

# 09 | SPECIALITY TOOLS

SP SPECIALITY TOOLS ARE THE TOOLS OF CHOICE FOR VEHICLE REPAIR. IT IS OUR PRIMARY GOAL TO MAKE REPAIRS EASIER AND FASTER, THEREFORE MORE ECONOMICAL. TO ACHIEVE THIS WE CONSTANTLY STRIVE TO DEVELOP NEW AND INNOVATIVE SPECIALITY TOOLS TO KEEP PACE WITH AN EVER CHANGING AUTOMOTIVE INDUSTRY.

## SUB-CATEGORIES:

ELECTRICAL DIAGNOSTIC	298
AUTO ELECTRICAL	305
BATTERY TOOLS	310
SENSOR SOCKETS	316
RADIO REMOVAL	316
ENGINE SERVICE	317
COOLING SERVICE	334
BRAKE & CLUTCH	337
STEERING & SUSPENSION	345
PULLERS	350
PANEL & TRIM	352
MEASURING	354
AUTO SPECIALITY	359
THREAD & STUD REPAIR	366
WORKSHOP GEAR	369
FLUID TRANSFER	377
LUBRICATION	379
TYRE SERVICE	381
LIGHTING	383



# ELECTRICAL DIAGNOSTIC

## ACCURATE DIAGNOSTIC TOOLS FOR ANY VEHICLE

Diagnosing vehicle problems used to be a guessing game. Today that's no longer necessary. SP Tools provides a wide range of diagnostic tools that mechanics can use to get accurate information on the problem in any vehicle.

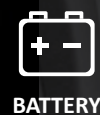
SP61170

### MULTI-FUNCTION SMART TOOL WITH WIFI & BUILT-IN PRINTER

SUPPORTS THE FULL SYSTEM AND FULL FUNCTION DIAGNOSIS OF MORE THAN 100 CAR BRANDS AROUND THE WORLD

The SP Smart Tool is a multi-function Android tablet based scan tool with an easy to use and understand user interface, capable of running sophisticated whole system diagnosis on more than 100 car brands from Europe, America, Asia and China and offers support to more than 20 common maintenance special functions, CAN FD, DoIP and various diagnosis protocols. Combining multiple professional tools into one, this SP Smart Tool is an essential tool for any modern professional workshop. The built-in printer allows technicians to print out hard copies of test reports on the go and the massive 64GB of on-board storage allows users to save test reports for later viewing and comparison.

# 5 TOOLS IN 1



#### BATTERY ANALYSER

- Two test modes - Out-of-car Inspection and In-car Inspection
- Analyses battery health and calculates the actual cold starting ability of the battery
- Battery bar code scanning for rapid test setup
- Battery matching enables you to perform a resetting operation on the monitoring unit of the vehicle's battery, in which the original low battery fault information will be cleared and battery matching will be done
- Test results based on CA, CCA, BCI, MCA, JIS, SAE, EN, GB, DIN & IEC standards
- Built-in printing functionality provides instant hard copy test results

#### TYRE PRESSURE MONITORING SYSTEM (TPMS)

Provides the ability to activate most OEM/Universal TPMS sensors, reprogram sensor IDs, retrieve/clear TPMS DTCs and relearn sensors, helping technicians quickly find out faulty TPMS and turn off MILs

#### DIAGNOSE VEHICLE ELECTRONIC CONTROL UNITS

- Connects via DLC (Data Link Connector) and quickly accesses all the electronic control units of the vehicle and generates a detailed report about vehicle health
- Compare pre- and post- repair reports and easily identify which DTC's are cleared and which remain unfixed
- Reads and clears generic and manufacturer specific diagnostic trouble codes (DTC's) and turns off check engine light
- Identifies which systems are installed on the vehicle
- Views and captures (records) real-time Live Data and saves the data in text format
- 3 Types of display modes available for data viewing, allowing you to view various types of parameters in the most suitable way - Text in list format, waveform graphs or in a merged graph for easy data comparison
- Update vehicle diagnostic software and APK
- Able to record diagnostic data that can serve as valuable information to help you in troubleshooting vehicle problems
- Able to run actuation test to access vehicle-specific subsystem and component tests

