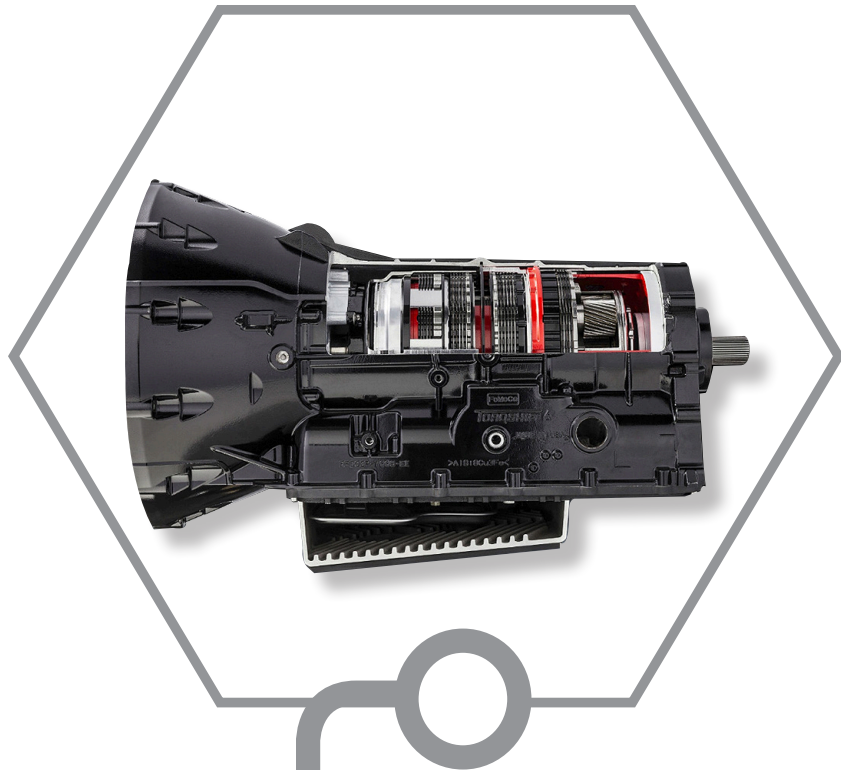


**FORD 6R140** TRANSMISSION



2011-2019



## Ford 6R140 Transmission Installation Instructions

The 6R140 transmission requires certain diagnostic and flashing tools in order to be installed. Currently in order to install this transmission you must have a Ford IDS scan and flash tool. Without this tool you will not be able to complete the installation. Do not begin installing this transmission unless you have a Ford IDS in your possession.

Our transmission requires FORD FACTORY TCM files for tuning. We do not allow ANY aftermarket transmission tuning to be ran with our transmission. Failure to install these factory files via the IDS will cause erratic shifting and likely transmission failure! DO NOT use a tuner provided "Return to stock" TCM file as this is NOT the file your truck was designed to work with from the factory but rather a random file from a random truck that is NOT calibrated for your vehicle! Always use the IDS to reflash Ford Factory TCM tuning after any engine file reflashes!

After installing the new transmission, you will need to connect your IDS and flash in the correct solenoid strategy code . Here are the steps:

