

## FERVE F-91

# FERVE F-91 Battery and Alternator Tester Instruction Manual

Model: F-91

## 1. INTRODUCTION AND PRODUCT OVERVIEW

Thank you for choosing the FERVE F-91 Battery and Alternator Tester. This device is designed to provide quick and accurate assessments of your vehicle's 12V battery charge level and alternator performance. Please read this manual thoroughly before operating the device to ensure safe and effective use.



**Figure 1:** The FERVE F-91 Battery and Alternator Tester. The device features a pointed probe for direct contact, an alligator clip for ground connection, and multiple LED indicators for battery charge status and alternator function. The main unit displays 'BATT.' for battery status and 'ALTERN.' for alternator status, along with percentage indicators (-25%, 50%, 100%).

## 2. SAFETY INFORMATION

Always observe the following safety precautions when using the FERVE F-91 tester:

- Read all instructions before use.
- Wear appropriate eye protection (safety glasses) and protective clothing.
- Ensure adequate ventilation when working near batteries, as they can emit explosive gases.
- Avoid creating sparks or flames near the battery.
- Do not touch the battery terminals or the tester's probe and clip simultaneously with bare hands.
- Keep the device dry and clean. Do not expose it to rain or moisture.
- Do not attempt to open or modify the device. There are no user-serviceable parts inside.

- Keep out of reach of children.

### 3. COMPONENTS AND INDICATORS

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The FERVE F-91 tester consists of the following main components and indicators:

- **Main Unit:** Houses the electronic circuitry and LED indicators.
- **Probe:** A pointed metal tip for making contact with the positive (+) terminal of the battery.
- **Alligator Clip:** Connects to the negative (-) terminal or a suitable ground point.
- **"BATT." Indicators:** A series of LEDs indicating the battery's state of charge:
  - **-25%:** Low charge.
  - **50%:** Moderate charge.
  - **100%:** Full charge.
- **"ALTERN." Indicators:** A series of LEDs to assess the alternator's charging performance.
- **"DESIGN FERRET" Indicators:** Three colored LEDs (Red, Orange, Green) which may indicate additional diagnostic status or a quick check function. (Specific function not detailed in product information, refer to visual cues on the device during operation).

### 4. SETUP AND CONNECTION

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Before performing any tests, ensure the vehicle's ignition is off and all accessories are disconnected.

1. **Connect the Alligator Clip:** Securely attach the black alligator clip to the negative (-) terminal of the vehicle's 12V battery or a clean, unpainted metal part of the chassis (ground).
2. **Connect the Probe:** Carefully touch the pointed metal probe to the positive (+) terminal of the battery.
3. Ensure both connections are firm and free from corrosion for accurate readings.

### 5. OPERATING INSTRUCTIONS

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#### 5.1. Battery Charge Level Test

To check the current charge level of your 12V battery:

1. Follow the setup instructions in Section 4 to connect the tester to the battery.
2. Observe the LEDs under the "BATT." section on the main unit.
3. The illuminated LED will indicate the approximate charge level:
  - **-25% LED:** Battery is significantly discharged and requires charging.
  - **50% LED:** Battery has a moderate charge. Charging is recommended for optimal performance.
  - **100% LED:** Battery is fully charged.

#### 5.2. Alternator Performance Test

To assess if your vehicle's alternator is charging the battery correctly:

1. Ensure the tester is connected to the battery as described in Section 4.
2. Start the vehicle's engine.
3. Observe the LEDs under the "ALTERN." section.
4. The illuminated LED will indicate the alternator's status:
  - **Low/Faulty:** If the indicator suggests low output or no charge, the alternator may be faulty or the belt may be slipping.

- **Normal:** Indicates the alternator is charging the battery within acceptable parameters.
- **High/Overcharge:** If the indicator suggests high output, the alternator may be overcharging, which can damage the battery.

