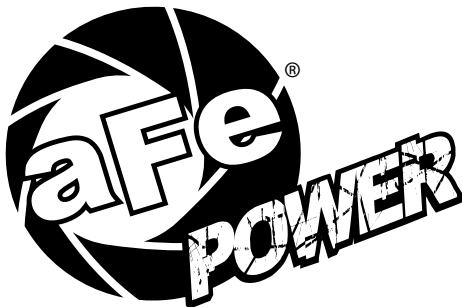




advanced FLOW engineering

Instruction Manual P/N: 77-86325

Make: **BMW** Model: **M5 (F90)** Year: **2018-2020** Engine: **V8-4.4L Twin Turbo (S63)**



- 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.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A	1	Module	R77-86325
B	1	LED Switch	05-70029
C	1	Bypass Plug	05-70017
D	1	Harness	AFE-10-214
E	2	Velcro (2" Inches)	05-01244
F	5	Cable Ties	05-60167
G	2	Double Sided Tape	07-90001

Emissions 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.





SLEEP MODE

Figure A

Refer to Figure A for Step 1.

Step 1: Before installing your aFe POWER module, you must place your vehicle's ECU in sleep mode. In order to place your vehicles ECU in sleep mode 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 the doors or start the vehicle while any of the sensors are disconnected. This could cause a check engine light.



Refer to Figure B for Step 2.

Step 2: Locate the TMAP sensors, one TMAP sensor is on the driver side intercooler. The other TMAP sensor is on the passenger side intercooler.

Note: The removal of the air intake system can help accessing the sensors, but it is not required.



Figure C

Refer to Figures C for Steps 3-4.

Step 3: Locate and disconnect the passenger side TMAP sensor connector. First slide back the gray locking tab, then press down on the tab while sliding the connector out of the sensor.

Step 4: Locate the passenger side TMAP sensor jumper harness on the aFe Power harness. This is the section of harness labeled “TMAP passenger side”. Plug the female connector of the aFe Power harness into the TMAP sensor, then take the male connector of the aFe Power harness and connect to the female connector of the engine harness.

