





MR CARTOOL

MAIN MENU



BATTERY CAPACITY



BATTERY SYSTEM TESTER

B 300





MR. CAR TOOL

MAIN MENU

BATTERY CAPACITY

ENTER [Left Arrow] [Right Arrow] ESC

BATTERY SYSTEM TESTER
B300



MR. CARTOOL

2021-05-11 16:37:22

BATTERY
TESTER
12.10V



ENTER



ESC

BATTERY SYSTEM TESTER
B300

MR CARTOOL

MAIN MENU



BATTERY CAPACITY



BATTERY SYSTEM TESTER

B 300

Mrcartool[®]



Support
12V/24V Battery



Battery
Capacity Test



Cranking
Test



Charge
System Test



3.2-inch
Color Screen



Data
Review



Time
Display



15
Languages

B300

BATTERY SYSTEM TESTER



SUITABLE FOR VARIOUS BATTERY TYPES

Support ordinary lead-acid battery, AGM flat plate battery, AGM spiral battery, GEL battery, EFB battery.
For 12V or 24V batteries.



Regular Flooded



AGM Flat Plate



AGM Spiral



GEL

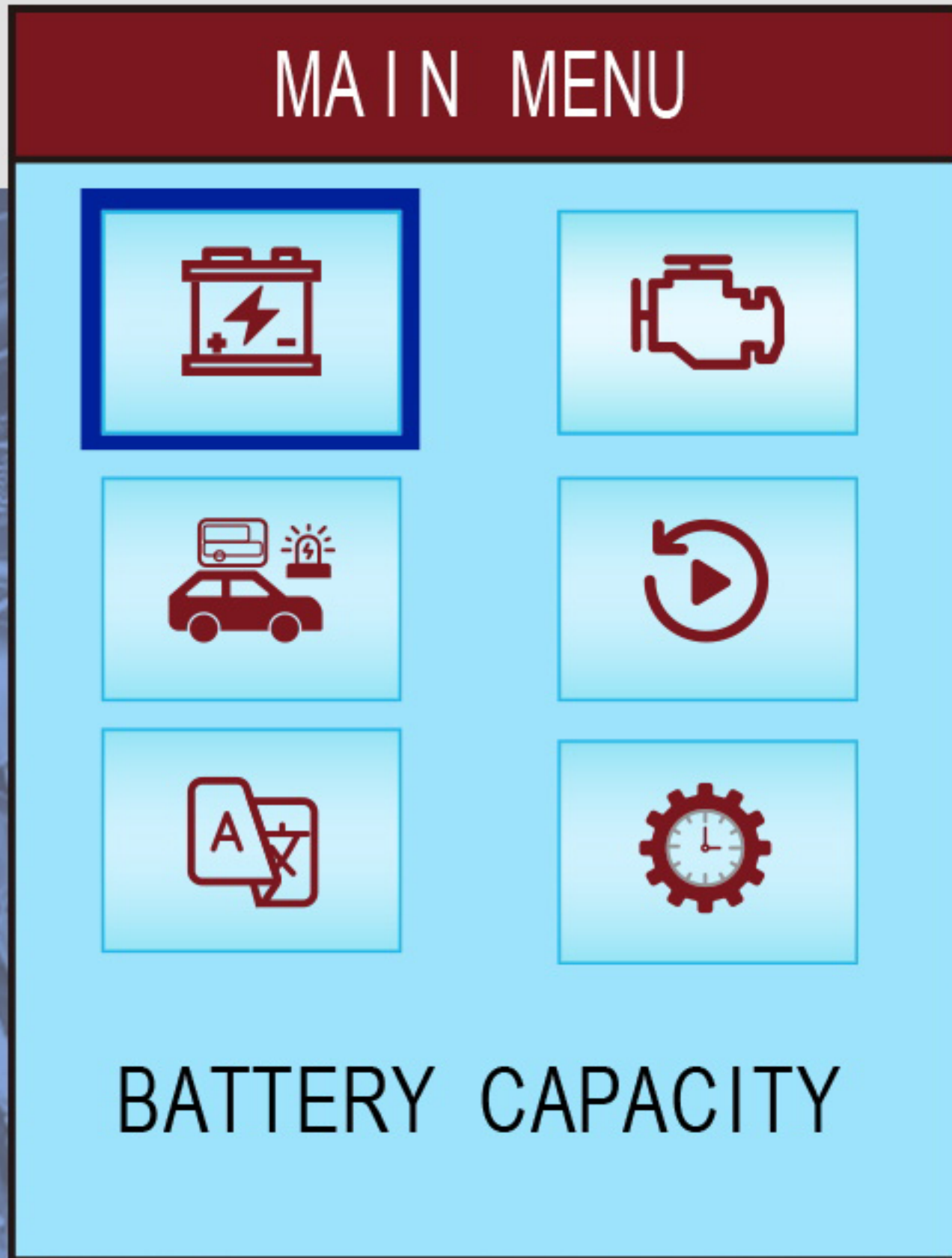


EFB



For 12V or 24V Batteries

3.2" LARGE COLOR LCD SCREEN

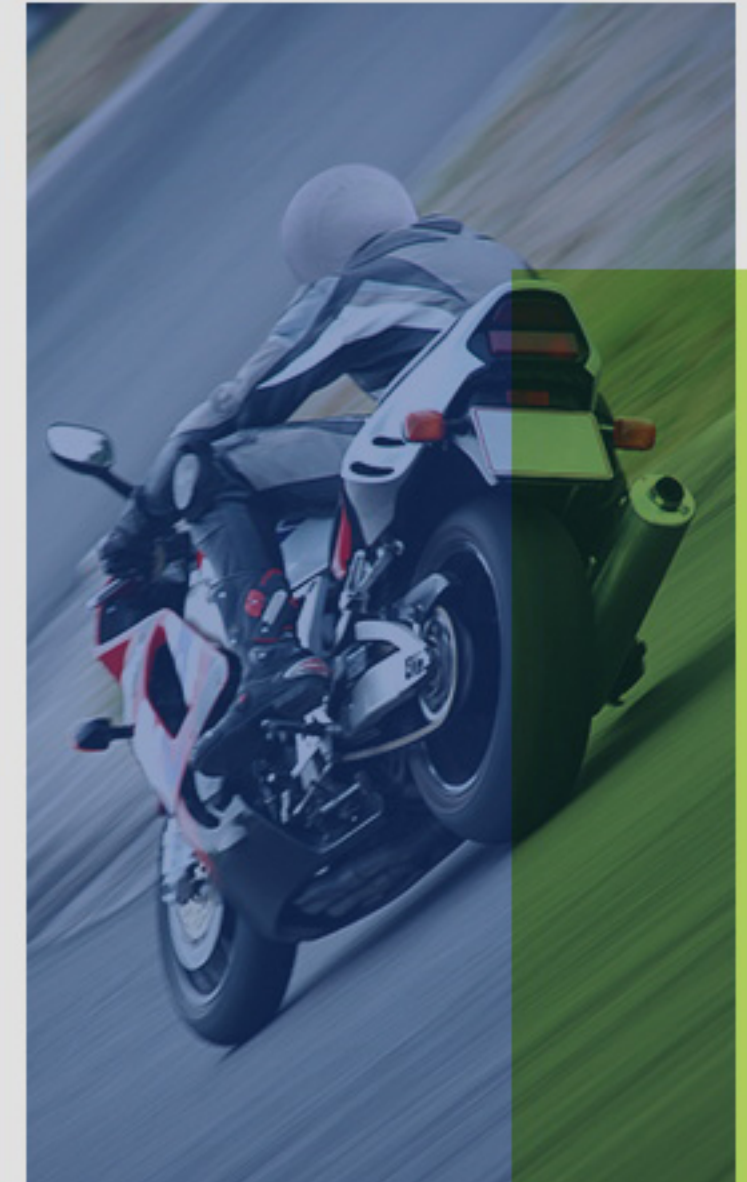


3.2 Inch

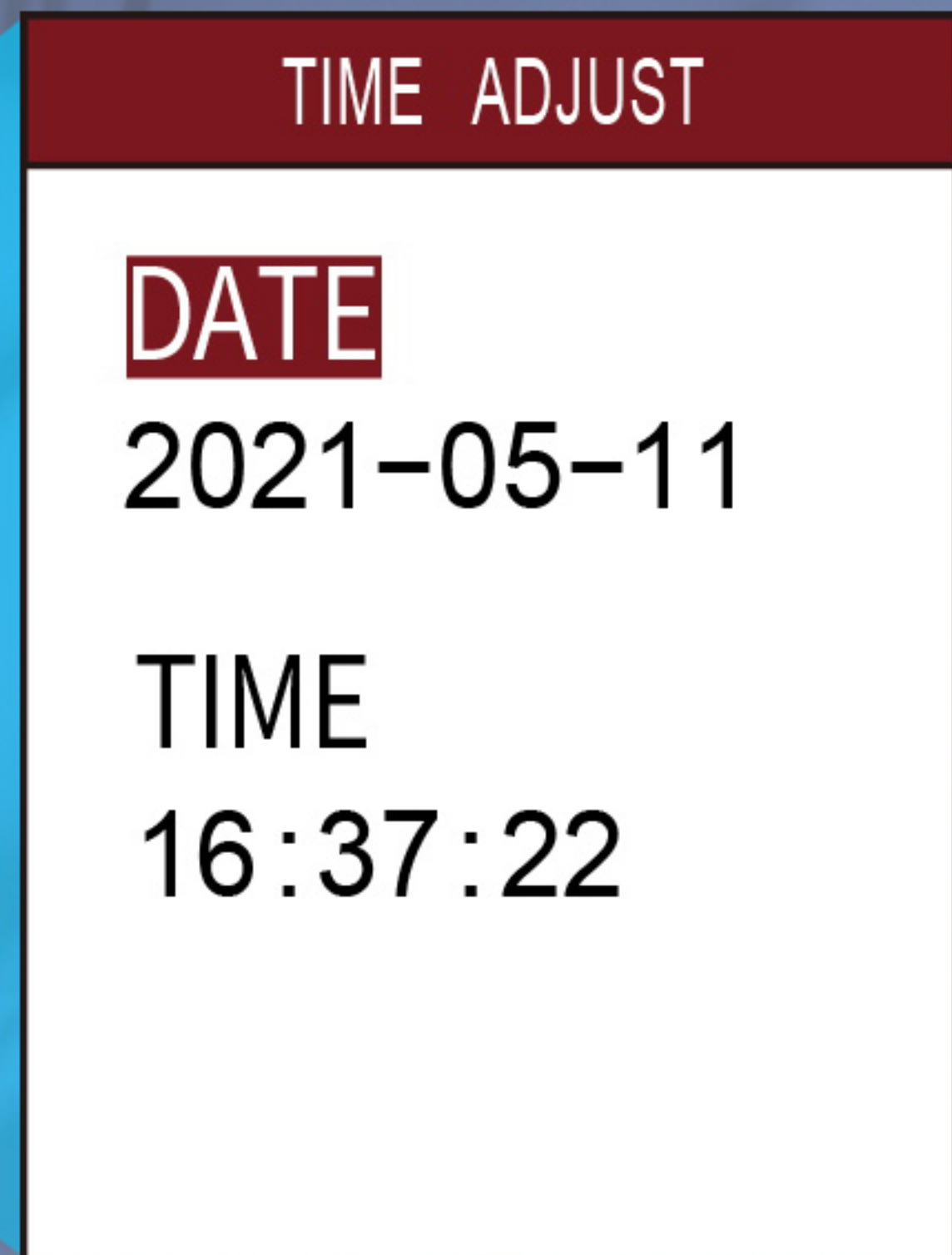


WIDE RANGE OF APPLICATIONS

For testing 12V & 24V vehicles batteries, including multi gasoline or diesel types, i.e. cars, pickups, off-road vehicles, ATVs, motorcycles, trucks and boats.



TIME DISPLAY



MULTI-LANGUAGE OPTIONS



English



Russian



German



French



Italian



Spanish



Portuguese



Hungarian



Polish



Slovak



Czech



Chinese



Dutch



Swedish



Japanese



BATTERY CAPACITY TEST

This test is used to determine the cranking capacity and status of the battery by testing the voltage/internal resistance.

