

# Ultra Tuner Installation Manual

## 2013+ Up Model Ram 6.7L with RSA Encryption

Important Note! If you have any technical issues and require technical support, please include the following four pieces of information with your request!

1. Year
2. Model 2500 Pickup 3500 Pickup 3500 Cab Chassis 4500 Cab Chassis 5500 Cab Chassis
3. ECM Calibration Version Number  
(It is critical that you include this number, you will find this number by going into Ultra Main Menu//RaceME Info//ECM Information/ECM Version: XXXXXXXXX)
4. Transmission type: Manual Automatic 68RFE Automatic Aisin HD

(If you have an automatic transmission and are unsure if it is the 68RFE or the Aisin HD an easy way that you can find out is by calling your local dealership with the last 9 digits of your VIN number)

To install the Ultra tuner on your 2013+ Ram 6.7L.

Connect the Ultra tuner to the OBDII connector under the dash, you can either route the RSA unlock cable directly through the firewall and secure with the supplied zip ties or you can temporarily route through the window if you plan to disconnect once the vehicle is tuned. Connect the RSA unlock cable directly to the ECM as pictured in this manual using the supplied connector connected in line with the OBDII connector.

In the Main Menu select ECM and Install tuning, you can select with or without horsepower added, there is no special sequence required for the RSA encryption unlock, the tuner does this itself while it is flashing the truck.

Once the tuner is finished the flash install process, which requires you to follow the prompts on the Ultra screen for key on / off cycling, the unlock cable and the tuner can be disconnected and removed. However, there is no reason to disconnect the unlock cable from the ECM and we advise installing and routing the cable through the firewall for a permanent installation.

**IMPORTANT NOTE:** If you are uninstalling the tuner/ tuning, the RSA unlock cable **MUST** be connected to the ECM when you return the ECM to stock software. Without the unlock cable in place the tuner will not be unlocked as it requires the RSA encryption to be re-activated in the ECM.

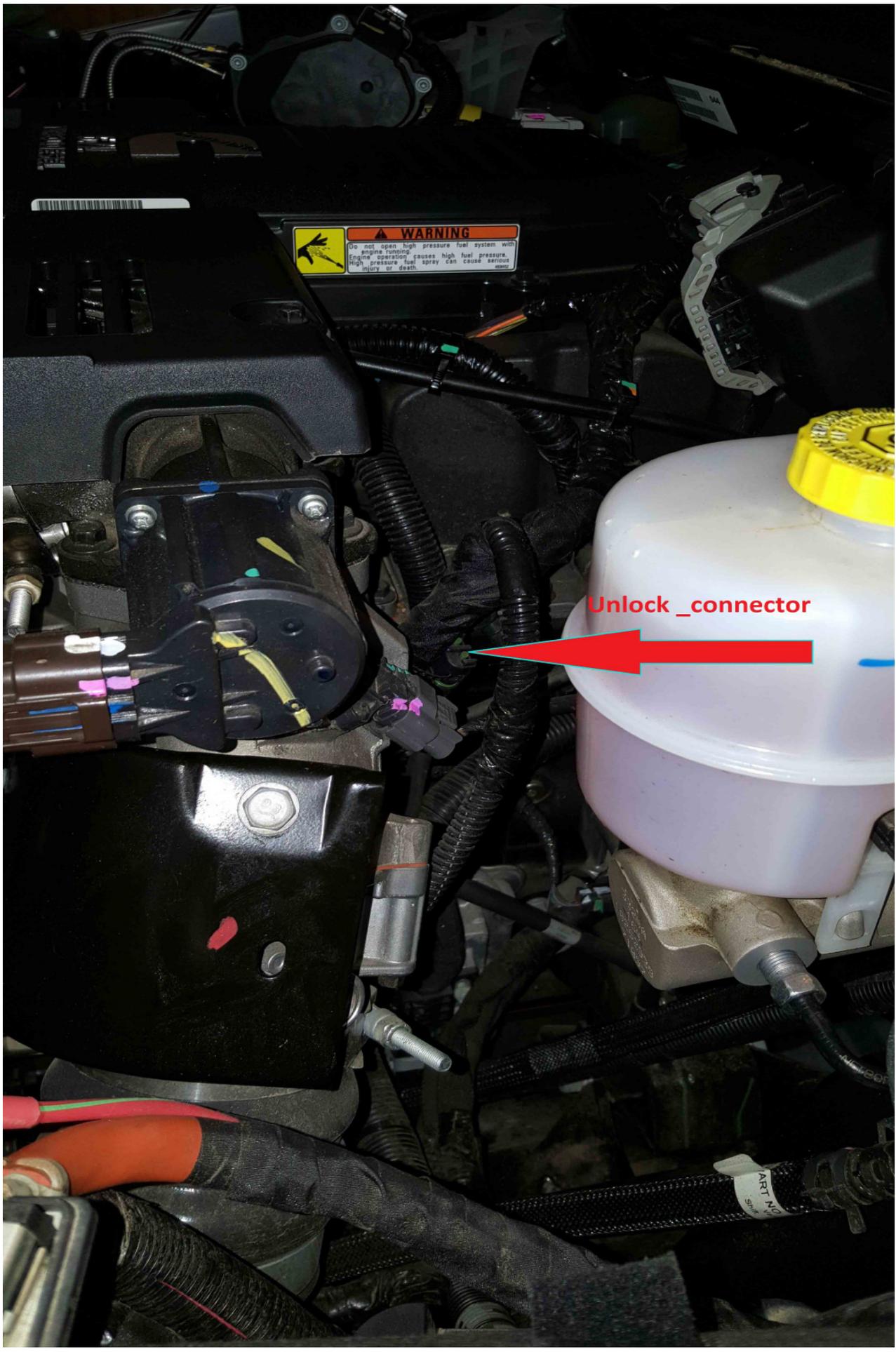
We also have additional features planned that require the RSA unlock cable to be connected!

Information to follow on these added features!

How and where to connect the RSA Unlock Cable to the ECM:

This instruction applies to model year 2013 and up Ram 6.7L engines, this is not required on any models prior to 2013.

The RSA unlock cable must be plugged into a connector between ECM and air horn. The connector has a plug in place from factory that we refer to as the “dummy plug”, this is only a plug that simply seals the connector.



**WARNING**  
Do not open high pressure fuel system with engine running.  
Engine operation causes high fuel pressure.  
High pressure fuel spray can cause serious injury or death.

Unlock\_connector

The location of this connector is not in same place on every truck! On some models you can easily locate it below the air horn (the air horn is on the driver's side of the engine, towards the front of the engine)

However, on some models it is lower down in the engine compartment and you can locate it at the top right edge of the ECM, on the front ECM connector harness.

Sometimes it is wrapped with tape and not easily visible. The connector has 3 pins with only 2 wires connected, the first wire is white with blue tracer and the second wire is white with green tracer wire.

Here a view of the connector on one of the trucks where it is hard to find and see.

