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› iCarsoft LR V3.0 Bidirectional OBD2 Scanner User Manual

iCarsoft Land Rover V3.0

iCarsoft LR V3.0 Bidirectional OBD2 Scanner User Manual

Model: Land Rover V3.0

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your iCarsoft LR V3.0 Bidirectional OBD2 Scanner. The device is designed for comprehensive vehicle diagnostics, offering full system scanning, bidirectional control, reset services, and battery testing for Land Rover and Jaguar vehicles. Please read this manual thoroughly before operating the device.

2. PRODUCT OVERVIEW

The iCarsoft LR V3.0 is an advanced diagnostic tool equipped with a range of features to assist in vehicle maintenance and troubleshooting. It supports full system diagnosis for over 270 systems, powerful bidirectional control, and more than 38 reset services. The device also includes full OBD2 functions, one-key automatic diagnostics, and Auto VIN identification.

iCarsoft LR V3.0

All-in-one tool for Land Rover & Jaguar owners

- Full System Diagnosis (270+ systems)
- Powerful Bi-directional Control
- Added to 38+ Reset Services
- Full OBD2 Functions
- One-key Automatic Diagnostics
- Auto VIN
- Lifetime Free Update
- Lifetime Free Hardware Repair



- | | |
|--------------------------------------|---|
| Display Camera Calibration Status | Add Additional Keys |
| Suspension System Height Calibration | In-depth Diagnosis |
| Rain Sensor Calibration | Dynamic Safety Belt Retract And Release |
| 5 Times Faster | More Stable Connection |
| 16GB | Active Damping Control Module - Calibration Learn |

Image: The iCarsoft LR V3.0 scanner, showcasing its capabilities for Land Rover and Jaguar owners, including full system diagnosis and various reset services.

2.1 Key Features

- **Full System Diagnosis:** Accesses and scans over 270 vehicle systems for fault codes.
- **Bidirectional Control:** Performs active tests to command vehicle components.
- **Reset Services:** Offers 38+ maintenance reset functions, including Oil Reset, EPB Reset, SAS Reset, and Battery Registration.
- **Full OBD2 Functions:** Supports all 10 OBD2 test modes for comprehensive engine diagnostics.
- **One-key Automatic Diagnostics:** Simplifies the diagnostic process.
- **Auto VIN:** Automatically identifies vehicle information.
- **Live Data Graphing:** Displays 118 graphic live data streams for real-time monitoring.
- **Battery Test:** Evaluates battery health and starting performance.
- **Multi-language Support:** Operates in 15 different languages.
- **Lifetime Free Update:** Ensures the software remains current.
- **Lifetime Free Hardware Repair:** Provides long-term support for the device.

2.2 Package Contents

Upon unboxing, verify that all items are present:



Image: The iCarsoft LR V3.0 package contents, showing the main scanner unit, cables, storage, and documentation.

- iCarsoft LR V3.0 Car Scanner
- Main OBD2 Cable
- PC Connecting Cable
- TF Card (pre-installed in the scanner)
- Card Reader
- User's Manual
- Nylon Carry Case

3. SETUP

Follow these steps to prepare your iCarsoft LR V3.0 scanner for first use.

3.1 Initial Device Power-Up

1. Connect the main OBD2 cable to the scanner's diagnostic port.
2. Locate the OBD2 port in your vehicle (typically under the dashboard on the driver's side).
3. Plug the OBD2 connector into the vehicle's OBD2 port. The scanner will power on automatically using the vehicle's electrical system.

3.2 Language and Unit Settings

After powering on, navigate to the 'Settings' menu to configure the device:

- Select 'Language' to choose your preferred operating language from the 15 available options.
- Adjust 'Unit of Measure' for data display (e.g., Celsius/Fahrenheit, PSI/Bar).
- Configure 'Buzzer' and 'Log' settings as desired.

3.3 Software Updates

The iCarsoft LR V3.0 offers lifetime free updates. Regularly updating the software ensures access to the latest vehicle models, diagnostic functions, and bug fixes.

1. Connect the scanner to a computer using the provided PC connecting cable.
2. Visit the official iCarsoft website (www.icarsoft.us) to download the update tool and latest software packages.
3. Follow the on-screen instructions of the update tool to install the new software onto your scanner's TF card.

3.4 Vehicle Compatibility Check

Before performing diagnostics, it is recommended to verify your vehicle's compatibility with the iCarsoft LR V3.0 scanner and its specific functions. This can be done via the official iCarsoft website.



Warm Tips

Image: Instructions for checking vehicle compatibility on the iCarsoft official website.

