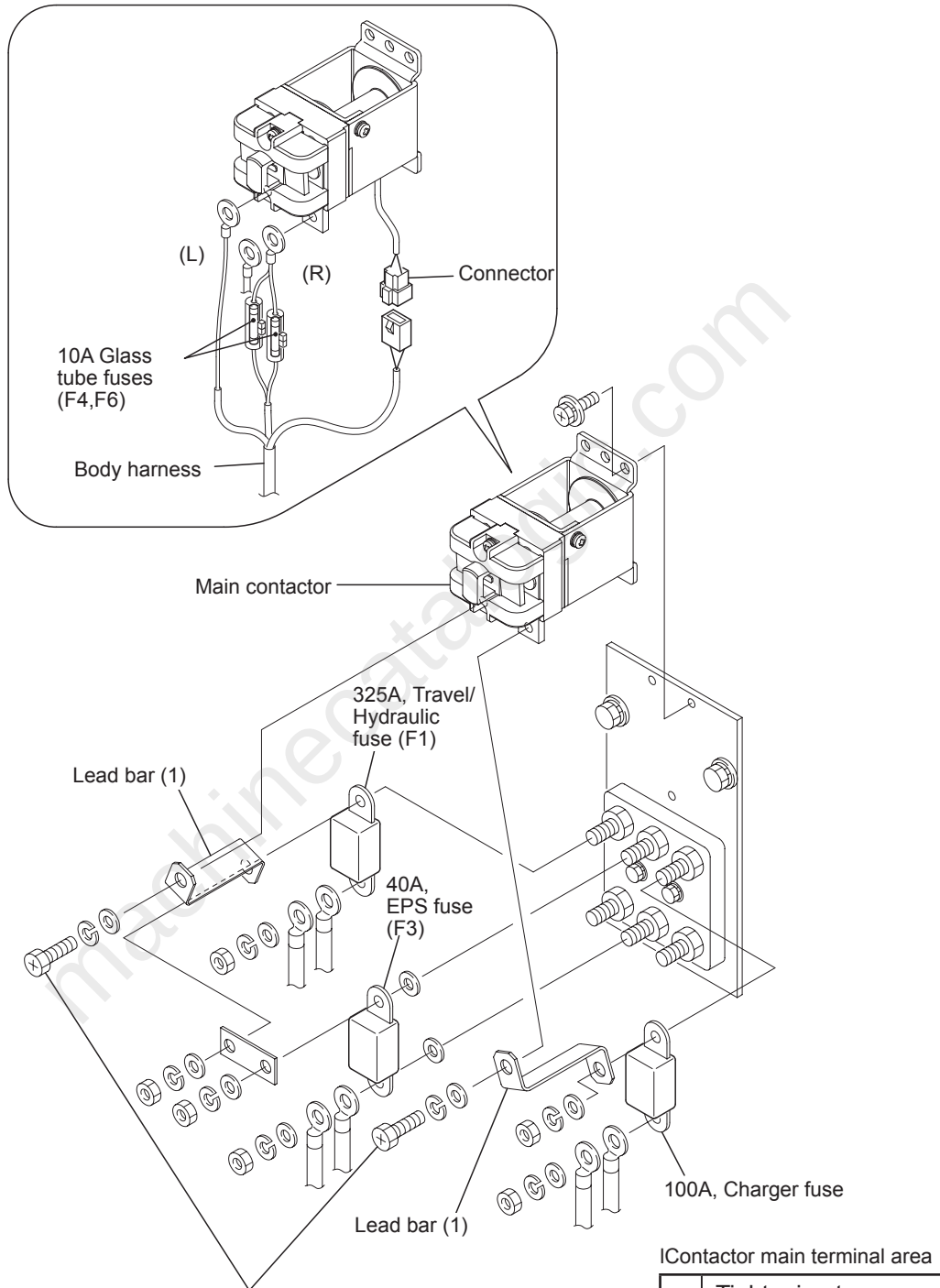
MEMO

A blank sheet of white paper with horizontal ruling lines. The word "MEMO" is printed in bold black capital letters at the top left. A diagonal watermark reading "machinecatalogic.com" is visible across the center of the page.

