Automated Test & Verification System ATV R/T

Firmware Update

Version 1.1

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ATV R/T Firmware Update Overview

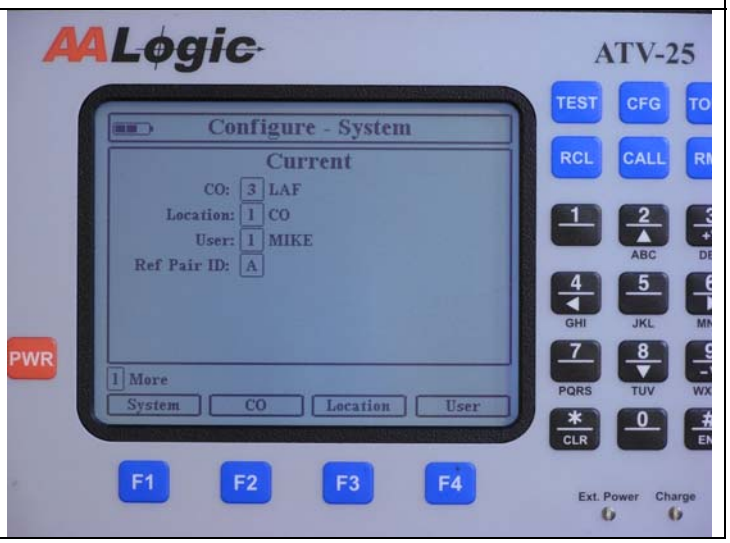
It may be necessary to update the firmware in the ATV R/T. This can be the result of an error correction and a change to improve performance.

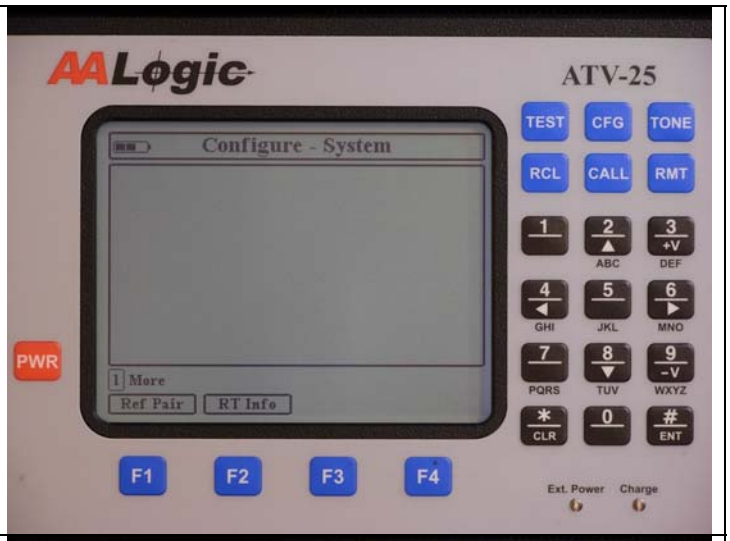
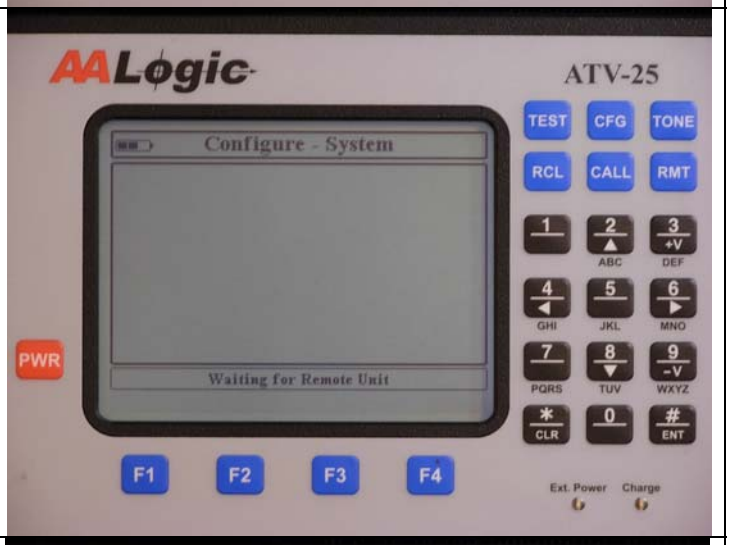
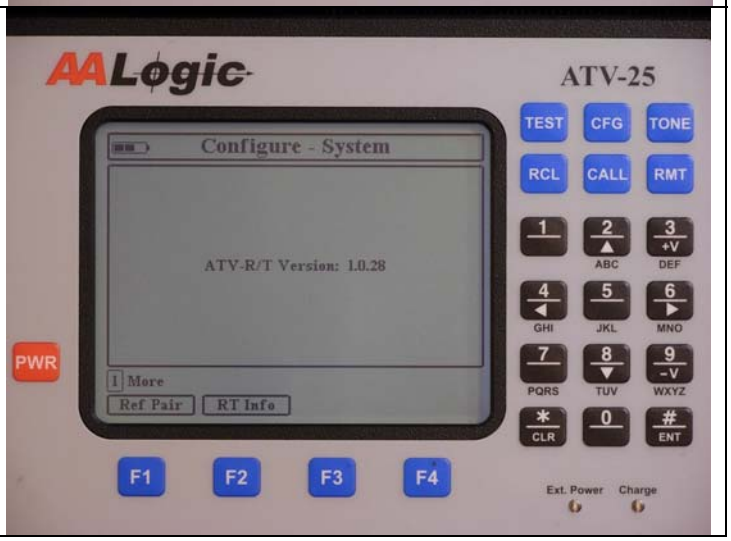
This document shows the steps to update an ATV R/T remote tagger. The versions used in this example may change in future releases but the steps are the same.

Checking the ATV R/T Firmware version

The firmware version in the ATV R/T can be checked by connecting the ATV R/T to the ATV-25. These steps illustrate the steps to check the ATV R/T firmware version.

Connect the ATV-25 and the ATV R/T as shown below.

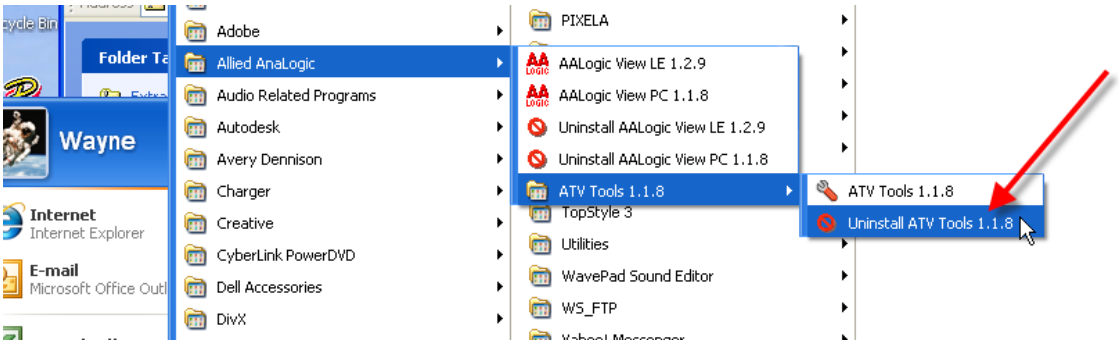
<table>
<tr>
<td>1. The ATV R/T must have power applied and turned on.
2. Connect the COMM port to the ATV-25 AUX port. This is normally done with the blue AUX cords but the red PR0 cord can also be used.
3. Connect the ground cord to the ATV R/T then connect the clip on the ground cord to the ATV-25 ground clip.
4. Turn on the ATV-25. Connect a power supply to the ATV-25 if the battery is low.</td>
<td> </td>
</tr>
<tr>
<td>Press the [CFG] key on the ATV-25. The Configure main screen is displayed.</td>
<td> 
</td>
</tr>
</table>

Press the [1] More key. The second Configure screen is displayed.	
Press the [F2] ATV R/T Info key. The "Waiting for Remote Unit" and "Connecting" messages will be displayed as the ATV-25 and the ATV R/T connect.	
The ATV R/T version is displayed on the ATV-25 screen, 1.0.28 in this case. A firmware update is needed if the version is not the same as the current version.	

