

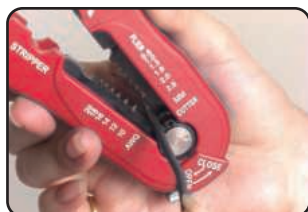


Electrical / Cable

2-1 **Terminal release tool**



2-14 **Wire stripper tool**



2-34 **Terminal crimping tool**



2-2 **Radio removal tool**



2-16 **Cable stripper tool**



2-35

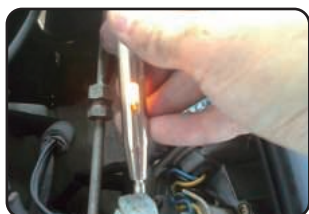
2-3 **Battery tool**



2-17 **Insulated tool**



2-8 **Circuit tester tool (DC)**



2-31 **Circuit tester tool (AC)**



2-13 **Terminal pliers**



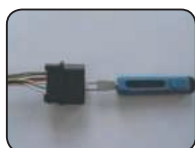
2-32 **Cable cutter tool**



2-14

2-33

12pc Universal terminal release tool set



912C1

 10/7.7/8.7/1.1'

 770g

- Easy, quick and professional repair of malfunctions due to loose contacts.
- Basic set for about 80% all plug-type connections in passenger cars for damage-free releasing of plug-type connectors, e.g. flat and round connectors.
- Universal application in the field of car electricity.
- 2-coloured plastic handles with foldable caps protecting the blades from damage and avoiding the risk of injury.
- Application:
Ford, BMW, Mercedes-Benz, Opel, VW, Fiat, MAN, Saab, Renault, Daimler Chrysler, Porsche, PSA, Skoda, Audi, Mazda, Toyota.

23pc Terminal release tool set



923C1

 12/19/20/4.0'

 1583g

- Designed especially to release terminals from the plastic connectors without damaging them.
- Release terminals on most of the body wiring connectors.
- Applicable: suitable for most vehicles.

Connector removal tool for VAG

NEW



9C2010

 72/5.5/6.5/1.27'

 75g

- The safe and proper way to remove most VAG push & pull connectors.
- This kind of electrical connector is often found on mass air flow (MAF) sensor, coil packs, headlights/fog lights, level sensors, MAP sensors, and etc...
- Suitable for VAG group: VW, Audi, Porsche, and etc...



10pc Radio removal tool set



910C1

 100/10.2/11.2/0.58'  102g

- For: Ford/VW/Audi; BMW; New Beetle/Audi; Mercedes, New porsche; VW; BMW



18pc Radio removal tool set



918C1

 100/15.4/16.4 /1.2'  154g

- Designed to remove radio easily without damage.
- For VW, Ford, Audi, Grundig, Blaupunkt, BMW, Becker, Mercedes-Benz, Porsche, Opel, Skoda.

20pc Radio removal tool set



920C1

 100/17.5/18.5/1.2'  175g

- Designed to remove radio easily without damage.
- For Alfa, Fiat, VW, Ford, Renault, Audi, Grundig, Blaupunkt, BMW, Becker, Mercedes-Benz, Porsche, Opel, Skoda, Peugeot.
- For JVC, Pioneer, Clarion.



ELECTRICAL / CABLE



10pc Mercedes-Benz Dashboard service tool set



910C3



48/17.9/18.9/3.5"



373g

- Removal hooks for instrument cluster on models W107, W116, W123, W124, W126, W140, and W201.
- Removal tools for ignition lock on models W126, W124 & W201.
- Radio removal tool on model W129, W140, W202, and W210.



Bulbs pliers



9G0302



120/5/6/2.0"



42g

- Special pliers for mounting and dismounting wedge base bulbs.
- Use for most of the car.



Battery terminal & wiper pick-up tool



9C2001



72/22.9/23.9/2.0"



320g

- To work for battery terminals and windshield wipers etc.
- The tight terminals will be lifted off without damage to the battery case or posts because the sharp jaws are able to engage either below or on the sides of terminals.
- The center screw swivel also makes this puller very effective on the alternator bearings.



Battery terminal / alternator bearing puller



9C2002



60/23.6/24.6/1.8"



393g

- The tight terminals will be lifted off without damage to the battery case or posts because the sharp jaws are able to engage either below or on the sides of terminals.
- The center screw swivel also makes this puller very effective on the alternator bearings.



Battery brush



9U3002



120/9.7/10.7/1.7"



81g

- Designed for cleaning the battery terminals.
- There are two sides for using.



Battery holder



9C2005



24/13/14/3"



541g

- Self locking design with rubber grip pads provide a secure grip on batteries 4-1/2" to 7" width.
- Suitable for top and side terminal batteries.
- Allow one handed lifting of battery in awkward location.
- Heavy duty zinc-plated steel construction for long life.



Auto memory saving kit

9C2008

 144/10/11/2.1'

 40g



- Maintains the memory of car radios, clocks and computer functions when battery is disconnected.
- Simply attach a 9-volt battery and plug into cigarette lighter.
- Will retain settings up to 4 hours.
- Will not power any lights or other accessories.



Power backup supply

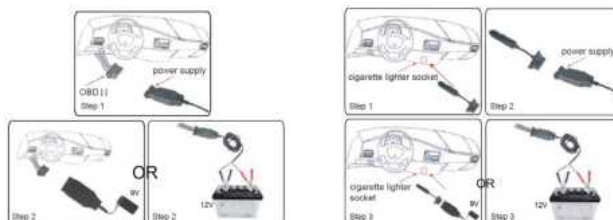
903C1

 20/4.4/5.4/1.5'

 230g



- Special adapter to prevent lose any data from replacing car battery.
- Connect adapter from battery 9V Battery (not included) or 12V Battery (not included) to OBD II Plug for Continue Power Supply.
- High visibility: LEDs display.



