# Workshop Solutions One call for complete peace of mind

# Workshop Essentials & Tools For Hybrid & Electric Vehicles



Workshop Safety Vehicle Safety Personal Safety High Voltage Tools & Testers



Garage Equipment, Tools, Training & Technology





# Workshop Safety



### Set of 4 Posts, Bases and 25 Metre Chain LAS 6700

- Plastic Support Posts, Bases, and Chain for marking out restricted areas.
- Posts are made from high density polyethylene, bases from recycled PVC.
- Posts are fitted with chain support caps.

ONLY £74.95

Set of 6 Posts, Bases and 25 Metre Chain LAS 6701 ONLY £99.95

Available individually

**Post and Base** LAS 6702 ONLY £14.25

Plastic Chain - Red/White - 25 Metres LAS 6645 ONLY £22.25



## High Voltage Floor Matting -1 Metre

### LAS 6622

- · Flame retardant oil and acid resistant insulated floor matting.
- Tested to IEC611111 Class 2 rated for working voltages up to 17kV.
- Ribbed on the underside fabric impression on upper side.
- Dimensions: Width 1000mm, thickness 3.00mm, Weight 4.0kgs per metre.

ONLY £39.95

## High Voltage Floor Matting -**10 Metre Roll** LAS 6623

## ONLY £339.50

#### High Voltage/No Admittance Sign **Recommended for use with Chain/Post Set** LAS 6639

- Made from 1.2mm rigid plastic suitable for fixing to chains, walls etc.
- Satin finish suitable for both indoor and outdoor use.
- Dimensions 500 x 300mm.
- Conforms to BS5499 for safety signs.





### Hazard Warning Tape LAS 4725

- Highly visual Yellow and Black.
- 33m x 50mm (100ft x 3in).
- · Can be used with laser floor tape dispenser.
- · Ideal for use around vehicle lifts.
- · Also great to use in other hazardous areas.





Hazard Warning Tape Floor Applicator LAS 4709

ONLY £99.95



Danger High Voltage Sign **Recommended for wall/ door mounting** LAS 6642

- Dimensions 300 x 210mm.
- Suitable for indoor/outdoor use.

ONLY £14.95



- Electrically insulated rescue pole with hook.
- · For rescuing electrified victims in case of an accident.
- Insulation rated to 45kv.
- 1.65m long, weight 1.00kg.
- Supplied with wall mounting support brackets.

ONLY £106.25





### Steering Wheel Lockout Cover 400mm LAS 6640

- Warning message, not to start the vehicle unless authorised to do so.
- · Screen printed on re-inforced vinyl and a stitched pocket.
- 400mm diameter fits most cars and vans.
- Includes a metal grommet to accommodate a hasp/padlock.





### High Voltage Insulation Tester CAT III LAS 6549

- Tests insulation resistance across three voltage ranges 250v, 500v, 1000v.
- · Compact and easy to use insulation tester for testing high voltage cables up to 1000v (DC) or 750v (AC).
- Large LCD display with backlight, low battery indication and overload protection on all ranges.
- · Supplied with manual, test leads, carrying case and batteries
- Conforms to CE, EMC, LVD, ROHS and meets IEC10101, CAT III 1000V.



# Vehicle Safety

### Nylon Bodied Safety Lockout Padlock LAS 6641

- Safety lockout padlock for use with steering wheel cover 6640, safety tag, and/or service disconnect.
- Marked with individual code number, which can be assigned to specific employee . Two keys supplied. and/or vehicle



Steel shackle 6.4mm diameter, shackle clearance 38mm.

ONLY £11.95

## Safety Tag -**"DO NOT START"**

- LAS 6675 • Durable plastic construction, resists chemicals, abrasion, grease and solvents
- · Self-adhesive overlay on back of tag, allows for authorised employee name to be written.
- Can be used in conjunction with safety lockout padlock.



### **Transparent Insulating** Shrouding 1000v LAS 6676

- Protects technicians and engineers from live voltages up to 1000v.
- Prevents accidental contact with live terminals.
- · Easily installed and fitted.
- Insulated safety clamps are recommended.
- Dimensions 1400mm x 1000mm x 0.5mm.
- Weight 0.8kg.

### Insulated Safety Clamp

- LAS 6618
- Use with shroud 6676.
- · Holds shroud in-situ.

