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# **Installation Instructions**

## **#64407 Waste Gate Controller**

### **2004.5-2007 Dodge**

### **Cummins 5.9L 600/610 ft/lb Diesel**

1<sup>st</sup> Edition April 2007

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The Striker Waste Gate Controller installs in minutes. It takes control of your vehicle's waste-gate and modifies its operation to add power and improve drivability. Make sure the key is off before any connections are made.

## **Parts List:**

- 1- Striker Waste-gate Module
- 1- Wire Harness
- 10- 7" tie wraps
- 1- Instruction Sheet
- 1- Multi Decal Sheet
- 2 inches of Velcro
- Posi-tap Wire taps (see back page for installation instructions)

## **Tool List:**

- Long-nose pliers
- Phillips and flat head screwdrivers
- Drill and Drill bits
- 3/8 Ratchet and Metric sockets



## **Engine Compartment Installation:**

The Striker Waste Gate Controller is shipped with a harness to match your vehicles configuration. Harness alteration is not needed. If difficulties during installation are experienced please contact us via phone at 800-423-9696 or email to [tech@painlessperformance.com](mailto:tech@painlessperformance.com). One connection will be made in the engine compartment. Route all wires and connectors away from potential hot spots on the engine. Securely attach the wires using the supplied tie wraps.

## **WASTE GATE SOLENOID:**

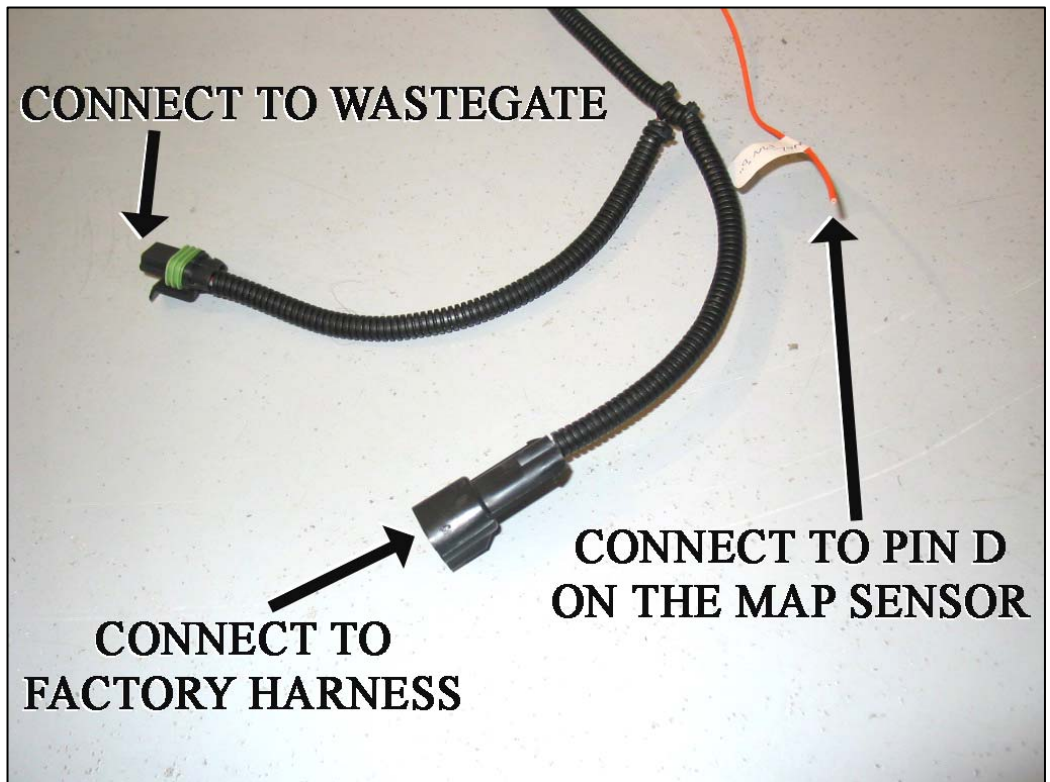
Locate the waste gate solenoid. It is easily accessed from underneath the truck. While laying on your back on the passenger side of the truck look up. Under the turbo-charger just in front of it is where you will find the waste gate solenoid.

