



advanced FLOW engineering

Instruction Manual P/N: 77-43026

Make: **Ford** Model: **Ranger (T6)** Year: **2011-2019** Engine: **L5-3.2L (td)**



- 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 951-493-7100.
- 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 | R77-43026 |
| B | 1 | LED Switch | 05-70029 |
| C | 2 | Velcro (2 Inches) | 05-01244 |
| D | 4 | Cable Ties | 05-60167 |

Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations.





SLEEP MODE

Figure A

Refer to Figure A for Step 1.

Step 1: Before installing the 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 batter



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



Figure B

Refer to Figure B for Steps 2-3.

Step 2: Remove the engine cover to gain access to the Fuel pressure sensor.

Step 3: Locate the MAP and Fuel Pressure Sensors. The MAP sensor is on top of the charge tube to the right of the engine. The fuel pressure sensor is at the end of the fuel rail, near the firewall.



Refer to Figures C for Steps 4-5.

Step 4: Locate and disconnect the MAP sensor.

Step 5: Locate the MAP sensor jumper harness on the aFe module. This is the longer harness with a 3 wire connector. Plug the male connector of the module to the stock MAP sensor, then take the female connector of the module and connect to the male connector of the engine harness.

Note: Make sure connections are fully engaged. Usually, connectors make a snapping sound when fully engaged.



Figure D

Refer to Figure D for Steps 6-7.

Step 6: Locate and disconnect the fuel pressure sensor.

Step 7: Locate the fuel pressure sensor jumper harness on the aFe module. This is the shorter harness with a 4 wire connector. Plug the male connector of the module to the stock fuel pressure sensor, then the female connector of the module male connector of the engine harness.

Note: This connector can be hard to remove and install so be careful not to damage it.



Figure E

Refer to Figure E for Steps 8-9.

Step 8: Carefully route the connector end of switch cable behind the dash, going through the gap around the steering wheel is the easiest option.

Step 9: Mount the Switch on an open, flat surface. Make sure it is positioned so that the cable reaches the firewall.



Figure F

Refer to Figure F for Step 10.

Step 10: Using the pictured grommet if available, route the switch cable through firewall and into the engine bay. If this grommet is unavailable you will have to use a different grommet. Plug the end of the cable to the module harness with the smallest 3 wire connector.

**Figure G****Refer to Figure G for Steps 11-12.**

Step 11: Mount the module in a safe location, such as the flat surface under the brake master cylinder, using the supplied Velcro strip. Then, secure the wires and module away from any extreme heat and moving parts, with the provided ties. Make sure all connections are secured and fully engaged.

Step 12: Reinstall the engine cover.



Figure H

Refer to Figure H for Step 13.

Step 13: When turning on the vehicle, the switch will go through the light. 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.

Thank you for choosing aFe POWER!



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aFe Diesel Mens T-Shirt



P/N: 40-30221 (M)
40-30222 (L)
40-30223 (XL)

aFe POWER Jacket



P/N: 40-32016 (M)
40-32017 (L)
40-32018 (XL)

aFe Premium Jacket



P/N: 40-32032 (M)
40-32033 (L)
40-32034 (XL)

aFe Turbo Diesel T-Shirt



P/N: 40-30412-B (M)
40-30413-B (L)
40-30414-B (XL)

aFe POWER Hat



P/N: 40-10115 (7-1/4 - 7-5/8)
40-10114 (6-7/8 - 7-1/4)

aFe POWER Beanie



P/N: 40-10116

aFe POWER Gloves



P/N: 40-10148 (M)
40-10149 (L)
40-10194 (XL)

aFe Diesel Snapback Hat



P/N: 40-10169

aFe POWER Knife



P/N: 40-10092

aFe POWER Lanyard



P/N: 40-10132

aFe POWER Coozie



P/N: 40-10121

aFe POWER Drawstring



P/N: 40-10122

To purchase any of the items above, view airflow charts, dyno graphs, photos, and video please go to aFepower.com.

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, 24, 72, TF | 2 years |
| Air Intake Systems | 50, 51, 54, 55, 75, TR, TA, TL | 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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