Vehicle battery tester

NEW

88439

 12/4.7/5.7/0.96'

 392g



- This is a device to test the 12 volt lead-acid battery of any vehicle.
- The tester will focus on health condition analysis of vehicle battery.
- It will estimate the cold cranking ampere (CCA) of the vehicle, and predict the lifetime of the battery.
- This will be helpful for the technician to inspect and maintain the electrical system of the vehicle.
- Base on the inspection, user can predict the time to replace the battery.

Battery hydrometer tester



9G4005

100/14/16/6.2'

91g

- Avoid dead battery and thus help to extend battery life.
- Test battery life - hot or cold, and thus help to prevent overcharge.
- Applicable: 6, 12, 24 volts system.



Super mini booster (14AH)

NEW



885G11

4/21.7/22.8/1.35'

5425g

- The super mini booster is handy to carry just in case you need to jump start your vehicle.
- Can be used to power accessories, such as your spotlight, air compressor, DVD player, radio, electric fan, electric cooler boxes, even your mobile phone...etc.
- Equipped: 5V USB port x2, two bright LED lights, cigarette lighter DC 12V / Max. 10A, voltmeter.
- Charging power: AC100-240V adaptor / DC 12V via car cigarette lighter, solar panel
- Instant max current: 1200 ampere.
- Battery capacity: Acid battery DC 12V / 14AH.
- Applicable range: Petrol 4~8 cylinder up to 6.5L
Diesel up to 3.0L

Super mini booster (20AH)

NEW



885G12

4/30/31.2/1.35'

7500g

- The super mini booster is handy to carry just in case you need to jump start your vehicle.
- Can be used to power accessories, such as your spotlight, air compressor, DVD player, radio, electric fan, electric cooler boxes, even your mobile phone...etc.
- Equipped: 5V USB port x2, two bright LED lights, cigarette lighter DC 12V / Max. 10A, voltmeter.
- Charging power: AC 100-240V adaptor / DC 12V via car cigarette lighter, solar panel
- Instant max current: 1800 ampere.
- Battery capacity: Acid battery DC 12V / 20AH.
- Applicable range: All 12V vehicles.



ELECTRICAL / CABLE



Vehicle actuator tester


88435

20/0.8/1.8/0.4'

60g

- Test electronic components by magnetic field or electronic magnetic field.
- Like actuator, ignition coil, AC generator, indoor air blower, spark plug, relay and hall effect sensor.
- Description:
 1. Positive and Negative sensor
 2. Two sensitive level indicator: Red LED - Strong; Yellow LED- Weak
 3. LED and Buzzer indication



Cigarette lighter release tool for AUDI


9C2009

100/15.5/16.5/1.0'

153g

- Used for removing 12 volt socket.
- Application:
Audi A4 (01~), A4 (08~), Q5 (08~), A6 (05~), Q7 (07~)



Relay tester

NEW

88438

12/4/5/0.96'

340g

- This is the device to test 3 popular vehicle relays. The testing result will be displayed by led indication
- Technician is able to use the device to figure out the condition of the relay, and so speculating the problem in the vehicle.
- Power supplied: 12V/24V vehicle battery.
- Support both 4 pin/5 pin relay.
- Problem pin indication.



Dualite high and low voltage trouble shooter



88421



100/5.9/6.9/2.6'



59g

- Checks 6 and 12 volt system, circuit tester & spark plugs tester (two testers in one.)
- On secondary or high voltage circuits check out spark plugs.
- Checks breaks in radio resistant hook ups.
- Pin point minute cracks in distributor caps.
- Use as a continuity tester and check on low voltage circuits.
- Extra long 48-in leads.

Circuit voltage tester

NEW



88423A



100/6/7/3.2'



60g

- Checks 6-24V DC
- Fully shielded indicator bulb.
- Insulated test lead with alligator clip.
- Pointed probe for piercing wires.



Auto battery and charging system analyzer



88424



200/9/10/3.0'



45g

- Checks 12 volt system
- Auto battery analyzer checks batteries, regulators and alternators.
- With LED indicator that helps pinpoint problems for fast troubleshooting.



Cordless circuit tester

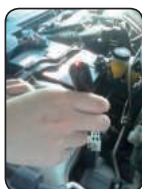


88425

 60/3.8/4.8/0.78'

 63g

- Detects from 3 to 28 volts.
- Safe with ECMs, sensors, transducers, airbags, etc..
- No ground wire or clip required.
- Replaceable long-life alkaline batteries included.



Automotive multi-tester



88426

 48/4.1/5.1/1.3'

 86g

- Voltage, battery, alternator multi-checker for all 12 V DC systems.
- With a "Magnetic board" on the back side to fix on suitable metal sheet of car easily.
- 6 LED indicators to show battery charge situation and high or low output of alternator.



Auto tester



88427

 100/8.4/9.4/3.2'

 84g

- Circuit tester with test lead for either passenger car or trucks.
- Checks circuit between 3-48 volt.
- LED display shows polarity.



Heavy duty circuit tester

NEW



88432A



50/10.5/11.5/2.2'



148g

- Check on 6/12/24V DC systems.
- This can be helpful for tracing faults or adding cables to a circuit.
- 5-ft flexible rubber wire with spring relief.
- Heavy duty insulated alligator clip.

Digital circuit tester

NEW



88436



60/11/12/1.5



172g

- Features an easy-to-read LCD digital display which shows the accurate voltage value.
- Compatible with most vehicles including: cars, motorcycles, commercial vehicles, trailers, boats, agricultural machinery and mild hybrid vehicles.
- Suitable for testing on 6/ 12 /24/ 42/48V DC systems.
- With a spring cable which can be extended to 3m (12ft).



Terminal test kit



919C1



20/13/14/1.62'



650g

- Terminals include Weather-Pack, Metri-Pack, and Micro-Pack style terminals.
- Use this tester to check high and low voltages (power and ground) on 6-24 Volt system.