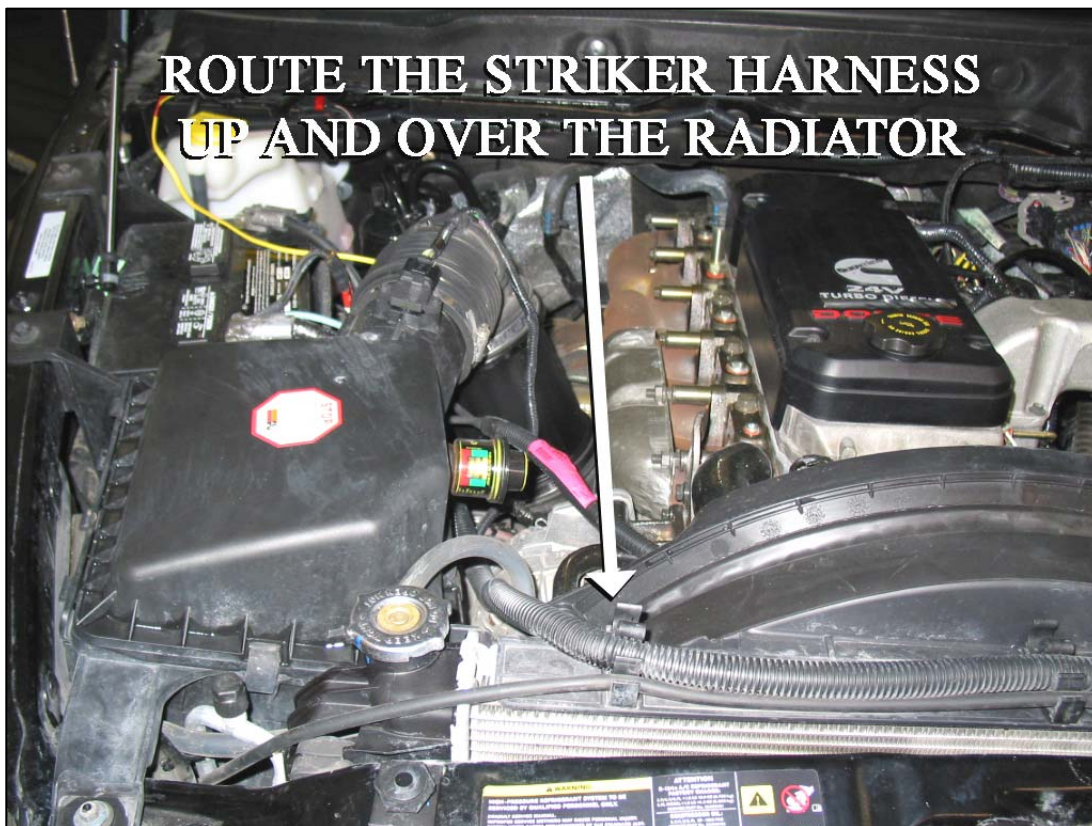




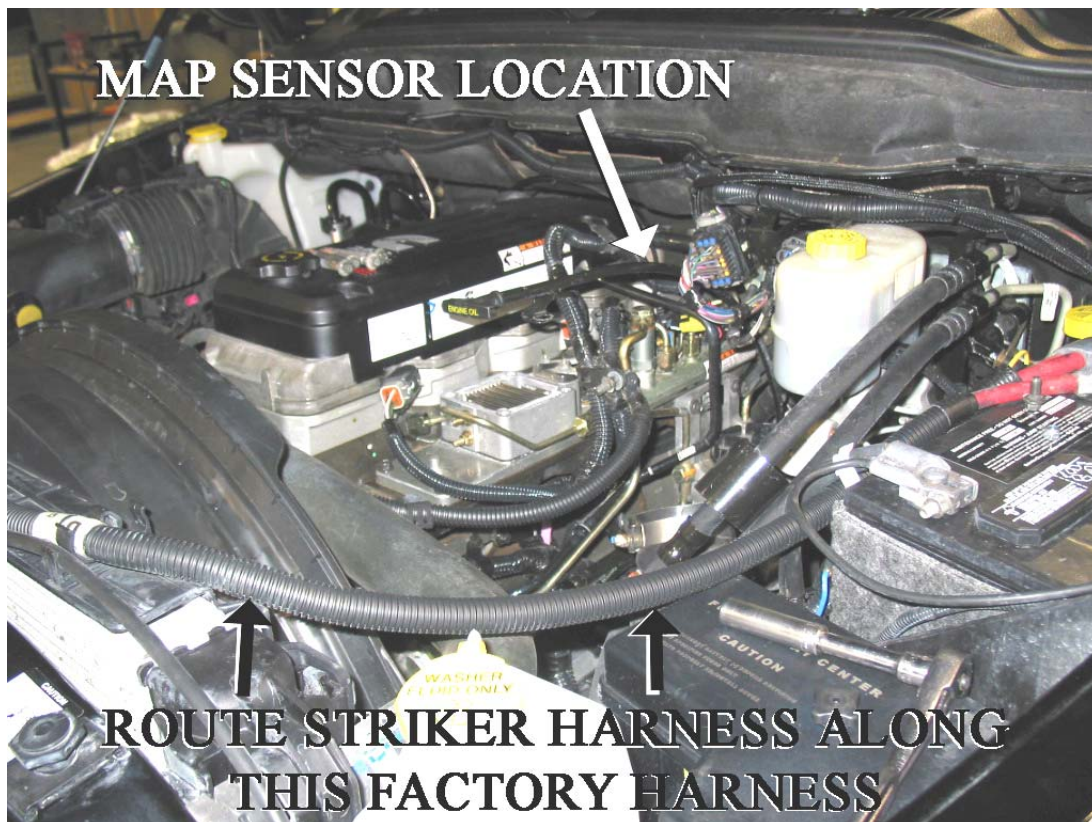
From the waste gate solenoid there are two wires covered in sheathing. These two wires lead to the connector in the photo above. Unplug this connector. Route the Striker harness down the side of the engine next to the wire harness that is already there.

