
MULTIMETERS

**511-60A CDI Digital Multimeter**

- Auto-ranging
- DC & AC volts range 0.0001 to 1000 volts
- Diode
- Continuity beeper
- Milli and Micro ampere (400mA MAX)
- Amps (10 amps MAX)
- Ohms
- Temperature
- Auto shutdown
- Back lighted display
- 511-9773-NL DVA Adapter

Includes 511-9773-NL DVA Adapter, storage case, test leads and manual.
Order P/N: 511-60 to get the multimeter without the DVA Adapter.

**518-114A Fluke 114 Multimeter**

- Auto-ranging
- DC & AC volts range 0.4 to 6000 volts
- Continuity beeper
- Ohms
- Auto shutdown
- Back lighted display
- 511-9773-NL DVA Adapter

Includes Test leads and manual.
Order P/N: 518-114 to get the multimeter without the 511-9773-NL DVA Adapter.

**518-115A Fluke 115 Multimeter**

- Auto-ranging
- DC & AC volts range 0.4 to 600 volts
- Amps 0.001 to 10 amps MAX
- Continuity beeper
- Ohms
- Diode
- Capacitance
- Min/Max Record
- Auto shutdown
- Back lighted display
- 511-9773-NL DVA Adapter

Includes Test leads and manual.
Order P/N: 518-115 to get the multimeter without the 511-9773-NL DVA Adapter.

SEE PAGE 5 FOR WARRANTY INFORMATION/ADDRESS FOR FLUKE PRODUCTS

MULTIMETERS

518-116A Fluke 116 Multimeter

- Auto-ranging
- DC & AC volts range 0.001 to 1000 volts
- Micro ampere (400mA MAX)
- Millivolt (1000mV MAX)
- Amps (10 amps MAX)
- Continuity beeper
- 511-9773-NL DVAAdapter
- Ohms
- Diode
- Duty Cycle/Frequency
- Min/Max Record
- Auto shutdown
- Back lighted display

Includes Test leads and manual.

Order P/N: 518-116 to get the multimeter without the 511-9773-NL DVAAdapter.



518-88-5 Fluke 88 Multimeter

- Auto-ranging
- DC & AC volts range 0.001 to 1000 volts
- Millivolt (1000mV MAX)
- Ohms
- Diode
- Pulse Width measurement for Fuel Injectors
- Amps (10 amps MAX)
- Frequency function
- Capacitance function
- Conductance measurement function
- Dwell and Duty functions
- Temperature function
- Min/Max function
- Continuity Beep
- RPM function for 2 and 4 stroke engines
- Backlight display
- Auto Shutdown
- Lifetime warranty

Includes Test leads, RPM pickup, DVAAdapter, Hard Case and manual.

NOTE: Replacement RPM Pickup - order P/N: 518-RPM80



518-61 Fluke Temperature Meter

- Shock-absorbing holster increases ruggedness
- Bright laser beam provides easy targeting
- Large display clearly supplies data at a glance
- 0.5° resolution up to 525°
- Quality backlight illuminates the screen in the dark
- Store and recall any single temperature
- Automatic sleep mode after 7 seconds extends battery life

Replaces: 772018



MULTIMETER ACCESSORIES



511-9900 Diagnostic Tool Kit

Kit contains a 511-60 Multimeter, 511-9766 Spark Tester, 511-9710 Trigger Tester, 511-9764 Neon Test Light, 511-9770 Piercing Probe Set, 511-9773-NL DVA Adapter, 511-9775 Pack Load Resistor, 511-9800 Multimeter Test Card, 553-2700 Amphenol Pin Tool Set, 912-9708 Terminal Kit, Troubleshooting Guide, Laminated DVA Charts and an Aluminum Storage case.

MULTIMETER ACCESSORIES



511-9773 DVA Adapter

DVA Adapter with built-in test leads has replaceable tips that fit most test clips..



511-9773-NL DVA Adapter

DVA Adapter uses your meters test leads.



