



advanced FLOW engineering

Instruction Manual

P/N: 77-47012

SCORCHER GT POWER MODULE

Make: **Mazda**

Model: **CX-90**

Year: **2024-2025**

Engine: **L6-3.3L (t)**

Make: **Mazda**

Model: **CX-70**

Year: **2025-2025**

Engine: **L6-3.3L (t)**



THIS IS A HIGH-PERFORMANCE PRODUCT: Do not use this product until you have carefully read the following agreement and installation instruction. This sets forth the terms and conditions for the use of this product. The installation of this product indicates that the BUYER has read and understands this agreement and accepts its terms and conditions.

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Before proceeding with the installation:

- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7185.
- Ensure you have all necessary tools before proceeding. Do not attempt to work on your vehicle when the engine is hot.

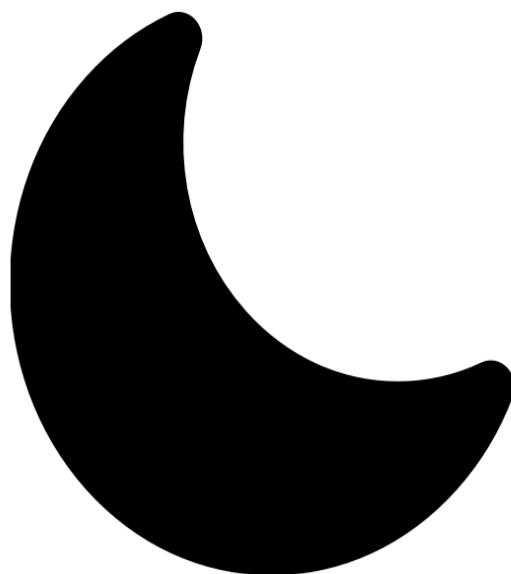
Warranty Information available at <https://afepower.com/contact#warranty>

Emission Disclaimer: This product is not currently CARB exempt and is not available for purchase in California or for use on any vehicle registered with the California Department of Motor Vehicles.



Label	Qty.	Description	Part Number
A	1	Module	R77-47012
B	1	LED Switch	05-70029
C	2	Velcro (2" Inches)	05-01244
D	4	Cable Ties	05-60167





SLEEP MODE

Figure A

Refer to Figure A for Step 1

Step 1: Before installing your aFe POWER module, you will have to place your vehicle's ECU in sleep mode. In order to do this, you will need to do the following:

- If the engine is cold: open the hood, close the doors, lock the car and wait 30 seconds.
- If the engine is warm: open the hood, close the doors, lock the car and wait 20 minutes.
- If the engine is warm and you can't wait 20 minutes: disconnect the battery.



Note: Do NOT open doors or start vehicle while one of the sensors is disconnected. This could create a check engine light

