CEAM032701

Operation & Maintenance Manual

PC360LCi-11

PC390LCi-11

HYDRAULIC EXCAVATOR

SERIAL NUMBERS PC360LCi-11 A38001 and up
PC390LCi-11 A31001 and up

ENGINE 6D114E-6

January 2018

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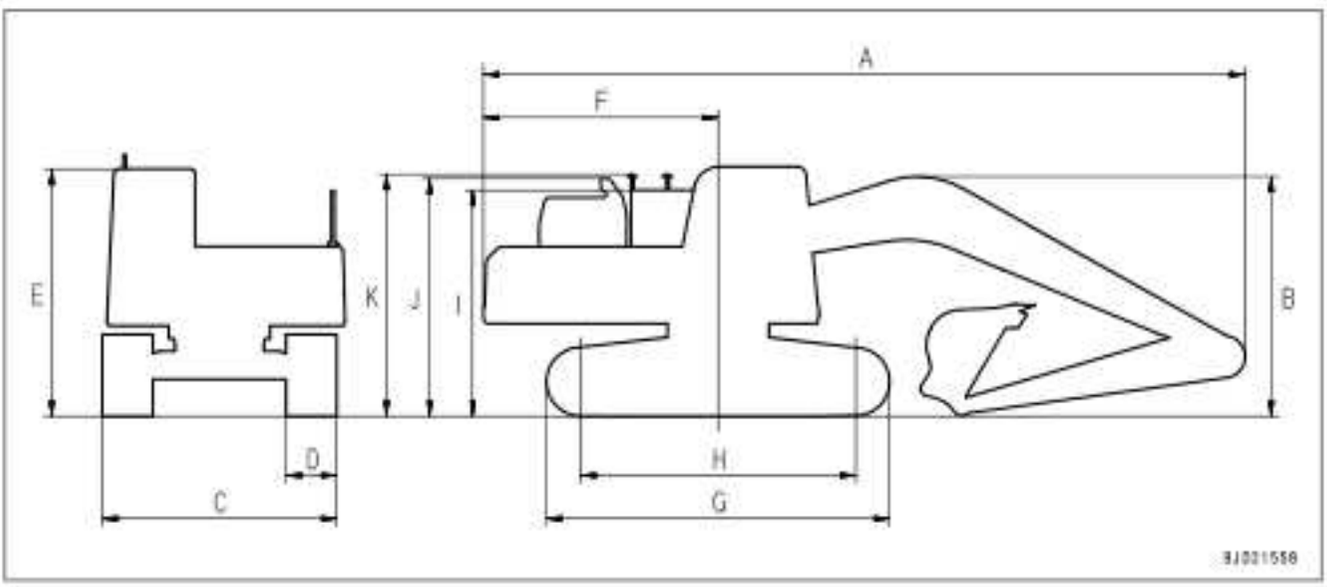
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SPECIFICATIONS

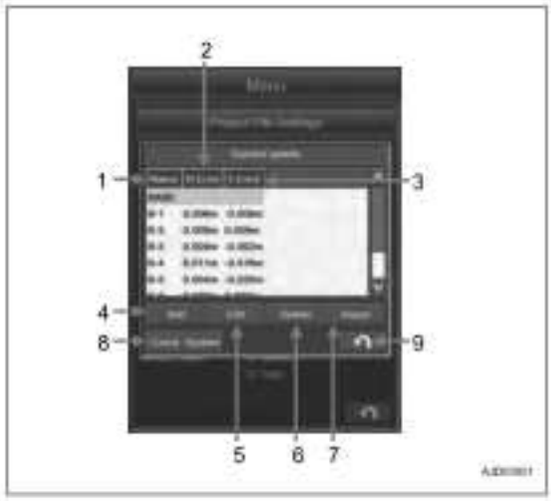
SPECIFICATIONS: PC360LCI-11, PC390LCI-11

