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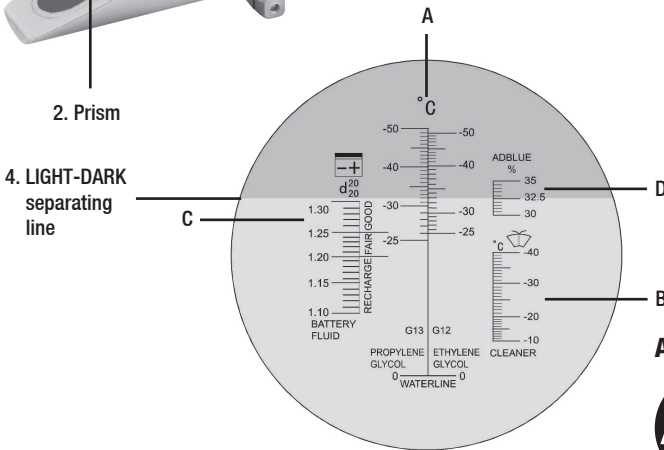
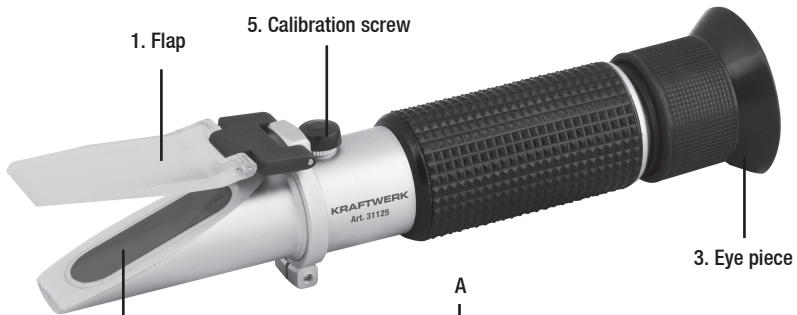
quality tools

BLACKLINE

Using-Instructions

Antifreeze and battery acid refractometer with AdBlue concentration control

2



Art. 31125



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Please read these instructions carefully to ensure the safe and effective use of this tool.

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APPLICATION OF THE TESTER

One look at the refractometer will tell you whether liquids such as:

- coolant scale A, propylene glycol * on left, ethylene ** on right
- washer fluid scale B (guide value)

contain sufficient amount of antifreeze. The refractometer has a display, divided up into 4 separate scales, from which the value for each liquid can be read (see Pic.)

* Propylene is mainly used as an antifreezing agent outside of Europe.

** Ethylene is mainly used as an antifreezing agent in Europe.

BATTERY ACID TESTER



Caution advised when testing the battery acid, acid must not come into contact with eyes and skin - it will cause personal injury!

The acid density of the battery acid is measured in kg/l. The scale shows the ranges classified as **RECHARGE**, **FAIR** and **GOOD**.

ADBLUE CONCENTRATION CONTROL



Cleanliness is vital when working with AdBlue! Even small amounts of contamination can damage the AdBlue system, which will ultimately lead to the system failing.

Lengthy storage and high temperatures will slowly cause AdBlue to corrode. When inspecting AdBlue, it is essential that the LIGHT-DARK separation (4) is in line with the 32.5% mark on the scale. Any shift towards the waterline is an indication that AdBlue is corroding.

TEST PROCEDURE

1. Make sure that prism (2) and flap (1) on the measuring instrument are clean.
2. Using the enclosed pipette, place a drop of the test liquid on to the prism.
3. Close flap (1) so that the drop gets distributed.
4. Turn the eye-piece (3) to adjust until visual acuity is achieved.
5. Read the value from the corresponding scale. A clear LIGHT-DARK separating line (4) will appear.
6. Upon completion of the test procedure, you will need to thoroughly clean the prism using a dry cloth. Do not soak in water!

Please Note: The result of the cleaner test is an average of different, alcohol-based antifreezing agents, because the liquids have varying compositions.

The display on the refractometer can be tested using distilled water. This test proceeds as per the steps in "Test procedure". The LIGHT-DARK separating line needs to be level with the water line (WATERLINE 0 - 0). If this is not the case, the refractometer can be calibrated and its settings adjusted using the calibration screw (5).

In the event of any discrepancies, contact your dealer or the manufacturer.

WARRANTY

We do not take responsibility for any damage caused by misuse or any use that is not in compliance with the safety standards described herein.

Customer services

Contact your local importer of your specialized dealer to obtain address of your service department.

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From date of purchase receipt
2 YEARS GUARANTEE
on material- or production-defects