



CARAPP V100

Instruction Manual

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CARAPP V100



CARAPP V100 can be used to read fault codes, clear fault codes, display real-time information, test fuel consumption, analyze trip for OBDII supported car, and able to alarm unsafe driving behavior through voice prompt by Bluetooth and vehicle terminal communication in Android operating system mobile.



=> Main Features:

With Bluetooth wireless communication technology and the operation experiences of phone touch in software, technology and usage is combined perfect in this product . The virtual instrument interface meets the owners desire for learning about the car; sensor parameters is simple to use while car is moving. The fuel consumption test, allow owners to drive more economical and environmental. Trip analysis makes driving much funny; voice prompt of overspeed or fatigue driving make your driving safer.



=> HOW TO USE

After installing the software on the phone, you can click the CARAPP icon to enter the main menu, and slide the menu by your finger to select the function modules. If this is the first time, you can click on the "Setting" to enter the set-up menu.





setting

Bluetooth enabled
Bluetooth feature turned on? YES

Match
The phone with OBDAPP
Match ok? YES

Connected to the ECU
The phone and OBDAPP to
establish a connection it? YES

Speed alarm
Alarm when the Speed over the
following values: 120 km/h

Water temperature alarm
When the water temperature
over value alarm: 110 ° C

Driver fatigue alarm
Alarm when driving longer
than the following values:

1. Setting

① Bluetooth Enabled

Reminder : Bluetooth feature turned on?
It shows "YES" when the bluetooth has turned on, if not, it shows "No".

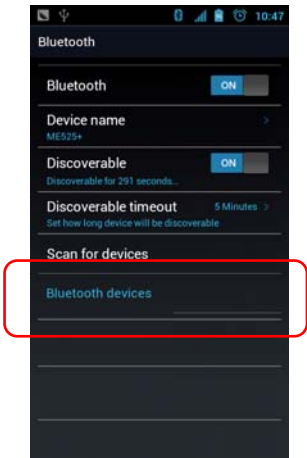
② Match

Reminder : the phone OBDAPP Match ok?
Click the right key to enter the match interface.
Choose the matched hardware encoding for Bluetooth pairing.
It shows "YES" when the bluetooth has been paired, if not, it shows "No".

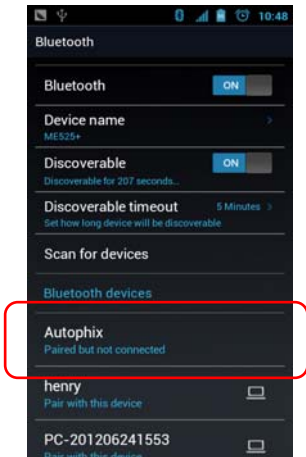
Note: when using this product, the onboard computer to pair.



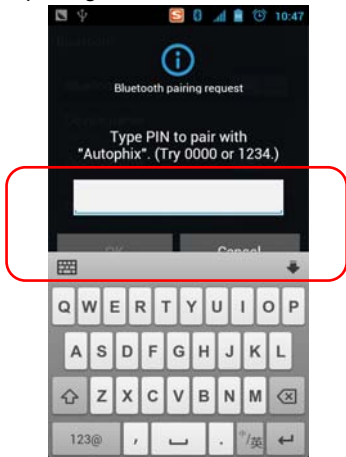
Click 'Bluetooth devices' search for Bluetooth devices.



Will be shown paired Bluetooth devices.



Click a Bluetooth device, enter the Bluetooth pairing request page. Enter the password, and click to confirm the pairing.



③ **Connected to the ECU**

Reminder : The phone and OBDAPP to establish a connection it?

"Query Bluetooth connection "window will pop up after clicking on the right key

Choose the matched hardware encoding for Bluetooth pairing.

It shows "YES" when the bluetooth has been paired, if not, it shows "No".

