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› iCarsoft LR V4.0 Full System Bidirectional Diagnostic Scan Tool User Manual

iCarsoft LR V4.0

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Model: LR V4.0

INTRODUCTION

This manual provides instructions for the iCarsoft LR V4.0 Full System Bidirectional Diagnostic Scan Tool. This device is designed for comprehensive diagnostics and maintenance services for Land Rover and Jaguar vehicles, with the option to add two additional vehicle groups. It features a 5-inch LCD touchscreen, a 1.3GHz quad-core CPU, 32GB memory, and supports CAN FD protocol.

For optimal performance and to ensure proper use, please read this manual thoroughly before operating the device.

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Video: Overview of the iCarsoft LR V4.0 Bidirectional Diagnostic Scan Tool. This video provides a general introduction to the device's capabilities and interface.

PACKING LIST

Verify that all items are present in the package:

- Main Unit (Diagnostic Tablet)
- Carry Case
- Multi-Language User Manual
- USB-C Cable
- OBD2 Main Cable (16-pin)

Reasons to Choose LR V4.0

 		
Feature	LR V4.0	LR V3.0
Vehicle Coverage	Jaguar / Land Rover + 2 free vehicle make groups	Jaguar / Land Rover
Display Size	5"	4"
Interaction	Touchscreen	Physical buttons
System Access	Full systems	Full systems
Update Method	Wi-Fi	USB
SAS Reset	✓	✓
BMS Reset	✓	✓
TPMS Reset	✓	✓
ABS Bleeding	✓	✓
Oil Service Reset	✓	✓
DPF Regeneration	✓	✓
Injector Coding	✓	✓
Free Lifetime Updates	✓	✓
EPB / Brake-Pad Reset	✓	✓
Bi-directional / Active Test	✓	✓
Electronic Throttle Control	✓	✓
32 High-Level Service Functions	✓	✓

Image: Contents of the iCarsoft LR V4.0 package, including the main unit, carry case, user manual, USB-C cable, and OBD2 main cable.

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Video: Unboxing of the iCarsoft LR V4.0 Bidirectional Diagnostic Scan Tool. This video demonstrates the contents of the product package.

Note: Use your existing USB-C charger (5V/2A recommended) or a computer's USB port for charging. A dedicated charger is not included to reduce waste.

SETUP

1. **Charge the Device:** Connect the USB-C cable to the diagnostic tool and a compatible 5V/2A USB

charger or computer USB port. Ensure the device is fully charged before first use.

2. **Power On:** Press and hold the power button to turn on the device.
3. **Initial Configuration:** Follow the on-screen prompts to select your language, time zone, and connect to a Wi-Fi network for updates.
4. **Software Update:** Navigate to the "Update" section on the main menu. Connect to Wi-Fi and download the latest software for your device. This ensures access to the most current vehicle coverage and functions.
5. **Download Vehicle Groups:** The device comes pre-installed with software for Land Rover and Jaguar. You can download two additional vehicle groups from a selection of 26 available options. Once downloaded, these cannot be changed.

Upto 38 Reset Services for Jaguar / Land Rover

Make cars function properly and keep its optimal state after components replacement.
(2 Additional vehicle groups contain different reset services. Please refer to the function list for details)



Body Stability
Control



ABS
Bleeding



Injector
Coding



Air
Conditioner



AdBlue



Important Tip

Not all listed services are available,
vary by models



BMS
Reset



EPB
Reset



Oil
Reset



TPMS
Reset

illustrates the pre-installed Jaguar/Land Rover software and two slots for free downloads.

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Video: Demonstration of the AutoVIN service on the iCarsoft LR V4.0 Diagnostic Tool. This video shows how the device automatically identifies vehicle information.

