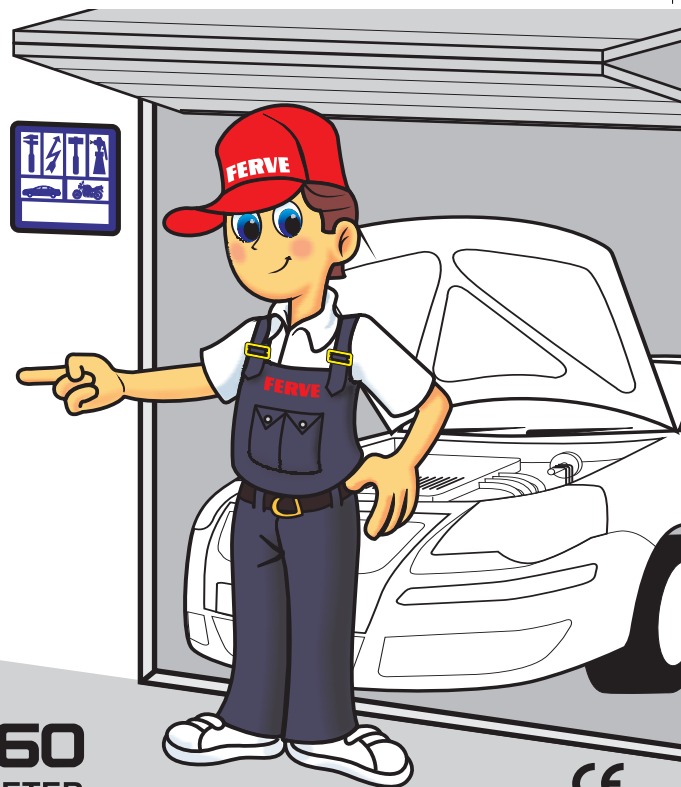


E MANUAL DE INSTRUCCIONES
GB INSTRUCTIONS MANUAL



FERVE F-1860
AUTOMOTIVE MULTIMETER

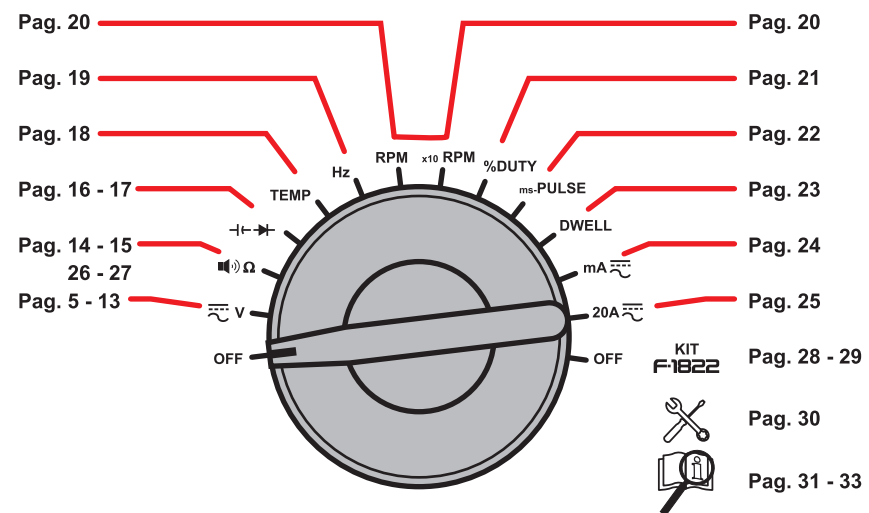


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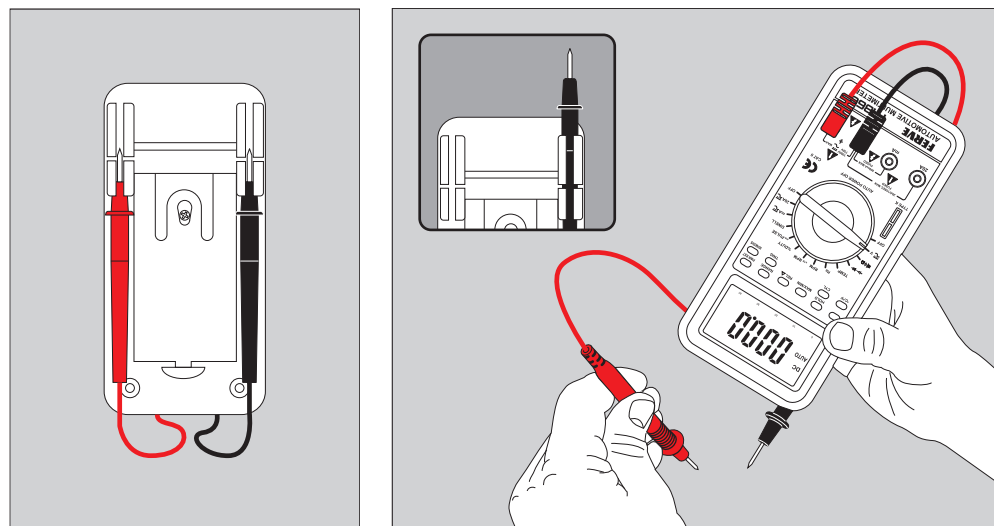


