



Transmission Guardian

Thank you for purchasing the Transmission Guardian from Bowler Performance Transmissions. We hope you are 100 percent satisfied with your purchase and if for any reason you are not, we would like to have your input.

Nine out of ten Transmissions fail due to heat. This product is designed to help keep you informed of your transmission temperature and warn when temperatures exceed recommended running temperatures, at which point failures can occur. We do not prevent heat or failure, we only help educate the driver of caution levels and hot conditions. We strongly recommend to pull over when you are in the caution (Yellow) range.

Transmission Guardian from here out will be referred to as (TG)

Although designed with transmissions in mind TG will work for engines, differentials or any source that can use our temp sensor. (Thread adaptors available)

Contents:

- LED indicator light with plastic retaining clip
- Power Harness – red, white and black wires
- Transmission Guardian Controller- LED and Wiring should already be installed – the opposite port is to for the manufacture use only and will not be used by end user.
- Temperature sensor & ring terminal
- Common shop knowledge and tools are required for installation



Installation

TG only requires (3) wires for installation.

Power Harness Wiring



The **Red** wire should be connected to a fused +12 volt ignition switched or constant power supply.

Constant Power Supply Option- Your LED will continue to be on after key is off until temperature drops below 135°. You can monitor the temp while with key off.

Switched Power Supply Option – Your LED will only be on when the key is on and the temperature is above 135°.

he **Black** wire should be connected to a good -0 volt ground chassis located under the dash, if you do not have bare metal, please sand or file a spot to attach the black wire to.

The **White** wire will be run to the supplied temperature sensor, located in the transmission. Be sure to route wires clear of any exhaust, hot areas or sharp edges. We recommend installing wire loom around the white wire to protect it.

Transmission Guardian LED & Harness

Determine a location you would like to have the TG LED mounted in your vehicle. Drill a ¼" diameter hole and snap the plastic LED retaining clip into the hole. Now press the TG LED from the backside into the LED clip until it snaps into the location. Now route the TG LED harness to the TG controller, ensure to route the harness away from any sharp edges. You can mount the TG controller with double sided tape, Velcro or there is a small mounting hole on the controller to be used with a screw or zip tie.

LED retaining Clip



LED



Temperature Sensor



The temperature sensor will screw into a factory pressure port on your transmission. Most transmissions have a standard 1/8" NPT pressure port located on the side of the transmission. Adapters can be purchased if required for some applications. The sensor can be mounted in the transmission pan; however most transmission pans will require being removed and a common 1/8" NPT weld in sensor bung to be installed. 1/8" NPT weld in bungs can be found at most parts stores. If you choose to mount the sensor in the pan, please ensure that the transmission is cool before removing the pan. You will need to drain the fluid and clean the pan, and then carefully inspect the area you plan to install the sensor bung. Ensure that proper clearance is allowed and test fit before drilling any holes. Weld the bung into the pan and test for leaks around the weld before installing. Then install a new pan gasket and fill with the correct fluid type and amount. * refer to your vehicle service manual for proper fluid level and type.

It is recommended that you apply Loctite 518 or a Teflon paste thread sealant to the threads and ensure you have tightened the sensor to prevent any leaks. We do not recommend Teflon tape.



Sealant applied to sensor



Common pressure port



TG Sensor installed

We hope you enjoy the added protection Transmission Guardian will give your vehicle.

LED COLOR REFERENCE

-  **Blue** = The LED turns on, solid blue at 135° F.
-  **Yellow** = Once you get to 210° F. TG will start to cycle towards the color yellow.
-  **Red** = At 220° F it will turn solid Red.
-  **Red/Blink** = At 230°F it will start to blink, one blink per second, then it will increase blink rate as the temperature exceeds 230° F. It will go from one to four blinks per second; one blink per second equals 230° and four blinks per second equals 240° F. At this point your transmission is running very hot, damage may be occurring.
-  **Red/Blue** = At 250° F it will alternate between red and blue at four blinks per second. Damage to your transmission is imminent.

