

6R80

# Genuine OEM 6R80 Lead Frame Transmission Conductor Plate Control Module User Manual

Model: 6R80

## INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Genuine OEM 6R80 Lead Frame Transmission Conductor Plate Control Module. Please read this manual thoroughly before proceeding with any procedures to ensure proper function and safety.

The 6R80 Lead Frame is a critical component of your vehicle's transmission system, responsible for controlling gear shifts and overall transmission performance. This unit is a completely rebuilt and upgraded OEM part, designed to restore full functionality and prevent future issues.

## PRODUCT OVERVIEW





Figure 1: The Genuine OEM 6R80 Lead Frame Transmission Conductor Plate Control Module. This image displays the main component, highlighting its intricate design and electrical connections.

UPGRADED TO PREVENT  
FUTURE ISSUES



AN ORIGINAL OEM PART THAT  
HAS BEEN UPGRADED

RESTORE FULL FUNCTIONALITY  
WITH THIS COMPLETELY REBUILT  
AND UPGRADED LEAD FRAME.

Figure 2: An upgraded OEM 6R80 Lead Frame. This image illustrates that the component is an original OEM part that has undergone upgrades to enhance durability and prevent common issues.

The 6R80 Lead Frame is designed as a direct replacement for compatible Ford vehicles. It is a "Plug N Play" unit, meaning it is completely ready for installation upon arrival. Each unit is fully rebuilt with OE-spec or better components to ensure long-term reliability and performance.

## COMPATIBILITY

---

# COMPATIBLE WITH:

- 2011 – 2018 F150
- 2011 – 2017 Mustang
- 2012 – 2017 Navigator
- 2013 – 2017 Expedition
- 2015 – 2018 Transit (all variants)
- 2017 F-250 Super Duty

**Below is a list of part numbers that we offer:**

C108P – AL3P-7G276-(XX)  
“-AK” Variants“  
-AJ” Variants

Figure 3: Compatibility information for the 6R80 Lead Frame. This image lists the specific Ford vehicle models and model years that are compatible with this part.

This 6R80 Lead Frame is compatible with the following Ford vehicles:

- 2011 – 2018 Ford F150
- 2011 – 2017 Ford Mustang
- 2012 – 2017 Lincoln Navigator
- 2013 – 2017 Ford Expedition
- 2015 – 2018 Ford Transit (all variants)
- 2017 Ford F-250 Super Duty

Please verify your vehicle's make, model, and year against this list to ensure proper fitment.

## SETUP AND INSTALLATION

---

Installation of the 6R80 Lead Frame requires advanced mechanical knowledge and specialized tools. It is highly recommended that installation be performed by a certified automotive technician. Incorrect installation can lead to severe damage to the transmission and vehicle.

## Pre-Installation Checklist:

- Ensure the vehicle is safely lifted and secured.
- Drain transmission fluid according to manufacturer specifications.
- Have appropriate tools for transmission disassembly and reassembly.
- Confirm the new lead frame matches the old unit.

## Installation Steps (General Guidance - Consult Service Manual):

1. Disconnect the vehicle's battery.
2. Remove the transmission pan and filter.
3. Carefully disconnect electrical connectors and retaining bolts from the old lead frame.
4. Remove the old lead frame.
5. Install the new 6R80 Lead Frame, ensuring all connections are secure and bolts are torqued to manufacturer specifications.
6. Install a new transmission filter and gasket, then reattach the transmission pan.
7. Refill the transmission with the correct type and amount of fluid.
8. Reconnect the battery and perform any necessary diagnostic resets or programming as per vehicle manufacturer guidelines.

**Important:** This lead frame is designed to be "Plug N Play" but may require a transmission adaptive learning procedure or a quick learn procedure using a diagnostic scan tool after installation. Refer to your vehicle's specific service manual for detailed instructions.

## OPERATING CONSIDERATIONS

---

Once installed, the 6R80 Lead Frame operates as an integral part of your vehicle's transmission control system. Its function is automatic, managing gear shifts based on vehicle speed, engine load, and driver input.

