

Avital 4115L

Avital 4115L Avistart Remote Start System User Manual

Model: 4115L

1. INTRODUCTION

This manual provides essential information for the proper use and maintenance of your Avital 4115L Avistart Remote Start System. Please read this manual thoroughly before operating the system to ensure safe and efficient use.

2. SAFETY INFORMATION

Important Safety Warnings:

- **Professional Installation Recommended:** Installation of this remote start system should be performed by a qualified automotive electronics technician. Improper installation can lead to vehicle damage, electrical issues, or personal injury.
- **Vehicle in Park/Neutral:** Always ensure your vehicle is in Park (automatic transmission) or Neutral (manual transmission, with proper safety precautions) before engaging the remote start function.
- **Exhaust Fumes:** Never remote start your vehicle in an enclosed space, such as a garage, due to the risk of carbon monoxide poisoning.
- **Children and Pets:** Do not leave children or pets unattended in a vehicle that has been remote started.
- **Maintenance:** Regularly check your vehicle's battery and electrical system to ensure proper operation of the remote start system.

3. PACKAGE CONTENTS

The Avital 4115L Avistart Remote Start System package typically includes:

- Avital 4115L Control Module
- Two (2) 1-Button Remote Controls

- Wiring Harnesses
- User Manual (this document)
- Installation Guide (for professional installers)



Image: Avital 4115L Avistart Remote Start System components, including the main control unit and two 1-button remote controls.

4. KEY FEATURES

The Avital 4115L Avistart Remote Start System offers the following features:

- **Virtual Tach:** A dedicated A-to-D converter samples your vehicle's voltage hundreds of times each second, eliminating the need for a tachometer wire connection. This simplifies installation and improves reliability.
- **D2D Serial Data Port:** Quickly connects your Avital system to other interface devices via a D2D cable, facilitating integration with various vehicle systems.
- **XCR Onboard Relays:** Extreme capacity remote start relays are built-in to Avital remote start systems, providing robust and reliable power handling for vehicle starting functions.
- **Two 1-Button Controls:** Includes two compact 1-button remote controls for convenient operation.

5. SETUP AND INSTALLATION

The Avital 4115L Avistart Remote Start System requires professional installation. Due to the complexity of modern vehicle electrical systems and the critical safety aspects of remote starting, installation should only be performed by a certified automotive electronics technician.

Key aspects of installation include:

- Wiring the control module to the vehicle's ignition, starter, and accessory circuits.
- Connecting to the vehicle's data bus (if applicable) via the D2D port.
- Programming the system to recognize the vehicle's immobilizer or transponder key system (may require additional modules).
- Mounting the control module securely and routing wiring safely.
- Testing all functions thoroughly before vehicle delivery.

Refer to the detailed installation guide provided with the product for specific wiring diagrams and programming instructions, intended for professional installers.

6. OPERATING INSTRUCTIONS

Your Avital 4115L system comes with two 1-button remote controls. The single button on the remote performs multiple functions based on how it is pressed.

6.1 Remote Starting Your Vehicle

1. Ensure the vehicle is in Park (automatic transmission) or Neutral with the parking brake engaged (manual transmission, if configured for this).
2. Press and hold the button on your 1-button remote control for approximately 3 seconds.
3. The vehicle's parking lights will flash, and the engine will start. The vehicle will run for a pre-set duration (typically 10 or 15 minutes).
4. To turn off the vehicle remotely, press and hold the button again for approximately 3 seconds.

Note: The remote start function will not engage if the hood is open, the brake pedal is pressed, or the vehicle's check engine light is on.

6.2 Entering the Vehicle After Remote Start

1. Unlock the vehicle using your factory remote or key.
2. Enter the vehicle. Do NOT press the brake pedal yet.
3. Insert your key into the ignition and turn it to the "ON" or "RUN" position (do not turn to "START").
4. Press the brake pedal. The remote start system will disengage, and the vehicle will now be operating under key control.

6.3 Remote Control Battery Replacement

When the remote control's range decreases significantly, it may be time to replace the battery. Refer to the remote control's specific instructions for battery type and replacement procedure. Typically, this involves opening the remote casing and replacing a coin-cell battery.

7. MAINTENANCE

The Avital 4115L Avistart Remote Start System is designed for minimal maintenance. Follow these guidelines to ensure longevity:

- **Remote Control Care:** Keep remote controls dry and avoid dropping them. Replace batteries as needed.
- **System Inspection:** Periodically have your vehicle's electrical system and the remote start wiring inspected by a qualified technician, especially if you notice any unusual behavior.
- **Cleaning:** Do not use harsh chemicals to clean the remote controls or any visible components of the system. A soft, damp cloth is sufficient.

8. TROUBLESHOOTING

If you experience issues with your Avital 4115L system, consider the following common solutions:

- **Remote Start Not Engaging:**
 - Check if the vehicle is in Park (automatic) or Neutral with the parking brake engaged (manual).
 - Ensure all doors, hood, and trunk are closed.
 - Verify the remote control battery is not depleted.
 - Check if the vehicle's check engine light is on. Some systems prevent remote start under certain fault conditions.
- **Reduced Remote Range:**
 - Replace the remote control battery.
 - Ensure there are no large metallic objects or structures blocking the signal between the remote and the vehicle.
- **Vehicle Shuts Off After Remote Start:**
 - Ensure the key is turned to the "ON" or "RUN" position before pressing the brake pedal when entering the vehicle.
 - This could indicate an issue with the vehicle's immobilizer bypass module or the system's programming. Professional diagnosis may be required.

For persistent issues, contact a qualified Avital dealer or automotive electronics technician for assistance.

9. SPECIFICATIONS

Brand	Avital
Model Number	4115L
Manufacturer	Directed Electronics Inc
Product Dimensions	19.69 x 14.61 x 6.99 cm
Item Weight	703.07 g
Maximum Range	0.25 Miles (approximately 400 meters)
Remote Control Included	Yes (Two 1-Button Controls)

Features	Virtual Tach, D2D Serial Data Port, XCR Onboard Relays
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10. WARRANTY AND SUPPORT

Avital products are backed by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Avital website. Warranty claims typically require proof of purchase and professional installation.

For technical support, product registration, or to locate an authorized dealer, please visit the official Avital website or contact their customer service department. Do not attempt to service the main control module yourself, as this may void your warranty.

Official Avital Website: www.avital.com *(Note: This is a placeholder URL. Please refer to your product packaging for the correct support website.)*