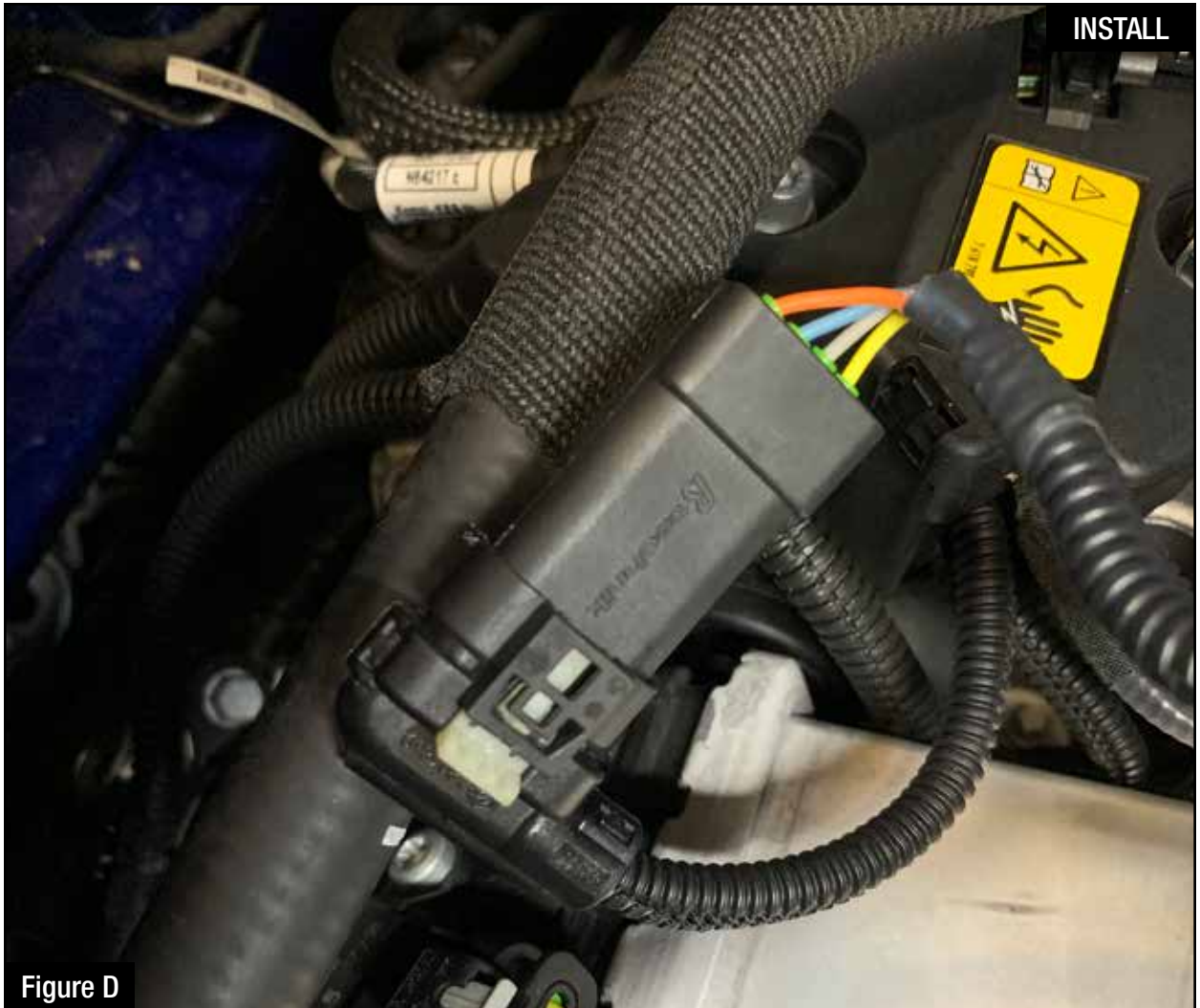


Figure D

Refer to Figure D for Step 5.

Step 5: Check with the pictures to make sure the connectors are correctly connected.



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

**Figure E****Refer to Figure E for Steps 6-7.**

Step 6: Locate and disconnect the driver side TMAP sensor connector. First slide back the gray locking tab, then press down on the tab while sliding the connector out of the sensor.

Step 7: Locate the driver side TMAP sensor jumper harness on the aFe Power harness. This is the section of harness labeled "TMAP driver side". Plug the female connector of the aFe Power harness into the TMAP sensor, then take the male connector of the aFe Power harness and connect to the female connector of the engine harness.



Refer to Figure F for Step 8.

Step 8: Check with the pictures to make sure the connectors are correctly connected.



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



Figure G

Refer to Figure G for Steps 9-10.

Step 9: Secure the black wire of the aFe POWER harness to a suitable ground location, such as the one pictured.

Step 10: Using a T50 bit, remove the nut on the positive terminal. Place the red wire of the aFe POWER harness on the terminal and then reinstall the T50 Nut.

**Figure H****Refer to Figure H for Step 11.**

Step 11: Remove the plastic cowl cover on the driver side, twist the lock and then pull the cover out of the vehicle.



Figure 1

Refer to Figure 1 for Steps 12-13.

- Step 12: Secure the SCORCHER BLUE near the brake master cylinder, or any other desired location using the Velcro provided. The module must be located within reach of the LED switch harness if being used.
- Step 13: Connect the SCORCHER BLUE module to the harness. Make sure the connector is fully engaged.



Note: The doors of the vehicle can now be opened to proceed with the installation of the switch.



Figure J

Refer to Figure J for Steps 14-15.

Note: The installation of the LED switch in the cabin is optional.

Step 14: Select the desired location of the LED switch. Route the cable on the back of the switch to exit toward the top or bottom.

Step 15: Use the provided double sided tape to secure the LED switch in the desired location.



Refer to Figure K for Steps 16-18.

