BMW 2002/E21 TACHOMETER ADAPTER
TECHNICAL INSTRUCTIONS AND INFORMATION

Thank you for purchasing this Tachometer Adapter for the BMW 2002 and E21 320i. If you have any questions or concerns please don't hesitate to email. For a complete review of our Terms and Policies please visit https://adamsautosport.com/terms-and-policies/

Please note that this installation requires the installer to be fairly competent with automotive electronics. Professional installation by someone well versed in wiring classic cars is highly recommended. This type of product is usually understood as an "unfinished" product until it is installed in a car. If it is installed improperly, or if the car is not in tip top shape, the product may not operate properly. Any damage to the car that may occur should never be attributed to this product. The installer/user bears all responsibility.

For a digital copy of these instructions please email andrew@adamsautosport.com

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Tachometer Adapter Usage

When performing a motor-swap on the 2002, the factory Tachometer will no longer function accurately. This tach-adapter takes the new incoming signal and converts it to one that the tachometer can read. This adapter works with 4-cylinder and 6-cylinder swaps. 8-cylinder compatibility is available by special order.

This adapter will work on all BMW 2002 factory-fitted Tachometers (early, mid, late).

Wiring

The tach converter uses 5 wires to operate:

RED: + 12v power input, usually from key switch or the tachometer itself.
BLACK: ground, chassis reference
GREEN: tacho input signal from the LOW TENSION side of the coil/distributor
BLUE: output signal converter, goes to the tachometer of the car
GRAY: shift light output, *optional*, (activates an external relay for a shift light).

Signal Change (6-cylinder or 4-cylinder?)

It is possible to change the usage of the converter from 6:4 to 4:4
1-make sure power is OFF to the unit
2-short pin # 1 and 3 like on picture #1
3-apply power to the unit and wait 6 seconds for the LED to turn on
4-remove short pins and observes the amount of flashed on the LED

6 flashes = conversion from 6 to 4
4 flashes = conversion from 4 to 4

At this point the programming is saved into the memory of the processor.
Default adjustment is 6:4

Once it has blinked 4 times remove the short and it is complete. The adapter has now switched to the new mode. There is no need to power-cycle the unit. (Although if you do so, it won't change anything.)

Optional Shift Light

Default Setting: 6,000rpm

With power applied to the unit (while engine is NOT running), it is possible to visualize the tach shift point directly on the tachometer.

To adjust simply short pin #1 and #3 as shown in the photo below and observe the shift point on the tachometer itself. Turn the potentiometer on the unit to change the shift point.