







**Brands Featured:** 













































#### **EV & HEV Service Tools & Equipment**



- Terminal block: #1, #2
- Nut drivers: 7/32" 7/16", 5mm 13mm
- Sockets: 1/2" 7/8", 13mm 22mm
- T-Handles: 5/32" 3/8", 4mm 8mm L-keys: 1/2" & 10mm Pliers Cutters
- Ratchet: 3/8" drive Extension: 3/8" x 5" Cable knife: 2" (50mm)
- 2 Meter ruler: inch/metric Category IV voltage detector: 110V to 250V
- Rolling water tight tool case: 22" L x 13-3/4" W x 9" H Certified to 1000 Volt AC



#### WIH-32876

#### 66-Pc Insulated Tool Set

- Screwdrivers:
- Slotted: 2mm-10mm
- Phillips: #0, #1, #2, #3
- Torx®: T8-T30
- Square: #1, #2

WIH-91890

• Screwdrivers:

- Phillips: #1, #2

• 1/4" drive ratchet

• 2" & 4" extension bars

• 8.5" Cable stripping knife

• 1/4" drive, 6 pt. sockets: 5-13mm

• Open end wrenches: 8mm-13mm • 8" Tweezers • 3-Pc pliers/cutters

- Terminal block: #1, #2
- Nut drivers: 1/4" 7/16"
- Sockets: 1/2" 7/8". 8 22mm
- Hex T-Handles: 5/32" 3/8", 4 8mm
- Hex L-keys: 1/2" & 10mm
- Pliers
- Cutters
- Adjustable wrench
- Ratchet: 3/8" drive
- Extension: 3/8" x 5'
- Cable knife: 2" (50mm)
- Certified to 1000 Volt AC



Each item in this set can also be purchased separately.

## Wing Wina Made in Germany



#### 16-Pc 3/8" Drive Insulated **Ratcheting Torque Wrench** and Socket Sets

Sets include:

- Ratcheting torque wrench: 4-37 ft-lb (5-50 Nm)
- Metric or SAE sockets
- Extension bars: 5" & 10"
- Certified to 1000 Volt AC



ach item in this set can also be purchased separately

WIH-30190	SAE	1/4" – 7/8"
WIH-30192	Metric	8mm – 20mm

#### WIH-31391

#### 13-Pc 1/4" Drive Insulated **Metric Socket Set**

- Sockets: 5mm 14mm
- Extensions: 2", 4"
- 1/4" Drive reversible ratchet
- Certified to 1000 Volt AC or 1500 Volt DC



#### WIH-31590

#### 10-Pc 3/8" Drive Insulated **Metric Socket Set**

- Sockets: 8mm 19mm
- Extension: 5"
- 3/8" Drive reversible ratchet
- Certified to 1000 Volt AC or 1500 Volt DC

Each item in this set can also be purchased separately.



## TITAN

#### TIT-66100

#### 18-Pc 1/4" Drive Metric Socket Set. 1000V Insulated

- (13) Sockets: 4-14 mm
- Extensions: 2", 3", 4", 6"
- 1/4" drive reversible ratchet with quick release









#### 16-Pc 3/8" Drive Insulated **Inch/Metric Socket Set**

- Inch sockets: 5/16" 3/4"
- Metric sockets: 8mm 19mm
- Certified to 1000 Volt AC or 1500 Volt DC





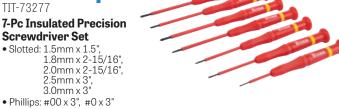


#### **EV & HEV Service Tools & Equipment**



#### TITAN

## 7-Pc Insulated Precision





#### 11-Pc Insulated TorqueVario-S Driver and SlimLine Blade Set

- TorqueVario-S driver: 10-50 in-lb
- SlimLine insulated blades: Slotted: 4mm, 6.5mm; Phillips: #1, #2; Square: #1, #2; Xeno: Terminal #1, #2
- Certified to 1000 Volt AC

## (T CRESCENT

**CRE-CTVDESDS** 

#### 7-Pc VDE 1000V Insulated **Screwdriver Set**

- Slotted: 1/8" x 3", 5/32" x 4", 7/32" x 5", 1/4" x 6"
- Phillips: #0 x 3", #1 x 3", #2 x 4"



## Milwaukee

#### Milwaukee® 1000V Insulated Tools

- Tested and certified to UL®, OSHA, VDE & GS standards
- Dual layer insulation offers visual wear indication for tool replacement
- Flame retardant & impact resistant handle and shank
- Visible ID markings





#### 3-Pc 1000V Insulated **Screwdriver Set**

- ECX™: #1 x 4"
- Phillips: #2 x 4"
- Slotted: 1/4" x 6"



MLW-48-22-2204

#### 4-Pc 1000V Insulated **Screwdriver Set**

- Slotted: 1/4" and 3/8" -6" and 8" long
- Phillips: #1 and #2 -3" and 4" long





MLW-48-22-2205

#### 4-Pc 1000V Insulated **Screwdriver Set**

- Slotted: 1/4" and 3/8" 6" and 8" long
- Square: #1 and #2 – 3" and 4" long





#### MLW-48-22-2210

#### 10-Pc 1000V Insulated **Screwdriver Set**

- ECXTM: #1 x 4"
- Phillips: #1 x 3", #2 x 4", #3 x 6"