Step 16: Twist the two plastic tabs securing the foot trim panel, and then pull outward gently on the front of the panel to lower the panel.

Step 17: Carefully route the switch cable behind steering wheel cover or cabin trim cover.

Step 18: Route the switch cable through firewall and into the engine bay through the grommet.

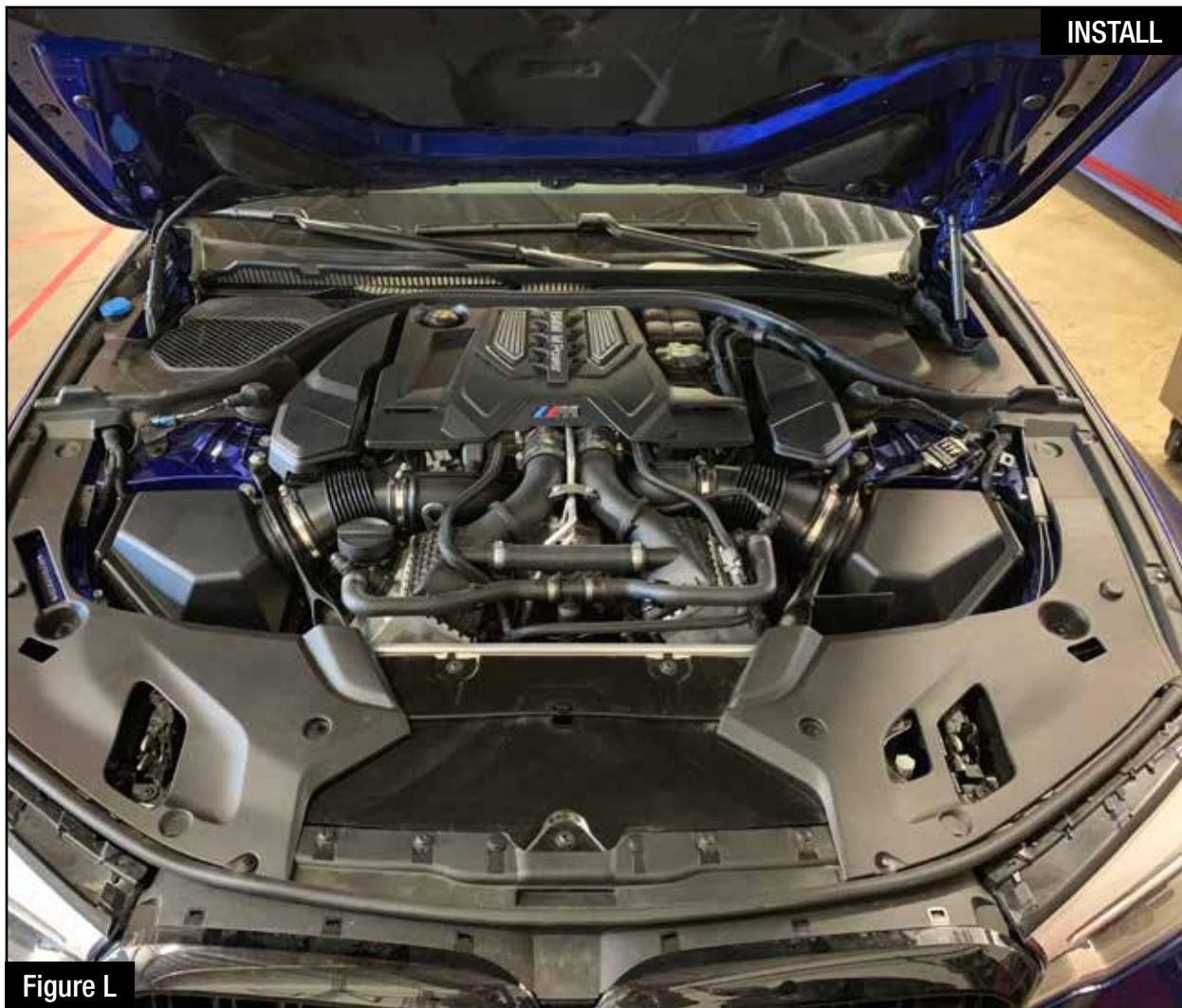


Figure L

Refer to Figure L for Steps 19-21.