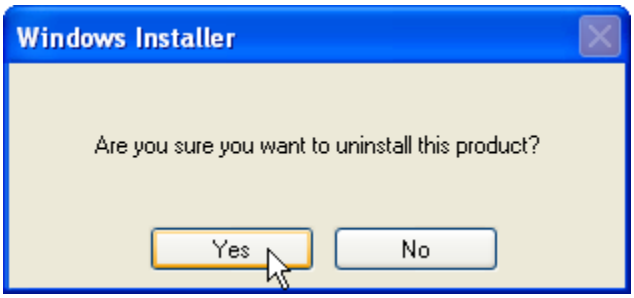
Deleting ATV Tools (Optional)

Previous installations of ATV Tools must be uninstalled before updating to the latest version. Updating ATV Tools is optional.

Go to Start > All Programs > Allied Analogic and look for any versions of ATV Tools. Click on ATV Tools and then click the uninstall option as shown below.



Click Yes when the confirmation dialog is displayed. The computer will now uninstall the existing program. You will not be prompted but it is a good idea to restart the computer when the uninstall is complete.

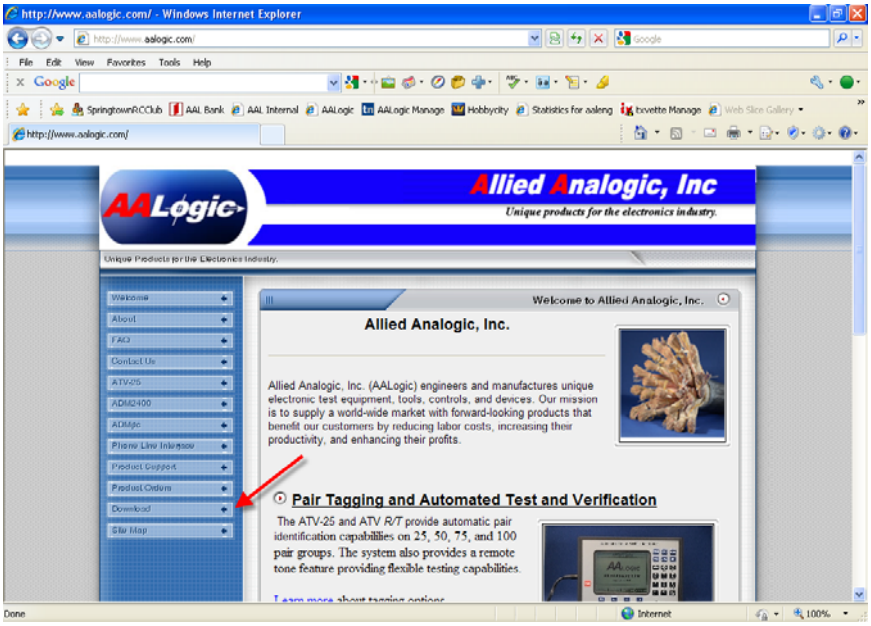


Updating to the Latest ATV Tools

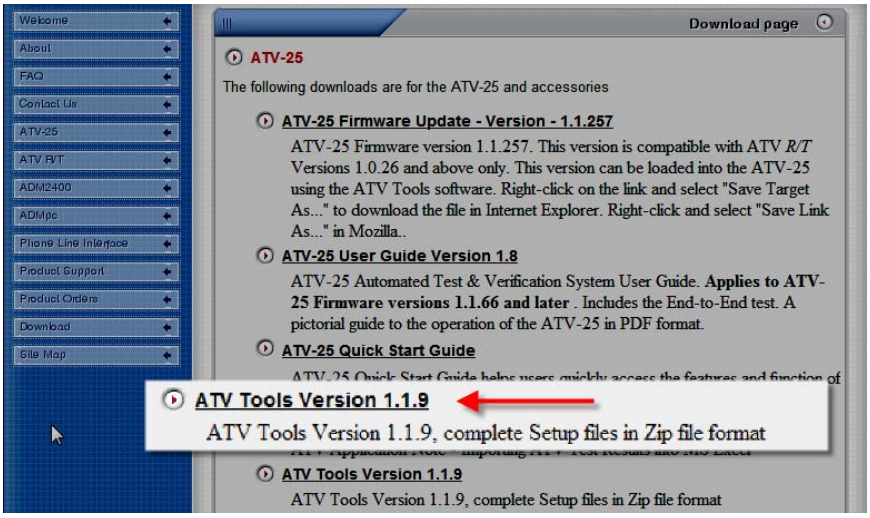
Delete the any previous versions of ATV Tools if needed. Refer to ***Deleting ATV Tools (Optional)***.

Note the version numbers in this guide may not be the latest. Always select the latest version from the Download page.

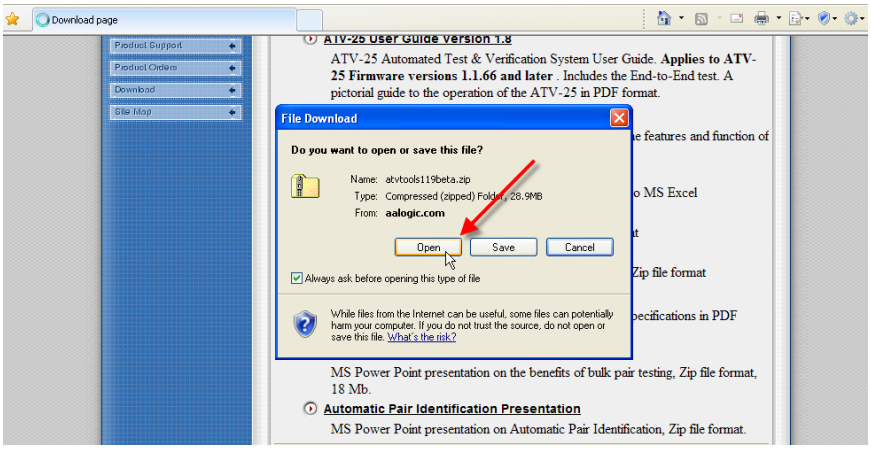
Download the latest version of ATV Tools from the Download page at http://www.aalogic.com . Click the Download page button after the homepage is loaded.



