

X565

AC REFRIGERANT RECYCLING AND FLUSHING MACHINE



Operation Manual

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1 Caution:

Wear the glove and eye protection glass to protect the skin and eyes from refrigerant. Don't use this device near the fire or spark. Don't expose this device into sunshine or rain. Avoid to contact with corrosive liquid and gas. Keep good ventilation.

During transportation, strong vibration or bumping may damage the piping or loose some screws. Please open the side door or back panel. Check if all the piping and wiring properly connected or not. If any screws loosen, please fix them before you run the machine. Please also check if the pump oil being at a modest level. Otherwise, please add some oil.

When receiving a new machine, please also check scale. When turn on the machine, users can see the "REF. WEIGHT", it is zero for a new machine. Put 1KG weight on top of cylinder, and see if the weight will increase 1KG or nearly 1KG. If yes, the scale is sound and good.

Follow strictly the operation instruction on the machine.

2 Technical parameter:

Type of cleaning liquid: R134a refrigerant

Voltage: AC 220V/60Hz (1PH)

Power: 1200W

Digital weight scale precision: 10gram

Tank Capacity: 10kgs

Tank maximum pressure: less than 23KG/CM2 (330psi)

Life-time of filter drier: 60 cycles of flushing

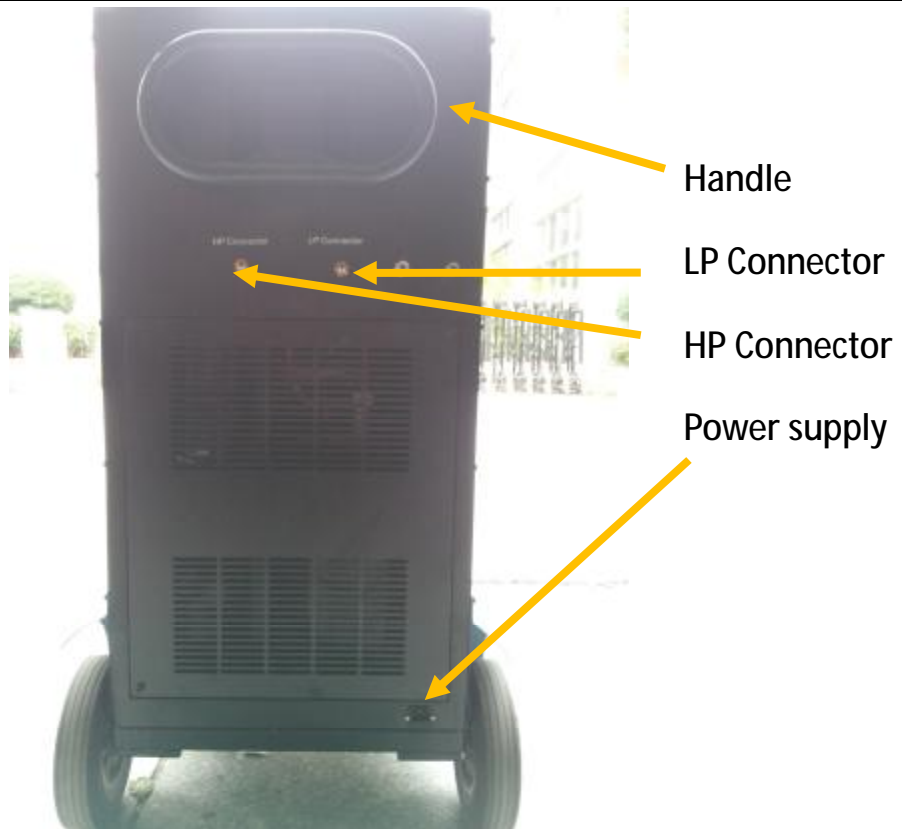
3 Function

1. Recovery
2. Vacuum
3. Charge
4. Flush the the automobile A/C system

4. Structure



Picture 1: Front View



Picture 2 Back View








Picture 3 : Side View

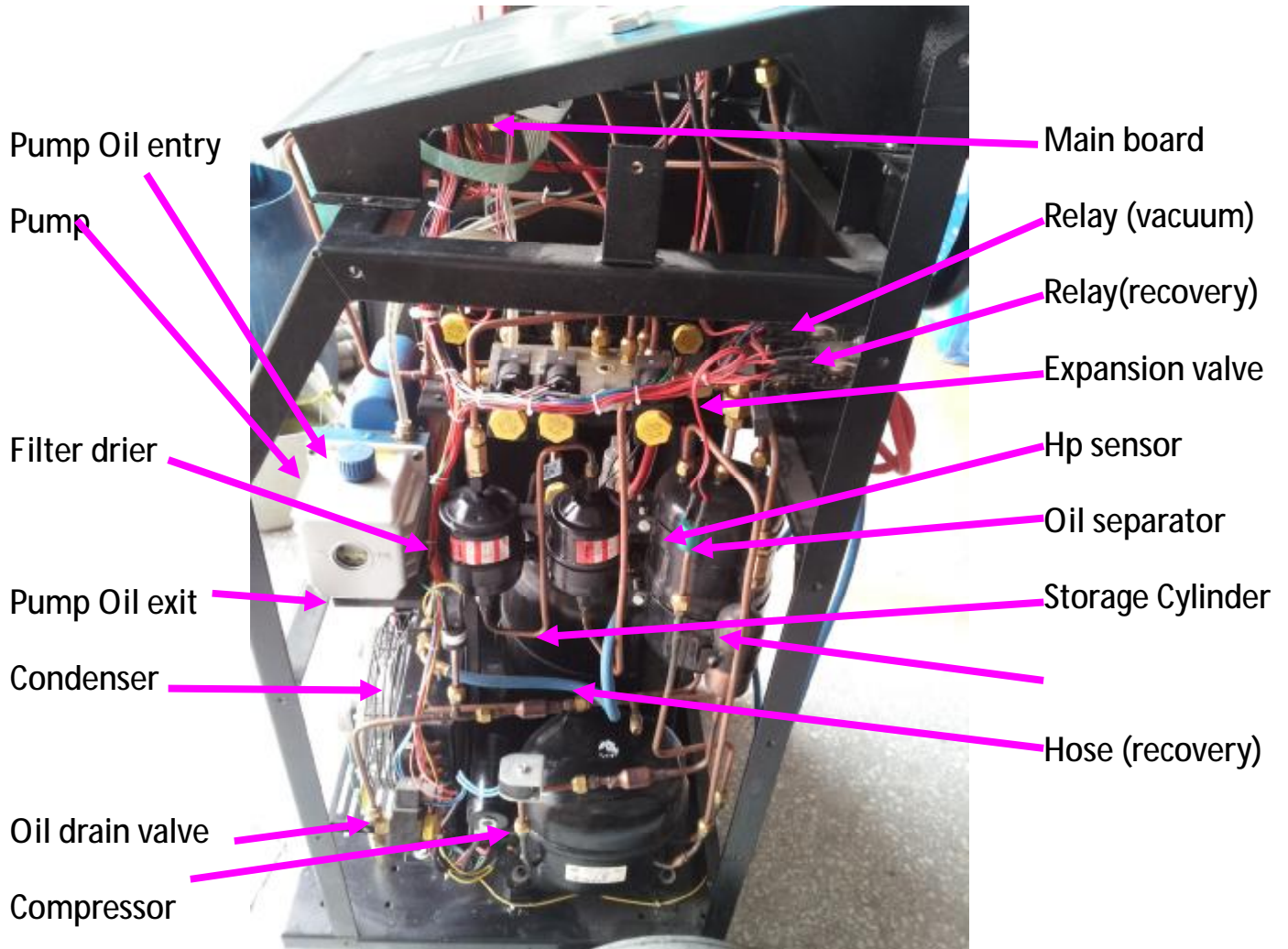
Control Panel:



Keys on Control Panel:

1		Digital keys to set the parameter
2		Cancel key
3		Selection key
4		“ON/OFF” key (“Start” or “Pause” Key)
5		Exit

Inner structure :



Inner structure

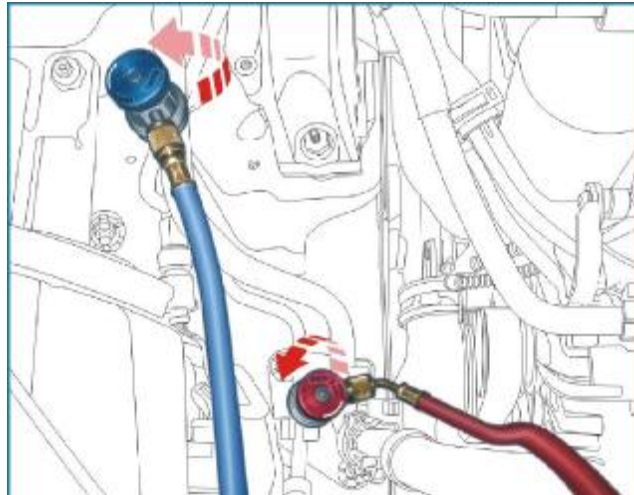
5. Basic Operation

- 1.) **Fix the red hose on machine HP connector**
- 2.) **Fix the blue hose on machine LP connector**
- 3.) **Connect red hose to car HP side, and blue hose to LP side.**
- 4.) **Make sure enough space of the waste oil bottle and enough fresh oil in fresh oil bottle.**



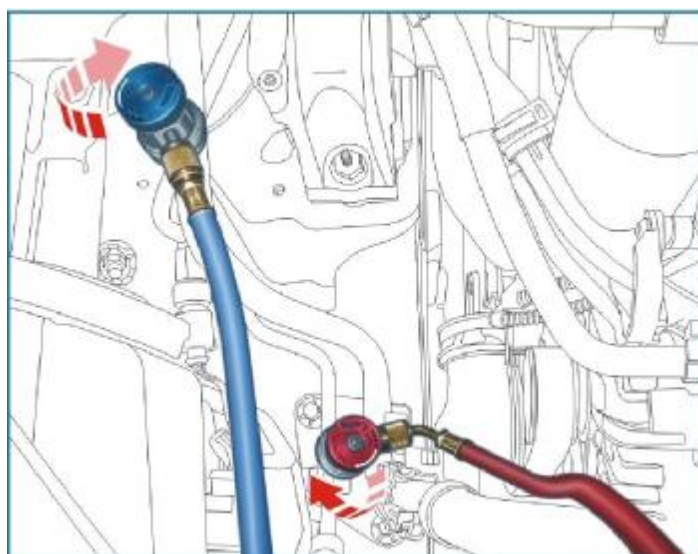
How to close High-side or Low-side adaptors:

See below picture: twist the adaptor anti-clockwise to close the quick adaptor:



How to open High-side or Low-side adaptors:

