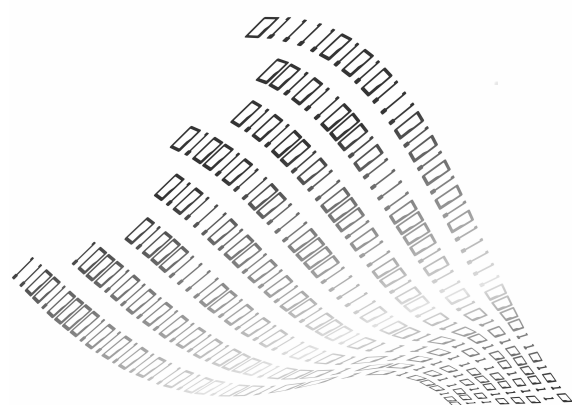

TDB008 PARKING SENSOR TESTER

OPERATING MANUAL



The Diagnostic **BOX**.com

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INTRODUCTION

TDB008 Parking Sensor Tester

The TDB008 has been designed to give a visual indication of the output signals of parking sensors using ultrasonic sensors on a range of vehicles.

Many parking sensor systems now fitted to the latest vehicles require the engine running and the car in reverse gear. In addition to this the vehicles that have a parking assist will shut down if there is a problem and diagnostics of the sensors requires 2 people to check. The TDB008 with its extended pick lead allows a single person to operate the vehicle safely and test the sensors while in the drivers seat.

This makes the TDB008 both a time saving product, but also ensures the system can be tested safely and easily by the workshop technician.

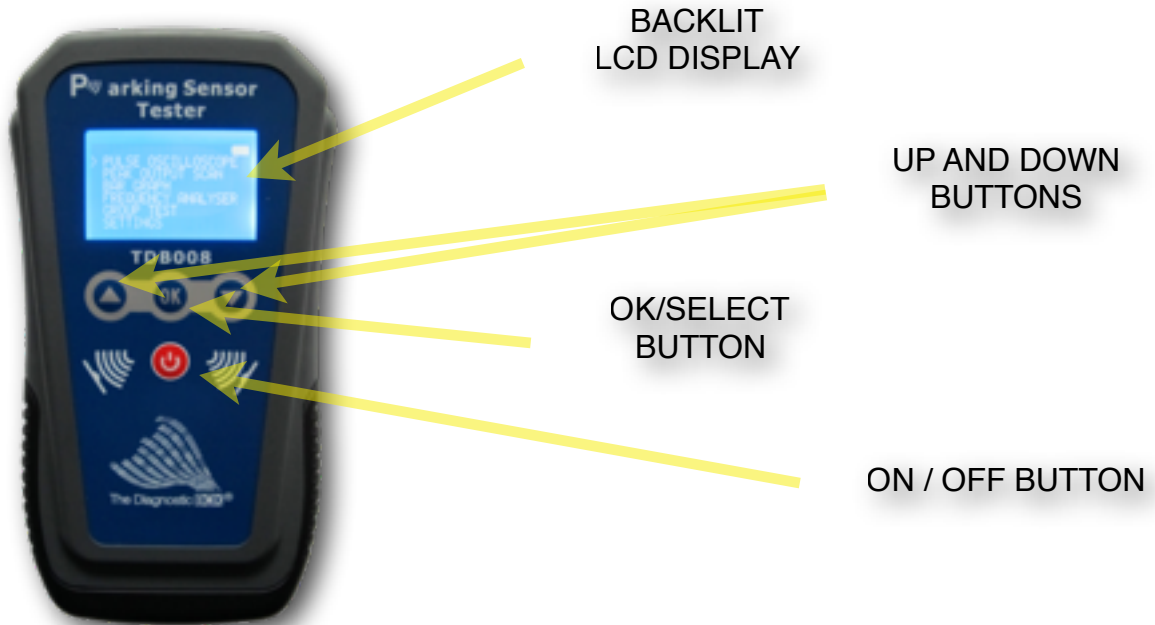
The internal wide frequency range microphone covers the typical ultrasonic automotive range of 34.8 kHz to 68 kHz. The LCD screen can show the signal as a pulse, an average value in either graph form or as a bar graph or a waveform.

The TDB008 also has the facility to display the operating frequency of the ultrasonic sensor together with its signal strength.

The Quick Test also provides a way to check all the sensors together, and compare the results to ensure they are all operating within their normal specifications.

Powered by 4 AAA cells the TDB008 has an operational time of over 20 hours of use, and it also includes a low battery warning and programmable auto switch off time.

