## POPSTORE A6MF1/2

# POPSTORE A6MF1/2 Transmission Valve Body with Solenoid Instruction Manual

Model: A6MF1/2 | Brand: POPSTORE

## 1. Introduction

This manual provides essential information for the proper handling, installation, and maintenance of your POPSTORE A6MF1/2 Transmission Valve Body with Solenoid. This component is a critical part of your vehicle's automatic transmission system, responsible for directing hydraulic fluid to engage and disengage gears. Adherence to these instructions is crucial for optimal performance and longevity of the part.

## 2. Compatibility

The A6MF1/2 Transmission Valve Body with Solenoid is designed for specific vehicle applications. Verify compatibility with your vehicle's make, model, and year before installation.

- Compatible with Hyundai and Kia vehicles equipped with 6-speed automatic transmissions.
- Part number: A6MF1/2 (also compatible with A6LF1/2/3 variants).




Image 2.1: Overview of the A6MF1/2 Valve Body, highlighting compatibility with Hyundai and Kia models.

## 3. Product Overview

The transmission valve body is a complex hydraulic control unit. It contains a series of channels, valves, and solenoids that regulate the flow of transmission fluid to control gear changes. The solenoids are electronically controlled actuators that open and close valves, directing fluid pressure to various clutch packs and bands within the transmission.