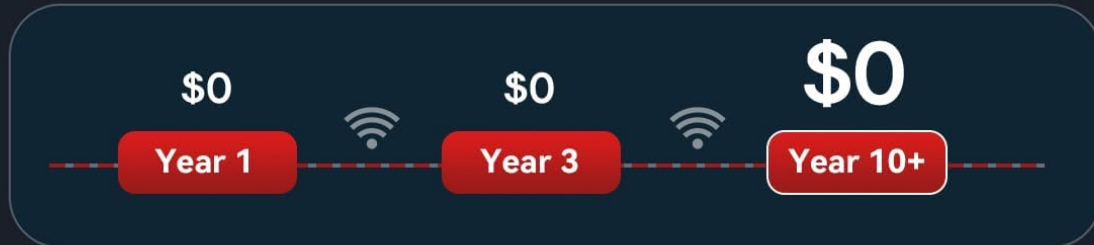
OPERATING INSTRUCTIONS

1. Connecting to the Vehicle

1. Locate the vehicle's OBD-II port, typically under the dashboard on the driver's side.
2. Connect the 16-pin OBD2 Main Cable to the vehicle's OBD-II port and to the iCarsoft LR V4.0 device.
3. Turn the vehicle's ignition to the "ON" position (engine off).
4. The device will automatically power on and attempt to establish communication with the vehicle.

Lifetime Free Software Upgrades

Unlike other OBD scan tools on the market that require annual subscription fees, the LR V4.0 offers lifetime free software upgrades. Updates are delivered wirelessly via Wi-Fi, with new diagnostic protocols and vehicle model coverage continuously released



Pay Once. Upgrade Forever 

Supports the Latest CAN-FD Protocol

CAN-FD (Controller Area Network – Flexible Data-rate) is a next-generation automotive communication protocol adopted by Jaguar / Land Rover



Supports Jaguar / Land Rover
CAN-FD protocol



Image: Illustration of the iCarsoft LR V4.0 connected to a vehicle's OBD-II port, performing full system diagnostics. The image shows the device displaying diagnostic data and various system icons.

2. Full System Diagnostics

The LR V4.0 can perform in-depth diagnostics on all vehicle systems, including Engine, ABS, Airbags, Transmission, and more complex systems. This function allows you to:

- **Read and Clear Fault Codes:** Identify and erase Diagnostic Trouble Codes (DTCs) from various control modules.
- **Read ECU Information:** Retrieve detailed information about the Electronic Control Units.
- **Read Live Data:** View real-time data streams from vehicle sensors and components in text or graph format (up to 118 data streams).
- **Freeze Frame Data:** Capture a snapshot of vehicle conditions when a fault code was set.

3. Bi-directional Control (Active Test)

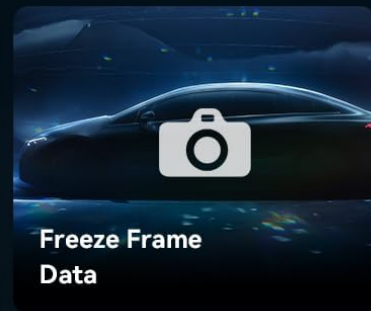
This feature allows the scan tool to send commands to vehicle components and systems to test their functionality. This helps in quickly pinpointing faulty components.

Examples of actuation tests include:

- Injector test
- Fuel pump activation
- Idle air control valve test
- ABS pump motor cycling
- Cooling fan activation
- Window, headlight, wiper, door lock, and horn tests

Powerful Full Systems Diagnostics

In addition to the four standard systems (Engine, ABS, Airbags, and Transmission), the LR V4.0 provides diagnostic coverage for more complex vehicle systems



Auto Scan	
Porsche Stability Management	Pass
Airbag	Pass
Instrument cluster	Fault (3)
Air conditioning	Pass
Tyre Pressure Monitoring	Scanning... (8%)
Report Quick Erase Pause	

Image: The iCarsoft LR V4.0 performing an in-depth actuation test, showing various components like car lights, mirrors, and exhaust flap being tested. The device screen displays active test options.

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Video: Demonstration of the iCarsoft LR V4.0 Diagnostic Tool performing a bidirectional test. This video illustrates how the tool can send commands to vehicle components.