**Screwdrivers with Storage Pouch** 

- Slotted: 1/4" x 6", 5/16" x 7", 3/8" x 8"
- Square: #1 x 3", #2 x 4", #3 x 6





MLW-48-22-2216	MLW-48-22-2217	MLW-48-22-2218
4-in-1	8-in-1	8-in-1
#2	#00, #0	#1, #2
1/4", 3/16"	3/32", 1/8"	3/16", 1/4"
	TP7, TP8, TP10, TP15	
#2		#1, #2
		#1, #2
	<b>4-in-1</b> #2 1/4", 3/16"	4-in-1 8-in-1 #2 #00, #0 1/4", 3/16" 3/32", 1/8" TP7, TP8, TP10, TP15





#### **EV & HEV Service Tools & Equipment**



#### **Insulated T-Handle Hex Screwdriver Sets**

• Certified to 1000 Volt AC

WIH-33478	5-Piece	Metric: 4mm, 5mm, 6mm, 8mm, 10mm
WIH-33490	6-Piece	Inch: 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"





#### 1000-Volt Insulated Electrician's Dismantling Knife, 7" Long

• 1.5" fixed hook blade with guide shoe at the blade point: no damage of the conductor insulation





Item #	Description
WIH-75220	8" Insulated Tweezers, Serrated, Straight Blunt Tip
WIH-75302	6" Insulated Tweezers, Serrated, Angled Fine Tip
WIH-75304	8" Insulated Tweezers, Serrated, Angled Blunt Tip





#### KNI-98 99 11

#### 17-Pc Compact Tool Set, 1000V Insulated

- 8" Combination pliers
- 6-1/4" Diagonal cutters
- 7-1/4" Cable knife
- Slotted screwdrivers: 1/8", 5/32", 7/32"
- Phillips® screwdriver: #0
- 1/2" Drive reversible ratchet
- 1/2" Drive Hex socket set: 10mm-19mm
- Extensions: 5", 10"





#### WIH-32999

#### 9-Pc Insulated **Pliers/Cutters Tray Set**

• 9" Lineman's with crimper

- 8" Lineman's
- 6.3" & 8" Diagonal cutters
- 6.3" Stripping pliers
- 7" Crimp pliers
- 8" Cable cutter











**EV & HEV Service Tools & Equipment** 



Lineman's Pliers

MLW-48-22-2209

1000V Insulat	ed Pliers
Item #	Description
<b>Diagonal Cuttin</b>	g Pliers
CRE-6DIAGVDE	6" 1000V Insulated Diagonal Pliers
CRE-7DIAGVDE	7" 1000V Insulated Diagonal Pliers
Long Nose Plier	es
CRE-6LNVDE	6" 1000V Insulated Long Nose Pliers
CRE-8LNVDE	8" 1000V Insulated Long Nose Pliers
Linesman Pliers	
CRE-6LMVDE	6" 1000V Insulated Linesman Pliers
CRE-7LMVDE	7" 1000V Insulated Linesman Pliers
CRE-8LMVDE	8" 1000V Insulated Linesman Pliers
Wire Stripper F	Pliers
CRE-6WSVDE	6" 1000V Insulated Wire Stripper Pliers
Milwaukee	
1000V Insulat	ed Pliers
Item#	Length 48-22-2208
Diagonal Cuttin	g Pliers 8"
WILW-40-22-22U0	U

48-22-2209



- screwdriver: #2 Phillips
- (1) 9" Lineman's pliers
- (1) 8" Diagonal cutting pliers
- (1) Wire stripper & cutter 10-20 AWG









#### **Entirely Insulated Magnet** on Flexible Handle

- Magnet diameter: 0.24" (6mm)
- Maximum load to the magnet: 1.65 lbs (0.750 kg)
- Certified to 1000 Volt AC or 1500 Volt DC

#### TIT-71101

#### 22" Long 1000V Insulated **Flexible Inspection Mirror**

• 2" mirror



#### TIT-71100

#### 22" Long 1000V Insulated Flexible Magnetic Pick-Up Tool

• 1.5 lbs magnetic capacity



#### TIT-71103

#### 9" Long 1000V Insulated Mirror with Pliable Handle

• 2" mirror







#### **EV & HEV Service Tools & Equipment**

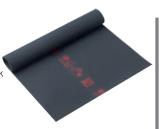






#### Insulating Mat - Class 0

- Insulating mat for live line work and dead work
- 3.3 ft, x 3.3 ft, (1m x 1m) Thickness: 2.2mm
- Operating voltage: 1000V AC 1500V DC
- Low temperature folding test at -40 °C
- Operating temp.: -40°C to +55°C