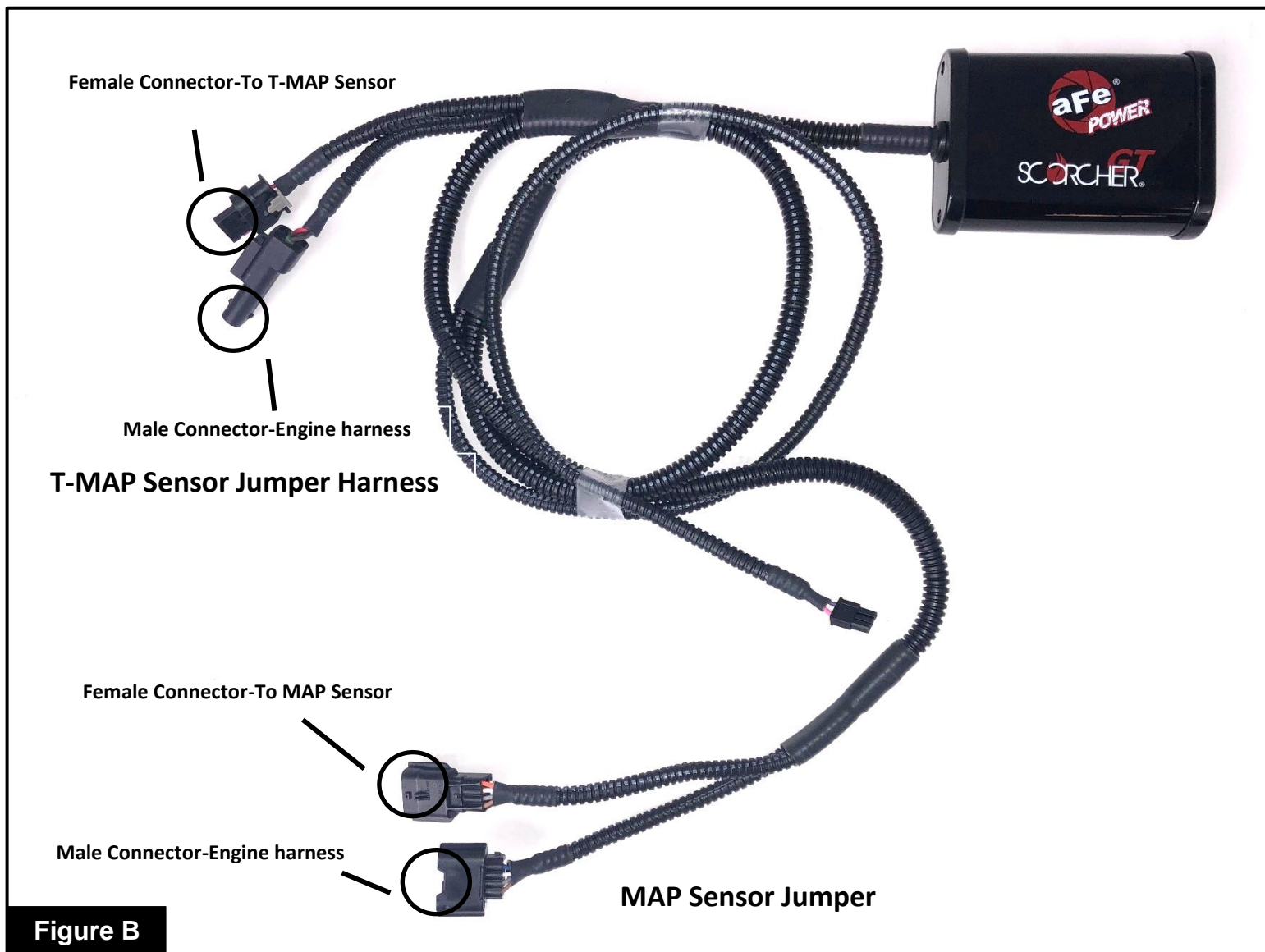


Figure B

Refer to Figure B for Step 2

Step 2: Refer to the diagram to identify the connectors and their corresponding sensors that they plug into.

- The MAP sensor jumper harness is the shorter set of wires. It is labeled MAP.
- The T-MAP sensor jumper harness is the longer set of wires. It is labeled T-MAP.



Refer to Figure C for Steps 3-5

Step 3: Remove the engine cover by lifting up on the corners.

Step 4: Locate the MAP sensor. The MAP sensor is located underneath of the coolant reservoir, on top of the intake manifold.

Step 5: The T-MAP sensor is on the back side of the engine bay, on top of the charge pipe.