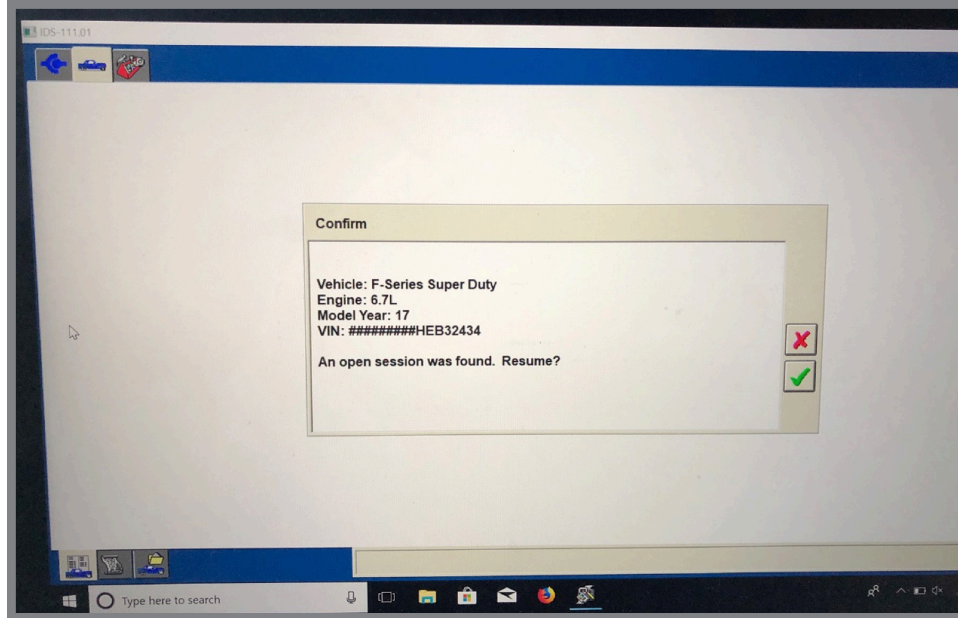
### **Part 1. Flashing New Solenoid Strategy Code**

1. Using your aftermarket programmer, return the truck back to stock programming
2. Connect the IDS and Start New Session,
3. Select All other
4. Select Powertrain
5. Select Transmission
6. Transmission Characterization
7. Type in the provided solenoid strategy provided on the photo sent with your new transmission

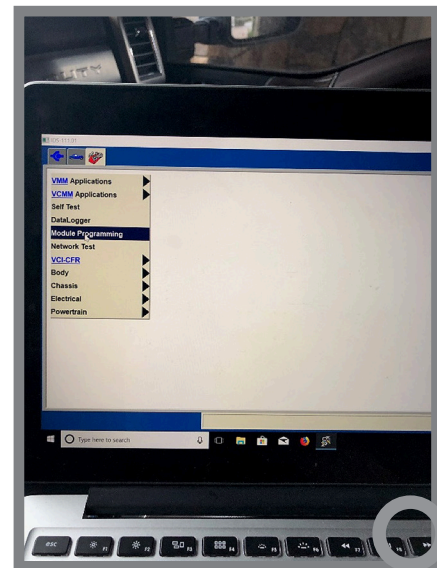
If you are planning on changing your engine tuning (reflashing a new program or file) you need to do so now. Once you proceed to the next step you will be flashing the TCM. The flashing of the TCM must be the LAST process you do.

## Part 2. Flashing TCM back to Ford Factory specifications

Connect your IDS back up to the vehicle and RESTORE the session you started when you flashed in the new solenoid strategy.