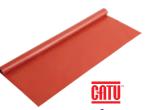


#### CTU-MP-220

#### **Orange Insulating Blanket**

#### - Class 0

- Used as protection for workers operating on live lines, live parts or in the vicinity of live
- 3.3 ft. x 3.3 ft. (1m x 1m)
- Thickness: 1.2mm
- Operating voltage: 1000V AC 1500V DC
- Resistance to bending at very low temperature (-40°C)
- Oil resistance and high puncture resistance
- Operating temp.: -40°C to +55°C









#### KNI-98 67 05

#### 20" x 20" Rubber Mat, 1000V Insulated

- For added protection when working live or close to live parts
- Thickness: 1/16" (1.58mm)









#### **Protective Equipment Kit** for Live Conductors and Connectors

- Operating voltage: 1000V AC 1500V DC Includes:
- (1) Insulating blanket, Class 0, 1m x 1m (#MP-220)
- (4) Insulating clamps for blanket (#MP-627-D)
- (3) Insulating caps, Class 0, 30mm x 120mm (#MP-635/30-D)
- (3) Insulating caps, Class 0, 60mm x 180mm (#MP-635/60-D)





#### CTU-ALPV-XL-D

#### **Locking Cover for Steering Wheel**

- Up to 24.4" (62 cm)
- Transparent pocket (A5 size) allows to display a personalized message during the lock-out procedure
- · Strap closure at the back with 10mm metal eyelets for inserting a padlock and self-gripping part









#### **Insulating Blanket - Class 0**

- Used as protection for workers operating on live parts or in the vicinity of live parts
- Operating voltage: 1,000V AC 1,500V DC
- Acid and oil resistance
- High puncture resistance
- Gripping tape ("Velcro" type) all around the blanket for fixation or fitting with another blanket
- Operating temp. range: -40°C to +55°C

Item #	Description
CTU-MP-123	14" x 26" (0.36m x 0.66m)
CTU-MP-123/1	19.5" x 35.5" (0.5m x 0.9m)
CTU-MP-123/2	31.5" x 47" (0.8m x 1.2m)



#### CTU-MP-19-LOT

#### 10 Colour Electrical Adhesive Tape

- Offering high dielectric strength and good mechanical protection
- Self-extinguishing
- Can be used on cables, wires of any size
- 10 rolls of 10m











#### CTU-ACA-10

#### "Electric Hazard" Warning Pyramid with Magnetic Base

• Cardboard cone, 5.5" (140mm) side







#### CTU-AT-5005

#### **Safety Adhesive** Signaling/Delineation Tape

- Self-adhesive PVC
- 2" x 328 ft. (50mm x 100m)



KLE-58000

#### **CAUTION Tape, Barricade**

- 3" x 200 feet (76mm x 61m)
- Made of tough, durable (2.5 mil) polyethylene
- Highly resistant to acids, alkalis and other components





#### **EV & HEV Service Tools & Equipment**



#### Insulating Transparent & Flexible PVC Blanket - Class 0

- Insulating blanket for workers operating on live parts or in the vicinity of live
- Operating voltage: 1,000 V AC 1,500 V DC
- Must be fixed with MP-41A70 insulating magnets or MP-41-..., or MP-62.D
- Resistance to acid, oil and ozone
- Operating temp. range: -40°C to +55°C

Item #	Description		
CTU-MP-35	4.25 ft. x 82 ft.	(1.3m x 25m)	
CTU-MP-35/12	4.25 ft. x 41 ft.	(1.3m x 12.5m)	
CTU-MP-37	3.5" x 82 ft.	(90mm x 25m)	





#### CTU-MP-41A704

#### Set of 4 Magnets for **Insulating Blankets**

- Particularly suitable for MP-35, MP-35-12, MP-37 and MP-40 insulating blankets
- (1) hole diameter 4mm on the periphery for anchoring
- 70mm x 5mm thickness







#### CTU-KIT-VEH-V-TST

#### Kit for Application in the Field of Electric and Hybrid Vehicles and Machines for

- $\bullet$  Suitable for work in the vicinity or under voltage (maximum operating voltage 1000 V AC 1500 V)
- Kit includes: (1) CAT III 600 V multimeter (#MX-701), rescue stick with hook, flexible mat, clamps, various caps, red insulating electric tape, cover for bare parts, "LOCAL BATTERY" warning signs, pliers, socket set, torque wrench 4-20 Nm, cable cutter, screwdriver set, mirror, magnet, brush







#### CTU-KIT-MD04R

#### **Rescue Kit for Working at Height**

- For maximum descent height of 20m Includes:
- (1) Hoist with 5m cord (#MO-346-R)
- (1) Anchor strap (#MO-52033)
- (1) Snap hook (#MO-54)
- (1) Descent device (#MD-02)
- (1) Descent rope (#MO-69/20-R)
- (1) Wide opening snap hook (#MO-54004)
- (1) Carrying bag (#MO-42/2)