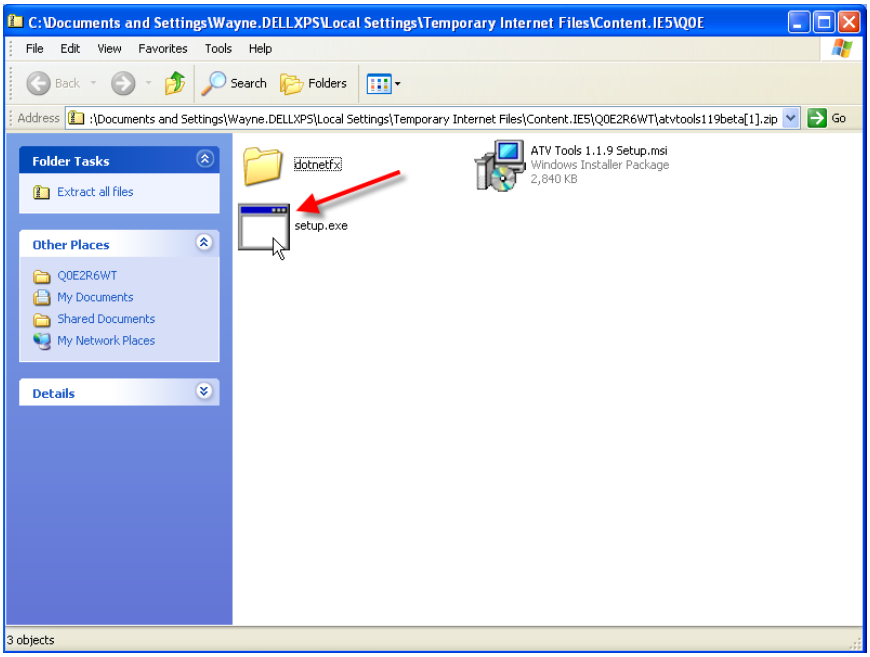
The Download page lists all the options available for our products. Scroll down the page and locate the latest version of ATV Tools, Version 1.1.9 in this example.



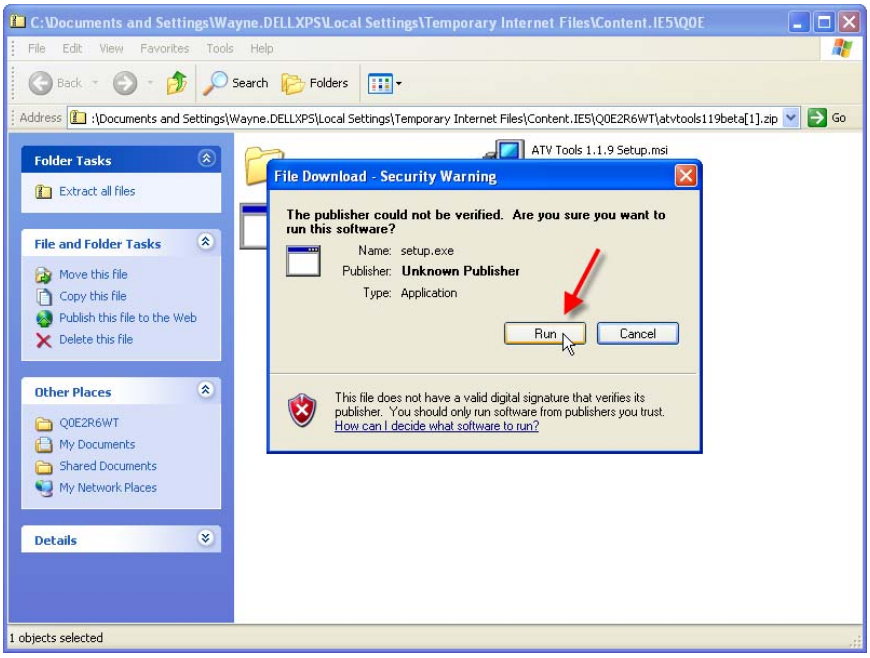
Click on the link and then click open. Saving the file to the PC is optional.



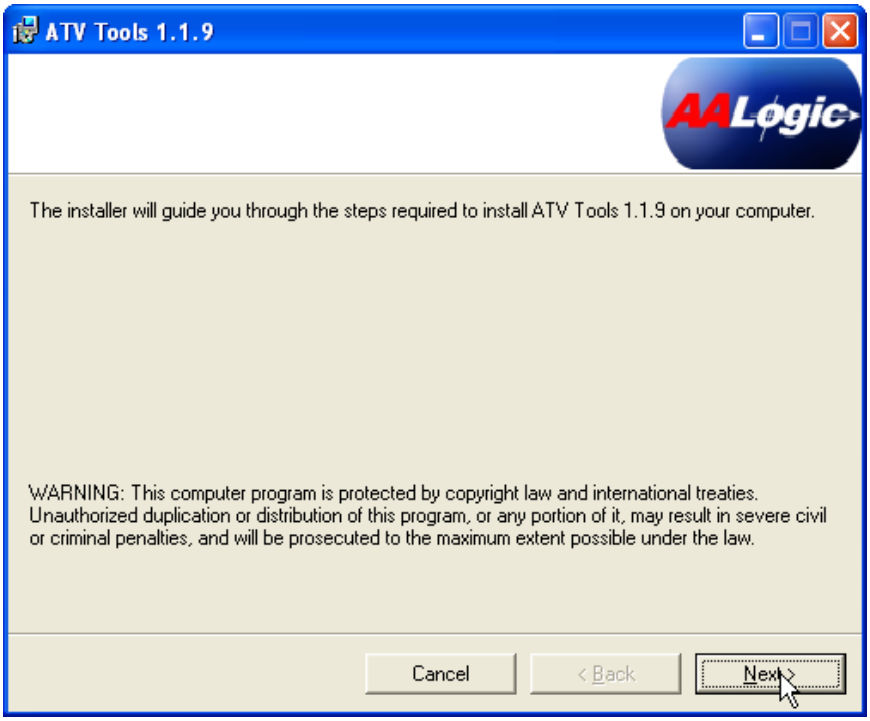
Wait for the link to open. Click on the Setup.exe file to start the installation process.



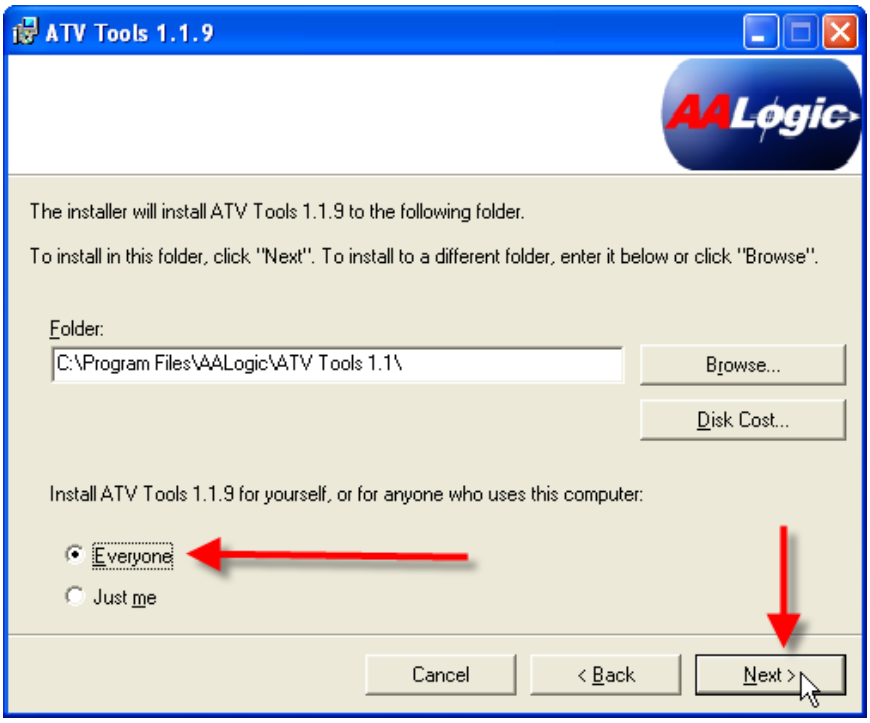
A download security warning may be displayed. Click Run to continue.



