



AEM Performance Electronics
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AEM Fuel Pulse Damper Installation Manual

25-4002

Direct Mount -6 ORB Standard Range (40-70 PSI)

25-4004

Direct Mount -6 ORB Extended Range (40-100 PSI)



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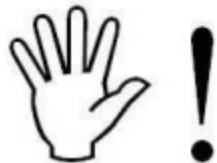
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Legal Restrictions



STOP!

THIS PRODUCT HAS LEGAL RESTRICTIONS. **READ THIS BEFORE INSTALLING/USING!**

WARNING! THIS IS A RACE ONLY PRODUCT MANUFACTURED AND SOLD FOR INSTALLATION ON VEHICLES DESIGNED TO BE USED SOLELY FOR COMPETITION PURPOSES. ONCE THIS PART IS INSTALLED, THE VEHICLE MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR USE, ON A PUBLIC ROAD OR HIGHWAY. IF YOU INSTALL THIS PART ON YOUR VEHICLE AND USE THE VEHICLE ON A PUBLIC ROAD OR HIGHWAY, YOU WILL VIOLATE THE CLEAN AIR ACT AND MAY BE SUBJECT TO PERSONAL CIVIL OR CRIMINAL LIABILITY, INCLUDING FINES OF UP TO \$4,819 PER DAY. IT IS THE RESPONSIBILITY OF THE INSTALLER AND/OR USER OF THIS PRODUCT TO ENSURE THAT IT IS USED IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IF THIS PRODUCT WAS PURCHASED IN ERROR, DO NOT INSTALL AND/OR USE IT. THE PURCHASER MUST ARRANGE TO RETURN THE PRODUCT FOR A FULL REFUND. THIS POLICY ONLY APPLIES TO INSTALLERS AND/OR USERS WHO ARE LOCATED IN THE UNITED STATES; HOWEVER CUSTOMERS WHO RESIDE IN OTHER COUNTRIES SHOULD ACT IN ACCORDANCE WITH THEIR LOCAL LAWS AND REGULATIONS.

Warning

Improper installation and/or adjustment of this product can result in major engine/vehicle damage. For technical assistance visit our dealer locator to find a professional installer/tuner near you.

Note:

- **AEM holds no responsibility for any engine damage or personal injury that results from the misuse of this product, including but not limited to injury or death.**
- **THESE PRODUCTS ARE NOT TO BE USED ON THE LOW-PRESSURE SIDE OF THE FUEL SYSTEM.**

Introduction

Read and understand these instructions BEFORE attempting to install this product. Do not smoke while working on the fuel system. Keep open flames or sparks away from your work area. Be sure to relieve fuel pressure while engine is off.

Installation

Kit Contents:

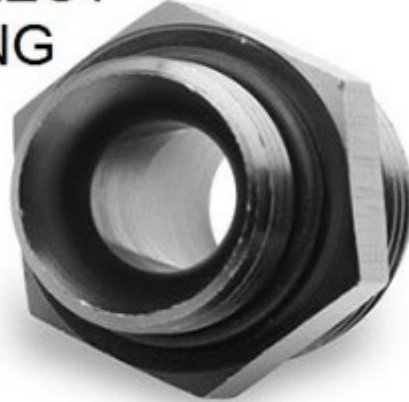
- **Direct Mount Dampers (25-4002- 25-4004)**
 - 1 ft of 5/32 Vacuum Hose
 - 5/32 Nylon Wye



INCORRECT
FITTING



CORRECT
FITTING



Note on Vacuum Referencing:

**** Your base fuel pressure for the model being purchased must lie within the pressure ranges listed above per model. ****

- If total fuel pressure (base + boost/vacuum) is within the pressure range for the model being purchased, then vacuum referencing the damper is optional. If the vacuum port is not used, be sure that after installation it is not pointing to hot components such as the engine or exhaust system. If it is, it is **HIGHLY** recommended that the cap be clocked so that it points away from these components.

- If total fuel pressure (base + boost/vacuum) is outside of the pressure range for the model being purchased, then vacuum referencing is required.

General notes:

- Fuel pulse dampers are mainly used to dampen the local pressure drops/spikes associated with injectors opening and closing. For this reason, the closer you can mount the damper to the source of these pulsations (i.e. Fuel Rail), the better.

- The damper cap can be clocked to an alternate location, if necessary. Pay close attention to the diaphragm and make sure that it is seated properly before reassembling. **Diaphragm damage from reassembly error voids the warranty.** Torque screws to 40-45 in./lbs. in an alternating pattern.

- Lubricate all O-rings before assembly ideally with an O-ring lubricant.



Warranty

AEM Performance Electronics warrants to the consumer that all AEM Electronics products will be free from defects in material and workmanship for a period of twelve months from the date of the original purchase. Products that fail within this 12-month warranty period will be repaired or replaced when determined by us that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of the AEM Electronics part. This warranty applies only to the original purchaser of the product and is non-transferable. All implied warranties shall be limited in duration to the said 12-month warranty period. Improper use or installation, accident, abuse, unauthorized repairs or alterations performed by the user on any AEM Electronics products voids this warranty.

In no event shall this warranty exceed the original purchase price of the AEM Electronics part nor shall AEM Electronics be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product.

AEM Electronics disclaims any liability for consequential damages due to breach of any written or implied warranty on all of its products.

Warranty returns will only be accepted by AEM Electronics when accompanied by a valid Return Merchandise Authorization (RMA) number and a dated proof of purchase. The product must be received by AEM Electronics within 30 days of the date the RMA is issued. Warranty claims to AEM Electronics must be shipped to us prepaid (we recommend a shipping service with package tracking capability). Once your package is received by our warranty and repairs department you will be notified and provided with updates.

PROCEDURES FOR ISSUANCE OF A RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER

Please note that before AEM Electronics can issue an RMA for any product, it is first necessary for the installer or enduser to contact our technical support team to discuss the problem. Most issues can be resolved over the phone. Under no circumstances should a system be returned, or an RMA requested before our support team is contacted. This will ensure that if an RMA is needed that our team is able to track your product through the warranty process.

You can reach our Tech Support Team for support on all AEM Electronics performance products by phone at 1-800-423-0046. To contact us by email for engine management systems, email us at emstech@aemelectronics.com. For all other products, email us at gen.tech@aemelectronics.com.

AEM Electronics will not be responsible for products that are installed incorrectly, installed in a non-approved application, misused, or tampered with. In the case of AEM Electronics Fuel Pumps, incorrect polarity (+&- wires crossed) will not be warranted. Proper fuel filtration before and after the fuel pump is essential to fuel pump life. Any pump returned with contamination will not be warranted.

PRODUCTS OUTSIDE OF WARRANTY PERIOD

Any AEM Electronics product, excluding discontinued products, can be returned for repair if it is out of the warranty period. There is a minimum charge of \$50.00 for inspection and diagnosis of AEM Electronics parts. Parts used in the repair of AEM Electronics components will be extra. AEM Electronics will provide an estimate of repairs and must receive written or electronic authorization from you before repairs are made to a product.