#### Delineation Kit for Application in the Field of **Electric & Hybrid Vehicles and Machines**

- (6) Red and white ballasted boundary posts (#AL-323)
- (1) Plastic chain with red and white links, 25m (#AL-31/25)
- (2) Plastic signs, 450mm x 150mm (#AP-72)







AL-326

#### **Folding Modular Safety Barrier**

- Lightweight and stable 3-panel intervention barrier (AL-325), used to temporarily fence off and delimit a work area
- Light and flexible structure made of PVC tubes and panels made of 100% polyester fabric in fluorescent yellow
- Modularity: possibility to add or remove panels
- AL-326: Additional element made up of a single panel, allowing to enlarge the barrier
- Fixing by 2 junction clips (supplied)
- For indoor use

Item#	Description	Dimensions	
CTU-AL-325	3-Panel Barrier	5.5 ft. x 3.25 ft. (1.71m x 1m)	
CTU-AL-326	1 Panel Extension	2 ft. x 3.25 ft. (0.57m x 1m)	





EV & HEV Service Tools & Equipment



## Rescue Stick with Insulated Permanent Hook

- 45 kV
- 1.65m long
- Includes wall brackets (#CI-06-D)











#### CTU-KIT-VEH-DEP

## Head and Hand Protection Kit for Towing Services for Electric and Hybrid Vehicles and Machines

- (1) Arc-Flash protective faceshield with headband and a storage bag (#MO-286)
- (1) Pair of short insulating gloves (28cm), Class 0, 1000V AC / 1500V DC, size 10 (#CG-0-10-R-28)
- (1) Pair of cotton under-gloves (#CG-80-H)
- (1) Pair of short leather overgloves, size 10 (#CG-984-10)
- (1) Bag for protection and storage of gloves (#CG-36-1)
- (40) "DAMAGED VEHICLE" removable stickers (#AT-81)
- (1) Non-conducting safety padlock (#PP-6-38-R-Z)
- (10) Safety Tag-Out badges with warning sign (#AP-460)
- (1) Storage bag (#MO-42/2)

## High-Visibility Multi-Risk Parka with Hood for Protection Against Electric Arc

 Protection against thermal hazards of an electric arc, heat and flames, rain protection, anti-static, small splash of liquid chemicals

• Central zip with flap, adjustable belt at the waist

• 2 Chest pockets and 2 hip pockets

Size	Item #
S	CTU-M-883374
M	CTU-M-883377
L	CTU-M-883378
XL	CTU-M-883379
2XL	CTU-M-883380
3XL	CTU-M-883381









#### CAT'ARC Multi-Risk Switching Jacket to Protect Against an Electric Arc

- Designed to be worn on top of the usual clothing
- Adjustable hood
- To be worn with a visor or a helmet
- Velcro® central fastening along the entire length
- Back length of 47" (121 cm)
- Visor, insulated gloves and shoes sold separately

Item#	Size
CTU-AFG-2300-S	S
CTU-AFG-2300-L	L
CTU-AFG-2300-2XL	2XL
CTU-AFG-2300-4XL	4XL





#### Safety Shoes with Insulating Sole - Class 0

- Operating voltage: 1000V AC 1500V DC
- Low-cut and textile type shoe
- Slip resistant sole
- Leather reinforcements at the front and the back
- $\bullet$  Extra perspiration-resistant, anti-bacterial lining

Item #	Size
CTU-MV-226-40	40
CTU-MV-226-41	41
CTU-MV-226-42	42
CTU-MV-226-43	43
CTU-MV-226-44	44
CTU-MV-226-45	45
CTU-MV-226-46	46
CTU-MV-226-47	47

#### Insulating Overboots - Class 1

- Operating voltage: 7,500V AC / 11,250V DC
- Meets the requirements of ASTM 1117 (20kV)
- Ideal for temporary and frequent use
- Fit perfectly over safety shoes
- 100% waterproof
- Fuel and oil resistant rubber sole promoting a superior slip resistance
- Sole pattern design avoids clogging and catching on rungs when climbing ladders
- Hot contact resistant sole to 300°C for 60 seconds
- Quick and easy to wear & remove; kick-off lug for hands free removal
- Comfortable, durable and lightweight





Item #	Size
CTU-MV-138-M	M (39-42)
CTU-MV-138-L	L (43-45)
CTU-MV-138-XI	XL (46-49)

#### CTU-MO-286

## Arc-Flash Protective Face Shield with Headband for Electrician

- Protective face shield against thermal effect of short-circuit electric arcs
- To wear without a helmet
- Ratchet head adjustment
- Anti-scratch and anti-fogging treatments
- Visor height: 8" (20.5 cm)





75mm / 3"

88mm / 3.5"

101mm / 4"

126mm / 5"

113mm / 4.5"

140mm / 5.5"

7 / S

8 / M

9 / L

10 / XL

11 / 2XL

12 / 3XL

#### **EV & HEV Service Tools & Equipment**

#### CTU-MV-99-INSD

#### **Orange Elastomer** Insulating Apron - Class 0

- Operating voltage: 1000V AC 1500V DC
  Adjustable belt strap with
- plastic lock
- Acid and oil resistant
- High resistance to perforation
- Can be folded at very low temperature (-40°C)
  Insulator's H x W: 65 cm x 50 cm
- Thickness: 1.2mm

