



# RELAY TESTER

MODEL NO: TA131

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Wear eye protection



Electrical shock hazard

## 1. SAFETY

- ✓ The warnings, cautions and instructions referred to in this manual cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.
- ❑ **WARNING! USE EXTREME CAUTION** when working with high voltages. **IF IN ANY DOUBT CONSULT A QUALIFIED ELECTRICIAN.**
- ❑ **WARNING!** Engines produce carbon monoxide which is odourless and causes slower reaction time which could lead to serious injury. An engine which is operating should be in a well ventilated area, or the vehicle's exhaust should be connected to an adequate fume removal system.
- ✗ **DO NOT** use the relay tester if it has been damaged.
- ✗ **DO NOT** use the relay tester when hands are wet.
- ✓ Familiarise yourself with the fuses and relays layout, normally shown on the fuse and relay housing cover or the vehicle manual.
- ✓ Switch off ignition and remove ignition key when removing and replacing fuses.
- ✓ Always renew a fuse with the identical fuse and rating, never use one with a different rating or substitute anything else.
- ✓ Switch off ignition and remove ignition key when removing and replacing relays.
- ✓ Always renew a relay with an identical relay, never use one that is similar, which may perform different functions.
- ✓ Familiarise yourself with the application and limitations of the relay tester.
- ✓ When working on a vehicle which is being tested or repaired ensure that the handbrake is on and the front wheels are chocked to avoid the vehicle moving and causing injury.
- ✓ Wear suitable eye protection when testing or repairing a vehicle.
- ✓ Select the relay to be tested and follow the instructions before commencing testing.
- ✓ Always take care when working with voltages above 35V DC. These voltages are considered a shock hazard.
- ✓ If any abnormal results occur, the relay tester must be checked out by an authorised technician.
- ✓ When not in use, store the relay tester carefully in a safe, dry, childproof location out of direct sunlight. Storage temperature range: -15°C to +50°C.

## 2. INTRODUCTION

Health test for 4 and 5 pin electro-mechanical relays commonly found on modern vehicles. Test feature will cycle the relay ten times, testing the resistance, contacts and consistency within each cycle. If a cycle fails on the test then this will be indicated by a red LED and alternatively a green LED if the relay works. Supplied in zipped pouch.



### 3. SPECIFICATION

Model Number: .....TA131  
Relay configuration: .....4 pin/5 pin  
Supply voltage: ..... 12VDC (vehicle battery)  
Flying lead length: ..... 1400mm  
Tester module size (L x W x D): ..... 130mm x 70mm x 35mm  
Battery connection: ..... Insulated crocodile clips  
Weight: ..... 245g

### 4. OPERATION

**Note!** This procedure applies only to electro-mechanical relays.

#### 4.1. Sourcing the faulty relay (solenoid).

- 4.1.1. Read these instructions in conjunction with automobile manufacturers manual to establish proximity and function of relays and fuses.
- 4.1.2. Remove the suspect relay and check the connections for any signs of overheating or of corrosion. If there appears to be any damage, replace with an identical brand-new relay.
- 4.1.3. If there is no apparent damage the function can be checked with the relay tester.

#### 4.2. Testing relay function

- 4.2.1. With the ignition switch off connect the red crocodile clip of the relay tester to the positive terminal of the vehicle battery.
- 4.2.2. Connect the black crocodile clip to the negative terminal of the vehicle battery.
- 4.2.3. Select either a 4PIN socket or a 5PIN socket with the selector switch on the relay tester.
- 4.2.4. Plug in the relay to be tested and press the test button.
- 4.2.5. Test feature will cycle the relay ten times, testing the resistance, contacts and consistency within each cycle. If a cycle fails on the test then this will be indicated by a red LED or alternatively a green LED if the relay works.
- 4.2.6. If the relay fails replace it with an identical brand-new relay.

### 5. MAINTENANCE

- WARNING! DO NOT** attempt to repair or service unless you are qualified to do so and have the relevant calibration, performance test, and service information. To avoid electrical shock or damage to the tester **do not** get water inside the case.
- 5.1. Periodically wipe the casing and flying leads with a damp cloth and mild detergent. **DO NOT** use solvents.
- 5.2. After each use wipe clean the crocodile clips with a lightly oiled cloth.
- 5.3. **DO NOT** store in a place of high humidity or high temperature.



#### ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



#### WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

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