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## TCI 376010 700R4 Reverse Shift Pattern Full Manual Valve Body Instruction Manual

Model: 376010

### 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the TCI 376010 700R4 Reverse Shift Pattern Full Manual Valve Body with Lock-Up Capability. This product is engineered to enhance the performance of 700R4 transmissions in racing and high-performance applications.

The TCI 376010 valve body offers **full manual operation**, allowing the driver complete control over gear selection. It features a **reverse shift pattern** for specific racing requirements and retains the original **lock-up capability** of the transmission. Key benefits include maximum performance, quicker elapsed times, higher line pressure for reduced clutch slip, and consistent shifting, making it suitable for bracket racing and off-road competition vehicles.

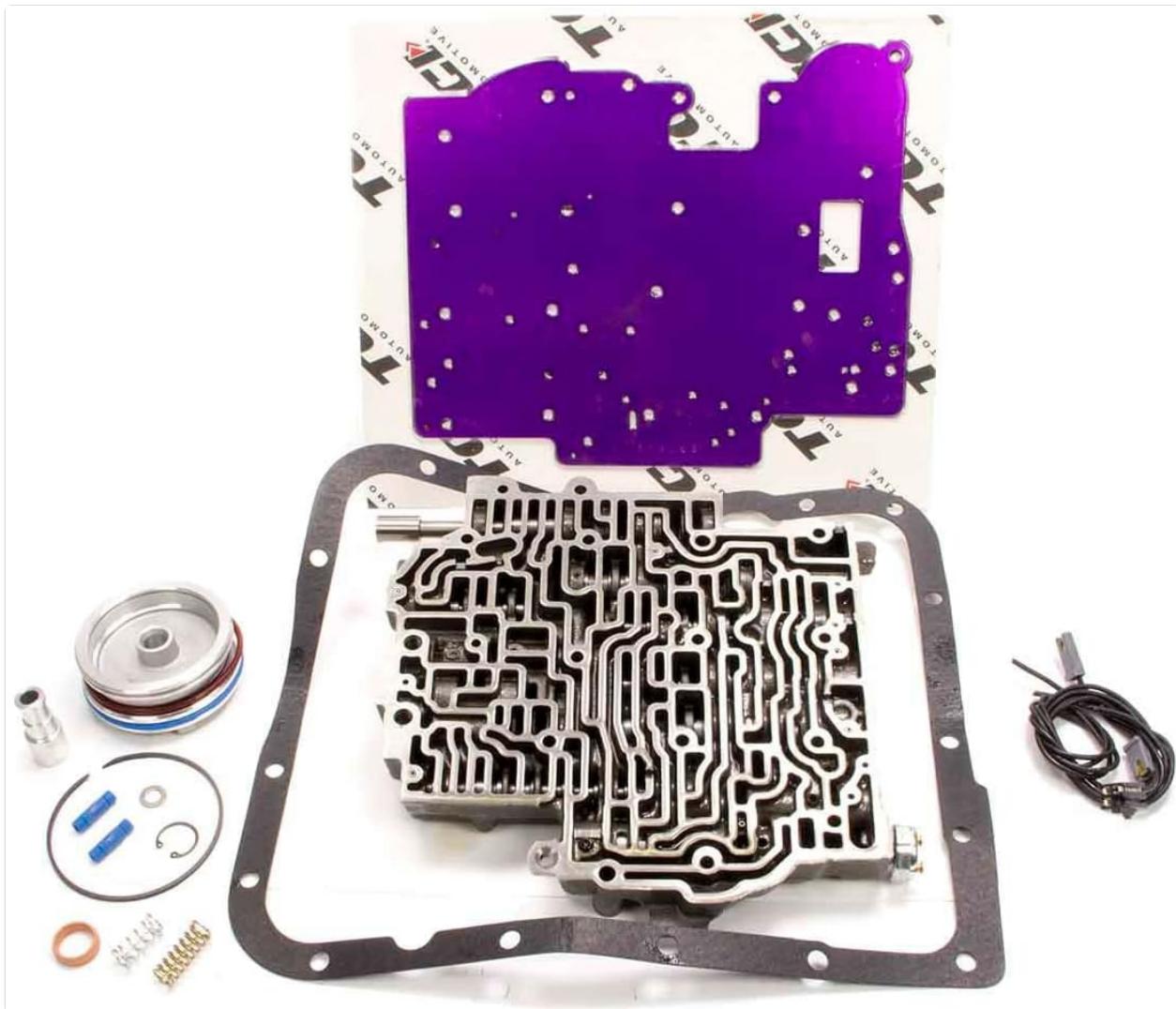


Image 1.1: Components of the TCI 376010 700R4 Reverse Shift Pattern Full Manual Valve Body kit. The image displays the main valve body unit, a purple separator plate, various gaskets, seals, springs, and electrical connectors, all essential for installation.

