

0002749V001

GENERIC Engine ECM Control Module Smart FORTWO 0002749V001 Instruction Manual

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of the GENERIC Engine Control Module (ECM) for Smart FORTWO vehicles, part number 0002749V001. This ECM is a critical component responsible for managing various engine functions, including fuel injection, ignition timing, and emissions control. It is designed as a replacement unit for compatible Smart FORTWO models.

Part Number: 0002749V001

Compatibility: Smart FORTWO



Figure 1: Top view of the Engine ECM Control Module, showing its robust casing and connector ports.

2. SETUP AND INSTALLATION

Warning: Installation of an Engine Control Module is a complex procedure that requires specialized automotive knowledge, diagnostic tools, and programming equipment. Incorrect installation can lead to

severe vehicle damage or malfunction. It is highly recommended that this procedure be performed by a certified automotive technician.

2.1 Pre-Installation Steps

1. Ensure the vehicle's battery is disconnected to prevent electrical shorts or damage to electronic components.
2. Locate the existing ECM in your Smart FORTWO. Refer to your vehicle's service manual for the exact location.
3. Carefully disconnect all wiring harnesses from the old ECM. Note the orientation and position of each connector.

2.2 Installation Procedure

1. Mount the new GENERIC ECM in the same location as the old unit, ensuring it is securely fastened.
2. Reconnect all wiring harnesses to the new ECM. Ensure each connector clicks firmly into place.
3. Reconnect the vehicle's battery.



Figure 2: Detail of the ECM's multi-pin electrical connectors, which must be securely attached during installation.

2.3 Post-Installation Programming

After physical installation, the new ECM typically requires programming or "coding" to synchronize with the vehicle's immobilizer system, keys, and other onboard modules. This step is crucial for the vehicle to start and operate correctly. This programming must be performed using specialized diagnostic equipment by a qualified technician.

3. OPERATING THE ECM

The Engine Control Module operates automatically as an integral part of your vehicle's engine management system. Once properly installed and programmed, it continuously monitors various engine sensors and adjusts parameters such as fuel delivery, ignition timing, and idle speed to ensure optimal engine performance, fuel efficiency, and emissions control.

There are no user-operable controls on the ECM itself. Its function is entirely internal and responsive to the vehicle's operational demands.

4. MAINTENANCE

The GENERIC Engine ECM Control Module is designed to be a maintenance-free component. To ensure its longevity and reliable operation, observe the following general guidelines:

- **Protection:** Avoid exposing the ECM to excessive moisture, extreme temperatures, or physical impact.
- **Connections:** Periodically inspect the electrical connections for corrosion or looseness. Ensure they remain clean and dry.
- **Cleaning:** If necessary, gently clean the exterior of the ECM with a dry, soft cloth. Do not use harsh chemicals or abrasive materials.

5. TROUBLESHOOTING

If you experience issues that you suspect are related to the ECM, such as a "Check Engine" light illumination, engine starting problems, or noticeable changes in engine performance, it is crucial to seek professional assistance. Troubleshooting an ECM requires specialized diagnostic equipment and expertise.

5.1 Common Indicators of Potential ECM Issues

- Illumination of the "Check Engine" light on the dashboard.
- Engine failing to start or intermittent starting issues.
- Rough idling, stalling, or misfires.
- Poor fuel economy or reduced engine power.
- Transmission shifting problems (in some integrated systems).

5.2 Recommended Action

If any of these symptoms occur, consult a qualified automotive technician immediately. They can perform a diagnostic scan to retrieve fault codes and accurately diagnose the root cause of the problem. Attempting to repair or tamper with the ECM without proper knowledge and tools can cause further damage.

6. SPECIFICATIONS

The following specifications apply to the GENERIC Engine ECM Control Module 0002749V001:

Brand	GENERIC
Manufacturer	REUSED PARTS
Model Number	0002749V001 (also listed as 180071)
Item Model Number	0002749V001 Yes Used 590 8b537ccb-07
Manufacturer Part Number	180071
ASIN	B0GKCJL7SS
Compatibility	Smart FORTWO
Part Grade	A (as per donor vehicle description)
Stock Number	UTD774



Figure 3: Product label displaying key identification numbers such as 000 2749 V001, BOSCH 0 281 010 161, and 1039S14874. The number 0002749V0014874 is also visible on this label.

7. WARRANTY AND SUPPORT

Specific warranty terms for this GENERIC Engine ECM Control Module should be obtained directly from the seller or the manufacturer, REUSED PARTS. As this is often a replacement part, warranty conditions may vary.

For technical support, installation guidance, or troubleshooting assistance, please contact the seller from whom you purchased this product or a certified automotive technician specializing in Smart FORTWO vehicles.

Seller: Reused Parts LLC

Seller Link: [Reused Parts LLC on Amazon](#)