AUTOTUNE

INSTALLATION GUIDE

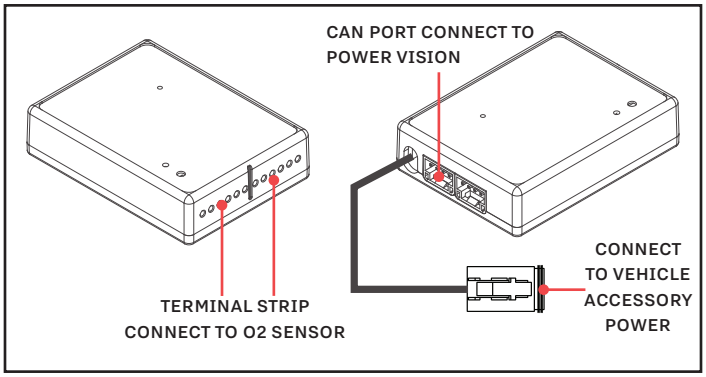
For Use With Harley-Davidson CAN ECU Models

PARTS LIST AT-120B

1 AUTOTUNE	**1** 24” O2 SENSOR CABLE
1 CAN CABLE	**2** O2 SENSOR BUNGS
1 Y-ADAPTER CABLE	**2** VELCRO
2 O2 SENSOR	**3** ZIP TIE
1 52” O2 SENSOR CABLE	

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

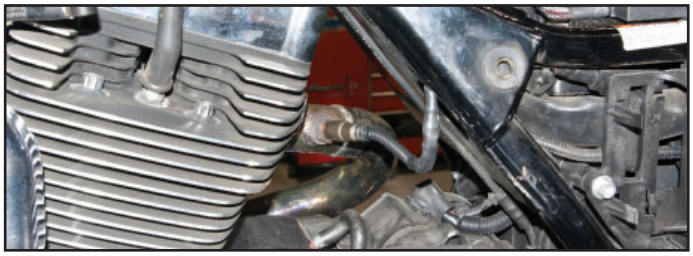
INTRODUCTION



AUTOTUNE OVERVIEW

Thank you for purchasing the Autotune Kit from Dynojet Research. This kit is designed to be used exclusively with the Dynojet Power Vision. The Autotune module by itself does not tune your vehicle; rather it transmits wideband Air-Fuel Ratio (AFR), or more precisely, Lambda values to the Power Vision. This data is critical to determine exactly how rich, or how lean your vehicle is running. Unlike narrow band oxygen sensors, the Bosch wideband sensors included in this Autotune kit are extremely accurate at all operating ranges of your vehicle.

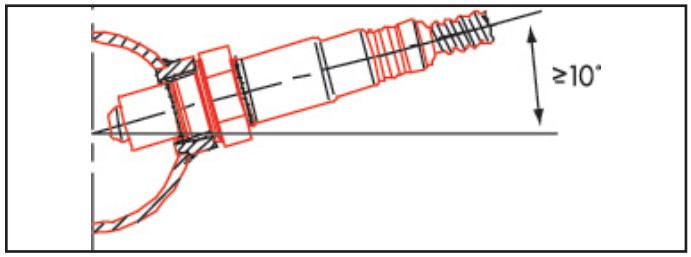
INSTALLING THE FRONT AND REAR WELD BOSS



REAR LOCATION INSTALLATION



FRONT LOCATION INSTALLATION



10° INCLINE OF THE SENSOR

Use the following instructions to install the front and rear weld boss.

1 Find a suitable location to install the included M18 x 1.5mm bungs on the exhaust system.
Note: Suitable locations may vary depending on exhaust system.

2 Mount the bungs in a manner that reduces the risk of moisture contamination to the sensor, as condensation can build up in the exhaust system. Ideally, the sensor should be between the 9 o'clock and 3 o'clock position on the pipe, a 10° incline of the sensor should be considered a minimum.