- ## 4. OPERATING INSTRUCTIONS

4.1 Full System Diagnosis

The scanner can perform an in-depth diagnosis of all available electronic control units (ECUs) in your vehicle.

Full Systems In-depth Diagnosis

Automatic in-depth diagnostics accurately pinpoint the fault cause



One-key automatic diagnosis,
all-round & quick body check for car,
give you detailed repair advice



Image: Visual representation of the full system in-depth diagnosis capability, covering numerous vehicle modules.

1. From the main menu, select 'Diagnostics'.
2. Choose your vehicle make (Land Rover or Jaguar).
3. Select 'Auto Scan' or manually select the system you wish to diagnose (e.g., Engine, ABS, Airbag, Transmission).
4. The scanner will read fault codes (DTCs) and display their descriptions.
5. You can then view freeze frame data or clear the fault codes after repairs are made.

4.2 Bidirectional Control (Active Tests)

Bidirectional control allows the scanner to send commands to vehicle components and monitor their operation, aiding in faster troubleshooting.

Full Bi-directional Tests

More Accurate and Faster Troubleshooting



Injector Test

Fuel Pump Test

Idle Air Control Valve Test

Ignition Coil Test

Abs Pump Motor Test

Ev-Ap Valve Test

Throttle Position Actuator Test

Cooling Fan Test

Hvac Test

A/C Compressor Test

Etc Actuator Test

Window Test

Headlight Test

Wiper Test

Door Lock Test

Horn Test

More...

Important notice: Due to differences in protocols and unique systems/ECUs across vehicle models, not all test listed are available. Please contact us to confirm compatibility for specific functions before purchase.

Image: The scanner performing bidirectional tests, demonstrating its ability to send commands and receive feedback from vehicle systems.

1. From the 'Diagnosis' menu, select 'Active Test' or 'Bidirectional Control'.
2. Choose the specific component or system you wish to test (e.g., Injector Test, Fuel Pump Test, Cooling Fan Test, Door Lock Test, Window Test).
3. Follow the on-screen prompts to activate the component and observe its response.

4.3 Reset Services

The LR V3.0 offers numerous reset functions to perform maintenance and calibration tasks after component replacement or service.

37+ Hot Reset Services

Make cars function properly and keep its optimal state after components replacement

- | | |
|---------------------|-------------------------|
| ▶ Oil reset | ▶ ABS bleeding |
| ▶ EPB reset | ▶ Injector coding |
| ▶ ETC reset | ▶ TPMS reset |
| ▶ DP-filter reset | ▶ Battery registration |
| | |
| ▶ SPS reset | ▶ ECM reset |
| ▶ ACS reset | ▶ TCM reset |
| ▶ LAP reset | ▶ SIT reset |
| ▶ BSC reset | ▶ DWR reset |
| | |
| ▶ IDL reset | ▶ E-G-R Service |
| ▶ Airbag Reset | ▶ ODO(Odometer Service) |
| ▶ SAS calibration | ▶ MIS(Miscellaneous) |
| ▶ DOR(Door Service) | |

Below Services Need to Update the Scanner (Lifetime Free Update)

- | | |
|------------------------------|----------------------|
| ▶ RAN(Rain Sensor) | ▶ ADB(AdBlue) |
| ▶ TBC(Turbocharger) | ▶ CLT(Clutch) |
| ▶ HUD(Head-Up Display) | ▶ BLT(Seat Belt) |
| ▶ LGG(Language Setting) | ▶ CST(Crankshaft) |
| ▶ SLA(Speed Limit Assist) | ▶ IRS(Radar/Camera) |
| ▶ CSO(Cylinder Shutoff Test) | ▶ O2S(Oxygen Sensor) |
| ▶ HBT(High Voltage Battery) | |



Important notice: Due to differences in protocols and unique systems/ECUs across vehicle models, not all services listed are available. Please contact us to confirm compatibility for specific functions before purchase.

Image: The scanner's menu showing a comprehensive list of reset services available for vehicle maintenance.

Commonly used reset functions include:

- Oil Reset
- Electronic Parking Brake (EPB) Reset
- Steering Angle Sensor (SAS) Reset
- Battery Registration
- ABS Bleeding
- Throttle Position Sensor (ETC) Reset
- Diesel Particulate Filter (DPF) Regeneration
- Tire Pressure Monitoring System (TPMS) Reset

Professional special functions include Powertrain configuration reset, Suspension height calibration, Rain sensor calibration, Active damping control module calibration, and various key services.

1. From the main menu, select 'Service'.
2. Choose the desired reset function from the list.
3. Follow the on-screen instructions to complete the procedure. Ensure all safety precautions are observed.