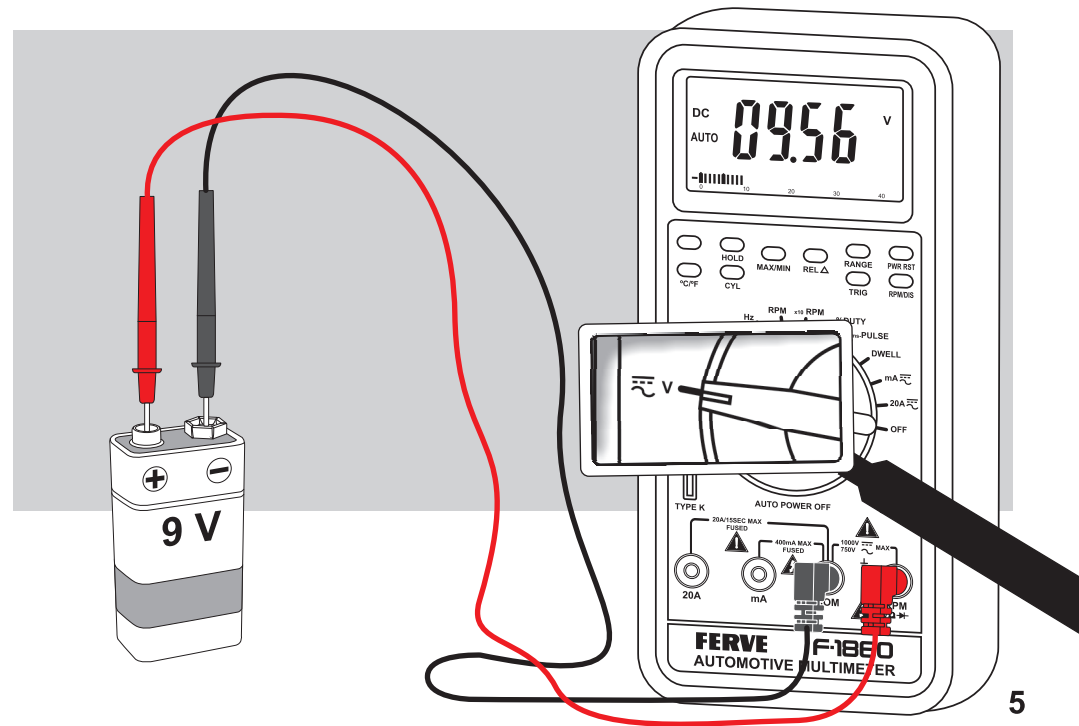
AUTOMOTIVE MULTIMETER

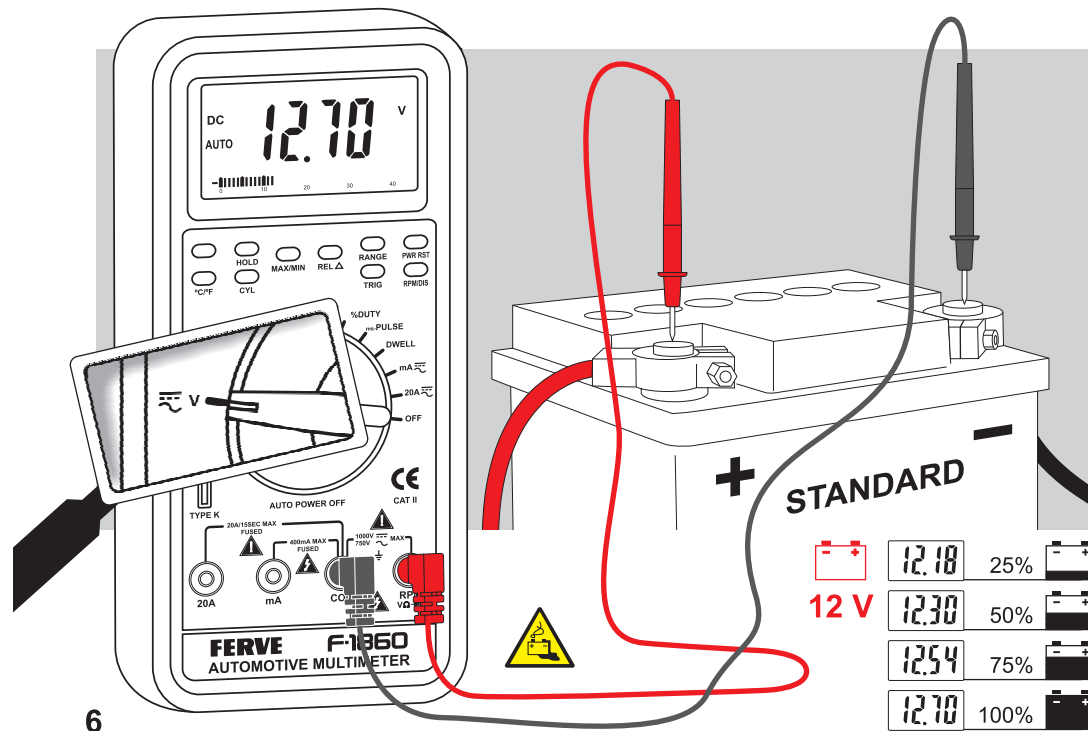


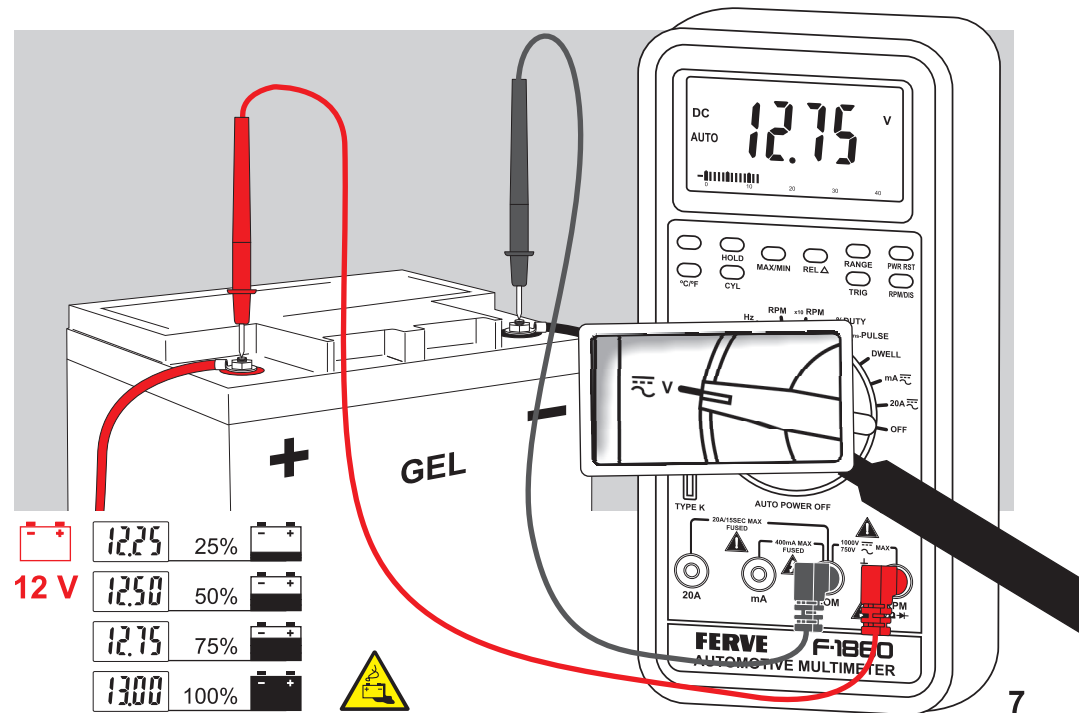
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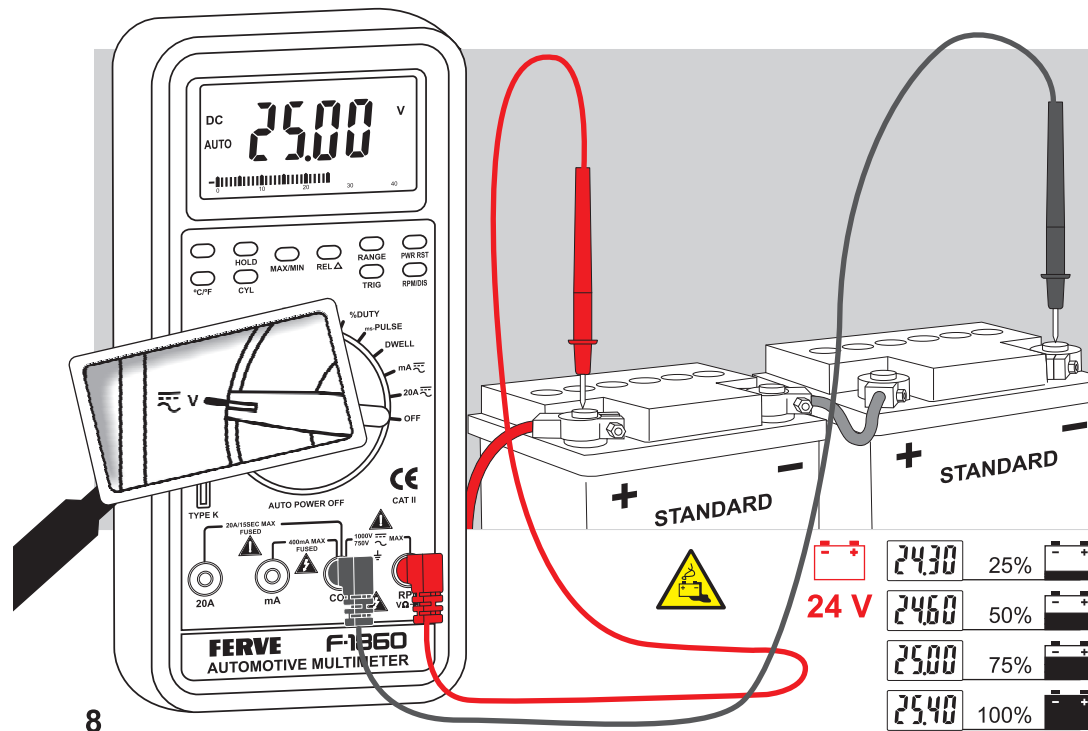
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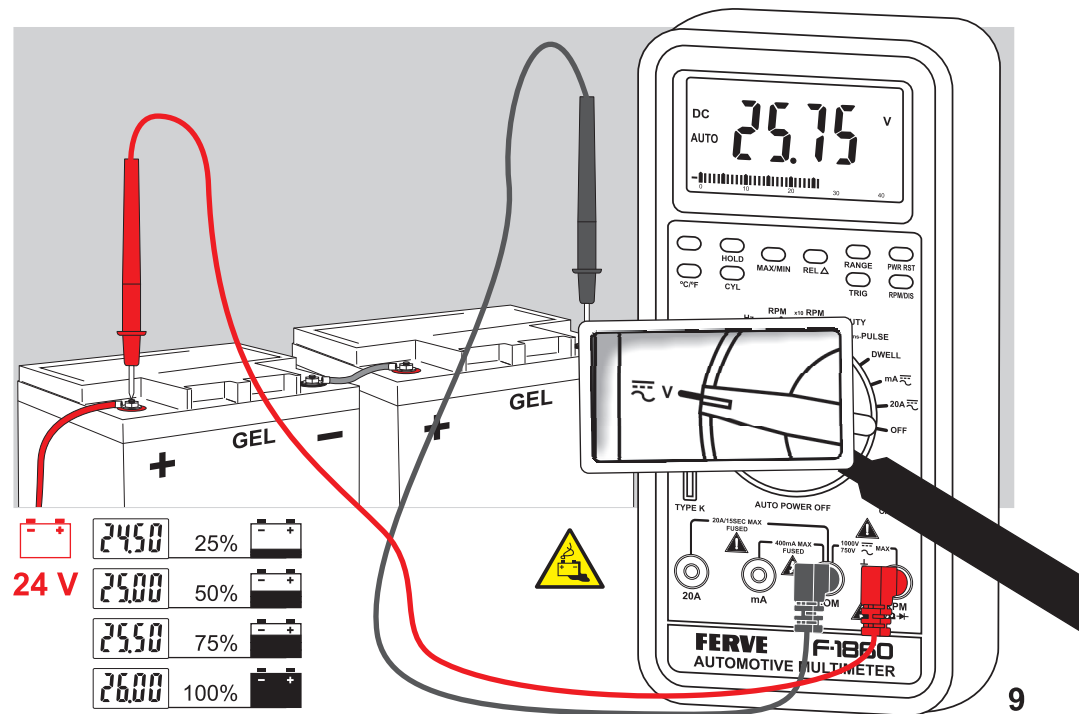