	Item		Unit	PC360LCI-11	PC390LCI-11
	Operating weight		kg {lb}	35540 {78366}	38400 {84657}
	Bucket capacity		m^3 {cu/yd}	1.4 {1.8}	
	Engine model		-	Komatsu SAA6D114E-6 diesel engine	
	Rated horse-power	SAE J1995 (gross)	kW {HP}/ min^{-1} {rpm}	202 {271} / 1950 {1950}	
		ISO 9249 / SAE J1349 (net		192 {257} / 1950 {1950}	
A	Overall length		mm {ft in}	11145 {36' 7"}	
B	Overall height (work equip-ment)		mm {ft in}	3285 {10' 9"}	3388 {11' 1"}
C	Overall width		mm {ft in}	3440 {11' 3"}	
D	Shoe width		mm {ft in}	850 {2' 9"}	700 {2' 3"}
E	Cab height		mm {ft in}	3160 {10' 4"}	3263 {10' 8"}
F	Tail swing radius		mm {ft in}	3445 {11' 4"}	
G	Overall length of track		mm {ft in}	4955 {16' 3"}	5356 {17' 7"}
H	Distance between tumbler centers		mm {ft in}	4030 {13' 3"}	4350 {14' 3"}
I	Height of handrail		mm {ft in}	3255 {10' 8"}	3358 {11' 0"}
J	Height of engine cover		mm {ft in}	3135 {10' 3"}	3238 {10' 7"}
K	Height of GNSS antenna		mm {ft in}	3330 {10' 11"}	3433 {11' 3"}
	Min. ground clearance		mm {ft in}	498 {1' 8"}	551 {1' 10"}
	Travel speed (Lo/Mi/Hi)		km/h {MPH}	3.2 / 4.5 / 5.5 {2.0 / 2.8 / 3.4}	3.2 / 4.1 / 5.0 {2.0 / 2.6 / 3.1}
	Swing speed		min^{-1} {rpm}	9.5 {9.5}	



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CONTROL POINT SETTING CONTENTS



Function of "Control Points" setting is as follows.

Contents displayed in "Control Points" setting

(1) "Name": Name of Control Point

(2) "H.Error": Error in horizontal direction

(3) "V.Error": Error in vertical direction

Contents controlled by "Control Points" setting

(4) "Add": Adds Control Point.

(5) "Edit": Edits Control Point.

(6) "Delete": Deletes Control Point.

(7) "Import": Imports Control files from USB flash drive.

(8) "Coord. System": Sets coordinates system at jobsite.

(9) RETURN button: Returns the screen to the previous screen.

ENTER button: Saves the setting.

SETTING CONTENTS BY ADDING CONTROL POINTS

You can add the Control Point.

Tap "Add" button on "Control Points" setting screen, and the screen changes to "Control Point" screen.

You can input the Point obtained by measurement and Coordinates data of the existing Point.



Contents which can be set and edited with "Add"

(1) "Name":

You can input the new Control Point name.

(2) "Site Coords":

You can input the value of N, E, and Elevation at the World Geodetic System (Japan Geodetic System).

You can change the display of the Coordinates with Display Options.

(3) "WGS84":

You can input the value of latitude, longitude, and elevation of Ellipsoid at the USA World Geodetic System "WGS84(World Geodetic System 1984)".

(4) "Use for horizontal GPS localization" is used for the plane correction.



To use it, put a tick in the check box. By putting a tick, this Control Point becomes the horizontal Control Point.

(5) "Use for vertical GPS localization" is used for the elevation correction.

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

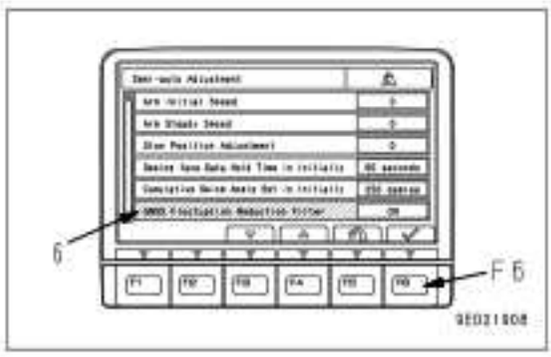
REMARK

Semi-auto mode is not canceled while semi-auto mode is in operation even if GNSS receiver is under initialization.
When GNSS receiver is under initialization, IMU presumes the machine self position, and keeps updating the design surface data within the set range of time and swing angle. The accuracy of construction may be degraded.
Semi-auto mode is not canceled while this setting is enabled. You can continue to use machine control, but we recommend not to operate the machine until GNSS receiver completes the initialization for safety reasons.

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.

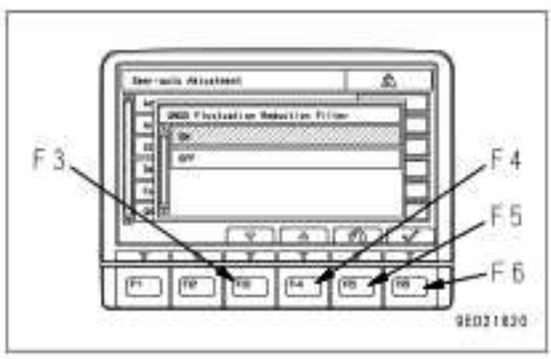
F4: Moves to the previous item (1 line above). When it is on the first line, it moves to the last line.

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.

