

# Kennedy Diesel

Sales and Service

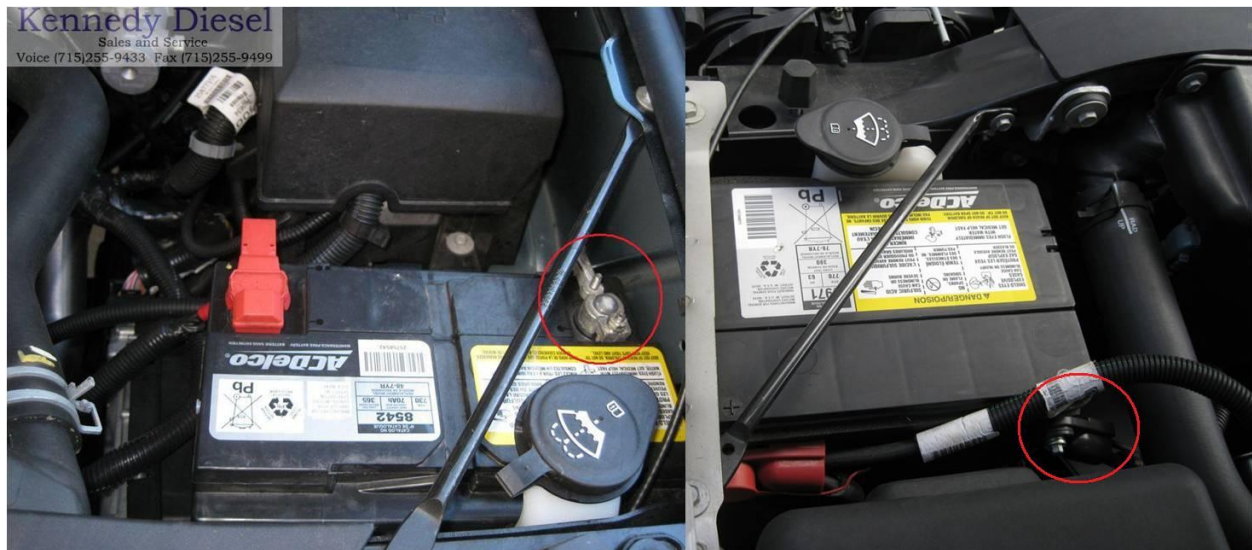
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## Kennedy Diesel ECM Installation – 2006 – 2007.5 LBZ and 2007.5 - 2009 LMM Duramax Diesel

The Kennedy Diesel tuned ECM offers a quick and easy upgrade to the LBZ or LMM Duramax Diesel. Whether you are looking for improved fuel economy, towing or a full out race program, the ECM swap is a simple process that can be completed with simple hand tools. This installation guide will walk you through the process step-by-step.

Choose a well lighted work area and open the hood. Locate and disconnect the ground leads on both batteries. The LBZ equipped trucks utilize the side terminal batteries, the LMM trucks use the top terminal batteries:

Drivers side battery:

