Mrcartool®

Car Hud Dual Mode GPS & OBD II

User Manual

M96

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▶ Display Interface

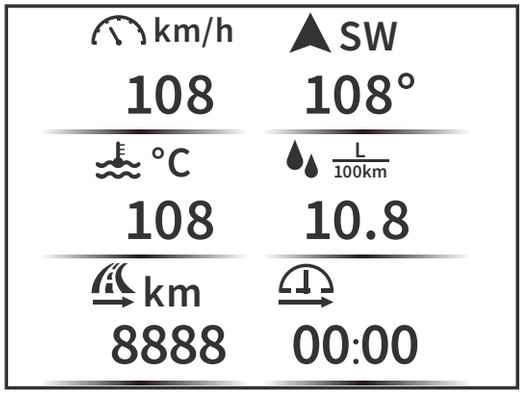
1. Types of interfaces

The M96 offers eight types of display Interfaces:

1.1 OBD Hexagonal Grid

- This interface displays six sets of data, all of which can be freely switched by the user.

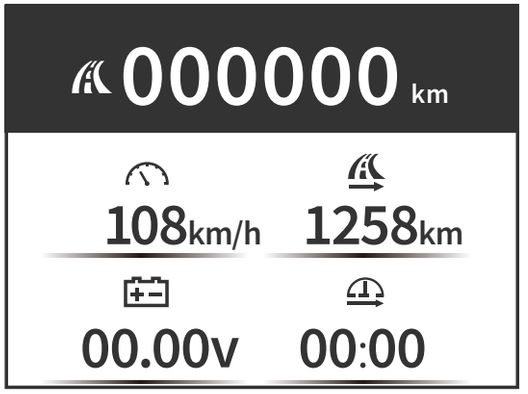
  * The vehicle speed displayed on this screen is obtained from OBD.



1.2 OBD Pentagonal Grid

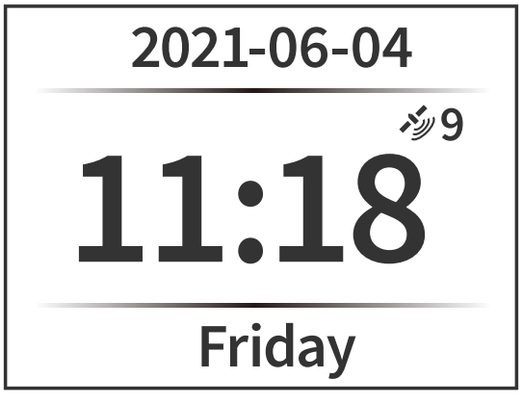
- This screen displays five items, and the user can switch the first displayed item.

  * The vehicle speed displayed on this screen is obtained from OBD.



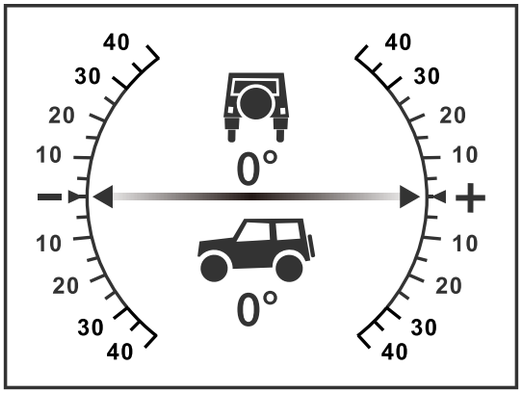
1.3 Clock

- Clock Displays the date, time, and day of the week.



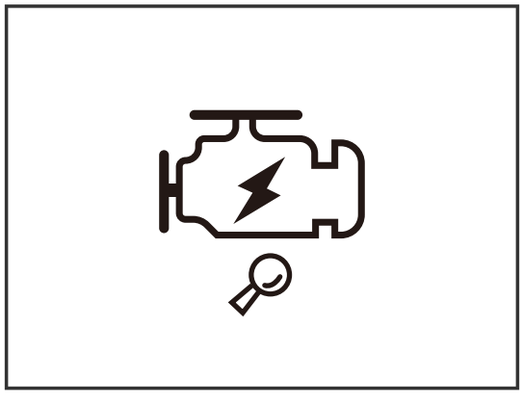
1.4 Level Gauge

- The left dial indicates the front–to–back pitch angle.
- The right dial indicates the left–to–right tilt angle.