4. Service Functions (Resets)

The LR V4.0 supports up to 38 maintenance services for Land Rover and Jaguar, and varying numbers for other downloaded vehicle groups. Key services include:

- Oil Reset
- Steering Angle Sensor (SAS) Calibration
- Electronic Parking Brake (EPB) Reset
- Electronic Throttle Control (ETC) Reset
- Diesel Particulate Filter (DPF) Regeneration
- ABS Bleeding
- Injector Coding
- Tire Pressure Monitoring System (TPMS) Reset
- Battery Management System (BMS) Reset
- Air Conditioner Service
- Head Lamp Service
- Body Stability Control Service
- VIN Verification
- Mileage Verification

Note: Not all listed services are available for all vehicle models or ECUs. Consult the device's function list for specific compatibility or contact support with your VIN and required service.

In-Depth Actuation Test

More Accurate and Faster Troubleshooting (For Land Rover
/ Jaguar and other 2 vehicle groups you downloaded)



Car Lights



Car Mirrors



Exhaust Flap

BI-DIRECTIONAL (ActiveTest)



Cycle the ABS
pump motor



Command
window regulators



Kick on
the fuel pump



Trigger door locks
and side mirrors



Modulate
throttle opening



Run dynamic
output tests

More

...



Image: Visual representation of various reset services available on the iCarsoft LR V4.0, including Body Stability Control, ABS Bleeding, Injector Coding, Air Conditioner, AdBlue, BMS Reset, EPB Reset, Oil Reset, and TPMS Reset.

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Video: Demonstration of ABS Bleeding using the iCarsoft LR V4.0. This video shows a specific service function in action.

5. OBD2 Functions

The device provides standard OBD2 functions for all OBD2 compliant vehicles:

- Read & Clear Codes
- Read Freeze Frame Data
- Live Data Stream (118 parameters)
- Turn off Malfunction Indicator Lamp (MIL)

- DTC Library lookup
- I/M Readiness Status
- O2 Sensor Test
- EVAP System Test
- On-Board Monitoring Test

MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Avoid abrasive cleaners or solvents.
- **Storage:** Store the device in its carry case in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Software Updates:** Regularly connect the device to Wi-Fi and check for software updates to ensure optimal performance and the latest vehicle coverage. Updates are free for life.
- **Battery Care:** For long-term storage, ensure the battery is charged to approximately 50%. Recharge periodically if stored for extended periods.

TROUBLESHOOTING

Device does not power on:

Ensure the device is fully charged. Connect it to a power source using the USB-C cable. If connected to the vehicle, ensure the vehicle's ignition is in the "ON" position.

Communication error with vehicle:

- Verify the OBD2 cable is securely connected to both the device and the vehicle's OBD-II port.
- Ensure the vehicle's ignition is "ON" (engine off).
- Check if the vehicle is OBD2 compliant (most vehicles manufactured after 1996 in the US, 2001 in Europe for gasoline, 2004 for diesel).
- Try the device on a different compatible vehicle to rule out a vehicle-specific issue.

Specific service function not available or incompatible:

- Not all vehicle models are equipped with all ECUs or support all listed reset services.
- Ensure your device software is up to date.
- For compatibility concerns, provide your vehicle's VIN and the desired service to iCarsoft support for verification.

Device freezes or operates slowly:

- Restart the device.
- Ensure sufficient battery charge.
- Perform a software update.

SPECIFICATIONS

Feature	Detail
Brand	iCarsoft
Model Number	LR V4.0 - BY
Power Source	Battery Powered
Operating System	Android
Screen Size	5 Inches
CPU	1.3GHz Quad-Core
Memory	32GB
Battery Capacity	5000mAh
Supported Protocols	CAN FD, OBD2 standard protocols
Vehicle Fit Type	Vehicle Specific Fit (Land Rover, Jaguar, +2 additional groups)
UPC	810192672004

Comparison with LR V3.0



Image: A comparison table highlighting the differences between iCarsoft LR V4.0 and LR V3.0, detailing features like vehicle coverage, display size, interaction, system access, update method, and supported service functions.

WARRANTY AND SUPPORT

The iCarsoft LR V4.0 comes with a **1-year warranty** from the date of purchase, covering manufacturing defects.

Lifetime Free Software Updates: The device offers lifetime free software updates. Connect the device to Wi-Fi to download the latest diagnostic protocols and vehicle model coverage as they are released.

For technical assistance, compatibility checks (VIN and required service), or warranty claims, please contact iCarsoft customer support. Refer to the official iCarsoft website for contact information.

