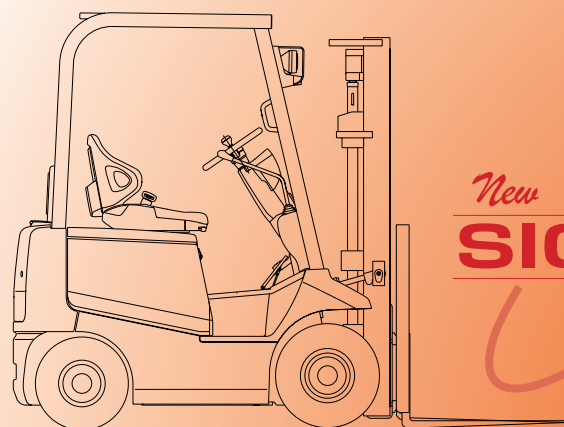


TROUBLESHOOTING MANUAL

FB-DC70 SERIES

FB 10P/15P/18P
20P/25P/30P



New
SICOS-60

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1. How to adjust SICOS60 (Major point only)

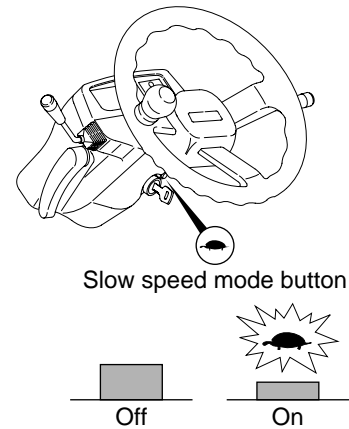
1-1 The name and function of mode select switch

① Slow speed mode button.

Change to traveling mode.

When the slow speed mode button is turned on, the speed is regulated to the preset speed. (5km/h–12km/h).

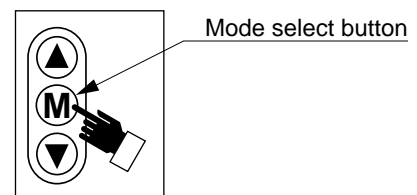
- ◇ When the slow speed mode button is turned on, the turtle mark is displayed on the monitor.



② Mode select button.

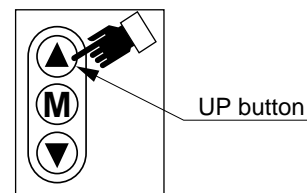
Change the select mode.

- Speed setting mode (SPEED)
- Power setting mode (POWER)
- Acceleration feeling mode (ACCEL)



③ Up button (2 functions)

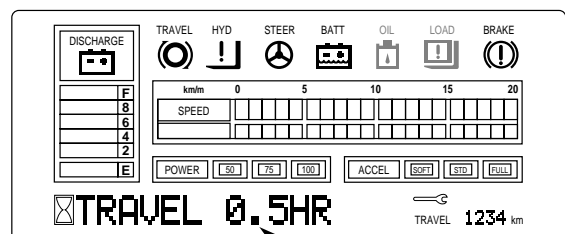
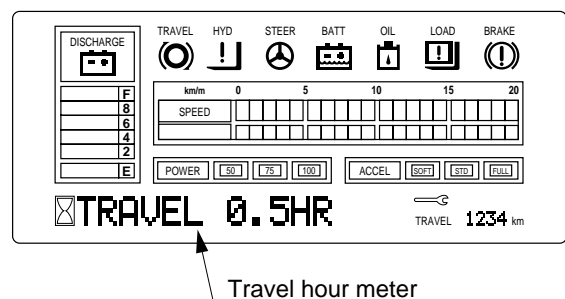
- Increase the parameter of each selected mode.



- Showing the travel hour meter.



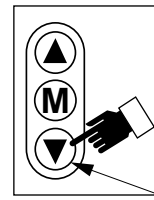
Be sure to check that the decimal point flashes when the hour meter counts by traveling or hydraulic operation.



④ **Down button (2 functions).**

- Decrease the parameter of each selected mode.

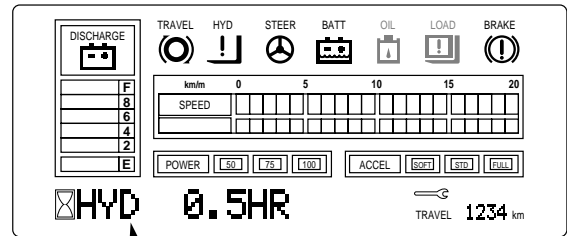
- Showing the hydraulic hour meter.