90 Day Limited / Conditional Warranty

Phantom-Products, LLC. (Phantom) warrants to the original retail consumer purchaser, and not any other purchaser or subsequent owner, that this Product will be free from defects in material or workmanship for a period of **ninety (90) days** from the purchase date.

For a period of **ninety (90) days from** the date of purchase, at no charge to the Purchaser, Phantom Products will repair or replace this Product if it is determined by Phantom Products to be defective. After the warranty period, the Purchaser must pay all charges for parts and labor.

Phantom Products does **not warrant the installation** of the Product, which is the sole responsibility of the Purchaser. Installation should be done by licensed professionals. Improper installation may cause damage to the Product and any vehicle in which it is installed, and may cause burns and electrical injury to individuals. Phantom Products warranty does not cover any expenses incurred in removing Products that are defective or re-installing replacement Products in their place.

During the warranty period, to have the Product repaired or replaced, the Purchaser must return the Product, freight prepaid by the Purchaser, to Phantom Products (but for customers in the contiguous United States, Phantom Products will pay the shipping charges if any Product fails during the first thirty (30) days after purchase). The Product must be returned in its original carton or in a similar package affording an equal degree of protection. Phantom Products will return the repaired or replaced Product, freight prepaid, to the Purchaser. Phantom Products does not provide Purchasers with temporary replacement units during the warranty period or at any other time.

This limited warranty is non-transferrable and will automatically terminate if the original retail consumer purchaser resells the Product or transfers the vehicle in which the Product is installed. An "original retail consumer purchaser" is a person who originally purchases the Product, or a gift recipient of a new Product that is in its original packaging and unopened.

This limited warranty is subject to all of the following terms and conditions:

TERMS AND CONDITIONS

- 1. NOTIFICATION OF CLAIMS; WARRANTY SERVICE:** If Purchaser believes that a Product is defective in material or workmanship, written notice with an explanation of the claim shall be given promptly by Purchaser to Phantom Products. All warranty claims must be made within the warranty period, and any Products returned to Phantom Products must be shipped in accordance with Phantom Products procedures (including use of RMA numbers supplied by Phantom Products after notification). The repair or replacement of any Product or part thereof shall not extend the original warranty period. The specific warranty on the repaired part only shall be in effect for a period of ninety (90) days following the repair or replacement of that part, or the remaining period of the Product warranty, whichever is greater. Phantom Products does not provide a warranty on replacement gauge sensors.

2. **EXCEPTIONS TO LIMITED WARRANTY:** Phantom Products shall have no obligation to Purchaser with respect to any Product that is subjected to any of the following: abuse, improper use, negligence, accident, modification, failure to follow the operating procedures outlined in the instructions.

3. **PROOF OF PURCHASE; REGISTRATION:** The Purchaser's dated bill of sale must be retained as evidence of the date of purchase and to establish warranty eligibility.

DISCLAIMER OF WARRANTY

EXCEPT FOR THE FOREGOING WARRANTIES, PHANTOM PRODUCTS HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY WITH REGARD TO ANY CLAIM OF INFRINGEMENT THAT MAY BE PROVIDED IN SECTION 2-312(3) OF THE UNIFORM COMMERCIAL CODE OR IN ANY OTHER STATE STATUTE.

LIMITATION OF LIABILITY

THE LIABILITY OF PHANTOM PRODUCTS, IF ANY, AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER, REGARDLESS OF THE LEGAL THEORY AND WHETHER ARISING IN TORT OR CONTRACT, SHALL NOT BE GREATER THAN THE ACTUAL PURCHASE PRICE OF THE PRODUCT FOR WHICH SUCH CLAIM IS MADE. IN NO EVENT SHALL BE LIABLE TO PURCHASER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS OR FOR ANY OTHER REASON WHATSOEVER.

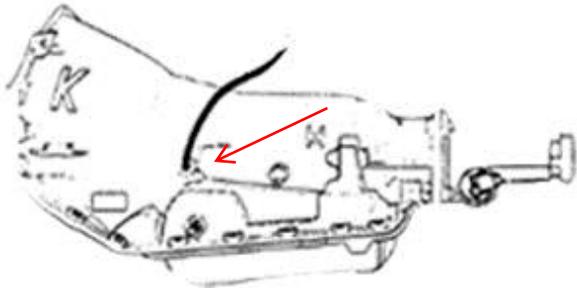
GOVERNING LAW: This non-transferrable limited warranty shall be governed by the law of the State of Illinois, U.S.A., and the United States of America, excluding their conflicts of laws principles. The courts of Lawrence County, Illinois, shall have the exclusive jurisdiction over any legal action with respect to this warranty.