SOH	RESULT	NOTE
>80%	GOOD	GOOD TO USE
60%~80%	NORMAL	GOOD TO USE
45%~60%	CAUTION	KEEP CAUTIOUS
<45%	REPLACE	REPLACE IT IMMEDIATELY

BATTERY CAPACITY	
Healthy:	95%
MEASURE :	510 CCA
Charge :	91%
VOLTAGE :	12.11 V
BATTERY Ω :	5.27 Ω
RATED :	560 CCA
Temperature :	29.6 $^{\circ}$ C
GREAT	



CRANKING TEST

By testing the cranking status, the cranking voltage and time can be obtained.



VOLTAGE	CARNKING ABILITY	ACTION TO BATTERY
>10.7V	GOOD	NO ACTION
10.2~10.7V	NORMAL	KEEP CAUTIOUS
9.6~10.2V	BAD	REPLACE IT SOON
<9.6V	VERY BAD	REPLACE IT IMMEDIATELY

CRANKING TEST

TIME : 3628 ms
CRANKING V : 12.53 V

CRANKING GOOD

Reading a voltage above 9.6V (for a 24V system, reading a voltage above 16V) indicates good cranking.

A reading below 9.6V (for a 24V system, a reading below 16V) indicates abnormal cranking.

CHARGE SYSTEM TEST

To diagnose the charging system state by testing ripple voltage, load voltage and no-load voltage.

Reference Table for Charge System (12V system)

ACTION	VOLTAGE	ENGINE PERFORMANCE
All Electric System Off (Step the Accelerator)	>13.5V	NORMAL
	13.2~13.5V	GENERAL
	13.0~13.2V	KEEP CAUTIOUS
	<13V	INSPECTION IMMEDIATELY
All Electric System On (Step the Accelerator)	13.4~14.8V	NORMAL
	13.2~13.4V	GENERAL
	<13.2V	INSPECTION IMMEDIATELY

For reference only. Bad battery will affect the test results.

CHARGE SYSTEM

RIPPLE : 136 mV
LOADED: 14.11 V
UNLOADED: 14.12 V

CHARGING GOOD



DATA REVIEW

The last data for each test is automatically stored for review.