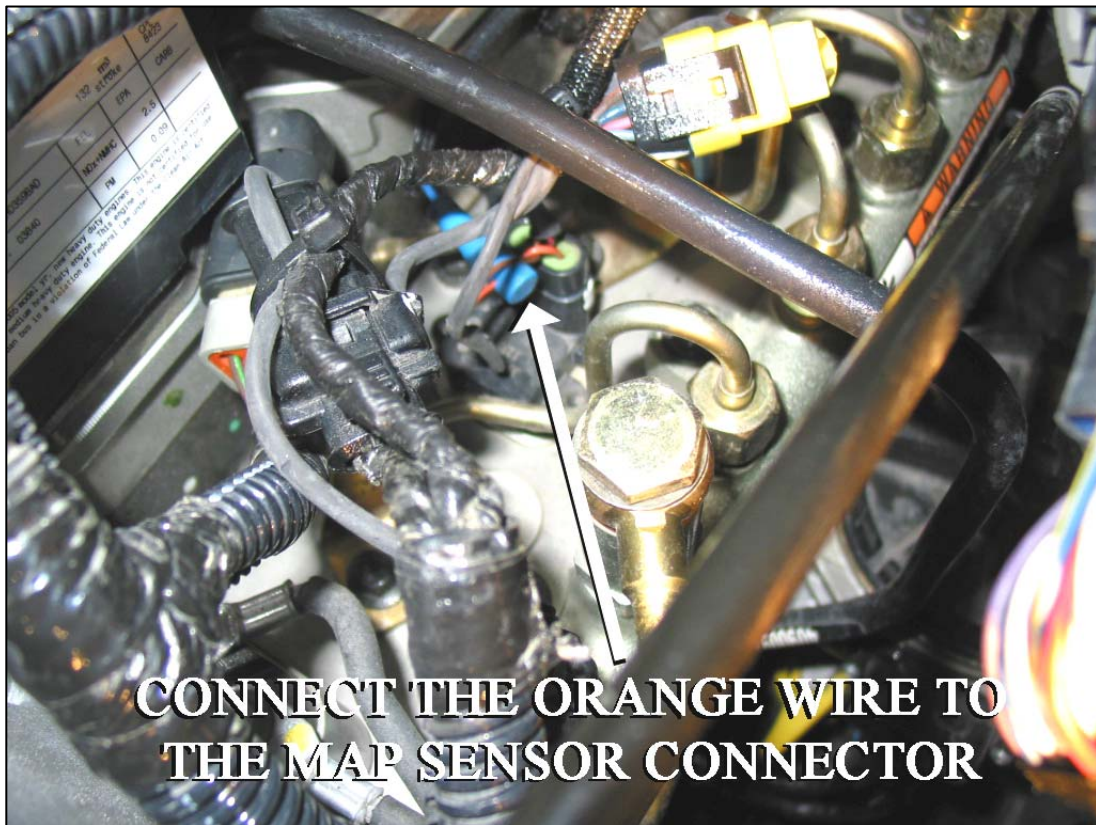
Plug the male connector on the Striker harness into the female factory connector leading to the waste gate solenoid. Plug the female connector on the Striker harness into the male connector on the factory harness.