### Post-Installation Operation:

- After installation and fluid refill, start the engine and allow it to reach operating temperature.
- Cycle through all gear positions (P, R, N, D, L) while the vehicle is stationary, pausing briefly in each position to allow fluid to circulate.
- Check for any leaks around the transmission pan.
- Perform a test drive to confirm proper shifting and operation. Pay attention to any unusual noises, delayed shifts, or warning lights.

The upgraded components within this lead frame are designed for optimal performance and longevity under normal driving conditions.

## MAINTENANCE

---

The 6R80 Lead Frame itself is a sealed electronic component and does not require routine maintenance. Its longevity is primarily dependent on the overall health and maintenance of your vehicle's transmission system.

### General Transmission Maintenance Recommendations:

- **Transmission Fluid:** Regularly check transmission fluid levels and condition. Replace fluid and filter at intervals recommended by your vehicle manufacturer. Using the correct type of transmission fluid is crucial.
- **Cooling System:** Ensure your vehicle's cooling system is functioning correctly to prevent transmission overheating,

which can damage internal components, including the lead frame.

- **Driving Habits:** Avoid aggressive driving, excessive towing beyond vehicle capacity, and prolonged idling in gear, as these can put undue stress on the transmission.

Adhering to your vehicle manufacturer's recommended maintenance schedule for the transmission will help ensure the optimal performance and lifespan of your new lead frame.

## TROUBLESHOOTING

---

If you experience issues after installing the 6R80 Lead Frame, consider the following common troubleshooting steps. Many transmission issues can be complex and may require professional diagnosis.

Symptom	Possible Cause	Solution
Delayed or Harsh Shifts	Low or incorrect transmission fluid level; Adaptive learning not completed; Faulty solenoid (less likely with new lead frame); Wiring issue.	Check fluid level and type. Perform adaptive learning procedure with scan tool. Inspect wiring connections.
Transmission Warning Light (MIL)	Diagnostic Trouble Code (DTC) present; Electrical connection issue; Internal transmission fault.	Scan for DTCs using an OBD-II scanner. Verify all electrical connections to the lead frame. Consult a professional technician.
No Engagement in Gear	Extremely low fluid level; Incorrect installation; Severe internal transmission damage.	Check fluid level immediately. Re-verify installation steps. Seek professional diagnosis.

If issues persist after basic troubleshooting, it is strongly recommended to consult a qualified automotive technician for a thorough diagnosis.

## SPECIFICATIONS

---

**Product Name:** Genuine OEM 6R80 Lead Frame Transmission Conductor Plate Control Module

**Model Number:** 6R80

**Part Type:** Transmission Conductor Plate / Lead Frame

**Condition:** Rebuilt OEM

**Compatibility:** Ford F150 (2011-2018), Mustang (2011-2017), Navigator (2012-2017), Expedition (2013-2017), Transit (2015-2018), F-250 Super Duty (2017)

**Manufacturer:** Circuit Board Medics

**Country of Origin:** USA

**What's in the Box:** 6R80 Lead Frame

## WARRANTY INFORMATION

---

This 6R80 Lead Frame comes with a **One Year Warranty** on the functionality of the lead frame.

**Warranty Activation:** To activate your warranty, you must participate in the Core Return program. Ship your old 6R80 lead frame back using the prepaid label provided in the box. Failure to return the core may void your warranty.

The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, accident, neglect, or unauthorized modifications.

## CORE RETURN PROGRAM

---

This product is part of an exchange listing. Participation in the core return program is required to receive a partial refund and activate your warranty.