#### VEHICLE MAINTENANCE

This module provides an easy dial to quickly access the most commonly performed service functions as follows:

- Oil Reset Service
- Electronic Parking Brake Reset
- Steering Angle Calibration
- ABS Bleeding
- Gear Learning
- IMMO Service
- Injector Coding
- TPMS (Tyre Pressure Monitor System) Reset
- Battery Maintenance System (BMS) Reset
- Diesel Particulate Filter (DPF) Regeneration
- Electronic Throttle Position Reset
- AFS (Adaptive Front-lighting System) Reset
- AdBlue Reset (Diesel Engine Exhaust Gas Filter)
- Gearbox Matching
- Sunroof Initialization
- Suspension Calibration
- EGR Adaption
- Windows Calibration
- Seats Calibration
- Tyre Reset
- Language Change
- A/F Reset
- Coolant Bleed
- Transport Mode
- NOx Sensor Reset
- Stop/Start Reset

#### OPTIONAL VIDEOSCOPE ACCESSORY

- With forward and side facing cameras this probe allows technicians to quickly and easily inspect engine and vehicle components, without major disassembly.
- \* Note: Videoscope not included, available as SP61173

SP61173

### VIDEOSCOPE SP SMART TOOL ATTACHMENT

SUITS SP SMART TOOL - SP61170

- Dimmable front & Side Camera Lights
- Camera Diameter: 5.5mm
- View Angle: 60°
- Resolution: 1280x720Frame Rate: 30fps
- Flexible Camera Tube Length: 1m



#### TURN YOUR SP SMART TOOL INTO A VIDEOSCOPE

With forward and side facing cameras this probe allows technicians to quickly and easily inspect engine and vehicle components, without major disassembly



IN-CAR BATTERY TESTING



EMAIL OR PRINT RESULTS



CONNECTS TO WIFI



ON-BOARD STORAGE



MEMORY



6" TOUCH SCREEN



#### ACCESSORIES INCLUDED ALL HOUSED IN A HEAVY DUTY BLOW MOLD CASE

- SP Smart Tool
- Diagnostic cable - DLC
- Battery cable clamps
- USB Type-C cable
- 12v auxiliary power outlet cable
- OBD I adaptor box
- Non-16pin adaptor cable kit

\* Note: Videoscope not included, available as SP61173



DIGITAL MULTIMETERS



SP62011

DIGITAL AUTOMOTIVE MULTIMETER

- RPM measurement for 2–10 cylinder automotive engines using the inductive pick-up
- Oversized high contrast 9999 count LCD display with backlight
- 14 functions including DC/AC voltage, DC/AC current (max 20A), resistance, RPM (tach), dwell angle, duty cycle frequency, MS-pulse, temperature (°C/°F), capacitance, continuity & diode check
- Read pulse duty cycle & dwell angle for electronic fuel injection feedback carburetors and ignition
- Fused current inputs and overload protection on all ranges
- Measure milliseconds pulse width to test on-time of fuel injectors, idle air control motors & electronic transmission controls
- Data hold and relative functions
- Auto power off
- Auto ranging
- Back light

SET INCLUDES

- Digital Multimeter
- Probe Test Leads (Standard to Banana Plug)
- K-type Temperature Probe
- Inductive Pick-up
- 9v Battery
- Canvas Bag

SP62012

DIGITAL MULTIMETER ELECTRICAL

- 1999 counts digital display
- Safety Design Cat 2
- Back Light
- Data Hold
- Buzzer
- AC/DC Voltage
- DC Current
- Resistance
- Diode Test
- Temperature Continuity
- Transistor Test

SET INCLUDES

- Digital Multimeter
- Probe Test Leads (Standard to Banana Plug)



SP62015

DIGITAL MULTIMETER WITH TEMPERATURE GAUGE POCKET SIZE

- 1999 counts digital display
- Safety Design Cat 3 600v
- Non-contact ACV detection
- Data hold
- Auto ranging
- Type K temperature input
- Continuity, diode test, resistance
- Auto power off with low battery indicator