Contents:

- 14pc Terminal adapter kit.
- 1pc Circuit tester, wire length 12 ft.
- 1pc Banana socket.
- 1pc Testing needle.
- 2pc Alligator.

Multi-functional auto circuit tester with LCD display

88444

 10/11/12/1.7'

 1.1kg



- Checks from 6 V to 24 V system with LCD indicator and LED illumination.
- Four modes can be selected by depressing the mode button and cycling through each one.
- Voltage meter
- Locate missing cylinders.
- Measuring rotational speed (Measuring the frequency of the high-tension ignition pulses).
- Peak detection
- Include a cigarette lighter adapter, a hook-up clip, and extension 20ft lead.
- Extension probe (85 mm) included.
- Instruction manual included.



Digital automotive meter

NEW

88445

 12/11/12.5/1.6'

 844g



- Auto ranging
- Auto power off
- Overload protections
- Safety input jacks
- Safety test leads
- RPM: 600-3200, 6000-12000 $\pm 2\%$
- Dwell Angle: 4, 5, 6, 8 Cylinders $\pm 2\%$
- Duty cycle: 0-90% $>100\mu s$, $<100ms \pm 2.0\%$
- DC Volts: 400mV, 4V, 40V, 400V, 600V $\pm 1.0\%$
- AC Volts: 400mV, 4V, 40V, 400V, 600V $\pm 2.0\%$
- DC Current: 400uA, 4000uA, 40mA, 400mA, 10A $\pm 2.0\%$
- AC Current: 400uA, 4000uA, 40mA, 400mA, 10A $\pm 2.0\%$
- Resistance: 400 Ω , 4k, 40k, 400k, 4M, 40M $\Omega \pm 1.5\%$
- Frequency: 10 Hz - 400kHz $\pm 0.1\%$
- Temperature: -20°C to 1000°C,
-4°F to 1832°F $\pm 2.0\%$ k-Type thermocouple
- Resolution: 1RPM, 0.1mV, 0.1uA, 0.1 Ω , 1Hz, 0.1°C, 0.1°F
- Diode test
- Continuity test
- Data Hold

Multi-purpose connector set



990C1

4/11.2/12.2/2.9'

2850g

- When checking the parts, it could connect the back of terminal directly, would not to damage the circuit or cut the electric wires, reduce the circuit rust and avoid adding impedance.
- Apply to any Automotive Multi-meter, the extended line of prove for oscilloscope. More convenient connection and checking rapidly.
- Variable Resister can simulate the pretend signal of coolant temperature sensor, throttle valve sensor and send the pretend signal to computer.
- Equip 2 sets LED light. It can supervise hall effect, photoelectric signal, nozzle, electromagnetic valve, electromagnetic valve of transmission shift gear...and control signals.
- SRS Connector can simulate airbag and routed contracting device of safety belt to avoid accident or miss-judgment

13pc Probe and test adaptor set



913C1

20/10.3/11.3/1.2'

515g

- Apply to any Automotive Multi-meter, the extended line of probe for oscilloscope.
- More convenient connection and quicker checking .
- When checking the electric current, only use the lines to connect the circuit, do not need to cut the electric wires.
- Various wires in this box, it is suitable for the Europe, America and Japan terminal.



2pc Insulator pierce-through clip



902C1

48/5.1/6.1/2.0'

107g

- Applicative wire diameter: Ø1.5 - Ø4.5
- Voltage range: 0-30 V
- Current load: Max. 5 A



Ratchet terminal tool kit



68013



10/10.4/11.4/1.0'



1060g

- Crimps insulation, non-insulation & open barrel terminals.
- Built-in ratchet with safety release assures uniform crimp every time.
- It releases and opens automatically when crimping is done.
- Applicable:
Insulated terminal (0.5-1.0/1.5-2.5/4.0-6.0 mm²) (68013-H1)
Non-insulated terminal (1/2/4/6-10 mm²) (68013-H15)
Open barrel non-insulated terminal
(0.5-1.0/1.1-2.5/4.0-6.0 mm²) (68013-H3)
Cord-end insulated terminal
(0.5/0.75/1.0/1.5/2.5/4.0 mm²) (68013-H2)

Contents:

- 1pc Terminal pliers. (6803) (include 1pc 68013-H3)
- 3pc Die nests. (68013-H1, 68013-H2, 68013-H15)
- 1pc Wire stripper.
- 1pc Hex key wrench.

Terminal pliers red, blue, yellow



6801



30/16.2/17.2/1.3'



540g

- For terminal:



(The terminals are not included.)

Terminal pliers 0.5; 0.75; 1.0; 1.5; 2.5; 4



6802



30/16.5/17.5/1.3'



550g

- For terminal:



(The terminals are not included.)

Terminal pliers 0.5-1; 1.1-2.5; 4-6



6803

30/15.9/16.9/1.3' 530g

- For terminal:



(The terminals are not included.)

Crimp lever pliers



6807

30/16.5/17.5/1.3' 550g

- Suitable for RG58, RG59/62, BNC/TNC coaxial connectors
- Size: 0.256 (6.48 mm), 0.319 (8.13 mm), 0.068 (1.73 mm), 0.213 (5.41 mm)

Terminal pliers 1; 2; 4; 6-10



68015

30/17.1/18.1/1.3' 570g

- For terminal:



(The terminals are not included.)

Stripper pliers



6804

60/14.3/15.5/1.7' 220g

- Two functions:

A cutter & a stripper for electrical cables of 0.2 mm² to 6 mm² in diameter.



ELECTRICAL / CABLE



Multi-functional stripper pliers



6805A



60/20.1/21.1/2.5'



335g

- Remove the layer and cut off the wire of AWG 10-AWG 24 (0.2-6.0 mm²). The tool will not damage the internal lines but keep the terminal steady.
- Crimp 10-22 AWG (0.5-6.0 mm²) insulated terminals.
- Crimp 10-22 AWG (0.5-6.0 mm²) non-insulated terminals.
- Crimp 7-8 mm ignition terminals.

