



Model: All	Apr. 14, 2023
Serial #: N/A	
Product Bulletin # TES-002 Rev 1	

## TesTORK System Firmware Update

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Canrig has updated the TesTORK firmware used by all models of the TesTORK System. The updated firmware adds the following functionality:

- Wake the TesTORK from sleep mode when rotational movement is applied.

This firmware update is optional, it will take place during the next annual calibration. No existing functionality is changing, there is only the addition of the new wake from sleep feature.

## Affected TesTORK Models

The new firmware is compatible with all existing TesTORK models, as indicated below:

- 6-5/8" REG Pin Up x 6-5/8" REG Box Down
  - Canrig #5040120-1
  - Canrig #5040120
- NC50 Pin Up x NC50 Box Down
  - Canrig #5042121-1
  - Canrig #5042121

## Equipment Required

See list below for required equipment to perform the firmware update:

- TesTORK to be updated
- Rechargeable Battery Pack (Canrig #5033019), fully charged
- Base Station Transceiver (Canrig #5070752)
- Base Radio Antenna Receiver (Canrig #5037527)
- Antenna Cable (Canrig #5038236) and USB Laptop Cable (Canrig #5046743)
- Computer with one available USB port w/ Base Station Transceiver drivers
  - Base Station Transceiver drivers



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- Canrig TesTORK firmware update package
  - Canrig OTA Programmer software
  - Firmware update script: TEC\_BOARD\_2v0b48D.hex.script

Contact RIGLINE 24/7™ to obtain the firmware update package.

## Firmware Update Procedure

Follow the steps below to update the TestORK firmware.

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**NOTICE**

It is recommended that the firmware update take place at a maintenance facility.

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### Preparation

1. Ensure the computer that will be used for the firmware update has the following:
  - Base Station Transceiver drivers are installed
  - Canrig OTA programmer is loaded
  - Firmware update script is stored in a known location on the computer
2. Connect the antenna cable to the antenna and the base station. The cables orientation does not matter.
3. Connect the USB cable to the base station and plug into the computer. The cable connectors are different preventing incorrect configuration.
4. Securely rest the TestORK within reaching distance of the computer. Ensure the battery compartment cover is easily accessible.

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**CAUTION**

Secure the TestORK in place as it can pose a danger to the technician if it moves.