Step 19: Plug the end of the switch cable to the harness inside the engine compartment.

Step 20: Secure the wires away from any extreme heat and moving parts with the provided ties. Make sure all connections are secured and fully engaged.

Step 21: Reinstall the cowl cover.



Note: The installation of the module itself is now completed. Keep reading the install instruction to learn how to use all its features.



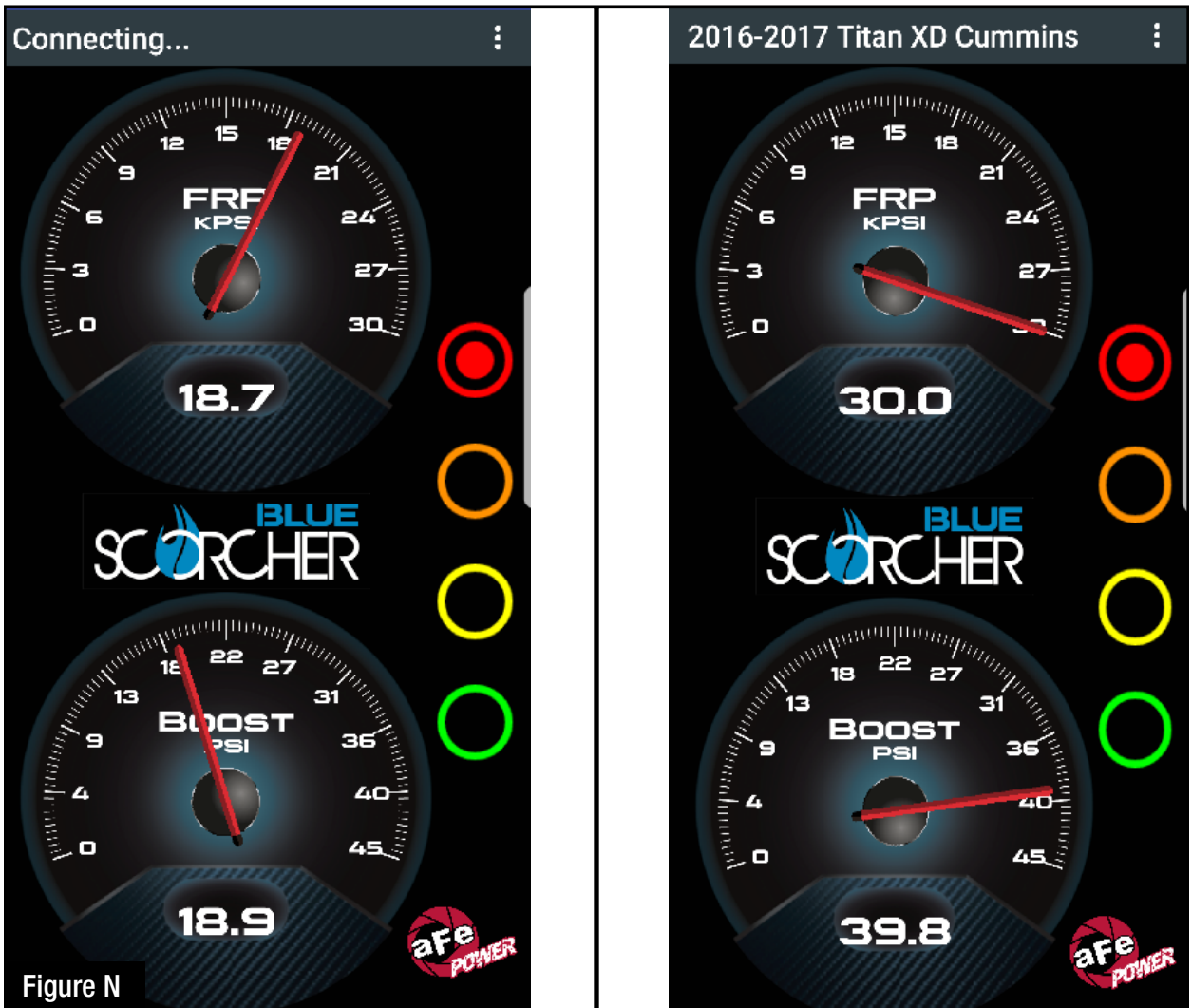
Figure M

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 level 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 moment while the unit is on. The LED switch can be used at the same time as the Bluetooth app.