Multi-purpose crimping tool

NEW



6806A



40/12/13/1.1'



258g

- Wire cutter
- Crimping non-insulated terminals: 1.5, 2.5, 4-6 mm²
- Crimping open-barrel terminals: 0.5, 2.5, 4-6 mm²
- Cutting bolt: M2.5, M3, M3.5, M4, M5
- Crimping insulated terminals: 0.5-1.5, 1.5-2.5, 2.5-6 mm²
- Wire stripper: 0.75, 1.0, 1.5, 2.5, 4.0, 5-6 mm²
AWG 20-22, 18-20, 16-18, 14-16, 12-14, 10-12

Cable, wire stripper



68011



200/25.5/26.5/3.1'



125g

- Remove the layer and cut off the electrical cable
- For wire 0.8-2.6 mm
- Cable stripper for the wire under 9.5 mm



Cable stripper



6808

100/10/11/1.8'

100g

- Able to strip cable up to 4 mm - 28 mm (dia.).

Cable stripper



6809

100/11/12/2.1'

100g

- Able to strip cable up to 8 mm - 28 mm (dia.).

Cable stripper



68010

100/12.5/13.5/2.0'

220g

- Able to strip cable up to 4.5 mm - 25 mm (dia.).

Telecrimper

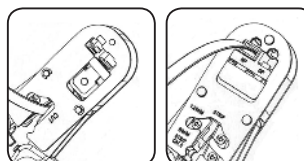


68012

48/20.7/21.7/2'

400g

- Cuts, strips & crimps integral in one tool.
- With built-in length stop for precisely length stripping.
- 2 crimp functions with a single tool without changing dies.
- Advanced ratchet system.
- Precision CNC grounded crimping teeth.
- Crimp RJ45 & RJ11 Modular plugs.





ELECTRICAL / CABLE

31pc 3/8"DR. Insulated combination set



3313N

3/12.1/13.1/1.5' 4000g

	14pc	6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
	1pc	Insulated ratchet handle 45teeth (802320N)
	2pc	6" (150 mm); 10" (250 mm)
	1pc	7" (175 mm)
	1pc	6.3" (160 mm)
	1pc	6.3" (160 mm)
	2pc	PH.1 (80 mmL); PH.2 (100 mmL)
	3pc	2.5 mm (75 mmL); 4 mm (100 mmL); 5.5 mm (125 mmL)
	5pc	7; 8; 10; 12; 14 mm
	1pc	Multi-function screwdriver voltage tester 110-250 V AC (88411)

10pc Insulated plier and screwdriver set



51016N

3/9.1/10.1/1.5' 3030g

	1pc	Muti-functional stripper pliers (6805A)
	1pc	8" (200 mm)
	1pc	8" (200 mm)
	1pc	8" (200 mm)
	2pc	PH.1 (80 mmL); PH.2 (100 mmL)
	3pc	2.5 mm (75 mmL); 4 mm (100 mmL); 5.5 mm (125 mmL)
	1pc	Adjustable non-contact wire tracer (88407)

15pc Insulated combination set



5157N		 3/11.3/12.3/1.5'	 3758g
	1pc	10" (250 mm)	
	1pc	Muti-functional stripper pliers (6805A)	
	1pc	8" (200 mm)	
	1pc	8" (200 mm)	
	1pc	6.3" (160 mm)	
	2pc	PH.1 (80 mmL); PH.2 (100 mmL)	
	6pc	2.5 mm (75 mmL); 3 mm (100 mmL); 3.5 mm (100 mmL); 4 mm (100 mmL); 5.5 mm (125 mmL); 6.5 mm (150 mmL)	
	1pc	Curved 6" (150mm)	
	1pc	Multi-function screwdriver voltage tester 110-250 V AC (88411)	

17pc 3/8"DR. Insulated socket set



3173N		 10/20.7/21.7/1.97"	 2100g
	14pc	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm	
	1pc	Insulated ratchet handle 45teeth (802320N)	
	2pc	6" (150 mm); 10" (250 mm)	



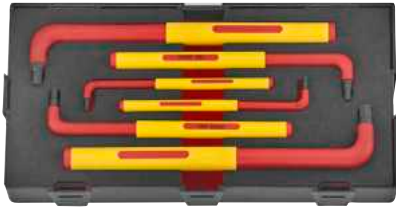
ELECTRICAL / CABLE





6pc Insulated extra long hex key set

NEW



K50641N			12/9.46/10.46/1.1'		788g
	6pc	2.5; 3; 4; 5; 6; 8 mm			

9pc Insulated extra long star key set

NEW



K50926N			6/6.9/7.9/0.78'		1152g
	9pc	T10, T15, T20, T25, T27, T30, T40, T45, T50			

Insulated combination pliers



6901225	<i>l</i>		
Part no.	mm-inch	packing	g
6901225	225-9"	30/15.8/16.8/1.5'	528

Insulated bent nose pliers



6902	<i>l</i>		
Part no.	mm-inch	packing	g
6902160	160-6"	60/11.1/12.1/1.9'	185
6902200	200-8"	60/17.4/18.4/1.87'	290



Insulated combination pliers



6903	<i>l</i>		
Part no.	mm-inch	packing	g
6903160	160-6"	60/15.0/16.0/2'	250
6903180	180-7"	60/18.0/19.0/2'	300
6903200	200-8"	60/22.5/23.5/2.1'	375

Insulated long nose pliers



6904	<i>l</i>		
Part no.	mm-inch	packing	g
6904160	160-6"	60/11.1/12.1/1.9'	185
6904200	200-8"	60/17.4/18.4/1.9'	290