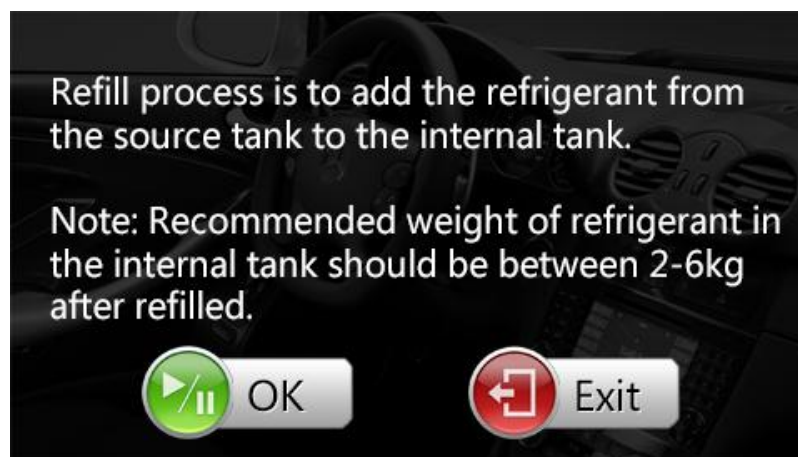
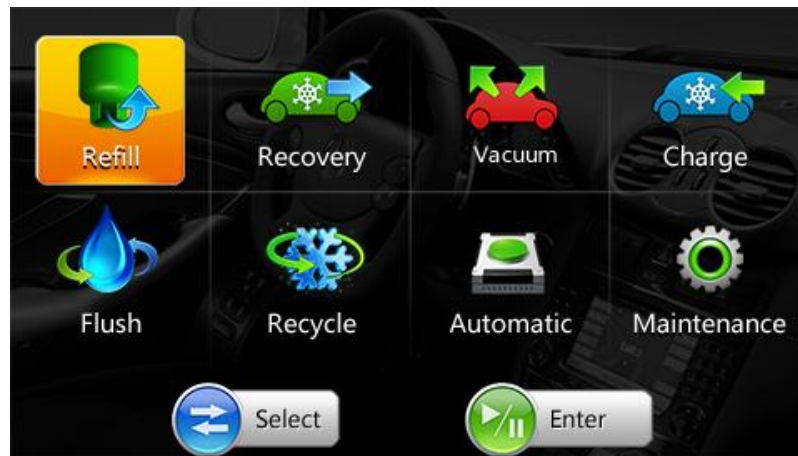
See below picture: twist the adaptor clockwise to open the quick adaptor:

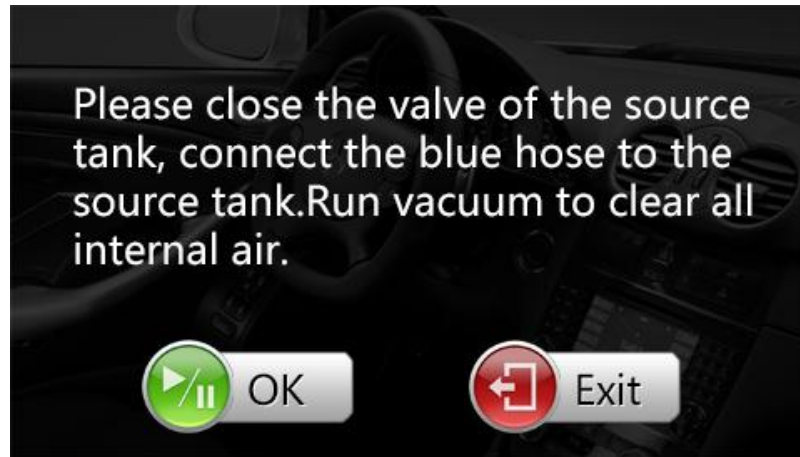


For a new machine, the storage cylinder is empty. We need to refill 2~4KG fresh refrigerant into the cylinder before operation.

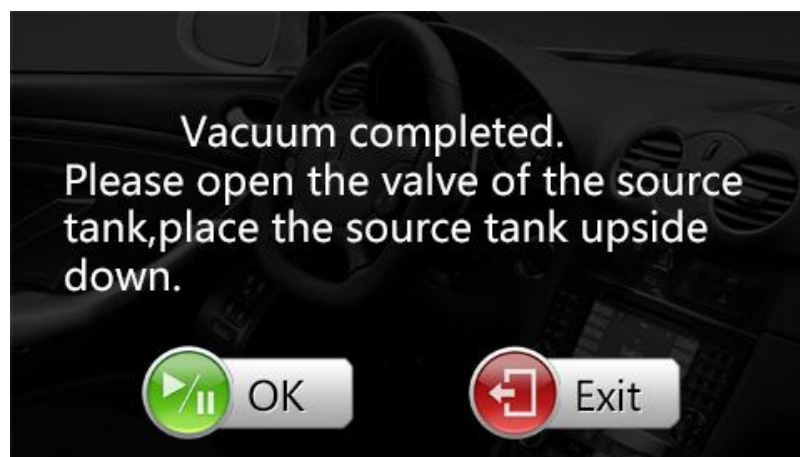
How to refill:

- 1) fix blue hose onto the “LP connector” at back of the machine, and red hose onto “HP Connector”
- 2) then connect the blue hose to the external gas tank (R134A)
- 3) Close the red quick adaptor
- 4) Turn on the machine, and choose the menu “REFILL” to go ahead.

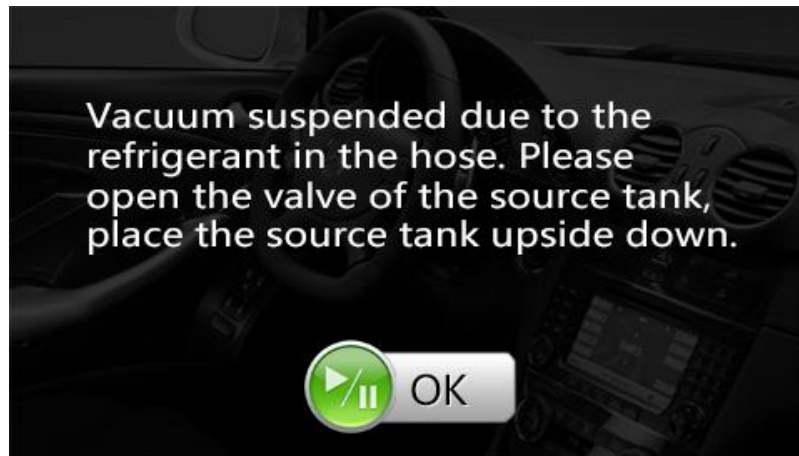





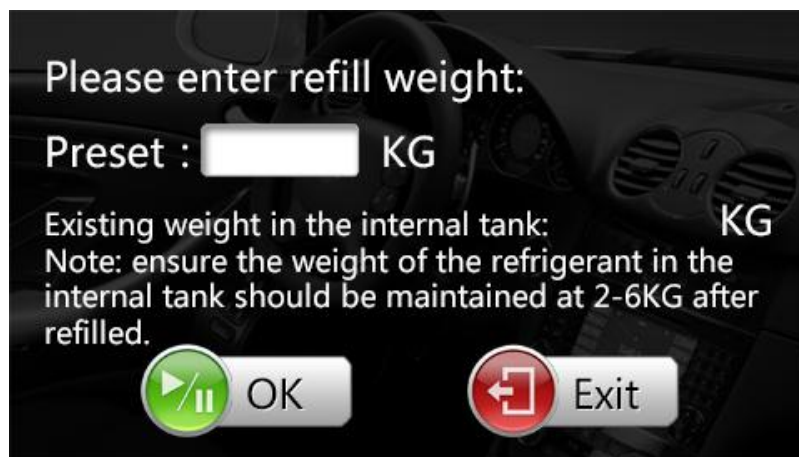
When everything going smoothly, LCD reads:



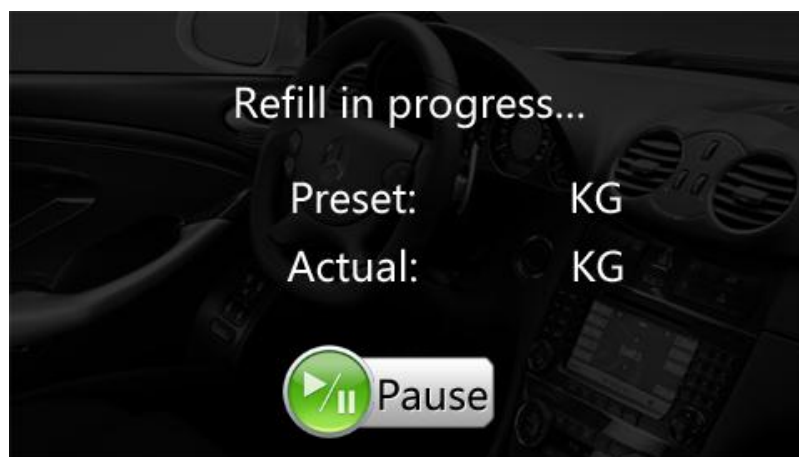
When there is refrigerant in the hose, the "VACUUM" process will be suspended, LCD reads:

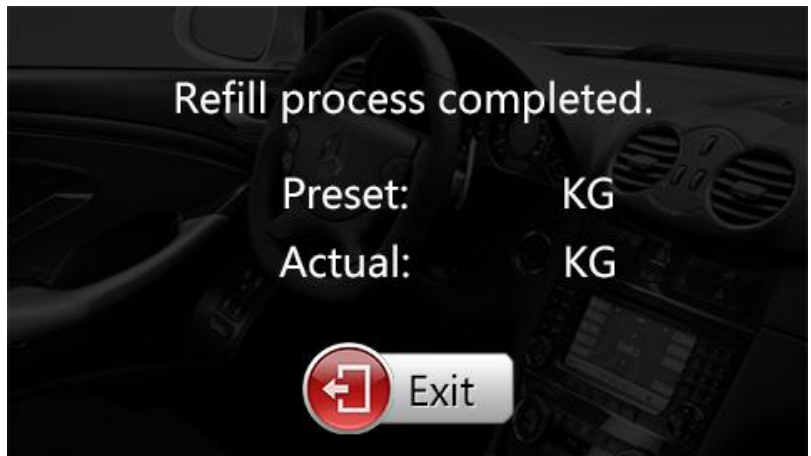
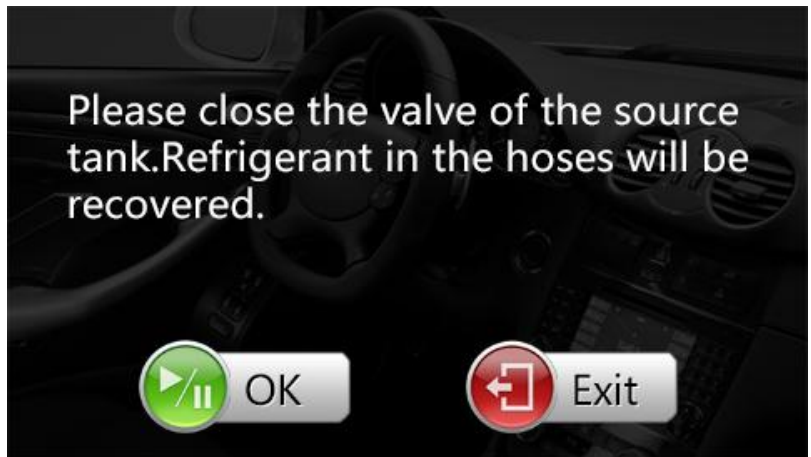
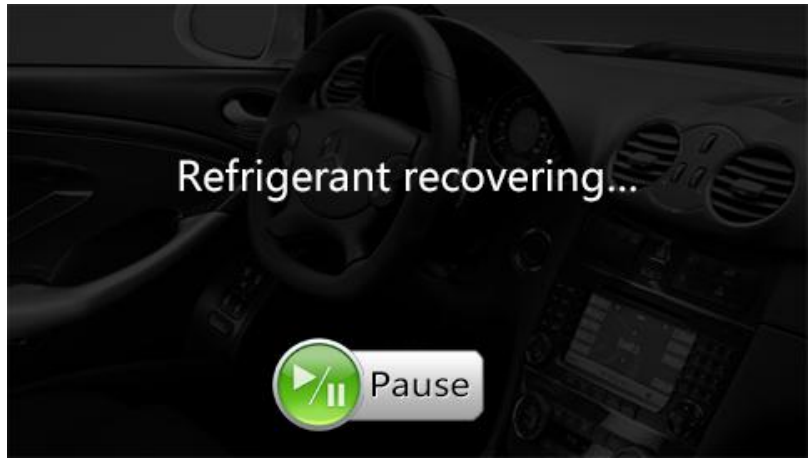



Set the value when LCD message reads as below, then press  to start refilling.