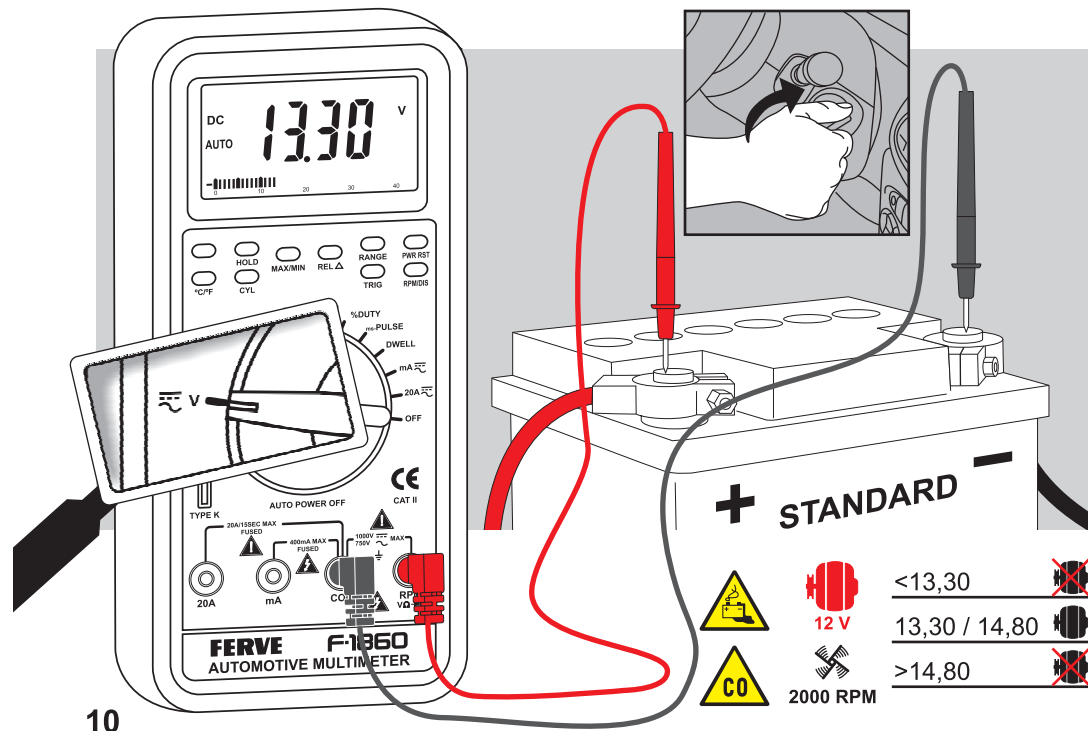


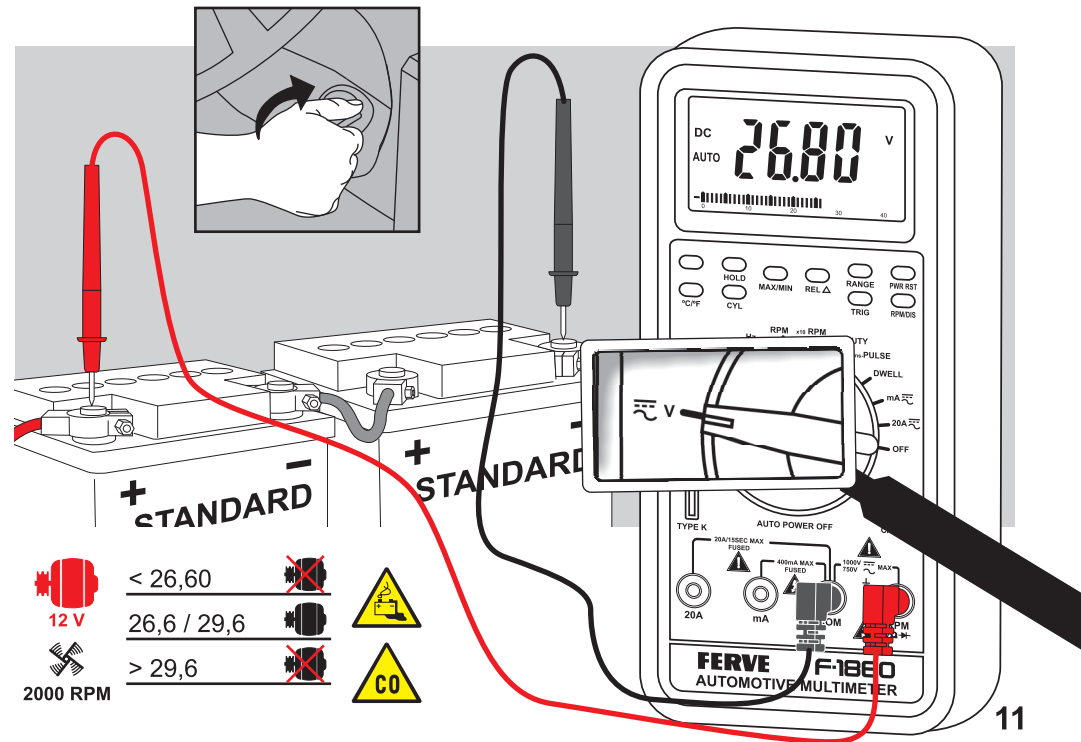


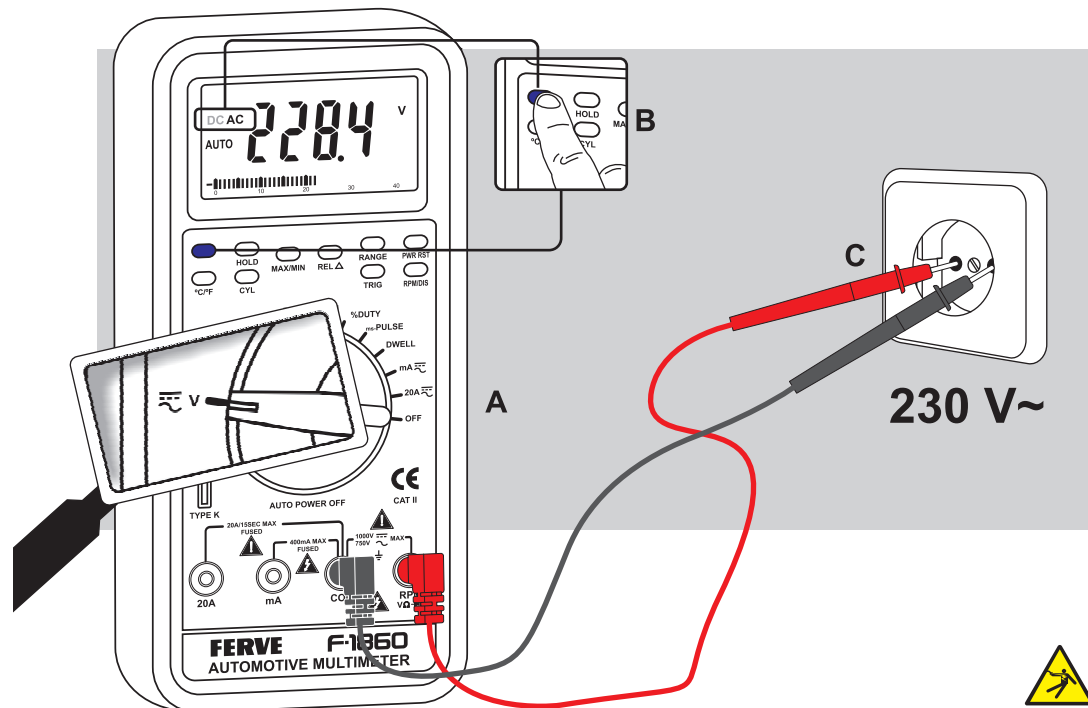


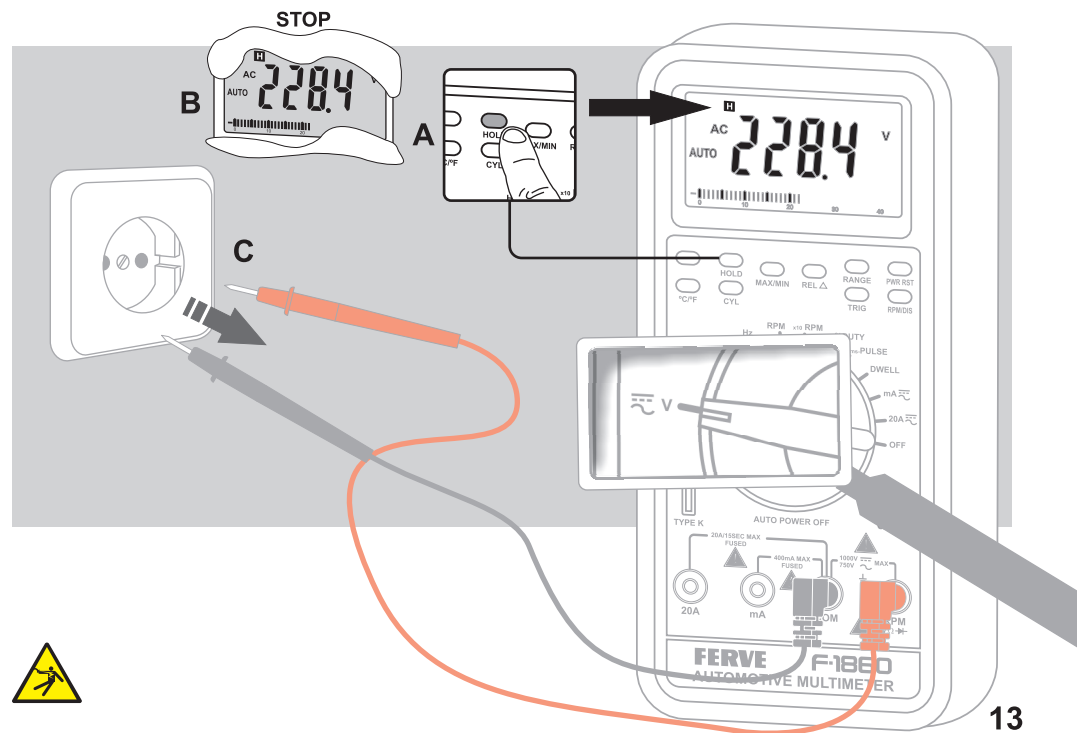


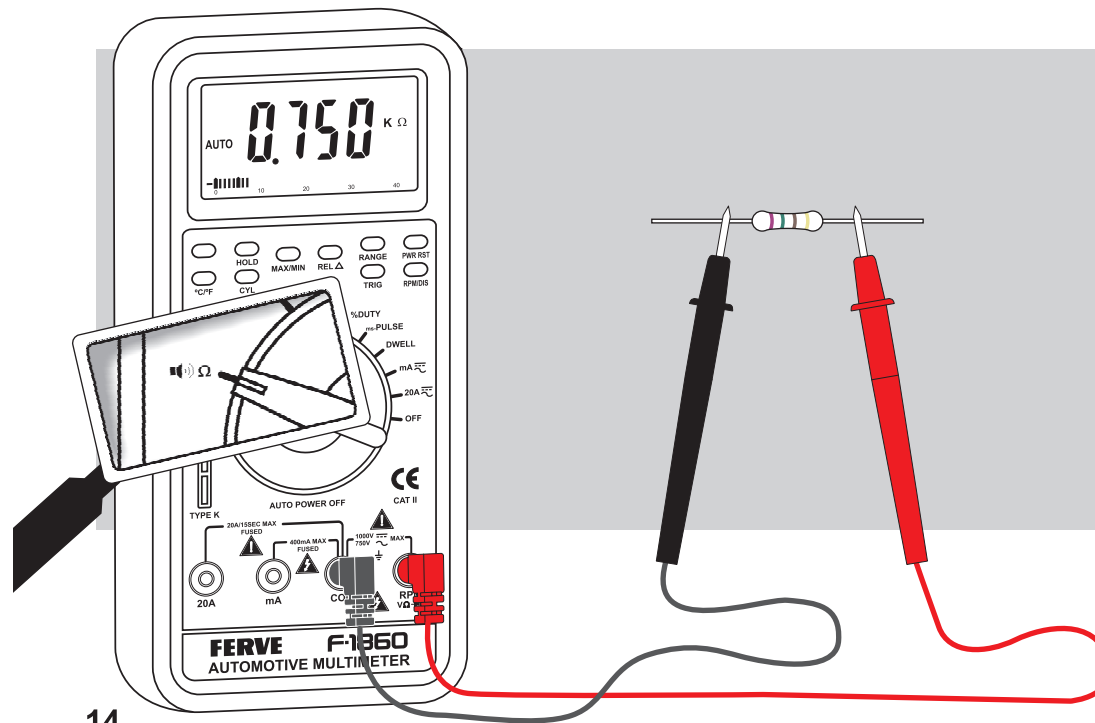


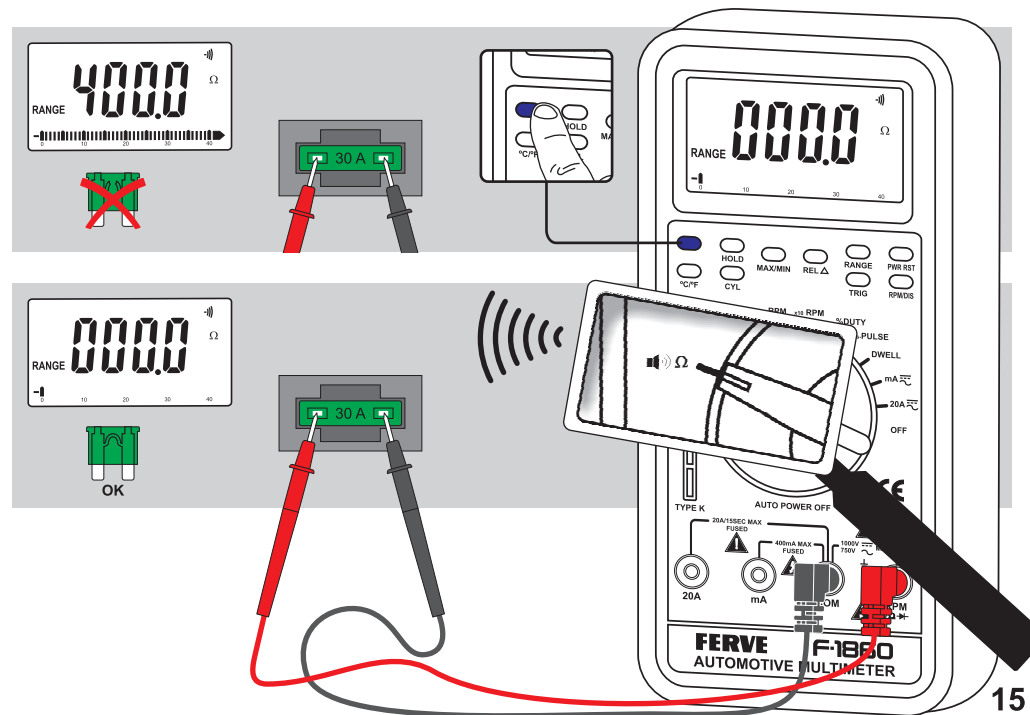


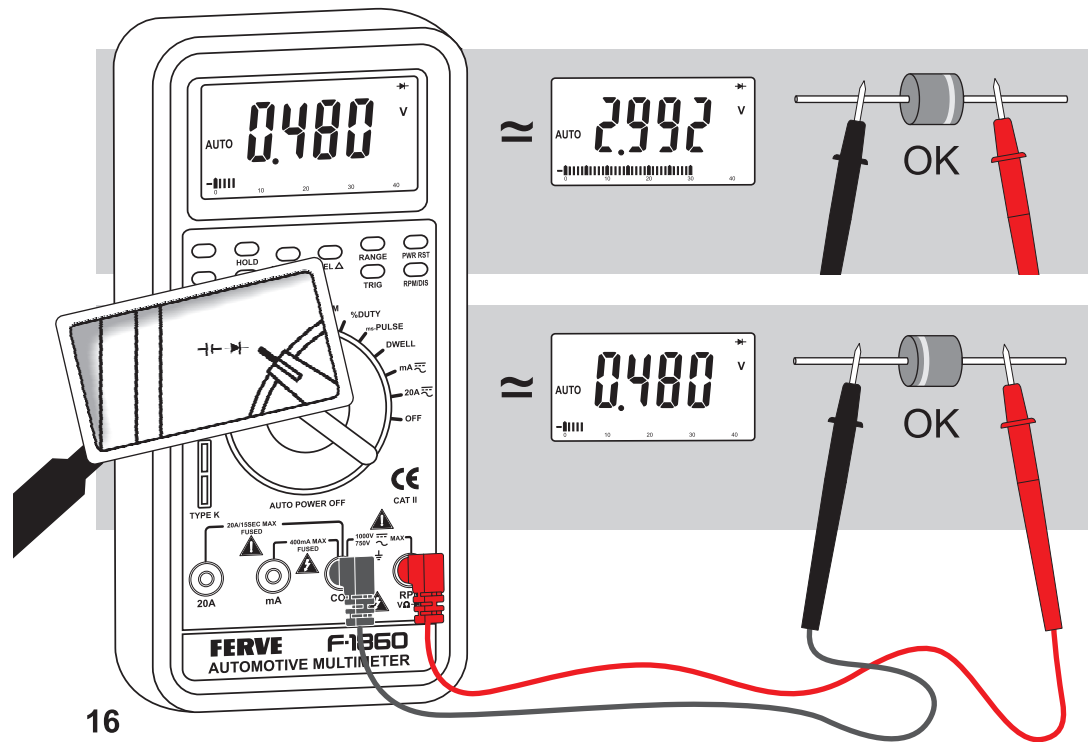


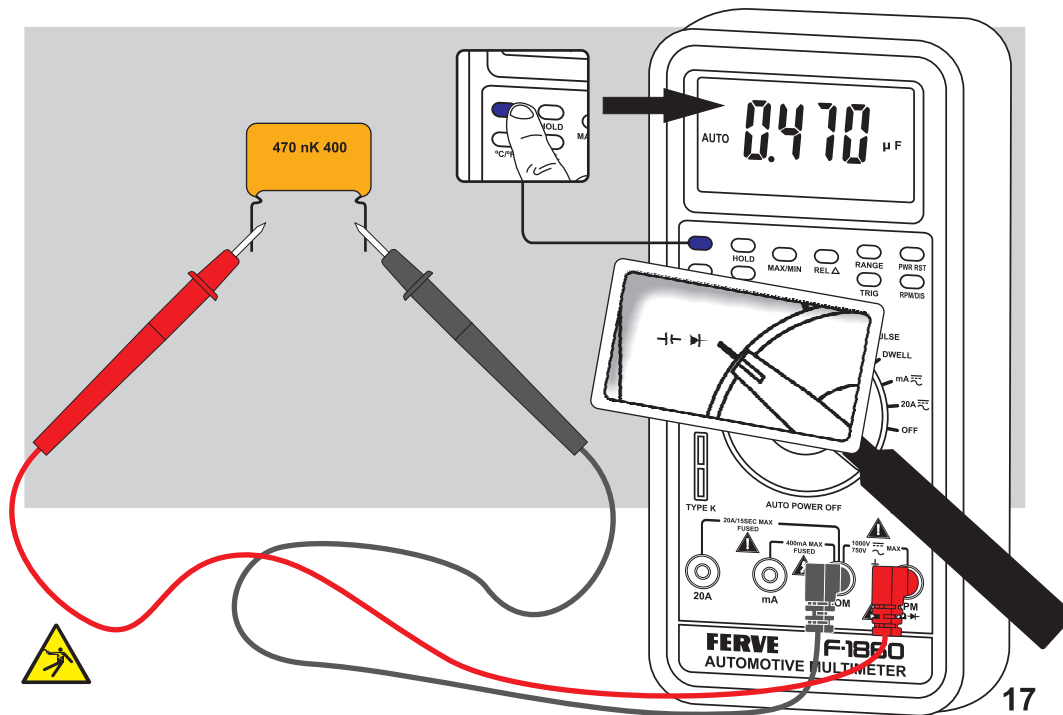


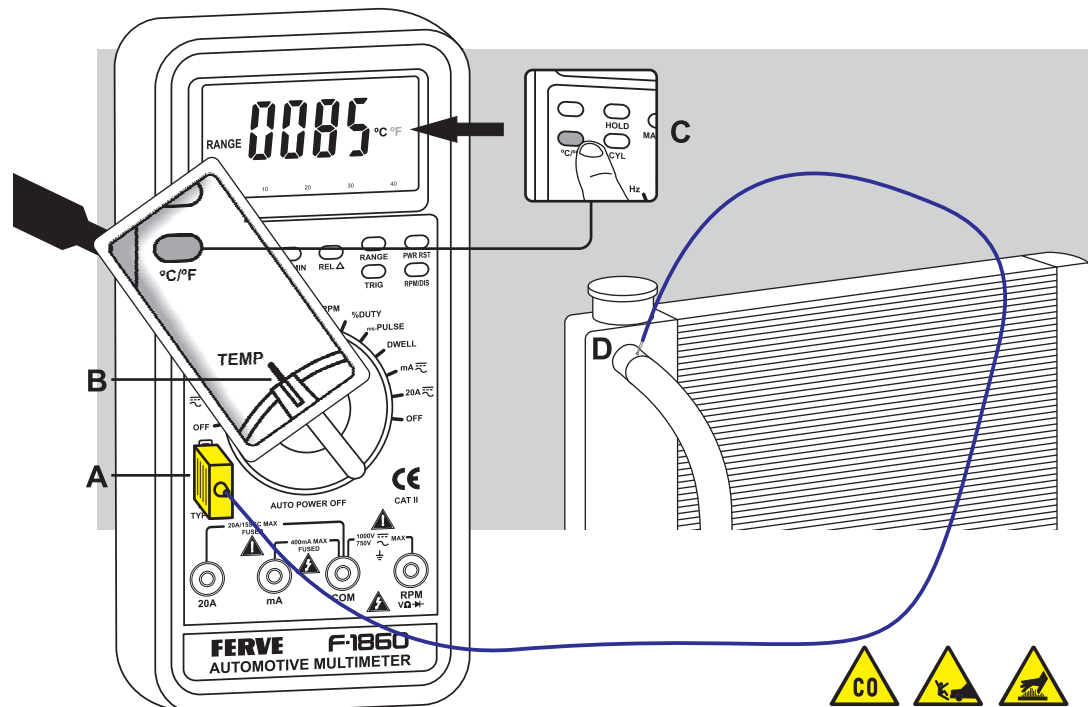


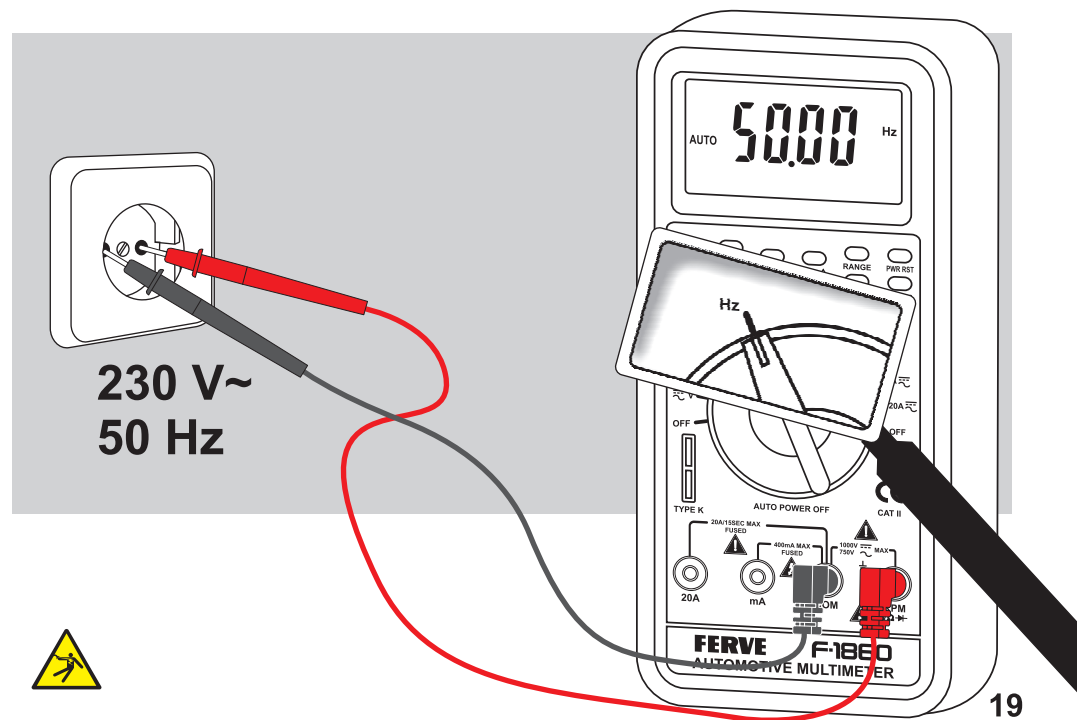


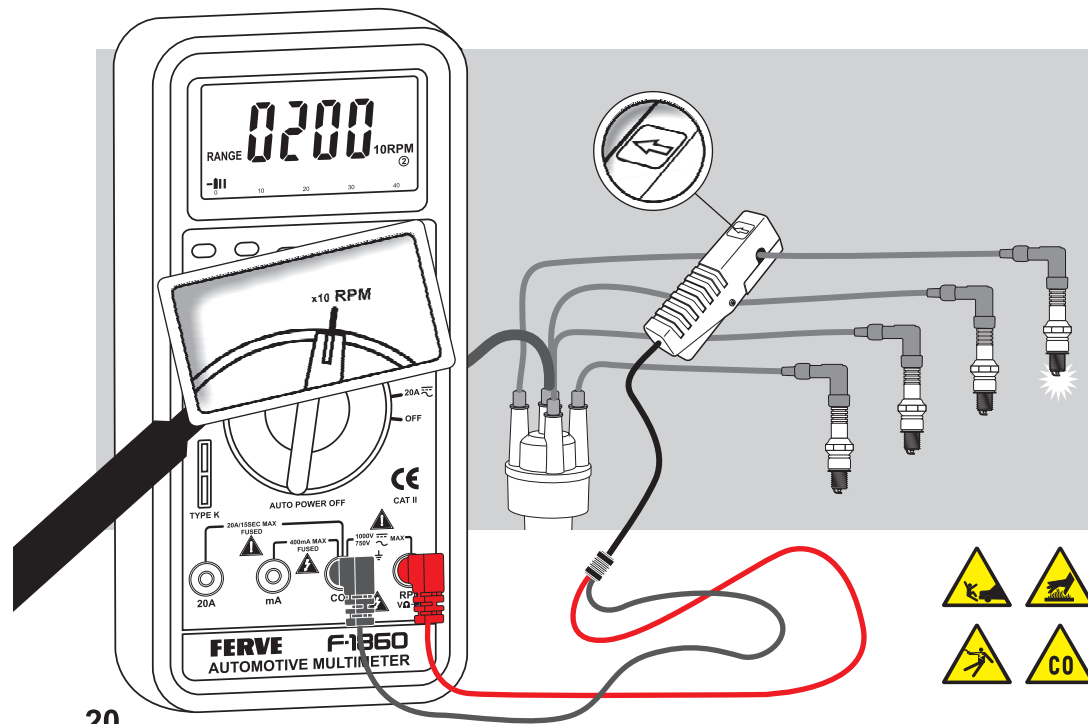


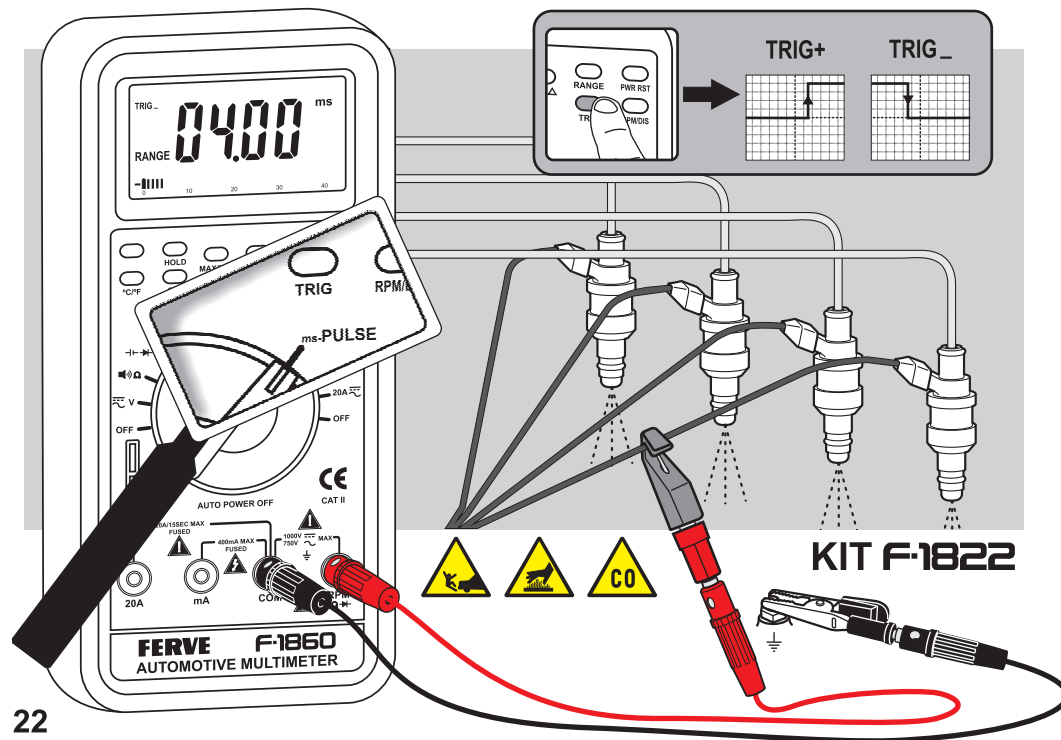


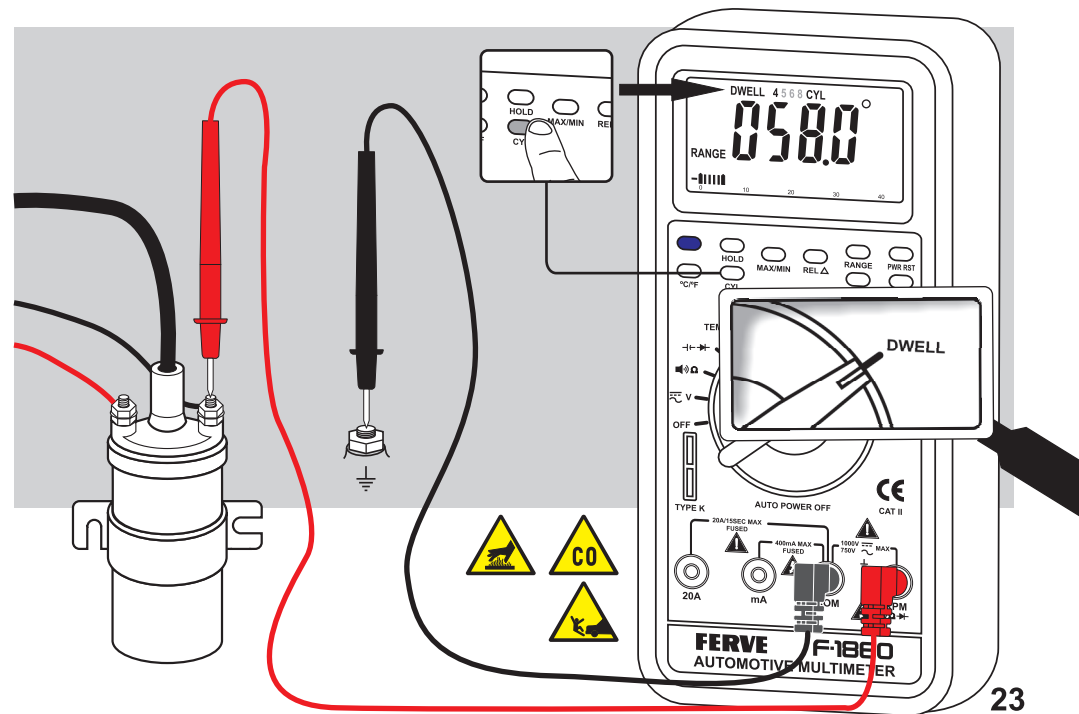


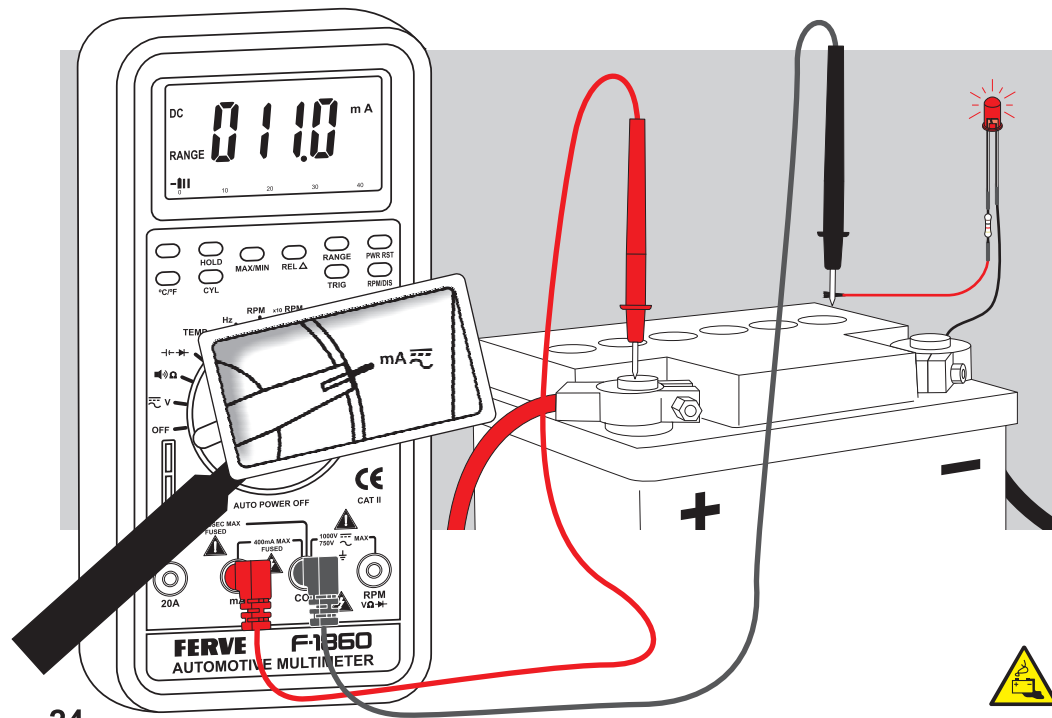


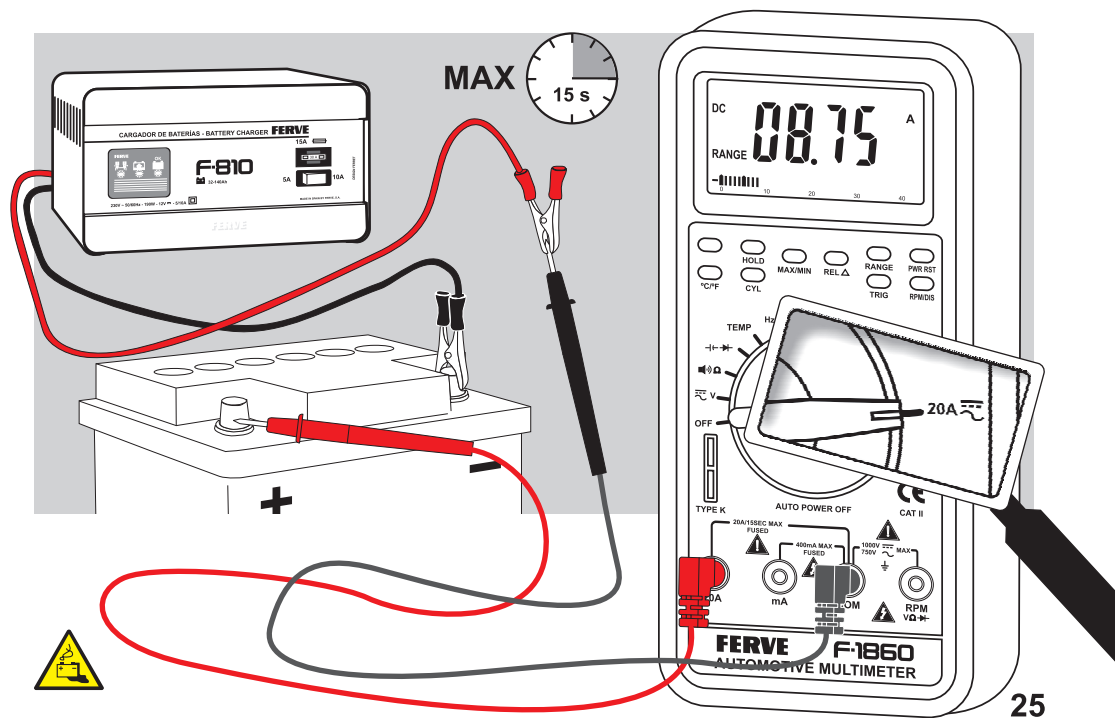


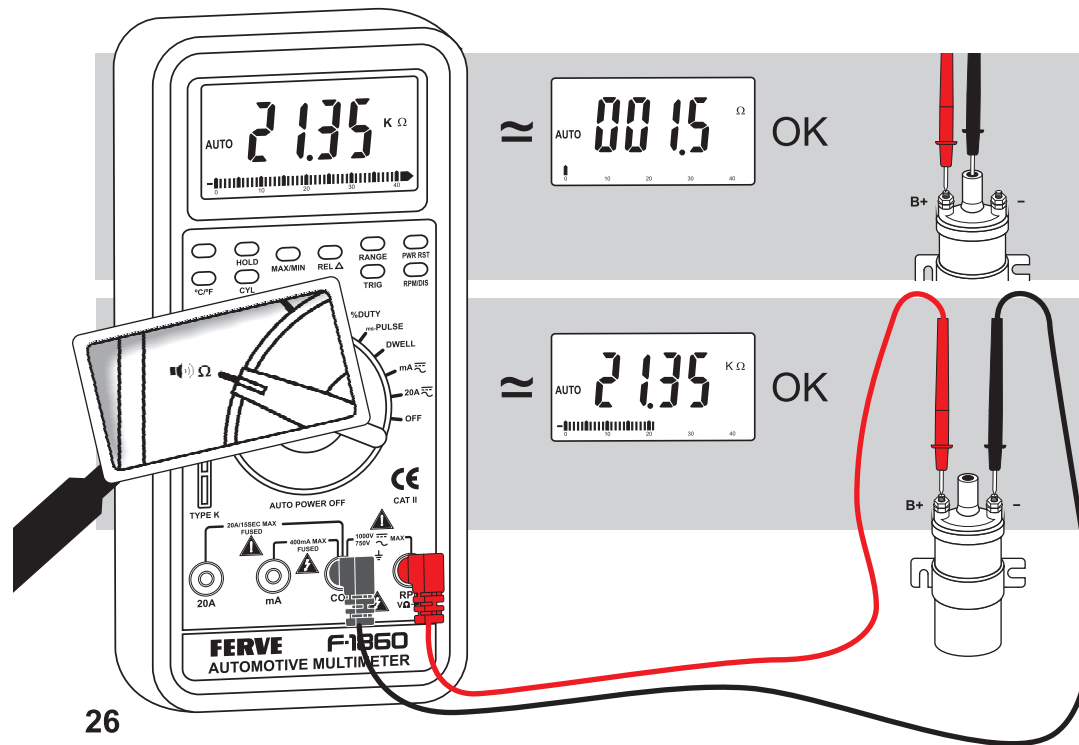


