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CAC JF011E

Instruction Manual: JF011E RE0F10A Gearbox Valve Body

Brand: CAC | Model: JF011E

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1. SAFETY INFORMATION

Please read all safety instructions carefully before handling or installing the JF011E RE0F10A Gearbox Valve Body. Failure to follow these instructions may result in injury or damage to the product or vehicle.

- Eye Protection:** Always wear appropriate eye protection when working with automotive components and tools.
- Proper Tools:** Use only the correct tools for installation to prevent damage to the valve body or surrounding components.
- Professional Installation Recommended:** Due to the complexity of transmission systems, professional installation by a qualified technician is highly recommended. Searching for related installation videos online can provide additional guidance.
- Compatibility Verification:** Before purchase and installation, ensure the part number matches your vehicle's original part. Verify fitment by checking your car's specific year, model, and OEM specifications. If unsure, contact the supplier with your VIN, year, make, and model for verification.
- Handling Returns:** If the product is incorrect for your vehicle, do not damage the label or barcode. Return it in its original packaging. If already installed, clean the product thoroughly and return it in resaleable original packaging.

2. PRODUCT OVERVIEW

The JF011E RE0F10A Gearbox Valve Body is a remanufactured component designed for specific CVT (Continuously Variable Transmission) applications. It is engineered from high-quality materials to enhance reliability.

and durability within your vehicle's transmission system. This valve body is specifically for JF011E transmissions and is not compatible with JF010E models.

Key Features:

- Remanufactured condition for reliable performance.
- OEM part number: JF011E RE0F10A.
- Constructed from high-quality metal for improved durability.
- Designed to improve transmission reliability.

Compatibility:

This valve body is compatible with various Nissan, Suzuki, Mitsubishi, and Peugeot models equipped with the JF011E CVT transmission. Please refer to the detailed compatibility table below:

| Make | Model/Series | Years | Engine |
|------------|---------------------|-----------|----------------------|
| Nissan | ALTIMA/ALTIMA COUPE | 2007-2011 | L4 2.5L |
| Nissan | BLUEBIRD SYLPHY | 2005-2011 | L4 1.8L 2.0L |
| Nissan | DUALIS | 2007-2011 | L4 2.0L |
| Nissan | ELGRAND | 2010-2011 | L4 2.5L |
| Nissan | LAFESTA | 2004-2010 | L4 2.0L |
| Nissan | MURANO | 2008-2011 | L4 2.5L |
| Nissan | QASHQAI/QASHQAI+2 | 2006-2011 | L4 1.6L 2.0L |
| Nissan | QAZANA | 2010-2011 | L4 1.6L 2.0L |
| Nissan | ROGUE | 2007-2011 | L4 2.5L |
| Nissan | SENTRA | 2006-2011 | L4 2.0L 2.5L |
| Nissan | SENTRA | 2005-2011 | L4 2.0L |
| Nissan | TEANA | 2008-2011 | L4 2.0L 2.5L V6 2.5L |
| Nissan | TIIDA | 2010-2011 | L4 1.6L 1.8L |
| Nissan | VERSA | 2011-ON | L4 2.0L |
| Nissan | X-TRAIL | 2008-2011 | L4 2.0L 2.5L |
| Suzuki | KIZASHI D-CAR | 2009-2011 | L4 2.4L |
| Mitsubishi | DELICA D:5 | 2007-2011 | L4 2.4L |
| Mitsubishi | GALANT FORTIS | 2007-2011 | L4 2.0L 2.4L |
| Mitsubishi | LANCER | 2008-2011 | L4 1.8L 2.0L 2.4L |
| Mitsubishi | OUTLANDER | 2008-2011 | L4 2.4L |
| Peugeot | X-TRAIL | 2008-2011 | L4 2.0L 2.5L |

Product Visuals:



Figure 2.1: Top view of the JF011E RE0F10A Gearbox Valve Body, showing the main housing, wiring harness, and various solenoids.

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Video 2.1: Official product video showcasing the JF011E RE0F10A Gearbox Valve Body from various angles, highlighting its features and components.

3. INSTALLATION

Proper installation is crucial for the correct function and longevity of the JF011E RE0F10A Gearbox Valve Body. It is highly recommended to consult a professional mechanic or refer to specific vehicle service manuals and online installation videos for detailed, step-by-step guidance. Always prioritize safety by wearing eye protection and using appropriate tools.

Pre-Installation Checks:

- **Verify Compatibility:** Double-check that the valve body's OEM part number (JF011E RE0F10A) matches your vehicle's requirements. Confirm compatibility with your car's specific year, make, and model.
- **Inspect Packaging:** Upon receipt, inspect the package and the valve body for any signs of shipping damage.
- **Gather Tools:** Ensure all necessary tools for transmission work are available, including torque wrenches, fluid drain pans, and appropriate sockets.
- **Prepare Workspace:** Work in a clean, well-lit area with adequate ventilation.