511-9770 Piercing Probe Set

Set contains 1 Red and 1 Black test probe. Fully insulated probes have a spring loaded clamp with a tiny stainless steel pin that self centers and punctures the insulation.

SEE PAGE 5 FOR WARRANTY INFORMATION/ADDRESS FOR FLUKE PRODUCTS

511-CF72 Alligator Test Clips

Set contains 1 Red and 1 Black test clip for use with and standard multimeter test leads..



518-AC285 Alligator Test Clips

Set contains 1 Red and 1 Black test clip for use with the 518-TL222 and 518-TL224 Test Leads.



511-TL10 Test Lead Set

48 inch set contains 1 Red and 1 Black test lead.



518-TL220 Fluke Test Lead Set

Set contains 63" silicone-insulated TL222 Flexible Test Leads (one red and one black), stainless-steel TP220 Industrial Test Probes (one red and one black), and AC220 Industrial Alligator Clips (one red and one black).



511-9764 Neon Spark Tester 1 Cyl

Sealed spark tester can be used inline to the spark plug while the engine is running or it can be connected to engine ground for cranking speed tests.



511-9766 Spark Tester

Spark tester can be used to test from 1 to 8 cylinders. Sealed design reduces the possibility of fire.

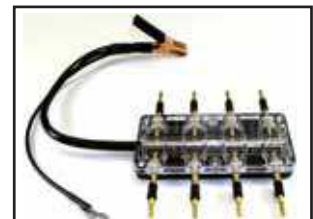
NOTE: If extension wires are needed, order P/N: 511-9903 (set of 4 wires).



511-9766T

Same design as the 511-9766 except the pins are designed for use where the spark plug tips are threaded instead of ball shaped.

Spark tester can be used to test from 1 to 8 cylinders. Sealed design reduces the possibility of fire.



METER ACCESSORIES & SPARK TESTERS

**519-S48 Spark Tester 8 Cyl**

Spark tester has adjustable open spark and can be divided into two sections when testing.

NOTE: Replacement spark plug wire tips are available - order P/N: 519-TA

**519-S48H Spark Tester 4 Cyl**

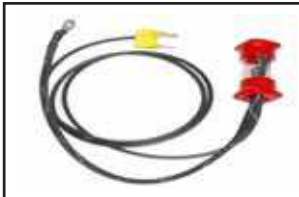
Spark tester has adjustable open spark.

NOTE: Replacement spark plug wire tips are available - order P/N: 519-TA

**511-9775 Pack Load Resistor**

Replaces: PL88

Use to replace ignition coil for testing DVA output from ignition pack if a bad coil is suspected.

**511-9772 Ampmeter Adapter**

Replaces: PL88

Use to replace ignition coil for testing DVA output from ignition pack if a bad coil is suspected.

**511-9756 Breakout Box**

Replaces: PL88

Use to replace ignition coil for testing DVA output from ignition pack if a bad coil is suspected.

**511-9776 Remote DVA Test Harness**

Designed for use with 1978-2000 Mercury engines with separate packs and ignition coils, Johnson/Evinrude 1973-2006 and Yamaha engines. When connected to the ignition coils, the 15 foot harness allows you to connect a DVA Adapter/Meter to the coils and switch cylinders while the engine is cranking, idling or running at wide open throttle. Can also be used to check trigger and stator voltages on some engines.

**551-9765 Spark Plug Wire Puller**

Ground clip greatly reduces the possibility of getting shocked.

TOOLS & ACCESSORIES

511-6996 Johnson/Evinrude Remote Starter

Remote Starter works with most J/E engines from 1975 (Red plug harness) to 2006. Replaces boat side control harness at the engine to eliminate the boat harness as a source of trouble.



511-7800 Mercury Remote Starter

Remote Starter works with most Mercury engines with through the splash pan plug-in harness to 1978. Replaces boat side control harness at the engine to eliminate the boat harness as a source of trouble.