ONLY £16.95



### Cable End Shrouds -Set of 3 LAS 6703

- 15, 25, 35mm.
- Push on shrouds for
- uninsulated cable ends. Fits over cable connectors
- · Flexible gripping collar
- prevents damage to cable insulation.









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## ONLY £51.95

## Personal Safety



### **Fully Insulating Electrical Safety Glove**

- Fully insulating electrical safety gloves.
- Class 0 rated for 1000v working voltage.
- Leather overgloves are recommended to protect from mechanical hazards and electrical arcing.
- Each pair of gloves is individually tested and marked to EN60903 standard which advises regular testing by inflation to check for air leaks.
- Length 360mm, thickness 1.0mm.

#### Medium (9) Large (10) | X Large (11) LAS 6627 LAS 6626 LAS 6628 ONLY £29.95



## Flex & Grip Electrical **Insulating Gloves**

- Fully insulating electrical safety gloves. Class 0 rated for 1000v working voltage.
- Flex and grip style with non slip characteristics.
- Each pair of gloves is individually tested and marked to EN60903 standard which advises regular testing by inflation to check for air leaks.
- Length 410mm. thickness 2.1mm.



ONLY £69.95

**Insulating Gloves Set** 

**Recommended Set** 

Includes:

Bad

LAS 6636

circuits.

LAS 6637

## Leather Overgloves

- Leather overgloves are worn over insulating gloves to protect against mechanical hazzards and electrical arcing.
- Insulating gloves should be protected against risk of damage by mechanical parts and sharp objects.
- Length 300-330mm.



### **Cotton Underliner Gloves** (Pack of 10 pairs) LAS 6632

- Cotton undergloves for use with electrical insulating gloves.
- Provides added comfort in warm and humid conditions.
- Absorbs extra moisture.
- One size fits all.

ONLY £9.95

### **Pneumatic Glove Tester** LAS 6624

- Designed to test electrical insulating gloves for damage and subsequent leaks.
- Electrical insulating gloves should be disposed of immediately if leaks are discovered.
- The tester provides a simple visual test by inflating the glove to detect air leaks.
- The test is to EN60903 standard which recommends regular inspection and testing for all electrical insulating gloves.

ONLY £146.95



### Glove Storage Bag LAS 6625

- Individual personal storage bag.
- Holds 1 pair electrical insulating gloves
- and leather overgloves.
- Dimensions: 410mm x 200mm x 70mm.



## Overgloves and Personal Glove Storage ONLY £59.95

Fully Insulating Electrical Gloves, Leather

Medium (9) Large (10) X Large (11) LAS 6704 LAS 6705 LAS 6706

**Protective Arc Flash Face Shield** 

 Protective face screen for use without helmet. Protects against electric arcs caused by short

CE certificated with EN166/EN170, 1000v rated.

· Polycarbonate screen with anti-mist treatment.

Black fabric cover bag for the face shield.

· Protects face screen against accidental damage.

Adjustable headband for comfort.

#### WS Hybrid Electric Leaflet.indd 4

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ONLY £88.25

# High Voltage Testers & Accessories

### High Voltage Insulation Tester CAT III

- LAS 6549 ONLY £169.95
- Tests insulation resistance across three volyage ranges 250v, 500v, 1000v.
- Compact and easy to use insulation tester for testing high voltage cables up to 1000v (DC) or 750v (AC).
- Large LCD display with backlight, low battery indication and overload protection on all ranges.
- Supplied with manual, test leads, carrying case and batteries.
- Conforms to CE, EMC, LVD, ROHS and meets IEC10101,CAT III 1000V.

## **Cable Piercers**

- LAS 6541
- For use with any lead with a 4mm banana plug.
- Colours: Red, blue, green, yellow.
- For safe voltage piercing up to 600v.
- For cables 1.0mm < 2.5mm.
- For cable piercing use wire guide.
- For back probing remove the wire guide.



#### Insulation Resistance Multimeter CAT III LAS 6550 • High voltage insulation resistance

- High voltage insulation resistance test ,true RMS, continuity test and diode test.
- Auto ranging, min/max data hold, data logging, LCD backlight and low battery indication.
- Voltmeter Specification: AC/ DC volts to 1000v, 0v to 600mV, mA, Amps to 10A, Resistance, Frequency, Temperature.
- Insulation test voltages: 50v, 100v, 250v, 500v, 1000v.
- Supplied with test leads and clips, temperature probe, manual, batteries
- CE/ROHS compliant.



