TEN00734-02

Operation & Maintenance Manual

HYDRAULIC
EXCAVATOR

PC490LCi-11

SERIAL NUMBERS 85113 and up

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

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METHOD FOR STARTING CONTROL BOX

⚠ WARNING

Do not operate the control box during the operation of the work equipment in order to prevent unexpected accident from occurring. Also, do not gaze the control box during the operation of the work equipment.

NOTICE

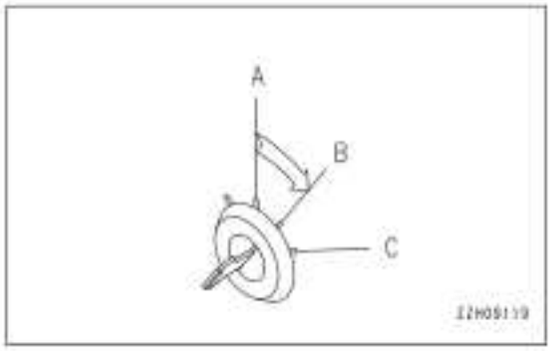
Start the engine when starting the control box to prevent the battery discharge.

Set the machine to the parking posture defined in the Operation and Maintenance Manual of standard machine when starting the control box. After that, check the precautions when starting engine, secure the safety, and then start the control box.

The starting of the control box is completed after the Project files and Setting files are downloaded. The working screen (main screen) is displayed after the starting is completed.

1. Turn the starting switch of the machine to ON position (B).

   (While starting switch is in ON position, control box screen starts.)



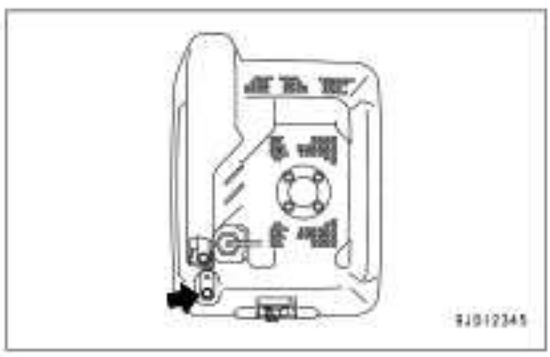
2. Control box starts automatically.

   NOTICE

   Do not turn the starting switch to OFF position before starting of control box is completed. This may cause failures of the control box. Before turning the starting switch to OFF position, make sure that the starting of control box is completed.
   Also, do not turn the starting switch to ON position while control box is in finishing after starting switch is turned to OFF position, nor repeat ON/OFF of starting switch, because such operation may cause the failures of control box.

   REMARK

   Power supply of control box can be shut down from application menu while starting switch is in ON position. Keep pressing the power button at the rear of control box for approximately 20 seconds to turn on the power supply in order to restart the control box.
   Turn the starting switch to OFF position and ON position when restarting the control box due to freeze, etc.



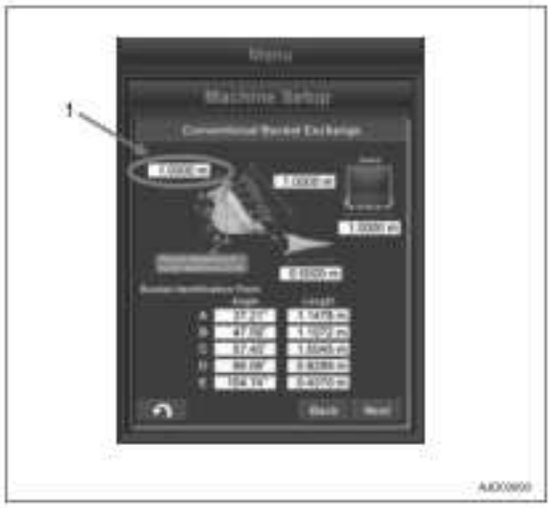
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METHOD FOR MEASURING BUCKET SHAPE

Measure the dimensions and angles for inputting the bucket information.

Measure the length dimension to mm unit, and angle to 0.1 ° unit.

1. Measure the dimension (1).

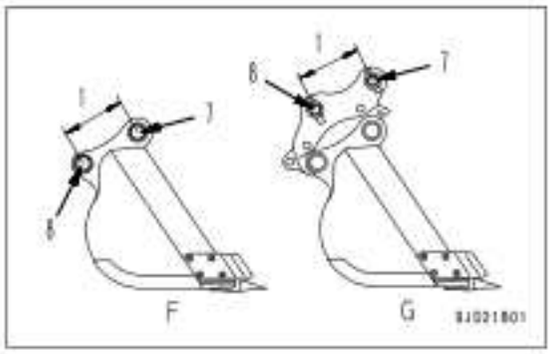


Dimension (1) is the distance between the bucket pin (7) and the bucket link pin (8).