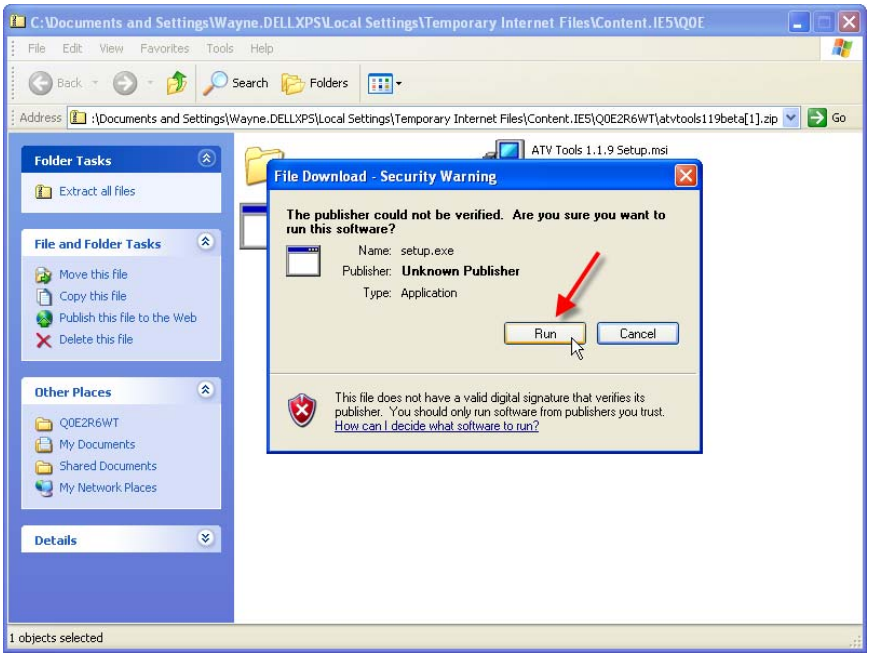
The installer program will start. You may not have removed a previous version if you see an error message. Click Next to continue the installation.



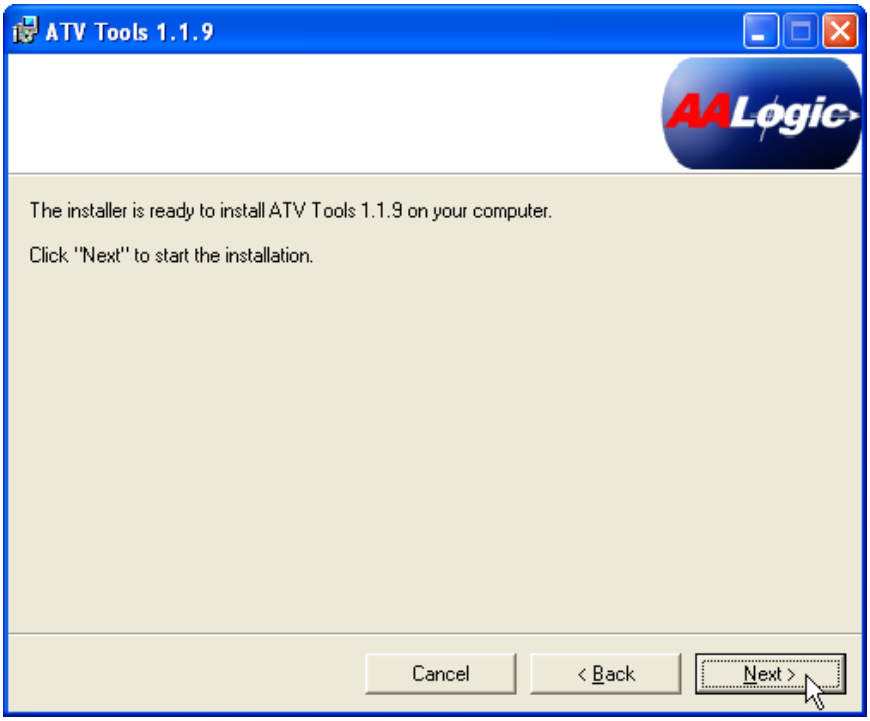
Select a location to install ATV Tools. We recommend using the default location as it is helpful should you need additional support. Click the Everyone option to ensure anyone using the computer will also be able to use ATV Tools.



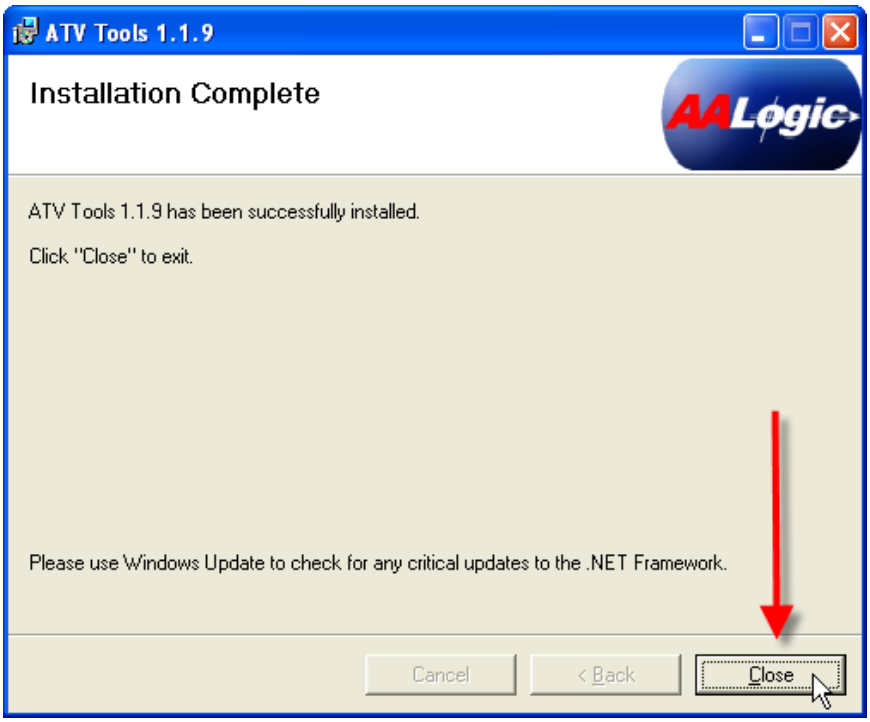
A security warning may be displayed. Click RUN to continue.