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## Firmware Update

1. Start the Canrig OTA Programmer software, the main screen will appear (Figure 1).

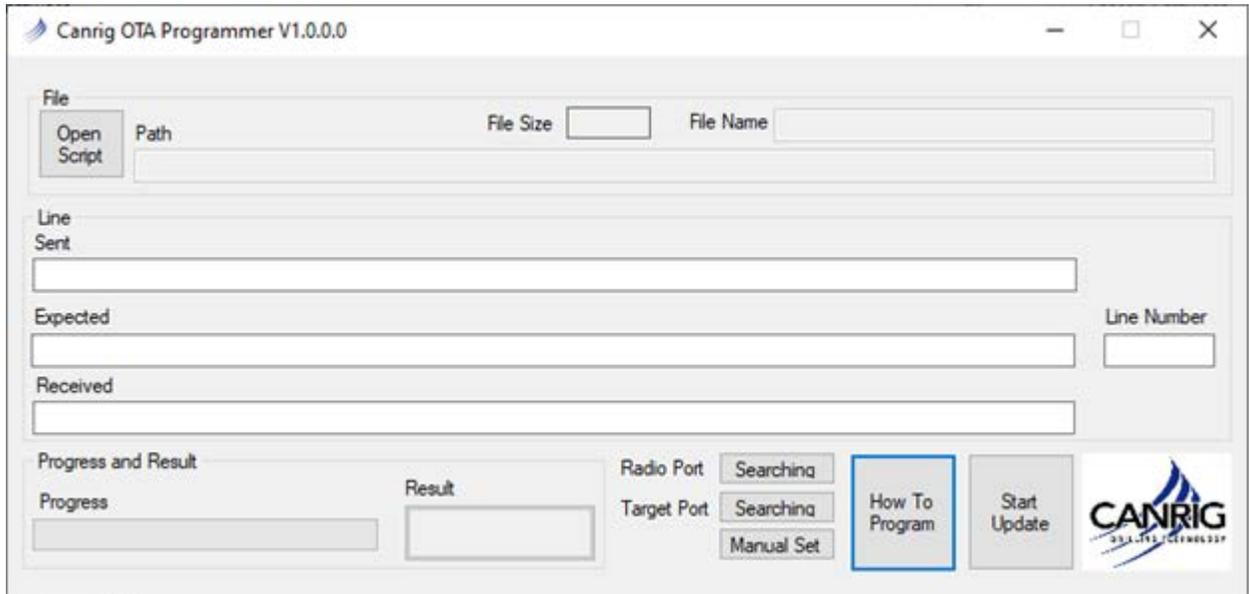


Figure 1: Canrig OTA Programmer main screen

2. The OTA Programmer will automatically search for the **Radio Port** and **Target Port** (Figure 2). When these are found, the screen will change accordingly (Figure 3 on page 4).

