TEN00712-02

Operation & Maintenance Manual

BULLDOZER

D85EXi -18
D85PXi -18

SERIAL NUMBERS 22083 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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PRECAUTIONS FOR MAINTENANCE

PRECAUTIONS FOR CHECK AND MAINTENANCE

- When performing the check and maintenance of the machine, turn off the automatic control of blade and turn off the control box power supply.
  If you perform the check while control box power supply is turned on, and you touch the Auto/Manual switch accidentally, the automatic control of blade may be turned on, and the blade start moving, resulting in serious personal injury or death.
- Only when performing the check and adjustment for the automatic control of blade, turn on the control box power supply, and perform the check and adjustment. Check that there are no persons or obstacles in the area around the machine.

PRECAUTIONS FOR GNSS ANTENNA

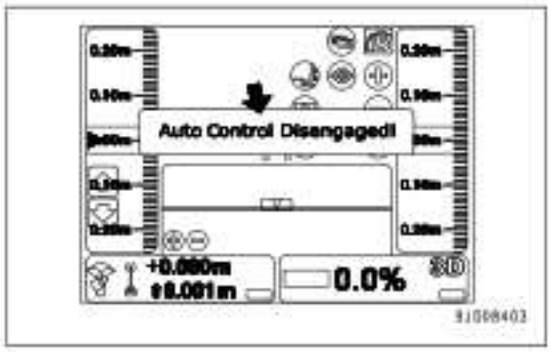
- Cable connector of the GNSS antenna is looseness-free structure. Check is not needed.
- If the GNSS antenna contacts with obstacles during operation or traveling, and it has to be checked and replaced, ask your Komatsu distributor.
- There is a danger of falling or tipping over that can lead to serious personal injury or death. Do not get on the cab to check the GNSS antenna.

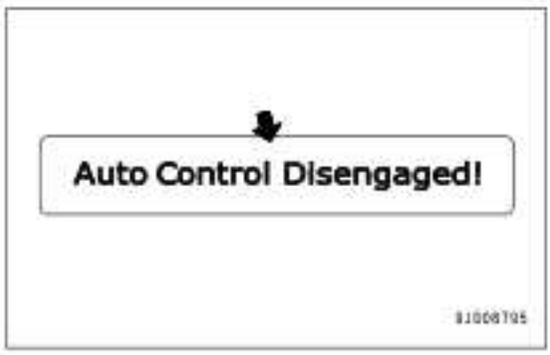
HANDLE COMPONENT WHICH CONTAINS MERCURY

The control box display backlight contains mercury. The machine may be equipped with optional High Intensity Discharge lighting lamps which also may contain mercury. These components must be reused, recycled or properly disposed of in accordance with applicable Local, State and Federal Laws.

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When the blade automatic control is switched from on to off, pop-up message "Auto Control Disengaged!" is displayed on the control box screen.



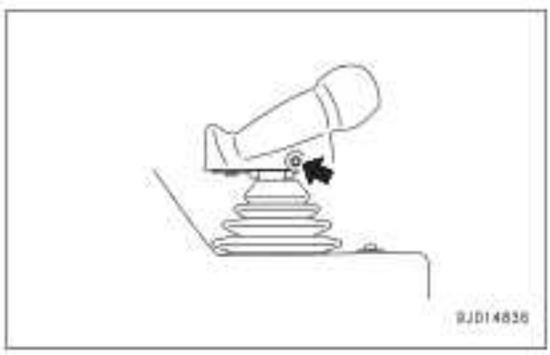


REMARK

While "AUTO" is not displayed on the control box screen, the blade automatic control is not turned on.
When you restart the blade automatic control, press the Auto/Manual switch again to display "AUTO" on the control box screen.

When the blade automatic control is automatically turned off

In the following conditions, even if Auto/Manual switch is not pressed, the blade automatic control is automatically turned off.