## Electrical Insulating Gloves, Red - Class 0

- Includes the dielectric and conformity certificate
- Rolled edges for more comfort
- Material: Natural Latex Length: 14"

Item #	Size
CTU-GI-01408-RRI	8 (M)
CTU-GI-01409-RRI	9 (L)
CTU-GI-01410-RRI	10 (XL)
CTU-GI-01411-RRI	11 (2XL)







#### **Leather Overgloves for Low Voltage Insulating Gloves**

- Ensure mechanical protection for insulating gloves (Class 00 & 0)
- Resistant to flame and contact heat of 100°C for 10 seconds according to EN 407
- Velcro® adjustable cuffs

Item #	Size
CTU-CG-981-08	8
CTU-CG-981-09	9
CTU-CG-981-10	10
CTU-CG-981-11	11



#### **Undergloves for Insulating Gloves**

- Comfortable fit, washable undergloves improve the comfort of use and hygiene of insulating gloves
- Helps protect from Latex allergies

Item #	Fits Size
CTU-CG-80-F	8
CTU-CG-80-H	9, 10, 11



#### CTU-CG-36-1

#### **Storage Case for Insulating Gloves** - Class 00, 0, 1

- Made of repellent reinforced fabric for the transportation of insulating gloves in vehicles and tool boxes
- Rear loop for belt carriage and transparent pocket for instructions or identification
- Velcro fastening
- 16.5" x 7" x 2"



#### CTU-CG-117

#### **Pneumatic Tester for Insulating Gloves**

- For compulsory control of insulating gloves from class 00 to 4 before use
- Checking is done by inflating the insulating gloves and immersing in water



#### **ANSELL GLOVE SIZING CHART**

Measure the width of your hand from the base of your index finger and across your knuckles.

## **Ansell**

#### No Returns Accepted

#### 100% Natural Rubber **Electrical Insulating Gloves**

- 11" long gloves
- Ergonomically-designed hand-at-rest shape for less hand fatique
- · Generous flared cuff allows room for clothing and improves ventilation
- Exceeds ASTM D120 standards for tensile strength, elongation, tear & puncture resistance
- · Product meets all applicable ASTM, NFPA, OSHA, CSA and EN standards

#### Red Gloves, Class 0

 Max. use voltage AC/DC 1,000 / 1,500 Volt

Item#	Size
ANS-RIG011R070	7
ANS-RIG011R080	8
ANS-RIG011R090	9
ANS-RIG011R100	10
ANS-RIG011R110	11
ANS-RIG011R120	12

#### Yellow Gloves, Class 0

 Max. use voltage AC/DC 1,000 / 1,500 Volt

Item #	Size
ANS-RIG011Y070	7
ANS-RIG011Y080	8
ANS-RIG011Y090	9
ANS-RIG011Y100	10
ANS-RIG011Y110	11
ANS-RIG011Y120	12

#### 10" Industrial Leather Protector Gloves

#### -Class 00.0

- Should always be worn over Rubber Insulating Gloves to meet OSHA and ASTM standards to provide mechanical protection against cuts, abrasions and punctures
- SIZING: These leather gloves should be ordered in the same size as the Rubber Electrical Insulating Gloves

Item #	Size
ANS-RIGLVCVR070	7
ANS-RIGLVCVR080	8
ANS-RIGLVCVR090	9
ANS-RIGLVCVR100	10
ANS-RIGLVCVR110	11
ANS-RIGLVCVR120	12



#### Ansell



#### **Protective Bag with Clip**

· Canvas glove bag is designed for use with Electrical Insulating Gloves

Item #	Size
ANS-RIGCVSBAG14	14"
ANS-RIGCVSBAG16	16"









#### **EV & HEV Service Tools & Equipment**

#### NRC-72850A

#### 2,500 Lbs Capacity Powertrain Lift/Work Table

- Handles powertrain components like engines, transmissions, transaxle assemblies, rear ends and large electric vehicle batteries
   Air/hydraulic foot pump
- Lift height: 31" to 78"
- Overall dim.: 50" L x 33" W x 35" H
- Table size: 19" x 36"
- Saddle tilt: 15°





#### ATD-7478

## 2,500 Lbs Capacity Powertrain Lifting Table

- Designed to handle heavy engine, drive axle assemblies, transmissions, electric vehicle batteries and other vehicle components
   Air/hydraulic foot pump
- Capacity @ 100 psi: 2,500 lbs
- Lifting range: 33" 77"
  Table size: 19.7" x 32"
- Table tilt: +/- 11°
- Overall dim.: 48" x 33" x 33"
- Weight: 586 lbs







#### CTU-MO-810

#### **Insulating Device To Lift Up Batteries**

- To lift up batteries for live working at low voltage
- To lift forklift batteries elements for maintenance operations
- Operating voltage:
  1,000 V AC 1,500 V DC
  Adjustable fixing capacity from 81mm to 118 mm
- Max. load: 507 lbs (230 kg)