BATTERY STANDARD SPECIFICATION

Measure Standard

CCA: Cold Cranking Amps

BCI: Battery Council International

CA: Cranking Amps

MCA: Marine Cranking Amps

JIS: Japan Industrial Standard

DIN: German Auto Industry Committee

IEC: Internal Electrical Technical Commission

EN: European Automobile Industry Association

SAE: Society of Automotive Engineers

GB: China National Standard

Test Range

100~2000

100~2000

100~2000

100~2000

100~2000

100~1400

100~1400

100~2000

100~2000

100~1400

DIMENSIONS & COMPONENTS



COM Connecting Line

LCD Screen

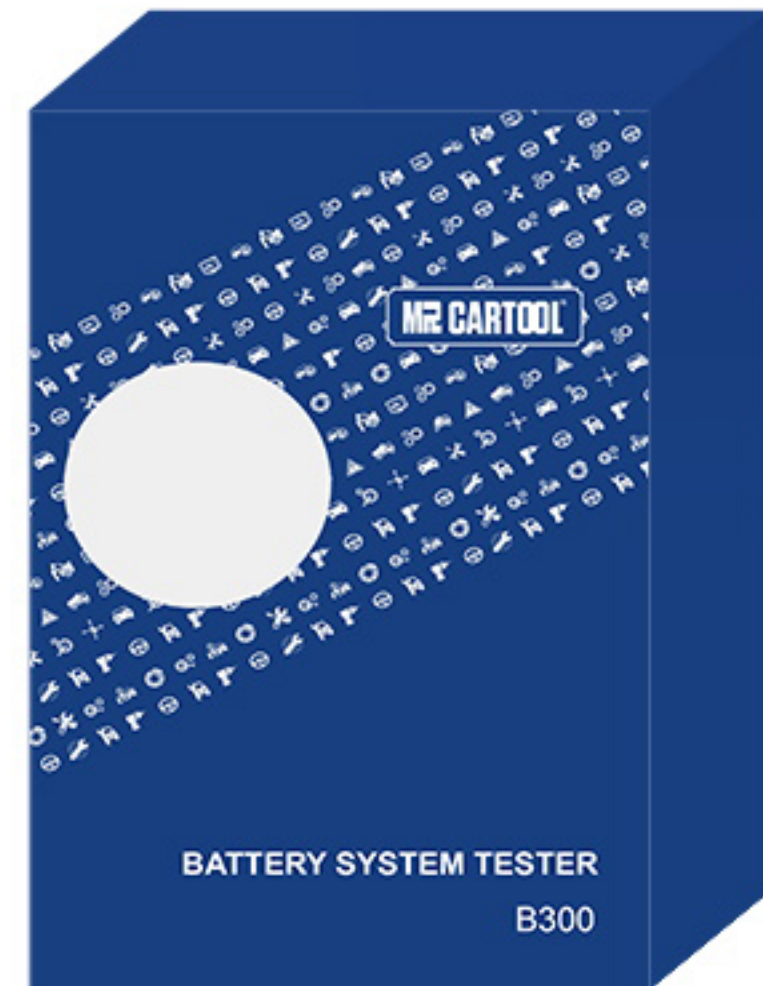
Function Button

Clamps

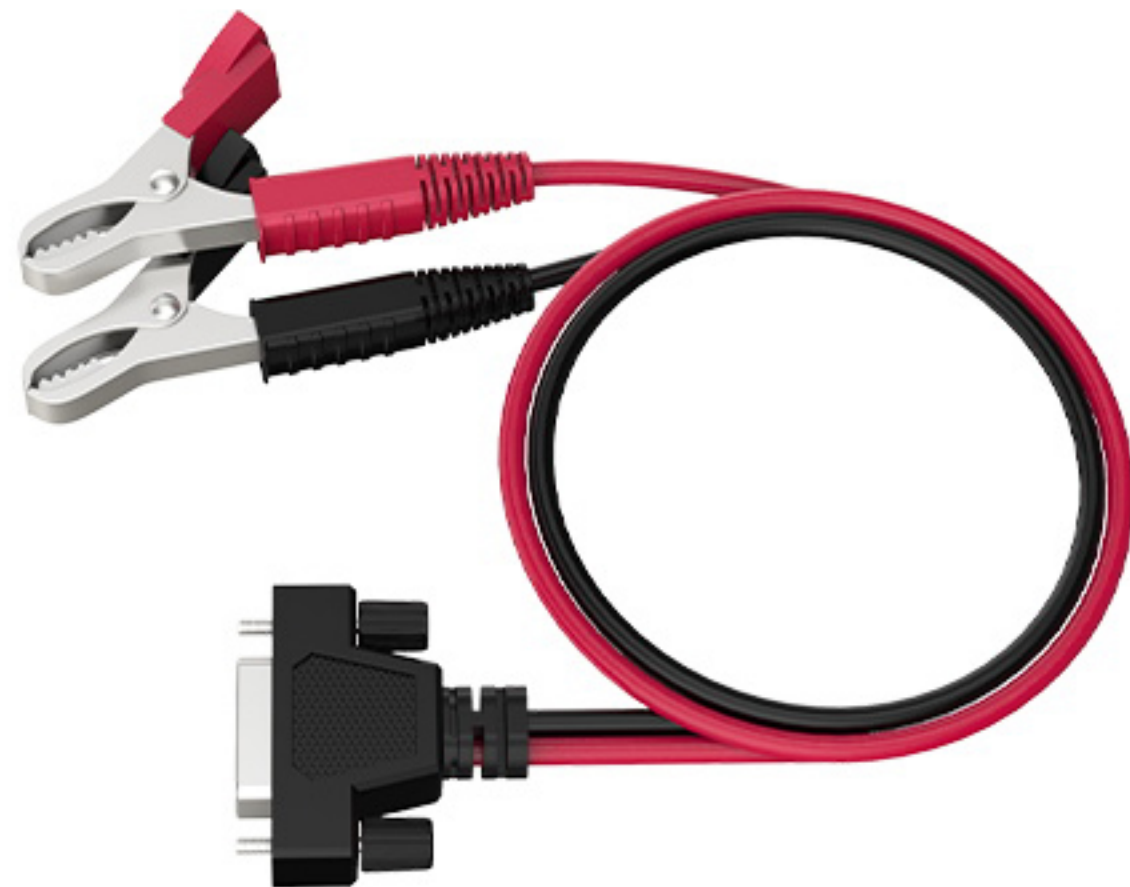




Main Unit



Package



COM Connecting Line & Clamps



User Manual