TEN00723-04

Operation & Maintenance Manual

BULLDOZER

D61EXi -24
D61PXi -24

SERIAL NUMBERS 40001 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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TABLE OF CONTENTS

FOREWORD 1-1
READ THIS MANUAL 1-2
SAFETY INFORMATION 1-3
INTRODUCTION 1-4
intelligent Machine Control 1-4
MACHINE FEATURES 1-4
SAFETY 2-1
GENERAL PRECAUTIONS COMMON TO OPERATION AND MAINTENANCE 2-2
PRECAUTIONS WHEN GETTING ON OR OFF MACHINE 2-2
PRECAUTIONS FOR BLADE AUTOMATIC CONTROL 2-3
PRECAUTIONS FOR OPERATION 2-4
START ENGINE 2-4
PRECAUTIONS FOR MAINTENANCE 2-5
PRECAUTIONS FOR CHECK AND MAINTENANCE 2-5
OPERATION 3-1
GENERAL VIEW 3-2
MACHINE EQUIPMENT NAME 3-2
MACHINE OUTSIDE EQUIPMENT NAME 3-2
CONTROLS AND GAUGES NAMES 3-3
EXPLANATION OF COMPONENTS 3-5
intelligent Machine Control SYSTEM 3-5
OTHER EQUIPMENT 3-15
MACHINE OPERATIONS AND CONTROLS 3-16
CHECKS AND ADJUSTMENT BEFORE STARTING ENGINE 3-16
OPERATIONS AND CHECKS AFTER STARTING ENGINE 3-18
METHOD FOR STOPPING ENGINE 3-21
METHOD FOR USING AUTOMATIC BLADE CONTROL 3-23
TRANSPORTATION 3-72
REMOVE RADIO DEVICE ANTENNA CABLE 3-72
PRECAUTIONS FOR LONG-TERM STORAGE 3-73
TURN BATTERY DISCONNECT SWITCH TO OFF POSITION BEFORE LONG-TERM STORAGE 3-73
TROUBLES AND ACTIONS 3-75
OTHER TROUBLE 3-75
HANDLE CONTROL BOX 4-1
TABLE OF CONTENTS 4-2
INTRODUCTION 4-4
KEYBOARD FUNCTIONS 4-4
METHOD FOR DISPLAYING MAIN MENU 4-7
FILE MENU 4-8
PROJECT FILES 4-8
CONTROL POINT FILES 4-14
LAYERS 4-17
POINT DATA 4-19
SURFACE FILE 4-20
ACTIVE FILE 4-37
EXIT 3DMC 4-39
CONTROL MENU 4-40
MACHINE SETTING 4-40
METHOD FOR SETTING AS-BUILT CONTROL OPTIONS 4-42
BLADE CONTROL 4-47
STEER INDICATION OPTIONS 4-51
ADJUST WEAR AMOUNT 4-52
DOZING CONTROL 4-52
ADJUST BLADE ELEVATION 4-52
CALIBRATE BLADE POSITION 4-52

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TOOLS MENU 4-53
RADIO DEVICE SETTINGS 4-53
POSITION SETTINGS 4-53
NAVIGATE POINTS 4-55
TOPO SHOT FOR TOPOGRAPHIC SURVEY 4-57
SUPERVISOR MODE 4-65
VIEW MENU 4-71
MAIN WINDOW DISPLAY 4-71
LEFT WINDOW DISPLAY 4-73
RIGHT WINDOW DISPLAY 4-74
LOWER WINDOW DISPLAY 4-75
DISPLAY OPTIONS 4-76
3DMC 4-87
MAIN WINDOW DISPLAY 4-88
ELEVATION CONTROL KEY 4-88
SLOPE CONTROL KEY 4-89
SHORTCUT ON THE MAIN WINDOW 4-91
TOOLBAR ON THE MAIN WINDOW 4-93
PAN OF MAIN MAP VIEW 4-94
OPERATION ON MAIN MENU 4-95
METHOD FOR DISPLAYING GNSS INFORMATION 4-95
METHOD FOR ADJUSTING CUT/FILL OFFSETS 4-98
METHOD FOR CHANGING GRADE INDICATOR DISPLAY 4-99
METHOD FOR CHANGING DISPLAY OF LIGHT BAR 4-100
OPERATION USING POP-UP MENU 4-101
SPECIFICATIONS 5-1
SPECIFICATIONS 5-2
SPECIFICATIONS : D61EXI-24 5-2
SPECIFICATIONS : D61PXI-24 5-3
INDEX 6-1

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REMARK

- There is no priority in order between switching on/off of control box power supply and switching on/off of starting switch of the machine.
- The control box operates on Windows® operating system.
  After turning on the control box power supply, it takes approximately 2 minutes until Windows® operating system starts and the main window is displayed. In the same way, after turning off the control box power supply, it takes approximately 2 minutes until the main window is finished and Windows® operating system shuts down.
  (Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.)