SET INCLUDES

- Mini Digital Multimeter
- Probe Test Leads (Standard to Banana Plug)
- K-type Temperature Probe



**NON-CONTACT AC VOLTAGE SENSOR**  
Detects and indicates live current in wire, even if no load is being drawn

WATCH THE PRODUCT DEMO VIDEO  
SCAN OR CLICK ME



MMMLSP

MULTIMETER DUAL TEST LEAD SET ALLIGATOR & STANDARD PROBE

SET INCLUDES

- Alligator Clip Test Lead Set
- Standard Probe Test Lead Set

ALLIGATOR CLIP TEST LEAD SET TO BANANA PLUG

- Insulated finger guarded alligator clips for easy application
- Silicon rubber insulated cable - 1m
- CAT III 1000V, 10A

STANDARD PROBE TEST LEAD SET TO BANANA PLUG

- Multi-rated probe tips with removable cap (CAT IV 600A) are insulated leaving only 2mm of exposed metal to prevent inadvertent bridging of live conductors and accidental short circuits
- Silicon rubber insulated cable - 1m
- CAT III 1000V, 10A



SUITS ALL SP MULTIMETERS

THERMOMETERS

SP62020

INFRARED THERMOMETER LASER GUIDED

- Dual laser technology (twin dots)
- Rapid detection function
- Precise non-contact measurements
- Automatic data hold
- °C/°F switch
- Unique flat surface, modern housing design
- Emissivity digitally adjustable from 0.10 to 1.0
- Max temperature displays
- Backlit LCD display
- Automatic selection range & display resolution 0.1°C (0.1°F)
- Trigger lock
- Set high & low alarms

APPLICATIONS

- Plant/general maintenance
- HVAC/R
- Transportation/automotive
- Cooling & reheating
- Service areas
- Food service equipment
- Cold storage



SP62022

MINI INFRARED THERMOMETER

- LCD display with backlight
- Single dot laser targeting
- Low battery indication
- Auto power off
- -20°C / 270°C Range (-4° F – 518°F)



TACHOMETERS

SP62032

DIGITAL TACHOMETER NON-CONTACT

- LCD display with backlight
- Laser target
- Range: 100 - 30,000rpm, 1.7 - 500rps
- Accuracy: +/- 0.1% reading (100.0 - 9,999rpm), +/- 0.02% reading (10,000 - 30,000rpm)
- Auto power off
- 1.5V x 3 AAA batteries
- Protective cover and carrying case



SP62030

TACHOMETER LASER ACTUATED

- Non contact measurement of RPM
- RPM range 2.5 – 99,999
- Instant and total RPM function
- Memory function
- 50mm – 2000mm range with reflective tape
- Accuracy +/- 0.05%
- Requires 4x 1.5V AA Batteries





**TIMING LIGHTS**

SP62040

**TIMING LIGHT ADJUSTABLE ADVANCE**

- Quickly tune-up cars, trucks, marine and recreational vehicles
- Works on conventional, electronic and computer controlled ignition systems on both adjustable and non-adjustable timing systems
- Patented Skip circuitry - Tests up to 10,000RPM
- Dial type timing advance (0° - 60° score)
- Heat resistant metal inductive pick-up
- One handed operation
- Detachable leads for easy replacement and use
- Protective hand guard for added safety
- Rotating barrel for better aim at timing mark
- Easy access slim-line barrel
- Optical correct lens



SP62042

**TIMING LIGHT PROFESSIONAL**

- 4 function digital display readout and easy to read backlit LCD
- Heavy duty inductive pick-up and clamps
- One handed operation
- Detachable leads for easy replacement and use
- Protective hand guard for added safety
- Rotating barrel for better aim at timing mark and LCD viewing angle
- Patented Skip circuitry - Tests up to 10,000 RPM
- Easy access slim-line barrel
- Optical correct lens
- Shock resistant boots
- Tachometer: 249 to 9,990 RPM (+/-1% accuracy)
- Advance degrees (2 and 4 cycle DIS and conventional): 0° to 90° (+/- 5° accuracy)
- Dwell: 0° to 180° /2-12 cylinders (+/-1% accuracy)
- Voltage: 10 to 16 volts DC (+/- 1% accuracy)



