



WAVE TUNE

Part # 309-589-X

ThunderMax eXhaust Matched Series ECM

Thank you for purchasing a ThunderMax ECM! Please read through the following instructions before beginning the installation procedure. Following these instructions will ensure that the ECM is installed and setup properly for optimal results. If you have any problems or questions, please visit our website at Thunder-Max.com for additional guides and support information.

"DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES" The user shall determine suitability of the product for his or her use. Installation and use on a pollution-controlled vehicle constitutes tampering under the U.S. EPA guidelines and can lead to substantial fines. Review your application and check your local laws before installing.

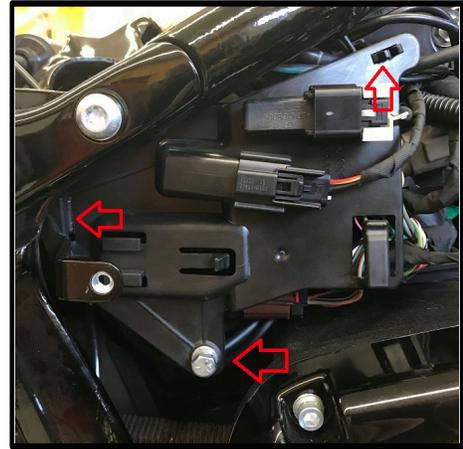
***CA Proposition 65** "known to the state of CA to cause [cancer] [birth defects or other reproductive harm]" see www.p65warnings.ca.gov for details

Step 1 Install the new ThunderMax ECM. Remove both side covers under the left and right side of the seat, to access the factory Electronic Control Module (ECM). Remove the seat for additional space during the installation. Remove the main fuse.



Special Note – If you have previously installed another tuning device such as a Power Commander, be sure to remove the device and any "O2 Sensor Eliminators" that may have been installed at the sensor harness plugs at that time!

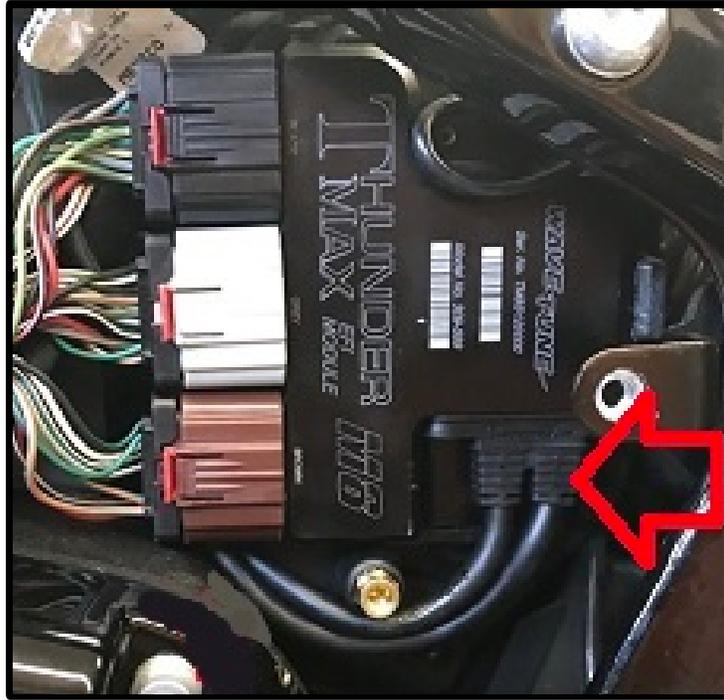
Step 2 Remove bolt, depress tab (upper left), disengage panel from hook at rear, move the small electrical panel towards the front of the bike out of the way.



Step 3 Disconnect the stock ECM from the three connectors by depressing the tab on the top of each connector. Slide ECM towards the front of the bike to remove from the electrical caddy.



Step 4 Install main harness connector to ThunderMax ECM. Before installing connector, lightly apply some dielectric grease (included in package) on harness connector terminals, and on the inside lip of the connector port opening of the ECM to allow the rubber weather seal in the connector plugs to slide into place without binding. 'Tip' Also apply Dielectric grease to the TAC connector on the side of the Throttle Body.



shown with 309-UXM Wide Band upgrade harness installed.
309-589-X will have a silver block off plate at this location.

Step 5 Re-install the ECM fuse and go to Part 2 Software / setup to complete the install. Replace the side covers and seat, when completed.

This product is upgradeable

The XMS series is designed specifically for a stock HD non CVO® engine with a high flow air cleaner assembly with a specific exhaust.

Later you decide to do any other performance upgrades to your engine, the XMS series by ThunderMax is upgradeable to the same functionality as the ThunderMax Wide Band Autotuning system. For more information check with your place of purchase or contact ThunderMax support @ tmaxsupport@thunder-max.com.

Continue To Part 2 Software / Set up Guide for Instructions on finalizing your install with Map loading and speedo calibration verification. Look for your engine size with NB or HNB next to it, then match the rest of components as close as possible.