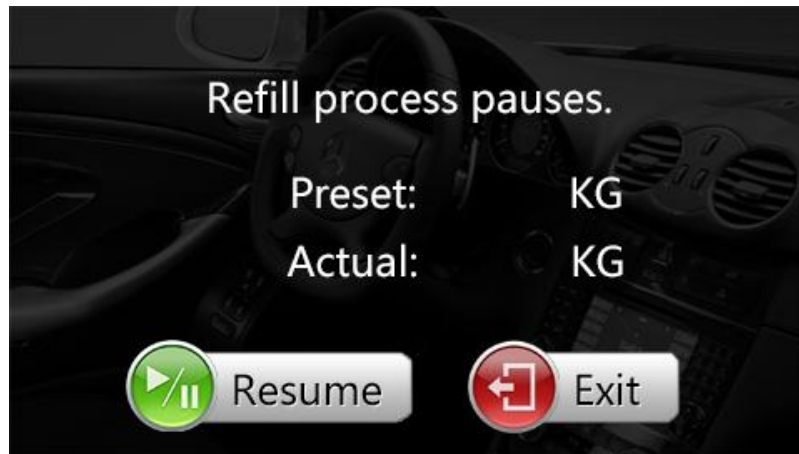
Press  to go ahead



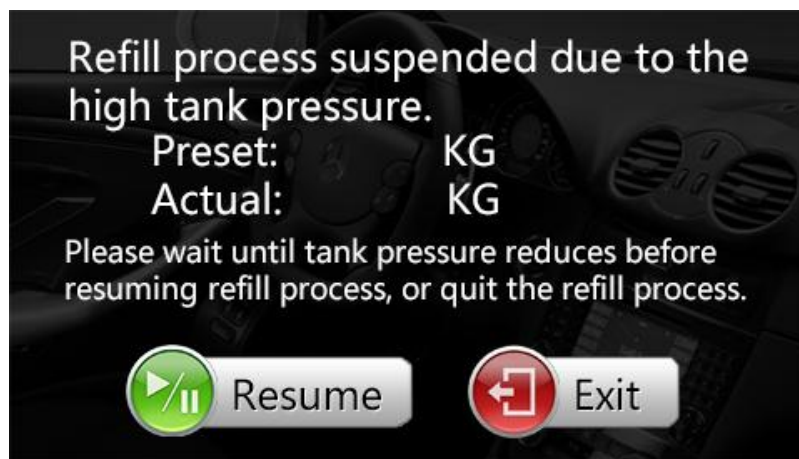


When the REFILLING process completed, press  to exit.

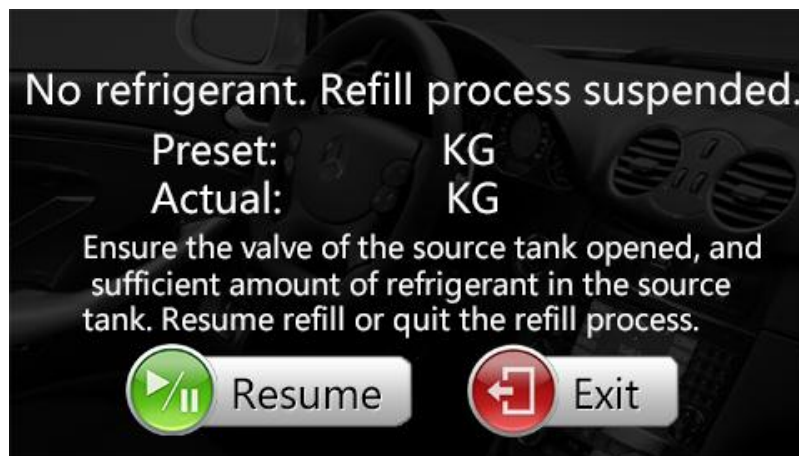
The refilling process can be suspended if you press “PAUSE”



The refilling process can be suspended when the tank being full or at high pressure.



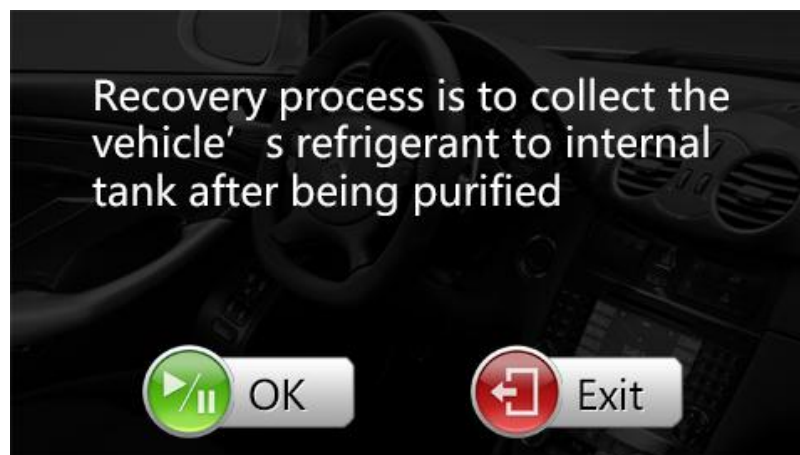
The refilling process can be suspended when there is no refrigerant in external tank.



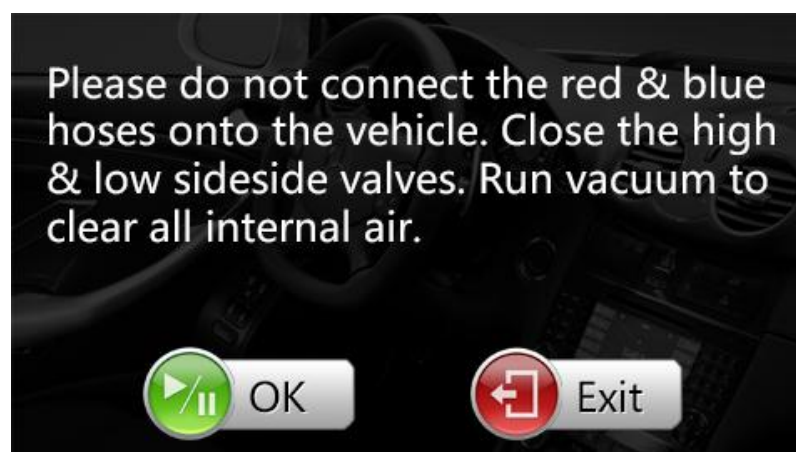
1. Switch on the machine, press  to choose "RECOVERY", then press 



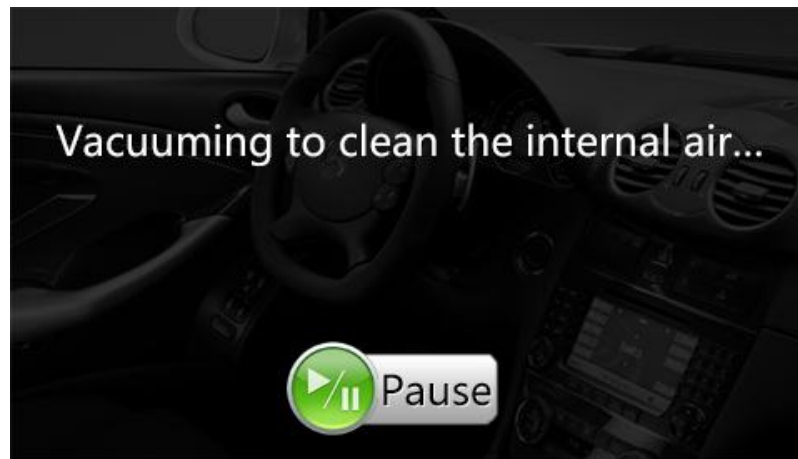
2. Press  to continue



3. When we read the following message, please follow the instruction to do vacuum




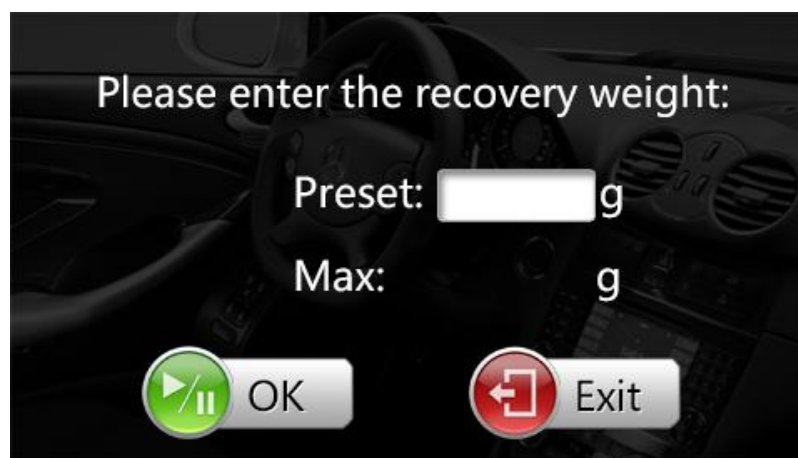
4.



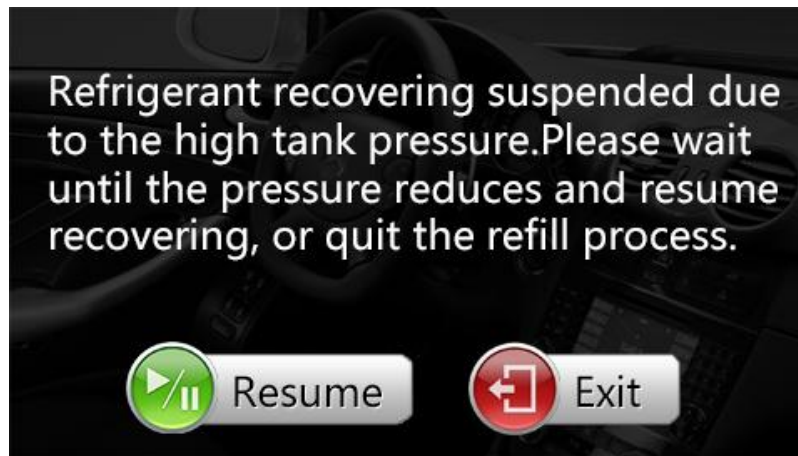
5 After vacuum, press  to next step.