511-7900 Mercury Remote Starter

Remote Starter works with most Mercury engines with the small cannon plug style head 1979-2006. Replaces boat side control harness at the engine to eliminate the boat harness as a source of trouble.



511-7950 Mercruiser Remote Starter

Remote Starter works with most Mercruiser engines with the large cannon plug style head plug-in harness to 2006. Replaces boat side control harness at the engine to eliminate the boat harness as a source of trouble.



511-9701 Battery CD Tester

Tests all battery CD units on the engine or on the bench by simulating trigger and points. Can also be used to pulse EFI injectors.



511-9710 Trigger Tester

Ideal for testing Mercury/Mariner triggers, Chrysler/Force triggers and Chrysler pre-amp and hall effect sensors, OMC 1988 and up V6 Quick Start timer bases. Also used on OMC OIS ignition, EFI.



TOOLS & ACCESSORIES



519-LB-85 Stevens Battery Load Bank

Provides a simple, effective method of loading a charging system to determine if it is functioning at its rated capacity. Load current is indicated on the LB-95 ammeter and may be varied from 0 to 50 amperes in 5 ampere steps, selected by four toggle switches.



453-7955 Ficht Diagnostic Cable

Replaces 437955

Diagnostic cable used to connect a laptop computer to the ECU/EMM on a Evinrude/Johnson FFI engine. DOES NOT INCLUDE SOFTWARE!!



520-ST80 GXT Inductive Timing Light

Heavy duty base timing light features dual trigger buttons to control light intensity: Normal, High, and Ultra High. Nothing brighter under the sun. Suitable for timing marine, industrial automotive and small engines. 12V battery powered (not included).

NOTE: Replacement inductive pickup - order P/N: 520-PR.



520-ST82 GXT Inductive Timing Light

Heavy duty Advance timing light features a large calibrated dial to measure timing advance. Ideal for high performance engine timing advance measurements. The 2/4 stroke switch enables use on direct coil and distributor ignitions.. Nothing brighter under the sun. Suitable for timing marine, industrial automotive and small engines. 12V battery powered (not included).

NOTE: Replacement inductive pickup - order P/N: 520-PR.



520-ST84 GXT Inductive Timing Light

Heavy duty Tachometer/Advance model is two instruments in one, allowing you to time engines without using a separate tachometer and timing light. Ideal for high performance engine timing advance measurements. Switchable from two stroke to four stroke. Reads RPM up to 8000 on two stroke setting. Extremely bright strobe shows up timing mark under direct sunlight. Suitable for timing marine, industrial automotive and small engines. 12V battery powered (not included). Highly recommended by the CDI Electronics Technical Support Team.

NOTE: Replacement inductive pickup - order P/N: 520-PR.

SEE PAGE 5 FOR WARRANTY INFORMATION/ADDRESS FOR GXT & STEVENS PRODUCTS

TOOLS & ACCESSORIES

519-T100 Stevens 100° Thermomelt Stick

100 Deg Long lasting Temp Stick provides a quick and reliable means to check cooling systems running too hot or too cold. With engine warmed up, use the temp stick like a crayon to make a mark on the head or block. The mark will appear dull and chalky until the temperature reaches 100 degrees and turns liquid and glossy.



519-T125 Stevens 125° Thermomelt Stick

125 Deg Long lasting Temp Stick. Same as the 100 except the melt temperature is at 125 Degrees before the mark turns glossy.



519-T131 Stevens 131° Thermomelt Stick

131 Deg Long lasting Temp Stick. Same as the 100 except the melt temperature is at 131 Degrees before the mark turns glossy.



519-T163 Stevens 163° Thermomelt Stick

163 Deg Long lasting Temp Stick. Same as the 100 except the melt temperature is at 163 Degrees before the mark turns glossy.



519-T175 Stevens 175° Thermomelt Stick

175 Deg Long lasting Temp Stick. Same as the 100 except the melt temperature is at 175 Degrees before the mark turns glossy.



