

89661-06200

# User Manual for Generic 1995 Toyota Camry Engine ECM Control Module

MODEL: 89661-06200

Brand: Generic

## 1. Introduction

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This manual provides essential information for the installation, operation, and maintenance of the Generic Engine Control Module (ECM) for the 1995 Toyota Camry. This ECM, part number 89661-06200, is a critical component for managing your vehicle's engine functions. Please read these instructions carefully before proceeding with installation or use.

## 2. Product Overview

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The Engine Control Module (ECM), also known as the Engine Control Unit (ECU), is the primary computer that controls the engine's performance. It monitors various sensors throughout the vehicle and uses this data to regulate fuel injection, ignition timing, idle speed, and other critical engine parameters to ensure optimal performance and emissions.



**Figure 1:** Overall view of the Generic 1995 Toyota Camry Engine ECM Control Module (Part Number 89661-06200).

This specific ECM is designed for the 1995 Toyota Camry with a 6-cylinder engine. It is a used, genuine OEM compatible part, identified by part number 8966106200 and inventory ID 174723.

### 3. Compatibility

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This Engine Control Module (ECM) is compatible with the following vehicle configurations:

- **CAMRY 95:** Electronic Control Module; (by glove box), 6 cylinder, DX trim
- **CAMRY 95:** Electronic Control Module; (by glove box), 6 cylinder, LE trim
- **CAMRY 95:** Electronic Control Module; (by glove box), 6 cylinder, XLE trim

It is crucial to verify that your vehicle matches these specifications to ensure proper function and avoid damage. Consult your vehicle's service manual or a qualified technician if you are unsure about compatibility.

### 4. Setup and Installation

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Installation of an Engine Control Module is a complex procedure that typically requires specialized tools and automotive knowledge. It is highly recommended that this component be installed by a certified automotive technician.

1. **Safety First:** Disconnect the vehicle's battery before beginning any electrical work to prevent short circuits or damage to electronic components.
2. **Locate the ECM:** For the 1995 Toyota Camry, the ECM is typically located by the glove box. Refer to your vehicle's service manual for the exact location.
3. **Disconnect Wiring:** Carefully disconnect all electrical connectors from the existing ECM. Note their

positions to ensure correct re-connection.

4. **Remove Old ECM:** Unbolt and remove the old ECM from its mounting bracket.
5. **Install New ECM:** Mount the replacement ECM (Part Number 89661-06200) into the vehicle.
6. **Connect Wiring:** Reconnect all electrical connectors securely to the new ECM. Ensure all connections are firm and correctly seated.
7. **Reconnect Battery:** Reconnect the vehicle's battery.
8. **Programming (if necessary):** Some ECMs may require programming or "re-learning" procedures after installation to synchronize with the vehicle's immobilizer system or other components. Consult a professional technician for this step.



**Figure 2:** Detailed view of the ECM label, showing the Toyota part number 89661-06200 and DENSO manufacturer information.



**Figure 3:** View of the ECM's connector ports, where the vehicle's wiring harness attaches.

## 5. Operating Principles

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Once correctly installed and, if necessary, programmed, the ECM operates automatically. It continuously monitors engine sensors (e.g., oxygen sensors, crankshaft position sensor, throttle position sensor) and adjusts engine parameters in real-time. This ensures the engine runs efficiently, produces appropriate power, and meets emissions standards.

- **Fuel Management:** Controls the amount of fuel injected into the engine cylinders.
- **Ignition Timing:** Determines when the spark plugs fire for optimal combustion.
- **Idle Speed Control:** Regulates the engine's idle speed.
- **Emissions Control:** Manages components like the EGR valve and catalytic converter for reduced emissions.
- **Diagnostic Functions:** Stores diagnostic trouble codes (DTCs) if a fault is detected, which can be retrieved using an OBD-II scanner.

## 6. Maintenance

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The ECM itself is a sealed electronic unit and typically requires no routine maintenance. However, its longevity and proper function depend on the overall health of the vehicle's electrical system and engine components.

- **Electrical System Integrity:** Ensure the vehicle's battery, alternator, and wiring harness are in good condition. Voltage fluctuations or poor grounds can damage electronic modules.
- **Avoid Water Exposure:** Keep the ECM area dry and free from moisture.
- **Professional Diagnostics:** If engine performance issues arise, have a qualified technician diagnose

the problem using appropriate diagnostic tools. Avoid attempting repairs or modifications to the ECM without expert knowledge.

## 7. Troubleshooting Common Issues

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If you experience issues after ECM installation or during vehicle operation, consider the following general troubleshooting steps. Always consult a professional technician for accurate diagnosis and repair.

| Symptom   | Possible Cause   | Action  |
|---|--|---|
| Engine cranks but does not start                          | Incorrect ECM programming, faulty wiring connection, fuel delivery issue, ignition system fault. | Verify all connections. Check for fuel pressure and spark. Have ECM programming checked by a technician.              |
| Check Engine Light (CEL) illuminated                      | Sensor malfunction, emissions system fault, internal ECM fault.                                  | Use an OBD-II scanner to retrieve diagnostic trouble codes (DTCs). Consult a technician for diagnosis based on codes. |
| Poor engine performance (e.g., rough idle, loss of power) | Sensor input issues, fuel system problems, ignition system problems, internal ECM fault.         | Check for vacuum leaks. Inspect spark plugs and ignition coils. Have a technician perform a comprehensive diagnostic. |
| Vehicle stalls unexpectedly                               | Intermittent electrical connection, sensor failure, fuel pump issue, internal ECM fault.         | Ensure all ECM connectors are secure. Check battery and charging system. Professional diagnosis is recommended.       |

**Important:** Do not attempt to open or repair the ECM yourself, as this can cause further damage and void any potential warranty.

## 8. Specifications

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- **Part Number:** 89661-06200 (also 8966106200)
- **Manufacturer Part Number:** 174723
- **Vehicle Compatibility:** 1995 Toyota Camry, 6-cylinder engine (DX, LE, XLE trims)
- **Condition:** Used
- **OEM Compatibility:** Yes, compatible with Genuine OEM
- **Brand:** Generic (Manufacturer: REUSED PARTS)
- **ASIN:** B0F5LG8NB7

## 9. Warranty and Support

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This product is sold by Reused Parts LLC. For specific warranty information, please refer to the seller's policies at the time of purchase. As this is a used automotive part, warranty terms may vary. For technical support or further inquiries, please contact the seller directly through the platform where the purchase was made.

Seller: [Reused Parts LLC](#)