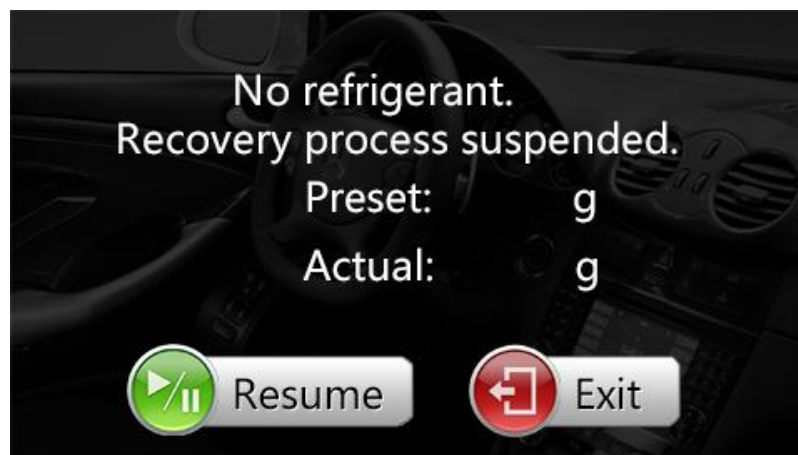
6. After setting value, please press  to continue



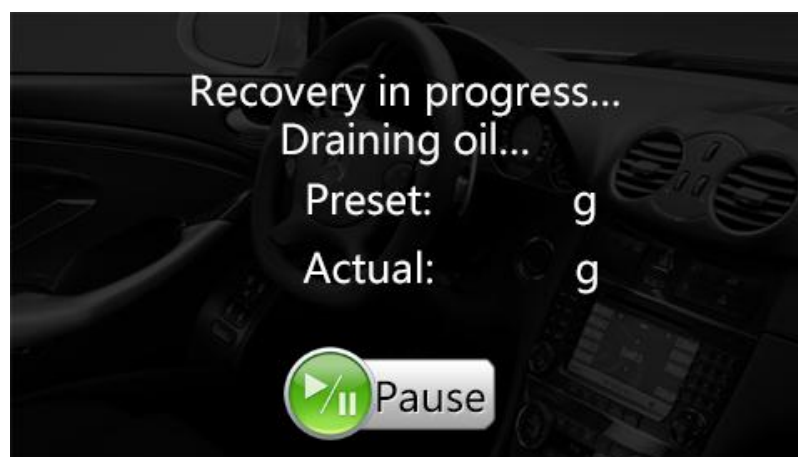
-
7. The recovery process can be suspended when the storage cylinder full or pressure too high.



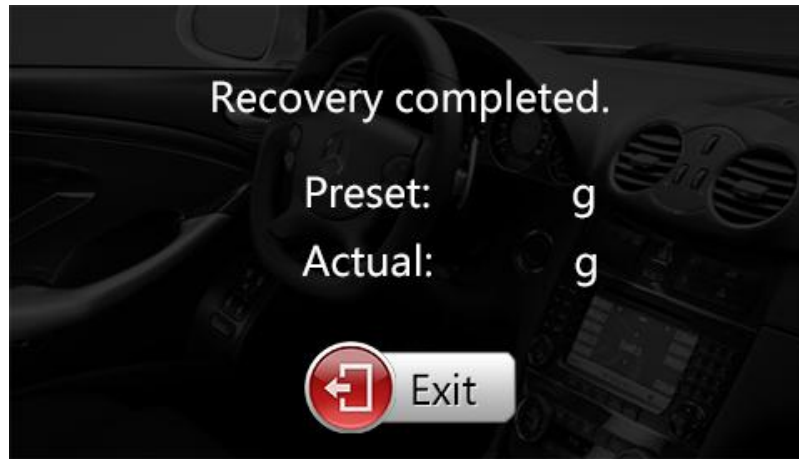
8. The recovery process can be suspended when NOT enough refrigerant inside the A/C system:



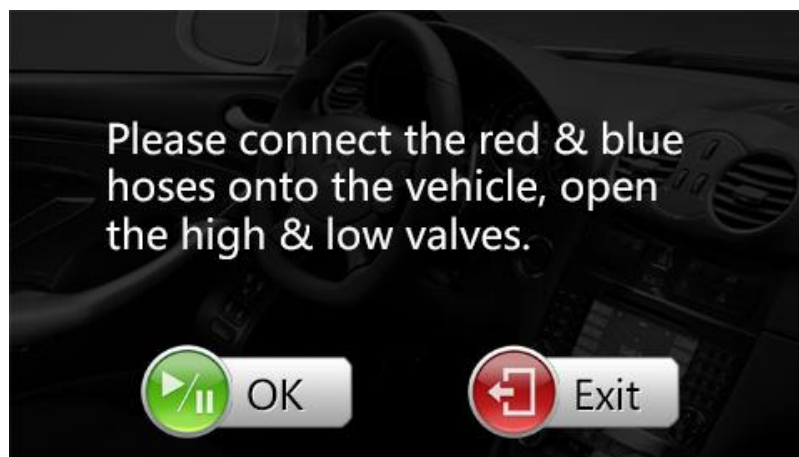
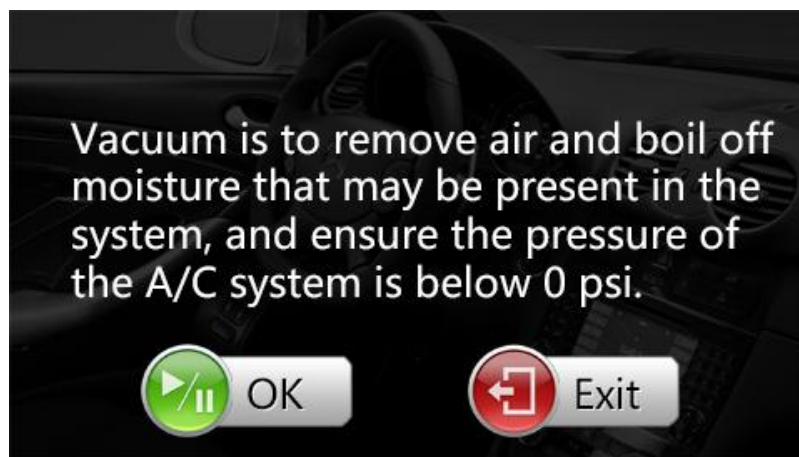
9. When the recovery process is going back to normal, it reads:

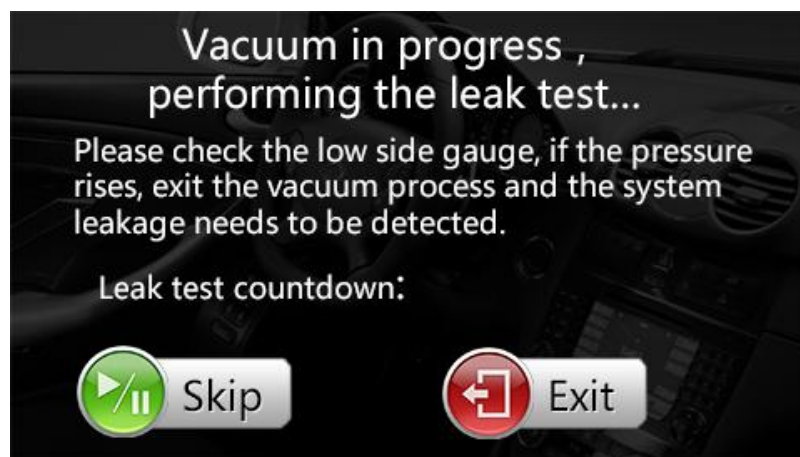
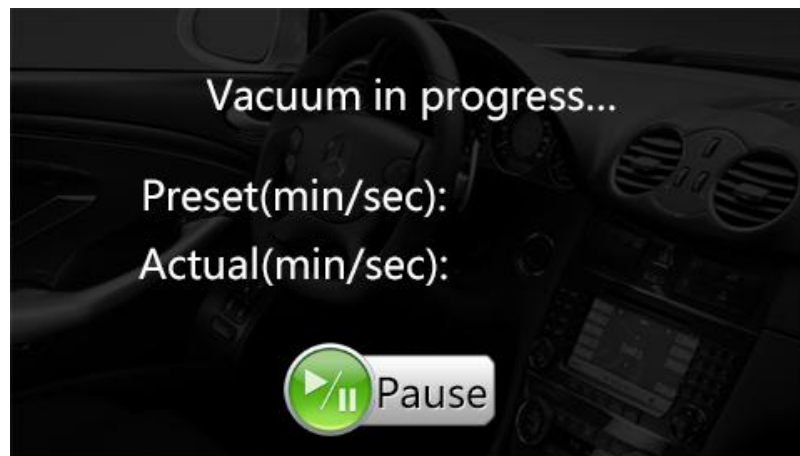


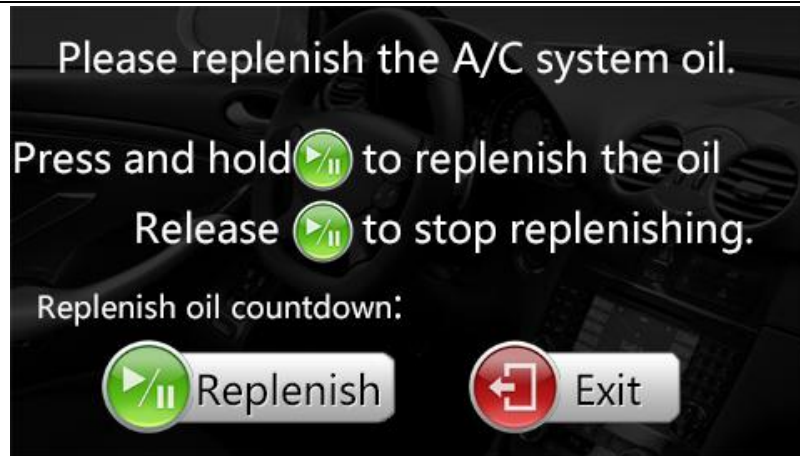
10.



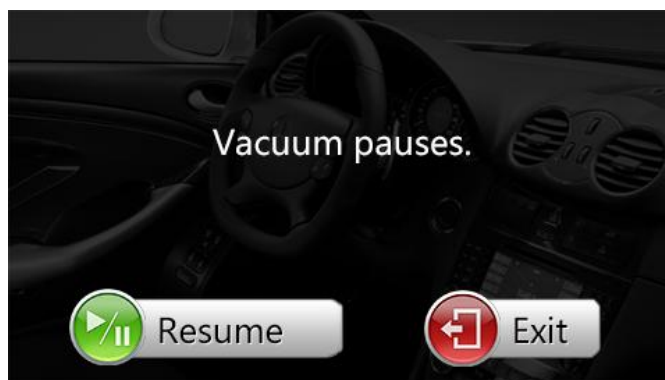
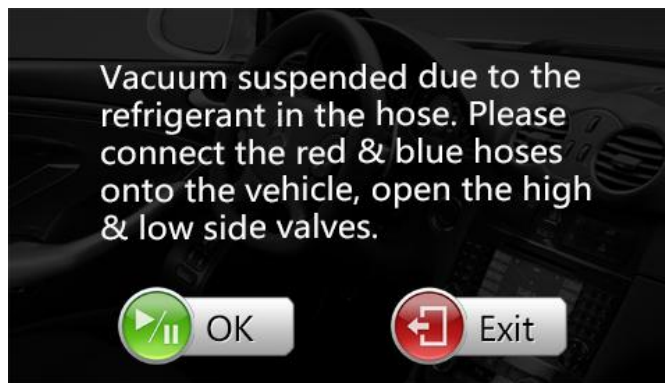
Before charging refrigerant into the A/C system, please vacuum the system first.







