

# Installation Tips for XR 1200 Models

1. Remove the seat and seat pan (orange) assembly. Remove the left side cover, exposing the main fuse panel. Remove the main fuse.



2. Remove the (3) bolts that attach the steel frame bracket to the frame, exposing the factory ECM.



3. Remove the lower inner fender bolt and allow the inner fender to rest on the rear tire. Unplug and remove the factory ECM from the inner fender.



4. Install the ThunderMax ECM to the inner fender using (2) 6mm x 20mm socket head screws. Route wires as shown.



5. Install optional ThunderMax Pigtail connector # 309-324 to 36 pin harness connector per connector instructions, or modify steel frame bracket to allow ThunderMax communication cable access to the T-Max ECM cable port. Connect ECM to 36 pin; remove factory O<sub>2</sub> sensors.

6. Route front sensor harness through gap between swingarm and frame. It's a tight fit; turn connector so that locking tab boss faces forward, and open plug area faces to left side and it will slide through. Feed connector under transmission.



7. Route front O<sub>2</sub> sensor from under transmission through gap between lower frame rail and primary cover, along frame rail to front exhaust pipe. Carefully wind O<sub>2</sub> sensor harness 3-4 turns counterclockwise before installing into exhaust pipe; turn clockwise while installing to unwind harness. Connect plug.



8. Route rear O<sub>2</sub> sensor and AutoTune power harness between left frame rail and oil tank. Install O<sub>2</sub> sensor into rear exhaust pipe and connect plug. Plug AutoTune power harness into 4-pin (gray) data port plug as shown.



9. Route Pigtail harness connector to top of frame triangle in front of left side shock for easy access under left frame cover. Re-mount inner fender and steel frame bracket with ECM attached.



10. Secure harnesses away from hot or moving parts using supplies wire ties. Re-install main fuse, seat and seat pan/fender assembly.