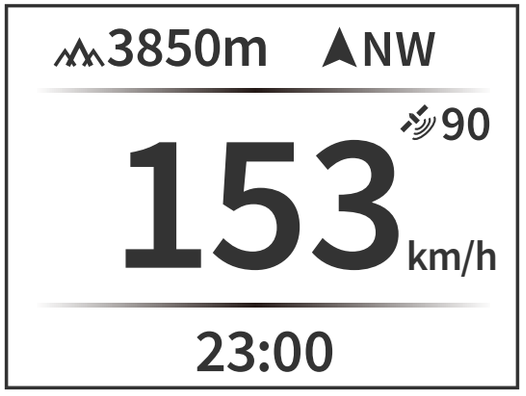
1.5 Fault Codes

- This screen automatically scans for fault codes and displays.



1.6 GPS Speed

- Displays altitude, travel direction, vehicle speed, and time.
- The vehicle speed displayed on this screen is obtained from GPS.



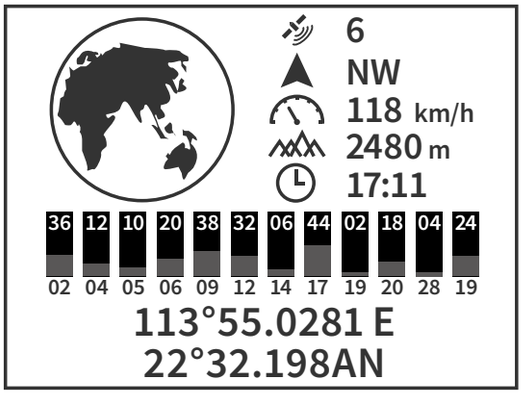
1.7 GPS Pentagonal Grid

- This interface displays 5 items of information.
- The vehicle speed displayed on this screen is obtained from GPS.



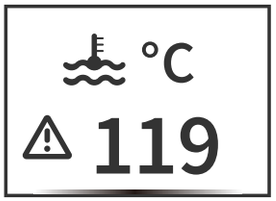
1.8 Satellite Signal

- Displays the following information:
  1. Number of visible satellites
  2. Travel direction
  3. GPS speed
  4. Altitude
  5. UTC time
  6. Satellite signal strength
  7. Longitude and latitude.



2. Speed and coolant temperature alarms

- A warning icon will be displayed in front of the value, and an audible alarm will sound (if the sound setting is set to ON).



NOTE:⚠

There are two speeds, OBD speed and GPS speed, and both have overspeed alarms, but they are independent of each other and not related.

3. Level gauge

- The left dial displays the pitch angle, with a positive value for upward tilt and a negative value for downward tilt.

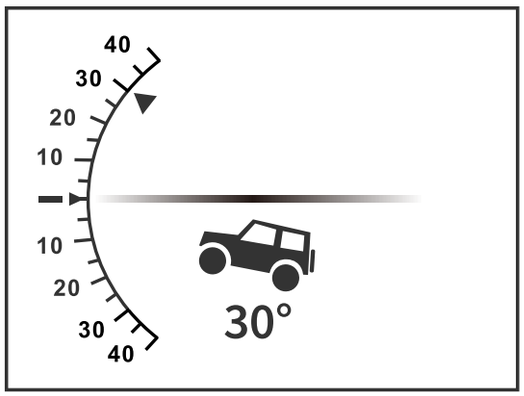
The corresponding status is indicated by the icon of a car:

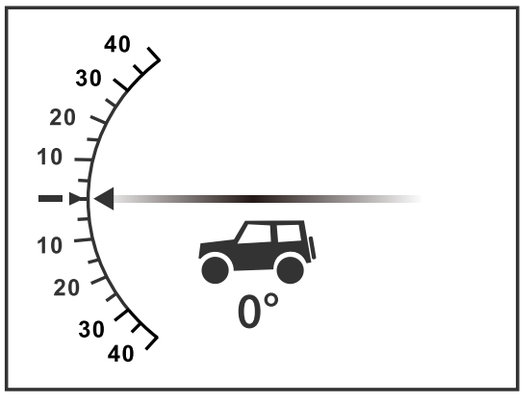
When the pitch angle is within ±3°, the car icon is displayed as horizontally balanced.

