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Guarantee

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LASER®

Part No. 3272

Refractometer

For testing Anti-Freeze l Battery Acid
Windscreen water

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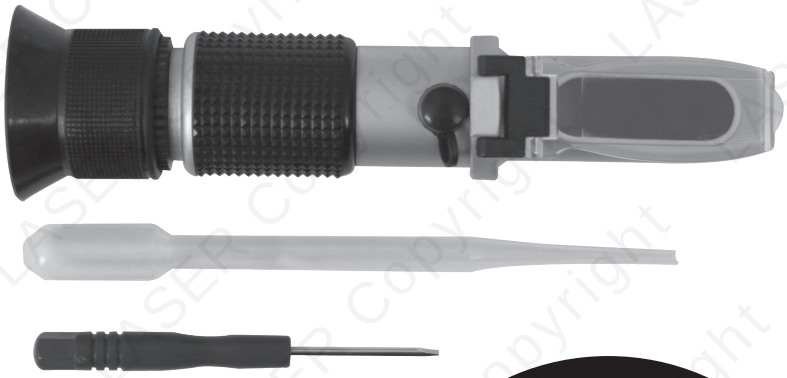
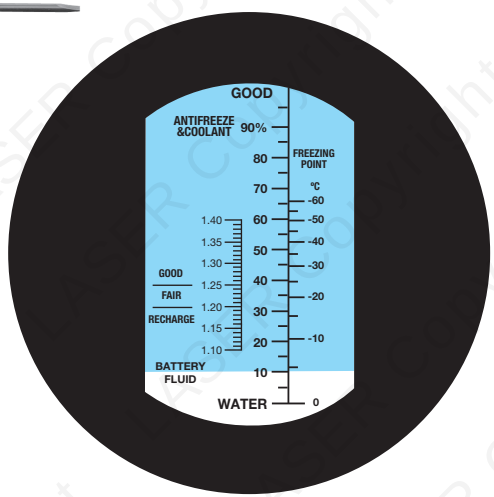
Plan Layout

The Laser Tools Refractometer is a precision instrument which tests the freezing levels of Anti-freeze and Battery Fluids. This kit includes a Dropper for collecting the fluid and a Precision Screwdriver for the Calibration Screw.





Contents

1. Refractometer
2. Precision Screwdriver for the Calibration Screw
3. Dropper for collecting fluid
4. Plastic case for storage

Specification

	Measuring Range	Accuracy
Cooling Fluid Concentration Screw	0-100%	+/-5%
Freezing Point of Coolant	0-60°C	+/-5%
Battery Fluid Density	1.10-1.40sg	+/-0.01sg

Instruction

Calibration Procedure

1. Open daylight plate and place 2-3 drops of distilled water on the main prism. Close the daylight plate so the water spreads across the entire surface of the prism without air bubbles or any spots.
2. Allow the sample to rest on the prism for approximately 30 seconds before going to step 3 (This allows the sample to adjust to the ambient temperature of the Refractometer).
3. Hold the daylight plate in the direction of a light source and look into the eyepiece. You will see a circular field with graduations down the centre (you may have to focus the eyepiece to see the graduations clearly). The upper portion of the field should be blue while the lower portion should be white.
4. While looking into the eyepiece, turn the calibration screw until the boundary between the upper blue field and the lower white field meet exactly on the Boundary line (waterline).
5. Once complete the instrument is calibrated for your current ambient room temperature.
6. When working temperature of the room or environment changes by more than 5°F we recommend recalibrating to maintain accuracy.

Basic procedure

1. Follow steps 1,2 and 3 as for calibration procedure, this time using 2 or 3 drops of antifreeze solution or battery acid.
2. Take the reading where the boundary line of blue and white cross the graduated scale. This scale will provide a direct reading of the freezing point of antifreeze solutions or the charge level of battery fluid.
3. Clean the prism carefully using a damp soft cloth after every use.
4. **DO NOT IMMERSE IN WATER.**