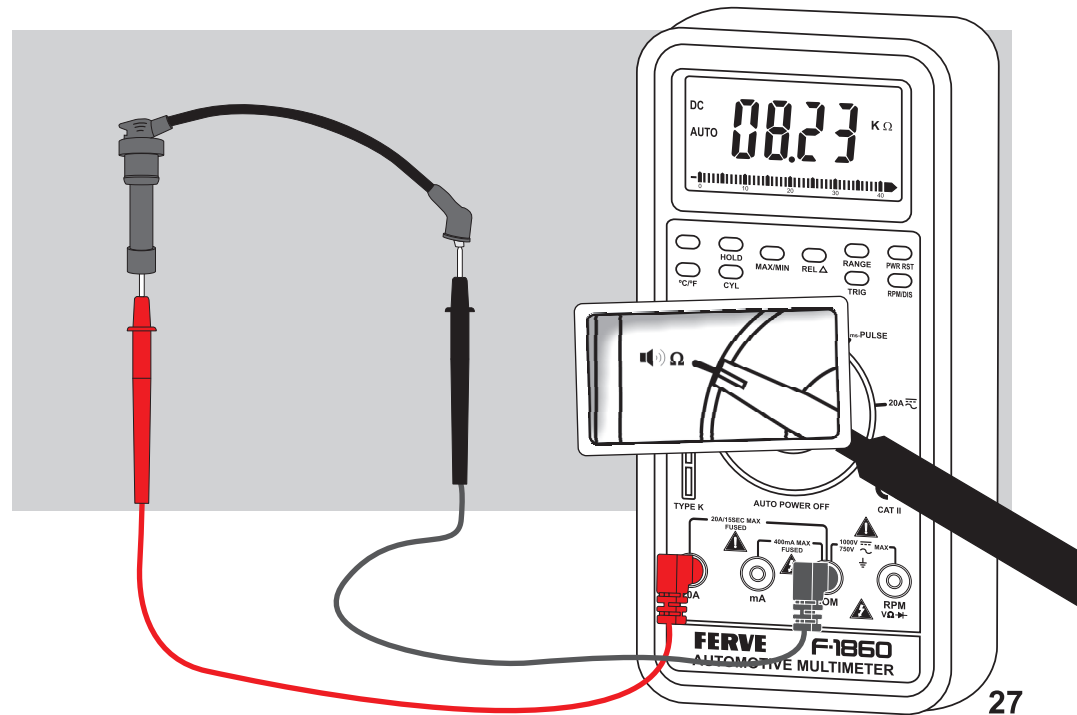






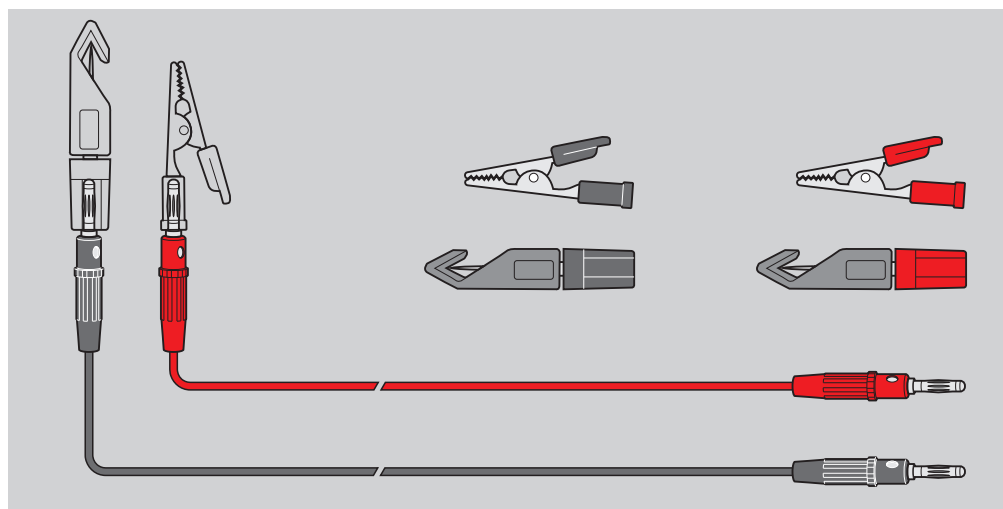






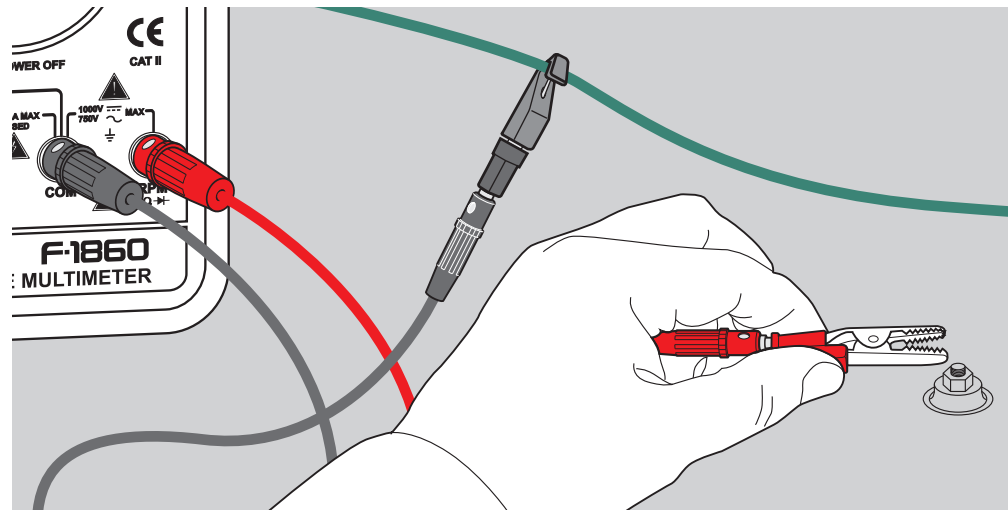
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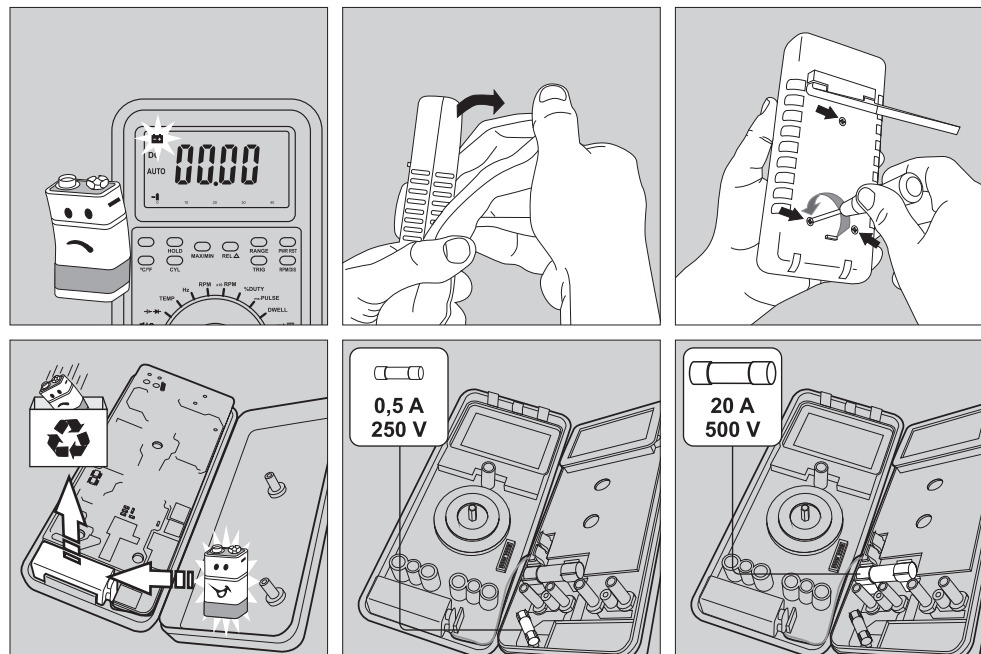


KIT F-1822

F-1860



KIT F-1822



DC VOLTAGE / TENSIÓN DC (Autoranging/Autorrango)

Ranges/Rangos	Resolution/Resolución	Accuracy/Precisión
400 mV	100 μ V	$\pm 0,5\% \pm 1$ dig.
4 V	1 mV	$\pm 0,5\% \pm 1$ dig.
40 V	10 mV	$\pm 0,5\% \pm 1$ dig.
400 V	100 mV	$\pm 0,5\% \pm 1$ dig.
1000 V	1 V	$\pm 0,5\% \pm 1$ dig.

AC VOLTAGE / TENSIÓN AC (Autoranging/Autorrango)

Ranges/Rangos	Resolution/Resolución	Accuracy/Precisión
400 mV	100 μ V	$\pm 1,2\% \pm 3$ dig. 50 – 500Hz