This limited warranty gives specific legal rights. You may also have other rights that may vary from state to state or from country to country. Some states or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. You are advised to consult applicable state or country laws for a full determination of rights.

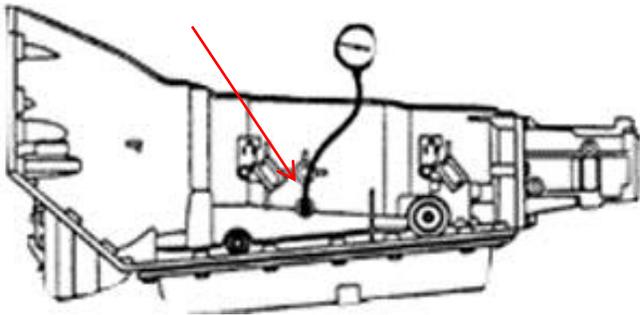
Common Transmission Pressure Port Reference Guide

We have briefly provided sample pictures of common transmissions used in today's market. We couldn't possibly list each and every transmission. Please refer to a Motor, Chilton or ATSG book for further reference.

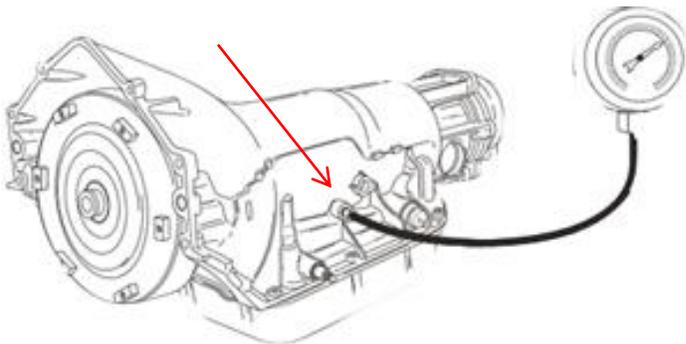