### Digital Clamp Meter CAT III 1000a True RMS LAS 6552 ONLY £149.95

- Digital clamp tester for AC/DC current measurement - CAT III 600v rated.
- True RMS current and voltage readings regardless of waveforms.
- 30mm clamp jaw opening.
- Specification: AC/DC current to 1000a, AC/DC voltage to 600v, AC/DC power to 240kw, resistance to 400 ohms, frequency to 10mhz, continuity and diode check, low battery indicator, data hold facility, auto power off.
- Supplied with test leads, carry case, battery.
- CE Certificated and RoHS compliant.

### Mini AC/DC Digital Clamp Meter CAT III 80a LAS 6551 ONLY £99.95

- Digital clamp tester for AC/DC current measurement - CAT III 600v rated.
- Special low amps range model for diagnostic work on 4a/80a ranges with 1mA resolution.
- Small clamp probe for ease of access 0.5" jaw aperture.
  - Specification: AC/DC current to 80a, AC/ DC voltage 400mV-600V, resistance 400 ohms frequency, duty cycle, capacitance,
  - diode and continuity check. Supplied with test leads, carry case and
  - battery.
  - CE certificated and RoHS compliant.



#### Crocodile Clips - 2pc LAS 6542 • Fully insulated crocodile

- Fully insulated crocodile clips with 4mm female banana plug connector.
- Red and black.
- 1000v/10ampWide opening iaws.
- ONLY **£6**.95



- multi meters and other Laser Tools electrical accessories.
- Length 48"/122cm, OD 3.8mm, rating 1000v/10 amps.
- For use with most other accessories with 4mm banana sockets.
- Manufactured from Silicone material.
- Colour: Red and black.

ONLY £7.95

### Back Probes - 8pc LAS 6544

- Suitable for use with leads with 4mm Banana connections.
- Ideal for connecting to MAP and TPS sensors/fuel injectors.
- Easy access back probes.
- Contents: 2 x yellow, 2 x green, 2 x red, 2 x blue.
- Resistant to automotive solvents.

ONLY **£13.95** 

# High Voltage Tools







### Insulated Socket Set 1/4"D - 18pc LAS 6145

- 13 x Sockets: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm.
- 4 x extension bars 50, 75, 100, 150mm, 1 x quick release ratchet handle.
- VDE certificated/GS approved.
- Packed in blow case and EVA foam.

## ONLY £129.95

### Insulated Socket Set 3/8"D - 16pc LAS 6148

- Socket sizes 8, 10, 12, 13, 14, 17, 19, 22mm.
- 1 x 3/8"D ratchet, 1 x T-handle, 2 x extension bars 150, 250mm, 4 x Hex bit sockets 4, 5, 6, 8mm.
- VDE certificated/GS approved.
- Packed in a plastic case with EVA foam.

## ONLY £164.95

## Insulated Tool Kit

- 3/8"D 25pc
- Socket sizes 7, 8, 10, 12, 14, 15, 17, 19, 22mm.
- 1 x combination pliers 175mm,
  1 x side cutter 150mm,
- 1 x side cutter isomm, 1 x 3/8"D ratchet, 1 x extension bar 100mm, 1 x T-handle.
- 6 x open end spanner set 7, 8, 10, 12, 14, 17mm, 1 x cable knife, 4 x screwdrivers Ph1x100mm, Ph2x100mm, Flat 5.5mm x 125mm, Flat 4mm x 100mm.
- VDE certificated/GS approved.
- Packed in EVA foam and blow
  case

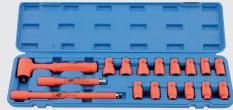
ONLY £199.95



### Insulated Socket Set 1/2"D - 20pc LAS 6149

- Socket sizes 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 32mm.
- 1 x ratchet 1/2"D x 250mm, 1 x T-handle x 200mm, 2 x extension bars 150mm, 250mm, 5 x Hex Bits 4, 5, 6, 8, 10mm.
- VDE certificated, GS approved.
- Packed in EVA foam and plastic case.





## Insulated Socket Set

### 3/8"D - 17pc

#### LAS 5483

- Includes 3/8"D ratchet with quick release function and 150mm and 250mm extension bars.
- Socket Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm.
- IEC rated to 1000v.