2. Remove Main contactor and Fuses.

1. Disconnect wiring connectors of Main contactor and lead wires.
2. Refer to the diagram below and remove Main contactor and all fuses.

●Removing Main contactor and Fuse



 : Tightening torque

Tightening torque
6.4 - 7.4 N · m
{0.65 - 0.75 kgf · m}
Use a bolt included attached on Main contactor.

221W1026

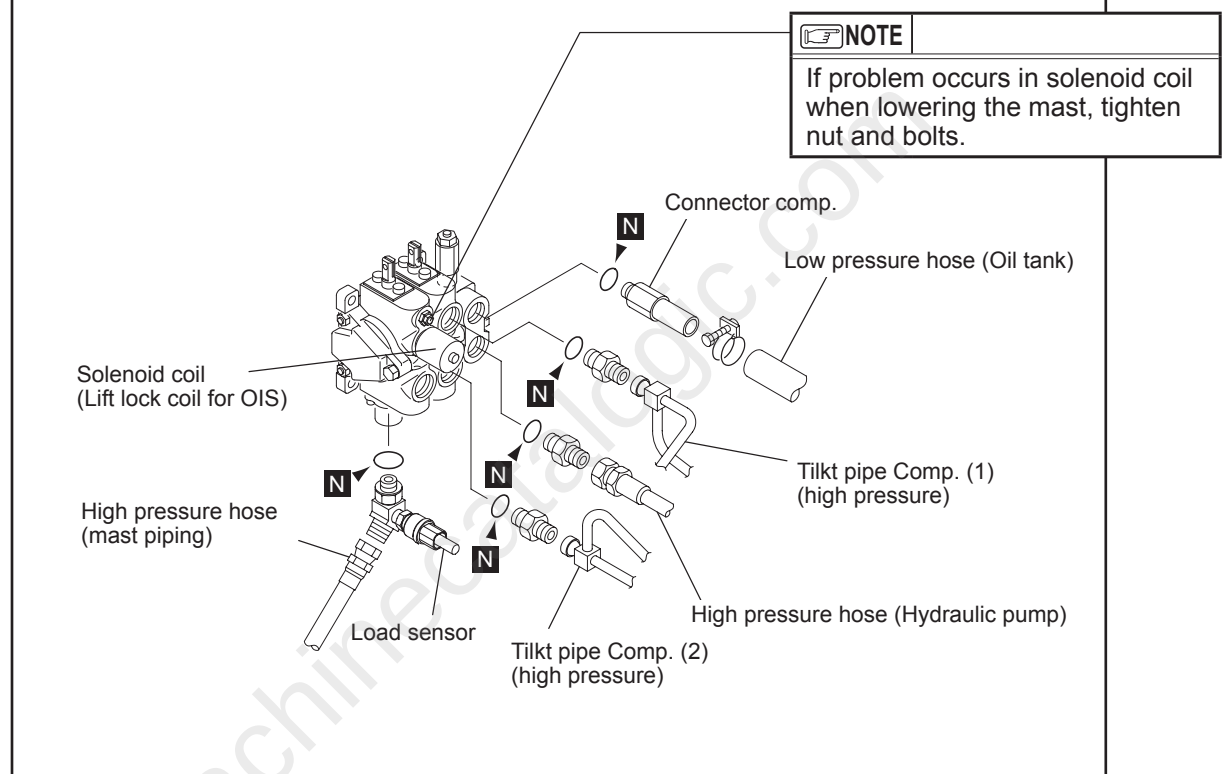
* Install Main contactor and fuse in reverse order of removal.