**EV & HEV Service Tools & Equipment** 

#### OTC-1585A

#### 1,250 Lbs Capacity **Power Train Lift with Tilting Plate**

- Ideal for engine and transaxle service
- Height range: 29-1/2" to 68-1/2" • Weight: 372 lbs



### 



#### **3L Capacity ELECTRIC VEHICLE Brake Bleeding Kit**

- Services various EV models, including Tesla Models X, S, 3, and Y
- Includes 36mm and 37mm brake bleeder all-metal adapters



#### **AUTEL** MAXIEV



#### AUL-CDT100

#### **EV Battery Discharge/Charge Unit** with Wide Voltage Tests and Maintenance Modes

- Wide voltage design, suitable for discharge, charge, and activation testing of modules with different voltage levels
- Set Constant Current and Power, Charge and Discharge modes for varied applications
- Improves charging efficiency by ensuring full charge
- Optimize battery pack capacity with constant current discharge, and charge modes
- Displays single-cell maximum/minimum voltage and other data onscreen in graphs, columns, and report forms
- Issues warnings for reverse connection, over temperature, overcurrent, fan failure and overcharge
- Charge-discharge voltage range: 2-285V DC
- Discharge current range: 150A/7.2kW max.
- Charge current range: 100A/4.4kW max.
- Power supply: 110/220V AC





#### CTU-MS-917-L

#### Detex<sup>™</sup> Low Voltage Detector

- Operating voltage: 12-690V AC /12-750V DC
- (7) Thresholds Frequency: 50-60 Hz
- Continuity: 200 Ω
   Polarity
- Unipolar phase identification
- Phase indication
- Completely modular and adjustable to eclipse sockets







#### PWP-VT750LCD

#### **Two-Pole Voltage Tester** for Electric and Hybrid Vehicles

- Safety rated at 1000V CAT III, 600V CAT IV
- Automatically selects the correct voltage range
- AC/DC Volts: 750V
- Resistance: 0~2,000Ω Frequency: 30Hz~999Hz
- Continuity beeper: ≤600KΩ Diode test: 0.3V~0.9V
- Single phase test voltage: 100~750V





#### **EV & HEV Service Tools & Equipment**









#### FLU-4977402

#### 1550C FC - Fluke Connect® 5 kV Digital Insulation Tester

- Remote operation lets you spend as little time as possible in potentially hazardous zones
- Real-time live graph on your phone
- Automatic calculation of DAR/PI
- Selectable test voltages in 50V steps from 250V to 1000V, and 100V steps above 1000V
- CAT III 1000 V, CAT IV 600V safety rating
- Measurements can be stored in up to 99 memory locations
- Capacitance and leakage current measurement
- · Ramp function for breakdown testing
- Resistance measurements up to  $2 T\Omega$
- Timer settings up to 99 minutes for timed tests

#### FLUKE

#### FLU-5066006

#### Fluke 1507 - Insulation Resistance Tester

- Rugged, compact advanced insulation resistance tester for electrical contractors and industrial and commercial electricians
- Automatically calculates Polarization Index and Dielectric Absorption Ratio
- Makes repetitive tests simple and easy with a Compare (Pass/Fail) function
- Voltage AC/DC: 0.1V to 600V
- Continuity: 200 mA
- Resistance: 0.01  $\Omega$  to 20.00 k $\Omega$
- Insulation test range:  $0.01 \, M\Omega$  to  $10 \, G\Omega$
- Insulation test voltages: 50V, 100V, 250V, 500V, 1000V



#### FLUKE:



#### FLU-4691215

#### Fluke 1587 FC -**Insulation Tester & True RMS Multimeter**

- Fluke Connect®-enabled
- PI/DAR timed ratio tests
- Insulation test range: 0.01 M $\Omega$  to 2 G $\Omega$
- Insulation test voltages: 50V, 100V, 250V, 500V, 1000V
- Voltage AC/DC: 1000V
- Capacitance, diode test, temperature, Min/Max, and frequency
- Continuity: 200 mA
- Resistance: 50 MΩ



KLEIN

#### KLF-FT600

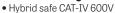
#### **Insulation Resistance Tester** with Multimeter Test Functions

- Test voltages: 125V, 250V, 500V, 1000V
- Insulation resistance: 4000MΩ
- Test lock
- Live circuit detection
- AC/DC voltage: 1000V
- Resistance: 4kΩ
- True RMS Audible continuity
- Auto-ranging, Auto-Zero
- Data hold Min/Max value
- Bar graph
- CAT IV 600V and CAT III 1000V



#### PWP-PPDMM

#### **Automotive Digital Multimeter**



- Digital Volt and Ohmmeter for circuit testing Measures:
- AC/DC Voltage to 600V
- Current to 10 Amps
- Resistance/Diode/Continuity to 60M Ohms
- Capacitance: 0.0001µF to 60,000µF
- Frequency, duty cycle
- Temperature from -4°F to 1.832°F (-20°C to 1.000°C)
- Data hold, Min/Max capture, relative measurement