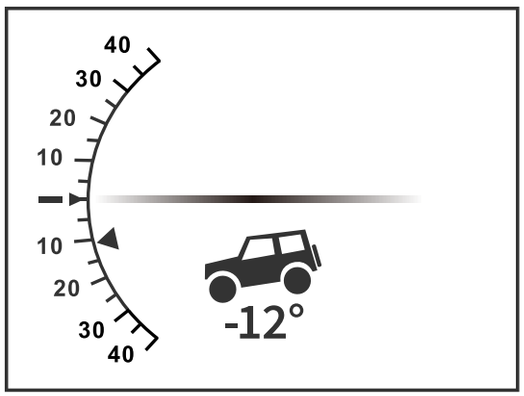
When the pitch angle is above 3°, the car icon is displayed with the

front facing upward.

When the pitch angle is below –3°, the car icon is displayed with the front facing downward.







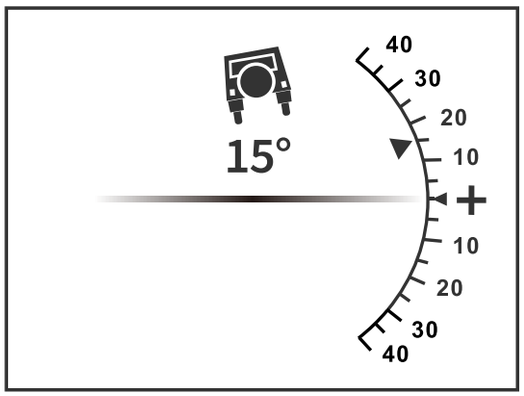
- The right dial displays the roll angle, with a positive value for left tilt and a negative value for right tilt.

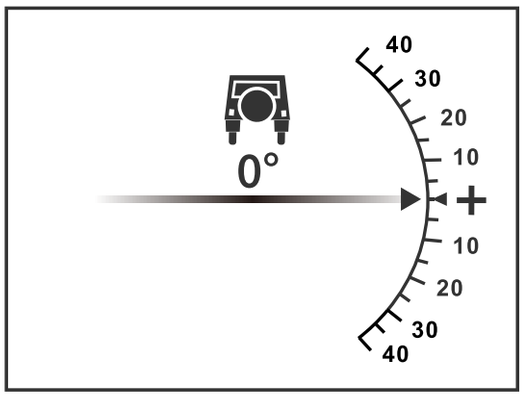
The corresponding status is indicated by the icon of a car:

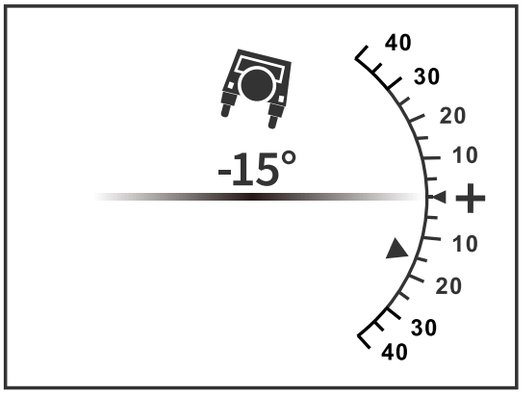
When the roll angle is within ±3°, the car icon is displayed as horizontally balanced.

When the roll angle is above 3°, the car icon is displayed with a left tilt.

When the roll angle is below –3°, the car icon is displayed with a right tilt.