4 V	1 mV	$\pm 1,2\% \pm 3$ dig. 50 – 500Hz
40 V	10 mV	$\pm 1,2\% \pm 3$ dig. 50 – 500Hz
400 V	100 mV	$\pm 1,2\% \pm 3$ dig. 50 – 500Hz
750 V	1 V	$\pm 1,2\% \pm 3$ dig. 50 – 500Hz

DC CURRENT / INTENSIDAD DC

Ranges/Rangos	Resolution/Resolución	Accuracy/Precisión
400 mA	0,1 mA	$\pm 1\% \pm 1$ dig.
20 A	10 mA	$\pm 1,5\% \pm 1$ dig.

AC CURRENT / INTENSIDAD AC

Ranges/Rangos	Resolution/Resolución	Accuracy/Precisión
400 mA	0,1 mA	$\pm 1,5\% \pm 3$ dig. 50 – 500Hz
20 A	10 mA	$\pm 2,0\% \pm 3$ dig. 50 – 500Hz

RESISTANCE / RESISTENCIA (Autoranging/Autorrango)

Ranges/Rangos	Accuracy/Precisión	
400 Ω	$\pm 1,2\% \pm 4$ dig.	
4 K Ω	$\pm 1,0\% \pm 2$ dig.	
40 K Ω	$\pm 1,0\% \pm 2$ dig.	
400 K Ω	$\pm 1,0\% \pm 2$ dig.	