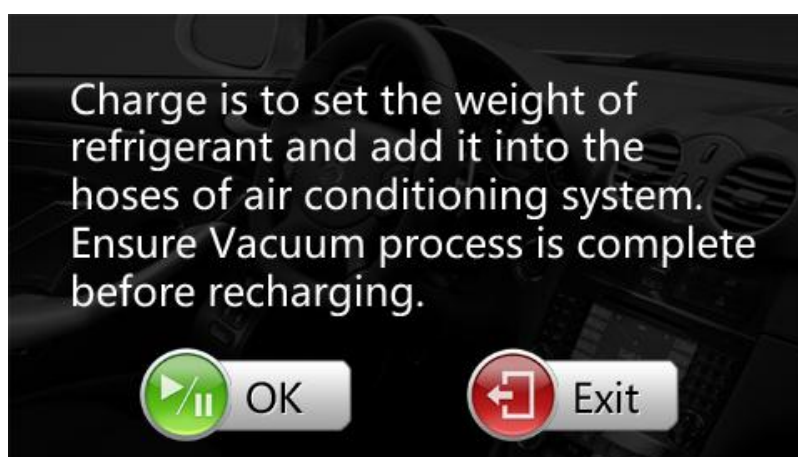
Vacuum process can be suspended when there is refrigerant in the hose, or you “PAUSE” it.




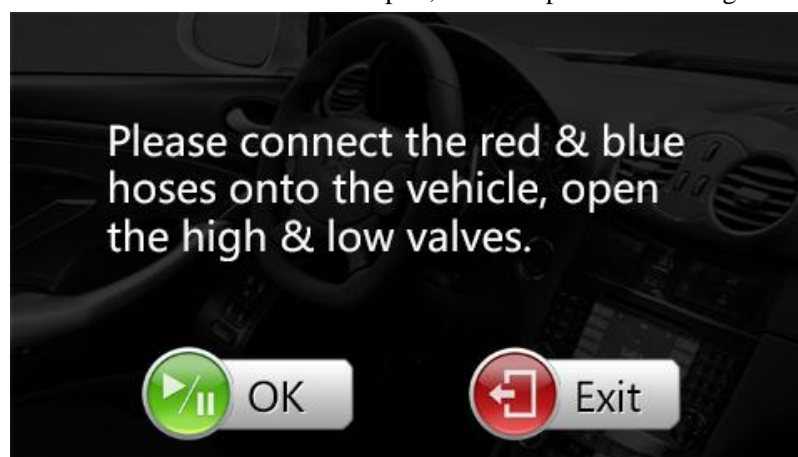
1. Turn on, choose "Charge"



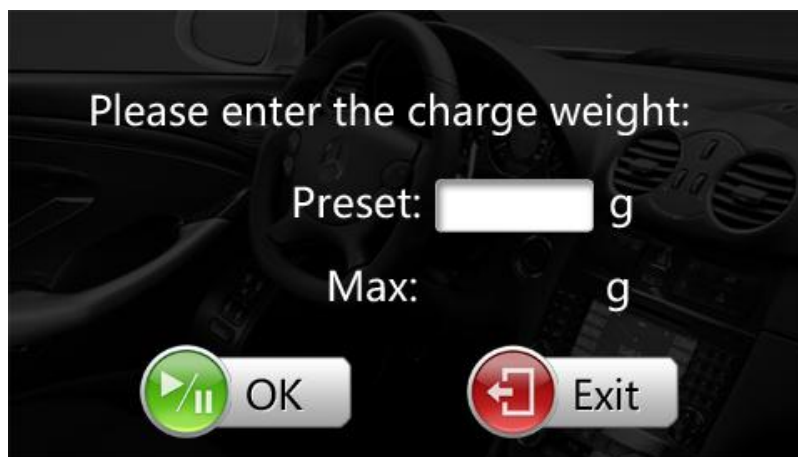
2. Press  to next step



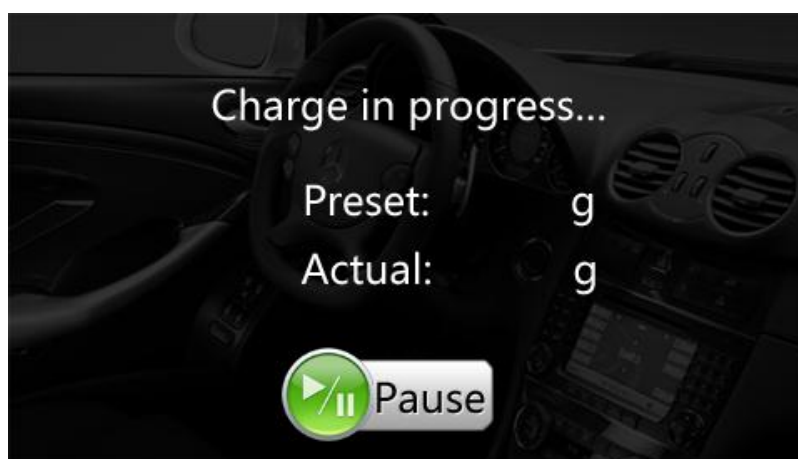
3. Refer to Page 8~ 9 on how to connect hoses and adaptor, and then press  to go ahead.



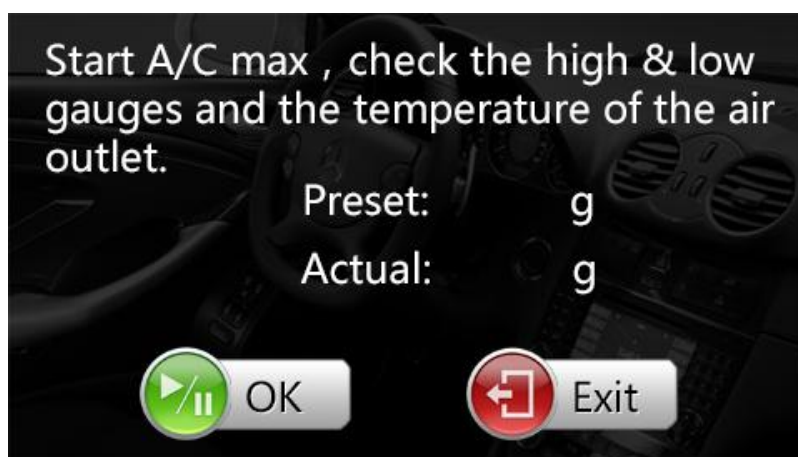
4. Set the charge amount, then press



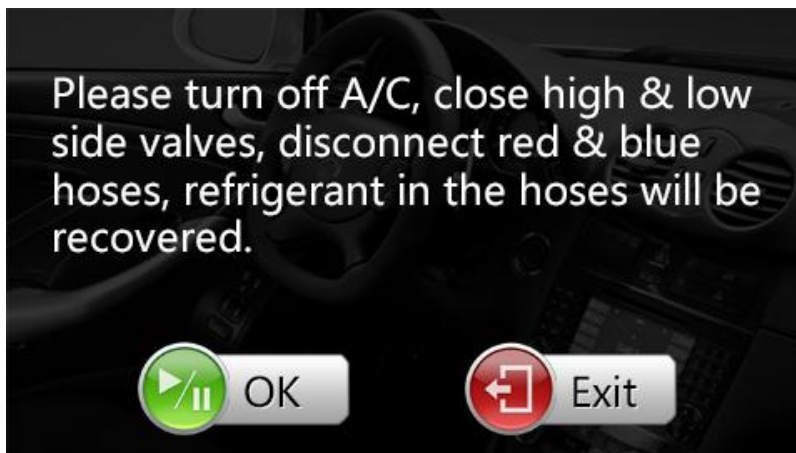
5.



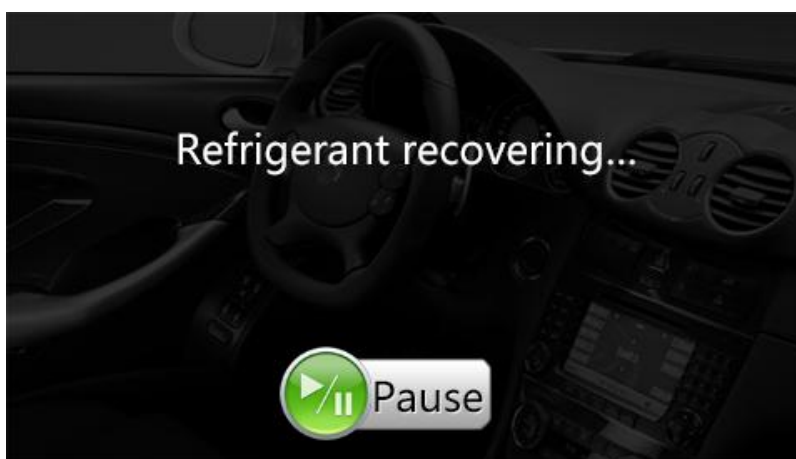
6. After charging, please check if air outlet cool or not, then press



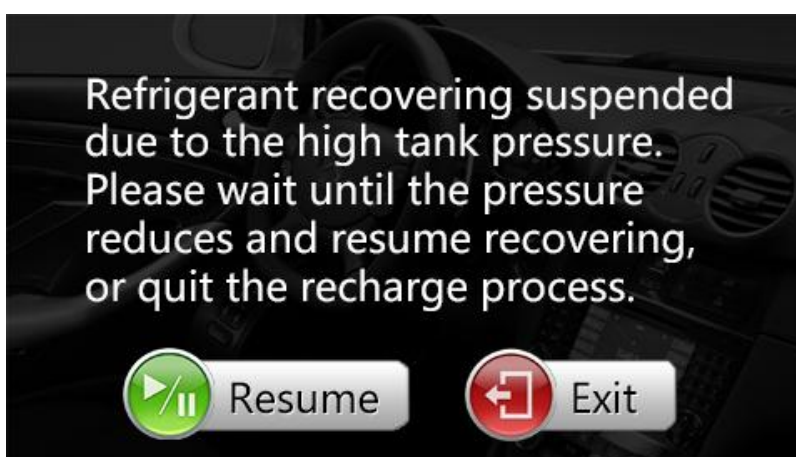
7. Follow the instructions on the screen, and press




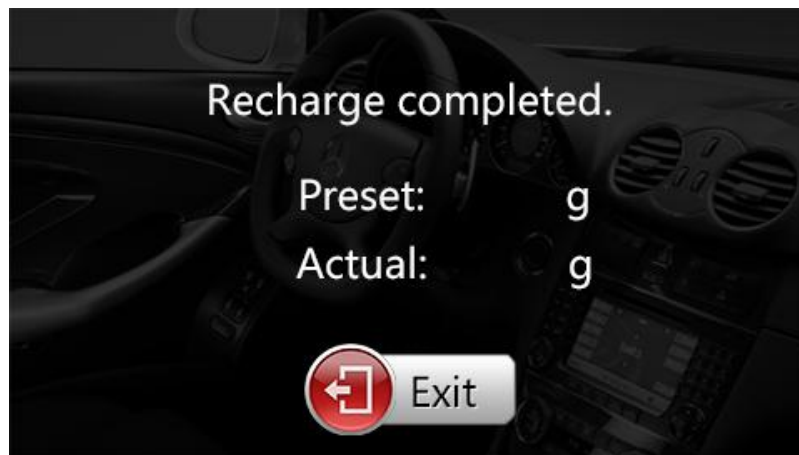
8. The recovery process is going smoothly, it reads:



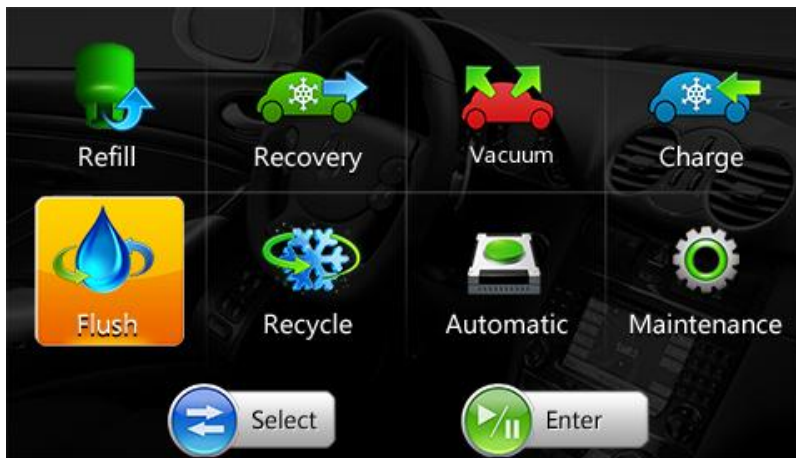
9. If recovering residue gas from the hose, it reads as below. And please follow the instruction.