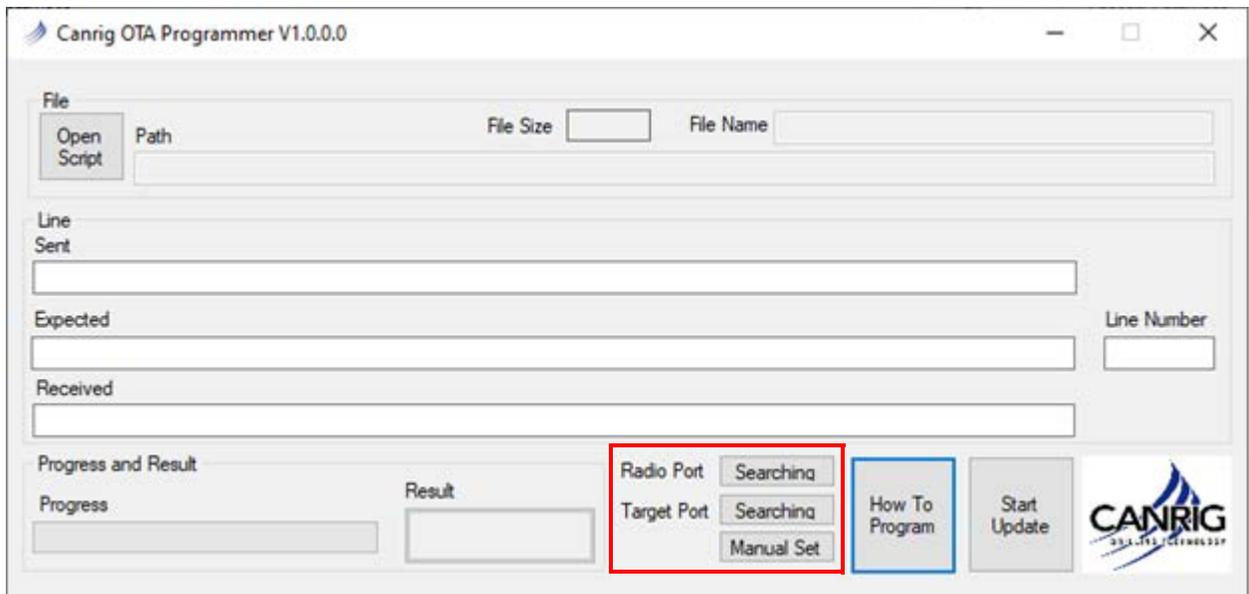


Figure 2: Searching for Radio Port and Target Port



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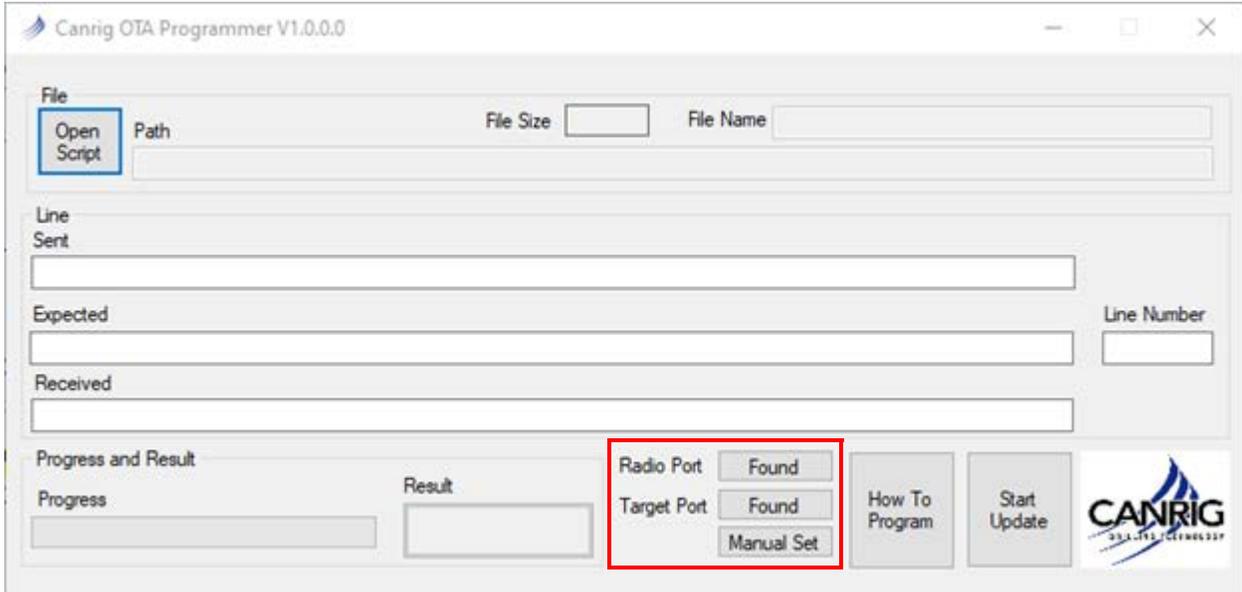


Figure 3: Radio Port and Target Port found

If it takes more than one minute for the OTA Program to find the **Radio Port** and **Target Port**, unplug the base station transceiver USB cable from the computer, wait 20 seconds and plug it back in.

If the Radio Port and Target Port are not found after multiple tries, verify that the Base Radio drivers are installed on the computer.



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- To select the firmware update script, under **File**, select the **Open Script** button. The file **Open** dialog will appear (Figure 5 on page 5).