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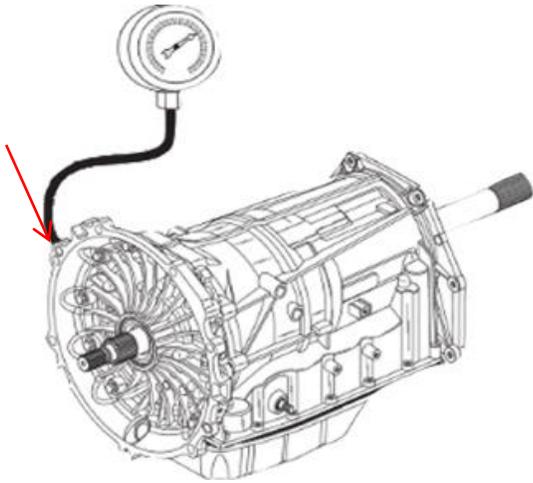
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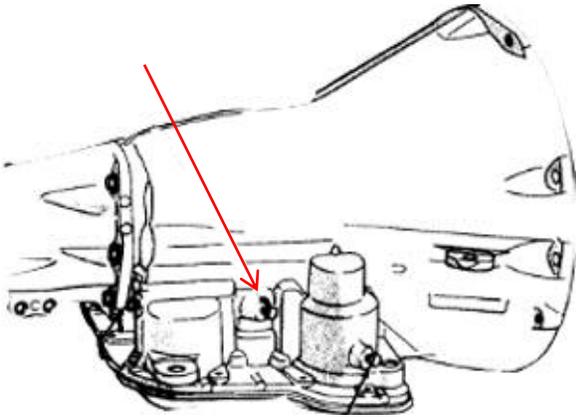
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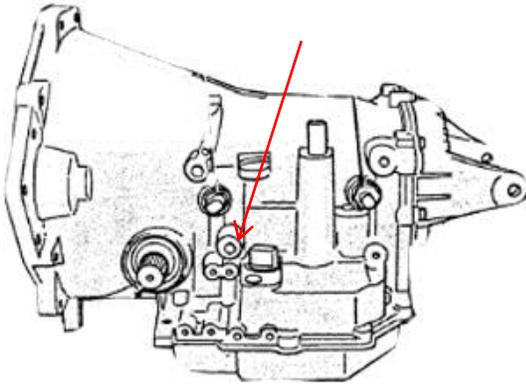
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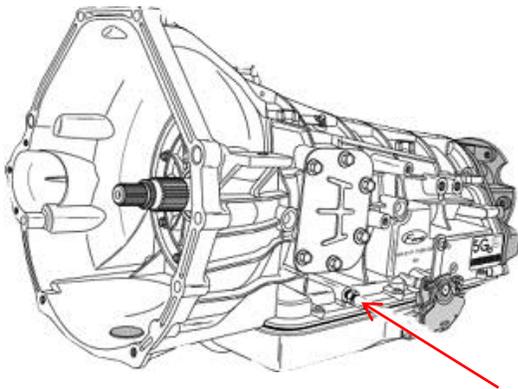
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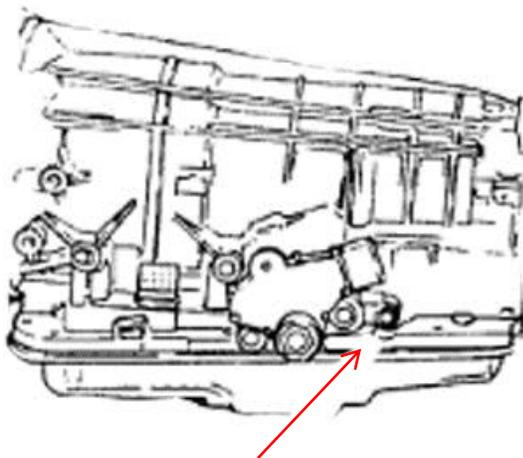
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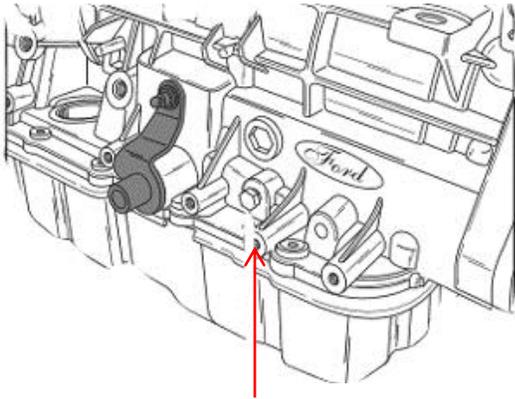
4R100 E4OD



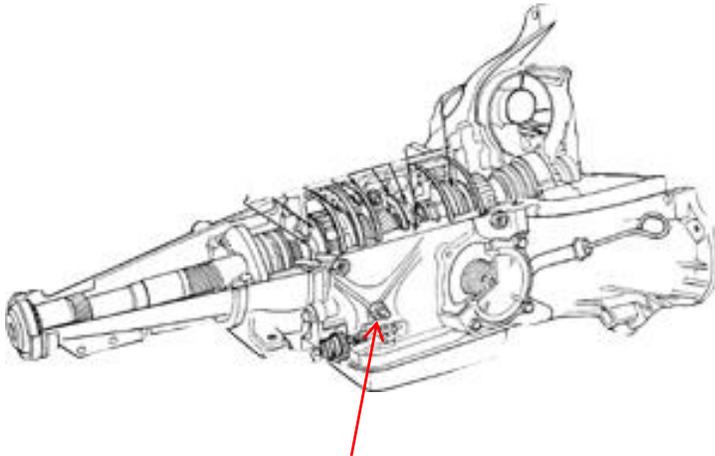
5R55E



5R55N 5R55W



C-5 C-4



AOD 4R70W 4R75E AODE