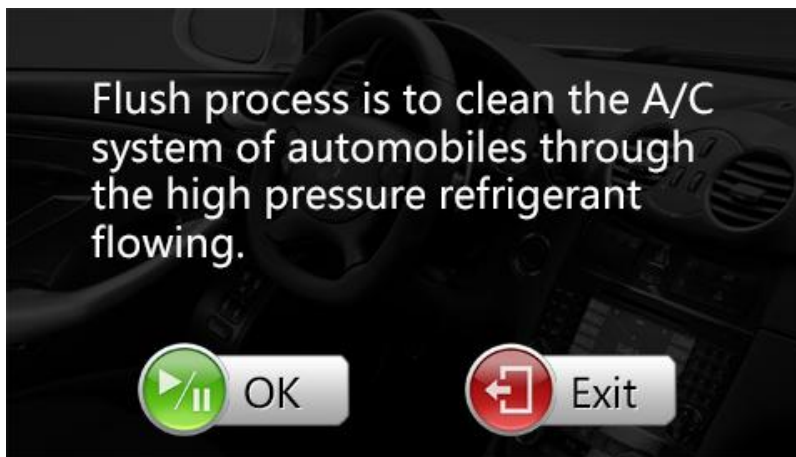
10. Charge process being done, and please press  to exit.



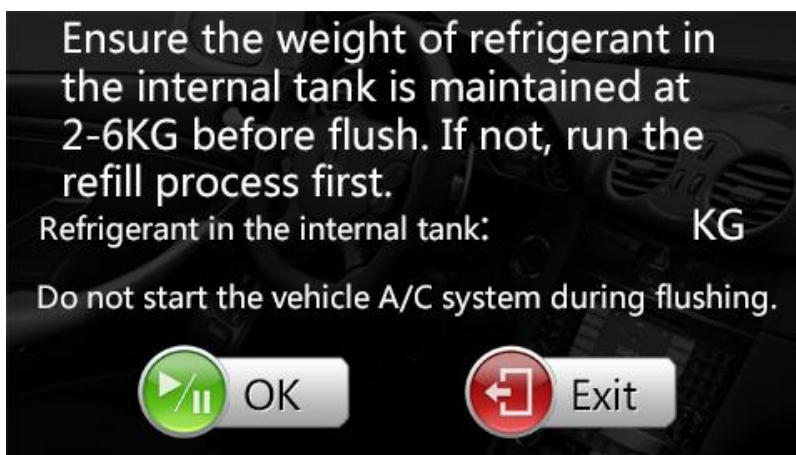
1. Press  to choose "FLUSH", then press  to enter



2. press  to enter



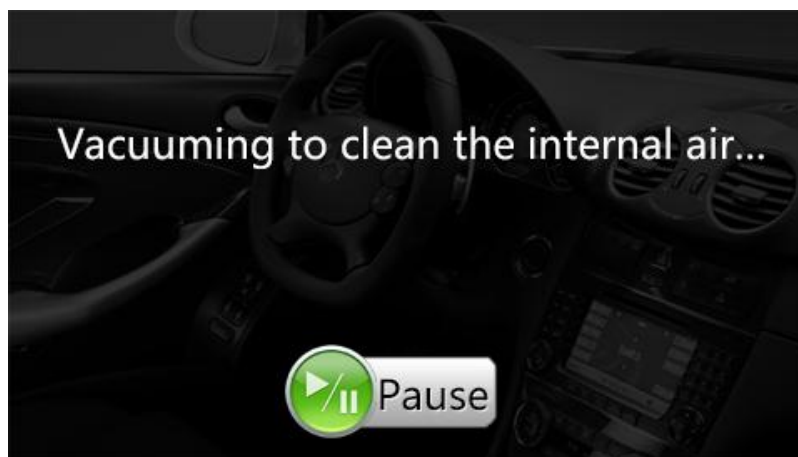
3. press  to enter



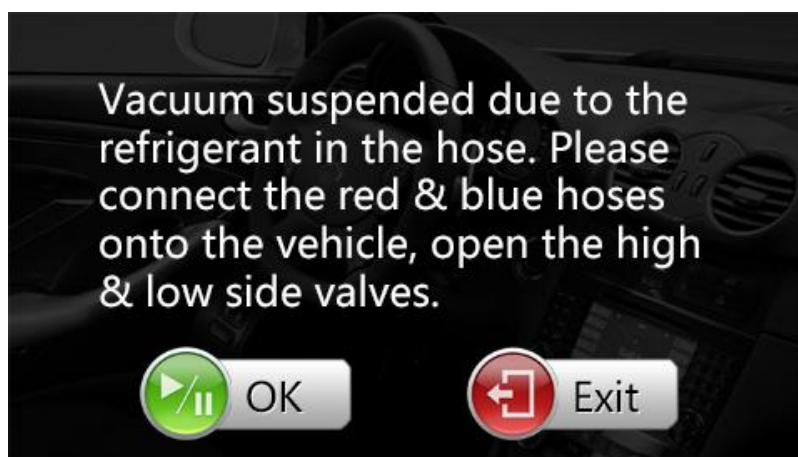
4. Vacuum before flushing,



5.




6. When there is gas inside the hose, vacuum can be suspended. Need to recover the hose first.



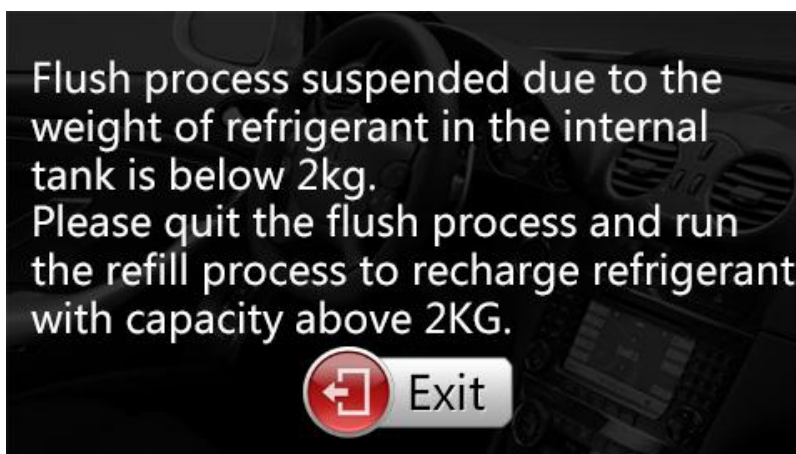
7. Vacuum done



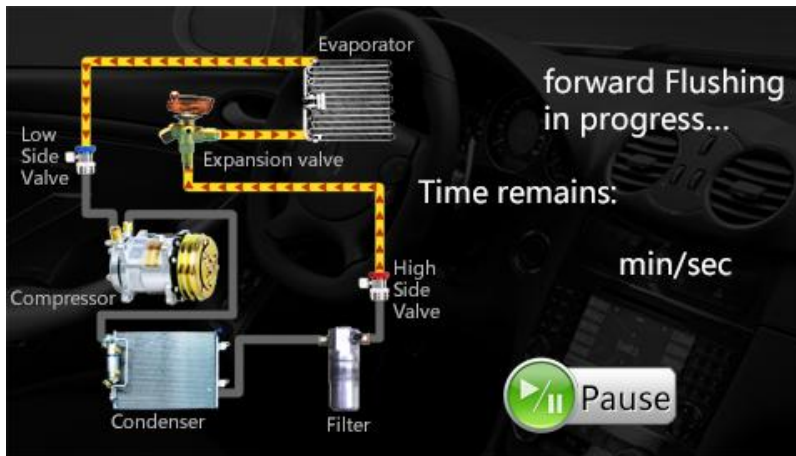
8. Set the times you need to flush, and press  to continue.



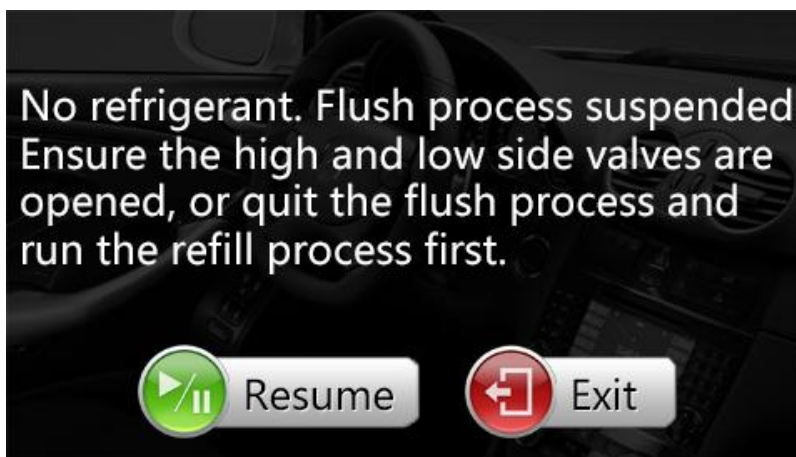
9. The gas amount should be more than 2KG inside the tank, otherwise, there will be a warning:



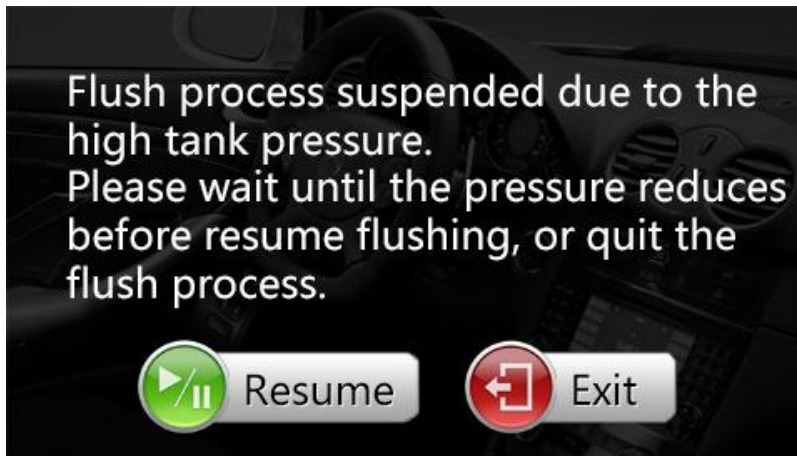
10. When the flushing process is going smoothly, it should be displaying the route of flushing.