The installer is now ready to complete the installation. Click Next to Continue.



This installation will be completed and you will see an Installation Complete dialog. Click Close to finish the installation.



The desktop will now have an ATV Tools Icon like the one in this picture.

ATV R/T Firmware File Download

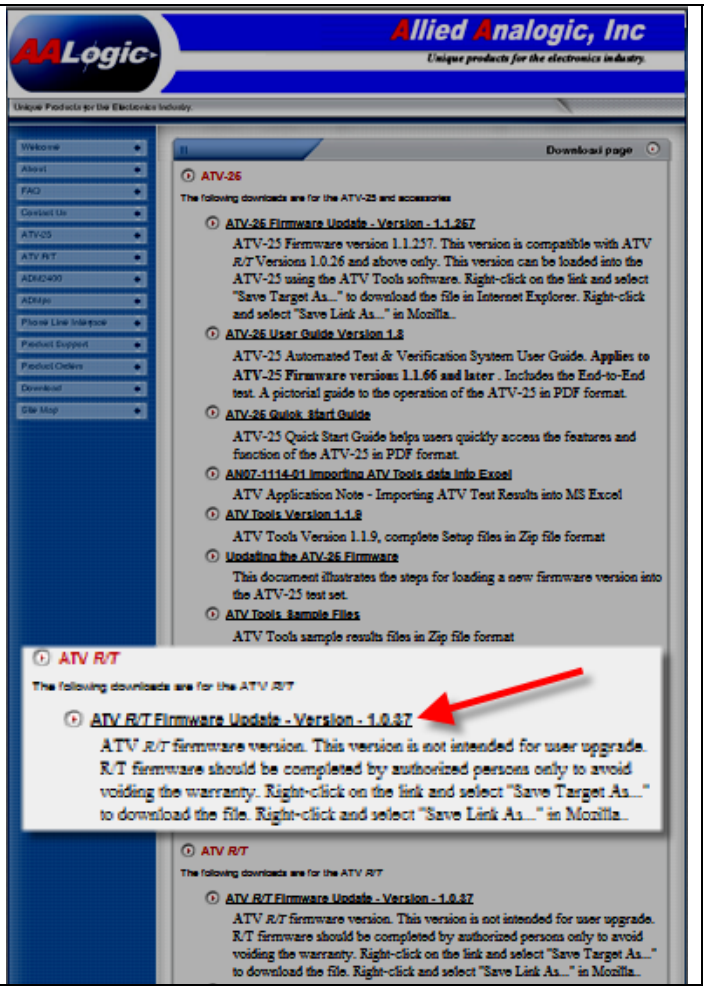
The ATV-25 firmware update file can be downloaded from the Download page of the AALogic website or may be emailed to you. The file will have a .MOT file extension. The figure below shows the ATV R/T update file for version 1.0.37. You must right-click and click Save As… to save the update file to a convenient location on your computer. We suggest you save it to the desktop or a folder on the desktop for convenience.

Go to the AALogic.com download page and copy the ATV R/T firmware update file. The download page location is:

http://aalogic.com/download.html

Scroll down to the ATV R/T section and locate the latest update file for the ATV R/T.

Right-click on the link and select "Save Target As..." to download the file in IE. Right-click and select "Save Link As..." in Mozilla.

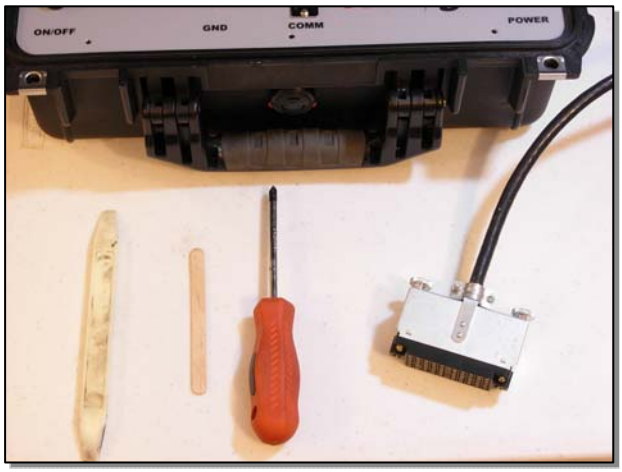


Removing the ATV R/T from the case

The ATV R/T must be removed from the case to update the firmware. This should be completed by a manufacturer's representative.

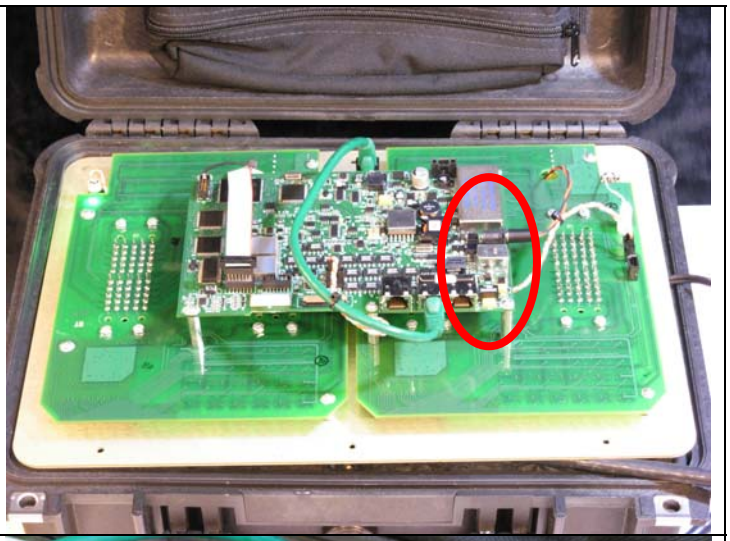
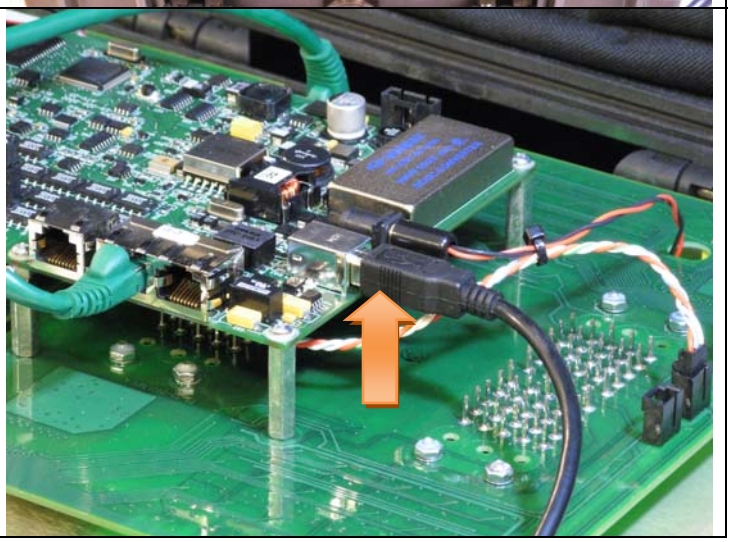
Recommended tools

- #2 Phillips (cross tip) screw driver
- Tap shoe or Cinch connector
- Plastic pry tool, hobby stick, or similar tool



Remove the six screws holding the front panel to the case.	