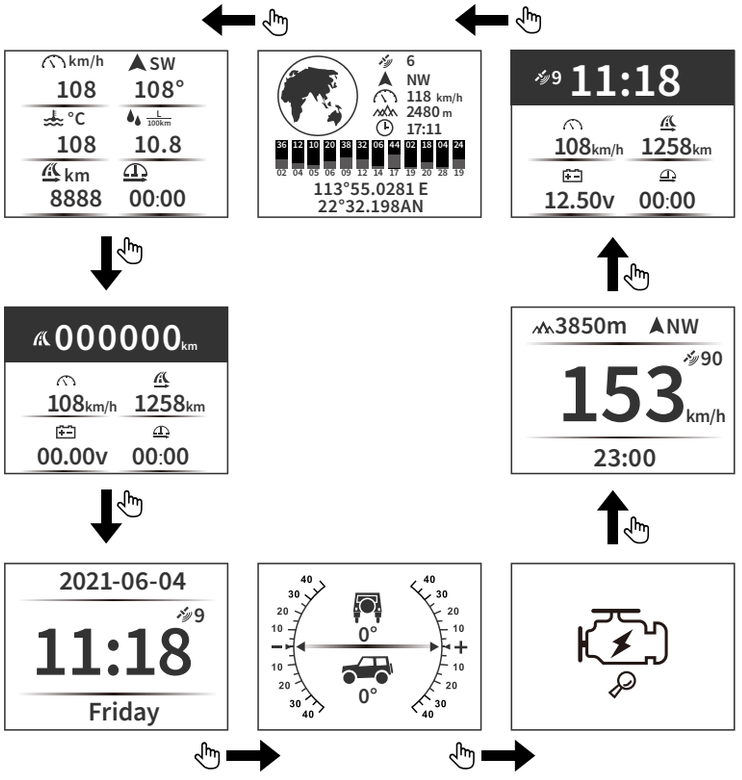




▶ Display Screen and Operation

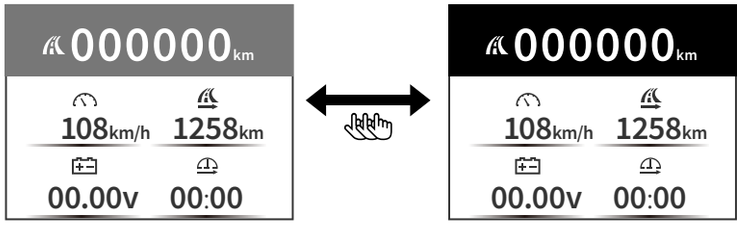
1. Screen switching

- Press the button to switch interfaces:



2. Color switching

- All the above screens have two color schemes: red and blue.
- Triple–click the button to switch colors:



3. Switching display items and units

- For the OBD–6 interface and OBD–5 interface , these two interfaces allow the switching of display items.

Double–click the button to enter the setting mode. The icon will flash, indicating the setting process:

Press the button to switch display items.

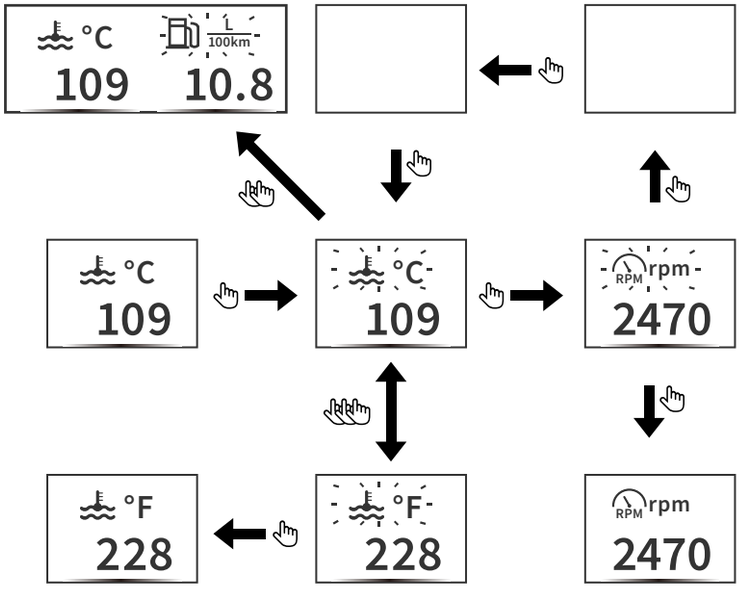
Double–click the button to switch display areas.

