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Tachometer Filter Model TF-01

If your tachometer does not give a steady reading, it may be of the trigger signal having electrical noise or excessive amplitude that upsets the tachometer.

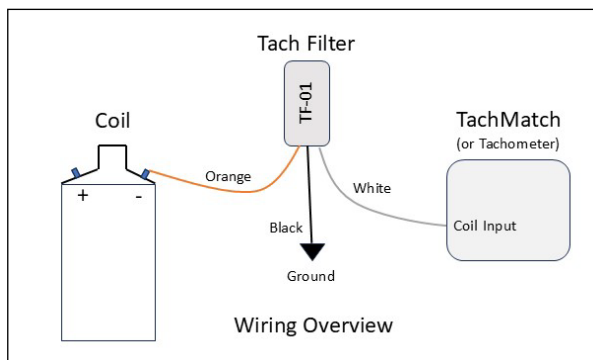
This filter can be used to electrically clean up the signal from ignition systems. It can be used with points-type ignitions, single-fire Pertronix ignitions, and HEI ignitions. It can be set to three different levels of filtering depending on the needs of the installation.

Filters are not generally necessary for digital signals such as ECUs and MSD tachometer output signals.



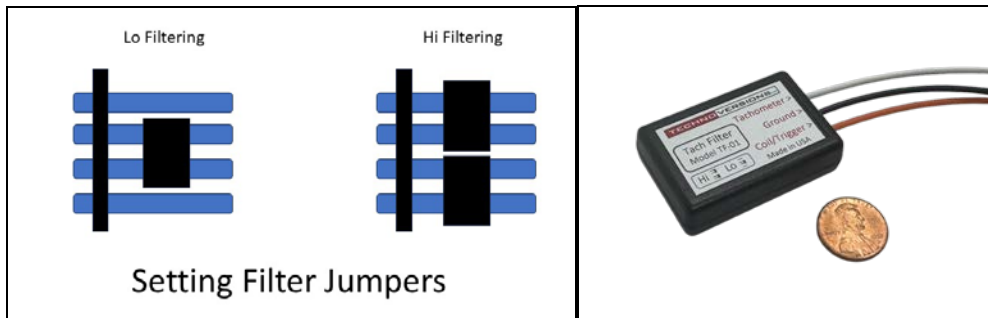
The filter should be installed away from engine heat and moisture - under the dash is a good position. It can be secured with wire-ties to other wiring, or mounted via a Velcro square (not included).

The TechnoVersions TF-01 is wired between the trigger signal (typically the (-) terminal of the coil), and the Coil input terminal of a TachMatch or directly to your tachometer. Connect the orange wire to your coil, the black wire to ground, and the white wire to the tachometer or TachMatch coil input. If you reverse the white and orange wires, it will not work properly.



There are three levels of signal conditioning – none (series resistance only), low filtering and high filtering. The Tach Filter is shipped with signal conditioning set to low filtering. If your tachometer does not stabilize on the low setting, you can change it to high filtering which eliminates additional noise from the signal. Some tachometers may stop operating properly when in high-filter mode.

Changing filtering strength requires setting jumpers in the tach filter module. Remove the screw from the back of the enclosure to expose the printed circuit board. On the top of the circuit board, you will find a 4-pin header and two jumpers. This is how the jumpers are set:



The filter is shipped in low filtering mode. This mode only requires one jumper, so the “spare” jumper is installed on one end where it only touches one post. Both are necessary for switching to high filtering mode.

The filter can also be used in a purely resistive mode. This can be used if there is no response from your tachometer in low-filter mode. To set this mode, leave the jumpers in low filter mode, and disconnect the ground wire. This provides 5.1 kOhms of series resistance which can reduce the amplitude of the signal to the tachometer.

Tachometer Filter Specifications	
TechnoVersions Model number	Model TF-01
Enclosure Size	1.90"x1.25"x0.50" (48.3x31.8x12.7 mm)
Product filtering	Approx -3db at 300 Hz (in low setting) If ground disconnected in low filter mode, purely resistive load of 5.1 kOhms
Wire Leads	18 AWG stranded, approximately 6" (152mm) long,
Connections	White to tachometer Black to ground Orange to coil (trigger)
Shipping Dimensions	USPS Small Flat Rate Box

Limited Warranty: TechnoVersions LLC provides a limited warranty. If a unit should fail within 180 days from time of shipment from TechnoVersions due to material or manufacturing defects, it can be returned for repair or replacement. Products subjected to abuse (as determined by TechnoVersions) are excluded from this limited warranty. TechnoVersions LLC makes no other claims as to suitability and excludes any indirect or consequential damages.

Remedy is limited to product replacement or repair. Cost of shipping the product to TechnoVersions is at the customer's expense, but the replacement/repaired product will be shipped to customer at TechnoVersions expense, except for shipments out of the USA, in which case TechnoVersions shipping cost is limited to the cost of domestic shipments. Risk of loss and shipping damage become the responsibility of the customer once delivered to a common carrier by TechnoVersions LLC.