Flashing New Firmware to DTA S-Series ECUs

To complete this task you will need the following Items;

- Serial Flash Cable

- Serial Port or USB to serial adapter

- ST10 Flasher Software

DTASWin For S Series ECUs
DTASWin v80.07

- DTA Swin Software

S Series ECU Flash Program
S Series ECU Firmware Upgrade Software

You will need to have the software installed and ready to use before starting this process.

If you have not previously set up the Serial ports/USB adapters please follow the guides for this before continuing.

Connecting the ECU

Connect the ECU to a power source (car or bench power supply) and turn on.

Connect the ECU to the PC via the Flash Serial Cable.

First check you can connect to the ECU by the normal methods by turning on DTA Swin

You can check the Firmware version at the top of the window. In this case it is 79.06.
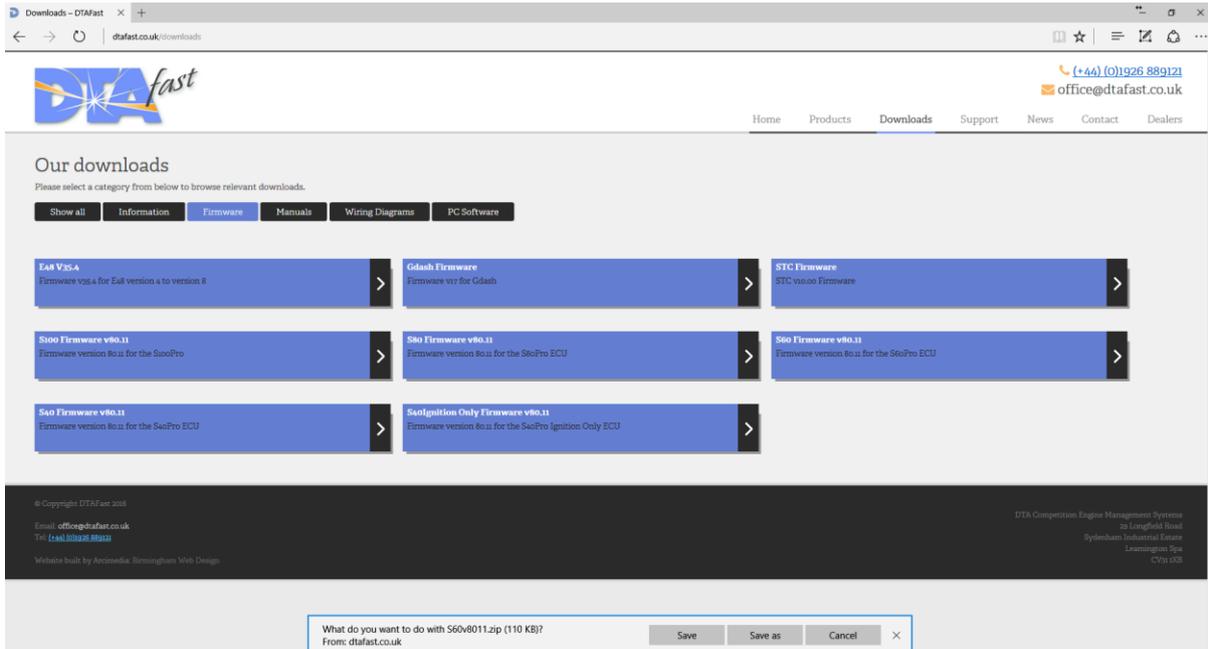
If you have problems connecting to you ECU, please refer to the Serial Connection Guide or contact DTA/your dealer for support.