Insulated diagonal cutting pliers



6905	<i>l</i>		
Part no.	mm-inch	packing	g
6905160	160-6"	60/14.4/15.4/2'	240
6905180	180-7"	60/20.0/21.0/2.1'	284

Insulated waterpump pliers (Curved jaw)



6907250	<i>l</i>		
Part no.	mm-inch	packing	g
6907250	250-10"	30/16.8/17.8/1.5'	280

Insulated long round nose pliers



6908160	<i>l</i>		
Part no.	mm-inch	packing	g
6908160	160-6"	60/10.2/11.2/1.9'	170

Insulated cable cutter



6909250	<i>l</i>		
Part no.	mm-inch	packing	g
6909250	250-10"	30/15.9/16.9/1.5'	530

Insulated diagonal pliers



6911	<i>l</i>		
Part no.	mm-inch	packing	g
6911180	180-7"	60/15.3/16.3/2'	255
6911200	200-8"	60/17.4/18.4/2'	290

Insulated wire stripper pliers



6912160	<i>l</i>		
Part no.	mm-inch	packing	g
6912160	160-6"	60/11.4/12.4/2'	190

Insulated flat nose pliers



6913160	<i>l</i>		
Part no.	mm-inch	packing	g
6913160	160-6"	60/12/13/1.9'	200

Insulated cable cutter



6914	<i>l</i>		
Part no.	mm-inch	packing	g
6914160	160-6"	60/12/13/2.8'	180
6914200	200-8"	60/18/19/2.1'	300

Multi-functional pliers

NEW



6915220	 48/17/18/0.9'	 286g
----------------	---	--

- Gripping
- Wire crimping
- Striping 1.5 & 2.5 mm² cable wires
- Superb cutting function



ELECTRICAL / CABLE



Insulated phillips screwdriver



711N		<i>l</i>	<i>L</i>		
Part no.	Tip	blade	over	g	pc/box
711N0	PH.0	60	145	32	10
711N1	PH.1	80	190	67	10
711N2	PH.2	100	220	100	10
711N3	PH.3	150	280	186	10

Insulated pozidriv screwdriver



712N		<i>l</i>	<i>L</i>		
Part no.	Tip	blade	over	g	pc/box
712N0	PZ.0	60	145	32	10
712N1	PZ.1	80	190	67	10
712N2	PZ.2	100	220	99	10
712N3	PZ.3	150	280	183	10

Insulated slotted screwdriver



713N		<i>l</i>	<i>L</i>		
Part no.	Tip	blade	over	g	pc/box
713N025	2.5	75	160	31	10
713N03	3	100	185	35	10
713N035	3.5	100	185	38	10
713N04	4	100	210	67	10
713N055	5.5	125	235	85	10
713N065	6.5	150	270	121	10
713N08	8	175	305	196	10

Insulated hex socket driver



744N		<i>l</i>	<i>L</i>		
Part no.	Tip	blade	over	g	pc/box
744N05	5	125	245	122	10
744N06	6	125	245	124	10
744N07	7	125	245	130	10
744N08	8	125	245	133	10
744N09	9	125	245	135	10
744N10	10	125	245	138	10
744N11	11	125	245	160	10
744N12	12	125	245	163	10
744N13	13	125	245	168	10

3/8"DR. Insulated 12pt. flank socket



539...N		<i>l</i>	
Part no.	mm	mm	g
53906N	6	43	28
53907N	7	43	30
53908N	8	43	30
53909N	9	43	30
53910N	10	43	30
53911N	11	43	30
53912N	12	44	30
53913N	13	44	31
53914N	14	44	38
53915N	15	44	47
53916N	16	46	47
53917N	17	46	54
53918N	18	46	58
53919N	19	46	61

3/8"DR. Insulated 6pt. flank socket

NEW



535...M		<i>l</i>	
Part no.	mm	mm	g
53506M	6	44.5	24
53507M	7	44.5	25
53508M	8	44.5	26
53509M	9	44.5	27
53510M	10	44.5	27
53511M	11	44.5	28
53512M	12	44.5	29
53513M	13	44.5	32
53514M	14	44.5	35
53515M	15	46	39
53516M	16	46	41
53517M	17	46	49
53518M	18	46	48
53519M	19	46	53
53520M	20	46	55
53521M	21	46	56
53522M	22	46	64
53524M	24	46	66

3/8"DR. Insulated 6pt. flank deep socket

NEW



53580...M		<i>l</i>	
Part no.	mm	mm	g
5358008M	8	80	49
5358010M	10	80	60
5358012M	12	80	68
5358013M	13	80	73
5358014M	14	80	76
5358017M	17	80	96
5358019M	19	80	110

3/8"DR. Insulated hex socket bit

NEW



334...M		<i>l</i>	
Part no.	mm	mm	g
33404M	4	64	37
33405M	5	64	38
33406M	6	64	39
33408M	8	64	42
33410M	10	64	52

3/8"DR. Insulated extension



8043...N	<i>l</i>	
Part no.	mm-inch	g
8043150N	150-6"	160
8043250N	250-10"	260

3/8"DR. Locking extension

NEW



8083...M	<i>l</i>		
Part no.	mm-inch	packing	g
808306M	150-6"	100/14.5/15.5/0.6'	140
808310M	250-10"	50/11.9/12.9/0.52'	228

3/8"DR. Insulated ratchet handle 45teeth



802320N	<i>l</i>		
Part no.	mm	packing	g
802320N	200	20/7.86/8.86/0.71'	354

3/8"DR. Insulated quick-release ratchet handle 45teeth

NEW



802320M



Part no.	mm	g
802320M	200	312

3/8"DR. Insulated extension T handle



7743200N



Part no.	mm	packing	g
7743200N	207	50/21.78/22.78/1.7'	400

Insulated open end wrench



829

Size



Part no.	mm	mm	g
82907	7	89	20
82908	8	99	26
82909 NEW	9	107.5	34.6
82910	10	114	40
82911 NEW	11	123	53.6
82912	12	134	61
82913 NEW	13	144	87.2
82914	14	155	96
82915 NEW	15	163	123.2
82916 NEW	16	163	117.2
82917	17	190	147
82918 NEW	18	180	141
82919 NEW	19	180	146.4
82920 NEW	20	194	198.8
82921 NEW	21	194	195.8
82922 NEW	22	194	191.8
82923 NEW	23	224	290.8
82924 NEW	24	224	293.6