TOOLS & ACCESSORIES

518-AC220 Alligator Clips

For use with TL222 & TL224) Safety-grip, spring-loaded alligator clips with a wide .787" (20mm) jaw opening. 1000V voltage Cat III (Heavy Industrial Rating), 10A rating. One red/one black clip.

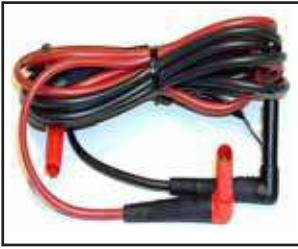


518-AC72A Alligator Clips

Economical, general purpose clips accept standard probe tips. Standard jaw opening of .313" (8mm). 1000V, 10A rating. One red/one black clip.



TEST LEADS & ACCESSORIES

**518-TL222 63 Inch Silicone Test Lead Set**

Silicone-insulated; won't crack from cold, or melt from an exhaust manifold. Molded rubber insulated leads stay flexible at -112°F (-80°C), won't melt at 302°F (150°C). Highly flexible leads resist kinks and bends; superior strain relief is also provided. Compatible with all meters accepting safety-shrouded, standard-sized banana plugs. One red and one black. 1000V, 10A rating. Shrouded right-angle connectors on both ends.

**518-TL224 63 Inch Silicone Test Lead Set**

Same as the 518-TL222 except the leads have a shrouded right-angle connector one end and straight connector on the other end.

**518-TL75 48 Inch Test Lead Set**

Low cost, general purpose test leads. Super strong tips and integral strain relief provided extended service life. Safety-shrouded, right-angled inputs. Standard on all DMM models (except 88). Rated for 1500V, 10A. One red and one black.

**518-TP220 Test Probe Set**

(For use with TL222 & TL224) Extra Sharp! Extra Strong! Very sharp, extra-long .750" (19mm) stainless steel tip. For reaching deep test points or recessed components; will pierce insulation. 1000V voltage Cat III 10A rating. One red and one black.

**518-C100 Universal Hard Carrying Case**

Double seal latches resist popping open if case is dropped. Includes compartments for holding accessories and manuals. Detachable lid for easy storage. Designed for 80 Series meters in holsters. 73, 77, 78, 23, 51 and 52 in holsters will fit loosely.

**518-C800 Universal Hard Carrying Case**

Smaller than C100. Double seal latches resist popping open if case is dropped. Includes compartments for holding accessories and manuals. Detachable lid for easy storage. Designed for 80 Series meters in holsters. 73, 77, 78, 23, 51 and 52 in holsters will fit loosely.

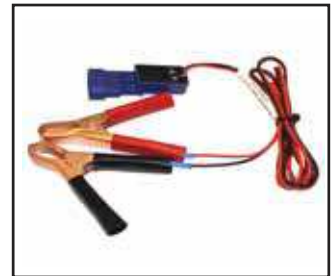
TESTERS & ACCESSORIES

511-4017 Optical Sensor Tester 4 & 6 Cyl

Replaces 434017 OMC OIS 2000 Sensor Tester.
Used to test the V4 and V6 Optical Sensor on the engine or on the bench. This tester allows optional eyes free operation by sounding a audible alert when used to set the ignition timing.

**511-4019 Optical Sensor Tester 3 Cyl**

Unique three cylinder Optical Sensor Tester. Use it to test the 3 cylinder Optical Sensor on the engine or on the bench. This tester eliminates the guesswork involved in testing this trigger sensor.

**511-7509K 6 CDM Module Test Kit 6 Cyl**

Test kit contains 6 CDM Modules and a 511-5207A 1 CDM Test Cable. Allows you to test up to a 6 cylinder engine using CDMs and speed up the repair job. When the job is complete, simply reorder the number of 114-7509 CDM Modules you used and the kit is ready for next time.

**511-5207A 1 CDM Module Test Harness**

Replaces: 84-825207A 1
24 inch long test harness for testing individual CDM Modules on the engine. Unique design allow you to break the kill circuit to the CDM under test without cutting the wire. Harness allow you to test the DVA voltages from the Stator and Trigger to the CDM Module.

