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CULMKARI LR-005

CULMKARI TPS Throttle Position Sensor

INSTRUCTION MANUAL

1. PRODUCT OVERVIEW

The CULMKARI Throttle Position Sensor (TPS) is a critical component designed to accurately measure the throttle valve's position in your vehicle's engine. This data is then transmitted to the engine control unit (ECU) to optimize fuel injection volume and ensure efficient engine operation. Proper functioning of the TPS sensor is essential for smooth acceleration, stable idle, and overall engine performance.



Image: Front view of the CULMKARI TPS Throttle Position Sensor.

2. Compatibility

This TPS Throttle Position Sensor is designed as a direct replacement for the original part number **3B4-85885-00-00**. It is compatible with a wide range of Yamaha models, ensuring a precise fit and reliable performance.



Image: Compatibility overview for Yamaha models.

Compatible Yamaha Models:

- **Grizzly:**
  - 550 (2009-2015, various 4WD, Hunter, EPS, FI models)
  - 700 (2008-2017, various 4WD, Hunter, EPS, FI, Ducks Unlimited, LE, SE models)
- **Kodiak:**
  - 700
- **Rhino:**
  - 700
- **Road Star**
- **Viking:**

- 700

- **YFZ450X**
- **YFZ450R**

Please verify your vehicle's specific model and year against the provided compatibility list and part number to ensure correct fitment.



Image: Replacement part number reference.

3. Key Features

The CULMKARI TPS sensor is engineered for optimal performance and ease of use:

- **Precise Fuel Control:** Accurately controls fuel injection volume to ensure normal and efficient engine operation.
- **Enhanced Engine Start:** Features two contacts that help judge the engine's working state, contributing to improved starting speed.

- **Direct Replacement:** Designed to replace the original part number 3B4-85885-00-00 directly.
- **Plug and Play Installation:** Simplifies the installation process, requiring no special tools.



Image: Explanation of TPS sensor function.

4. Installation Guide

Follow these steps for a straightforward installation of your new TPS sensor. Always ensure safety precautions are taken, including disconnecting the battery, before beginning any work on your vehicle.



Image: Visual guide for TPS sensor installation.

1. **Prepare:** Disconnect the vehicle battery's negative terminal. This prevents electrical shorts and ensures safety during installation.
2. **Locate:** Find the old TPS sensor on the engine throttle body. It is usually located near the throttle cable or linkage. The exact position may vary slightly by model.
3. **Remove:** Carefully unscrew any fixing screws holding the old sensor in place. Unplug the electrical connector from the old sensor.
4. **Install:** Align the new CULMKARI TPS sensor with the mounting points. Tighten the screws securely, but do not overtighten. Plug the electrical connector firmly into the new sensor.
5. **Check:** Reconnect the vehicle battery's negative terminal. Start the vehicle and check the sensor's function. Observe for stable idle, smooth acceleration, and absence of engine warning lights.

If you are unsure about any step, it is recommended to consult a professional mechanic or refer to your vehicle's specific service manual.

5. Technical Specifications

Detailed specifications for the CULMKARI TPS Throttle Position Sensor (Model: LR-005).



Image: Detailed views of the TPS sensor components.

Specification	Detail
Model Number	LR-005
Replacement Part Number	3B4-85885-00-00
Brand	CULMKARI
Package Dimensions	5.67 x 5.04 x 0.98 inches
Item Weight	2.4 ounces

Specification	Detail
Mounting Type	Flange Mount
Output Type	Push-Pull
Specific Uses For Product	Starting

6. Troubleshooting

If you encounter issues after installing the TPS sensor, consider the following common troubleshooting steps:

- **Engine Idling Issues (Rough Idle, Stalling):**
  - Ensure the sensor is correctly seated and the mounting screws are tightened.
  - Verify the electrical connector is fully plugged in and secure.
  - Check for any bent or corroded pins on the sensor or harness connector.
- **Poor Acceleration or Hesitation:**
  - Confirm the sensor's rotational alignment is correct if applicable to your model (some TPS sensors require specific alignment during installation).
  - Ensure no debris or obstructions are preventing the throttle body from moving freely.
- **Check Engine Light (CEL) Illumination:**
  - Use an OBD-II scanner (if available for your vehicle) to retrieve diagnostic trouble codes (DTCs). This can pinpoint the exact issue.
  - Clear any existing codes after verifying the installation. If the light returns, further diagnosis is needed.
- **Sensor Not Working / Defective:**
  - While rare, a new part can sometimes be defective. If all installation steps are confirmed correct and issues persist, consider testing the sensor's output with a multimeter (refer to a service manual for expected voltage ranges).
  - Ensure the part number matches exactly for your vehicle.

If troubleshooting steps do not resolve the issue, it is advisable to seek assistance from a qualified mechanic or contact CULMKARI customer support.

7. Care and Maintenance

The CULMKARI TPS sensor is designed for durability and requires minimal maintenance. However, following these general guidelines can help ensure its longevity:

- **Keep Connections Clean:** Periodically inspect the electrical connector for dirt, corrosion, or loose connections. Clean with an appropriate electrical contact cleaner if necessary.
- **Avoid Physical Damage:** Protect the sensor from impacts or excessive force during handling or other engine maintenance.
- **Professional Installation:** While designed for DIY, professional installation can prevent common errors and ensure optimal performance.

8. Warranty and Support

CULMKARI is committed to providing high-quality products and excellent customer service. While specific warranty details are not provided in this manual, CULMKARI offers experienced customer service to resolve inquiries promptly and professional technicians to provide support.

For any questions regarding installation, compatibility, troubleshooting, or warranty claims, please contact CULMKARI customer support through the retailer where the product was purchased or directly via the official CULMKARI website.

Contact Information: Please refer to the packaging or the official CULMKARI brand store on Amazon for the most up-to-date contact details.

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