

Service Manual

Controller

FB10/14/15/18(H)CA1(J)

FB20/25(H)CA1(J),FB28CA1(J)

FB30CA1(J)

221E20001-up 256E00792-up

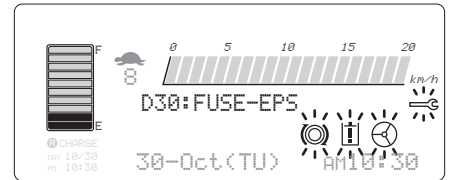
241C10001-up 257C01120-up

251AC2001-up

15. Service icon (wrench mark)

The service icon alerts the operator about a forklift truck malfunction.

If the system detects a malfunction, the wrench icon flashes and the presumed defective part name appears in the display. If the malfunction concerns more than one part, the display scrolls the part names at 5 second intervals.



215T0170E

CAUTION

- If the system detects the following malfunctions, all traveling, hydraulic, and power steering functions stop.

A01 : CONTACTOR
 B11 : FET-TRAVEL
 B12 : SENSOR-CURRENT TRAVEL
 C21 : FET-HYD.
 C22 : SENSOR-CURRENT HYD.
 E40 : TR-AOS
 G51 : *FAIL CURRENT-TRAVEL*
 G52 : *FAIL CURRENT-HYD.*
 G53 : *FAIL VOLTAGE-TRAVEL*
 G54 : *FAIL VOLTAGE-HYD.*

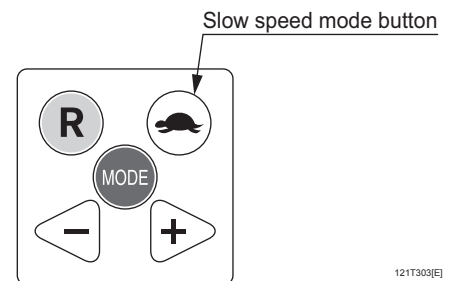
- The , , , buttons do not function when any of the above messages are displayed.

16. Mode select button

To change the screen to each mode, press these buttons.

< Slow speed mode button >

Press this button to activate the slow speed mode.



Mode select button

121T303(E)

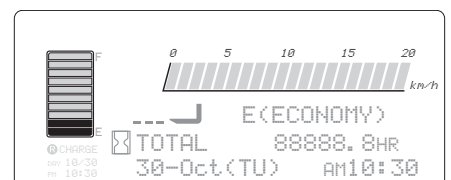
1. Normal traveling mode

When the slow speed mode is off, the Turtle icon () does not appear in the display.

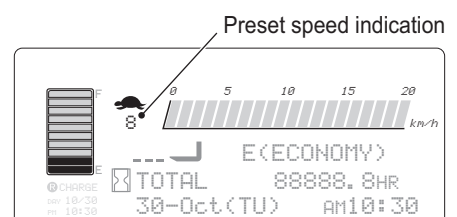
2. Slow speed mode

When the slow speed mode is activated, the Turtle icon () and preset speed appear in the display.

- You can change the maximum travel speed (normal mode) and pre-set speed (Turtle mode) by pressing the Turtle mode button.



When the slow speed button is off
(Turtle mark is not displayed)



When the slow speed button is on
(Turtle mark is displayed)

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(From the previous page)

The rotary switch No. flashes

Rotary switch mode setting flashes.

- Set by pressing $\rightarrow$ or $\leftarrow$ button (OFF/ON)
- ON : Normal
- OFF : Disable the rotary switch RS on the EPS controller. You change the setting with the mode select buttons.
- Press $\leftarrow$ or $\rightarrow$ button while pressing the mode button MODE to electrically change the position of the rotary switch.

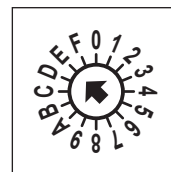
CAUTION

- When communication with travel, hydraulic, and EPS controller (display) board is not possible (due to the problems such as disconnection), software numbers are not displayed.
- If the buzzer mode is turned OFF, among all the buzzers, only the turn signal lamp buzzer activates.
- If the rotary SW mode is set to OFF, the rotary SW on the board is disabled. Then, you can change the rotary switch position electrically by pressing $\leftarrow$ or $\rightarrow$ button with the MODE button for at least 3 seconds.

6-2-3. Clearing the error history memory (memory initialization)

1. Set the rotary switch RS on the EPS controller to "E".
2. Turn on the key switch.
3. When the following screen appears, memory initialization is complete.
4. Return the rotary switch RS on the EPS controller to "0".

●EPS controller



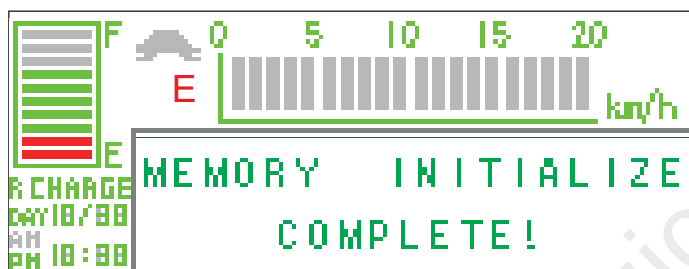
Set RS to "E".

When the rotary switch mode is set to OFF in the service setting,

ROTARY SW **OFF/ON**

Turn off the key switch once, and turn on it again. Memory is initialized.

● Memory Initialization Completion Screen



215T0334

NOTE

Initializing returns the following items to their initial values:

- Slow speed (turtle) : 5 km/h
- Travel mode : N (NORMAL)
- BRIGHTNESS (back light brightness) : 7
- Meter mode : HR (hour meter)
- Neutral regenerative brake : MID
- Pitching control : ON
- Error history : All clear

3-2-2. MPU board setting

<RS Model selection>

The rotary switch RS on the MPU board is used to select the forklift truck model.

When replacing the MPU board, be sure to refer to the table below in order to match the rotary switch with the corresponding forklift truck model.

<RS Model selection>

RS	Applicable forklift models
0	FB10CA1
1	FB14CA1/15CA1
2	FB18CA1
3	FB20CA1
4	FB25CA1
5	FB28CA1
6	FB30CA1
7	FB10HCA1
8	FB14HCA1/15HCA1
9	FB18HCA1
A	FB20HCA1
B	FB25HCA1
C	Not used
D	
E	
F	

<Dip switch selection>

DS	Setting	Remarks
1	Used	OFF: Standard ON: Inspection type
2	Not used	
3	Not used	
4	Not used	

<Volume setting : for proportional control valve current adjustment>

*For optional AOS / finger tip control only

Volume Vo.	Function	Remarks
VR1	Lift proportional control valve current adjustment	Turning the volume clockwise decreases the current
VR2	Attachment2 proportional control valve current adjustment	
VR3	Tilt proportional control valve current adjustment	
VR4	Attachment1 proportional control valve current adjustment	

Notice) Standard board does not have the volume.

Full Version Available

Mitsubishi FB25HCA1(J) Forklift Service Manual (99759-5S110)

Mitsubishi FB25HCA1(J) Forklift service manual, wiring, hydraulics, drive unit and diagnostics in searchable PDF. Instant PDF download.

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