ELECTRICAL / CABLE



Insulated 75° offset ring wrench



829A	Size	<i>l</i>	
Part no.	mm	mm	g
829A07	7	147	52
829A08	8	156	62
829A10	10	167	73
829A12	12	188	90
829A14	14	199	135

Insulated extra long hex key

NEW



764...N		<i>l</i>	<i>l</i>	
Part no.	Tip	short	long	g
764025N	2.5	25	133	15
76403N	3.0	25	133	15
76404N	4.0	35	171	58
76405N	5.0	35	171	58
76406N	6.0	46	216	162
76408N	8.0	46	216	164

Insulated extra long star key

NEW



766...N		<i>l</i>	<i>l</i>	
Part no.	Tip	short	long	g
76610N	T10	25	133	15
76615N	T15	25	133	15
76620N	T20	35	171	58
76625N	T25	35	171	58
76627N	T27	35	171	58
76630N	T30	35	171	58
76640N	T40	46	216	162
76645N	T45	46	216	163
76650N	T50	46	216	163

Fully insulated adjustable wrench



649M	<i>l</i>		
Part no.	mm	packing	g
649M200	200	40/13.6/16.5/1.20'	275
649M250	250	24/15.4/16.9/1.10'	530
649M300	300	16/16.0/17.5/1.05'	852

Insulated adjustable wrench



649N	<i>l</i>		
Part no.	mm	packing	g
649N200	200	64/18.2/19.2/0.81'	275
649N250	250	32/16.6/17.6/0.70'	505
649N300	300	16/15.4/16.9/1.10'	680

Insulated knife



83001



83002

830		<i>l</i>	
Part no.	shape	mm	g
83001	Straight	150	145
83002	Curved	150	148

Insulated scissors (with small breach)

NEW



6982M	 80/12.7/13.7/3.1'	 102g
-------	---	--

- Length: 160 mm
- Material: Stainless steel 420
- Surface finishing: Normal polished finish

3/8"DR. Insulated torque wrench



6473268N	Capacity		
Part no.	Nm	packing	g
6473268N	5-25	12/20.4/21.2/1.12'	1700



No.2182N

18pc Insulated screwdriver & pliers set

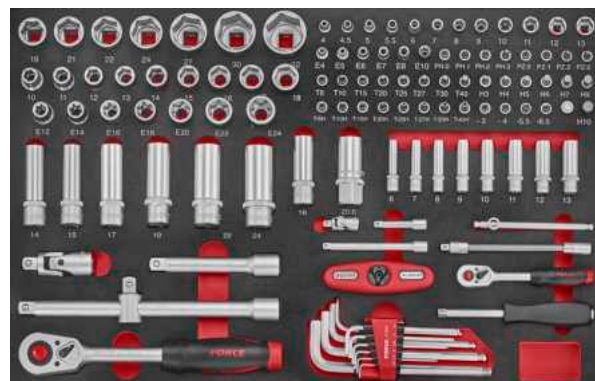
- 4pc Insulated phillips screwdriver
PH.0 (60mmL); PH.1 (80mmL); PH.2 (100mmL); PH.3 (150mmL)
- 7pc Insulated slotted screwdriver
2.5mm (75mmL); 3mm (100mmL); 3.5mm (100mmL);
4mm (100mmL); 5.5mm (125mmL); 6.5mm (150mmL);
8mm (175mmL)
- 1pc Insulated combination pliers 7"(180mm)
- 1pc Insulated long nose pliers 8"(200mm)
- 1pc Insulated diagonal pliers 8"(200mm)
- 1pc Insulated wire stripper pliers 6"(160mm)
- 1pc Insulated cable cutter 6"(160mm)
- 1pc Multi-purpose crimping tool
- 1pc Universal voltage tester
Testing range: 6~400V AC/DC



No.3262

26pc 3/8" DR. Insulated socket set

- 3/8" DR. Part
- 14pc Insulated 12pt. flange socket
6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
- 1pc Insulated torque wrench 5-25 Nm, 266mmL (6473268N)
- 1pc Insulated ratchet handle 45teeth (802320N)
- 2pc Insulated extension 6"(150mm); 10"(250mm)
- 1pc Insulated extension T handle 8"(207mm)
- Others
- 5pc Insulated open end wrench
7; 8; 10; 12; 14 mm
- 1pc Insulated cable knife (straight)
- 1pc Insulated cable knife (curve)