2. Disconnect pipes and hoses shown in the following illustration.



Before removing a high pressure hose or a high pressure pipe, push Lift lever forward for several times (fork downward operation) while keeping the key switch ON, and remove the pressure inside the pipe. Do not perform any lever operation other than the lift downward lever operation, because the pressure is applied when oil hydraulic motors are operated.

● Disconnecting Hydraulic pipe and Hose

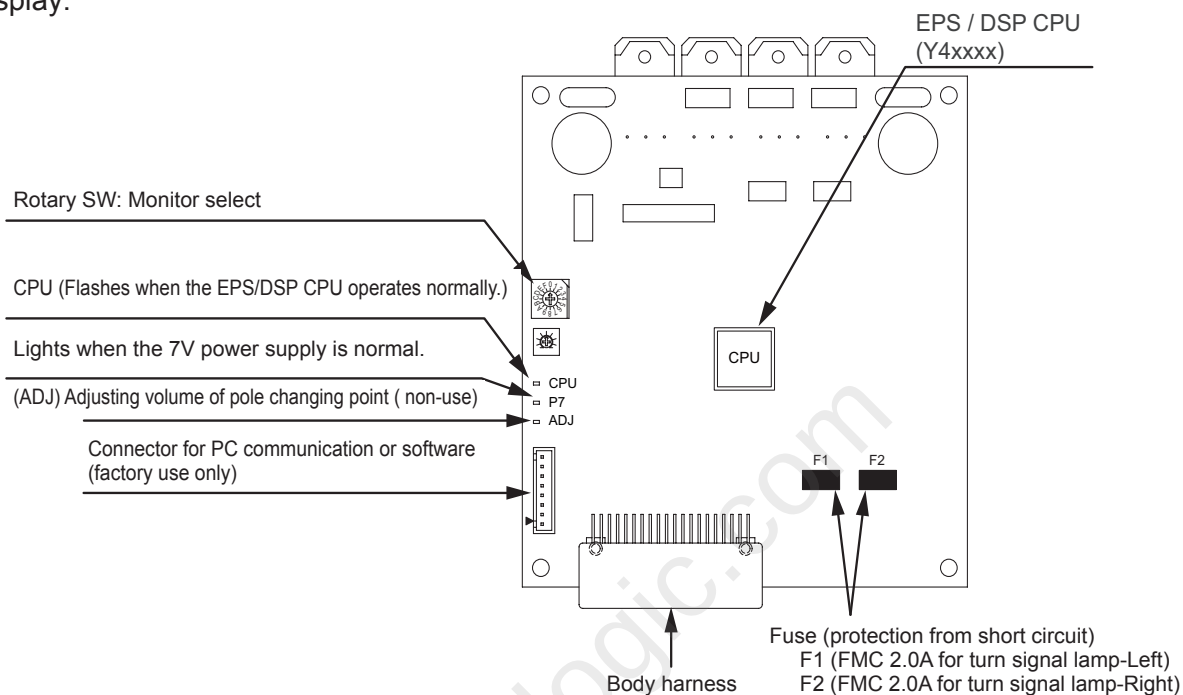


Do not touch the terminals of load sensor by dry hand.

3. Remove Snap pins and Valve pins to remove Valve linkage.

10b-1-2. EPS controller

This controls data shared between each board and the display.



221W1030E



Even when the key is turned OFF, the battery sends current to EPS controller. Before working, always disconnect Battery plug.

<EPS controller model>

Applicable model	Vehicle body specification	EPS controller model	Printed board model
EP10CA1 - 28CA1	STD	CU114-50	PB112-40x / PB113-50x
	CS	CU114-52	PB112-41x / PB113-51x
EP30CA1	STD	CU114-51	PB112-42x / PB113-52x
	CS	CU114-53	PB112-43x / PB113-53x

Full Version Available

Caterpillar EP15CA1(J) Forklift Service Manual (99759-6R110)

Caterpillar EP15CA1(J) forklift service manual, covers hydraulics, drive unit, wiring, and electric truck repairs. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/caterpillar-ep15ca1j-forklift-service-manual-99759-6r110/>