

Tuning Controller for SD330

SDC1

Operation Instructions

DIAMOND
ANTENNA

SD1 is a tuning controller for the SD330 screw driver antenna.

To use the product properly, read these instructions thoroughly before using it. Keep this manual carefully at hand for later use. The manual will be changed in the future without advance notice.

<<Warning>>

- Do not use the product under unusual conditions. Do not use the product when unusual conditions happen such as smoking, unusual smell or sound. Keeping using the product under those situations may cause to electrify or damage. Ask the dealer to repair it. Do not repair it by yourself because it is dangerous.
- Do not overhaul or reconstruct the product. It may cause to have a fire, electrify or damage.
- Do not put wire, metal or substance into the product. It may cause to have a fire, electrify or damage.
- Do not use the product at the place where inflammability gas is generated. It may cause to have a fire or explode.
- Do not use the product except for the specification of the operation instructions. It may cause to have a fire, or electrify.
- Do not damage, process, bend, twist or put the power supply cord. Do not put something heavy on the product or heat it up. Breaking the cord may cause to have a fire, electrify or damage.
- Do not use the product when cigarette lighter is inserted loosely. It may cause to have a fire, electrify or damage.
- Do not touch the power supply plug or the product with wet hands.
- Do not use the product where is easily reachable by babies and children. It may cause to electrify or do themselves an injury.
- Do not soak the product in water. Do not get wet the product. It may cause to have a fire, electrify or damage.
- Do not drop the product. Do not give them big impact.

<<Attention>>

- Do not install the product where is got the direct rays of the sun. Do not install the product near the jet of the air conditioner. It may cause to have a fire, transform, discolor or damage.
- Do not wipe it off with thinner or benzene. If it becomes too dirty, wipe it off the neuter detergent.
- Do not install the product where there is much moisture or dust. It may cause to have a fire, generate heat, electrify or damage.
- For the safety, be sure to cut off the power supply when it is not used.
- Do not put something heavy on the product.
- Use the product under rated specification only.
- Do not use the product when driving a car. Serious accidents could have been happened.

•Specification

Frequency: 3.5/7/10/14/18/21/24
/28(29)/50MHz Band

Operation time:

3.5MHz→HOM→3.5MHz approx. 160 sec.

7MHz→HOM→7MHz approx. 50 sec.

14MHz→HOM→14MHz approx. 20 sec.

*HOM –Operation standard position
(Lowest position of the coil)

Power supply voltage & current:

DC12V (9-14.5V) 200mA

Dimensions: 85(W)x 120(D)x 32(H)mm

Weight: 380g

<<Note>>

- Power supply voltage of the SDC1 is DC12V (9-14.5V usable). Please use it with the prescribed voltage.
- If the polarity of the power supply is wrong, the power supply is not going to turn ON because of a safety circuit.
- The fuse of the cigar plug is 2A. When changing the plugs, please use the prescribed standard one.
- Do not push more than two buttons at the same time. Do not tune the frequency change dial during moving the coil. It may cause malfunction and the antenna may be damaged.
- The controller cannot be auto-tuning. The fine tuning by manual operation is required.

- The SDC1 is not the water proof structure. Do not get water to the product.
- Since the inside of the SDC1 is a complicated electronic circuit, don't use it where is a strong magnetic field or high temperature and humidity.
- Since the dashboard of the car becomes high temperature, don't install the product at the dashboard.