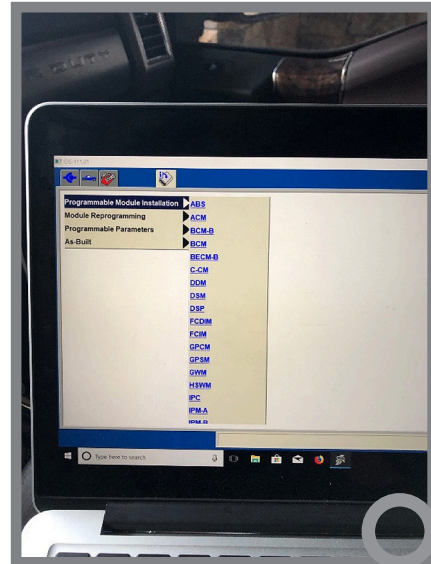


### 1. Select Module Programming



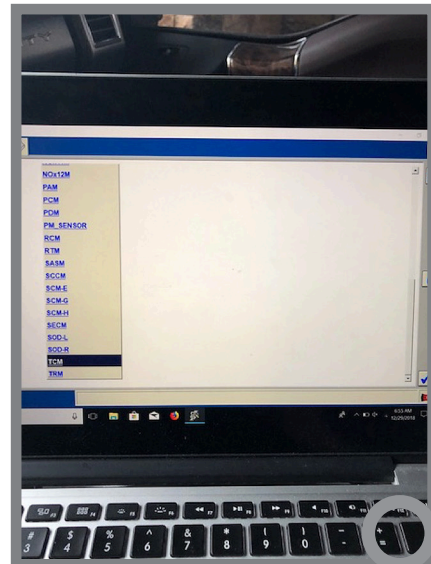
Step 1

## 2. Select Programmable Module Installation



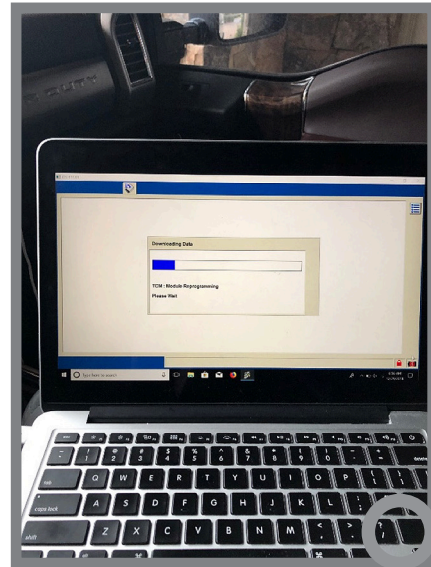
Step 2

## 3. Select TCM



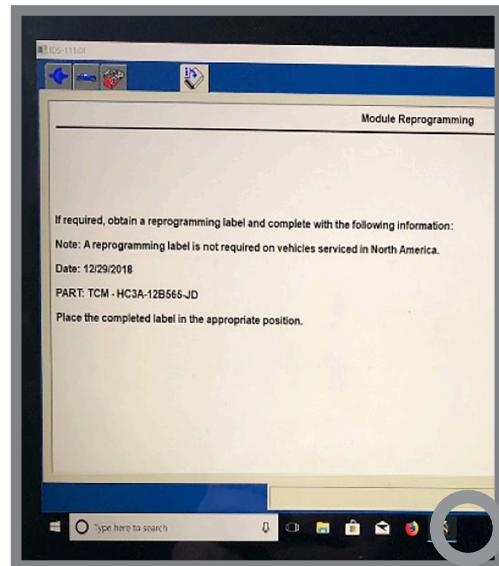
Step 3

4. Follow the steps to program the TCM.



Step 4

5. Once the programming is successful, you will get this message. This message verifies it has overwritten the TCM with a Ford file and you are now ok to begin the drive learn cycle.



Step 5

You may now begin to break in and drive learn the transmission. This is accomplished by completing the following steps:

1. Using 25% throttle accelerate from a stop up to 6th gear and then allow the vehicle to come to a slow stop. Do this 10x
2. Using 50% throttle accelerate from a stop up to 6th gear and then allow the vehicle to come to a slow stop. Do this 5x



**Do not exceed 50% throttle until the next step below has been accomplished.**

**It will take 5 days with overnight cool downs before the relearn process is complete.** You will have a 1-2, 2-3 and 3-4 slip flare FIRST THING in the AM when cold until the TCM adapts to the transmission. Once these shifts issues are gone, you can exceed 50% throttle. It may take some mid and heavy throttle runs after the initial break-in process for it to learn these higher throttle positions correctly, this is normal.

### **\*\*\*IMPORTANT\*\*\***

**Anytime you update your engine tuning (reflash any file via a programmer) you MUST then reflash the TCM with a IDS scan tool afterwards and then recomplete the drive learn process. Failure to do so will cause erratic shifting, and possible catastrophic transmission damage!**

The steps for this procedure are:

1. Using your aftermarket programmer, return the truck back to stock programming
2. Connect the IDS and Start New Session
3. Once the New Session has started, save the session and exit out of the IDS.
4. Install your new engine file via your programmer.
5. Do the steps previously outlined in Part 2. above for flashing TCM back to Ford Factory specifications

You may now begin to break in and drive learn the transmission. This is accomplished by completing the following steps:

1. Using 25% throttle accelerate from a stop up to 6th gear and then allow the vehicle to come to a slow stop. Do this 10x
2. Using 50% throttle accelerate from a stop up to 6th gear and then allow the vehicle to come to a slow stop. Do this 5x



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