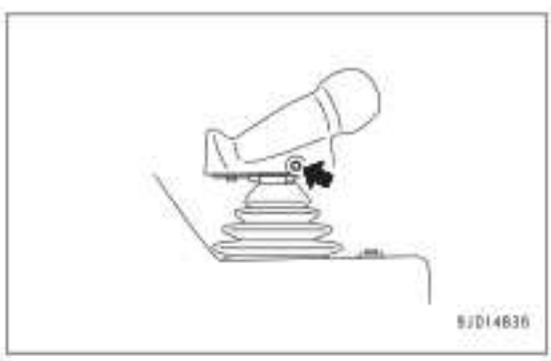
AUTO/MANUAL SWITCH

⚠ WARNING

- **While the blade automatic control is in operation, the blade moves even if the operator does not operate the blade control lever.**
  Before turning on the blade automatic control, check thoroughly if there are any persons or obstacles in the area around the machine.
- **While the blade automatic control is in operation, if the operator operates blade control lever, this blade lever operation is given the priority and the blade moves as operated by the operator. When the operator stops lever operation, the blade automatic control restarts.**
  While the blade automatic control is in operation, do not release your hand from the blade control lever, so that you can avoid the danger immediately if any.
- **When performing the inspection, maintenance, moving and loading/unloading on the trailer etc., i.e. other operation than the operation by "intelligent Machine Control" at the jobsite, turn off the blade automatic control and turn off the control box power supply.**
- **You can turn off the blade automatic control by setting the work equipment lock lever to LOCK position.**

Auto/Manual switch is used for turning on or off the blade automatic control.

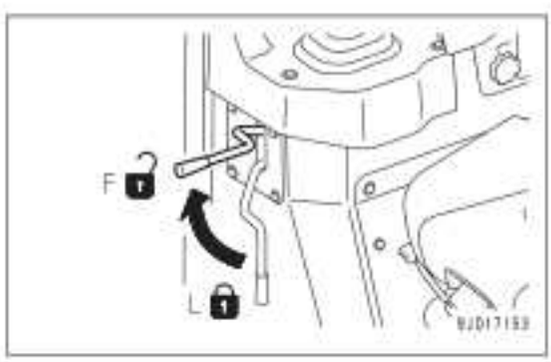
Auto/Manual switch is located on the blade control lever.



When turning on the blade automatic control

Place the work equipment lock lever in FREE position (F), and press Auto/Manual switch once.

The blade automatic control is turned on.



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PREPARATIONS IN CONFORMITY TO EACH SITE CONDITION

SET BASE STATION

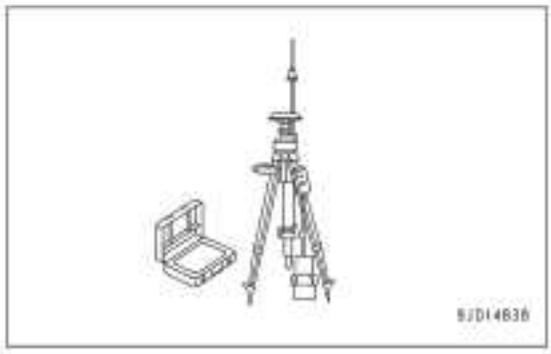
The base station communicates with the machine by using radio.

For the setting place of the base station, select such place that there is no obstacle between the base station and jobsite so that the radio signal can reach.

Also select setting place where has already been measured and its coordinate has been determined.

For the usable base station, consult your Komatsu distributor in advance.

For details of handling the base station, see the instruction manual of the base station.



METHOD FOR CONFIGURING RADIOS

Set the radio of control box matching with the radio setting of the base station.

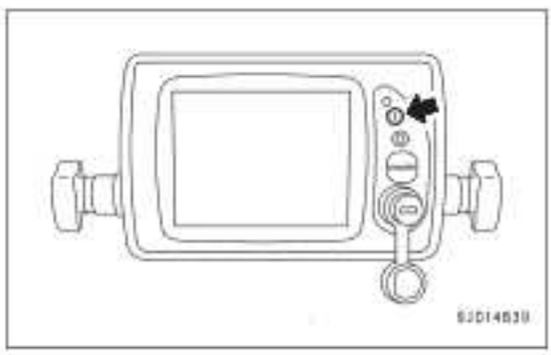
Resetting is not necessary unless the setting of the base station is changed.

REMARK

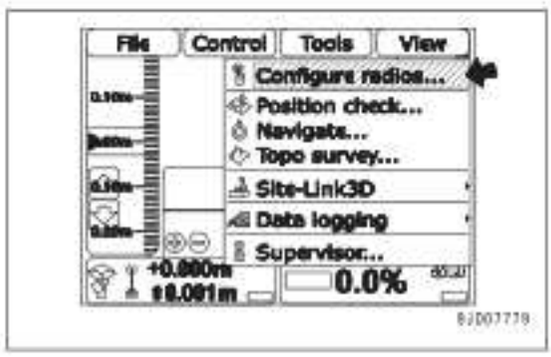
There are 2 specifications for the radio, "Topcon Digital 2 (UHF)" and "Topcon FH915 (SS)". Which specification can be used for the radio depends on the radio board in the GNSS receiver installed on the machine.
If the radio specification of radio board is different from the radio specification of the base station, the radio cannot be used. To use the radio, the radio board in the radio transmitter of the base station or that in GNSS receiver must be replaced. Consult your Komatsu distributor.

