

## ITCARDIAG IM118

# ITCARDIAG IM118 IMMO Emulator Instruction Manual

Model: IM118

## INTRODUCTION

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The ITCARDIAG IM118 IMMO Emulator is an advanced diagnostic tool designed for automotive professionals. It serves as an updated and more powerful version of the V96 emulator, offering solutions for various vehicle immobilizer systems, Electronic Control Units (ECUs), and other automotive electronic modules. This device facilitates tasks such as IMMO OFF procedures, ECU PIN code reading, EGS (Electronic Gearbox System) swaps, and resolving issues related to Electronic Steering Lock (ESL/ELV) modules and Transmission Control Unit (TCU) component protection.

This manual provides comprehensive instructions for the proper use, setup, and maintenance of your IM118 Emulator. Please read it thoroughly before operating the device to ensure safe and effective use.

## SAFETY INFORMATION

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### Important Safety Precautions:

- This device is intended for use by qualified automotive technicians. Improper use can lead to vehicle damage or personal injury.
- Always disconnect the vehicle's battery before connecting or disconnecting the emulator, unless specified otherwise by a particular procedure.
- Ensure all connections are secure and correct before powering on the device or the vehicle.
- Operate the device in a well-ventilated area.
- Keep the device away from moisture, extreme temperatures, and strong electromagnetic fields.
- Do not attempt to disassemble or modify the emulator. This will void the warranty and may cause damage.
- Refer to the vehicle manufacturer's service manual for specific procedures and warnings related to the vehicle's electronic systems.

## PRODUCT OVERVIEW

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The ITCARDIAG IM118 is a compact and versatile IMMO emulator. It features a robust design and comes with necessary wiring for connection to various vehicle ECUs. The device is designed to interface with specific vehicle

systems to perform advanced diagnostic and repair functions.



Image: The ITCARDIAG IM118 IMMO Emulator module with its multi-colored connecting wires. The module is black with a gold label displaying "IM118 IMMO EMULATOR" and "ITCARDIAG".



Image: A dual view showing the front of the ITCARDIAG IM118 IMMO Emulator with its label and connector, and the back of the module featuring the ITCARDIAG logo.

## SETUP

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The IM118 Emulator typically requires connection to a vehicle's ECU or specific wiring harnesses. While specific setup varies by application, general steps include:

1. **Identify Target System:** Determine the specific vehicle make, model, and the ECU or module you intend to work with.
2. **Consult Wiring Diagrams:** Always refer to the appropriate wiring diagrams for the vehicle and the IM118 Emulator to ensure correct connections. Incorrect wiring can cause damage.
3. **Prepare Connections:** Carefully strip wires if necessary and ensure clean, secure connections. The emulator's wiring harness is designed for direct connection to specific points on the ECU or vehicle wiring.
4. **Software (if applicable):** For certain advanced functions or updates, the emulator may require a connection to a computer running Windows 10. Ensure any necessary drivers or software are installed according to manufacturer instructions.
5. **Power On:** Once all connections are verified, power on the vehicle or the ECU system as required by the specific procedure.



Image: A gloved hand holding the ITCARDIAG IM118 IMMO Emulator module above several vehicle Electronic Control Units (ECUs), illustrating its application in ECU work.

## OPERATING INSTRUCTIONS

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The ITCARDIAG IM118 Emulator supports a wide range of applications. Below are detailed instructions for specific vehicle systems and functions. Always ensure correct wiring and follow safety guidelines.

### 1. BMW F-Series and E-Series (EGS Swap)

This program is designed for EGS (Electronic Gearbox System) swaps in BMW F-Series and E-Series vehicles equipped with 8HP automatic transmissions. This function allows for either an EGS-only swap or an EGS + other module swap. *Note: This function does not apply to BMW X3 (E83) models.*

- Identify the EGS module and its connections.
- Follow the specific wiring diagram for EGS swap procedures for your BMW model.
- Connect the IM118 Emulator according to the diagram.
- Perform the EGS swap procedure as per the emulator's software interface or specific instructions.

## 2. BMW E-Series (CAS-BUS) - ECU Replacement

This program facilitates the replacement of a damaged ECU in BMW E-Series (CAS-BUS) cars.

- Ensure the replacement ECU is compatible with the vehicle.
- Connect the IM118 Emulator to the vehicle's CAS-BUS system and the replacement ECU as per the wiring instructions.
- Use the emulator to adapt the replacement ECU to the vehicle's immobilizer system.

## 3. Nissan - Bosch EDC16CP33 IMMO OFF

Perform IMMO OFF procedure for Nissan vehicles equipped with Bosch EDC16CP33 ECUs.

- Locate the Bosch EDC16CP33 ECU in the Nissan vehicle.
- Connect the IM118 Emulator to the ECU following the specific wiring diagram for this application.
- Activate the IMMO OFF function through the emulator.

## 4. Continental EMS3160 (Renault Group) - Read ISK Values

This function allows reading of ISK (Individual Security Key) values from Continental EMS3160 ECUs found in Renault Group vehicles.

- Identify the Continental EMS3160 ECU.
- Connect the IM118 Emulator to the ECU as per the provided wiring instructions.
- Initiate the ISK value reading process.

