

RadioShack is pleased to offer this free upgrade to enhance the functionality and performance of your 20-106/20-197 (PRO-106/197) digital trunked scanning receiver. Please take a moment to review these instructions before proceeding with the upgrade.

**IMPORTANT NOTICE:** You must upgrade your RadioShack scanner with a firmware upgrade obtained from RadioShack. Also, please note that firmware upgrades for RadioShack scanners are not compatible with scanning receivers sold by other companies.

### ***New in version 2.1***

- Fixed Marine, VHF, and UHF search frequencies

### ***What you will need to upgrade your radio***

You will need the following items to perform the CPU firmware upgrade:

- The upgrade application file, which is normally supplied in a self-extracting ZIP archive along with this documentation. To download the file, visit the RadioShack Support Site, at <http://www.radioshack.com>.
- A RadioShack Catalog #20-047 or #20-546 USB scanner programming cable
- A personal computer running Windows™ 2000, XP, Vista or Windows 7
- A 20-106 or 20-197 scanner in need of a CPU upgrade

### ***Upgrading your 20-106 or 20-197***

Upgrading your scanner is a quick, simple and safe process. There is no way you can render your scanner inoperable by performing the upgrade.

### **Step by step upgrade procedure**

This step by step procedure assumes that you have downloaded the 20-106/20-197 firmware upgrade package, that you have installed the drivers for the RadioShack Catalog #20-047 or #20-546 cable on your personal computer, that the RadioShack Catalog #20-047 or #20-546 USB cable is connected to an available USB port on your personal computer, and that you know the COM port number that Windows™ has assigned to the RadioShack Catalog #20-047 or #20-546 USB cable. If this is not the case, please take a moment now to prepare for the upgrade by completing the above steps before proceeding.

1. Upgrading your radio may result in the loss of any programming that you have stored. We recommend that you save your work before proceeding with the upgrade using the V-Scanner feature or a third party scanner programming software application.

2. Locate the executable upgrade file (CPUUpdater\_20-106\_197\_RU2.1.exe) that is needed for your radio. No installation is required - if necessary, move the correct file to your Windows Desktop or to another convenient location on your hard drive where you can find it when the time comes to start the program.
3. Double click the upgrader program to start the upgrade process. Follow the on-screen upgrade instructions exactly to upgrade your radio.
4. When the upgrade is complete, disconnect the USB cable from the scanner. Power the scanner off, hold down the PGM key, then power the scanner on again. Confirm that the radio now reports the CPU version as 2.1. Turn the radio off, then on again to reset it.

## ***Troubleshooting***

Most users should experience no trouble whatsoever upgrading their radios. However, if you find that the upgrade process is not working for you, here are a few things you can check:

- Ensure that the USB cable drivers are installed and that Windows™ recognizes the cable and has assigned a COM port number.
- Ensure that the correct COM port is set in the upgrader.
- Ensure that no other applications are running that access the same COM port.
- Ensure that you are using the correct upgrader program for your radio's Boot Version.
- Repeat the upgrade process, making certain that the on-screen instructions of the upgrader are followed exactly. In particular, note that the procedure for upgrading the radio's CPU firmware differs slightly from the procedure to upgrade the radio's DSP firmware.

If none of the above suggestions work, try running the upgrade utility on a different computer. In some cases hidden applications can cause port conflicts. It is not always possible to see these hidden applications and disable them to eliminate the conflict.

## ***Support***

Support for this firmware upgrade and all RadioShack products is available on the World Wide Web at <http://www.radioshack.com>.

## ***Legal***

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