**BORESCOPES**

SP70935

**VIDEO BORESCOPE 6MM CAMERA HIGH RESOLUTION**

- 3.2" colour TFT LCD screen
- 1m long flexible, waterproof gooseneck imager head that easily performs visual inspections in hard to reach areas
- High visibility and 10° adjustable LED lighting
- Camera and video function supports audio and video recording
- Allows user to view image on LCD monitor and displays the current time and date
- Support SD memory card extension with built-in 75mb flash capacity
- Menu with multi-national languages
- Display resolution: 320 x 240px
- Video format: MPEG4/3GP/AVI/ASF
- Photo format: JPEG

HIGH RES COLOUR SCREEN



**SCANNER CODE READERS**

READ AND CLEAR GENERIC DIAGNOSTIC TROUBLE CODES (DTC'S) AND TURN OFF CHECK ENGINE LIGHT



SP61150

**SCANNER CODE READER CAN OBDII/EOBD**

- Covers OBDII compliant vehicles: Made in USA from 1996 on; Made in Europe petrol 2001 on & diesel 2004 on; Made in Australia or New Zealand from 2006 on. \*\* NOTE- Japanese cars require JOBD \*\*
- Reads and clears generic and manufacturer specific diagnostic trouble codes (DTC's) and turns off check engine light
- Supports multiple trouble code requests: Generic codes, pending codes and manufacturer specific codes
- Code definitions are displayed on unit screen
- Reviews the emission readiness status of OBDII Monitors
- Determines malfunction indicator lamp (MIL) status
- Retrieves VIN (Vehicle Identification No.) on 2002 and newer vehicles that supports Mode 9
- Reviews the live data on unit screen
- Easy to use with one plug in, highly reliable and accurate
- Stand-alone unit with no need for an additional laptop/computer to operate
- Small in size and comfortably fits in the palm of your hand
- Unit updates via internet by USB cable
- Software CD with over 10,000 DTC definitions included
- No batteries needed as the unit is powered via OBD2 cable



SP61155

**SCANNER CODE READER CAN OBDII/EOBD/JOBD**

- Covers OBDII compliant vehicles: Made in USA from 1996 on; Made in Europe petrol 2001 on & diesel 2004 on; Made in Australia or New Zealand from 2006 on. (Including the CAN, J1850 PWM, J1850 VPW, ISO9141 and KWP2000 protocols)
- Compliant with OBDII 16 PIN Toyota, Honda, Daihatsu, Mitsubishi, Mazda, Nissan, Suzuki & Subaru
- Reads and clears generic and manufacturer specific diagnostic trouble codes (DTC's) and turns off check engine light
- Wider vehicle coverage with CAN protocol support
- Supports multiple trouble code requests: Generic codes, pending codes and manufacturer specific codes
- Code definitions are displayed on unit screen
- Reviews the emission readiness status of OBDII Monitors
- Determines malfunction indicator lamp (MIL) status
- Retrieves VIN (Vehicle Identification No.) on 2002 and newer vehicles that supports Mode 9
- Reviews the live data on unit screen. Review live data graph with four items in one screen
- Stand-alone unit with no need for an additional laptop or computer to operate
- Small in size and comfortably fits in the palm of your hand
- Unit updates via internet by USB cable
- Software CD with over 10,000 DTC definitions included
- No batteries needed as the unit is powered via OBD2 cable
- 2.8" TFT colour screen displays more information on screen



LARGE COLOUR SCREEN

**IS YOUR VEHICLE COMPATIBLE?**

ENSURE YOUR VEHICLE IS COMPATIBLE BEFORE PURCHASE

Head over to the SP Tools Website for a list of known CAN OBDII/EOBD & CAN OBDII/EOBD/JOBD compliant vehicles, if your vehicle is not on the list or you are unsure, contact your vehicle manufacturer or dealership to find out.

