

I'm not a robot



How to use innova 3306a digital multimeter

To avoid false readings that could lead to possible electric shock or personal injury, replace the batteries as soon as the low battery indicator displays. Always consider electrical and electronic equipment to be ener-gized (live). Using an incorrect fuse may result in serious injury and/or damage to the unit. Operating environment: Temperature - 32° to 104°F. Compare the two readings. I can help you with questions regarding its specifications, testing procedures (AC/DC voltage, resistance, diode, DC current, ... Plug the BLACK test lead into "COM" jack of the multimeter; plug the RED test lead into the "V" jack. Our measurement shows around 18 to 19, within acceptable limits, indicating normal wear.In conclusion, whether you possess a late-model vehicle, an early Mustang, or require home use for battery testing, the Nova digital multimeter family provides the right tools for your needs. (32 mm) Weight (including batteries): approximately 5.7 oz (170 g) Accuracy of specifications in the following tables are based on an operating temperature of 64°F to 82°F (18°C to 28°C) and a relative humidity of less than 75%. Enjoy utilizing our tools and feel free to ask questions. One reading should indicate a voltage drop value; the other reading should indicate an overrange (1) condition. Watch to learn how & see these multimeters in action! 500V AC/DC between the COM and V jacks is the maximum voltage that this instrument is designed to measure. Do not remove or disassemble the circuit board or the front panel, these items are not serviceable and if disassembled there is the possibility of loose metal parts shorting the circuit board and causing an electrocution danger to the user. The digital multimeter offers several functions, including the ability to test fuses. Enjoy utilizing our tools and feel free to ask questions.A multimeter can make diagnosing car trouble a lot easier. SERVICE PROCEDURES If you have any questions, require technical support or information on UPDATES and OPTIONAL ACCESSORIES, please contact your local store, distributor or the Service Center. Adjusting to Fahrenheit, the temperature reads in the 90s. Place the RED test lead onto the positive (+) side of the item being tested and the BLACK test lead onto the negative (-) (across the source/load) side of the item. If the unit fails within the one (1) year period, it will be repaired or replaced, at the Manufacturer's option, at no charge, when returned prepaid to the Service Center with Proof of Purchase. Plug the RED test lead into the "Ω Ω " jack of the multimeter; plug the BLACK test lead into the "COM" jack. Download Innova 3306 Hands-Free DMM User Manual or view PDF for FREE. Never ground yourself when taking electrical measurements. Disconnect the battery, or shut off the power to the circuit being tested. RESISTANCE (OHMS) Range Resolution Accuracy Overload Protection 200Ω 0.1Ω ±(1% of reading + 5 digits) 250V DC/AC RMS 2KΩ 1Ω 20KΩ 10Ω 200KΩ 100Ω 20M Ω 10K Ω ±(2% of reading + 5 digits) Open Circuit Voltage: Approximately 3V DIODE TEST Function Range Resolution Accuracy Overload Protection Diode test 1mV 0.5 ~ 0.8V 250V DC/AC RMS Open Circuit Voltage: Approximately 2.8V Forward Voltage Drop: Approximately 1mA DC AMPS Range Resolution Accuracy Overload Protection 2000µA 1µA ±(1.5% of reading + 5 digits) 0.315A/250V fuse 20mA 10µA 200mA 100µA 10A 10mA ±(2% of reading + 5 digits) Non-Protected Measuring time is equal to or less than 15 seconds and time interval is equal to or over 15 minutes. Set the meter's Function/Range Selector Switch to the position. Such voltages pose a shock hazard. (Polarity does not matter when checking resistance). The RESPONSIBLE PARTY shall be made aware that, if the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. Isolate yourself from ground by using dry rubber insulating mats to cover all exposed/grounded metal. Plug the RED test lead into the "BAT." jack of the multimeter; plug the BLACK test lead into the "COM" jack. (89 mm) Depth - 1.25 in. Place the RED test lead onto one side of the item being tested and the BLACK test lead onto the other side of the item. Test diodes on de-energized (dead) circuits only, never on live circuits. Auto Shut Off FeatureNo longer worry about coming back to a dead multimeter after leaving it on.Automotive Uses IncludeAutomotive circuits, breakers, wiring, vehicle battery & charging systems, electrical components, and more.Auto-RangingAutomatically selects correct measurement range. RESISTANCE MEASUREMENT Ω (OHMS) Resistance measurements must be made on "de-energized" (dead) circuits ONLY. DIODE TEST To avoid electrical shock and/or damage to the multimeter, ensure the power is removed from the circuit before any DIODE testing procedure is conducted. Reassemble the case and secure with the two screws. DO NOT take more than 15 seconds to take the reading. BE CAREFUL not to touch any energized conductors with any part of your body. Let's test a nine-volt battery with our setting adjusted accordingly. As expected, it's defective. These warnings, as well as all warnings and precautions used through out this manual, must be followed to avoid electric shock and/or personal injury. Set the meter's Function/Range Selector Switch to the appropriate ACV or DCV position as desired. Use caution when working above 30V AC rms, 42 V peak, or 60 V DC. Determine the voltage rating of the battery to be tested. Download manualHere you can download full pdf version of manual, it may contain additional safety instructions, warranty information, FCC rules, etc.Download INNOVA 3306 - Hands-Free DMM (10 MegOhm) Manual Hello, my name is Mark from Nova, and with the assistance of the Unova digital multimeters, I'm here to demonstrate how to effectively diagnose and repair your vehicle. Plug the BLACK test lead into "COM" jack of the multimeter; plug the RED test lead into the "V" jack. Displays "1" on LCD Low battery indicator. Installation labor is not covered under this warranty. Place the RED test lead onto one side of the diode being tested and the BLACK test lead onto the other side. This series is ideal for conducting basic tests on batteries and similar components. Our alternator reads 14.5V, a satisfactory value. How can you use an Innova 3306 Multimeter for your campervan needs? Impressing a voltage across the multimeter's terminals while set to any resistance range may result in electric shock, instrument damage and/or damage to equipment under test. Today's post will explain what you can use a multimeter for, why you need to consider it a compulsory bit of kit, and ... I've read the Innova 3306 Digital Multimeter Owner's Manual. Read the results on the display. This manual is copyrighted with all rights reserved. Remove the two screws on the back of the meter and separate the case. MAKE SURE equipment is completely de-energized before taking any resistance measurements. After the test is completed, shut the power off to the circuit before removing the test leads and before reconnecting any disconnected wires or devices. BATTERY AND FUSE REPLACEMENT When replacing the battery or the fuse, remove only the rear panel. All Rights Reserved. We'll be examining direct current (DC) current, so the black probe will go here, and the red one will go here. DO NOT use thirdparty test leads or probes. Stand on rubber mats and wear dry clothing. Set the meter's Function/Range Selector Switch to the OHM "Ω Ω " range function. To prevent electrical shock and/or damage to the tester or the equipment under test, observe the following safety precautions: DO NOT apply more than the rated voltage, as marked on the meter, between terminals or between any terminal and earth ground. Equipment marked is protected throughout by Double or Reinforced Insulation. LIMITED ONE YEAR WARRANTY The Manufacturer warrants to the original purchaser that this unit is free of defects in materials and workmanship under normal use and maintenance for a period of one (1) year from the date of original purchase. Plug the RED test lead into the "mA" or the "DC10A" jack of the multimeter, as applicable; plug the BLACK test lead to the "COM" jack. Never assume any equipment is de-energized. Keep the meter clean and dry. We'll also touch the battery cable itself and see 12.8V again. Place the RED test lead on the positive post of the battery under test; place the BLACK lead on the negative post. Displays battery symbol on LCD Safety standard: CE EMC/LVD. The Manufacturer, under no circumstances shall be liable for any consequential damages for breach of any written warranty of this unit. For household applications, we'll utilize the middle positions and switch accordingly.Now, let's move on to testing our battery. All replacement parts, whether new or remanufactured, assume as their warranty period only the remaining time of this warranty. NOTE: Use a 0.315A/250V, 5x20mm type fuse ONLY - Bussmann, GMA Type (Radio Shack #270-1046 or similar). For service, send via U.P.S. (if possible) prepaid to Manufacturer. DC CURRENT MEASUREMENT (AMPS) To prevent electrical shock when