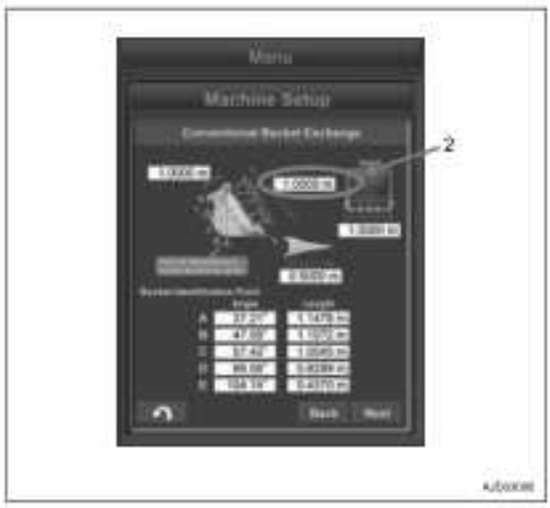
Measure with a tape measure, and input the data.

(F): When the quick coupler is not installed

(G): When the quick coupler is installed



2. Measure the dimension (2).



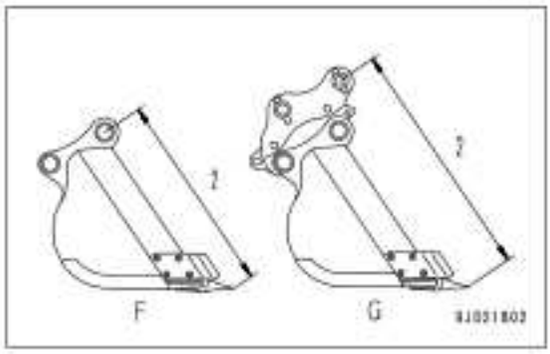
Dimension (2) is the distance between the bucket pin (7) and tooth tip.

Measure with a tape measure, and input the data.

2 persons are required for the measurement.

(F): When the quick coupler is not installed

(G): When the quick coupler is installed

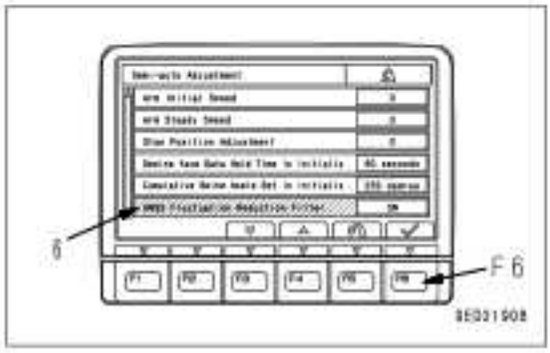


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METHOD FOR SETTING GNSS FLUCTUATION REDUCTION FILTER

"GNSS Fluctuation Reduction Filter" can be set to ON or OFF.

1. Select the "GNSS Fluctuation Reduction Filter" (6) on the "Semi-auto Adjustment" setting screen, and press the switch "F6".



   F3: Moves to the next item (1 line below). When it is on the last line, it moves to the first line.

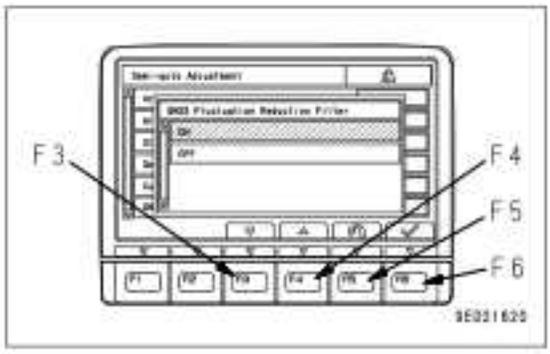
   F4: Moves to the previous item (1 line above). When it is on the first line, it moves to the last line.

   F5: Returns the display to "MC Setting" screen.

   F6: Changes the setting of selected item.

   "GNSS Fluctuation Reduction Filter" setting screen is displayed.

2. Select ON or OFF of "GNSS Fluctuation Reduction Filter" setting.



   It is set to ON when machine is shipped from plant.

   REMARK

   This function is used to reduce the fluctuation of GNSS coordinates when machine is stopped.
   Wobbling of work equipment in semi-auto mode can be reduced.
   Filtering function automatically stops during swing or travel.

   F3: Moves to the next item (1 line below). When it is on the last line, it moves to the first line.

   F4: Moves to the previous item (1 line above). When it is on the first line, it moves to the last line.

   F5: Cancels the change and returns the display to "MC Setting" screen.