DTA Fast
29 Longfield Road
Leamington Spa
CV31 1XB

t: +44 (0) 1926 889121
e: office@dtafast.co.uk
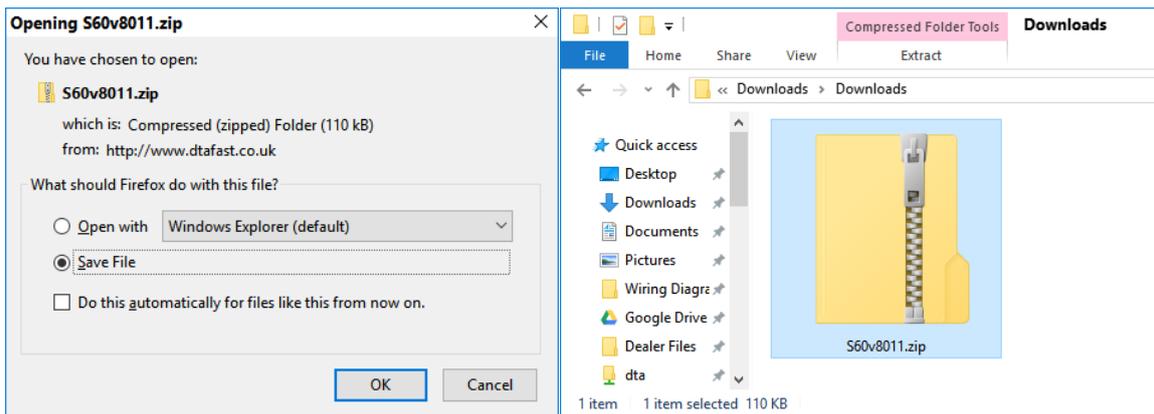w: www.dtafast.co.uk

Downloading the New Firmware

The latest ECU firmware is available to download from the DTA website downloads section under the firmware tab as shown below.

ONLY USE FIRMWARE INTENDED FOR YOU ECU.

Using firmware for a different model of ECU may cause damage and void your warranty.

When clicking on the firmware you require save the file to a location you will remember we have chosen to save this to our downloads folder.

The files are saved as a .ZIP file. Select the file and the click extract. The following dialog will appear. Different versions of windows may show this slightly differently.

You MUST extract the files to allow the STflasher software to see the new firmware.

When you have extracted the files, remember where you have saved them as you will need to navigate to them later.

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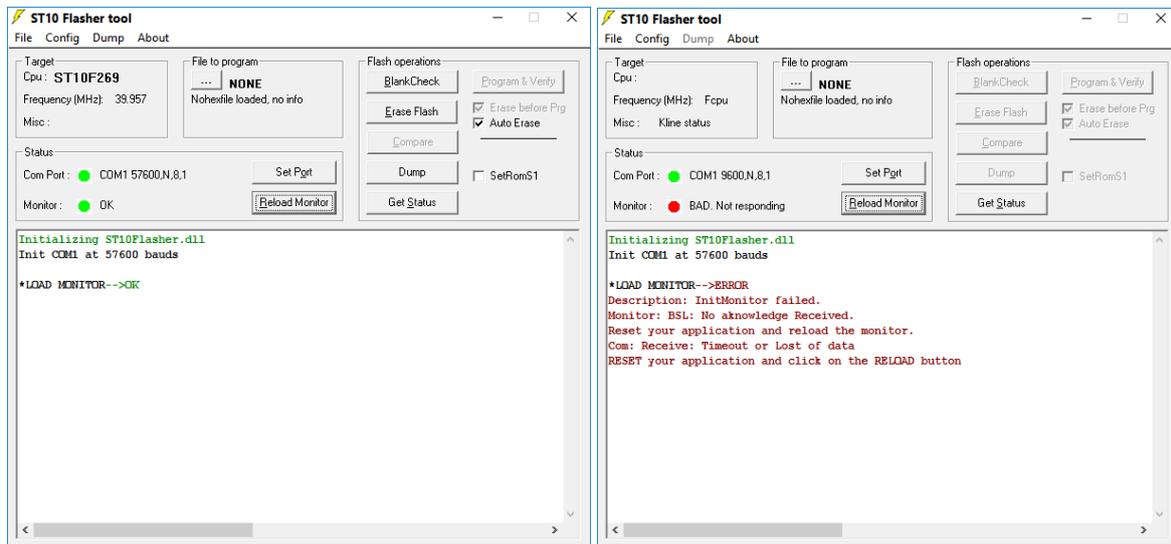## Flashing the ECU with the new Firmware

On the Flash serial cable **press the button and hold,** as shown, and continue to hold.