# HOW THIS WORKS

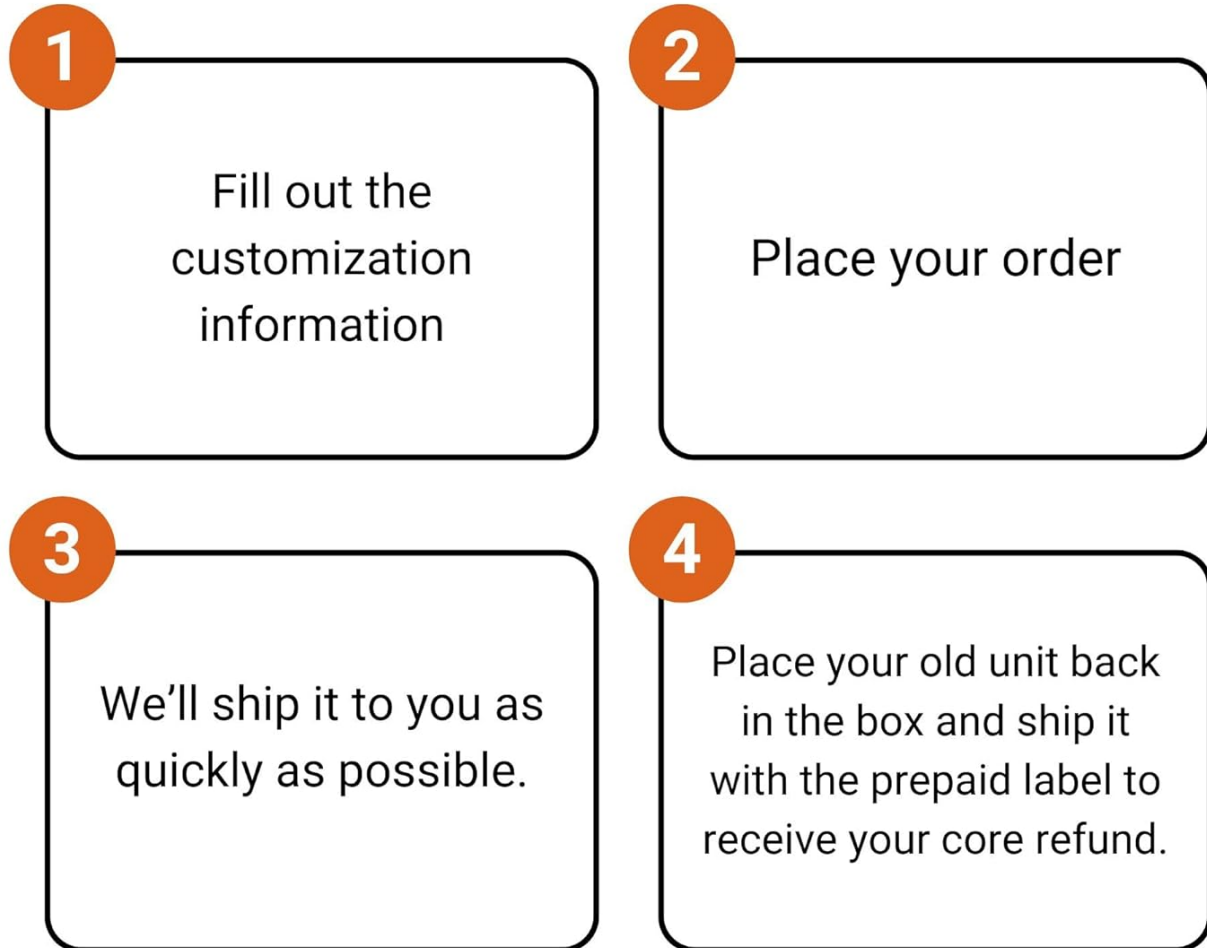


Figure 4: Diagram illustrating the core return process. It outlines the steps from placing an order to shipping back the old unit for a refund.

# IMPORTANT INFORMATION:

**CORE RETURN:** You will receive a prepaid shipping label in the box. Simply place your old lead frame in the box and ship it back to us for a partial refund of \$50 to your Amazon account.

Figure 5: Important information regarding the core return policy. This image emphasizes the requirement to return the old lead frame for a partial refund.

## Core Return Steps:

1. Upon receiving your new 6R80 Lead Frame, you will find a prepaid shipping label included in the box.
2. Carefully place your old 6R80 lead frame into the same box.
3. Affix the prepaid shipping label to the box.
4. Ship the package back to us.

Once your old lead frame is received and inspected, a partial refund of \$50 will be issued to your Amazon account. Please note that aftermarket modules or critically damaged modules will not be accepted for the partial refund.

## CUSTOMER SUPPORT

---

For technical assistance, warranty claims, or inquiries regarding the core return process, please contact the seller directly through your Amazon order details page.

**Seller:** Carolina\_Surplus

For general product information, you may refer to the product listing on Amazon.com.