*Note: The specific labels for "ALTERN." LEDs are not fully clear from the image. Interpret based on the number of illuminated LEDs or specific markings on your device. Typically, a central LED indicates normal, while LEDs to either side indicate undercharge or overcharge.*

### 5.3. "DESIGN FERRET" Indicators

The three colored LEDs (Red, Orange, Green) labeled "DESIGN FERRET" likely provide a quick visual status or additional diagnostic information. While specific details are not provided, generally:

- **Green:** Typically indicates a good or healthy status.
- **Orange/Yellow:** May indicate a warning, caution, or moderate condition.
- **Red:** Usually signifies a fault, critical condition, or immediate attention required.

Observe these indicators in conjunction with the BATT. and ALTERN. readings for a comprehensive assessment.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your FERVE F-91 tester.

- **Cleaning:** Wipe the device with a soft, dry cloth after each use. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester in a cool, dry place, away from direct sunlight and extreme temperatures. Keep the probe and clip clean and free from debris.
- **Inspection:** Periodically inspect the cables, probe, and alligator clip for any signs of damage, wear, or corrosion. Do not use the device if any part is damaged.

## 7. TROUBLESHOOTING

If you encounter issues with your FERVE F-91 tester, refer to the following common problems and solutions:

- **No LEDs illuminate:**
  - Check that the alligator clip and probe are securely connected to the correct battery terminals.
  - Ensure the battery has at least a minimal charge. The tester requires some voltage to operate.
  - Inspect cables for damage.
- **Inconsistent or flickering readings:**
  - Clean the battery terminals and the tester's probe/clip to ensure good electrical contact.
  - Ensure connections are firm and stable.
- **Alternator test shows "Low" despite a new battery:**
  - Verify the engine is running at a stable idle or slightly above.
  - Check the vehicle's alternator belt for proper tension and condition.
  - Consult a professional mechanic if the issue persists, as the alternator itself may be faulty.

## 8. SPECIFICATIONS

Brand	FERVE
Model	F-91





Manufacturer	FERVE, S.A.
Item Weight	40 g
Package Dimensions	23 x 11 x 1.8 cm
ASIN	B01GTO3TJ4
International Article Code	08412473100910
Country of Origin	Spain



## 9. WARRANTY AND SUPPORT

FERVE products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or service, please refer to the documentation included with your purchase or contact your local FERVE distributor or customer service department. Keep your proof of purchase for warranty claims.

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## Related Documents - F-91

	<p><a href="#">FERVE F-814 Battery and Alternator Tester: User Manual and Instructions</a></p> <p>This manual provides detailed instructions for operating the FERVE F-814 Battery and Alternator Tester. Learn how to safely test battery charge levels, battery condition, and alternator performance for automotive applications. Includes safety precautions and warranty information.</p>
	<p><a href="#">FERVE F-2124 / F-2125 Battery Booster User Manual</a></p> <p>Discover how to safely and effectively use FERVE F-2124 and F-2125 battery boosters with this comprehensive operating and safety manual. Covers setup, charging, testing, 12V/24V start-up, and maintenance.</p>
	<p><a href="#">Ferve Prima Battery Chargers: Operating Instructions and Safety Manual</a></p> <p>Comprehensive guide to Ferve Prima battery chargers, including models F-705, F-903, F-905, and F-805. Covers operating instructions, safety precautions, and warranty information for charging various types of batteries.</p>
	<p><a href="#">Ferve Prima Battery Chargers F-806 and F-807 User Manual</a></p> <p>Comprehensive user and safety manual for Ferve Prima battery chargers, models F-806 and F-807. Includes operating instructions, technical specifications, and warranty information.</p>

	<a href="#">FERVE Fast Battery Chargers - User Manual and Specifications</a> Comprehensive guide to FERVE Fast battery chargers, including models F-923, F-925, F-970, F-925 RF, and F-970 RF. Covers safety precautions, operating instructions, battery testing, charging processes (normal and fast), and booster functionality.
	<a href="#">FERVE DUAL F-908 Battery Charger - 12V, 5-10A, Ripple Free Technology</a> Comprehensive guide to the FERVE DUAL F-908 battery charger. Learn about its features, specifications, safe operation, and warranty. Ideal for 12V batteries, including AGM, GEL, and LIQ types.

