



Jeep Grand Cherokee EcoDiesel Install Instructions

Thank you for the purchase of the GDE Engine Tune for your Jeep Grand Cherokee EcoDiesel! We are confident that you will be satisfied with the transformation in your vehicle. Presently the tuning method is via direct ECU flashing, so within these steps you will either be swapping your stock ECU for the one flashed by GDE; or, you are removing your stock ECU and sending to GDE for flashing.

In order to swap the ECU in your Jeep Grand Cherokee EcoDiesel, please follow the below steps once ensuring that the key has been in the off position for 2 minutes (to ensure that the currently installed ECU has gone to sleep):

1. Remove both connectors to the engine controller. Starting with the upper (large) connector, lift up on the latch handle on the top. The connector will push itself away from the ECU as your lift up the handle. Once free, push away to have room. Repeat with the lower (smaller) connector. When the connectors are free, leave the handles in the out (unlatched) position.
2. Remove the ECU from the bracket. It is attached with three 8mm bolts. We recommend to loosen all three bolts first, then they can be removed by hand.
3. Install the GDE flashed ECU to the bracket. Install all three bolts hand tight, then use an appropriate tool to tighten the bolts slightly snug. It is not necessary to excessively tighten the three ECU attachment bolts.
4. Proceed to reconnect the ECU connectors by performing the reverse of step 3. Start first with the small connector which goes in the lower position. Make sure the connector handle is still in the out (unlatched) position, then lightly push the connector squarely over the ECU's mating connector until you feel some resistance. Next start to close the latch handle. During this step you will feel some slight resistance from the seal of the connector as the latch draws the connector down onto the ECU. Continue pressing until you feel a slight click indicating that the handle is fully closed. Repeat with the upper (large) connector.



Post-installation notes

After installing the GDE tuned engine controller, please perform the following steps to complete the install process:

1. Key on, wait 10s
2. Key Off. Wait for the complete ECU power-down sequence (if you are listening under the hood, you will know it is complete when you hear a click and the various actuators stop humming). This could be up to 1.5-2min.
3. Key on. Within the 1st 10s after the key on, press the accelerator pedal three (3x) times in order to trigger the oil life reset. The ECU is programmed with an odometer value of 0km, and not performing this step will leave you with “Change Oil Now” messages on the cluster or a very low oil life % if your present odometer value is less than 16100km / 10000mi.
4. Start the engine. Place the transmission in “D” and quickly get the vehicle speed above 5mph, then stop again. The DEF gauge should have updated if it did not already when starting the engine.

Regen message: You will note that on the dashboard is present the “Exhaust Filter Full, Please drive on highway” message. This message and the corresponding regeneration request have been invoked since it’s not known what the last soot percentage was before the ECU swap. Please drive the vehicle and monitor the on-screen prompts until the “Regeneration Completed” message is displayed or the messages disappear. This prompt will not appear again unless the soot mass increases above 90% based on your driving style.

Return Shipping of core ECU

Please ship back your core ECU in a padded USPS envelope and reuse the static bag and bubble wrap from the tuned ECU sent by GDE.

Shipments of core ECUs can be directed to:

Green Diesel Engineering
1032 Rig Street
Commerce Township, MI 48390

We appreciate your efforts to ship back your stock core ECU within a couple days of having installed the ECU tuned by Green Diesel Engineering.



**GREEN DIESEL
ENGINEERING**

WWW.GREENDIESELENGINEERING.COM



EDC17C79 engine controller for Jeep Grand Cherokee EcoDiesel.

White circles represent where fasteners will be for attaching the ECU to its support bracket.



**GREEN DIESEL
ENGINEERING**

WWW.GREENDIESELENGINEERING.COM



Jeep Grand Cherokee EcoDiesel.

The engine controller is mounted vertically on its bracket in between the coolant de-gas bottle and the power distribution center (inside the white circle at lower left corner).