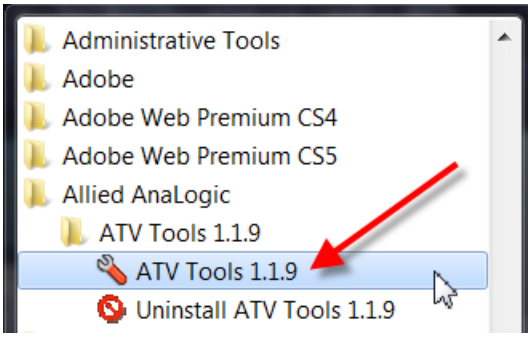
Connect a Cinch connector to the connector on the left of the ATV R/T. This is used as a handle when lifting the ATV R/T from the case.	
Lift the panel using the Cinch connector while pulling the side of the case away from the panel. The ATV R/T can be rotated up and away from the case.	
Connect the power to the ATV R/T and press the ON/OFF switch, if necessary, to turn the power on. The green LED should be on.	

Place the ATV R/T, face down, in the case. The USB connector is on the right side in this picture.	
Connect the USB cable to the USB connector on the ATV R/T as shown. The other end of the USB cable will be connected to the computer used for the update. The ATV R/T is now ready for the firmware update.	

ATV R/T Firmware Update – ATV Tools Steps

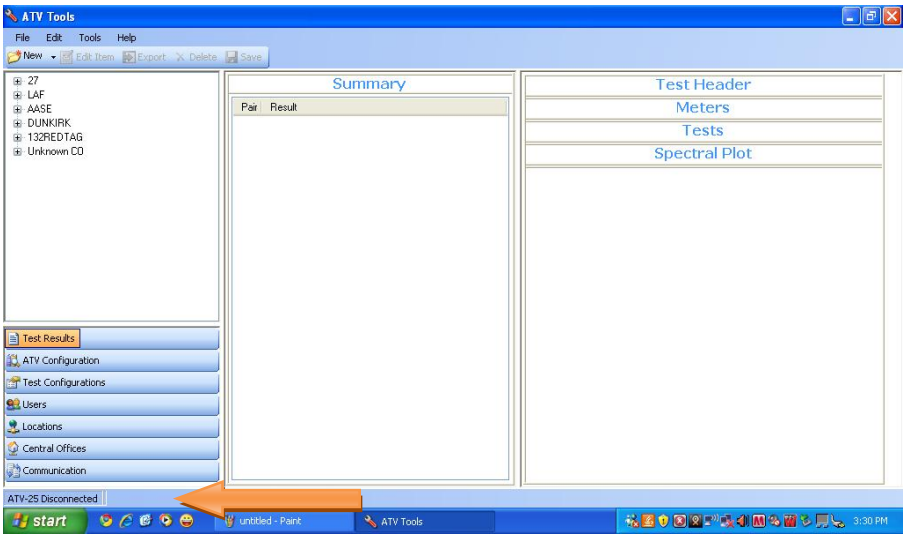
Starting ATV Tools

Click the ATV Tools Icon to start the program. You can also go to Start > All Programs > Allied Analogic and select the program from there.



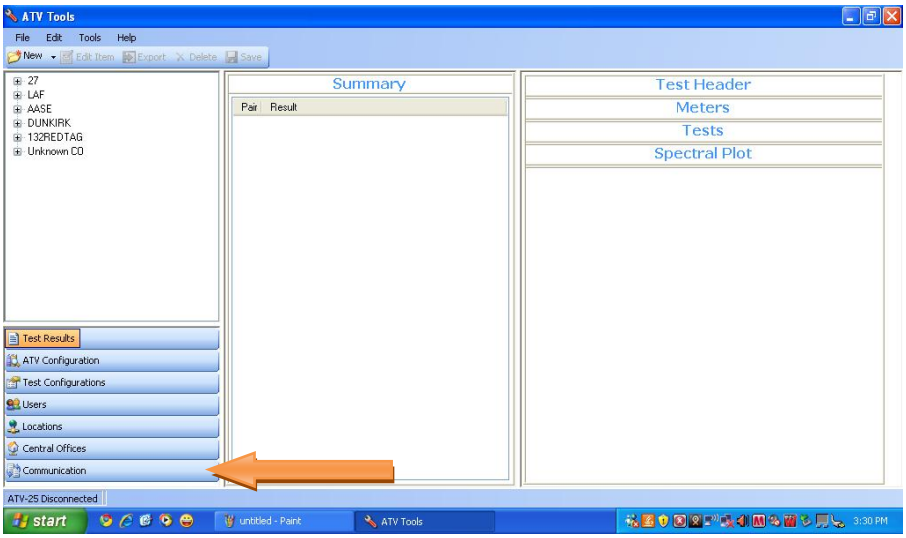
The ATV Tools program will load and display the main screen. The ATV R/T USB cord should not be connected to the PC at this time and the status will indicate Disconnected.

Note: Although ATV Tools is connected to an ATV R/T, all messages will indicate ATV-25. This is normal.

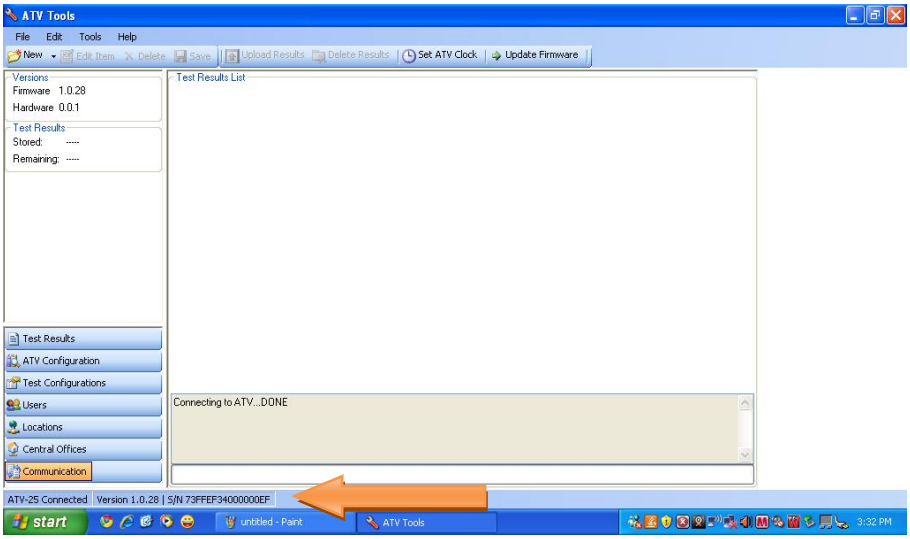


Connecting to the ATV R/T

Click the Communication button to see the Communication screen.