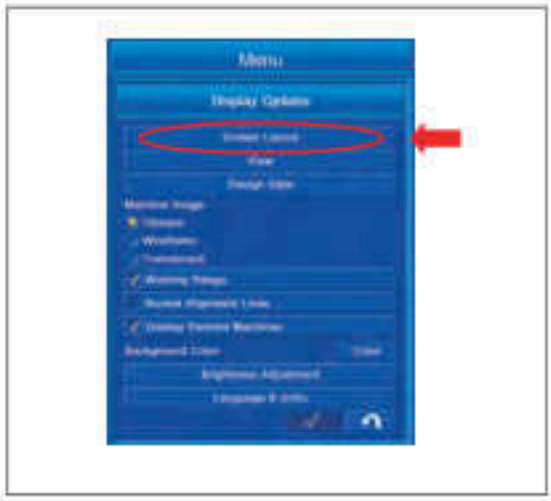
F5: Cancels the change and returns the display to "MC Setting" screen.

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

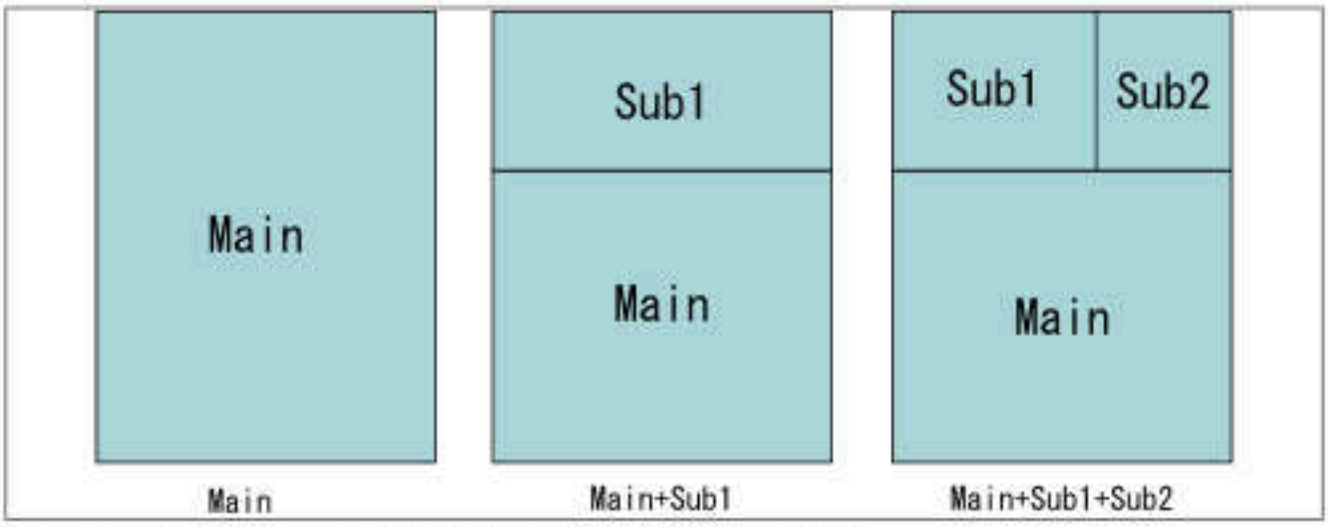
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Perform the layout setting of the working screen.

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

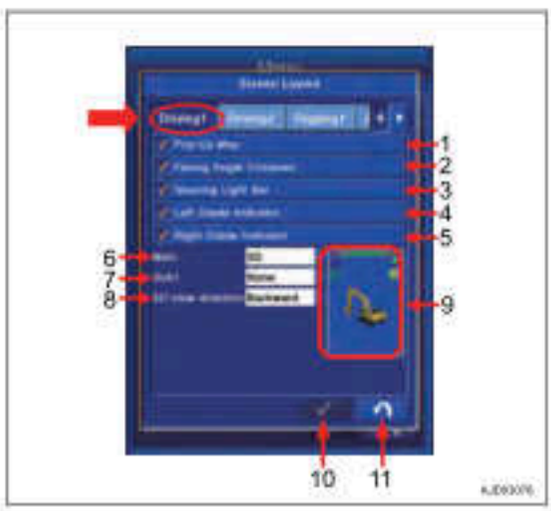
When Drive mode is selected, you cannot set the Screen Layout of "Main+Sub1+Sub2"

METHOD FOR SETTING SCREEN LAYOUT FOR DRIVING

You can perform the display setting for Driving mode.

Display setting can be saved in "Driving1" and "Driving2".

Tap "Driving1" tab on the setting screen of "Screen Layout".
You can perform the display setting of "Driving1" screen.