Turn off the power to the ECU, wait 5-10 seconds, and then turn the power back on
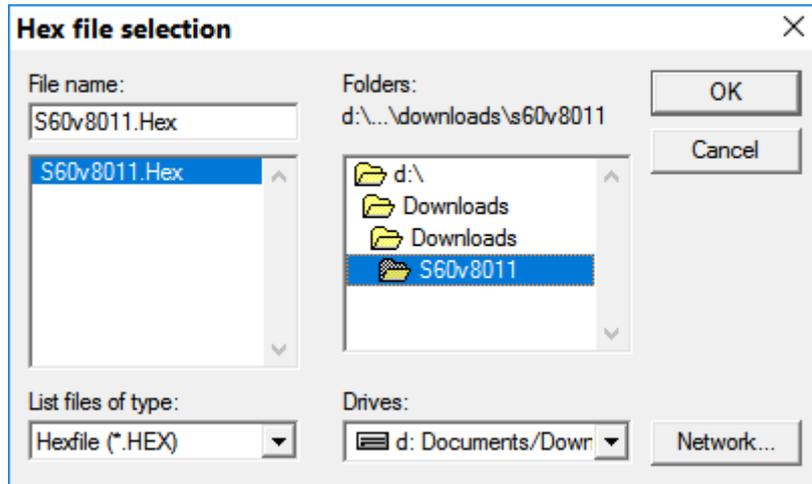
Open the **ST10 Flasher Tool**

If the Com Port and monitor lights are green, release the flash button. If the monitor light is red check the serial port connections and attempt the process again.
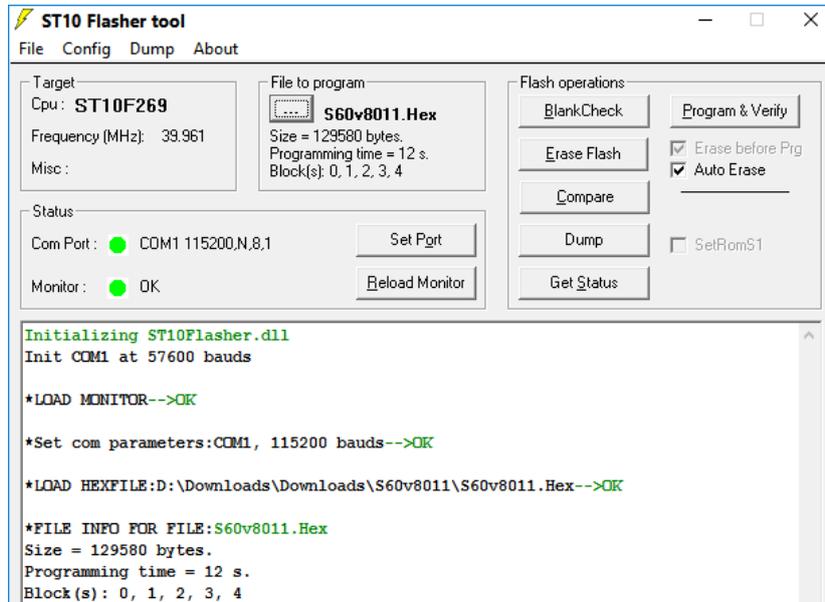

If you have the two green lights as shown on the left you can continue.
Select the firmware by clicking ⬚ in the centre of the window under 'File to Program'.

This will open a window where you must navigate to the location of the extracted firmware file. As before the file in this example is in downloads. If you cannot find the file, check it has been extracted correctly.

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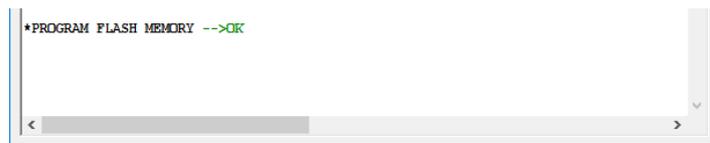e: office@dtafast.co.uk
w: www.dtafast.co.uk

Once selected the file name will appear in the window in green as shown below. You can now click 'Program & Verify'.

This process may take several minutes.

Be sure NOT to turn off the power or attempt to close the STflasher software during this process as it may cause damage to the ECU.

When the process is complete "program flash memory →OK will appear.

You can now close the STflasher software and restart the ECU by turning the power off and on again.

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Checking the ECU Firmware Update

After turning the power off and on again to restart the ECU, open DTA Swin to confirm the Firmware update. The firmware version should be shown at the top of the window.

Alternatively you can check the Diagnostic display under the 'display and test functions' menu for the model and firmware versions.

If you are given an error starting DTA Swin that the firmware is too new, try downloading the latest version of DTA Swin from our website. The software number should always be the same or higher than the firmware.

Congratulations your ECU has now been updated.