

- ◇ This cloning software is designed to perform data entry, settings, and cloning for the IC-G80 VHF TRANSCEIVER.
- ◇ **HELP FILE:** CS-G80 has a Help file to describe functions and operation.

## ■ System requirements

To use this cloning software, the following hardware and software are required:

### PC

- Microsoft® Windows® XP, Microsoft® Windows Vista® or Microsoft® Windows® 7 Operating System (OS)
- RS-232C serial port (D-sub 9-pin) or USB port.

### Cable

- Optional OPC-478 CLONING CABLE (RS-232C type) or OPC-478UC\* CLONING CABLE (USB type)

\*To use the OPC-478UC's USB driver with a 64 bit OS, you can only use Microsoft® Windows® 7.

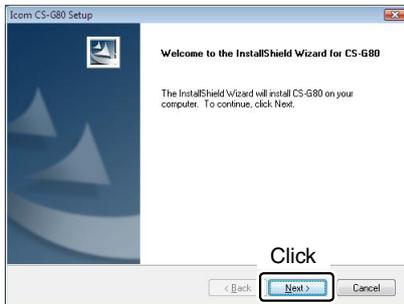
### NOTE:

- When using the OPC-478, RS-232C type cloning cable, select "Normal" for the cloning speed setting in the [COM port] menu of the cloning software. Otherwise, a cloning error may occur.
- When using the OPC-478UC, USB type cloning cable, you must install a USB driver. The driver is supplied with the OPC-478UC. See the OPC-478UC instruction manual for details.
- These instructions are based on using Microsoft® Windows Vista®.

## ■ Software installation

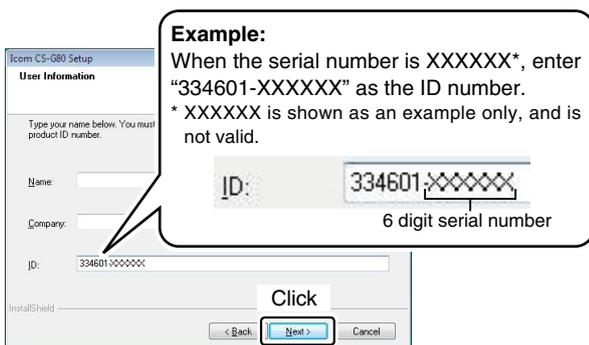
When installing the software, log on as the **administrator**.

- ① Make sure Windows has completed its start-up, and no other applications are running.
- ② Insert the CD into a CD drive.
- ③ Double-click the "setup.exe" contained in the CD.
  - If "User Account Control" appears, click [Allow] to continue.
- ④ "Welcome to the InstallShield Wizard for CS-G80" appears. Click [Next>].



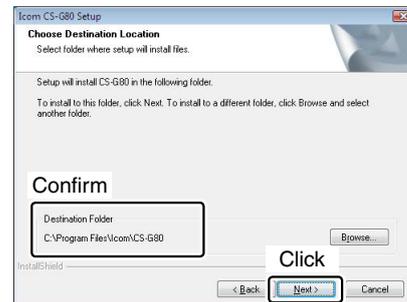
- ⑤ "User Information" appears, and then type your name, your company name and the product ID number in the following manner. Then click [Next >].
  - ID number: 334601-(6 digit serial number)

Please check the serial number on the CD. If you downloaded the software, enter the ID that was provided by your distributor.

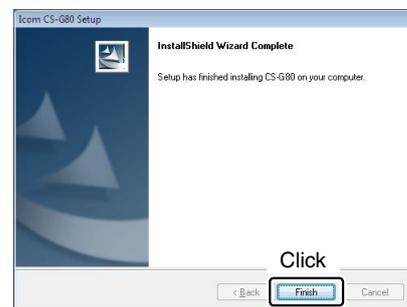


- ⑥ "Choose Destination Location" appears, and then click [Next>].

- If desired, click [Browse...] to select another destination folder before clicking [Next >].



- ⑦ After the installation is completed, "InstallShield Wizard Complete" appears, and then click [Finish].

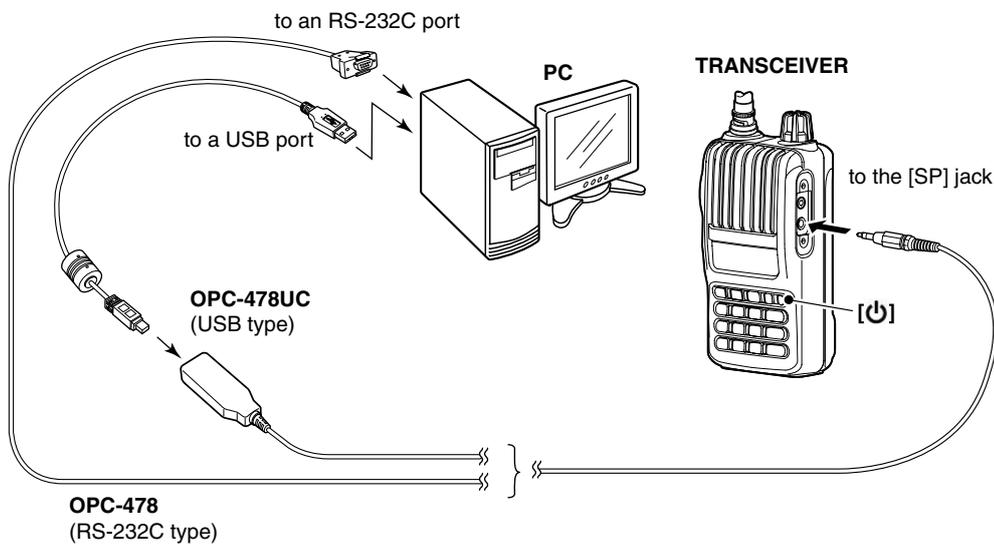


- ⑧ Eject the CD.
- ⑨ A program group 'CS-G80' appears on the program menu, and a 'CS-G80' shortcut icon appears on the desktop.
  - You can uninstall the cloning software using "Uninstall a program" in the Windows Control Panel.

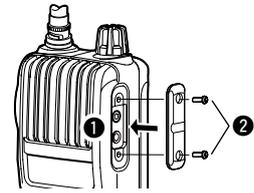
## ■ Connection

All cloning operations are performed from the PC's keyboard.

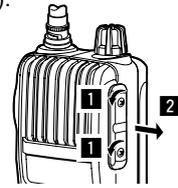
- ① Make sure the transceiver power is OFF.
- ② Connect the cloning cable as illustrated below.
- ③ Push [  ] to turn ON the transceiver.



**Attaching:**  
Attach the jack cover (①),  
then tighten the screws (②).



**Detaching:**  
Remove the screws (①),  
then detach the jack cover  
(②).



## ■ Programming information

- We recommend that you download all the transceiver's data before entering or editing parameters, even when the transceiver is factory fresh.

Click , or click [Clone] in the top menu of the cloning software, and then select "Read <- TR" to start downloading.

- While downloading or uploading cloning data, **NEVER** turn OFF the transceiver or the PC, and **NEVER** disconnect the cloning cable. Otherwise, the data could be lost or deleted.

Please refer to the Help file of the cloning software for assistance with the functions or settings.

To open the Help file, click [Help] in the top menu of the cloning software and select "Contents," or simply push the [F1] key of the PC's keyboard.

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