Documents - FERVE – F-91

	
IT	MANUALE DI ISTRUZIONI PER PUNTATRICE - ISTRUZIONI IN LINGUA ORIGINALE Parti di ricambio e schemi elettrici / vedi Allegato
EN	INSTRUCTION MANUAL FOR SPOT WELDING MACHINE - Translation of the original instructions Spare parts and wiring diagrams / see Annex
DE	BETRIEBSANLEITUNG FÜR PUNKTSCHWEISSMASCHINE - Übersetzung der Originalbetriebsanleitung Sonder Teile und Ersatzteile / siehe Anlage
FR	MANUEL D'INSTRUCTION POUR POUTE A SOUDER PONT POINTS - Traduction de la notice originale Schémas électriques et liste des pièces de rechange / Cf. Annexes
ES	MANUAL DE INSTRUCCIONES PARA SOLDADURA POR PUNTO - Traducción de las instrucciones originales Esquemas eléctricos y lista de repuestos / Ver Anexo
FI	MANUAL DE INSTRUCCIONES PARA MÁQUINA DE SUDAR POR PUNTOS - Tradução das instruções originaes Esquemas elétricos e lista de peças substituíveis / Ver Anexo
PT	MANUAL DE INSTRUÇÕES PARA MÁQUINA DE SUDAR POR PONTOS - Tradução das instruções originaes Esquemas elétricos e lista de peças substituíveis / Ver Anexo
DA	INSTRUKTIONSBEGLEITUNG FÜR PUNKTSCHWEISSGERÄT - Übersetzung der originalen Anleitung Ersatzteile und Ersatzteile / siehe Anlage
NL	INSTRUCTIEWEGLEIDING VOOR PUNTSLASAPPARAAT - Vertaling van de originele instructies Onderdelen schema's / zie bijlage
SV	INSTRUKTIONSMANUAL FÖR PUNKTSVETSMAKIN - Översättning av bruksanvisning / original Ersättnad och reservdelar / Se Bilaga
EL	ΕΓΧΕΙΡΙΔΙΟ ΣΥΣΤΕΜΕΣ ΠΥΛΕΣ ΠΥΛΕΣ - Μετάφραση των οδηγιών χρήσης ΑΝΤΙΚΑΤΑΛΟΓΑ ΜΕΡΩΝ ΚΑΙ ΣΧΗΜΑΤΑ ΣΥΣΤΗΜΑΤΟΣ / Βλ. Παράρτημα
NO	INSTRUKTIONSMANUAL FÖR PUNKTSVETSMAKIN - Översättning av bruksanvisning / original Reservdelar och skematisering / Se Bilaga
TR	YERLEŞTİRME KILAVUZU / KILAVUZU / KILAVUZU / KILAVUZU - Original talimatlar (gerekli) Yedek parçaları ve kablo şemaları / Bkz. Ekler
	
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ORIGINALE 2 Parti di ricambio e schemi elettrici / vedi Allegato EN INSTRUCTION  
MANUAL FOR SPOT WELDING MACHINE - Translation of the original instructions  
10 Spare parts and wiring diagrams / see Annex DE BETRIEBSANLEITUNG FR  
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LA BATERA Motor del vehculo parado Si la batera acaba...

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F-9030 230 V - 50/60 Hz 980 W 12 - 24 V **F-9100** 230 V - 50/60 Hz 1500 W 12 V **F-9124** NEW 220-240 V - 50/60 Hz 3600 W 12 - 24 V F-4808 230...

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DK S I P wagner-group.com Fig. 1 A B D E SteamForce Pro C MAX MIN F 2

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