

BAIXINDE 28820-PPW-013

BAIXINDE 28820-PPW-013 Transmission Transfer Speed Sensor User Manual

Model: 28820-PPW-013 | Brand: BAIXINDE

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the BAIXINDE 28820-PPW-013 Transmission Transfer Speed Sensor. Please read this manual thoroughly before use to ensure proper function and longevity of the product.

2. PRODUCT OVERVIEW AND FEATURES

The BAIXINDE 28820-PPW-013 Transmission Transfer Speed Sensor is a high-quality component designed to meet or exceed OEM specifications. It plays a crucial role in monitoring the rotational speed of the transmission, providing vital data to the vehicle's engine control unit (ECU) for optimal performance and gear shifting.

Key Features:

- Designed according to OE standard, ensuring reliability and durability.
- Rigorously tested for precise fit and plug-and-play installation.
- Direct replacement for multiple OEM and aftermarket part numbers.



Figure 1: Front view of the BAIXINDE Transmission Transfer Speed Sensor, highlighting the electrical connector and mounting flange.

3. COMPATIBILITY

This transmission transfer speed sensor is compatible with the following vehicle models:

- **Acura:**

- RL: 2005-2008
- RSX: 2002-2006
- TSX: 2004-2008

- **Honda:**

- Accord: 2003-2007
- CR-V: 2005-2006
- Element: 2003-2006

Important: Always verify the OE number of your original part against the replacement part numbers provided to ensure correct fitment. If unsure, please contact the manufacturer with your vehicle's model, year, and engine model.

4. REPLACEMENT PART NUMBERS

This sensor is a direct replacement for the following part numbers:

- 28820-PPW-013
- SC233
- SU7839
- VSS766
- 1802-306050
- SN7166
- 72-4002

5. SETUP AND INSTALLATION

Installation of automotive sensors can be complex and may require specialized tools and knowledge. It is highly recommended that installation be performed by a qualified automotive technician.

General Installation Steps (Consult Service Manual for Specifics):

1. **Safety First:** Ensure the vehicle is turned off, the parking brake is engaged, and the battery is disconnected before beginning any work.
2. **Locate Old Sensor:** Identify the location of the existing transmission transfer speed sensor. Refer to your vehicle's service manual for the exact position.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old sensor.
4. **Remove Old Sensor:** Unscrew or unbolt the old sensor from its mounting point. Be prepared for a small amount of transmission fluid to leak out.
5. **Inspect Area:** Clean the mounting surface and inspect for any debris or damage.
6. **Install New Sensor:** Insert the new BAIXINDE sensor into the mounting hole. Ensure the O-ring (if present) is properly seated.
7. **Secure Sensor:** Tighten the sensor to the manufacturer's specified torque. Do not overtighten.
8. **Connect Wiring:** Reconnect the electrical connector to the new sensor, ensuring it clicks securely into place.
9. **Reconnect Battery:** Reconnect the vehicle's battery.
10. **Test Functionality:** Start the vehicle and check for proper operation and ensure no warning lights related to the transmission speed sensor are illuminated.



Figure 2: Side view of the sensor, illustrating its overall shape and the electrical connection point.

6. OPERATING PRINCIPLES

The transmission transfer speed sensor operates by detecting the rotational speed of a component within the transmission or transfer case. This information is then converted into an electrical signal and sent to the vehicle's ECU. The ECU uses this data for various functions, including:

- Accurate gear shifting in automatic transmissions.
- Controlling the torque converter lock-up.
- Providing input for the speedometer and odometer.
- Assisting in the operation of traction control and anti-lock braking systems (ABS).

A properly functioning speed sensor ensures smooth vehicle operation and accurate speed readings.



Figure 3: A different angle of the sensor, highlighting the mounting point and the metallic sensor tip.

7. MAINTENANCE

Transmission speed sensors are generally maintenance-free components. However, regular vehicle maintenance can help ensure their longevity:

- **Transmission Fluid Checks:** Ensure transmission fluid levels are correct and the fluid is clean. Contaminated or low fluid can indirectly affect sensor performance or lead to transmission issues.
- **Wiring Inspection:** Periodically inspect the sensor's wiring harness for any signs of damage, fraying, or corrosion.
- **Cleanliness:** Keep the area around the sensor free from excessive dirt, debris, or fluid leaks.



Figure 4: Top-down perspective of the sensor, providing a clear view of the electrical connector and the mounting flange.

8. TROUBLESHOOTING

If you experience issues that may be related to the transmission speed sensor, consider the following common symptoms and potential solutions:

Symptom	Possible Cause	Action
Erratic speedometer readings or no speedometer function	Faulty speed sensor, wiring issue, or ECU problem.	Check sensor connection. Inspect wiring for damage. Scan for diagnostic trouble codes (DTCs). Replace sensor if faulty.
Harsh or delayed gear shifts	Incorrect speed signal from sensor, low transmission fluid, or internal transmission issue.	Check transmission fluid level and condition. Scan for DTCs. Test sensor output.

Symptom	Possible Cause	Action
Check Engine Light (CEL) illuminated with transmission-related codes (e.g., P0720, P0725)	Speed sensor malfunction, circuit open/short, or internal sensor failure.	Retrieve DTCs using an OBD-II scanner. Diagnose based on specific code. Test sensor and wiring continuity.

Note: For complex issues or if you are unsure, it is always best to consult a certified automotive mechanic.



Figure 5: An angled view of the sensor, providing another perspective on its design and components.

9. SPECIFICATIONS

Specification	Detail
Item Model Number	28820-PPW-013

Specification	Detail
Manufacturer	BAIXINDE
Brand	BAIXINDE
Mounting Type	Flange Mount
Specific Uses For Product	Speed Sensing
Country of Origin	China



Figure 6: Close-up angled view of the sensor, emphasizing the metallic sensing element.

10. WHAT'S IN THE BOX

The product package typically includes:

- 1 x Transmission Speed Sensor



Figure 7: The product as typically packaged, showing the sensor within its protective wrapping.

11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the seller's policy on the platform where the product was purchased. It is recommended to retain your proof of purchase for any warranty claims.

If you have questions regarding compatibility or installation, you may contact the manufacturer BAIXINDE through their official channels or the platform's messaging system. When contacting support, please provide your vehicle's model, year, and engine model for accurate assistance.



Figure 8: Rear view of the sensor, providing a clear look at the electrical connector pins.