

Instruction for refractometer for brake fluids DOT 4

Maintenance and general information

After use you should never wash the refractometer, since this can cause water to enter the instrument. Use a piece of soft cotton (like the one which is delivered along with the refractometer) to wipe the prism and cover plate clean.

You should storage the refractometer in a dry and safe place. Avoid dropping the instrument. We advise you to keep the refractometer in the leather case in which it is delivered. Do not keep the refractometer in corrosive environments.

The calibration fluid should be kept in its bottle. Avoid getting the fluid in contact with eyes or skin.

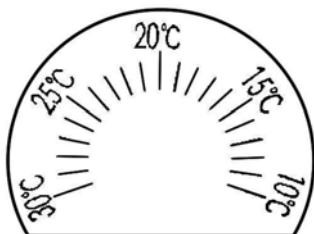
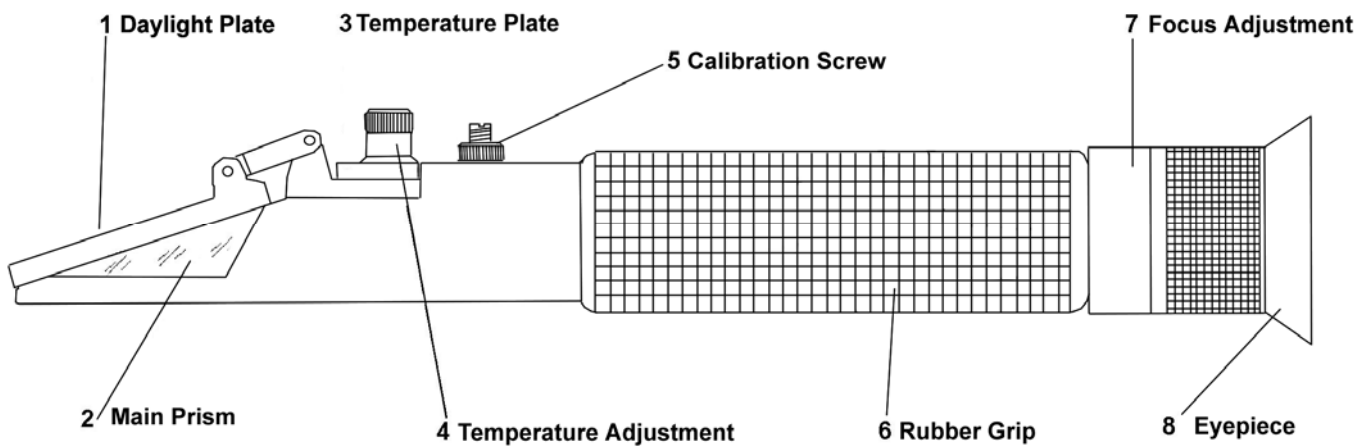


Fig. 1 – Temperature adjustment

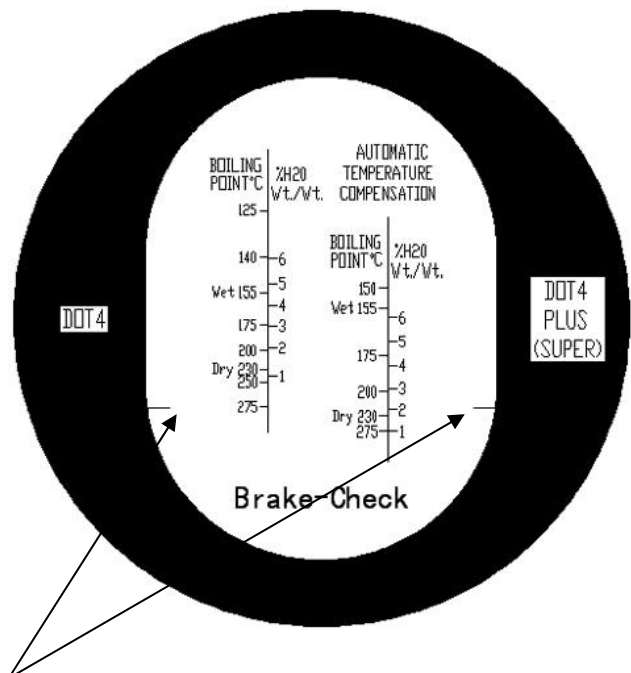


Fig. 2 - Line of Calibration

Instruction:

Before use

Point the refractometer towards a source of light and turn the focus adjustment (7) until you clearly see the scale.

Calibration

Turn the temperature adjustment (4 & fig. 1) to the current room temperature (degrees centigrade) Open the daylight plate (1). Add a few drops of calibration fluid to the prism (2). Close the daylight plate and make sure the fluid completely covers the prism (there should be no air bubbles or dry spaces). Wait for approx. 30 seconds for the calibration fluid to adjust to the room temperature. Point the refractometer towards a strong source of light and look into the eyepiece (8) Now adjust the calibration screw (5) (screwdriver is found in the box) until the border between light and blue is exactly on the line of calibration (line of calibration is illustrated in fig. 2). Always be sure that the sample you wish to test is the same temperature as the one you have calibrated and set the refractometer to.

In use

Add a few drops of the brake fluid from the cylinder you wish to test, to the main prism (2) (we do not recommend that you use brake fluid directly from the brake fluid container – this will not give you the most accurate result.

Close the daylight plate and make sure the fluid completely covers the prism (there should be no air bubbles or dry spaces). Wait for approx. 30 seconds for the brake fluid to adjust to the room temperature. Point the refractometer towards a strong source of light and look into the eyepiece (8). The boundary between blue and white is the measurement, which will tell you the boiling point and water content percentage of your brake fluid.

After use

Wipe the prism and cover plate with a clean piece of soft cotton (never use paper) or other soft textile. Never flush your refractometer in water; this will cause water to enter the instrument.

Accessories:

- Calibration fluid
- Cotton for cleaning
- Pipette
- Screwdriver