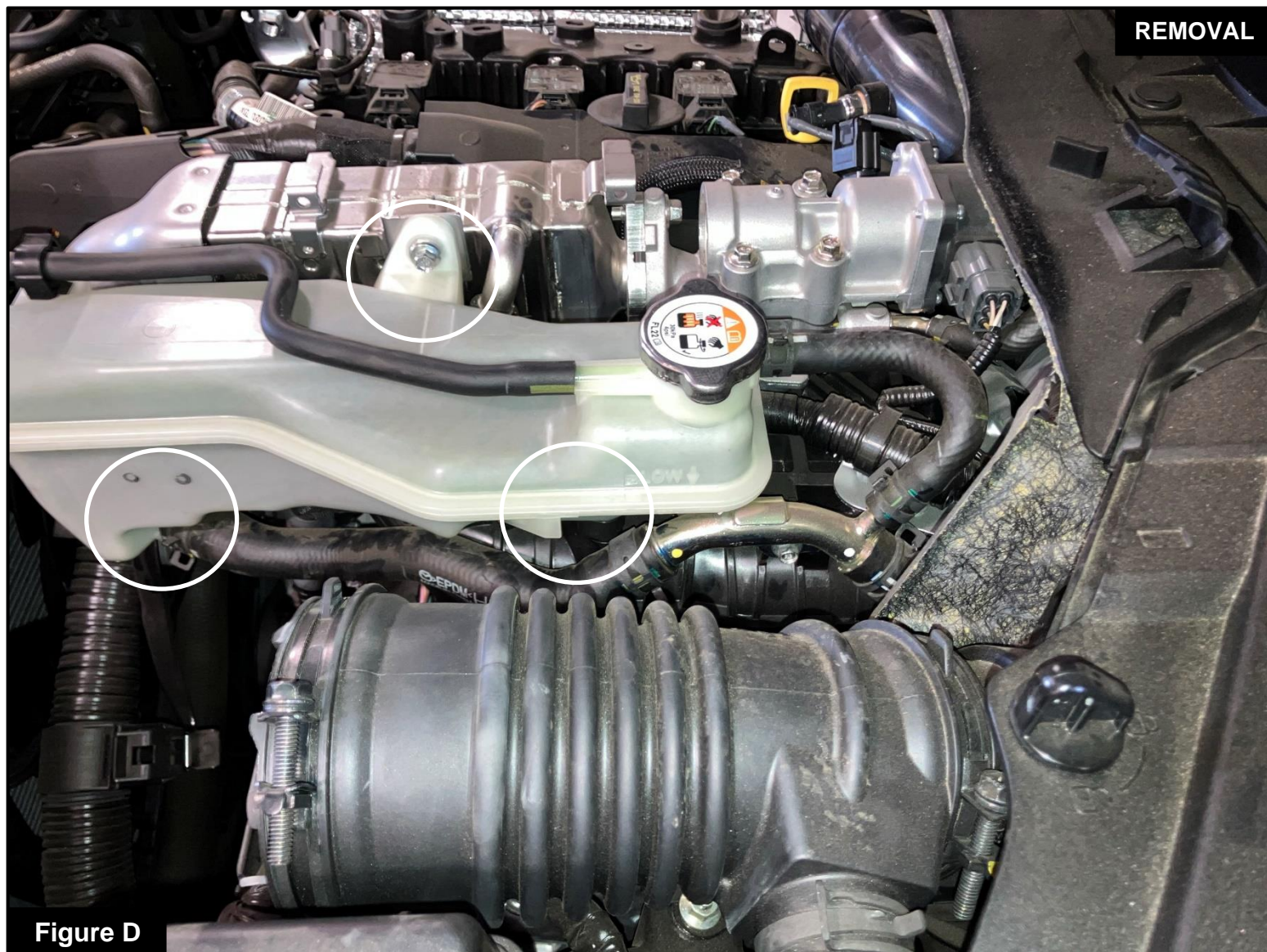


Figure D

Refer to Figure D for Step 6

Step 6: Remove the three 8mm bolts and then move the coolant reservoir to the side to access the MAP sensor.



Refer to Figure E for Step 7

Step 7: Disconnect the MAP sensor by pressing down on the connector and sliding it out of the sensor.