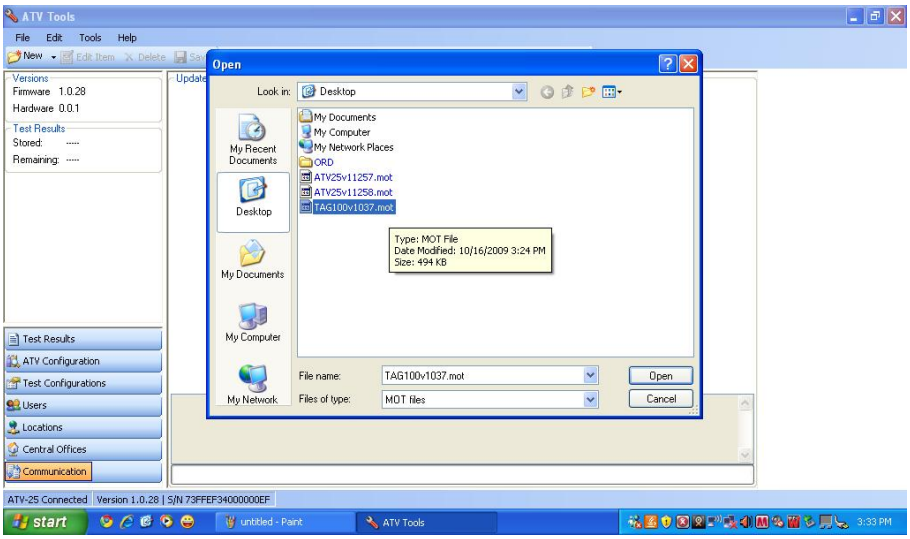


Turn on the power for the ATV R/T if not completed in the previous section. Connect the USB cable from the ATV R/T to the PC. The ATV R/T automatically detects the USB connection. The ATV Tools program will automatically connect to the ATV R/T and display the current version. It will also display the Update Firmware button on the tool bar.



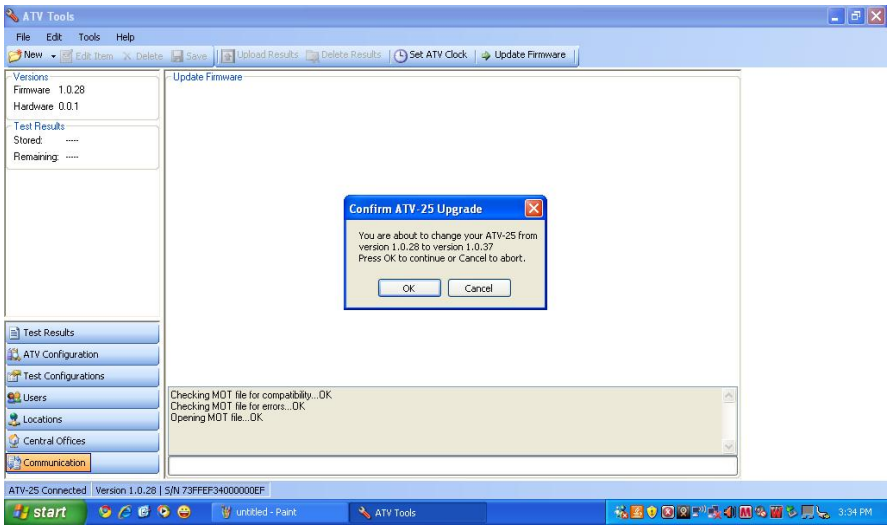
Updating the Firmware

Click on the Update Firmware button on the toolbar. The Open file dialog is displayed. Navigate to the MOT file you received in email or downloaded from the website. The Desktop is used in this example. Click on the file, TAG100v1037.mot in this example, and click Open.

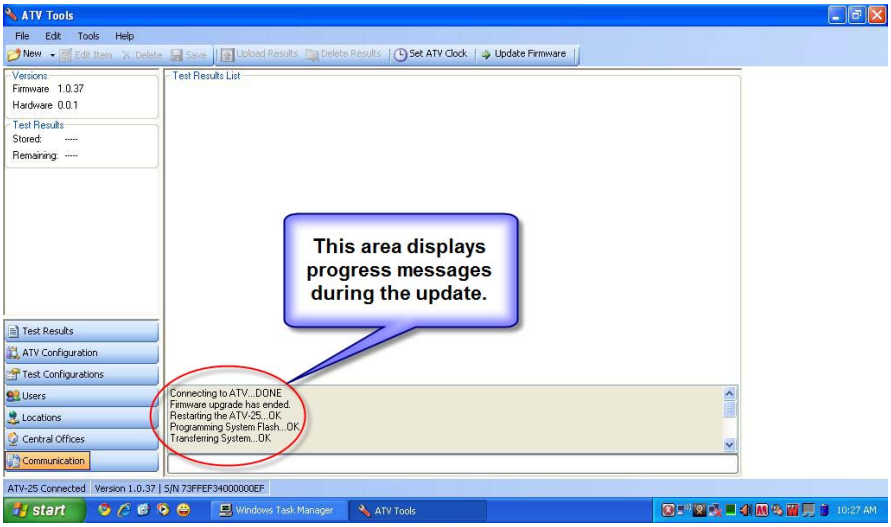


ATV Tools validates the update file and the Upgrade Confirmation dialog is displayed that shows the current version and the new version. Click OK to continue the update.

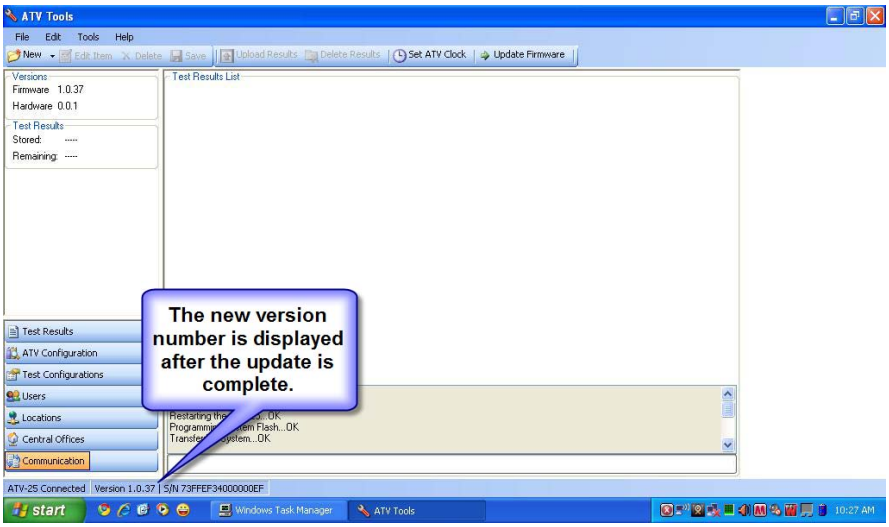
Note: Ensure the USB cable and PC remains connected until the update is complete. Make sure the PC will not enter sleep mode or power down if using a battery powered computer.



ATV Tools will communicate with the ATV R/T and update the firmware. Progress messages are displayed. The ATV R/T will reset at the end of the process. This is normal.



The new firmware version is now displayed in the ATV Tools program. A problem occurred if the version number does not match the new version and the update must be repeated.



