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coolautocore 4F50N AX4S AX4N

coolautocore 4F50N AX4S AX4N Transmission Solenoid Kit Instruction Manual

1. Introduction

This manual provides essential information for the coolautocore 4F50N AX4S AX4N Transmission Solenoid Kit. This kit is designed to replace critical solenoids within compatible automatic transmissions, ensuring proper fluid flow and gear engagement. Please read this manual thoroughly before attempting any installation or maintenance.

2. Product Overview

The coolautocore 4F50N AX4S AX4N Transmission Solenoid Kit includes a set of solenoids crucial for the operation of your vehicle's automatic transmission. These components are responsible for controlling hydraulic pressure and fluid routing, which dictates gear shifts and torque converter lock-up.



Image 2.1: Overview of the coolautocore 4F50N AX4S AX4N Transmission Solenoid Kit, showing all five solenoids included in the package.



Image 2.2: Front view of the transmission solenoids, highlighting their electrical connectors and mounting brackets.



Image 2.3: Top view of some solenoids, illustrating the plunger mechanisms and overall construction.

The kit typically includes various solenoids such as shift solenoids (responsible for gear changes), a Torque Converter Clutch (TCC) solenoid (for engaging/disengaging the torque converter lock-up), and an Electronic Pressure Control (EPC) solenoid (for regulating line pressure). The exact configuration may vary slightly but is designed to address common solenoid-related issues in the specified transmissions.

3. Compatibility

This solenoid kit is compatible with 4F50N, AX4S, and AX4N automatic transmissions found in various 1997-UP F-ORD, L-INCOLN, and M-ERCURY vehicles. It is crucial to verify the part number and compatibility with your specific vehicle model and transmission before purchase and installation.

- **Part Number:** 4F50N AX4S AX4N
- **Compatible Vehicle Brands/Models:** 1997-UP F-ORD, L-INCOLN, M-ERCURY

4. What's in the Box

The coolautocore 4F50N AX4S AX4N Transmission Solenoid Kit includes the components as depicted in the product images. This typically consists of a complete set of transmission solenoids required for the specified transmission models.

5. Setup and Installation

Installation of transmission solenoids requires specialized knowledge, tools, and experience. Incorrect installation can lead to severe transmission damage or vehicle malfunction. **Professional installation by a certified automotive technician is highly recommended.**

General Installation Guidelines (for reference only):

1. **Safety First:** Ensure the vehicle is safely lifted and supported. Disconnect the battery.
2. **Drain Transmission Fluid:** Carefully drain the transmission fluid into a suitable container.
3. **Remove Transmission Pan:** Remove the transmission pan and filter.
4. **Locate Solenoids:** Identify the solenoids to be replaced within the valve body.
5. **Remove Old Solenoids:** Disconnect electrical connectors and carefully remove the old solenoids.
6. **Install New Solenoids:** Install the new coolautocore solenoids, ensuring proper seating and connection of electrical harnesses.
7. **Replace Filter and Pan:** Install a new transmission filter and reattach the transmission pan with a new gasket, torquing bolts to manufacturer specifications.
8. **Refill Fluid:** Refill the transmission with the correct type and amount of transmission fluid.
9. **Test Operation:** Start the vehicle and check for leaks. Perform a road test to ensure proper shifting and operation.

Always refer to your vehicle's specific service manual for detailed, step-by-step instructions and torque specifications.

6. Operating Principles

Transmission solenoids are electromechanical valves controlled by the vehicle's Transmission Control Module (TCM) or Powertrain Control Module (PCM). They open and close to direct transmission fluid to various clutch packs and bands, enabling the transmission to shift gears smoothly and efficiently. The TCC solenoid controls the lock-up of the torque converter, improving fuel economy, while the EPC solenoid regulates the main line pressure within the transmission, affecting shift feel and clutch engagement.

7. Maintenance

Proper maintenance of your transmission is key to the longevity of its components, including solenoids. While solenoids themselves are not typically user-serviceable, adhering to the following practices can help prevent premature failure:

- **Regular Fluid Changes:** Follow your vehicle manufacturer's recommended schedule for transmission fluid and filter changes. Use only the specified type of transmission fluid.
- **Monitor Fluid Levels:** Regularly check transmission fluid levels and top up as needed. Low or contaminated fluid can cause solenoid malfunction.
- **Address Issues Promptly:** If you notice any unusual shifting behavior, delayed engagement, or a check engine light related to the transmission, have it inspected by a qualified technician immediately.

8. Troubleshooting

Faulty transmission solenoids can manifest in various ways. If you experience any of the following symptoms, it may indicate a solenoid issue:

- **Harsh or Delayed Shifting:** Gears may engage abruptly or with a noticeable delay.
- **No Engagement of Gears:** The transmission may fail to engage a specific gear or any gear at all.

- **Slipping Gears:** The transmission may slip out of gear or fail to hold a gear.
- **Check Engine Light:** The vehicle's check engine light may illuminate, often accompanied by specific diagnostic trouble codes (DTCs) related to transmission solenoids.
- **Torque Converter Lock-up Issues:** The torque converter may not lock up, leading to higher RPMs at cruising speeds and reduced fuel economy, or it may remain locked up, causing stalling.

If you encounter these symptoms, it is recommended to have your vehicle diagnosed by a professional technician using appropriate diagnostic tools.

9. Specifications

Specification	Detail
Manufacturer	coolautocore
Brand	coolautocore
Model	Transmission Solenoid Kit Shift TCC EPC
Item Weight	2 pounds
Package Dimensions	4.96 x 4.92 x 3.74 inches
Item Model Number	4F50N AX4S AX4N
Exterior	Machined
Manufacturer Part Number	4F50N AX4S AX4N

10. Warranty and Support

For specific warranty information regarding your coolautocore 4F50N AX4S AX4N Transmission Solenoid Kit, please refer to the documentation provided with your purchase or contact the seller directly. Support for installation or troubleshooting beyond the scope of this manual should be sought from a qualified automotive professional.

11. Safety Information

Working on automotive systems, especially transmissions, involves potential hazards. Always observe the following safety precautions:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before working underneath it.
- Disconnect the vehicle's battery before performing any electrical work.
- Be aware of hot engine and transmission components and fluids.
- Dispose of old transmission fluid and parts according to local environmental regulations.
- If you are unsure about any procedure, consult a professional mechanic.

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