Refer to Figure N* (app connection - iOS).

For iOS device, download the app from the apps store. Make sure the Bluetooth is activated on your device. Open the app and it will automatically connect through Bluetooth to the SCORCHER BLUE module when the vehicle and module are on. When connected, the vehicle description will appear on top of the screen and the gauges will show current data.

The blue LED light on the module will become solid once connected to a Bluetooth device. Simply tap on the green, yellow, orange and red button to switch between the modes.

**Screen shots shown here are for example only. Actual screen display will vary depending on your vehicle.*

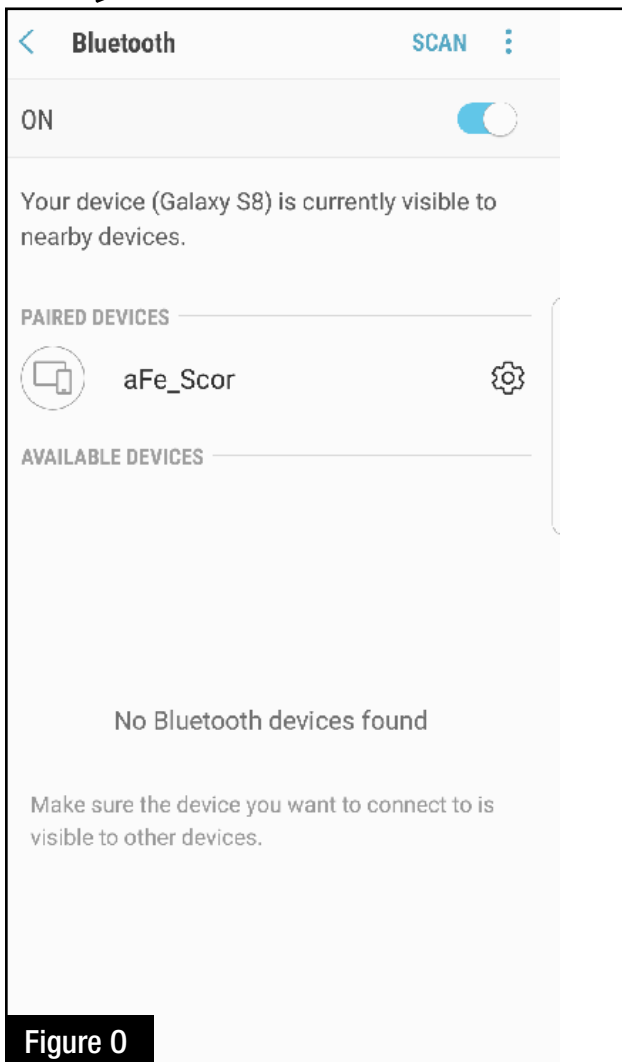


Figure 0



Refer to Figure 0* (app connection- Android).

For Android device, download the app from the play store. For the first connection, go to the Bluetooth settings of your device, turn on Bluetooth and scan for available devices. Select “aFe SCOR” and pair with device. The vehicle needs to be on and the module connected. Once shown as paired device, open the app on your device and it will automatically connect to the vehicle. The vehicle description will appear on top of the screen and the gauges will show current data.

The blue LED light on the module will become solid once connected to a Bluetooth device. Simply tap on the green, yellow, orange and red button to switch between the modes.