- When the machine is stopped for 30 seconds or more
- When the blade edge protrudes out of the designed range.
- The number of GNSS satellites which can receive the radio waves is decreased.
- When the radio waves from the base station cannot be received.
- When the starting switch of the machine is turned to OFF position.
- If there is an abnormality in the system such as open circuit, etc.

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TRANSPORTATION

Transporting the Machine

Contact your Komatsu distributor when transporting the machine.

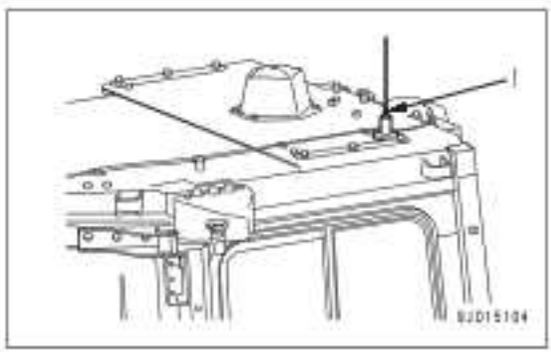
The overall height and machine weight, the GNSS antenna bracket and the cylinder stroke sensor on the work equipment cylinders are different from the non-ICT machine. For the overall weight of the machine, see "SPECIFICATIONS (5-2)".

NOTICE

Do not allow the cylinder to rotate when work equipment is not attached. If removing the GNSS antenna bracket to shorten overall height, remove radio device antenna first.

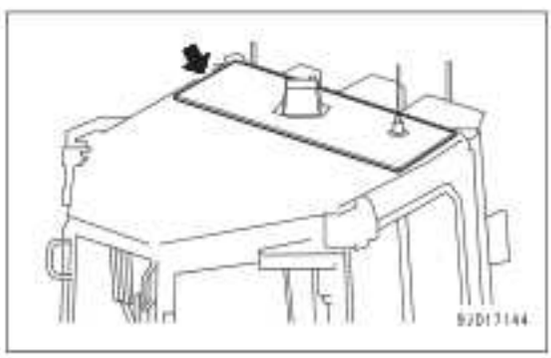
REMOVE RADIO DEVICE ANTENNA CABLE

When transporting the machine, remove radio antenna (1).



REMOVE BRACKET FOR GNSS ANTENNA

1. Stop the machine on a level ground.
2. Turn the starting switch to OFF position.
3. Turn the battery disconnect switch to OFF position.
4. Remove the bracket for GNSS antenna by using a vehicle for working in high place.



REMARK

After the bracket for GNSS antenna has been removed, the overall height of the machine becomes lower. Referring to the following table, determine whether the bracket for GNSS antenna should be removed for transportation.

	Overall height (mm {ft in})
When the bracket is not removed	3499 {11' 6"}
When the bracket is removed	3333 {10'11"}

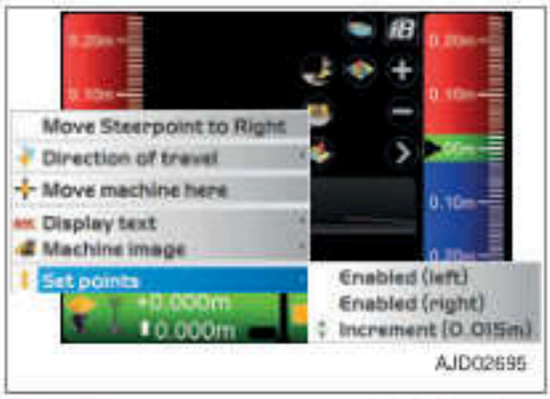
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METHOD FOR ADJUSTING CUT/FILL OFFSETS

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.