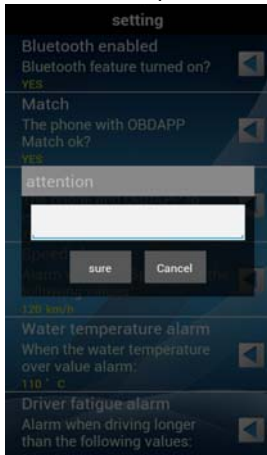
④ **Speed Alarm**

Reminder : Alarm when the Speed over the following values:

"Reminder" window will pop up after clicking on the right key.

You can input speed alarm value, and then click "OK".

For example, after you entered "120", it will be overspeed alarm voice prompt when the speed is over 120 kilometers per hour.



⑤ **Water Temperature Alarm**

Reminder : when the Water Temperature over value alarm:

"Reminder" window will pop up after clicking on the right key.

You can input water temperature alarm value, and then click "OK".

For example, after you entered "110", it will be water temperature alarm voice prompt when the speed is over 110°C.

⑥ **Driver Fatigue Alarm**

Reminder : alarm when driving longer than the following values:

"Reminder" window will pop up after clicking on the right key.

You can input Fatigue driving alarm value, and

then click "OK".

For example, after you entered "3", it will be fatigue

driving alarm voice prompt when the speed time is over 3 hours.

⑦ Alarm Settings

Reminder : Turn on or turn off the alarm: click the "√ " to turn on, and click the choice box again to turn off in selection choice box on the right side.



⑧ **Engine displacement**

Reminder : Engine displacement

"Reminder" window will pop up after clicking on the right key.

You can input engine capacity value, and then click "OK".

For example, you entered "1.6", so the engine capacity value is 1.6.

⑨ **Fuel Price**

Reminder : Set the fuel price

"Reminder" window will pop up after clicking on the right key.

You can input fuel price value, and then click "OK".

For example, you entered "8.5", so the unit of account of engine capacity is 8.5.

⑩ Currency

Reminder : Select the currency:

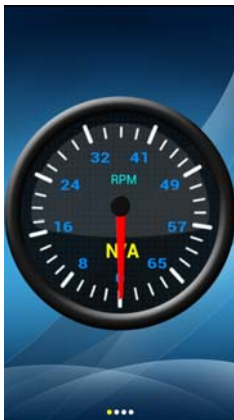
After clicking the unit of currency button on the right side, it will pop up the currency selection window, so that you can select the monetary unit.



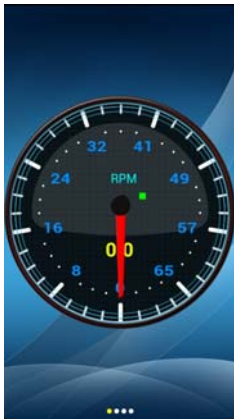
11 Panel style

Reminder : Setting panel style:

Style Category : Black



Style Category : Red



Click to select the real-time information on the instrument display style

2. Real-Time Information

Clicking the "Real-Time Information" module enter into the interface, you can slide the interface to select the single dial, two dials, six dials or six square dials to show the real-time vehicle information.

If you click on the instrument panel more than 2 seconds, it will enter into the "Data stream selection" page.





The fingers continuous click on the instrument panel enters the stream selection page for more than 2 seconds.



Do support the this data stream is showed in green font, and do not support the data stream is showed in white font. The instrument will display the real-time information of the data stream when you select data stream items which you want.

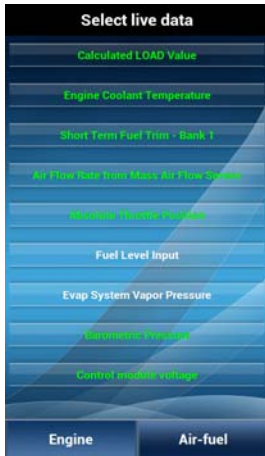
For example, select the 'Short Term Fuel Trim–Bank 1'



The Stream Selection

Engine:

- Calculated LOAD Value
- Engine coolant Temperature
- Short Term Fuel Trim-Bank 1
- Air Flow Rate from Mass Air Flow Sensor
- Absolute Throttle Position
- Fuel Level Input
- Evap System Vapor Pressure
- Barometric Pressure
- Control module voltage