(1) "Pop-Up Map"

Pops up the wide area map on the working screen.

(2) "Facing Angle Compass"

Displays Facing Angle Compass on the working screen.

(3) "Steering Light Bar"

Displays Steering Light Bar on the working screen. It is displayed on the screen only when Surface of Alignment is displayed.

(4) "Left Grade Indicator"

Displays L.H. Grade Indicator (grade) on the working screen.

(5) "Right Grade Indicator"

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LIGHT BAR AND SOUND SETTING CONTENTS

(1) "On-grade tolerance:": Allowance range which is displayed as a green Light Bar in the digging operation can be set.

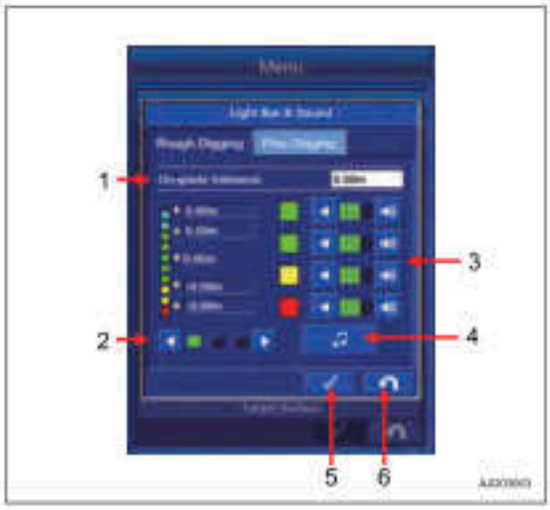
(2) Setting of the range which is displayed as a green Light Bar in the digging operation can be changed.

(3) The sound volume can be adjusted per color of the Light Bar.

(4) The tone of Sound can be changed.

(5) ENTER button: Tap this button and the setting is saved.

(6) RETURN button: Tap this button and the screen returns to the previous screen.



METHOD FOR SETTING TOLERANCE IN ROUGH DIGGING MODE

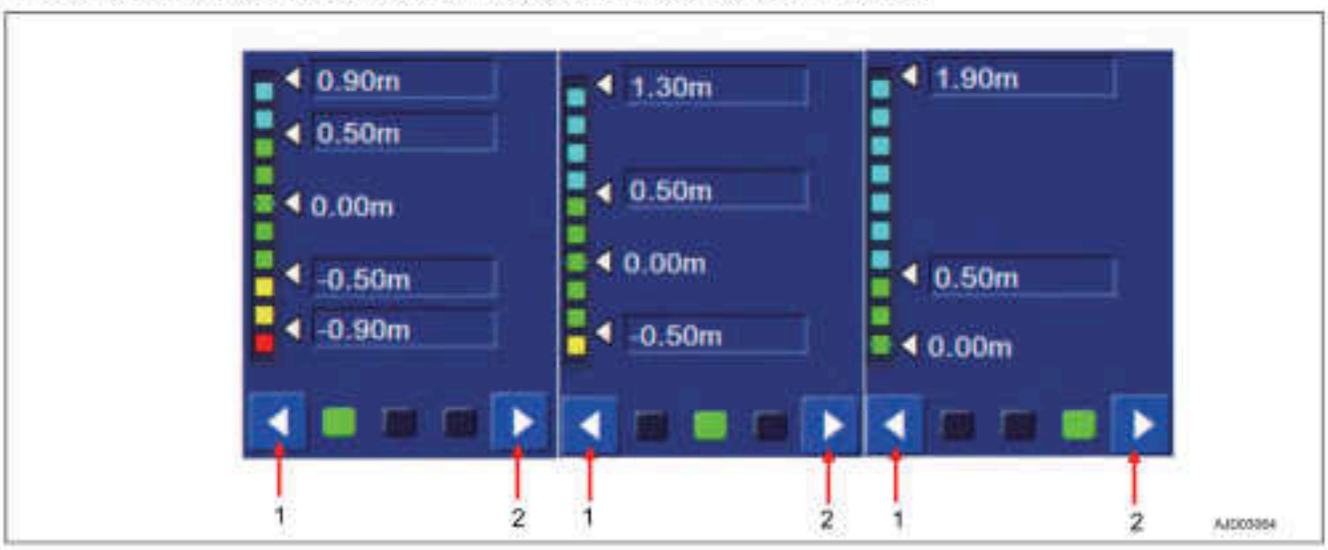
You can set the tolerance when the Light Bar is displayed in green range in the Rough Digging mode.

Tap "On-grade tolerance:" column, and input the tolerance.
If the numeral value is inputted, the Light Bar is automatically renewed and reflected on the screen.



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.



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