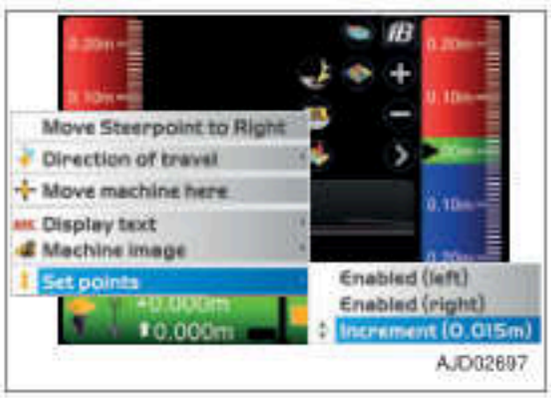


3. Press "Cut/Fill offsets", change the cut/fill offsets quantity setting, and adjust the cut/fill amount.



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.



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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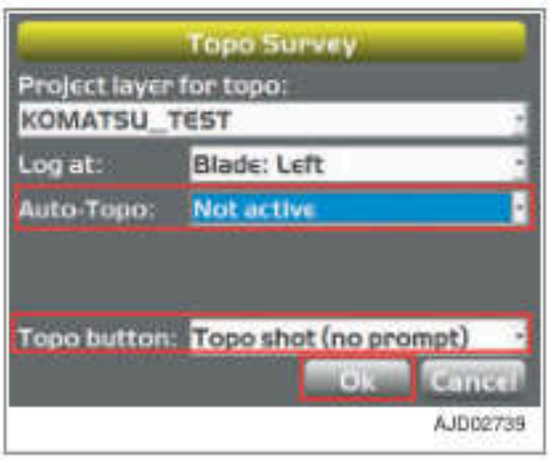
WHEN SELECTING NO PROMPT

1. On the main window, press "iB logo key" and display the main menu.
2. On "Tools" menu, press "Topo survey..." and select.



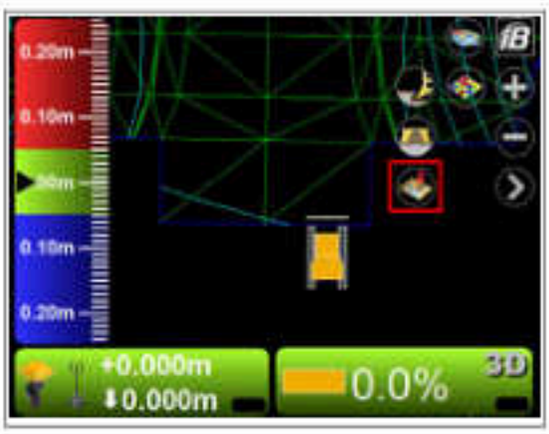
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3. On "Topo Survey" screen, select "Not active" for "Auto-Topo:".
4. Select "Topo shot (no prompt)" of "Topo button:".
5. Press "Ok".



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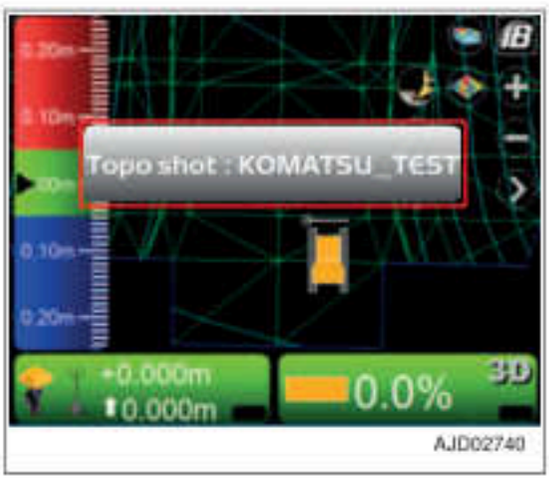
6. On the main window, press "Take a topo shot".



"Auto-Topo:" (information set on detailed position screen) and topographic survey recording are displayed.

For the information set on "Position Details" screen, see "WHEN SELECTING PROMPT FOR DETAILS (4-61)".

(Example) Mark ○ at left end of blade on main window



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