3 Mark the pipe where the bungs will be mounted.
Note: Adequate room will be needed for the sensor body and wiring.

4 Remove the exhaust system.

5 Drilling and welding of the exhaust system should be done by a professional.

6 Reinstall the exhaust system.

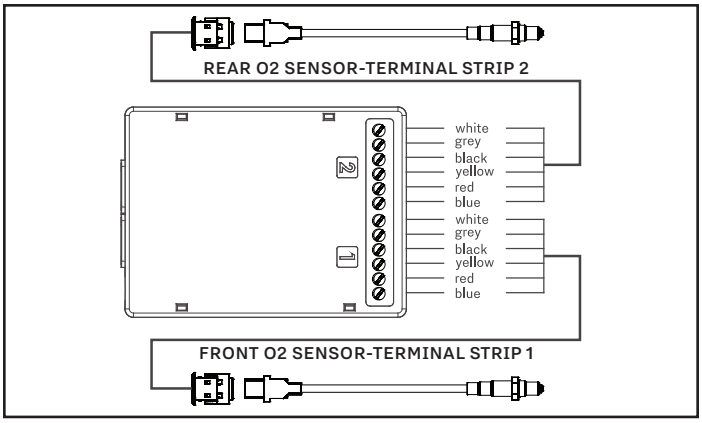
CONNECTING THE SENSOR CABLES

1 Connect each O2 sensor cable to the O2 sensors and route the cables ending near the diagnostic port.
Note: Verify each cable is free and clear of any hot or moving parts.

2 Attach the six wires from the front O2 Sensor cable to screw terminal 1 on the Autotune module.

3 Attach the six wires from the rear O2 Sensor cable to screw terminal 2 on the Autotune module.
Note: The harness can be cut to length if desired.
Note: To make inserting the wires into the module easier, first poke the hole with a paperclip or similar device. Also tinning the bare wire ends with solder can help.

4 Install the terminal strip plugs.



CONNECT THE FRONT AND REAR SENSOR CABLES

INSTALLING THE AUTOTUNE MODULE

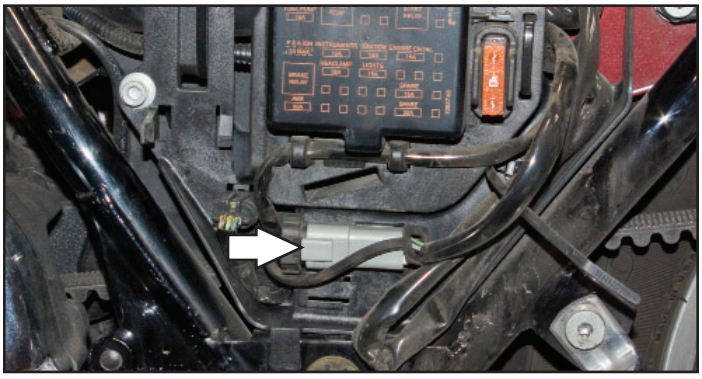
1 Find a location to mount the Autotune module and secure it with the supplied Velcro. The top of the ECU is typically a good mounting location for most touring models. Be sure to clean the mounting surfaces thoroughly with the supplied alcohol swab.

2 Attach the cable from the Autotune module to the y-adapter cable and then to the diagnostic port on your motorcycle.

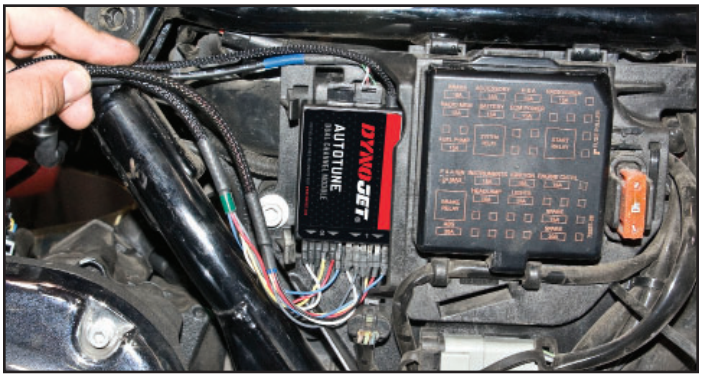
3 Attach the CAN cable to the Autotune module and to the Power Vision.