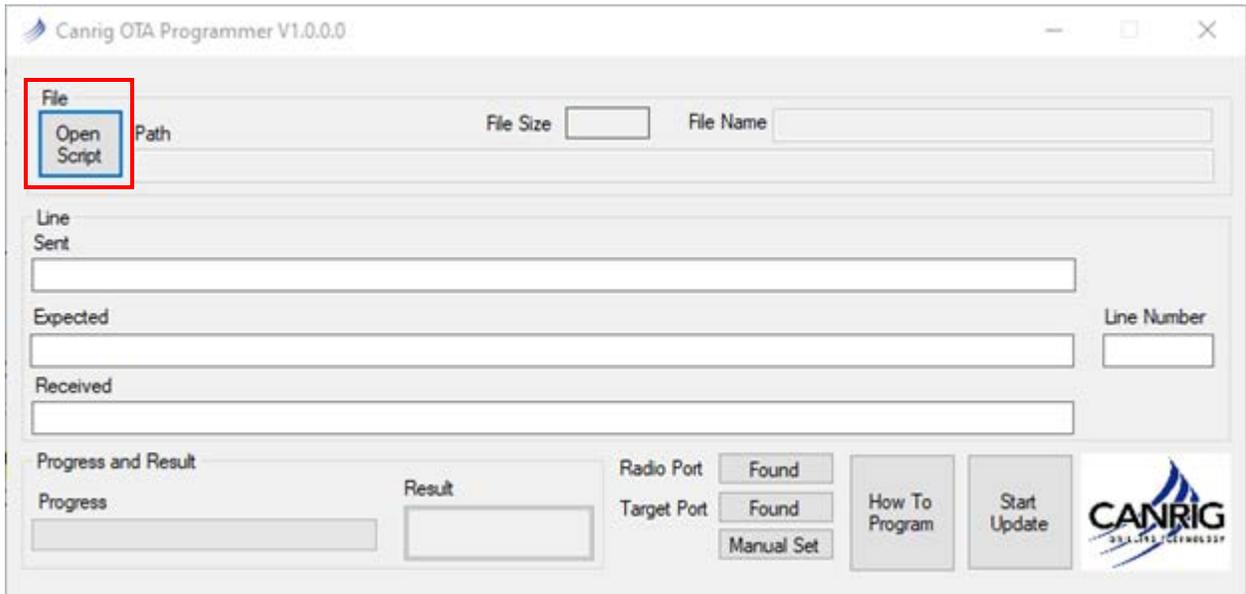


Figure 4: Open Script button

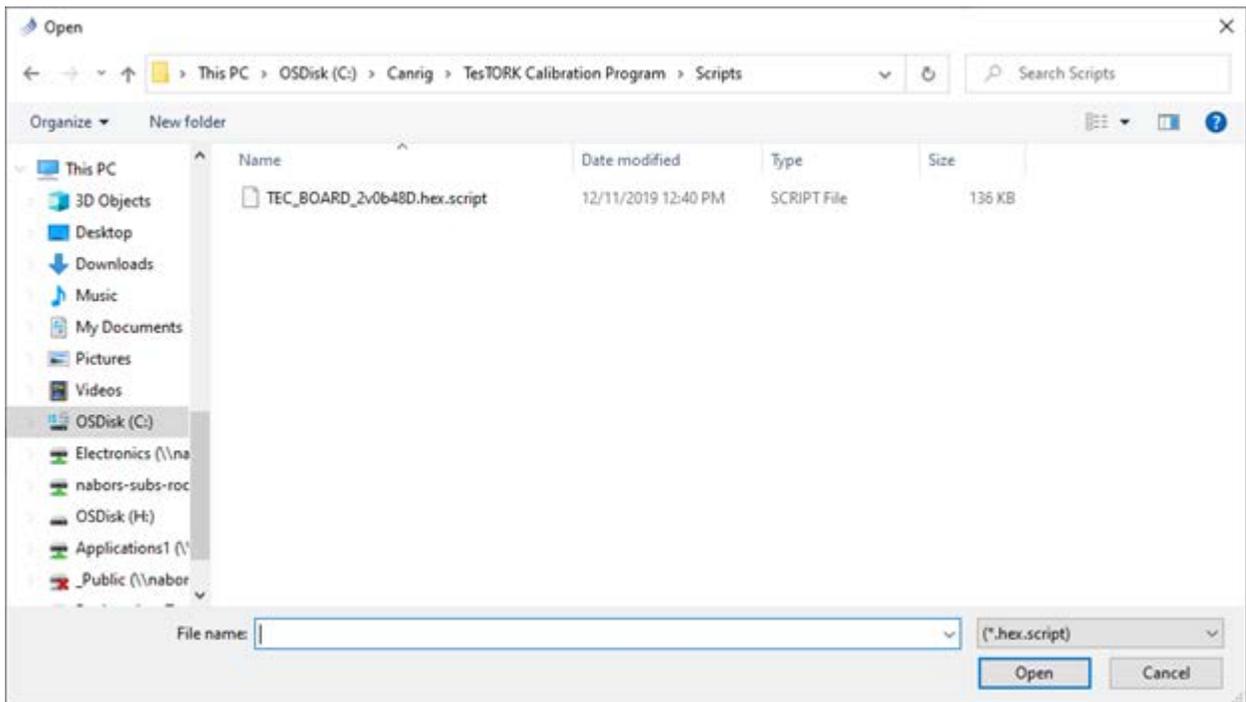


Figure 5: File Open dialog



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4. Navigate to where the firmware update script is located, select the file and then select the **Open** button. The screen will update to show the selected file (Figure 7).