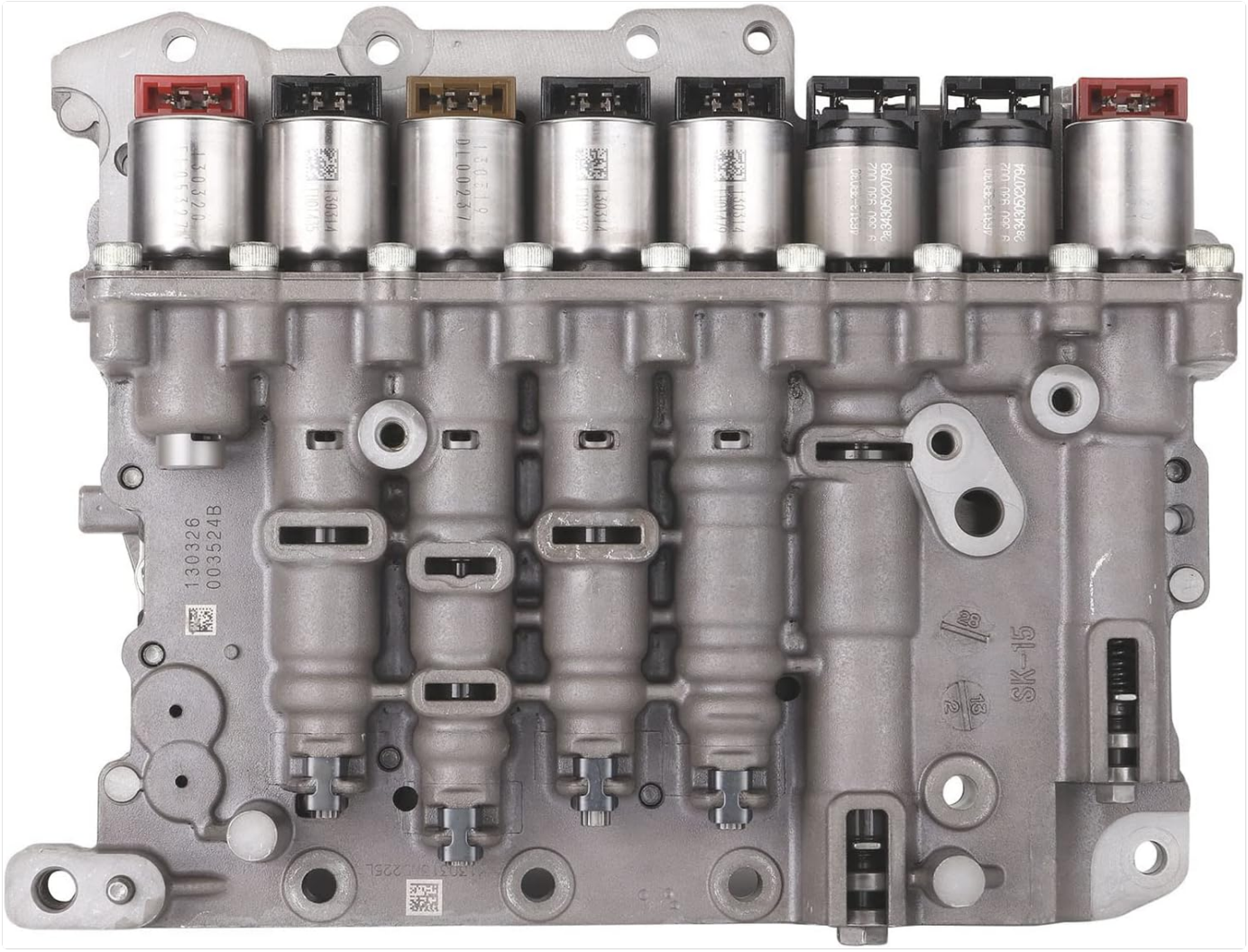



Image 3.1: Top view of the A6MF1/2 Transmission Valve Body, showing the arrangement of solenoids.

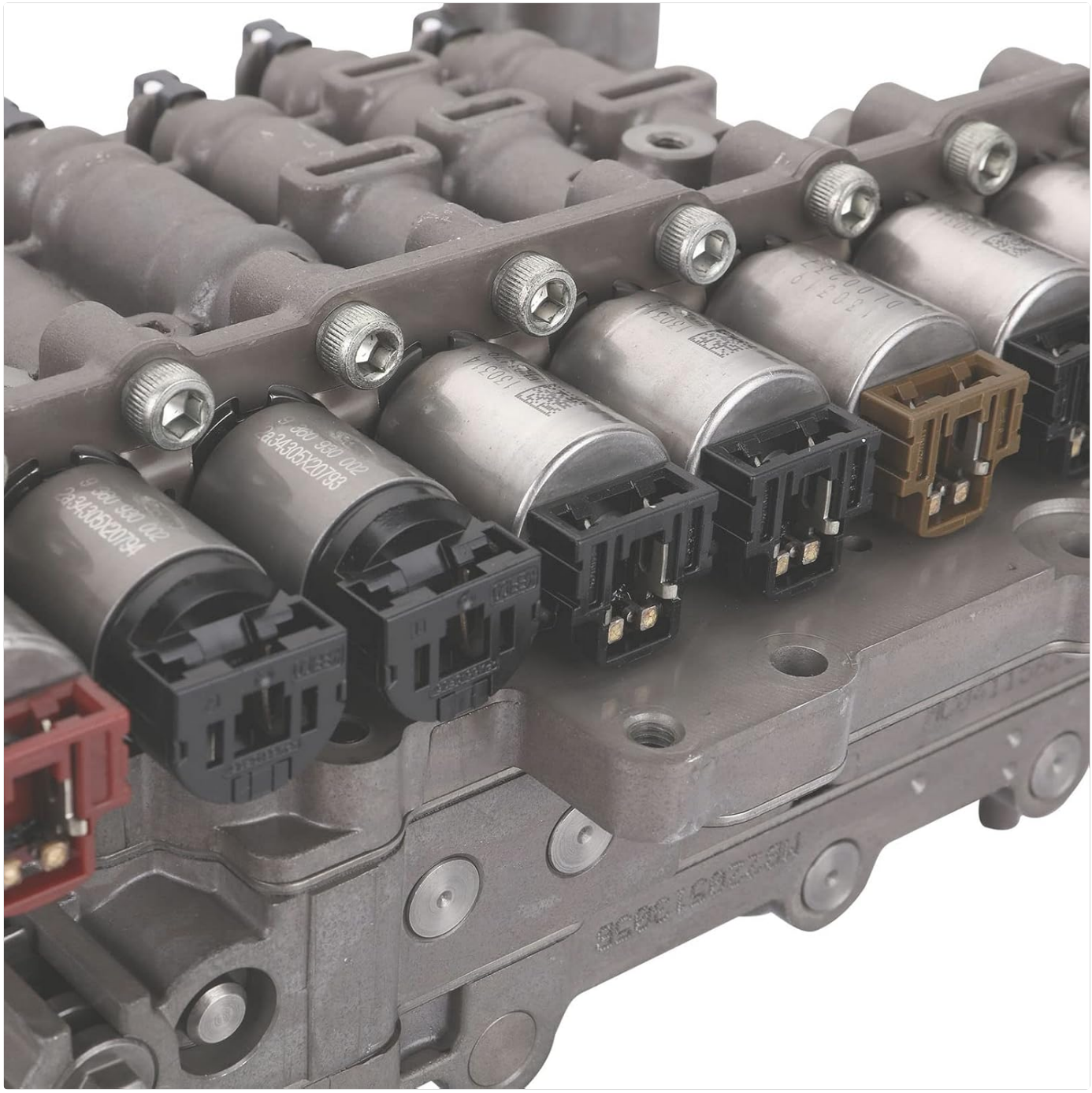


Image 3.2: Detailed view of the individual solenoids and their electrical connectors on the valve body.