4 Attach the diagnostic cable to the y-adapter cable.

5 Route the diagnostic cable to your chosen Power Vision location.
Refer to the cable drawing on page 4.



POWER PORT

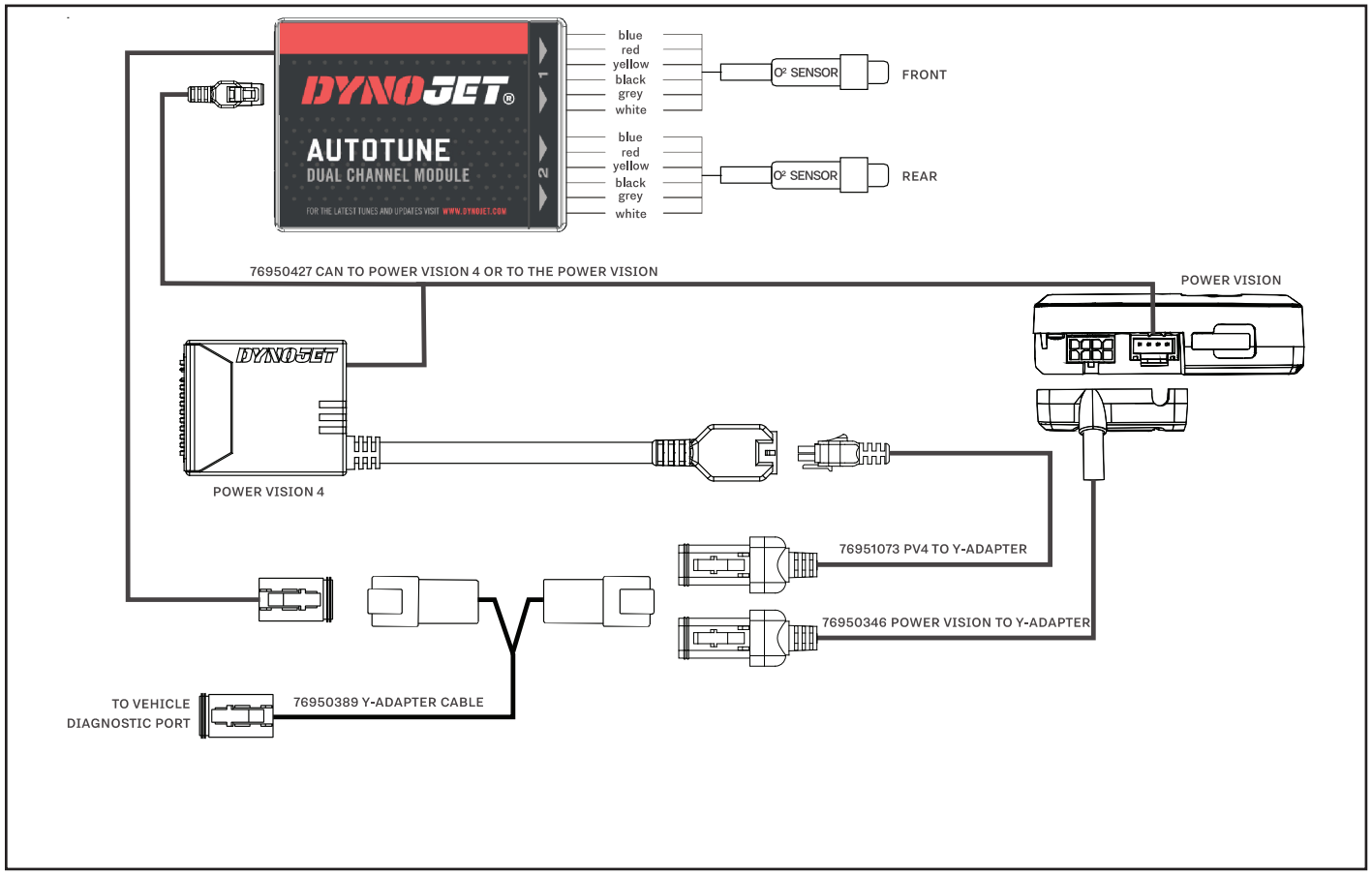


INSTALL THE AUTOTUNE MODULE

CONNECTING TO THE POWER VISION

1 Following the instructions included with your Power Vision, secure the Power Vision to the vehicle using the supplied Velcro or Dynojet mount accessory part #61300105. Make sure the Power Vision will not interfere with the operation and steering of the vehicle.

2 Attach the CAN cable from the Autotune module to the port on the Power Vision. Attach the Power Vision to the diagnostic cable.



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