4.4 Battery Test

The battery test function assesses the vehicle's battery health and starting capabilities.

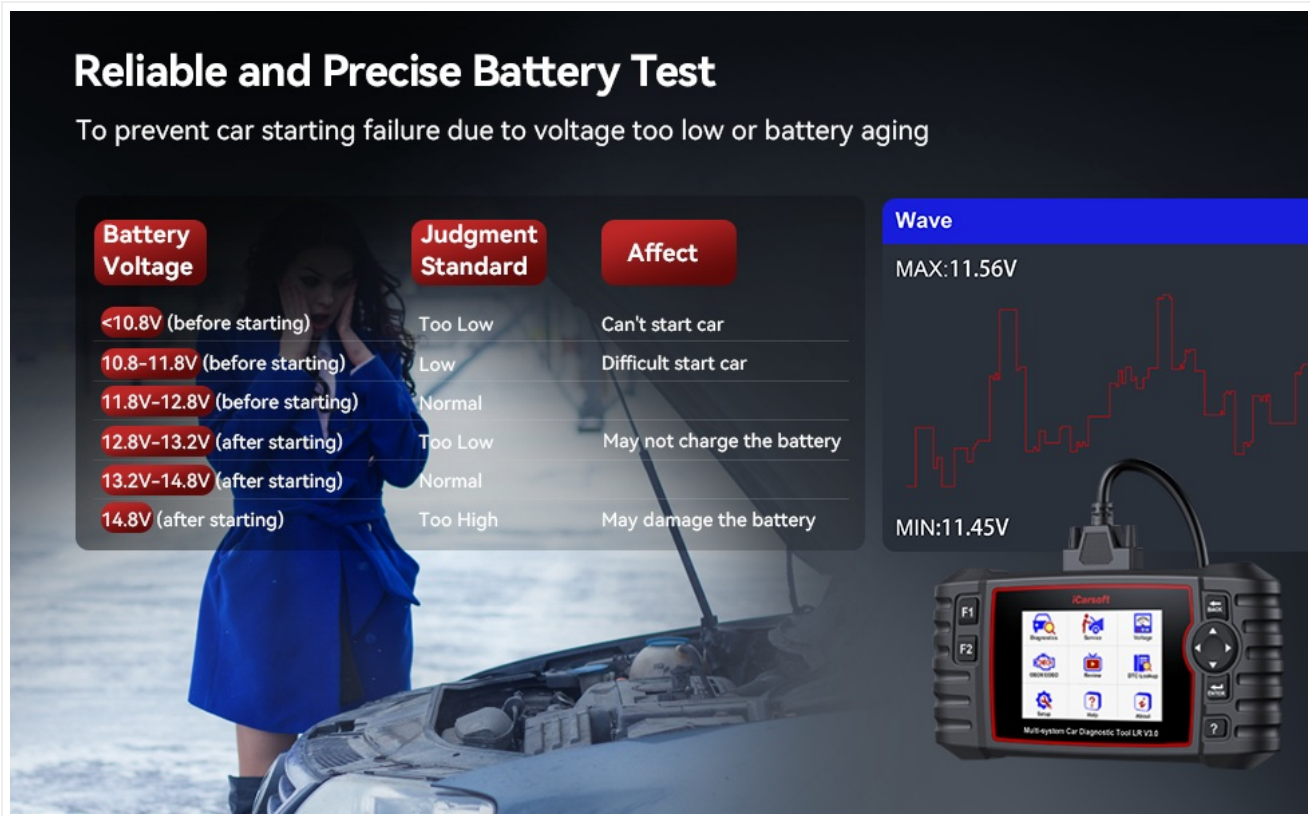


Image: The scanner's battery test interface, displaying voltage readings and judgment standards.

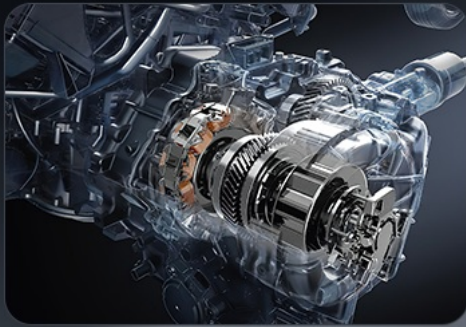
1. From the main menu, select 'Battery Test'.
2. Follow the prompts to perform the test. The scanner will display the battery voltage and a judgment of its condition (e.g., Too Low, Low, Normal, Too High).
3. Refer to the on-screen guidance for interpreting results and potential actions.