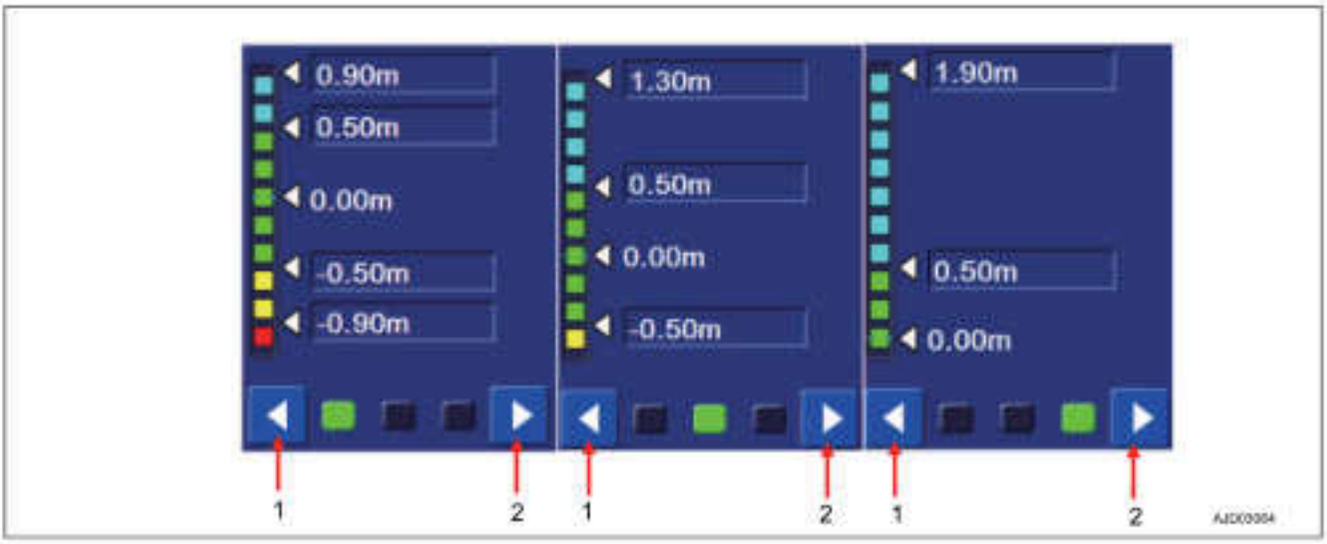
   F6: Validates the change and returns the display to "MC Setting" screen.

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METHOD FOR CHANGING LIGHT BAR DISPLAY RANGE IN ROUGH DIGGING MODE

Tap the buttons (1) and (2), and you can change the display range of Light Bar.

You can select the display range from the following 3 patterns.



METHOD FOR SETTING SOUND VOLUME

1. You can set the volume of the Sound for each color of the Light Bar.

   Tap the button (1) and the volume decreases.

   Tap the button (2) and the volume increases.

   REMARK

   Each time the button (1) or (2) is tapped, the green indicator decreases or increases.



2. There are 2 green tolerances of the Light Bar, and the Sound Volume can be set separately for the position of the bucket edge either above Surface or below Surface.

   (3): The volume can be set in the case that the bucket edge is within the green range of the Light Bar, and above the Surface.

   (4): The volume can be set in the case that the bucket edge is within the green range of the Light Bar, and below the Surface.



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SCREEN LAYOUT SETTINGS

With "Display Options", you can set and edit for following items.

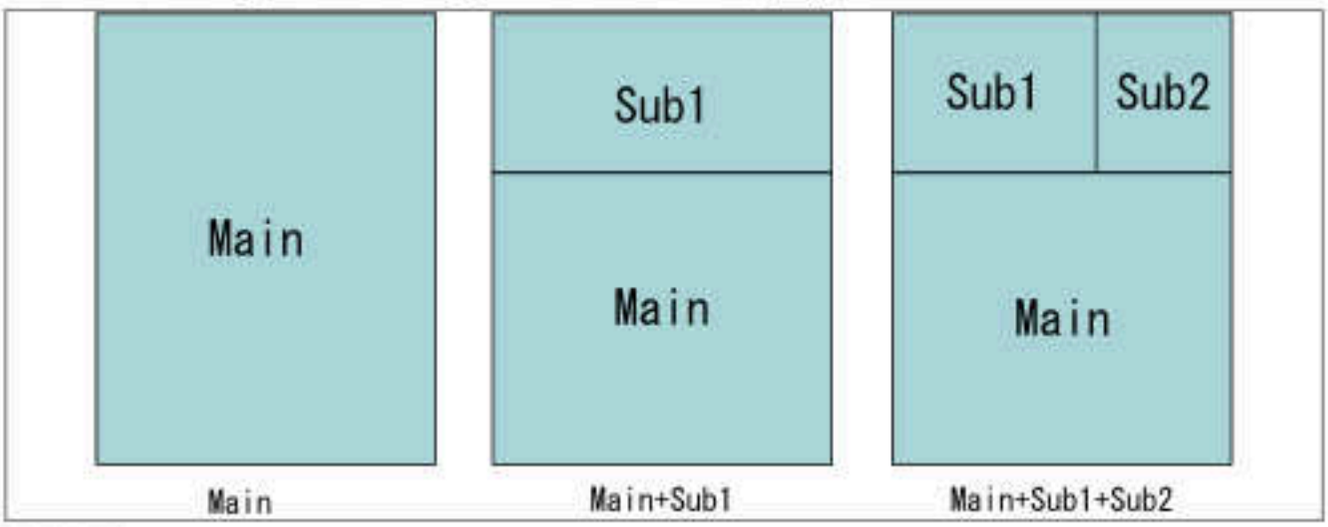
Perform the layout setting of the working screen.

Tap "Screen Layout" button on "Display Options" screen, the screen changes to the layout setting screen of the working screen.



SCREEN LAYOUT

You can select the layout of the working screen from the following 3 types.



REMARK

When Drive mode is selected, you cannot set the Screen Layout of "Main+Sub1+Sub2"

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