## 2. SETUP AND INSTALLATION

Installation of the TCI 376010 valve body requires specialized automotive knowledge and tools. It is highly recommended that this procedure be performed by a qualified transmission technician.

### 2.1 Safety Precautions

- Ensure the vehicle is securely supported on jack stands or a lift.
- Disconnect the vehicle's battery before beginning work.
- Allow the transmission fluid to cool to a safe temperature before draining.
- Wear appropriate personal protective equipment, including gloves and eye protection.

### 2.2 Required Tools and Materials

- Socket set and wrenches
- Torque wrench
- Drain pan
- New transmission fluid (type specified by vehicle manufacturer)
- Gasket scraper
- Clean shop rags

## 2.3 Installation Steps (General Overview)

1. Drain the transmission fluid and remove the transmission pan.
2. Carefully remove the existing valve body, noting the position of all components and electrical connections.
3. Clean the transmission case mating surfaces thoroughly, removing all old gasket material.
4. Install the new TCI 376010 valve body, ensuring all passages align correctly and electrical connections are properly seated. Refer to the specific instructions provided with the product for detailed component placement and torque specifications.
5. Install the new transmission pan gasket and pan. Torque pan bolts to manufacturer specifications.
6. Refill the transmission with the appropriate type and amount of fluid.
7. Reconnect the battery.
8. Perform initial checks as outlined in Section 3.2.

## 3. OPERATING INSTRUCTIONS

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The TCI 376010 valve body provides full manual control over gear selection, offering a direct and responsive driving experience. The reverse shift pattern means the gear selector operates in the opposite direction of a standard automatic transmission, typically with the lowest gear (1st) at the bottom of the shift gate.

### 3.1 Manual Shifting

- The driver is responsible for manually selecting each gear (1st, 2nd, 3rd, 4th) at the appropriate engine RPM.
- Familiarize yourself with the reverse shift pattern before operating the vehicle under load.
- Smooth and precise shifts are crucial for optimal performance and transmission longevity.

### 3.2 Lock-Up Capability

This valve body retains the transmission's lock-up capability. The torque converter lock-up function helps improve efficiency by creating a direct mechanical link between the engine and transmission, eliminating slippage. Ensure all electrical connections related to the lock-up solenoid are correctly installed and functioning.

### 3.3 Initial Checks After Installation

- With the vehicle safely supported, start the engine and check for any fluid leaks around the transmission pan and valve body area.
- Cycle through all gear selections (P-R-N-D-L) while observing the transmission fluid level. Add fluid as necessary until the correct level is reached.
- Perform a test drive in a safe, controlled environment to confirm proper shifting and lock-up engagement.

## 4. MAINTENANCE

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Proper maintenance is essential for the longevity and performance of your transmission and the TCI 376010 valve body.

- **Fluid Checks:** Regularly check the transmission fluid level and condition. Refer to your vehicle's service manual for recommended intervals.
- **Fluid Changes:** Adhere to the manufacturer's recommended transmission fluid change intervals. For high-performance or racing applications, more frequent fluid changes may be necessary.

- **Filter Replacement:** Replace the transmission filter during fluid changes to ensure clean fluid circulation.
- **Leak Inspection:** Periodically inspect the transmission for any signs of fluid leaks. Address any leaks promptly to prevent damage.

## 5. TROUBLESHOOTING

If you experience issues after installing the TCI 376010 valve body, consider the following common troubleshooting steps. For complex issues, consult a professional transmission technician.

- **No Shift or Incorrect Shift:**
  - Verify transmission fluid level is correct.
  - Check all electrical connections to the valve body and solenoids.
  - Ensure the shift linkage is properly adjusted.
- **No Torque Converter Lock-Up:**
  - Inspect lock-up solenoid wiring and connections.
  - Confirm the lock-up solenoid itself is functioning.
- **Fluid Leaks:**
  - Check transmission pan gasket and bolts for proper torque.
  - Inspect all fluid lines and connections for tightness.
- **Unusual Noises:**
  - Immediately cease operation and have the transmission inspected by a professional.

## 6. SPECIFICATIONS

Manufacturer	TCI
Model Number	376010
Application	700R4 Transmission
Features	Full Manual Operation, Reverse Shift Pattern, Lock-Up Capability
Item Weight	4.8 pounds
Product Dimensions	11.7 x 14.3 x 4.8 inches

## 7. WARRANTY AND SUPPORT

Specific warranty information for the TCI 376010 700R4 Reverse Shift Pattern Full Manual Valve Body is not provided within the product details. For warranty inquiries, technical support, or further assistance, please contact TCI directly through their official website or customer service channels.