General Installation Steps (Consult Service Manual for Details):

1. Safely lift and secure the vehicle on jack stands or a lift.
2. Drain the transmission fluid.
3. Remove the transmission oil pan and filter.
4. Carefully disconnect electrical connectors and mounting bolts securing the old valve body.
5. Remove the old valve body.
6. Install the new JF011E RE0F10A valve body, ensuring all electrical connections are secure and bolts are torqued to manufacturer specifications.
7. Install a new transmission filter and gasket, then reattach the oil pan.
8. Refill the transmission with the correct type and amount of CVT fluid.
9. Perform necessary diagnostic and learning procedures as per the vehicle manufacturer's guidelines.

Detailed Product Views for Installation Reference:



Figure 3.1: Close-up view of the electrical connectors on the valve body, crucial for proper wiring during installation.



Figure 3.2: Side view of the valve body, showing mounting points and fluid passages.

Figure 3.3: Bottom view of the valve body, illustrating the fluid channels and solenoid locations.



Figure 3.4: Angled view providing a comprehensive look at the valve body's overall structure.



Figure 3.5: Top view with detailed wiring and sensor placements, aiding in correct reassembly.



4. OPERATION

The JF011E RE0F10A Gearbox Valve Body is a critical component within a Continuously Variable Transmission (CVT) system. Its primary function is to control the flow and pressure of transmission fluid to various parts of the transmission, including the pulleys and clutches. This precise hydraulic control allows the CVT to seamlessly adjust gear ratios, providing smooth acceleration and optimal fuel efficiency.

The valve body houses a complex network of fluid passages, valves, and solenoids. These solenoids, controlled by the Transmission Control Module (TCM), regulate fluid pressure to engage and disengage clutches and vary the effective diameter of the CVT pulleys. This continuous adjustment ensures the engine operates at its most efficient RPM range under varying driving conditions.

5. MAINTENANCE

While the valve body itself typically does not require routine maintenance, its longevity and proper function are directly tied to the overall health of your vehicle's CVT transmission. Adhering to the vehicle manufacturer's recommended maintenance schedule for your transmission is essential.

- **Transmission Fluid:** Regularly check and change your CVT fluid according to your vehicle's service manual. Using the correct type of CVT fluid is paramount, as improper fluid can lead to premature wear and failure of transmission components, including the valve body.
- **Fluid Filter:** Replace the transmission fluid filter(s) during fluid changes to ensure clean fluid circulation and prevent contaminants from affecting valve body operation.
- **Avoid Overheating:** Prevent transmission overheating, which can degrade fluid quality and damage internal components. Ensure your vehicle's cooling system is functioning correctly.
- **Professional Inspection:** If you notice any unusual transmission behavior (e.g., slipping, delayed engagement, strange noises), have your transmission inspected by a qualified professional immediately.

6. TROUBLESHOOTING

Issues with a transmission valve body can manifest in various ways. If you experience any of the following symptoms after installation or during normal operation, it may indicate a problem with the valve body or other

transmission components. Professional diagnosis is highly recommended.

- **Delayed or Harsh Engagement:** The transmission takes longer than usual to engage a gear, or engages with a noticeable jolt.
- **Slipping Transmission:** The engine RPM increases, but the vehicle does not accelerate proportionally, indicating power loss.
- **Erratic Shifting:** Inconsistent or unpredictable gear changes (though CVTs don't have traditional 'shifts', they can have erratic ratio changes).
- **Check Engine Light:** The vehicle's diagnostic system may trigger a check engine light with specific transmission-related fault codes.
- **Unusual Noises:** Whining, clunking, or grinding noises coming from the transmission area.
- **Overheating:** Transmission fluid temperature warning light illuminates.

Important: Do not attempt complex repairs without proper training and tools. Consult a certified automotive technician for accurate diagnosis and repair of transmission issues.

7. SPECIFICATIONS

Below are the technical specifications for the JF011E RE0F10A Gearbox Valve Body:

| Attribute | Value |
|--------------------------|-----------------------------|
| Brand | CAC |
| Model Number | JF011E |
| Manufacturer Part Number | JF011E |
| Material | Metal |
| Valve Type | Valve Body |
| Number of Ports | 2 |
| Inlet Connection Type | Threaded |
| Outlet Connection Type | NPT |
| Item Weight | 10.91 pounds |
| Package Dimensions | 15.04 x 10.47 x 7.68 inches |
| UPC | 683817504413 |

8. WARRANTY & SUPPORT

For information regarding the warranty of your JF011E RE0F10A Gearbox Valve Body, please refer to the product

listing on the retailer's website or contact the seller directly. Warranty terms and conditions may vary. If you require technical assistance, have questions about installation, or need to verify compatibility, please contact the manufacturer or seller through the platform where the product was purchased. Providing your vehicle's VIN and the product's model number (JF011E) will help expedite support.