Air-fuel:

Fuel Rail Pressure(gauge)

Intake Manifold Absolute Pressure

Engine RPM

Vehicle Speed Sensor

Ignition Timing Advance for #1 Cylinder

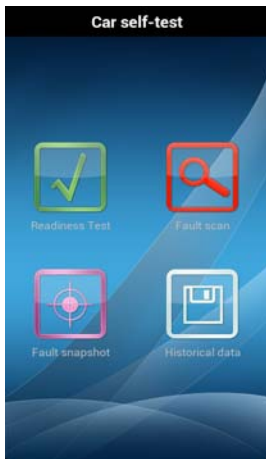
Intake Air Temperature



3. Vehicle in self-test

Clicking the "vehicle in self-test" module to enter into the page.





① Readiness Test

Click "Readiness Test" button to enter the page.



The green reminder: finished test

The red reminder: unfinished test

The gray reminder: the vehicle does not support the test

② **Fault Scan**

Clicking the "Fault Scan" button to get into the page.



Yellow icon shows the determined fault, and the red one shows the current failure.



Clicking "Remove" button to remove the fault code.

③ Failure Snapshot

Clicking the "Fault Snapshot" button to enter the page. And then it shows the momentary information of vehicle you can hold current data by clicking "Save" button.



Fault Snapshot

Car Names:null

Fuel:null

VIN : null

Time:2012-10-30 10:00:55

Fault code:

P0108 : Manifold Absolute Pressure/
Barometric Pressure Circuit High

P0123 : Throttle/Pedal Position
Sensor/Switch A Circuit High

P0223 : Throttle/Pedal Position
Sensor/Switch B Circuit High

P2649 : A Rocker Arm Actuator
Control Circuit High Bank 1

P2122 : Throttle/Pedal Position
Sensor/Switch D Circuit Low

P2127 : Throttle/Pedal Position
Sensor/Switch E Circuit Low

U0155 : Lost Communication With
Instrument Panel Cluster (IPC)

Control Module Saved Successfully

U0122 : Lost Communication With
Vehicle Dynamics Control Module

Archive

④ **Historical Data**

Clicking the "Historical Data" button to enter the page. It shows all the data list which you saved before.

You can click to select a data item list to enter into the "Diagnostic Report" page, and it will display the historical vehicle condition information.

Historical data

Date:2012-10-30

Time:10:02:27

Date:2012-10-30

Time:10:02:19

Date:2012-10-29

Time:16:27:16

Date:2012-10-29

Time:10:56:16

Date:2012-10-29

Time:10:53:18

Diagnostic reports

Car Names:null

Fuel:null

VIN : null

Time:2012-10-30 10:00:55

Fault code:

P0108 : Manifold Absolute Pressure/
Barometric Pressure Circuit High

P0123 : Throttle/Pedal Position

Sensor/Switch A Circuit High

P0223 : Throttle/Pedal Position

Sensor/Switch B Circuit High

P2649 : A Rocker Arm Actuator Control
Circuit High Bank 1

P2122 : Throttle/Pedal Position

Sensor/Switch D Circuit Low

P2127 : Throttle/Pedal Position

Sensor/Switch E Circuit Low

U0155 : Lost Communication With
Instrument Panel Cluster (IPC) Control
Module

U0122 : Lost Communication With
Vehicle Dynamics Control Module

P0102 : Mass or Volume Air Flow A
Circuit Low

4. Fuel Consumption Test

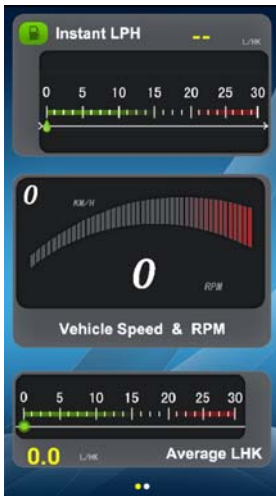
Clicking the "Fuel Consumption Test" button to enter the page.