Triple–click the button to switch between metric and imperial units (speed, temperature, pressure, mileage, altitude).

Long–press the button to confirm

and exit.

If there is no operation for 10 seconds, it will automatically exit the setting mode.



- For the GPS Speed interface and GPS-5 interface.

Double-click the button to enter the setting mode. The icon will flash.

NOTE:⚠

Note that it is not about changing the display items but switching the units!

During the setting process:

Single-click and triple-click have the same function, which is to switch units.

Long-press the button to confirm and exit.

If there is no operation for 10 seconds, it will automatically exit the setting mode.



- Fault Codes Interface

Double-click the button to initiate a re-scan of trouble codes.

- Clock Interface

Double-click the button to toggle the date display format:



- Satellite Signal Interface

Double-click the button to toggle the metric and imperial units for “Speed” and ”Altitude”.

- Level Gauge Interface

Long-press the button to perform calibration.

4. Others

- During startup, if the OBD connection cannot be connected, the screen will switch to GPS mode.
- In the OBD screen, certain items displaying 0 do not necessarily mean that the actual values are 0; it could be due to the vehicle's lack of support.
- In the GPS screen, certain items displaying 0 do not necessarily mean that the actual values are 0; it could be due to the absence of a signal.
- When there is no OBD connection and the GPS speed is less than 3 km/h, the device will extend the "standby delay" time by an additional 5 minutes before shutting down.

▶ Menu

1. Accessing the Menu

- Except for the Level Gauge screen, long-press the button on any other screen to access the menu.

LANGUAGE	ENGLISH
BRIGHTNESS	50%
SOUND	ON
SPEED ALERT	120km/h
COOLANT ALERT	105℃
TIME PRIOR SLEEP	00:00:30
SPEED CALIB	105%
CONSP. CALIB.	100%
DATE & TIME	>
ODOMETER	888888km
RESET	NO

2. Menu Operations

- The menu will automatically exit if there is no operation for 10 seconds.
- Long-press the button to exit the current menu.
- Single-click the button to switch the selected item.

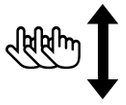
LANGUAGE	ENGLISH
BRIGHTNESS	5 0 %
SOUND	O N
SPEED ALERT	1 2 0 k m / h
COOLANT ALERT	1 0 5 ℃
TIME PRIOR SLEEP	0 0 : 0 0 : 3 0
SPEED CALIB	1 0 5 %
CONSP. CALIB.	1 0 0 %
DATE & TIME	>
ODOMETER	8 8 8 8 8 8 k m
RESET	N O



LANGUAGE	ENGLISH
BRIGHTNESS	**5 0 %**
SOUND	O N
SPEED ALERT	1 2 0 k m / h
COOLANT ALERT	1 0 5 ℃
TIME PRIOR SLEEP	0 0 : 0 0 : 3 0
SPEED CALIB	1 0 5 %
CONSP. CALIB.	1 0 0 %
DATE & TIME	>
ODOMETER	8 8 8 8 8 8 k m
RESET	N O

- Three clicks on the button will toggle the display units between metric and imperial in the menu (for speed, temperature, and mileage).

SPEED ALERT	1 2 0 k m / h
COOLANT ALERT	1 0 5 ℃
ODOMETER	8 8 8 8 8 8 k m



SPEED ALERT	7 4 M P H
COOLANT ALERT	2 2 1 ℉
ODOMETER	5 5 2 3 2 9 m i

- Double–click the button to enter the settings menu.
  (“Date and Time” will go to the next level menu, and then double– click the button to enter the settings.)

