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Sealey TL95

Sealey TL95 Timing Light Diesel Converter Box Instruction Manual

Model: TL95

1. INTRODUCTION

The Sealey TL95 Timing Light Diesel Converter Box is an essential tool designed for accurately detecting the pulse from the fuel pipes of diesel fuel injectors. This device enables the use of standard timing lights, engine analyzers, and multimeters with inductive pick-ups on diesel engines, facilitating precise engine timing adjustments.

It is compatible with most direct injection diesel engines that feature external fuel pipes ranging from 6mm (1/4 inch) to 10mm (3/8 inch) in diameter.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment, including eye protection, when working on engines.
- Ensure the engine is off and cool before connecting or disconnecting the device, unless otherwise specified for a particular test.
- Verify that all connections are secure to prevent accidental disconnections during operation.
- Keep hands and clothing clear of moving engine parts.
- Do not expose the converter box to excessive moisture or extreme temperatures.
- Refer to your vehicle's service manual for specific timing procedures and safety precautions.

3. PACKAGE CONTENTS

The Sealey TL95 Timing Light Diesel Converter Box package includes:

- 1 x Sealey TL95 Timing Light Diesel Converter Box

4. SETUP

1. **Prepare the Fuel Pipe:** Identify the fuel injector pipe for the cylinder you wish to time (typically cylinder 1). Ensure the surface of the fuel pipe is clean and free from dirt, grease, or paint to allow for optimal signal detection.
2. **Connect Power:** Connect the converter box to a 6-30V DC power source. This typically involves connecting to the vehicle's battery terminals or a suitable power supply.

3. **Attach Converter Box Clamp:** Securely attach the converter box's piezo clamp onto the selected fuel injector pipe. The clamp is designed to fit pipes between 6mm (1/4") and 10mm (3/8"). Ensure the clamp is firmly seated and making good contact with the pipe.
4. **Connect Timing Light:** Attach the inductive pick-up of your timing light, engine analyzer, or multimeter to the inductive hoop on the Sealey TL95 converter box.
5. **Ground Connection:** Ensure the ground wire from the converter box is securely connected to a clean, unpainted metal part of the engine or chassis.



Image showing the Sealey TL95 Timing Light Diesel Converter Box, a red and black unit designed for diesel engine timing.

5. OPERATING INSTRUCTIONS

1. **Start Engine:** Start the diesel engine and allow it to reach normal operating temperature.
2. **Verify Signal:** Observe the red LED indicator light on the front face of the TL95 converter box. A flashing LED indicates that the box is detecting a pulse from the injector pipe. If the light is not flashing, check all connections and try rotating the converter box clamp 180 degrees on the fuel pipe.

3. **Read Timing:** With the LED flashing steadily, use your connected timing light to read the engine's timing. Follow the specific instructions for your timing light and vehicle's service manual for accurate interpretation.
4. **Optimal Placement:** For the most accurate readings, position the piezo pick-up as close to the fuel injection pump as possible.
5. **Trigger Point:** The device is designed to trigger at 15% of the highest pressure in the injector pipe.

6. MAINTENANCE

- **Cleaning:** After each use, wipe the converter box and its clamps with a clean, dry cloth to remove any fuel residue, dirt, or moisture. Do not use harsh chemicals or solvents.
- **Storage:** Store the device in a clean, dry environment, away from direct sunlight and extreme temperatures. Keep it in its original packaging or a protective case to prevent damage.
- **Inspection:** Periodically inspect the cables and clamps for any signs of wear, damage, or corrosion. Replace any damaged components immediately.

7. TROUBLESHOOTING

- **Red LED Not Illuminating/Flashing:**
 - Ensure the power connections (6-30V DC) are secure and providing adequate voltage.
 - Verify the ground connection is clean and solid.
 - Check that the piezo clamp is firmly attached to a clean section of the fuel injector pipe.
 - Try rotating the converter box clamp 180 degrees on the fuel pipe, as orientation can affect signal detection.
- **Erratic or Unstable Timing Light Reading:**
 - Re-check the cleanliness of the injector line. Any debris or paint can interfere with the signal.
 - Ensure the converter box clamp is tightly secured and not vibrating excessively.
 - Confirm the inductive pick-up of your timing light is correctly positioned on the converter box's hoop.
 - Test with a different timing light if possible, as some timing lights may be more sensitive or compatible than others.
- **Light Shuts Off at Higher RPM:**
 - This could indicate an intermittent connection. Re-check all power, ground, and clamp connections.
 - Ensure the fuel pipe is not vibrating excessively at higher RPMs, which could disrupt the signal.
 - Verify the power source is stable under load.

8. SPECIFICATIONS

Model No.	TL95
Input Power	6-30V DC
Trigger Point	15% of the highest pressure in the injector pipe
Clamp Size	6mm (1/4") to 10mm (3/8")
Product Dimensions (L x W x H)	4.84 x 6.69 x 2.36 inches
Item Weight	8.1 ounces
Included Components	Timing Light Diesel Converter Box

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or service, please refer to the official Sealey website or contact your authorized Sealey dealer. Keep your purchase receipt as proof of purchase.