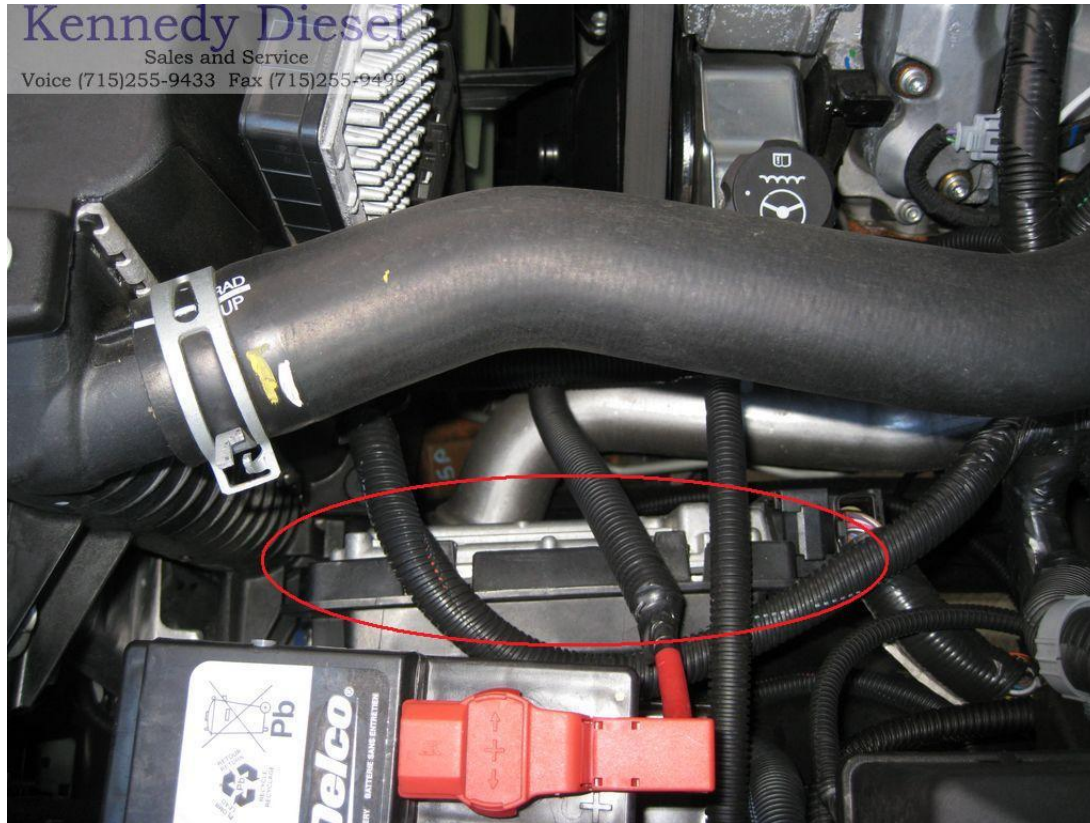


Passenger side battery:

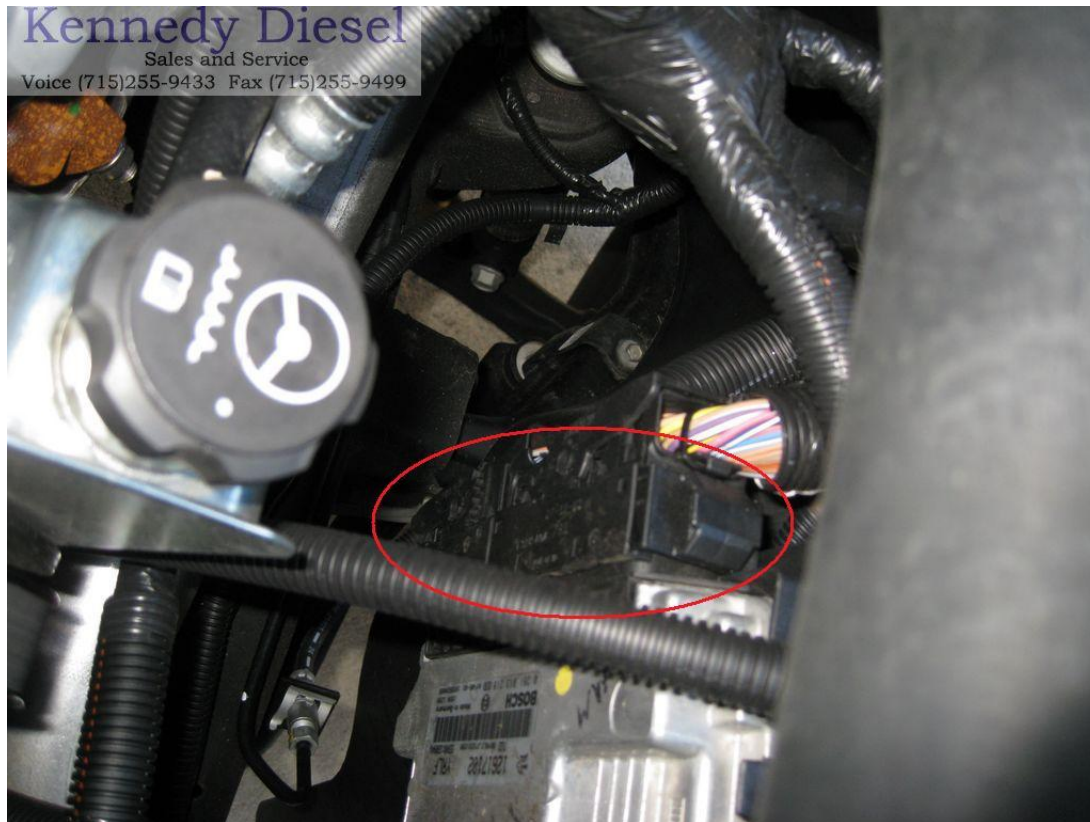


Installers Note - The battery disconnect is standard for any electrical system work and is recommended by GM. It is cheap insurance to protect the system from electrical damage, however in practical experience the ECM swap can be done with the batteries connected with minimal risk.

Once the batteries have been disconnected, locate the ECM on the driver's side, near the battery:



There are two electrical harness bundles using a lever actuated Weatherpack connector that connect the ECM to the main wiring harness:





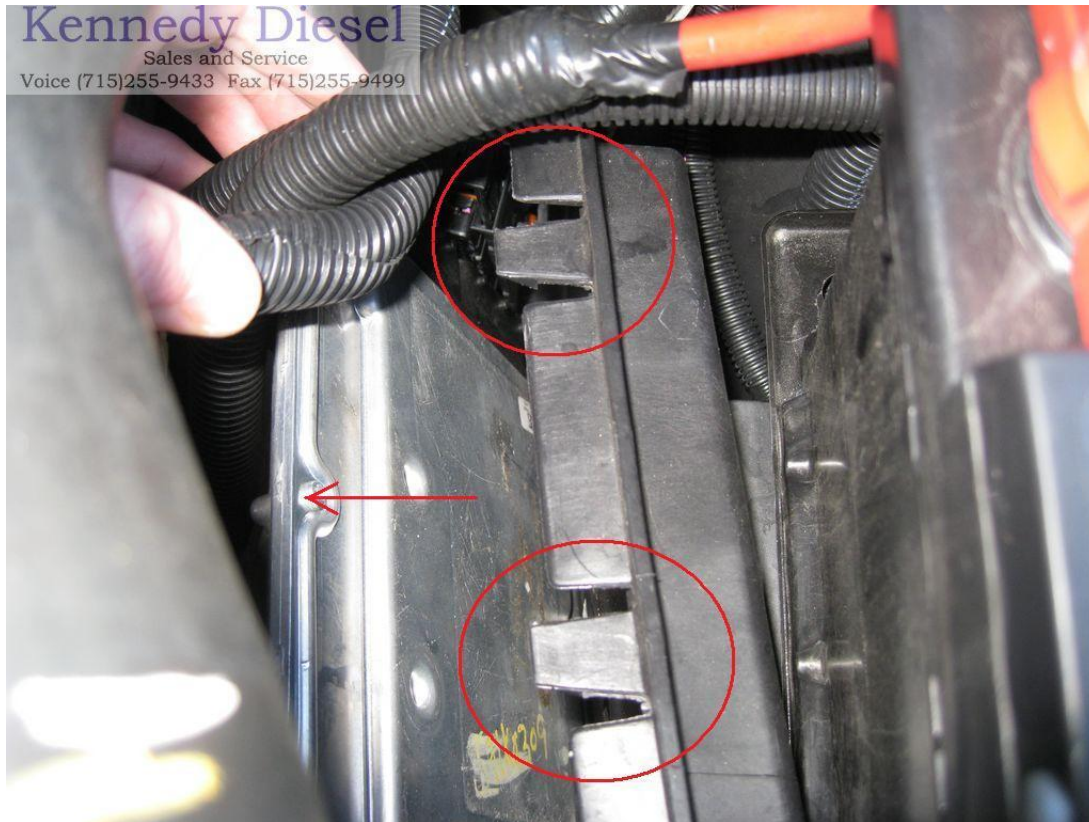
Release the Weatherpack connectors by raising the lever:



With the locking lever raised pull the connector straight back off the ECM. Start with removing the lower, smaller Weatherpack connector first. The larger Weatherpack can be seen removed here:



Once the Weatherpack connectors have been disconnected, locate and release the ECM retainer tabs along the top of the ECM carrier. While lifting up on the retaining tabs apply pressure on the ECM by pulling it towards the passenger side of the truck:





With the ECM released, remove it from the carrier and remove it from the engine bay. It should slide out nicely by going under the positive battery cable, and by going up between the power steering pump and the upper radiator hose:





A look at the larger and smaller ECM connectors:



Next install the replacement ECM. The ECM cooling fins should be facing out and the larger ECM connector should be oriented on top upon reinstall:



Take the same route back in to place the ECM back in the ECM carrier. Press on the ECM to ensure it fully seats and engages the locking tabs:

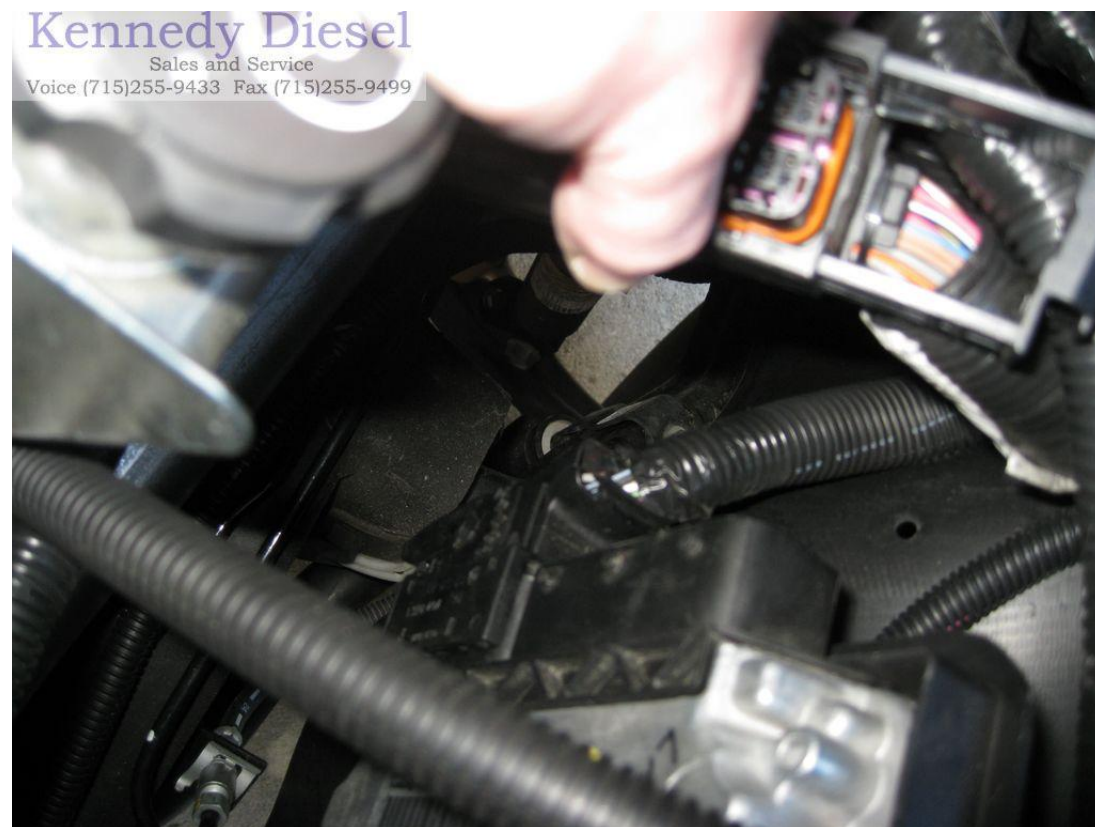




The Weatherpack connectors have slots that must match up with the pins on the ECM connector:



Line up the pins, place the Weatherpack connector on the ECM and use the locking lever to seat the connector in place. Begin with installing the lower, smaller Weatherpack connector as it cannot be easily installed if the larger, upper Weatherpack connector is installed first:



The upper connector is shown above locked in place for reference:





Once the connectors are installed, re-connect the battery ground cables and test starting the truck.  
There should be no problems starting the engine or check engine lights:



Take a test drive and enjoy the newly installed Kennedy Diesel ECM.

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