There are two pages in the module, you can use finger to slide interface for page changing.



The functions in the first page as following:

- ① **"Momentary Fuel Consumption in litres/ 100 km "** :
calculated the momentary value of fuel consumption per 100 km.
- ② **"Vehicle Speed" :**
Displays the current speed.
- ③ **"Revolving Speed" :**
Displays the current revolving Speed.
- ④ **"Average Fuel Consumption in litres/ 100 km "** :
calculated the average value of fuel consumption per 100 km.



The functions in the second page as following:

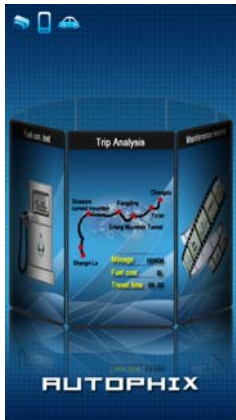
- ① **"Momentary Fuel Consumption in litres/1 hour":**
calculated the momentary value of fuel consumption per hour.
- ② **"Mileage":**
Displays the current miles.
- ③ **"Fuel Consumption":**
display the fuel consumption values
- ④ **"Average Fuel Consumption in litres/1 hour":**
calculated the average value of fuel consumption per hour.



Note: The function of calculation starts from entering the fuel consumption test page until exit the module.

5. Trip Analysis

Clicking the "Trip Analysis" module to enter the page. There are three pages in the module, you can use finger to slide interface for page changing.



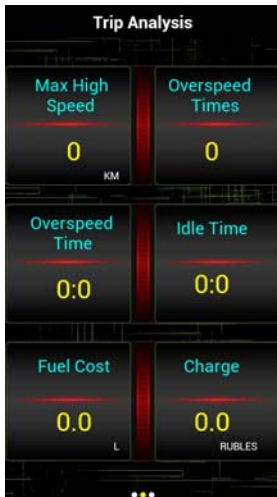
The functions in the first page as following:

- ① "**Drive Time**": Displays the time of your driving.
- ② "**Mileage**": Displays the miles of your driving.
- ③ "**Water Temperature**": Displays the current water temperature
- ④ "**Current Speed**": Display the current speed of the vehicle
- ⑤ "**Average Speed**": Calculates the average speed of the vehicle
- ⑥ "**Acceleration**": Calculates the velocity change between this second and last second.

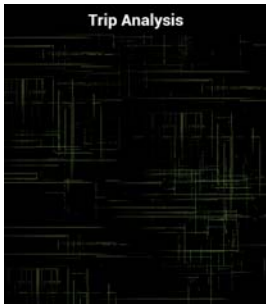


The functions in the second page as following:

- ① **"Maximum Speed"**: Displays the maximum speed in the driving process
- ② **"Overspeed Frequency"**: Displays the number of overspeed in the driving process.
- ③ **"Overspeeding Time"**: Displays the cumulative overspeed time.
- ④ **"Idle Time"**: Revolving speed is not zero, but accumulated from the zero state speed.
- ⑤ **"Fuel Consumption"**: Displays the aggregate -value of fuel consumption in your driving process.
- ⑥ **"Fuel Costs"**: Calculates the oil price according to the fuel consumption and fuel costs.



Note: The function of calculation starts from entering the Trip Analysis page until exit the module. It will remind you to choose save or not. If choose hold the data, those data will be hold in the third page of Trip Analysis.




You can check the historical trip analysis data in the "Trip Analysis" sub page.

6. Maintenance Records

Clicking the "Maintenance Records" button to enter into the page.