4.5 Live Data Graphing

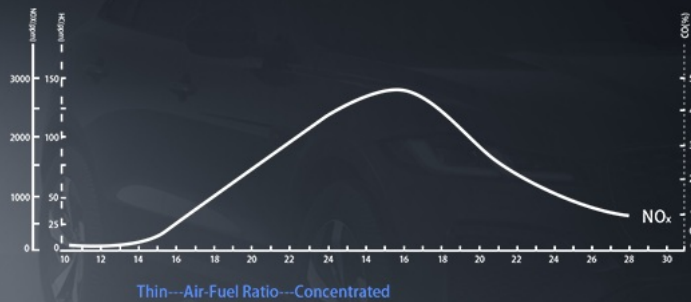
Monitor real-time sensor data in a graphical format to identify performance issues or verify repairs.

118 Graphic Live Data Checking Performance

Keep top performance, worry free driving



There are many possibilities that causes transmission light to come on. And the live data will help you verify which part is abnormal



Monitor fuel combustion efficiency and reduce fuel cost

Image: Live data graphing feature, showing real-time vehicle parameters for analysis.

1. After a diagnosis, select 'Live Data' or 'Data Stream'.
2. Choose the parameters you wish to monitor.
3. Select 'Graph' to view the data graphically. This can help identify intermittent issues or abnormal sensor readings.

4.6 Data Record and Playback

The scanner allows you to record live data sessions for later review and analysis.

- During a live data session, select the 'Record' option.
- To review recorded data, navigate to 'Diagnostic History' or 'Data Playback' from the main menu.

4.7 Print and Share

Diagnostic reports can be printed or shared for documentation or further consultation.

- Connect the scanner to a computer with the PC connecting cable.
- Use the iCarsoft PC software to retrieve and print diagnostic reports.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your iCarsoft LR V3.0 scanner.

5.1 Cleaning the Device

- Use a soft, damp cloth to clean the scanner's screen and casing.
- Avoid using abrasive cleaners or solvents that could damage the device.
- Ensure the device is powered off and disconnected from any power source before cleaning.

5.2 Storage

- Store the scanner in its provided nylon carry case when not in use to protect it from dust, moisture, and physical damage.
- Keep the device in a cool, dry place, away from direct sunlight and extreme temperatures.

5.3 Software Maintenance

Regularly update the scanner's software as described in Section 3.3 to ensure it has the latest vehicle data and diagnostic capabilities.

6. TROUBLESHOOTING

This section addresses common issues you might encounter.

6.1 Device Not Powering On

- Ensure the OBD2 cable is securely connected to both the scanner and the vehicle's OBD2 port.
- Check the vehicle's battery. The scanner draws power from the vehicle.
- Verify the vehicle's ignition is in the 'ON' position (engine off or running, depending on the test).

6.2 Communication Errors

- Confirm the OBD2 cable is not damaged and is properly connected.
- Ensure the vehicle's ignition is on.
- Verify that the scanner's software is up to date.
- Check vehicle compatibility on the iCarsoft official website (refer to Section 3.4).

6.3 Inaccurate or Missing Data

- Ensure the correct vehicle model and year are selected in the scanner's menu.
- Perform a software update to ensure the latest diagnostic protocols are installed.
- Some functions may not be supported on all vehicle models or ECUs due to differences in protocols. Consult the compatibility list on the official website.

6.4 Device Freezes or Responds Slowly

- Restart the scanner by disconnecting and reconnecting it from the vehicle.
- Ensure the TF card is properly inserted and not corrupted.
- Perform a software update.

7. SPECIFICATIONS

Feature	Specification
Model Number	Land Rover V3.0
Dimensions (L x W x H)	26.19 x 19.1 x 6.71 cm (10.31 x 7.52 x 2.64 inches)
Weight	789.25 grams (1.74 pounds)
Power Source	Vehicle OBD2 port (Electrical cable)

Feature	Specification
Internal Storage	16GB (TF Card)
Supported Languages	15
UPC / GTIN	850030851727

8. WARRANTY AND SUPPORT

iCarsoft is committed to providing high-quality products and customer service.

8.1 Warranty Information

- The iCarsoft LR V3.0 scanner comes with a **1-year hardware warranty**.
- **Lifetime Free Hardware Repair** is provided for the device.

8.2 Software Updates

- Enjoy **Lifetime Free Software Updates** to keep your scanner's diagnostic capabilities current with new vehicle models and functions.

8.3 Technical Support

- iCarsoft offers **24/7 quick response** from professional engineers for any technical inquiries or support needs.
- For support, please contact: sales@icarsoft.us