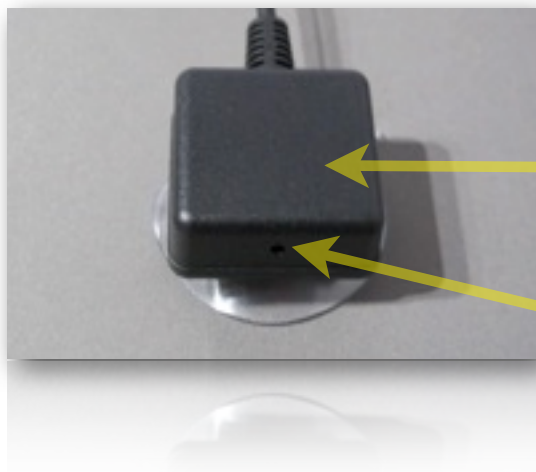
GENERAL OPERATION



GENERAL OPERATION

SENSOR PICK UP

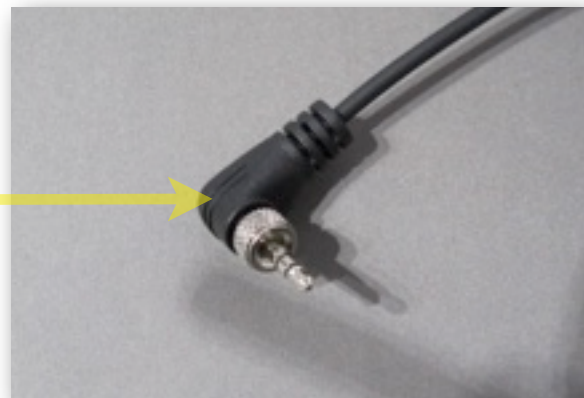
EXTERNAL
SENSOR
CONNECTION



EXTERNAL
SENSOR

SENSOR PICK UP

EXTERNAL
SENSOR
CONNECTOR



GENERAL OPERATION

INSERTING BATTERIES



SLIDE THE
COVER AND
INSERT
4 x AAA
BATTERIES

SLIDE THE
COVER BACK



TURNING THE TESTER ON

PRESS AND
HOLD THE RED
POWER BUTTON



GENERAL OPERATION

QUICK TEST

SELECT QUICK TEST USING THE UP AND DOWN BUTTONS AND PRESS THE OK TO SELECT



USING THE UP AND DOWN ARROWS ADJUST THE SENSITIVITY TO THE REQUIRED LEVEL



MEASURE THE FIRST PARKING SENSOR AND PRESS OK WHEN COMPLETE

REPEAT FOR ALL PARKING SENSORS

COMPARE RESULTS



GENERAL OPERATION

ADVANCED TESTS

SELECT ADVANCED TESTS
AND THEN SELECT

PULSE OSCILLOSCOPE



SELECT ADVANCED TESTS
AND THEN SELECT

PEAK OUTPUT SCAN



SELECT ADVANCED TESTS
AND THEN SELECT

BAR GRAPH



GENERAL OPERATION

ADVANCED TESTS

SELECT ADVANCED TESTS
AND THEN SELECT

FREQUENCY ANALYSER



EXTERNAL SENSOR



THE EXTERNAL SENSOR
CAN BE CONNECTED TO
ALLOW 1 PERSON SAFE
TESTING

CONNECT THE EXTERNAL
SENSOR TO THE TDB008
AND ENSURING THE SCEW
IS ENGAGED SO THE
CONNECTOR CANNOT
PULL OUT



GENERAL OPERATION

TURN OFF TIME

**SELECT OPTIONS AND
SELECT**

TURN OFF TIME

SELECT

**5 MIN
10 MIN
15 MIN**



SOUND CONTROL



**SELECT OPTIONS AND
SELECT**

SOUND CONTROL

SELECT

**PULSE DETECTION
KEY PRESS
NONE**

LCD SCREEN CONTRAST

**SELECT OPTIONS AND
SELECT**

LCD SCREEN CONTRAST

**SELECT UP/DOWN TO SET
REQUIRED CONTRAST.**



VEHICLE TESTING

VEHICLE TEST - STAND ALONE



SELECT THE REQUIRED TEST AND POINT THE TDB008 SENSOR PICK UP TOWARDS THE PARKING SENSOR

VEHICLE TEST - EXTERNAL SENSOR PICK UP

PLACE THE EXTERNAL SENSOR AS CLOSE TO THE PARKING SENSOR AS POSSIBLE. ENSURING THE PICKUP HOLE IS POINTING TOWARDS THE SENSOR.

DO NOT STICK IT ON TOP OF THE SENSOR.



PLEASE NOTE THE INTERNAL AND EXTERNAL SENSOR PICK UPS WILL PRODUCE SLIGHTLY DIFFERENT RESULTS. PLEASE ENSURE YOU TEST ALL SENSORS WITH THE SAME SENSOR AND NOT MIX THE INTERNAL AND EXTERNAL SENSOR TESTS OTHERWISE YOU WILL GET MIXED READINGS.

SPECIFICATION

OPERATING VOLTAGE	6 VOLTS
OPERATING CURRENT	50 mA average
POWER CONSUMPTION	300 mW
DETECTION RANGE (FREQUENCY)	30kHz to 70kHz
MICROPHONE RANGE	10Hz to >80kHz
BATTERY	4 x AAA Alkaline or NiMh Rechargeable
OPERATING TEMPERATURE RANGE	0 to 50 degrees C
IP RATING	IP61
SIZE	170mm x 90mm x 40mm
WEIGHT	360 grams
FREQUENCY ANALYSER	Low range 30kHz to 50kHz High range 50kHz to 70kHz Sensitivity adjustment
OSCILLOSCOPE	Pulse mode 25uS/div Sensitivity adjustment
PEAK SCAN	Scan time (Full screen) 2 seconds Sensitivity adjustment
BATTERY LEVEL	Visual indicator and audible low battery warning
AUDIO TONE	Active in the presence of ultrasonic field and re
AUTO POWER OFF	User programmable for 5, 10, 15 mins or none

CONTACT INFORMATION

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DECLARATION of CONFORMITY

DECLARATION OF CONFORMITY

Manufacturer's Name: The Diagnostic Box

Manufacturer's Address: Chillington
Kingsbridge
Devon
TQ7 2EZ
United Kingdom

Product Name: Parking Sensor Tester

Product Model: TDB008

Conforms to: Specifications
EN 55022:1998, A1: 2000 + A2: 2003
EN 55024:1998, A1: 2001 + A2: 2003

Following the Provisions of EMC Directive: 204/108/EEC

TDB008 November