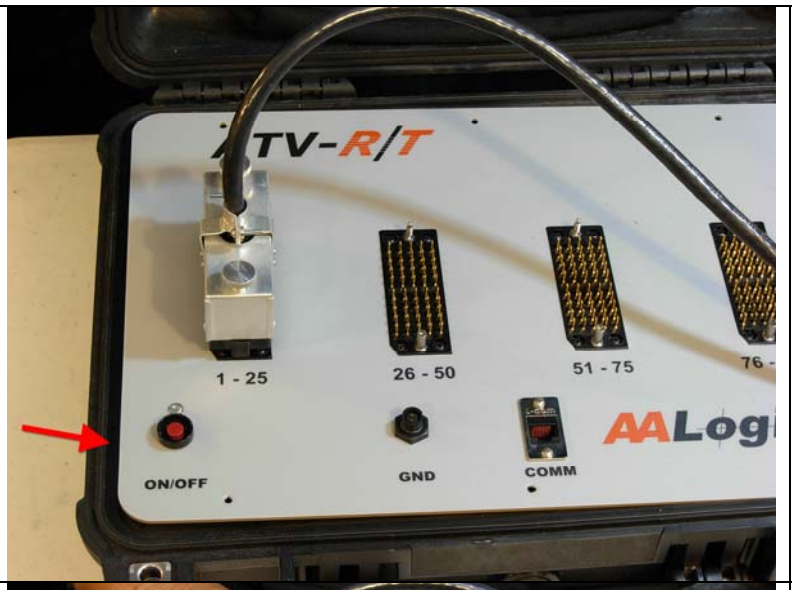
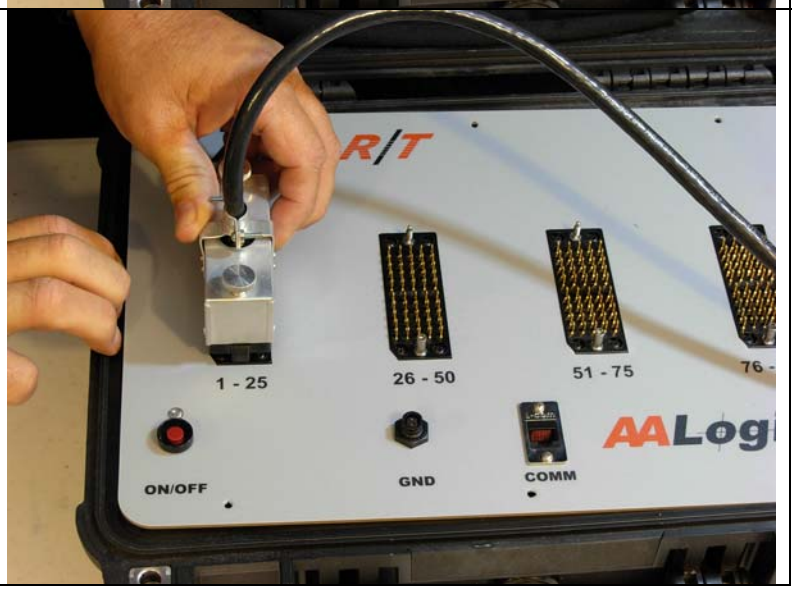
The current firmware version is displayed at the lower left corner of the ATV Tools screen. This must match the version that was just loaded. Repeat the update if the version number is incorrect. Unplug the USB cord from the ATV R/T.

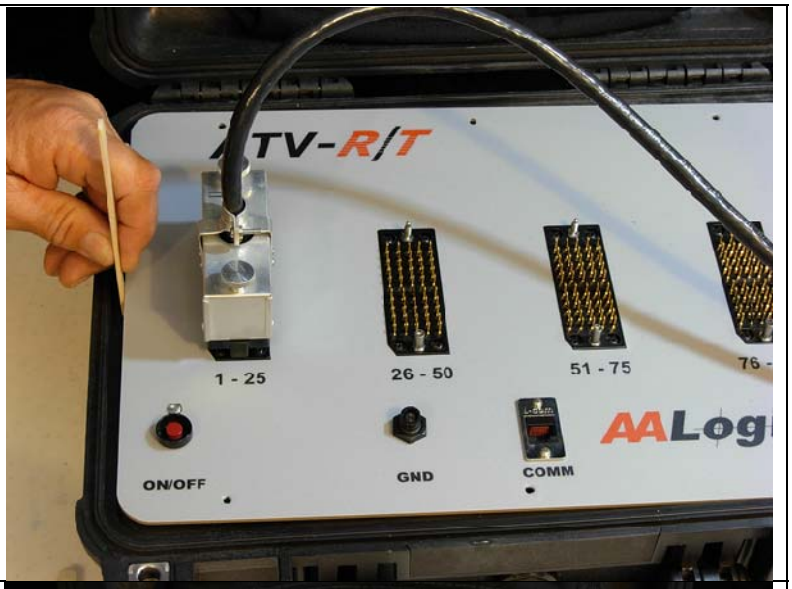
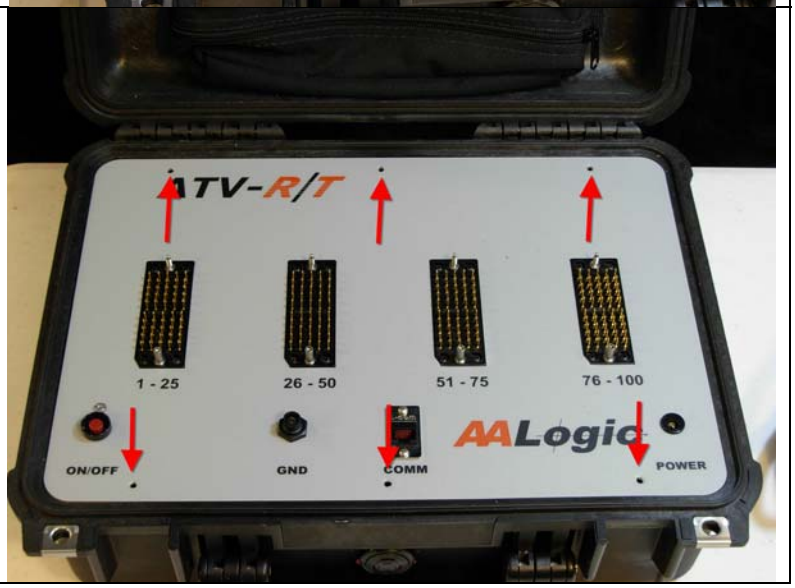
This completes the firmware update.

Reassembling the ATV R/T

The following steps are used to reassemble the ATV R/T.

Disconnect the power cord and the USB cable from the ATV R/T. Place the ATV R/T on the front of the case using the Cinch connector as a handle. The right side of the panel should be all the way down on the case and the left side will be slightly raised.	

The gap on the left side between the panel and the case requires outward pressure on the case to allow the ATV R/T to completely seat on the case.	
Using the Cinch connector as a handle, apply outward pressure on the side of the case. The panel should clear the edge of the case and seat. ***Note: Attempting to force the panel into the case without outward pressure on the side of the case may cause damage to the ATV R/T.***	

If more pressure is needed, a hobby stick or plastic pry bar can be used between the panel and the top edge of the case. ***Note: Use of metal tools may result in marks on the edge of the ATV R/T panel.***	
Remove the Cinch connector and reinstall the six panel screws and nylon washers. Return the power supply and all the cords to the ATV R/T bag and place the manual on the front of the panel. This completes the update.