Add records

Review records

Mileage :

Items :

Select

Add

① Add Maintenance Records

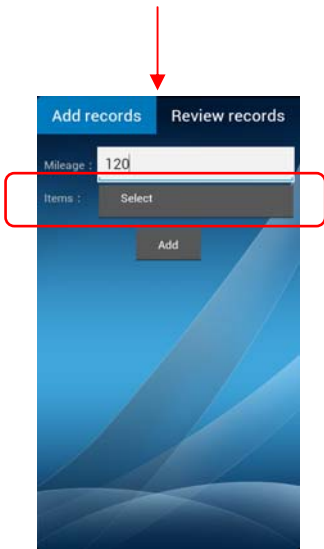
Filling in vehicle maintenance, mileage and maintenance items, then click the "Add" button to save data.

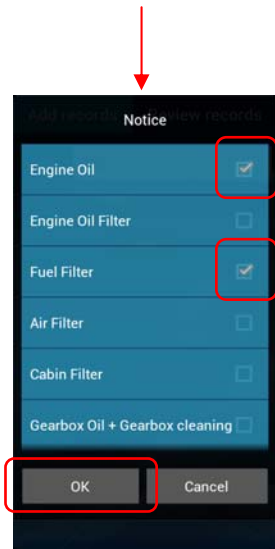
The screenshot shows a mobile application interface with two tabs: "Add records" (active) and "Review records". Below the tabs, there is a form with the following elements:

- A "Mileage" label followed by an input field containing the value "120". This input field is highlighted with a red rectangular box.
- An "Items" label followed by a dropdown menu showing the word "Select".
- An "Add" button located below the dropdown menu.

At the bottom of the screen, there is a numeric keypad with the following layout:

中文	1	2	3	%	
英文	4	5	6	*	
数字	7	8	9	#	
表情	←	↵	0	.	✕

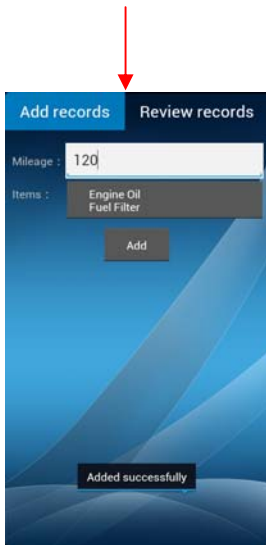




The image shows a mobile application interface with a dark blue header. The header has two tabs: 'Add records' (which is selected and highlighted in a lighter blue) and 'Review records'. Below the header, there is a form with the following elements:

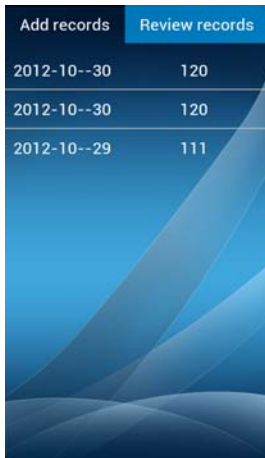
- A 'Mileage' label followed by a text input field containing the number '120'.
- An 'Items' label followed by a dropdown menu. The dropdown is open, showing two options: 'Engine Oil' and 'Fuel Filter'.
- An 'Add' button, which is a dark grey rectangle with the word 'Add' in white text. This button is enclosed in a red rectangular border.

A red arrow points downwards from the top center of the image towards the 'Add records' tab.

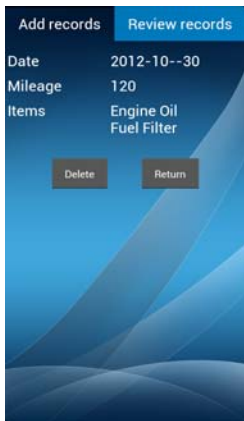


② **Check maintenance records**

Click to view the historical maintenance records.



Add records	Review records
2012-10--30	120
2012-10--30	120
2012-10--29	111



Click the “Delete” button to delete the maintenance records; Click the “Back” button to return to the previous page.

=> Specifications

- **Specifications:** 49mm X 27mm X 33mm
- **Operating voltage:** 8- 22V
- **Operating temperature:** 0° C - 80° C (32-176 F°)
- **Storage temperature:** -20° C - 70° C (-4 -158 F°)
- **Accessories:** installation CD, product packaging , manual