4 M Ω	$\pm 2\% \pm 4$ dig.	
40 M Ω	$\pm 2\% \pm 4$ dig.	

AUDIBLE CONTINUITY / CONTINUIDAD AUDIBLE

Open circuit / Circuito abierto	Audible reshold / Zona audio	
0,4 VDC	0 - 40 Ω	

DIODE TEST / PRUEBA DIODO

Test current / Intensidad test	Resolution / Resolución	Accuracy/Precisión
0,6 mA	1 mV	$\pm 2,0\% \pm 2$ dig.
Open circuit voltage / Tensión en circuito abierto 3,0 VDC		

CAPACITANCE / MEDIDAS DE CAPACIDAD (Autoranging/Autorrango)

Ranges/Rangos	Resolution / Resolución	Accuracy/Precisión
4 nF	1 pF	$\pm 2,0\% \pm 20$ dig.
40 nF	10 pF	$\pm 2,0\% \pm 4$ dig.
400 nF	100 pF	$\pm 2,0\% \pm 4$ dig.
4 μ F	1 nF	$\pm 2,0\% \pm 4$ dig.
40 μ F	10 nF	$\pm 5,0\% \pm 4$ dig.

TEMPERATURE / TEMPERATURA

Ranges/Rangos	Resolution/Resolución	Accuracy/Precisión
-50 / 1100 $^{\circ}$ C -50 / 2000 $^{\circ}$ F	1 $^{\circ}$ C / 1 $^{\circ}$ F	$\pm 1,0\% \pm 2$ $^{\circ}$ C / $\pm 1,0\% \pm 4$ $^{\circ}$ F

FREQUENCY / FRECUENCIA

Ranges/Rangos	Resolution/Resolución	Accuracy/Precisión
100 Hz	0,01 Hz	±0,1% ±15 dig.
1 KHz	0,1 Hz	±0,1% ±4 dig.
10 KHz	1 Hz	±0,1% ±4 dig.
100 KHz	10 Hz	±0,1% ±4 dig.
400 KHz	100 Hz	±5,0% ±4 dig.

RPM (Tach) / RPM (Tacómetro)

Ranges/Rangos	Resolution/Resolución	Accuracy/Precisión
600 - 4000 Hz	1 RPM	±2,0% ±1 dig.
6000 - 12000 Hz (x10 RPM)	10 RPM	±2,0% ±1 dig.

% DUTY CYCLE / % CICLO DE TRABAJO

Ranges/Rangos	Resolution/Resolución	Accuracy/Precisión
0,00% - 90,0%	0,1%	±2,0% ±5 dig.

PULSE WIDTH / ANCHO DE PULSO

Ranges/Rangos	Accuracy/Precisión
0,1 ms - 10 ms	±2,0% ±0,2 ms

DWELL ANGLE / ÁNGULO DWELL

Ranges/Rangos	Resolution/Resolución	Accuracy/Precisión
0 - 90,0° (4 CYL)	0,1°	±2,0% ±5 dig.
0 - 72,0° (5 CYL)	0,1°	±2,0% ±5 dig.
0 - 60,0° (6 CYL)	0,1°	±2,0% ±5 dig.
0 - 45,0° (8 CYL)	0,1°	±2,0% ±5 dig.

$$\mathbf{A} = \frac{V}{\Omega} = \frac{W}{V} = \sqrt{\frac{W}{\Omega}}$$

$$\mathbf{W} = V \times A = \Omega \times A^2 = \frac{V^2}{\Omega}$$

$$\mathbf{V} = \Omega \times A = \frac{W}{A} = \sqrt{W \times \Omega}$$

$$\mathbf{\Omega} = \frac{V}{A} = \frac{V^2}{W} = \frac{W}{A^2}$$





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