**551-5110 Flywheel Holder**

Replaces: 771311
Holder belt is coated and impregnated for a more secure grip of the flywheel. Longer handle gives you more leverage with less effort.



PRESSURE & VACUUM TESTER



551-34PV Pressure & Vacuum Tester

Replaces both S34 and V34 Testers.
Combination unit does both pressure and vacuum testing in one unit. Simply flip a valve on the side and change it from vacuum to pressure. Includes 551-34HA Hose Assembly, 551-334M and 551-334S adapters.
NOTE: For a repair kit, order P/N: 551-34R.

Parts Included

551-334M Metric Adapter

551-334S Suzuki Adapter

551-334TN Threaded Nozzle

551-33HA Hose Assembly

551-34R Repair Kit

Seal repair kit for the 551-34PV vacuum/pressure tester.



551-34G Replacement Gauge

Replacement gauge for the 551-34PV vacuum/pressure tester.

TILT/TRIM HARNESSSES



852-9810 Tilt/Trim Relay Assembly

Universal 2 wire tilt/trim relay assembly. Includes 2 replaceable relays, mounting box and harness.



852-9820 Tilt/Trim Relay Assembly

Universal 2 wire tilt/trim relay assembly. Includes 2 replaceable relays, mounting box and harness.

NOTE: Replacement Fuse 852-9821

GEARCASE FILLER

551-33-1 Gearcase Filler

Replaces 551-33GF and S33 Gearcase fillers.

The new 3 gallon design filler makes it easier to fill or flush gearcases. Translucent plastic container allows you to check tank oil level. Sturdy tear-drop design resists tipping over. Includes the check valve venting system. The check valve on the vent allows you to remove the filler nozzle without losing any appreciable amount of lubricant. Includes 551-33CV E-Z Fill® and 551-33HA (listed below).



551-33CV Check Valve Assembly

Calibrated check valve creates air-lock to keep lube from running out while you install drain plug. Includes 4' hose. A must for all shops! Included with 551-33-1.



551-334M Metric Adapter

551-334S Suzuki Adapter

551-33VA Replacement Valve Assembly

551-33TN Threaded Nozzle

551-33UN Unthreaded Nozzle

551-334B Mercruriser Adapter

551-33PA Replacement Pump Assembly

551-33HA Replacement Hose Assembly

Includes hose, clamp, shutoff valve and threaded tip, unthreaded tip. Unique hose design can be used on other gearcase fillers.



**852-9809 Tilt/Trim Relay**

Replaces 18-5729 582472 584416 586147
586224 87-19761
12V, 40A for Power Trim/Tilt.

**852-9819 Tilt/Trim Relay**

Replaces 18-5737 828151A 1
12V, 40A for Power Trim/Tilt.

**989-3977 Threadlocker**

Loctite 243 Blue Threadlocker 0.5 ml tube

**989-8109 Heat Sink Compound**

Type 29 heat sink compound. Will not dry out or harden.
Recommended for use when mounting Rectifiers and Rectifier/
Regulators on Chrysler, Force, Mariner, Mercury, Nissan, Suzuki,
Tohatsu and, Yamaha engines. 1 oz tube.

**991-9705 Dielectric Gease**

Used to help seal connections and inhibit corrosion. Gives better
electrical contact and high voltage insulation. 3 oz tube.

**941-0606-R Red Battery Cable**

6 gauge, 6' (Red) Custom high temperature wire handles loads
normally carried by a 4 gauge wire

**941-0608-R Red Battery Cable**

6 gauge, 8' (Red) Custom high temperature wire handles loads
normally carried by a 4 gauge wire

941-0606-B Black Battery Cable

6 gauge, 6' (Black) Custom high temperature wire handles loads
normally carried by a 4 gauge wire

941-0608-B Black Battery Cable

6 gauge, 8' (Black) Custom high temperature wire handles loads
normally carried by a 4 gauge wire