**Screen shots shown here are for example only. Actual screen display will vary depending on your vehicle.*

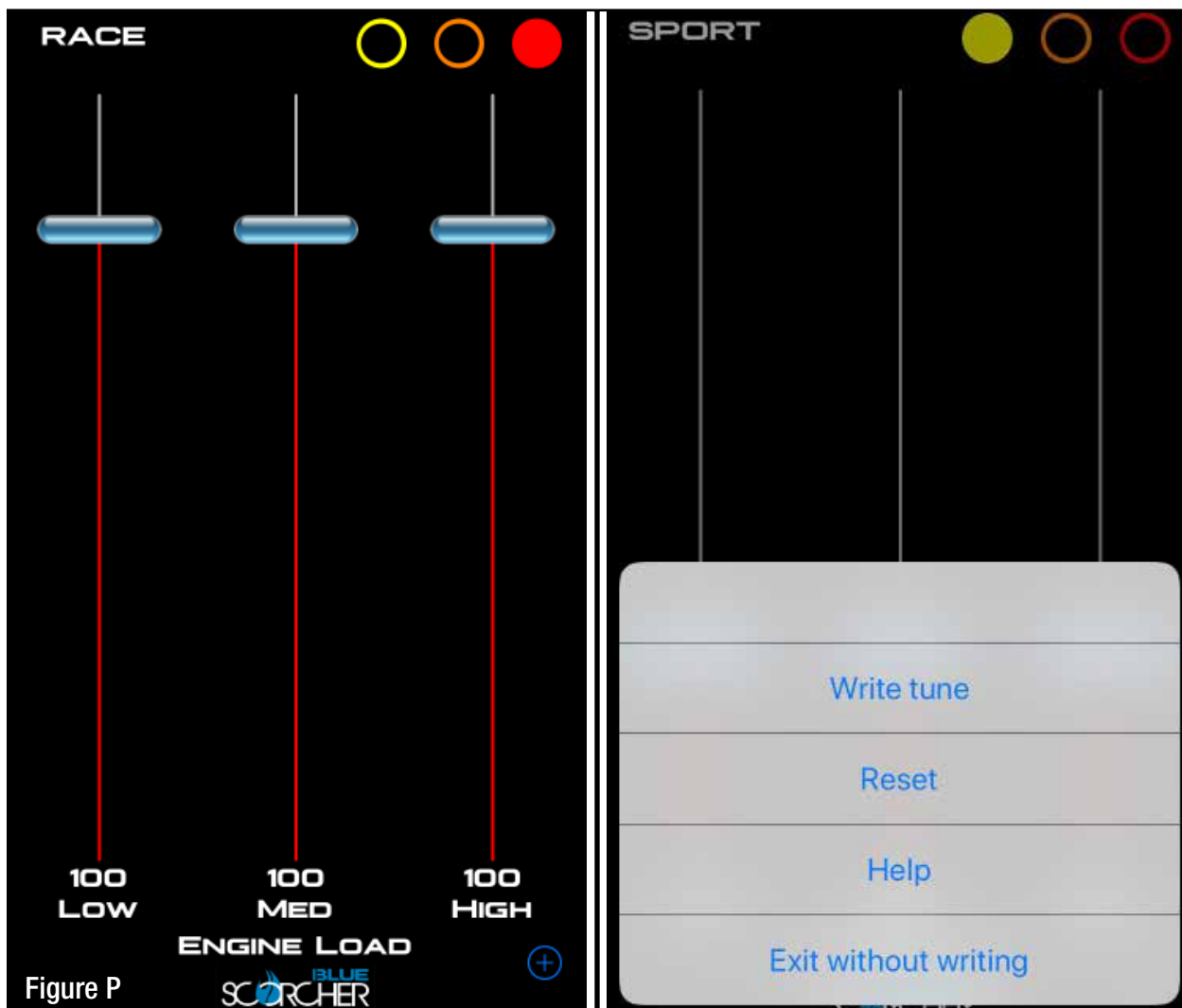


Figure P

Refer to Figure P (Custom Tuning).