#### BOSCH

#### BSD-F00E9001013CM

#### MMD 540H Hybrid Digital Multimeter

- CAT III (1,000V) safety rating for hybrid vehicle circuits
- Peak, Min/Max readings as fast as 1 millisecond
- Higher amperage test ranges, up to 20 Amps
- Inductive RPM clamp for conventional and DIS ignition systems
- Fused diagnostic test leads for safe trouble shooting (up to 20 amps)
- K-Type thermocouple for quick temperature measurement
- Trilingual users manual on CD





#### ESI-550

#### **EV & Hybrid Vehicle Insulation Tester**

- Test voltages: 250V-200MΩ,  $500V-200M\Omega$ 1000V-2000MΩ
- AC voltage: 0-750V, 1V resolution
- DC voltage: 0-1000V, 1V resolution
- Resistance:  $0-200\Omega$ ,  $2000\Omega$ , 0.1 Ohm resolution
- Insulation resistance:  $200M\Omega$ ,  $2000M\Omega$ 200k resolution
- Continuity test: Audible beep ≤40Ω Test current ≤200mA
- Auto-ranging Large dual display
- Test Hold function Over Range indication CAT III 1000V



#### **Automotive Meter with PC Interface**

- Safe for use on hybrids and EV's
- CAT III 1.000 Volt

ESI-595

- Max/Min function
- DC Volts: 1000V AC Volts: 750V
- AC/DC Amps: 20A
- Ohms: 40MΩ Capacitance: 100uF
- RPM 4: 0-4,000 RPM, 12,000 RPM x 10
- RPM2/DIS: 0-4,000 RPM, 6,000 RPM x 10
- Dwell: 1, 2, 3, 4, 5, 6, 8, 10, & 12 cylinder • Frequency: 0-5Hz, 50Hz, 500Hz, 5kHz, 30kHz
- Duty cycle: 0.1% 99.9%
- mS pulse width: 2.0mS 10.0mS
- Temperature: -4°F to 1400°F, -20°C to 760°C
- Continuity Diode test







**EV & HEV Service Tools & Equipment** 



## **AUTEL** MAXISYS

#### **AUL-EVDIAGKIT**

#### **EV Diagnostics Upgrade Kit**

- Includes EVDiag Box, software, and adapters for specific vehicles to achieve battery packs diagnostics for electric vehicles
- Compatible with the MaxiSYS Ultra, MaxiSYS Ultra ADAS, MaxiSYS MS919, and MaxiSYS MS909

#### **BATTERY PACK DIAGNOSTICS**

- In-depth battery pack diagnostics for the most popular EV vehicles on the market including BMW, Tesla, and VW/Audi
- State of Charge and State of Health analysis for true battery condition





# MS909EV & MSULTRAEV INTELLIGENT EV DIAGNOSTICS



## Intelligent EV Diagnostics Tablets

- Secure high-voltage system testing and analysis
- Advanced diagnostics for U.S., European and Asian electric, gas & diesel, and hybrid vehicles

	AUL-MS909EV	AUL-MSULTRAEV	
HARDWARE			
Wireless Vehicle Connection	Bluetooth MaxiFash VCI	Bluetooth MaxiFash VCMI	
Colour Touchscreen	10" LCD	13" LCD	
Processor	2.2 GHz + 1.8 GHz Octa-Core	<b>2.2 GHz + 1.8 GHz</b> Octa-Core	
Memory / RAM	128GB SSD / 4GB RAM	256GB SSD / 4GB RAM	
Docking Station		Included	
EVDiag Box	Included	Included	
SOFTWARE			
Operating System	ANDROID 10.0	ANDROID 7.0	
Split Screen Display		View Multiple Functions At Once	
High-Voltage System Diagnostics	Diagrams of High-Voltage System Block	Diagrams of High-Voltage System Block	
Battery Pack Diagnostics	SOC and SOH Analysis	SOC and SOH Analysis	
Advanced VCMI 5-in-1 Device		VCI, Oscilloscope, Multimeter, Waveform Generator, CAN Bus Check	
Secure Gateway Access	Authorized FCA Access with AutoAuth Account	Authorized FCA Access with AutoAuth Account	
FEATURES			
Service Resets	36 Service Features	36 Service Features	
Diesel (Light & Medium Duty)	Reset Diesel Emissions	Reset Diesel Emissions	





EV & HEV Service Tools & Equipment





ARCTIC COMMANDER	MTC-COMMANDER4100	
FEATURES	Automatic R1234YF & Hybrid	
Colour Touch Screen	10"	
Automatic and Manual Procedures	•	
Automatic Vacuum Leak Test: Programmable		
Printer	E-Printing Capable	
Vehicle A/C System Flushing	Optional	
Vacuum Pump	6 CFM	
Refrigerant Identifier		
Wi-Fi Capable		