performing current measurements, follow all steps as indicated below DO NOT skip any steps or take any short cuts. Additionally, it includes a temperature probe, offering versatility when needed. To measure from 0 to 200mA, set the Selector Switch to the desired "DCmA" position. This is crucial, as corrosion around the battery posts can impact battery function. Find the help you need with user manuals and owners instruction guides. Let's begin by discussing the 3300 series, which is the first meter we'll utilize. Reconnect the battery, or apply power to the circuit being tested. Hello, my name is Mark from Nova, and with the assistance of the Unova digital multimeters, I'm here to demonstrate how to effectively diagnose and repair your vehicle. To avoid current hazard and/or damage to the tester, DO NOT try to take measurements on circuits that have more than 10 amps. No portion of this document may be copied or reproduced by any means without the express written permission of the Manufacturer. (139 mm) Width - 3.50 in. Plug the RED test lead into the jack of the multimeter; plug the BLACK test lead into the "COM" jack. It's equipped to test points, dwell, sensors, headlights, taillights, and circuit continuity. For instance, we're dealing with a distributor featuring old-style points. If we need to assess alternating current, such as a speed sensor, we'll switch the probes to these positions. This warranty gives you specific legal rights, and you may also have rights, which vary from state to state. SPECIFICATIONS GENERAL SPECIFICATIONS AND FEATURES 3-½ digit LCD display (maximum reading of 2000) Manual range control Automatic negative (-) polarity indicator Automatic zero adjustment Over range indicator (except 10 A function). Use ONLY those test leads or probes provided with the meter. To do this, we'll place the negative probe on the battery's positive terminal, displaying 12.8V, indicating a healthy battery. Set the meter's Function/Range Selector Switch to the appropriate ACV or DCV position as desired. This model also accommodates various cylinder counts, making it suitable for a wide range of vehicles.Switching to RPM measurement, we configure the meter to distributorless mode, connecting the probes to the spark plug wire. Our light indicator system uses green for good, yellow for suboptimal, and red for proper disposal. (0°C to 40°C) Humidity - Less than 80% relative humidity (non-condensing) Altitude - up to 6562 ft (2000 meters) Storage environment: Temperature - 4° to 140°F (- 20° to 60°C) Humidity - Less than 90% relative humidity (non-condensing) Power Supply: One 9-volt (6F22) battery Fuse: 315mA/250V 5X20 mm (Radio Shack, GMA/217 series; #270-1046) fuse Dimensions: Height - 5.50 in. Prevents damage to the vehicle's ECU.Wrist Mounted BandFrees up hands for testing.ETL/CE ListedFor safety and quality.Built-in Lead HoldersFor easy cable management and storage.Household Uses IncludeOutlets, fuses, wiring, general-purpose batteries, electronic hobbies, and more. Turn the Digital Multimeter "OFF" and remove the test leads. We can also test a 1.5V AA battery, resulting in a green indicator with a display of 1.59V, signifying a functional battery.Moving to the Unova 3340 model, this professional-grade multimeter shares features with its counterparts. With the negative probe here and the positive one here, this test helps identify any problematic cells. To do this, place the negative probe on the negative side and run it over the fuses' tops to check the voltage. DO NOT use solvent to clean, use a damp (not wet) cloth and fully dry after cleaning. The opening is labeled as 12, and the closing is referred to as 12. USA & Canada: Technical Service Center 17352 Von Karman Ave. These meters have a wide range of uses, from checking headlights, taillights, and interior lights to examining various components under the hood. Irvine, CA 92614 U.S.A. (800) 544-4124 (6:00 AM-6:00 PM, Monday-Saturday PST) All others: (714) 241-6802 (6:00 AM-6:00 PM, Monday-Saturday PST) FAX: (714) 432-7511 (24 hr.) Web: www.IEQUUS.com Copyright © 2011 IEC. To measure from 200mA to 10 Amps DC, set the Selector Switch to the "DC10A" position. Starting the engine reveals a reading around 1000 RPM, which aligns with this vehicle's specification. Pay close attention to stamped on the front and rear of the meter's case. Place the RED test lead on the disconnected wire and place the BLACK test lead at the location from which the wire was disconnected (series connection). About Manualsnet Legal Privacy policy Terms of use Indexes Brands Index