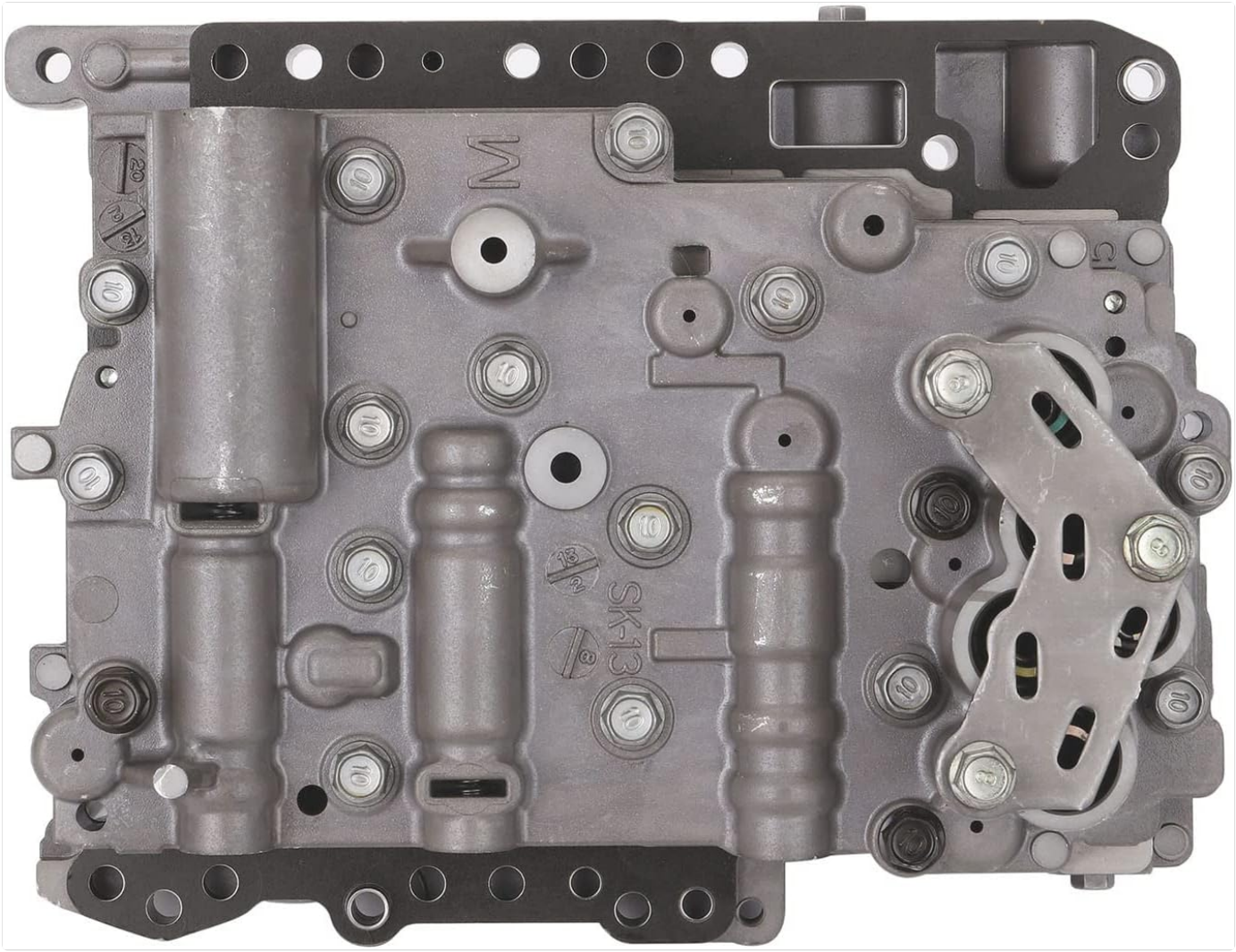



Image 3.3: Underside view of the A6MF1/2 Transmission Valve Body, showing fluid passages and mounting points.

## 4. Important Safety Information

Working with automotive transmissions involves specialized knowledge and tools. Improper installation can lead to severe damage to the transmission, vehicle, or personal injury. It is strongly recommended that installation be performed by a qualified and certified automotive technician.