[WWW.SPTOOLS.COM](http://WWW.SPTOOLS.COM)

SEARCH BY PART NUMBER SP61150 & SP61155

Software available through support tab.



**STETHOSCOPE**



SP62001

**MECHANICS STETHOSCOPE**

- High grade instrument made from quality materials
- Metal ear piece and thick flexible tubing
- Quality diaphragm assembly
- Assists in locating abnormal mechanical sounds within a component
- Ensures targeted sounds are transmitted clearly
- Minimises phantom and background noises
- A probe length of 285mm and tube length of 600mm
- Extra reach when working in confined areas
- An essential diagnostic tool for fault finding in vehicle engines and engine bays, under-body, transmissions, differentials & bearings

**PRESSURE & VACUUM DIAGNOSTIC PUMPS**



REAR MOUNT GAUGE  
Optimum viewing angle

QUICK TWIST SWITCH  
Switch between pressure  
& vacuum modes

QUICK CONNECT  
HOSES

SP80020

**DIAGNOSTIC PUMP KIT - DUAL MODE  
2 WAY - QUICK SWITCH**

- High quality diagnostic tool
- 2-Way pressure and vacuum test functions
- Patented design - Intuitive rotary dial mode switch - Pistol grip with lever
- High volume efficiency in both pressure and vacuum modes
- Manufactured from reinforced composite materials - Very high strength - High impact resistance - Excellent chemical resistance
- Integrated rear mount gauge - Optimum viewing angle - Maximum impact protection
- High quality silicon material hoses with quick couple hose fittings - Quick hose interchange - No leaks under vacuum or pressure
- Housed in heavy duty blow mould storage case

**DUAL MODE PRESSURE AND VACUUM FUNCTIONS:**

**PRESSURE MODE:**

- Monitor turbo charger boost pressure
- Test and adjust turbo charger waste gate actuators
- Test pressure operated central locking systems
- Test fuel tank vent valves
- Test one way valves
- Diagnose small engine faults

**VACUUM MODE:**

- Test EGR valve
- Test fuel pressure regulator
- Test map sensor
- Test thermal vacuum switches
- Test electric vacuum switches
- Test one way valves
- Test HVAC valves
- Test automatic transmission modulator valve
- Test central locking systems

Housed in  
heavy duty  
storage case



**AUTO ELECTRICAL**

Auto electrical tools are used to test, diagnose and repair electrical circuits in automotive 12 & 24 volt electrical systems.

SP Tools provides a range of high quality circuit testers, ignition tests and repair tools to solve any electrical problem a mechanic may find.

**CIRCUIT TESTERS**

SP61011

HEAVY DUTY

**CIRCUIT TESTER - SHORT PROBE  
6 TO 24V**

- Tests 6, 12 & 24 Volt electric circuits
- Sharp, short length probe
- Handle lights up if the circuit is good
- Long 1200mm lead (1.2m)
- Heavy duty insulated alligator clip



SP61014

HEAVY DUTY

**CIRCUIT TESTER - LONG PROBE  
6 TO 24V**

- Tests 6, 12 & 24 Volt electric circuits
- Heavy duty design and construction
- Sharp, extra long, insulated probe for access to hard to reach circuits
- Handle lights up if the circuit is good
- New coil cord design for ease of use
- Spring relief cord stretches to 3600mm (3.6m)
- Leads remain flexible in low temperatures
- Heavy duty insulated alligator clip



SP61021

**CIRCUIT TESTER  
6 TO 24V**

- Check 6-24 Volt systems
- Light for testing low voltage DC electrical circuits
- Check series parallel switches and solenoids
- Heavy duty contact crocodile clip and bulb
- High impact transparent handle
- Steel probe
- Extra long lead - 1200mm (1.2m)



T861010

**CIRCUIT TESTER - 888 SERIES  
6 TO 24V**



- Check 6-24 Volt systems
- Professional quality tester with solid brass body housing and test light
- Globe illuminates to indicate active power
- Insulation piercing contact point with protective brass screw cap
- Supplied with 850mm of insulated cable with crocodile clip
- Suitable for automotive or marine use