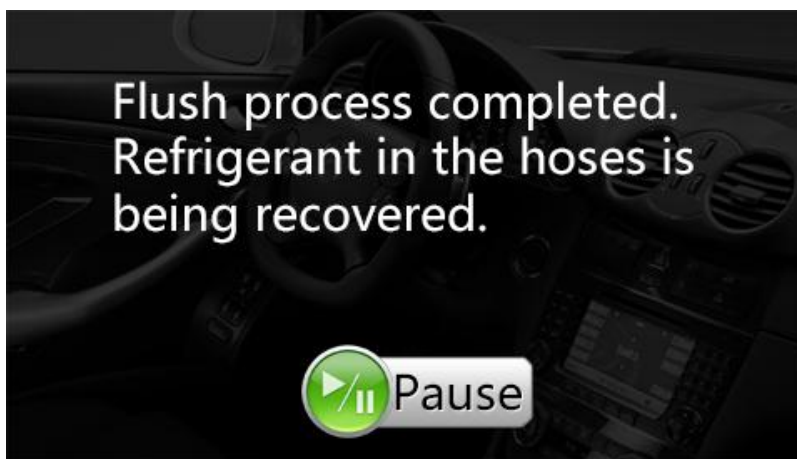
11. When gas amount too little or the valve being closed, flushing will be stopped.



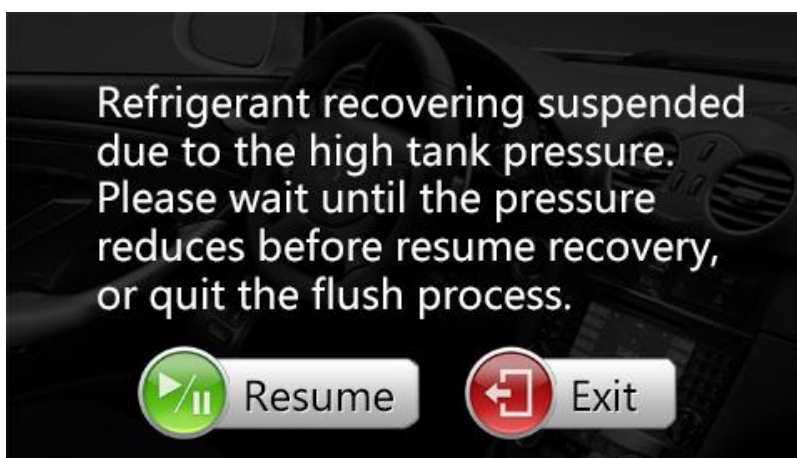
12. When the tank being full or pressure too high, flushing will be stopped.



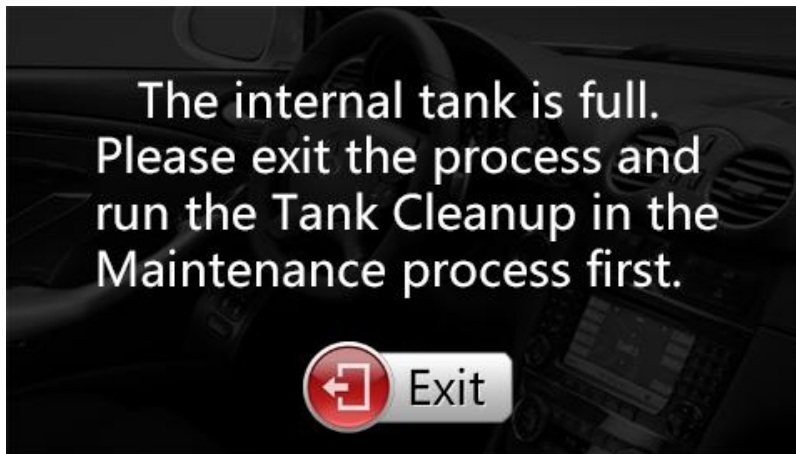
13. When flushing completed, it will recover the residue gas from the hose automatically.



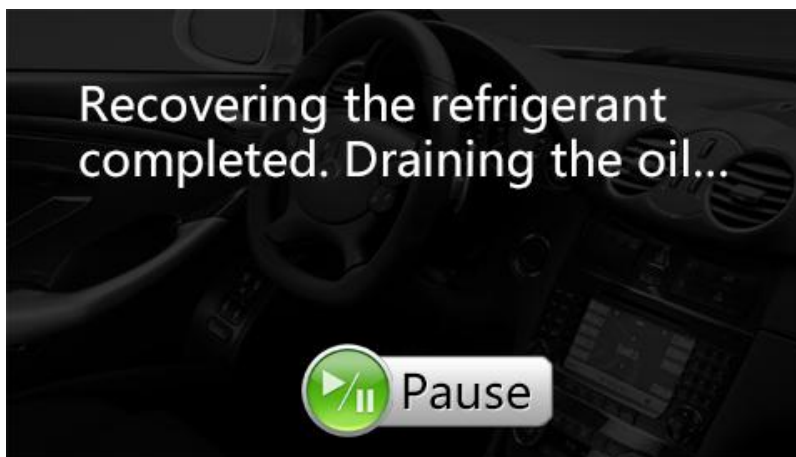
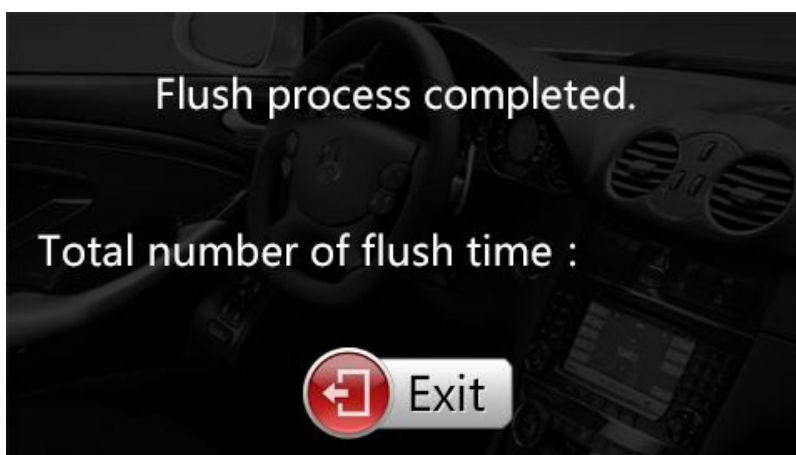
14. When tank pressure beign high, recovery will be suspended.



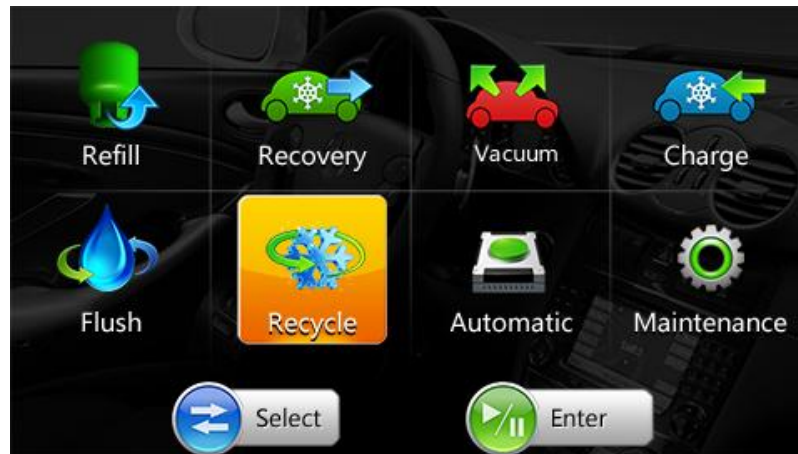
15.



16. After recovery from the hose, it will drain the oil automatically.

17. Flushing completed. Press  to go back to main menu.

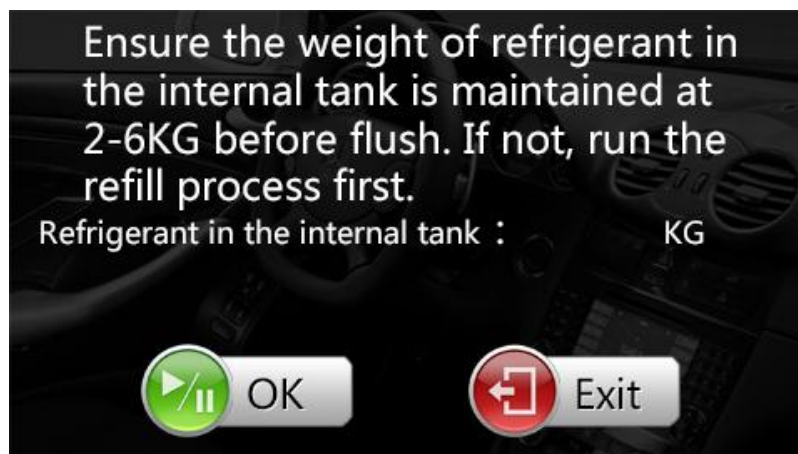
1..



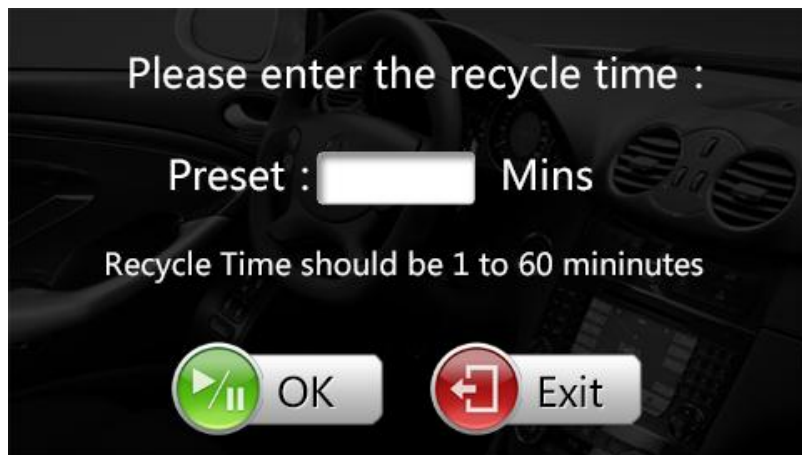
2.



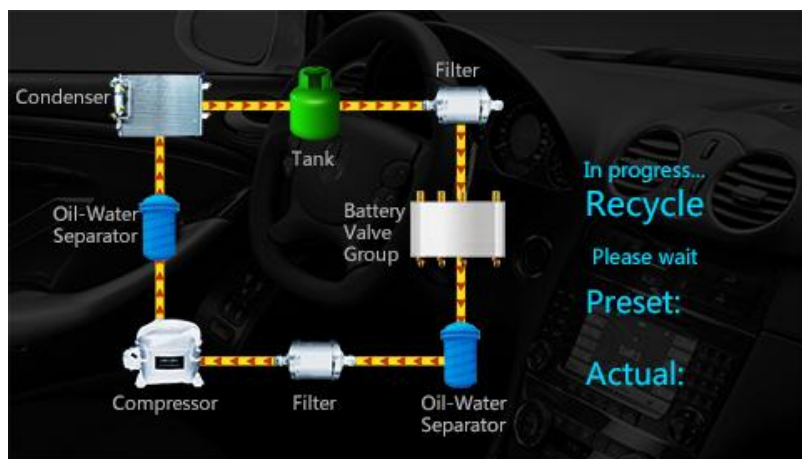
3.