ONLY £139.95



## Insulated Tool Kit 3/8"D - 22pc

#### LAS 6146

- 15 x Sockets: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20mm.
- 3/8"D Ratchet with quick release, 2 x extension bars 75mm, 150mm, 2 x screwdrivers Flat 3mm x 100mm, Phillips Ph1 x 80mm, 1 set long nose pliers, 1 set pliers.
- VDE certificated/GS approved.
- Packed in blow case and EVA foam.

## ONLY £179.95



## Insulated Socket Set 1/2"D - 24pc

- LAS 6147
- 20 x Sockets: 10, 11, 12, 13, 14,15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 29, 30, 32mm.
- 1 x quick release ratchet, 3 extension bars 75, 125, 250mm.
- VDE certificated/GS approved.
- Packed in blow case and EVA foam.

ONLY £249.95

### **Insulated Torque Wrench** 3/8"D - 5-25Nm LAS 5481

- Insulated torgue wrench to EN/IEC 60900 2012 standards.
- Ideal for use on hybrid and electric vehicles.
- Quick release function: Length 265mm, handle width 40mm, head width (including 3/8"D) 68mm, head width 51mm.
- · Supplied in blow mould case with calibration certificate.

## ONLY £169.95

VDE Hex Key Set -

· Metric sized Hex Keys with VDE protection.

• VDE Hex key set tested to

• Sizes 2.5, 3, 4, 5, 6, 8mm. • Packed in a durable storage case.

ONLY £24.95

Extra Long LAS 5515

1000v.



## High Voltage Tools

## **VDE** Diagonal Side Cutters -

## 150mm

- LAS 5912 • VDE 1000v protection.
- 1000v protection.
- · High visibility.





### Insulated Wrench Set 7pc LAS 6048

- TUV/GE and VDE certificated.
- Sizes: 8, 10, 12, 13, 14, 17, 19mm.
- Chrome Vanadium steel.
- Manufactured according to IEC60900 standards.

## ONLY £69.95



### VDE Star Key Set - Extra Long LAS 5516

- Extra long set of Star Keys with 1000v VDE protection.
- Sizes: T10, T15, T20, T25, T27, T30, T40, T45, T50.
- Manufactured from S2 steel for strength
- VDE 1000 volt tested and certificated.
- · Packed in a plastic storage case.

ONLY £29.95

### Screwdriver Set - VDE 7pc LAS 5986

- Rated upto 1000v.
- Manufactured according to DIN/ISO.
- Sizes: Flat: 3mm x 100mm, 4mm x 100mm, 5.5mm x 125mm, 6.5mm x 150mm
- Phillips Ph0 x 60mm,
- Ph1 x 80mm, Ph2 x 100mm.
- Ideal for electric and hybrid cars. Visual colour for easy selection.



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# **Starter Packages**



### Workshop Safety Pack (A) LAS 6769

## Consisting of:

- LAS 6622 High Voltage Floor Matting (1 metre)
- LAS 6638 Insulated Rescue Pole
- LAS 6639 High Voltage/No Admittance Sign
- LAS 6642 Danger High Voltage Sign
- · LAS 6700 Set of 4 Posts, Bases and 25 Metre Chain

## ONLY £249.00



## LAS 6770

## Consisting of:

- LAS 6618 Insulated Safety Clamp 1000v, 2 off
- LAS 6676 Transparent Insulating Shrouding 1000v (1.4m x 1m)
- LAS 6640 Steering Wheel Lockout Cover (400mm) · LAS 6641 - Nylon Bodied Safety Lockout Padlock
- LAS 6675 Safety Tag (Do Not Start)
- LAS 6703 Set of 3 x Insulating Shrouds (15, 25, 35mm)

## ONLY £175.00

Safety Tools Pack (D)

Voltage Insulation Tester

LAS 6772 Consisting of:

(3/8"D, 25pc)

ONLY £450.00



## Personal Safety Pack (C)

### LAS 6771

Consisting of:

- LAS 6636 Protective Arc Flash Face Shield
- LAS 6637 Carrying Bag for Faceshield (6636)
- LAS 6705 Insulating Glove Set (Large 10)



ONLY £165.00

Complete Starter Pack (A, B, C, D) LAS 6773

ONLY £995.00

## Garage Equipment, Tools, Training & Technology





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