1. Set the base station and turn on the power supply.
2. Press power supply ON switch (green) to turn on the control box power.

   Starting switch of the machine can be turned off.



3. On the control box screen, press "iB logo key" and display the main menu.
4. On "Tools" menu, press "Configure radios..." and select.



"GNSS Radio Setup" screen is displayed.
The displayed screen varies depending on the radio specification of GNSS receiver.

5. Check if it matches with the radio specification of the base station to be used, and press "Configure...".

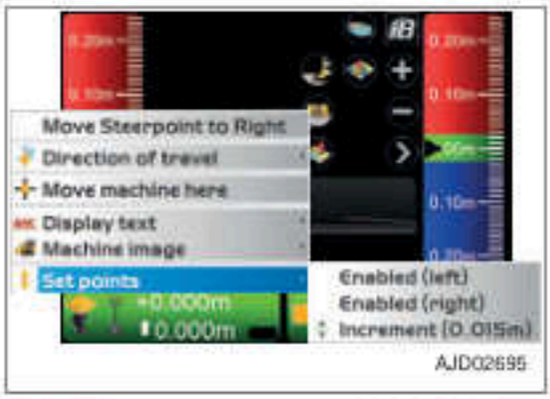
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METHOD FOR ADJUSTING CUT/FILL OFFSETS (POP-UP MENU)

By using the pop-up menu, you can adjust the cut/fill offset quantity setting quickly from the main window.

1. Hold down any point of the main window.
2. Press "Enabled (left)" in "Set points".

   "Cut/Fill offsets" is displayed at the bottom left of the screen.



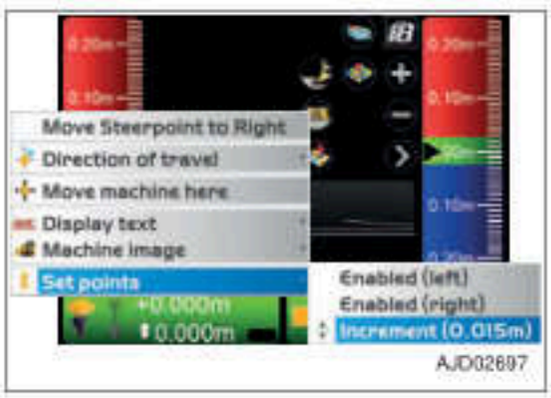
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3. Press "Cut/Fill offsets", change the cut/fill offsets quantity setting, and adjust the cut/fill amount.



4. Hold down any point of the main window.
5. Press "Increment" (** m) in "Set points".

   You can set intervals of increase/decrease when "Cut/Fill offsets" is pressed.



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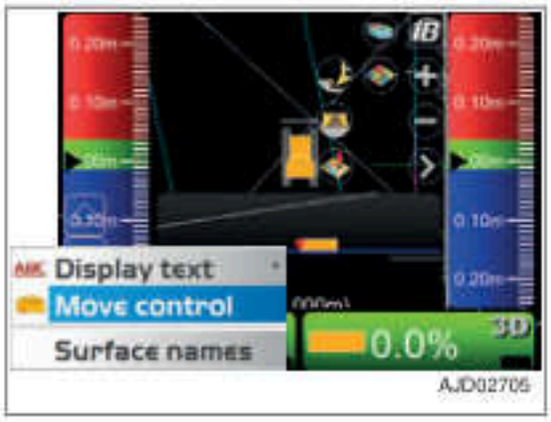
REMARK

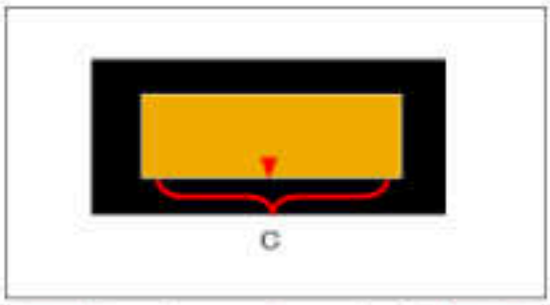
If you press "Enabled (right)" in "Set points", "Cross slope adjustment" is displayed.
You can adjust the lateral slope angle of Surface freely to a certain angle by pressing "Cross slope adjustment".



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3. When setting the blade control point to any point of the blade edge, press any point (in the range of (C)) of the blade edge at the top of the screen.
4. Press "Move control".







WHEN YOU CHANGE BLADE CONTROL POINT ON BLADE CONTROL SCREEN

When "Control using single point on blade" is selected, you can change the blade control point by using the slider button or the right/left arrow on "Blade Control" screen.

1. On "Blade Control" screen, check "Control using single point on blade".
2. Select 1 point apart from the right/left of the blade by moving the slider button to the right/left or by using the right/left arrow.
3. Press "Ok".

   This blade control point is applied to the machine.



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