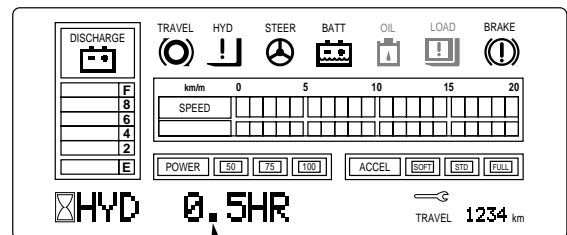
Down button



Be sure to check that the decimal point flashes when the hour meter counts by operating traveling or the hydraulic lever.



Hydraulic hour meter

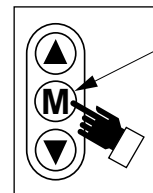


When hour meter counts, the decimal point flashes.

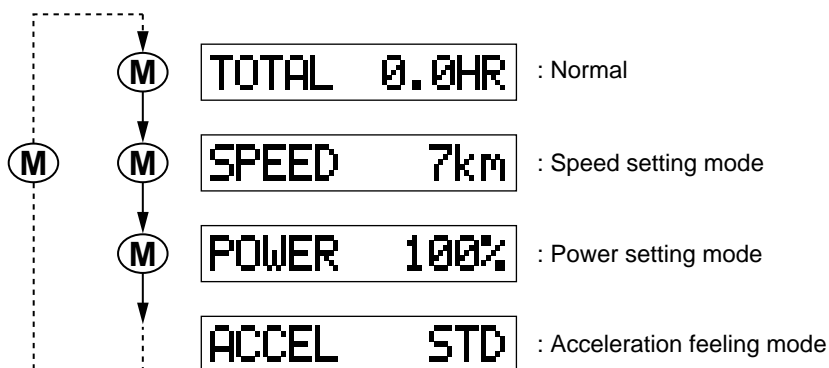
1-2 How to set the each mode

Press the mode select button (M) to adjust the each mode.

- ◇ The each mode can be changed by pressing the mode select button (M) as follows.



Mode select button



① Speed setting mode

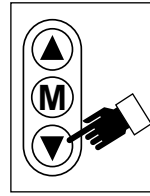
The travel speed can be set at 5km/h through 12km/h by every 1km/h.

Up ▲ button for increasing, Down ▼ button for decreasing.

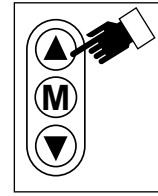


When the slow speed mode button is off, the travel speed can not be regulated even if it is set. Also no display of preset speed and the “turtle” mark.

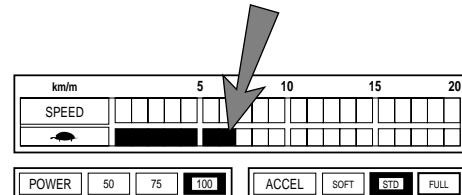
SPEED km



Down button



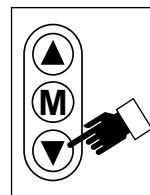
Up button



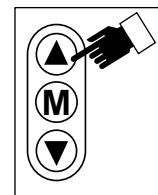
② Power setting mode

The power can be set at 3 steps, 100%, 75%, and 50% by pressing the Up button ▲ or Down button ▼.

POWER %

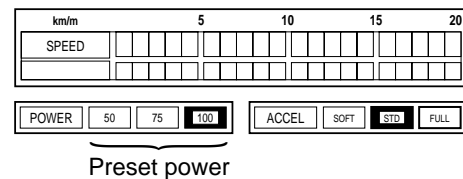


Down button



Up button

(50%–75%–100%)



Preset power

The preset power is displayed at the “POWER” column on the display.

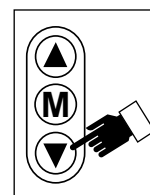
③ Acceleration feeling mode

The acceleration feeling mode can be set at 3 modes, Soft, Std (standard) and Full.

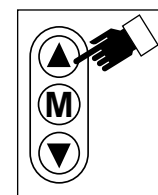
ACCEL SOFT : Easy inching

ACCEL STD : Normal

ACCEL FULL : Quick accelerator response

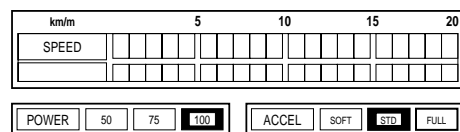


Down button



Up button

(SOFT–STD–FULL)



Preset accelerator feeling

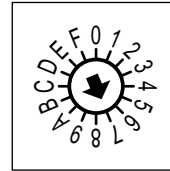


Better inching operation can be achieved by selecting the "soft" mode.

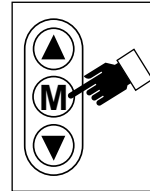
The preset accelerator feeling is displayed at the “ACCEL” column on the display.