- Always disconnect the vehicle's battery before beginning any work.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift.
- Allow the transmission to cool completely before servicing to prevent burns from hot fluid.
- Dispose of old transmission fluid and parts according to local environmental regulations.

## 5. Installation Guidelines

These guidelines provide a general overview. Refer to your vehicle's specific service manual for detailed, step-by-step instructions and torque specifications.

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and disconnect the negative battery terminal. Allow the transmission to cool.

2. **Drain Transmission Fluid:** Place a drain pan under the transmission and remove the drain plug (if equipped) or carefully loosen the transmission pan bolts to drain the fluid.
3. **Remove Transmission Pan:** Once the fluid is drained, remove all transmission pan bolts and carefully lower the pan. Be prepared for residual fluid.
4. **Remove Old Valve Body:** Disconnect any electrical connectors attached to the solenoids on the old valve body. Carefully unbolt and remove the old valve body, noting the position of any check balls or small components.
5. **Install New Valve Body:** Ensure all mating surfaces are clean. Carefully position the new POPSTORE A6MF1/2 valve body, ensuring all check balls and gaskets are correctly placed. Bolt the new valve body into place, tightening bolts to the manufacturer's specified torque. Reconnect all electrical connectors.
6. **Reinstall Transmission Pan:** Clean the transmission pan and replace the pan gasket with a new one. Reinstall the pan, tightening bolts to the specified torque.
7. **Refill Transmission Fluid:** Using the correct type and amount of transmission fluid specified by your vehicle manufacturer, refill the transmission.
8. **Initial Check and Test Drive:** Reconnect the battery. Start the engine and check the fluid level. Cycle through all gear positions while the vehicle is stationary. Perform a test drive, monitoring for proper shifting and any warning lights. Recheck fluid level after the test drive.

## 6. Operation

The A6MF1/2 Transmission Valve Body operates automatically as part of your vehicle's transmission system. It receives signals from the Transmission Control Module (TCM) and uses hydraulic pressure to facilitate smooth and precise gear changes based on driving conditions and driver input. There is no direct user interaction required with the valve body itself once installed correctly.

## 7. Maintenance

The longevity and proper function of your transmission valve body are directly linked to the overall health of your transmission. Regular maintenance is key:

- **Transmission Fluid:** Regularly check your transmission fluid level and condition. Ensure it is at the correct level and free from discoloration or burnt smell. Follow your vehicle manufacturer's recommended service intervals for transmission fluid and filter changes.
- **Fluid Type:** Always use the exact type of transmission fluid specified by your vehicle manufacturer. Using incorrect fluid can cause significant damage to the valve body and other transmission components.
- **Filter Replacement:** Replace the transmission filter whenever the fluid is changed to ensure clean fluid circulation.

## 8. Troubleshooting

If you experience transmission issues after installation or during normal operation, consider the following common symptoms that may indicate a valve body or solenoid problem. Always consult a qualified automotive technician for diagnosis and repair.

- **Harsh or Delayed Shifts:** The transmission shifts gears abruptly or takes an unusually long time to engage a gear.
- **Slipping Gears:** The engine revs up, but the vehicle does not accelerate proportionally, indicating the transmission is not fully engaging a gear.
- **No Engagement:** The transmission fails to engage any gear (Drive or Reverse).
- **Check Engine Light:** The Check Engine Light or Transmission Warning Light illuminates on the dashboard, often

accompanied by diagnostic trouble codes (DTCs) related to transmission solenoids or pressure.

- **Erratic Shifting:** Unpredictable gear changes or the transmission getting stuck in a particular gear.

These symptoms can also be caused by other transmission issues. Professional diagnosis is essential.

## 9. Specifications

| Specification | Detail |
|---|---|
| Part Number | A6MF1/2 (also A6LF1/2/3) |
| Brand | POPSTORE |
| Material | Aluminum |
| Exterior Finish | Aluminum |
| Inlet Connection Type | Flanged |
| Outlet Connection Type | Flange |
| Number of Ports | 2 |
| Item Weight | 14.27 pounds |
| Package Dimensions | 13.75 x 10.25 x 8 inches |
| UPC | 756839929424 |

## 10. Warranty and Support

For warranty information or technical support regarding your POPSTORE A6MF1/2 Transmission Valve Body, please contact the seller or manufacturer directly. Ensure you have your purchase details and product model number available when contacting support.


### Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

**Name**

Anonymous

**Email**

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**