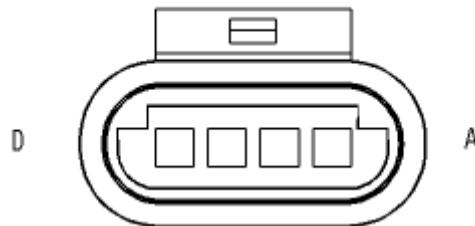


Route the Striker harness on top of the radiator fan shroud and over to the driver's side of the engine compartment. Then route the harness to the firewall. The orange wire labeled MAP sensor should then be routed to the MAP sensor.





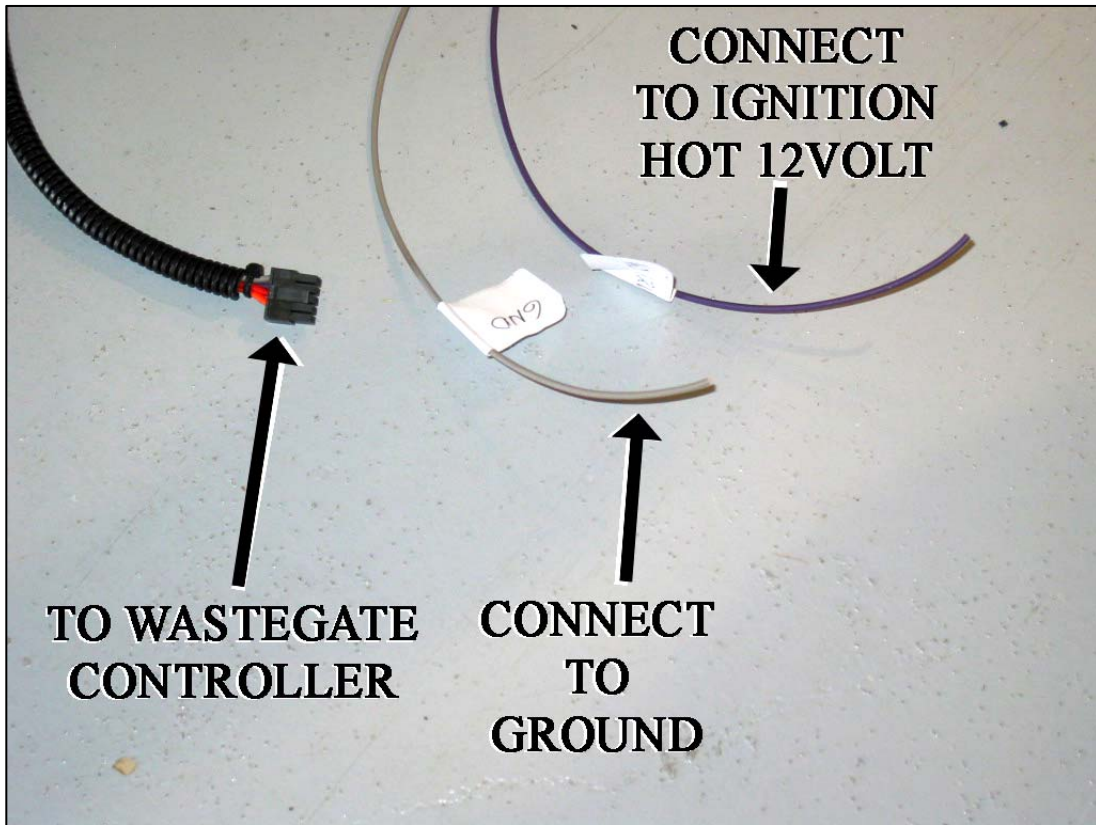
Use one of the Posi-tap connectors supplied to connect the orange wire from the Striker harness to the wire protruding from pin D of the MAP sensor connector. See the picture above and diagrams below. The pins are labeled on the plastic of the MAP sensor connector.