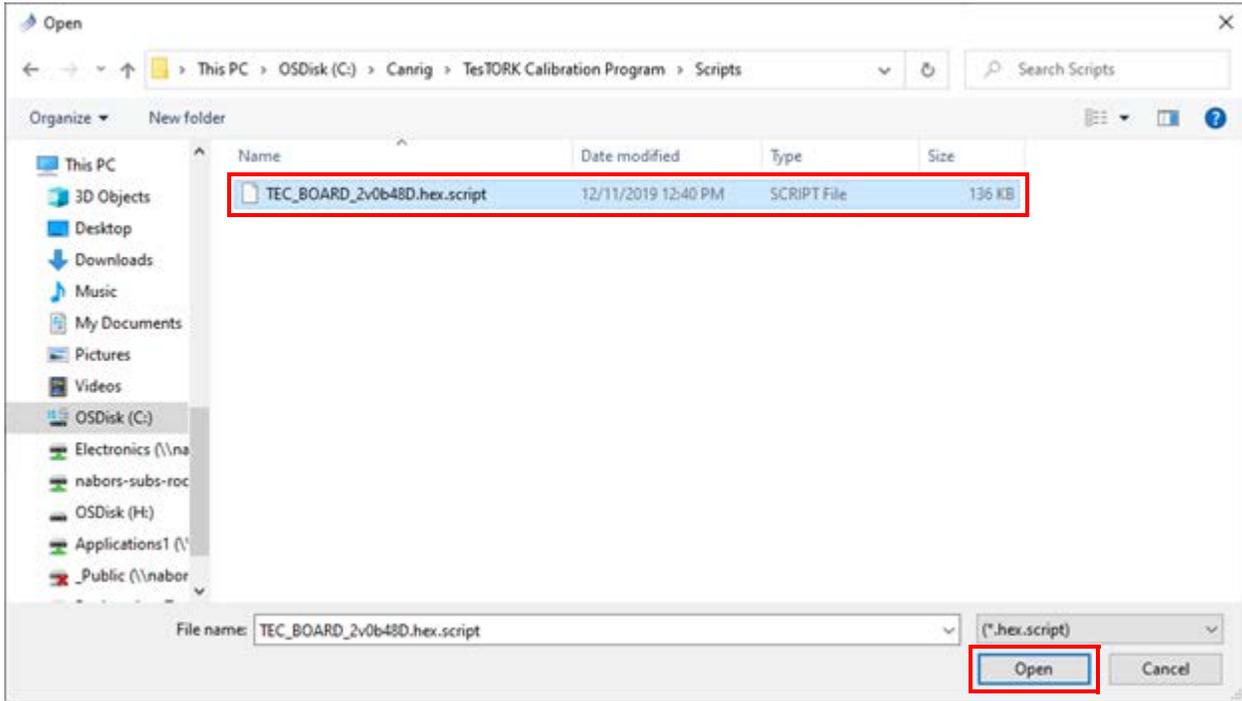


Figure 6: Update script file selected

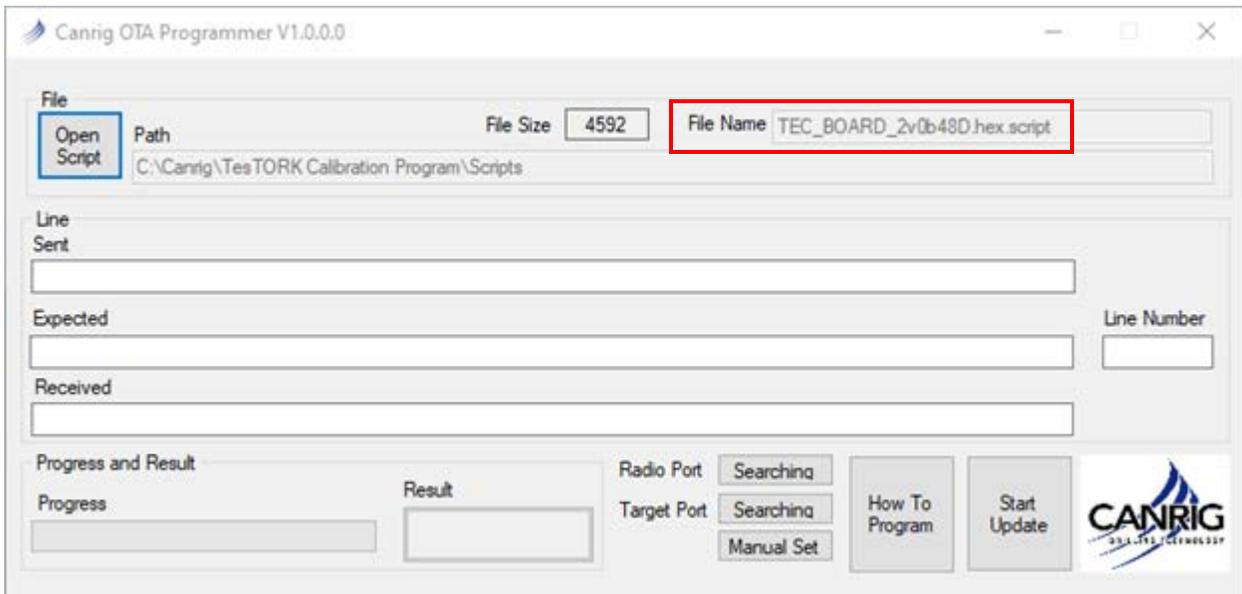


Figure 7: Displaying update script file selected



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5. Insert the battery pack into the TestTORK unit and affix the battery pack cover in place or firmly hold the battery in place.
6. To start the firmware update, select the **Start Update** button.