④ Option setting

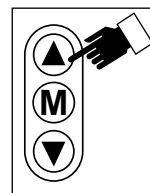
- 1) Set the rotary switch RS1 to "7", and turn the key switch on.
- 2) Press the mode select button (M) to shift the setting position.
 - ◇ The setting position which flashes can be moved to the right by pressing the mode select button (M).
- 3) Press,
 - ┌ the Up button (▲) to set : display "1".
 - └ the Down button (▼) to reset : display "0".
 for each optional specification.



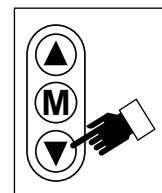
Set RS1 to "7"



Mode select button



Up button



Down button



After finishing to set or reset, be sure to turn off the key switch and to return the rotary switch RS1 to "0".



When replacing the MPU board, be sure to set the each function same as original setting.

Option Set	0	1
Not used	–	–
Over Drive (Option)	without	with
Hydraulic by-pass (Option)	without	with
Regenerative contactor	with	without
Monitoring	displayed	off
Seat switch	without	with
Lift lock at over discharge	off	on
Not used	–	–

If the bit of "Seat switch" is changed "0" to "1" on a standard truck, hydraulic system and indicator are normal, but the truck cannot travel.

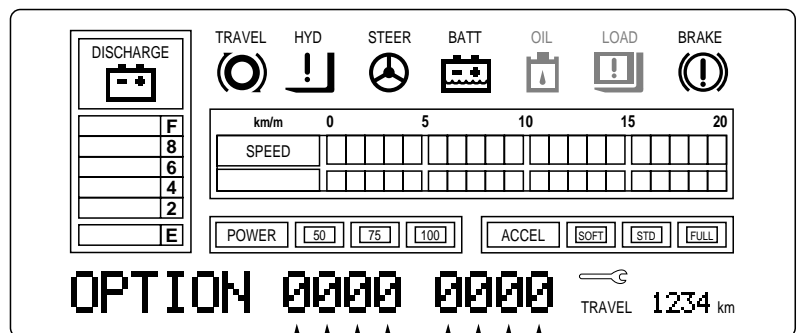
If all bits is changed "0" to "1" on the standard truck, 4 error messages appear on the indicator.

A10 : FET7-OVER DRIVE

B20 : FET4-HYD. BY pass

D24 : PC. BOARD-AOS

* TURN OFF KEY SWITCH *



- Not used
- Over drive (Opt.)
- Hydraulic by-pass (Opt.)
- Regenerative contactor
- Monitoring
- Seat switch
- Lift lock at over discharge
- Not used



When replacing the MPU board, it is set "1" to each option setting for safety. Confirm the specification of the truck and set it properly.

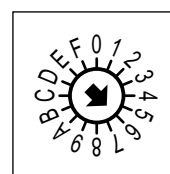


The option setting which is standard specification is set to "0". For example, Regenerative braking system is equipped as standard. Therefore, setting "0" means "with regenerative brake" "1" means "without regenerative brake".

⑤ Language selection on LCD display

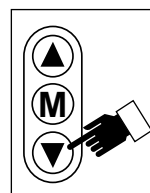
◇ Each language can be selected by this operation.

1) Set the rotary switch RS1 to "6" and turn the key switch on.

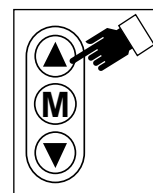


Set RS1 to "6"

2) Choose the each language shown below by pressing Up button ▲ or Down button ▼ .



Down button



Up button

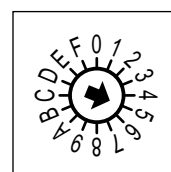
<Display on LCD>

Displayed language when turning key switch on.

0: JAPANESE	→	モニタリング OK
1: ENGLISH	→	MONITORING OK
2: FRENCH	→	CONTROLEUR OK
3: GERMANY	→	UEBERWACHUNG OK
4: SPANISH	→	MONITOR OK
5: DUTCH	→	MONITOR OK



After finishing to set or reset, be sure to turn the key switch off and to return the rotary switch RS1 to "0".



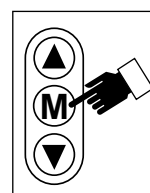
Set RS 1 to "5"

⑥ Safety monitor symbol.

◇ Each monitor symbol can be set by this operation

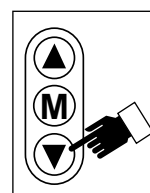
1) Set the rotary switch RS1 to "5".

2) Use the mode select button (M) to shift the setting position.

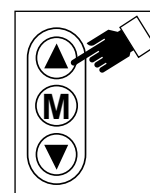


Mode select button

◇ The setting position which flashes can be moved to the right by pressing the mode button (M).



DOWN button



UP button