No.41161

116pc 1/4" & 1/2" DR. Socket set

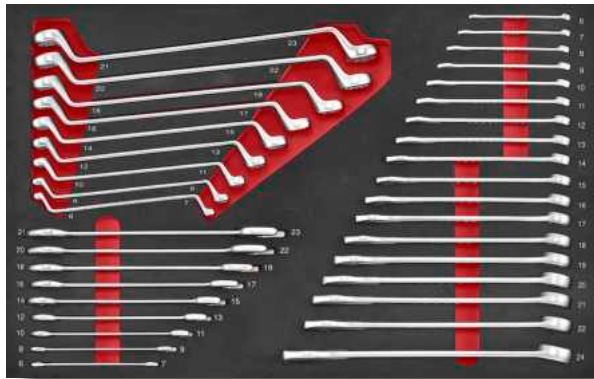
- 1/4" DR. Part
- 12pc 6pt. Flange socket
4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
- 8pc 6pt. Flange deep socket (50mmL)
6; 7; 8; 9; 10; 11; 12; 13 mm
- 6pc Star socket E4; E5; E6; E7; E8; E10
- 35pc Socket bit (32mmL)
 - Phillips PH.0; PH.1; PH.2; PH.3
 - Pozidriv PZ.0; PZ.1; PZ.2; PZ.3
 - Slotted 3; 4; 5.5; 6.5 mm
 - Hex 3; 4; 5; 6; 7; 8; 10 mm
 - Star T8; T10; T15; T20; T25; T27; T30; T40
 - Star tamperproof
T-8H; T-10H; T-15H; T-20H; T-25H; T-27H; T-30H; T-40H
- 1pc Quick-release pear ratchet handle 20teeth (802215)
- 1pc T mini ratchet handle 48teeth (802220)
- 2pc Extension 2"(50mm); 4"(100mm)
- 1pc Sliding T handle 4.5"(115mm)
- 1pc Universal joint
- 1pc Flexible extension 5.8"(145mm)
- 1pc Magnetic socket pick-up (25mmL)
- 1pc Spinner 6"(150mm) with 1/4" DR. (F)
- 1/2" DR. Part
- 16pc 6pt. Flange socket
10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32mm
- 6pc 6pt. Flange deep socket (77mmL) 14; 15; 17; 19; 22; 24mm
- 7pc Star socket E12; E14; E16; E18; E20; E22; E24
- 2pc Spark plug socket 16; 20.6 mm
- 1pc Quick-release pear ratchet handle 36teeth (802415)
- 2pc Extension 5"(125mm); 10"(250mm)
- 1pc Universal joint
- 1pc Adaptor for extension 3/8"(F)x1/2"(M)
- Others
- 10pc Long hex ball point key (5102LB)
1.27; 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10 mm

■ 10217-266

■ 10217B-266

■ 10217R-266

■ 10217A-266



No.5363

36pc Automotive essential wrench set

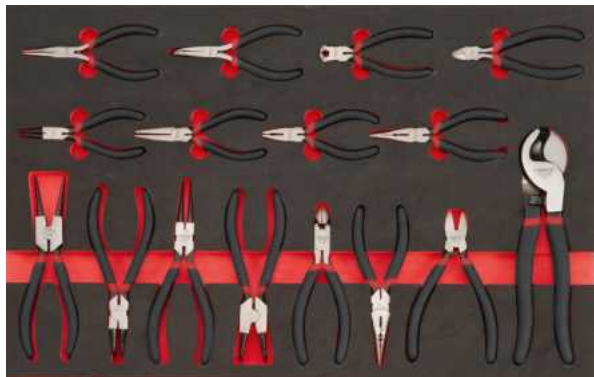
- 9pc Double open end wrench
6x7; 8x9; 10x11; 12x13; 14x15; 16x17; 18x19;
20x22; 21x23 mm
- 18pc Combination wrench
6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19;
20; 21; 22; 24 mm
- 9pc 75° Offset ring wrench
6x7; 8x9; 10x11; 12x13; 14x15; 16x17; 18x19;
20x22; 21x23 mm



No.5212

21pc Utility set

- 1pc Utility knife (include 3pc blades)
- 1pc 5m measuring tape
- 1pc Chisel 12 (150mmL)
- 2pc Ribbed chisel 21 (150mmL); 26 (200mmL)
- 1pc Cape chisel (150mmL)
- 6pc Pin punch
2 (140mmL); 3 (150mmL); 4 (190mmL);
5 (200mmL); 6 (210mmL); 8 (215mmL)
- 1pc Tape punch 3 (185mmL)
- 1pc Center punch 4 (185mmL)
- 1pc Engineer hammer 300gw
- 1pc Rubber hammer 400gw
- 1pc 3-in-1 Magnetic flexible pick-up tool with light & mirror
- 1pc Feeler gauges of 26 sizes (SAE & Metric) (61802)
- 1pc LED white light, clip-type (360° rotation)
- 1pc Technician's scissors 145mmL
- 1pc Gasket scraper



No.51610

16pc Pliers set

- 1pc Round nose pliers 5"(125mm)
- 1pc Flat nose pliers 5"(125mm)
- 1pc Combination pliers 5"(125mm)
- 1pc Long nose pliers 5"(125mm)
- 1pc Needle nose pliers 6"(150mm)
- 1pc Bent nose pliers 6"(150mm)
- 1pc Cutter pliers 6"(150mm)
- 1pc Diagonal pliers 6"(150mm)
- 1pc Snap ring pliers internal 90° bent 7"(180mm)
- 1pc Snap ring pliers external 90° bent 7"(180mm)
- 1pc Snap ring pliers internal straight 7"(180mm)
- 1pc Snap ring pliers external straight 7"(180mm)
- 1pc 4-in-1 Electrical pliers 6"(150mm)
- 1pc Diagonal cutting pliers 6"(150mm)
- 1pc Cable cutter 10"(250mm)
- 1pc Plastic cutting pliers 6"(150mm)



No.4341

34pc 1/2" DR. Impact socket & Wheel nut tools

- 14pc 6pt. Flank impact socket
10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 23; 24 mm
- 10pc 6pt. Flank deep impact socket (85mmL)
10; 12; 13; 14; 16; 17; 19; 21; 22; 24 mm
- 4pc Colored 6pt. flank deep impact socket (85mmL)
17; 19; 21; 22 mm
- 1pc Lock torque wrench 40-210 Nm, 535mmL (6474535)
- 1pc Impact wrench Max. 1566 Nm (825410)
- 1pc Impact extension (ball type) 5"(125mm)
- 1pc Impact universal joint (ball type)
- 1pc Foldable & sliding cross socket wrench
17; 19; 21mm; 1/2" square (400mmL)
- 1pc Wheel balancing weight tool 10"(245mm)



ELECTRICAL / CABLE



Adjustable non-contact wire tracer

88407

 100/5.4/6.4/1.3'

 54g



- Testing range: 12-600 V AC 50-60 HZ.
- Locates breaks along live, insulated wires and power cords.
- Adjustable sensitivity allows tracing of wires behind walls, around switches or receptacle.
- Easy to recognize by audio signal and LED indicator.
- Operates by two LR44, 1.5 V batteries included.