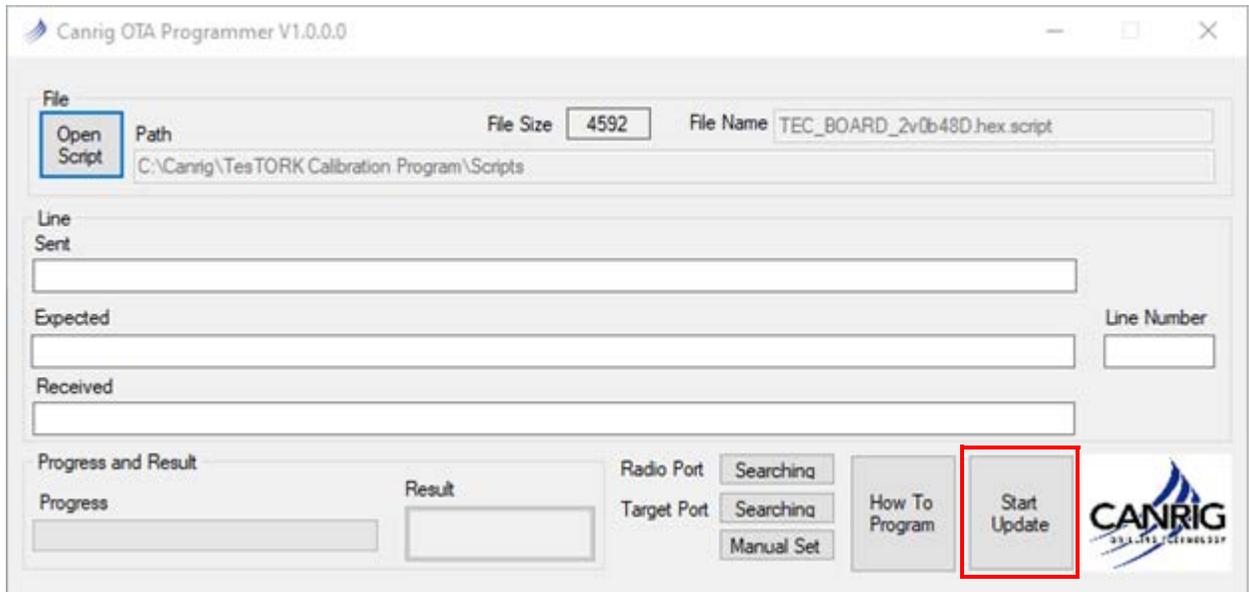


Figure 8: Start Update button

The OTA Programmer will update the firmware in the TestTORK as shown in Figure 9.