**SENSOR-  
TEMPERATURE/  
PRESSURE-  
MAP  
(DIESEL)**

**SENSOR-TEMPERATURE/PRESSURE-MAP (DIESEL) - 4 WAY**

CAV	CIRCUIT	FUNCTION
A	K916 18BR/OR	SENSOR GROUND
B	K21 18DB/LG	INTAKE AIR TEMPERATURE SENSOR SIGNAL
C	F855 18PK/YL	5 VOLT SUPPLY
D	K37 18LB	BOOST PRESSURE SENSOR SIGNAL



Connect the gray wire labeled ground to the grounding point illustrated below. Route the Striker harness through the firewall. See the illustration below of a grommet that works well to do this. Underneath and to the right of the brake master cylinder there is a rubber grommet in the firewall. This rubber grommet is an ideal place to route the Striker harness to the inside of the vehicle. If the truck has a 6-speed transmission, make sure to not route the wires where the clutch pedal will rub on them.



Connect the purple wire labeled 12 volt ignition to a fused ignition hot source. Use the included Posi-tap to tap onto an ignition hot wire. Under the steering column is a group of wires protruding from the ignition switch connector. Listed below are the ignition hot wires you may tap onto. Use a test light or volt meter to verify you have a key on hot 12 volt wire.

### Ignition Hot Wires

<b>2004-2005</b>	<b>Pink/Yellow</b>
<b>2006-2007</b>	<b>Large Pink/Lt. Green</b>

Route the module connector up to where the module will be mounted. Make sure to not route the wires near the brake, clutch or gas pedals or any movable parts on the steering column. Loosen the screws on the back of the module approximately three turns. Plug in the Striker harness to the module and tighten the screws. Use the supplied Velcro strips and attach the module permanently.

### Module Operation:

This module incorporates four LED's and one push button.

From left to right the LED functions are:

**Power Indication-** Illuminates when module is powered up (key on and/or truck running).

**LED A-** Waste gate status

**LED B-** Level indicator (flashes current level setting)

**Switch LED-** Illuminates when button is pressed to switch between level settings.

**Push Button-** By pushing the button the module switches between level settings.

### Description of level settings:

The different level settings are **0-5** with **0** being the lowest boost setting and **5** being the highest boost setting.

### Initial Startup:

Turn the ignition key to the on position. The power LED should light up. Any other result is considered undesirable and all connections should be rechecked. Press the button to switch between boost level settings. After selection is made, the module will stay in that mode for any following key-on/key-off events.

### Recommendation:

It is recommended to uninstall this harness and module before any work is done on the vehicle by a dealership.

PAINLESS WIRING OFFERS A TECHNICAL ASSISTANCE LINE TO ANSWER ANY QUESTIONS YOU MAY HAVE. THE NUMBER IS (800) 423-9696. PHONES ARE ANSWERED MONDAY THROUGH FRIDAY FROM 8 AM TO 5 PM CENTRAL TIME, NOT INCLUDING HOLIDAYS. PLEASE LEAVE A MESSAGE IF YOU ARE UNABLE TO REACH US AND WE WILL RETURN YOU'RE CALL AS SOON AS POSSIBLE.

## **Painless Performance Limited Warranty and Return Policy**

Chassis harnesses and fuel injection harnesses are covered under a lifetime warranty. All other products manufactured and/or sold by Painless Performance are warranted to the original purchaser to be free from defects in material and workmanship under normal use. Painless Performance will repair or replace defective products without charge during the first 12 months from the purchase date. No products will be considered for warranty without a copy of the purchase receipt showing the sellers name, address, and date of purchase. You must return the product to the dealer you purchased it from to initiate warranty procedures.

### **NOTES:**