During the setting process:

① In the setting screen without a cursor

Single–click the button to select the setting value.



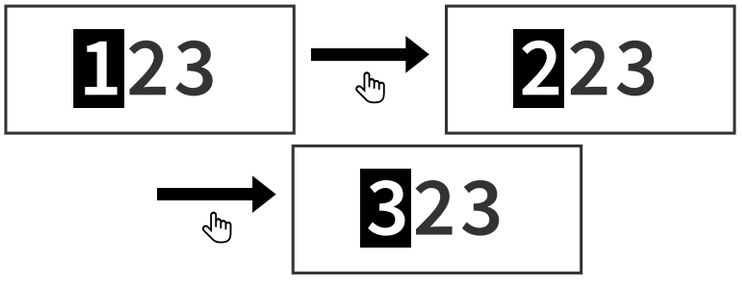
Long–press the button to confirm and exit the settings.

Triple–click the button to cancel and exit the settings.

② In the setting screen with a cursor



Single–click the button to change the value of the cursor.



Double–click the button to switch the cursor to a different setting.



Long–press the button to confirm and exit the settings.

If the set value is outside the allowed range, it will be invalid.

Triple–click the button to cancel and exit the settings.

▶ Settings and Data

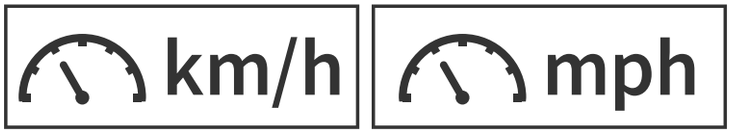
1. Settings

- **System Language:**
  Simplified Chinese (default), Traditional Chinese, English
- **Brightness (%):**
  Minimum Value: 10
  Default Value: 50
  Maximum Value: 99
- **Sound:**
  ON(default), OFF
- **Over speed Alarm (km/h):**
  Minimum Value: 20
  Default Value: 120
  Maximum Value: 180
- **Coolant Temperature Alarm (℃):**
  Minimum Value: 90
  Default Value: 105
  Maximum Value: 120
- **Standby Delay (hours:minutes: seconds):**
  Minimum Value: 00:00:05
  Default Value: 00:00:30
  Maximum Value: 00:20:00

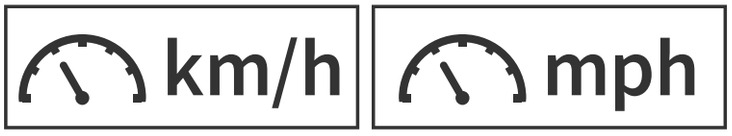
- Speed Error Calibration (%)
  Note: Both OBD speed and GPS speed are calibrated:
  Minimum Value: 50
  Default Value: 105
  Maximum Value: 200
- Fuel Consumption Calibration (%):
  Minimum Value: 10
  Default Value: 100
  Maximum Value: 900
- Total Mileage (km):
  Minimum Value: 0
  Default Value: 0
  Maximum Value: 999999