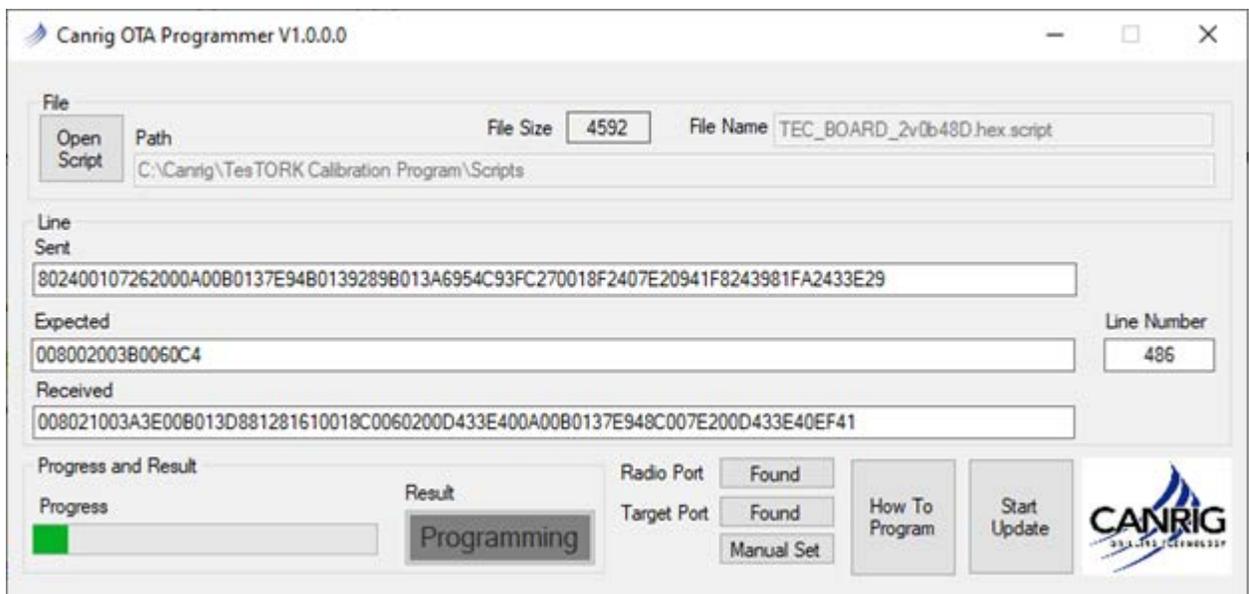


Figure 9: TestTORK being updated



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When the update is completed, the OTA Programmer screen, under **Result**, will display **Success**.

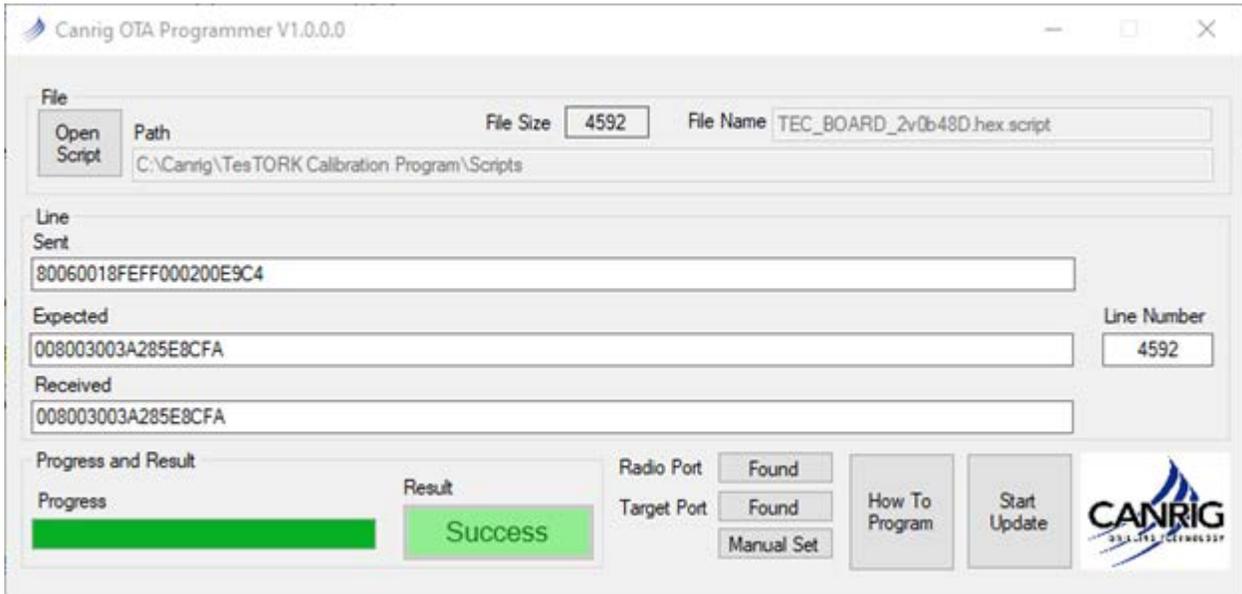


Figure 10: Firmware update success

If the programming fails for any reason, power down the TesTORK and start again.

Contact RIGLINE 24/7™ if you need assistance or to obtain the firmware update package.