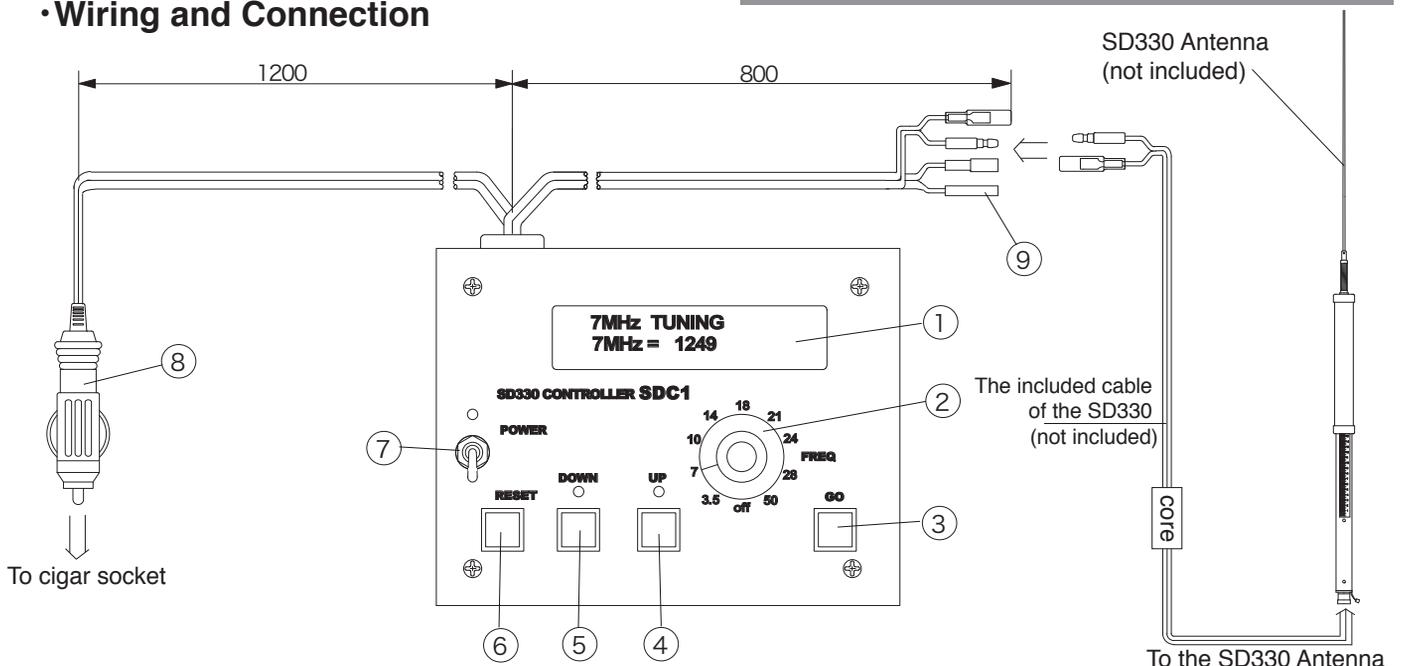
• Descriptions and Functions

- ① Display panel: The operation situation is shown.
- ② Frequency change dial: To change the operation frequency.
- ③ GO button: To start the operation.
- ④ UP button: To go the coil up. (To tune lower frequency)
- ⑤ DOWN button: To go the coil down. (To tune higher frequency)
- ⑥ RESET button: To stop the coil during moving the coil.
- ⑦ Power switch: To turn ON/OFF.
- ⑧ Cigar plug: To connect with a cigar socket of a car and to take power supply.
- ⑨ Terminal for connection with the SD330: (The terminal is different depending on the production time. Please connect with a suitable one.

• How to use the SDC1

- 1, Connect it as shown in below. Plug the cigar plug into a cigar socket.
- 2, To turn the power switch ON, LED lamp turns on and the current operation situation is shown on the display panel.
- 3, Turn the frequency change dial and set the operation frequency.
- 4, When pushing the GO button, the frequency and "GO HOM POSITION" will be shown in the display panel and the coil will be moved to the lowest position. After that, the coil will be moved to the selected frequency. The frequency and position count number will be shown at that time.
- 5, When the coil goes to the selected frequency, the coil will be stopped automatically. After stopping the coil, please transmit at less than the output 10W. Adjust the SWR by UP/DOWN buttons. (Since the antenna's conditions will be changed depending on the surrounding condition, weather and installation place. Please make sure to check SWR.
- 6, To keep pushing the UP button, the coil will be moved to the highest position and be stopped moving. Since the internal motor will keep truing, stop pushing the UP button at the earliest. After that, to push the RESET button and push the GO button, the coil will be moved to the selected frequency.
- 7, If you want to stop the coil during operation, push the RESET button. The coil will be stopped at the position.
- 8, When you want to re-start the UP/DOWN movement, go back to 3 or push UP/DOWN buttons. The coil will be moved.
- 9, When operating 50MHz band, use the optional element "OPE750".

• Wiring and Connection



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