## 5. PSA Group (IMMO OFF & PIN Code Reading)

Specifically designed for PSA Group vehicles, the IM118 Emulator enables IMMO OFF procedures and reading of ECU PIN codes for key coding or matching.

- **IMMO OFF:** Connect the emulator to the PSA Group ECU and activate the IMMO OFF function.
- **PIN Code Reading:** Connect the emulator to the ECU. The emulator will automatically determine the PIN code or replace the immobilizer signal, allowing for key programming.

## 6. Mercedes-Benz (ESL/ELV Module Repair)

This program addresses damaged Electronic Steering Lock (ESL/ELV) modules in Mercedes-Benz W176, W204, C207, W212, and W246 models.

- Identify the ESL/ELV module in the Mercedes-Benz vehicle.
- Connect the IM118 Emulator to the module or relevant vehicle wiring as per the specific repair procedure.
- Follow the instructions to repair or adapt the ESL/ELV module.

## 7. Continental SID807EVO - IMMO OFF

Perform IMMO OFF procedure for ECUs with Continental SID807EVO.

- Locate the Continental SID807EVO ECU.
- Connect the IM118 Emulator according to the specific wiring diagram.
- Activate the IMMO OFF function.

## 8. Toyota - Denso Diesel ECU IMMO OFF

This program enables IMMO OFF for Toyota vehicles equipped with Denso Diesel ECUs.

- Identify the Denso Diesel ECU in the Toyota vehicle.
- Connect the IM118 Emulator to the ECU as per the specific wiring instructions.
- Perform the IMMO OFF procedure.

## 9. VAG Group - TCU Component Protection Removal

This function allows for the removal of Component Protection from the Transmission Control Unit (TCU) in VAG Group cars, resolving issues such as transmission errors or gears not shifting.

- Locate the TCU in the VAG Group vehicle.
- Connect the IM118 Emulator to the TCU following the specific wiring diagram.
- Initiate the Component Protection removal process.

## 10. Toyota Auris (2006-2013) - Bosch EDC17CP37 IMMO OFF

Perform IMMO OFF for Toyota Auris models (2006-2013) equipped with Bosch EDC17CP37 ECUs.

- Identify the Bosch EDC17CP37 ECU in the Toyota Auris.
- Connect the IM118 Emulator to the ECU as per the specific wiring instructions.
- Activate the IMMO OFF function.

## 11. Nissan Note - Hitachi MEC37-650 IMMO OFF

This program enables IMMO OFF for Nissan Note vehicles equipped with Hitachi MEC37-650 ECUs.

- Locate the Hitachi MEC37-650 ECU in the Nissan Note.
- Connect the IM118 Emulator to the ECU following the specific wiring diagram.
- Perform the IMMO OFF procedure.

## MAINTENANCE

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Proper maintenance ensures the longevity and reliable operation of your ITCARDIAG IM118 Emulator.

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the emulator in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it in its original packaging or a protective case when not in use.
- **Cable Inspection:** Regularly inspect the connecting wires for any signs of damage, fraying, or corrosion. Replace damaged cables immediately.
- **Software Updates:** Check the official ITCARDIAG website or contact support for any available software or firmware updates to ensure optimal performance and compatibility with new vehicle systems.

## TROUBLESHOOTING

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If you encounter issues while using the ITCARDIAG IM118 Emulator, consider the following troubleshooting steps:

- **No Power/Device Not Responding:**
  - Verify all power connections are secure and correct.
  - Ensure the vehicle's battery is adequately charged.
  - Check for any blown fuses in the vehicle's electrical system relevant to the ECU or module being worked on.
- **Connection Errors:**

- Double-check all wiring connections against the specific diagram for your application.
  - Ensure wires are properly seated and not loose.
  - Inspect cables for damage.
- **Function Not Working as Expected:**
    - Confirm that the specific program on the IM118 Emulator is compatible with your vehicle's make, model, and ECU version.
    - Ensure all prerequisites for the procedure (e.g., vehicle ignition status, battery voltage) are met.
    - Refer to the detailed operating instructions for the specific function you are attempting.
- **Software Issues (if applicable):**
    - Ensure your operating system (Windows 10) is up to date.
    - Reinstall any necessary drivers or software for the emulator.
    - Temporarily disable antivirus software if it interferes with the emulator's software.
- **Persistent Problems:** If you continue to experience difficulties, please contact ITCARDIAG customer support for assistance. Provide detailed information about the vehicle, the specific function you are attempting, and the symptoms observed.

## SPECIFICATIONS

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<b>Brand</b>	ITCARDIAG
<b>Model</b>	IM118
<b>Manufacturer</b>	ITCARDIAG-Official
<b>Power Source</b>	Corded Electric
<b>Operating System Compatibility</b>	Windows 10 (for software interface, if applicable)
<b>Item Model Number</b>	IM118
<b>ASIN</b>	B0CG69C5TG

## WARRANTY AND SUPPORT

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ITCARDIAG is committed to providing high-quality products and customer satisfaction. While specific warranty details are not provided in this document, please retain your proof of purchase for any warranty claims. For technical support, troubleshooting assistance, or inquiries regarding product functionality and updates, please contact ITCARDIAG customer service. It is recommended to contact the seller directly for any issues or before making a purchase to clarify specific functionalities.

**Contact Information:** Refer to your purchase documentation or the official ITCARDIAG website for the most current support contact details.