Universal voltage tester

88408

 60/8.5/9.5/2.7'

 142g



- Testing range: 6-400 V AC/DC.
- This voltage tester is designed for industrial purposes and hobbyists and is suitable for domestic voltage and heavy current circuits.
- Display: $\pm 6, 12, 24, 50, 120, 220$
400 V AC/DC = LED
(ED): 30 sec
I max: 30 mA



Multi-function screwdriver voltage tester

NEW

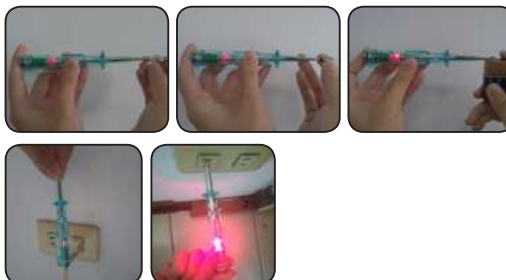
88411

 120/3.36/4.36/1.6'

 28g



- Test for voltage and continuity
- By contact method: 110-250 V AC;
By non-contact method: 110-600 V AC.
- Operates on two LR44, 1.5 V batteries (included)
- CE, GS certified
- Total length: 135 mm, Stainless steel probe: 40 mmL



High voltage tester CAT IV 1000V

NEW



88437

12/11/12/2.2'

910g

- Voltage tester to check for checking the high voltage on hybrid/electric vehicles.
- CAT IV 1000V suitable for both DC and AC voltage testing: DC 6-1000 V / AC 24-1000 V.
- LCD display resolution to 1V. Bar graph displays voltage range 6, 12, 24, 50, 120, 230, 400, 690, 1000 V.
- Includes a self test function, illumination light, voltage value display, phase rotation test, polarity indication, continuity test and non-contact voltage sensing.
- Battery: AAA x 2pc (not included)



Cable cutter



6926315

20/14.0/15.5/1.4'

700g

- For cutting copper and aluminum cable up to 100 mm².
- Length: 315 mm.

Cable cutter



6926600

10/17.0/20.5/2.2'

1700g

- For cutting copper and aluminum cable up to 250 mm².
- Length: 600 mm.

Cable cutter



6926800

5/14.5/17.0/1.66'

2900g

- For cutting copper and aluminum cable up to 500 mm².
- Length: 800 mm.



ELECTRICAL / CABLE



Ratcheting cable cutter



6926R255

 30/20.0/21.7/2.0'  667g

- For cutting copper and aluminum cable up to 325 mm².
- Length: 255 mm.

Ratcheting cable cutter



6926R280

 20/19.6/21.6/1.2'  980g

- For cutting copper and aluminum cable up to 500 mm².
- Length: 280 mm.

Ratcheting cable cutter



6926R400

 15/25.5/26.5/1.86'  1227g

- For cutting copper and aluminum cable up to 500 mm².
- Length: 400 mm.

Terminal crimping tool



68051

 30/14.4/18.0/1.4'  480g

- Copper tube terminal range: 1.5, 2.5, 6, 10 mm². (DIN)
- Non-insulated terminal range: 1.25, 2, 5.5, 8 mm². (JIS)
- Length: 270 mm.

Terminal crimping tool



68052



30/15.6/19.4/1.4'



520g

- Copper tube terminal range: 1.5, 2.5, 6, 10, 16 mm². (DIN)
- Non-insulated terminal range: 1.25, 2, 5.5, 8, 14 mm². (JIS)
- Length: 298 mm.

Terminal crimping tool



68053



30/23/28/1.66'



767g

- Copper tube terminal range: 6, 10, 16, 25 mm². (DIN)
- Non-insulated terminal range: 5.5, 8, 14, 22 mm². (JIS)
- Length: 354 mm

Terminal crimping tool



68055



25/22/26/2.1'



880g

- Copper tube terminal range: 6, 10, 16, 25, 38 mm². (DIN)
- Non-insulated terminal range: 5.5, 8, 14, 22, 50 mm². (JIS)
- Length: 375 mm.

Terminal crimping tool



68056



5/17.7/19.4/1.14'



3540g

- Copper tube terminal range: 16, 25, 50, 70, 95 mm². (DIN)
- Non-insulated terminal range: 14, 22, 38, 60, 80 mm². (JIS)
- Length: 660 mm.



ELECTRICAL / CABLE



Terminal crimping tool



68057

 5/15.0/16.4/0.64'

 3000g

- Copper tube terminal range:
10, 16, 25, 35, 50, 70, 95, 120 mm². (DIN)
- Non-insulated terminal range:
8, 14, 22, 38, 60, 70, 80, 100 mm². (JIS)
- Length: 573 mm.

Terminal hexagonal crimping tool



68071

 5/15.5/17.5/1.9'

 3100g

- Copper tube terminal range:
10, 16, 25, 35, 50, 70, 95, 120 mm². (DIN)
- Length: 650 mm.

Terminal hexagonal crimping tool



68072

 5/15.5/17.5/1.9'

 3100g

- Copper tube terminal range:
25, 35, 50, 70, 95, 120, 150 mm². (DIN)
- Length: 650 mm.

Hydraulic terminal crimping tool



68081

 1/9.7/10.2/0.74'

 9700g

- Designed to accommodate hexagonal, dies of hydraulic tools for applying compression fittings to copper conductors.
- Copper tube terminal range: 50-400 mm²
- Accessories: 50, 70, 95, 120, 150, 185, 240, 300, 400 mm².
- Crimping force: 12T