The aFe POWER SCORCHER BLUE app offers the capability to custom tune the different modes. Go to the menu on the top right corner and select “Tune”. Select the mode you would like to custom tune and adjust the sliders at low, medium and high load. You can either write the tune or exit without writing.



Disclaimer: Custom tuning should only be performed with the ignition in the “run” position and engine off. Configuring the tunes outside the default values may cause drivability issues and /or check engine lights to occur.



Refer to Figure Q (Vehicle Performance Screen).

On the gauges screen, swipe to the left to get to the vehicle performance screen. When the vehicle is not moving, select the test you are wanting to attempt (0-60mph, ¼ mile or mile). The app will automatically detect the movement of the vehicle and the timer will start. Once you reach the speed or distance, the timer will stop. If you select a new mode it will reset and you can start again. If you need to stop the test at any point, hit the cancel button and leave the screen.



Use the aFe POWER SCORCHER BLUE app responsibly. Always drive safely and obey traffic laws. aFe POWER is not responsible for any accidents, injuries, or property damage that may occur during its use.



Figure R

Refer to Figure R (Bypass Plug).

A bypass plug is included in the kit. The plug can be connected to the harness instead of the module. Once the bypass plug is connected the vehicle will run in factory settings. Make sure the plug is fully engaged when connected to the harness. Thank you for choosing aFe POWER!



The vehicle needs to be in sleep mode when the module gets disconnected and the bypass plug connected. Wait for the blue LED on the module to stop flashing to make sure the vehicle is in sleep mode.



Sprint Booster V3



P/N: 77-16304

aFe POWER Strapback Hat



P/N: 40-10043

aFe POWER Lic. Plate Frame



P/N: 40-10097

aFe POWER Carbon Look
Urocal Badge



P/N: 40-10207

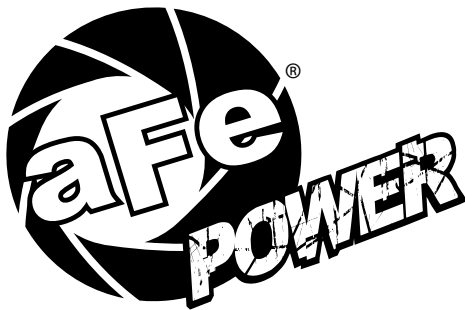
Warranty

General Terms:

- aFe warrants their products to be free from manufacturer's defects due to workmanship and material.
- This warranty applies only to the original purchaser of the product and is non-transferrable.
- Proof of purchase of the aFe product is required for all warranty claims.
- Warranty is valid provided aFe instructions for installation and/or cleaning were properly followed.
- Proper maintenance with regular inspections of product is required to insure warranty coverage.
- Damage due to improper installation, abuse, unauthorized repair or alteration is not warranted.
- Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe product is not covered under this warranty.
- All warranty is limited to the repair and/or replacement of the aFe part. To request Return Goods Authorization ("RGA"), email RGA@afepower.com or call (951)493-7100. Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe will either repair or replace the defective product within a reasonable time, not to exceed thirty days.

Product Category	P/N Prefix	Warranty duration
Direct OE Replacement Filters	10, 11, 30, 31, 71, 73	Life of the vehicle
Racing Filters	18	1 year
Universal	21, 23, 24, 72, TF	2 years
Air Intake Systems	50, 51, 53, 54, 55, 75, TR, TA, TL, TM	2 years
Exhaust Systems	49	2 years
Intercoolers & Intercooler Tubes	46-2	2 years
Intake Manifolds	46-1	2 years
Differential Cover	46-7	Life of the vehicle
Exhaust Manifolds	46	2 years
Throttle Body Spacers	46-3	2 years
Fluid Filters	44	90 days
Pre-Filters	28	2 years
Heavy Duty OE Replacement	70	2 years
PowerSports OE Replacement	81, 87	2 years
PowerSports Intake Systems	85	2 years
Tuners	77	1 year

No other warranty expressed or implied applies nor is any person or advanced FLOW engineering authorized to assume any other warranty. Some States do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.



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