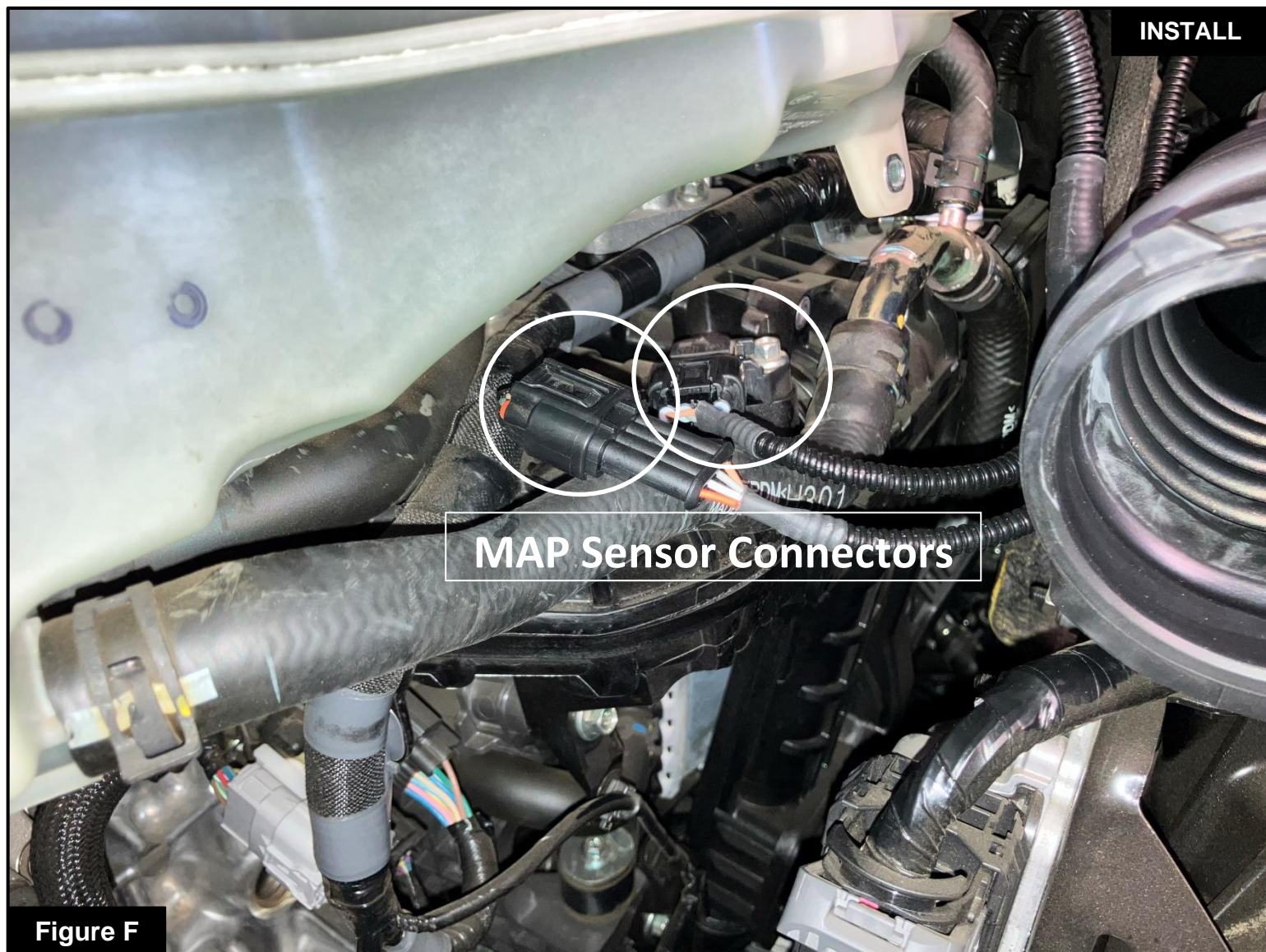


Figure F

Refer to Figure F for Steps 8-11

Step 8: Locate the MAP sensor jumper harness on the aFe POWER harness. It is labeled “MAP”.