MAXX @AIR	CPS-MSX3030	CPS-MSX1234	CPS-MXHD
FEATURES	R134A & R1234YF Hybrid/EV Compatible	R1234YF Hybrid/EV Compatible	R134A Commercial Vehicles/Hybrid/EV Compatible
Colour Touch Screen	7"	7"	7"
Printing	Wi-Fi printer capable. Thermal printer (optional).	Wi-Fi printer capable. Thermal printer (optional).	Wi-Fi printer capable. Thermal printer (optional).
Recovery Tanks	Includes 2 x 30lb. Compatible with 50lb.	Includes 1 x 30lb. Compatible with 50lb.	Includes 1 x 50lb. Compatible with 90lb.
Vacuum Pump	2 CFM	2 CFM	6 CFM
Refrigerant Identifier		•	
Wi-Fi Enabled		•	
Bluetooth® Enabled			



#### ROBINAIR.

	ROB-AC1234-9	ROB-AC1234-4	ROB-34788NI-H
FEATURES	R1234YF & Hybrid Compatible	R1234YF & Hybrid Compatible	R134A Hybrid Compatible
Colour Display	10"	4.3" Diag.	5" x 9"
Fully Automatic Operation			•
Printer	Google Cloud Printing	Optional	Optional
A/C System Flushing			
Refrigerant Identifier			
Vacuum Pump	1.5 CFM	1.5 CFM	1.5 CFM
Connectivity	Incorporated Wi-Fi & Bluetooth® Technology	Wi-Fi & Bluetooth® Capable (optional kit)	Wi-Fi Capable (optional kit)

Buy #ROB-AC1234-4 and obtain #ROB-30038 for free: Printer.



**EV & HEV Service Tools & Equipment** 

#### TRACERLINE®





#### HBF-TPOPUV20EV

#### POE-Based EV A/C Dye **UV Leak Detection Kit**

- Compatible with R-1234vf & R-134a
- TP9815EV-P3: (3) 0.25 oz (7 ml) cartridges of Electric Vehicle POE-based A/C Dye Mini-EZ™ cartridges
  • TP9845: EZ-Ject™ dye injector
- TP-9813: R-134a coupler and purge fitting
- TP19: fluorescent dye cleaner
- TP9831: R-1234yf adapter



#### TRACERLINE®



#### POE-Based EV A/C Dye MINI-EZ™ Injection Kit

- Compatible with R-1234yf & R-134a
- TP9815EV-P3: (3) 0.25 oz (7 ml) cartridges of Electric Vehicle POE-based A/C Dye Mini-EZ™ cartridges
- **TP9845:** EZ-Ject™ dye injector
- TP-9813: R-134a coupler and purge fitting
- TP9831: R-1234yf adapter
- Services up to 3 vehicles







#### TRACERLINE®





#### HBF-TP9815EV-P3

#### POE-Based EV A/C Dye MINI-EZ™ Cartridges

- Compatible with R-1234vf & R-134a
- (3) 0.25 oz (7 ml) single-dose Electric Vehicle A/C dye cartridges
- Services up to 3 vehicles



#### TRACERLINE®





#### **Electric Vehicle** A/C Oil & A/C Oil + UV Dye

- Compatible with R-1234yf & R-134a

Services 1 vehicle		
Item #	Description	
HBF-TP100EV-5	5 oz (148 ml) Foil Pouch with POE-Based A/C Oil	
HBF-TP100EVD-5	5 oz (148 ml) Foil Pouch with POE-Based A/C Oil + UV Fluorescent Dye	





TP100EVD-5

#### TRACERLINE®



#### HBF-TP9812-BX

#### **Hybrid Vehicle/ESTER** MINI-EZ™ Universal A/C Dye Injection Kit

- Uniquely blended with special additives for hybrid A/C systems
- Compatible with R-1234yf & R-134a
- TP9811-P3: (3) 0.25 oz (7 ml) single-dose Hybrid Vehicle/Ester A/C dye cartridges
- **TP9845:** EZ-Ject™ dye injector
- TP-9813: R-134a coupler and purge fitting
- TP9831: R-1234yf adapter
- Services up to 3 vehicles

#### TRACERLINE®





#### **Hybrid Vehicle/ESTER** MINI-EZ™ Universal A/C Dye

- Uniquely blended with special additives for hybrid A/C systems
- Compatible with R-1234yf & R-134a
- (3) 0.25 oz (7 ml) single-dose Hybrid Vehicle/Ester A/C dye cartridges
- Services up to 3 vehicles

#### TRACERLINE®



#### **Hybrid Vehicle /ESTER** A/C Oil & A/C Oil + UV Dye

- Compatible with R-1234yf & R-134a
- Services 1 vehicle
- Viscosity: 32 cSt/Ester

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Item #	Description
HBF-TP32EH-5	5 oz (148 ml) Foil Pouch with A/C Oil
HBF-TP32EHD-5	5 oz (148 ml) Foil Pouch with A/C Oil + UV Dye





TP32EHD-5





g2stobeq.ca

Please contact your local Distributor for pricing and availability.