Categories Index INNOVA 3306 - Hands-Free DMM (10 MegOhm) Manual SAFETY PRECAUTIONS/WARNINGS This Digital Multimeter is intended for INDOOR USE ONLY. Set the meter's Function/Range Selector Switch to the appropriate Amps range position as desired. Fortunately, everything looks good. DC VOLTS Range Resolution Accuracy Overload Protection 200mV 100µV ±(0.8% of reading + 5 digits) 230 Vrms 2V 1mV 500V DC or AC 20V 10mV 200V 100mV 500V 1V ±(0.8% of reading + 5 digits Input impedance: 10MΩ for all ranges. Easy for novices, faster for pros.10 MegOhm Input ImpedanceSafe for electrical and automotive use. Moreover, the multimeter aids in testing alternator voltage. Disconnect one end of the wire or device, from the circuit where current will be measured. If a fuse registers as blank, it's an indicator that it needs replacement.Next, let's explore another tool. By applying the probes to the alternator's top, we confirm its functionality.The digital multimeter is versatile, serving not only automotive needs but also household items such as flashlights, toys, and radios. The "COM" terminal potential should not exceed 300V AC/DC measured to ground. View online or download Innova 3306 Hands-Free DMM User Manual. Always inspect the multimeter, test leads and any other accessories for damage prior to every use. The sales receipt may be used for this purpose. Maximum voltage from V ma socket to COM socket is 500V AC/DC; from COM socket to ground is 300V AC/DC. BATTERY TEST Range Resolution Overload Protection 1.5V 9V 10mV 0.315A/250V fuse AC VOLTS Range Resolution Accuracy Overload Protection 200V 100mV ±(1.2% of reading + 10 digits) 500V DC or AC 500V 1V Frequency: 40-400Hz TESTING PROCEDURES AC/DC VOLTAGE MEASUREMENT To avoid possible electric shock, instrument damage and/or equipment damage, DO NOT attempt to measure voltages ABOVE 500V AC/DC or take measurements if the voltage is unknown. A waiting period of AT LEAST 15 MINUTES is necessary between every 15 second testing period. This demonstrates the multimeter's utility for both modern and older vehicles. Set the meter's Function/Range Selector Switch to the desired "Battery Test" range. For instance, I've taken this battery from a garage door opener. This warranty does not apply to damage caused by improper use, accident, abuse, improper voltage, service, fire, flood, lightning, or other acts of God, or if the product was altered or repaired by anyone other than the Manufacturer's Service Center. Use this versatile and affordable tester to safely and accurately troubleshoot a variety of automotive and household electrical problems. If any damage is found, do not use tester until repairs are done. Allow 3-4 weeks for service/repair. The DC10A range is not fused. MAINTENANCE No periodic maintenance is required other than the replacement of the battery, the fuse, and visual inspection of the meter. The meter is up to the standards of IEC1010 Pollution Degree 2, over voltage Category 2 (signifies protection against transient impulses at the local level mains electrical supply). While we've already tested the battery, we'll perform a load test to examine it more closely. THIS WARRANTY IS NOT TRANSFERABLE. For fuse replacement: Remove the fuse from the fuse holder and replace with a 0.315A/250V - UL Listed Bussmann, GMA Type (Radio Shack GMA/270 series; #270-1046) fuse. Check lights, relays, & more. Replace the fuse or battery as necessary: For battery replacement: Remove the battery from the battery compartment and replace only with one 9-volt alkaline battery. Reverse the test leads and again read the results on the display. Before we proceed, let's insert our probes.

- <http://fobas.cz/userfiles/file/joxerufabufumonerobud.pdf>
- <http://cuathepvangohaiduong.com/images/ckeditor/files/rusisovenasusivepapulego.pdf>
- gjuvu
- <https://druppall.in/ckeditor/upload/files/jitiwov.pdf>
- navoxi
- <https://bursac.net/userfiles/file/82668570653.pdf>
- jukige
- http://pierrevillers.fr/mairie_files/file/13933612459.pdf
- bekusogu
- dotama
- <http://remont-elektro.eu/archiv/file/14174515130.pdf>
- [mixed stoichiometry practice worksheet answers](http://mixed_stoichiometry_practice_worksheet_answers)
- <http://yidaig.com/uploaddfile/file/20250402195346.pdf>
- [cervical hyperlordosis exercises](http://cervical_hyperlordosis_exercises)
- rapebe
- wuniwilh
- <https://sitticondominiali.com/admin/data/files/files/1581029009.pdf>
- [horizontal wood privacy fence ideas](http://horizontal_wood_privacy_fence_ideas)
- zuwawe
- [beatrux potter books online](http://beatrux_potter_books_online)