2. OBD–6 Item

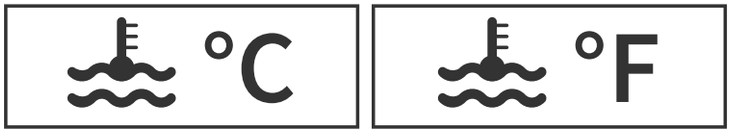
- Vehicle Speed



- Average Vehicle Speed



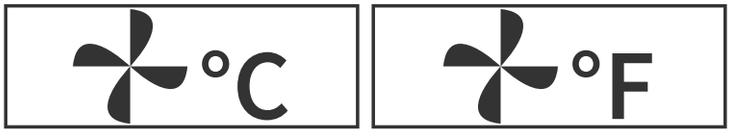
- Coolant Temperature



- Engine RPM



- Intake Temperature



- Intake Pressure



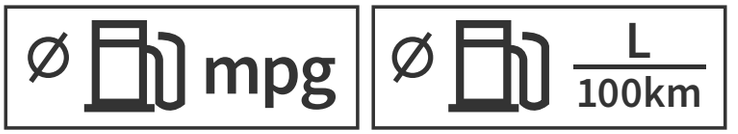
- Air Flow Rate



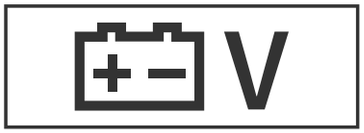
- Instant Fuel Consumption



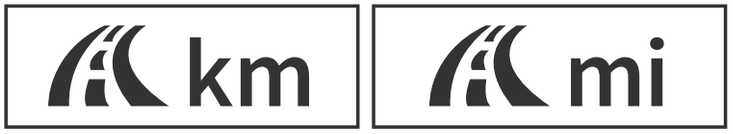
- Average Fuel Consumption



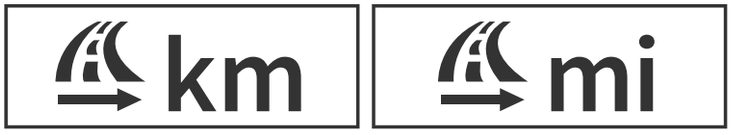
- Battery Voltage



- Total Mileage



- Current Trip Mileage



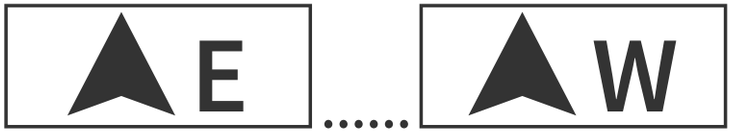
- Driving Time



- Altitude



- Driving Direction



2. OBD–5 Item

- Total Mileage



- Clock



- Driving Direction



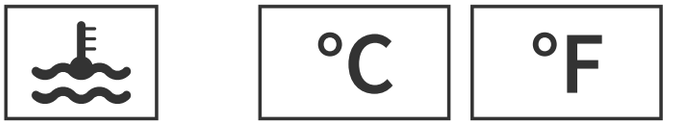
- Altitude



- Engine RPM



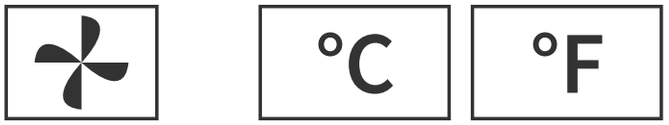
- Coolant Temperature



- Intake Pressure



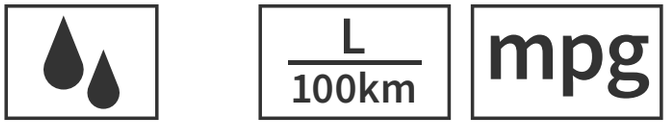
- Intake Temperature



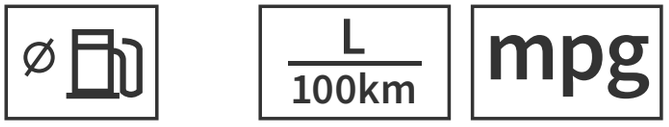
- Air Flow Rate



- Instant Fuel Consumption



- Average Fuel Consumption



▶ Warranty Service

There are 2 years' warranty for MRCAR-TOOL product main unit and 1 year warranty for the accessories since the day the customers have received the product parcel.

▶ Warranty Access

- Repair or replace the equipment will be done according to the specific fault conditions.
- We guarantee that all replacement parts, accessories or equipment are brand new.
- When there is a product breakdown that can not be solved within 90 days, customer should provide video and pictures as proof, we will bear the freight cost and provide customer the accessories in need to replace. After receiving the product for more than 90 days, the customer shall bear the freight cost, we will provide the accessory for free to replace.

▶ Not Covered Warranty

- Items that come through the unofficial MRCARTOOL purchase channel.
- Product failure is caused by incorrect use of the product, use for other wrong purpose or human factors.

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