Step 9: Plug the female connector of the aFe POWER harness to the MAP sensor, then take the male connector of the aFe POWER harness and connect it to the female connector of the engine harness.

Step 10: Check with the picture to make sure the connectors are fully seated and that the locking tabs are slid back into place.

Step 11: Reinstall the coolant reservoir with the three 8mm bolts.



Make sure that the connections are fully engaged and not reversed. Usually, connectors make a snapping sound when fully engaged.




Figure G

Refer to Figure G for Steps 12-13

Step 12: Locate the T-MAP sensor on the charge pipe.

Step 13: Disconnect the T-MAP sensor by pressing down on the connector and sliding it out of the sensor.



T-MAP Sensor Connectors

Figure H

Refer to Figure H for Steps 14-16

Step 14: Locate the T-MAP sensor jumper harness on the aFe POWER harness. It is labeled “T-MAP”.

Step 15: Plug the female connector of the aFe POWER harness to the T-MAP sensor, then take the male connector of the aFe POWER harness and connect it to the female connector of the engine harness.

Step 16: Check with the picture to make sure the connectors are fully seated and that the locking tabs are slid back into place.



Make sure that the connections are fully engaged and not reversed. Usually, connectors make a snapping sound when fully engaged.



Refer to Figure I for Steps 17-20

Step 17: Select a location to mount the Scorch GT. We recommend that the module be mounted in a place that is dry, away from extreme heat and moving parts.

Step 18: For our installation, we found the best location to be inside of the engine bay cowl that houses the brake master cylinder on the driver side.

Step 19: Route the harness wires and secure them using the included zip ties for a neat installation.

Step 20: Reinstall the engine cover removed in Step 3.

The doors can now be opened to install the LED Switch.



Figure J

Refer to Figure J for Steps 21-23

Step 21: Select the desired location for the LED switch. Route the cable on the back of the switch to exit towards the top or the bottom of the switch.

Step 22: Use the provided double sided tape to secure the LED switch in the desired location.

Step 23: Carefully route the switch cable behind the steering wheel cover or cabin trim cover. For the cleanest install, partially remove the cabin trim cover and run the LED switch wire between the trim panels.



Figure K

Refer to Figure K for Steps 24-25

Step 24: Locate the engine bay wiring access slot below the driver side kick panel.

Step 25: Route the switch cable through the firewall and into the engine bay using this slot.



Refer to Figure L for Steps 26-27

Step 26: Plug the end of the LED switch cable to the aFe POWER harness inside the engine compartment.

Step 27: Secure all wires away from any extreme heat and moving parts with the provided zip ties. Make sure all connections are secured and fully engaged.

The installation of the module itself is now complete. Keep reading the installation instructions to learn how to use all of its features.



Figure M

Refer to Figure M (LED Switch)

When turning on the vehicle, each LED will flash, and it will stop at its last setting. The LED on the switch represents the different levels of power.

- Green LED: Stock
- Yellow LED: Sport
- Orange LED: Sport+
- Red LED: Race

Use the grey button to select the desired setting. Power adjustments can be done at any time while the unit is on.



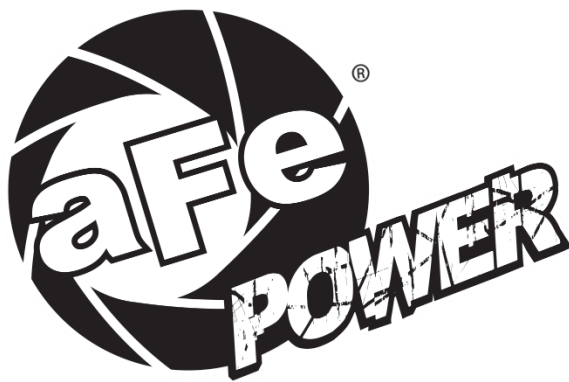
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