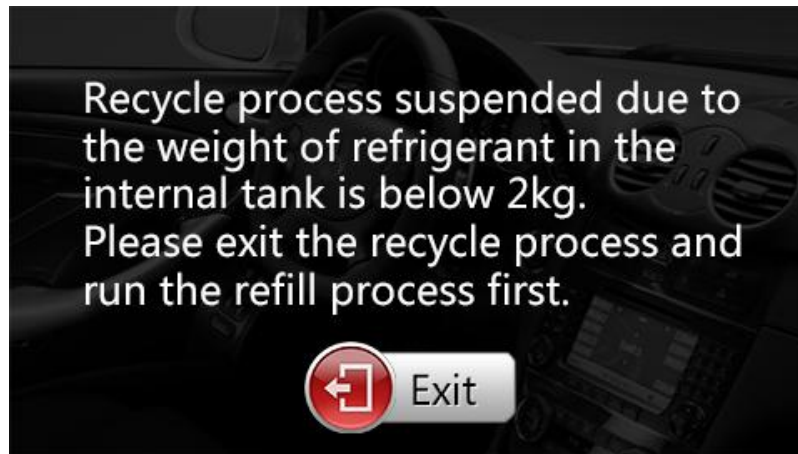
4.



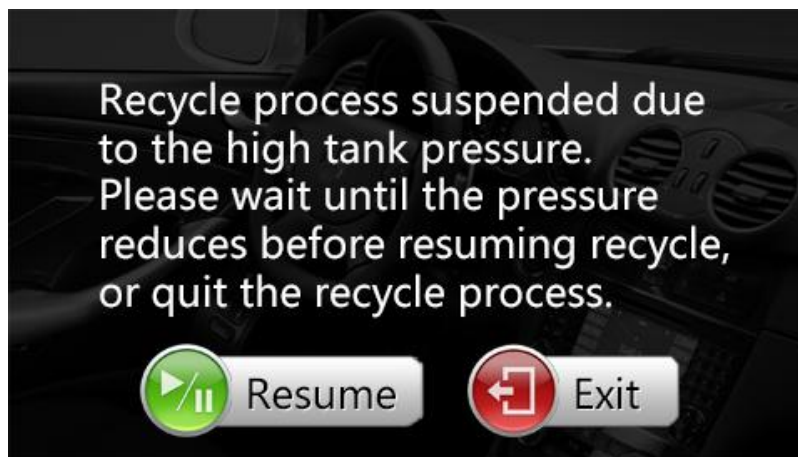
5. We can see the recycling route when it is going smoothly




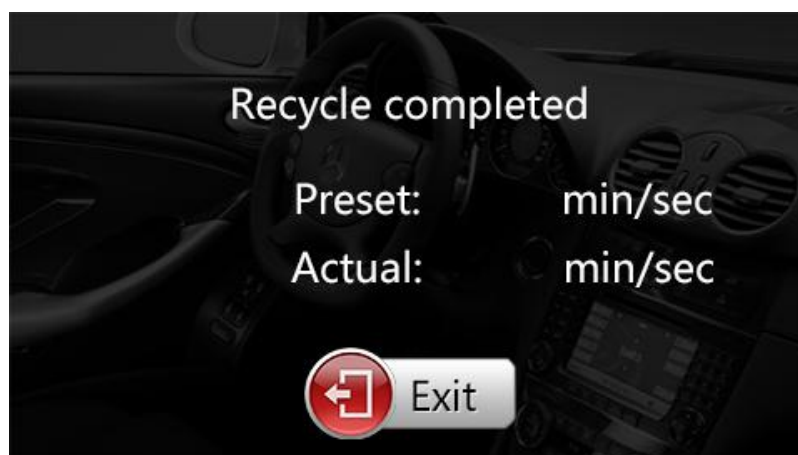
6. When recycling failed, this message can be displayed



6. When pressure too high:



8. Recycling done, press  to exit.

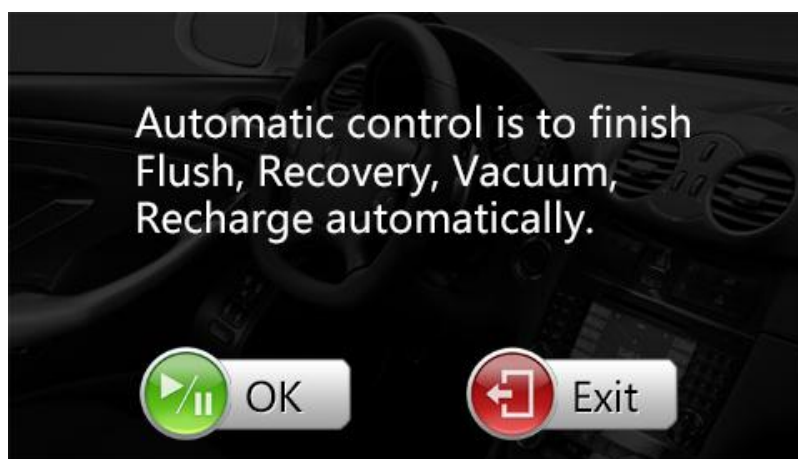


(1) Flush + Recovery + Vacuum + Charge

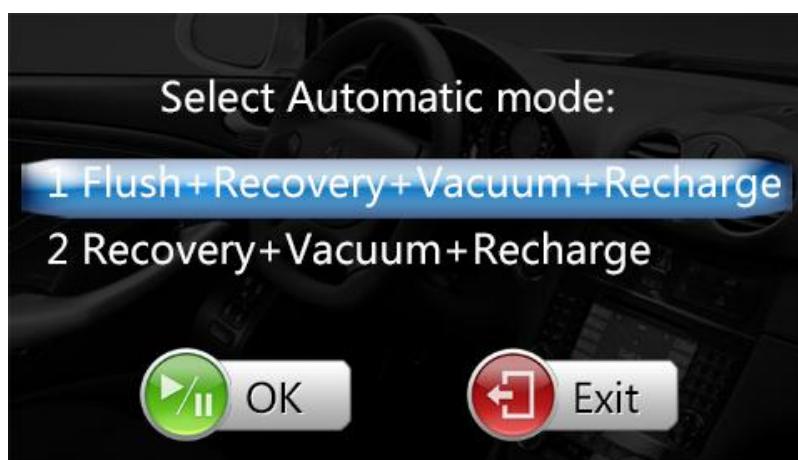
1.



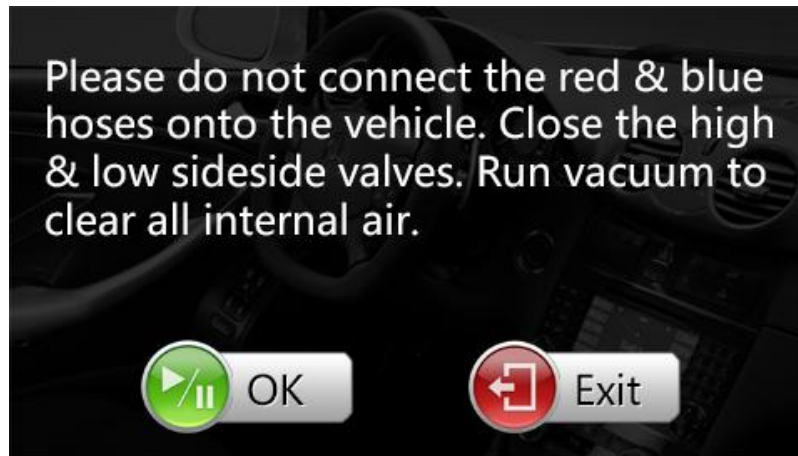
2.



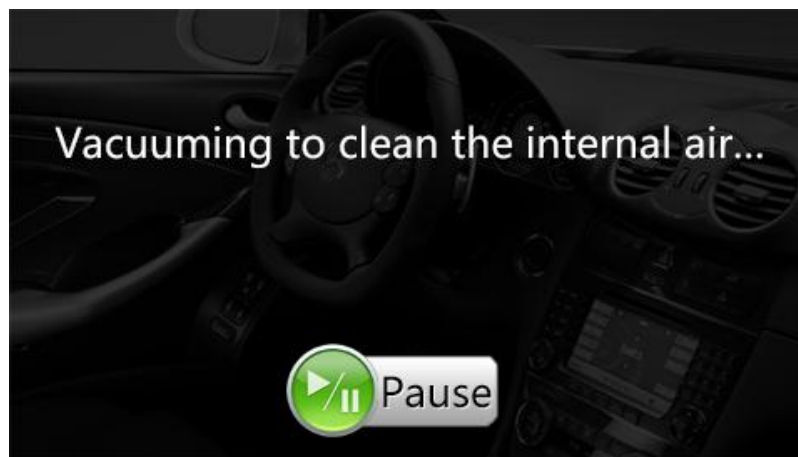
3.



4. Follow the instruction if you see this message.



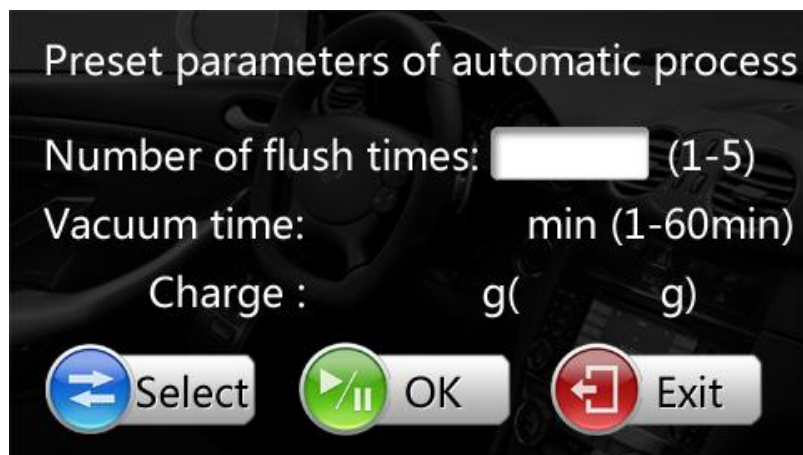
- 5.



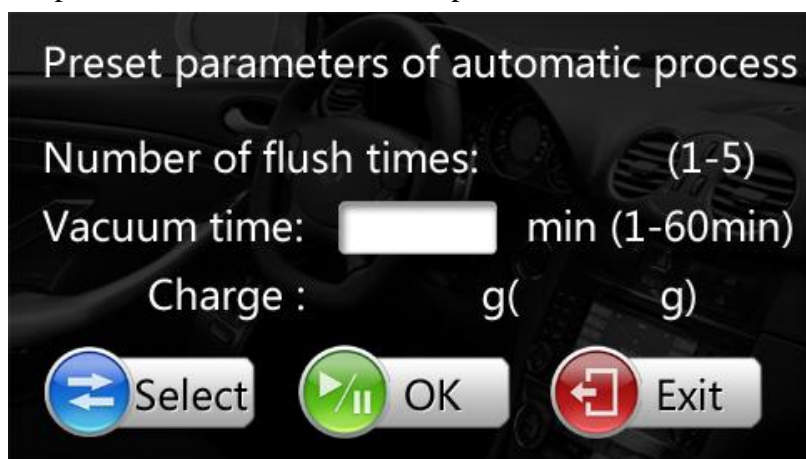
- 6.



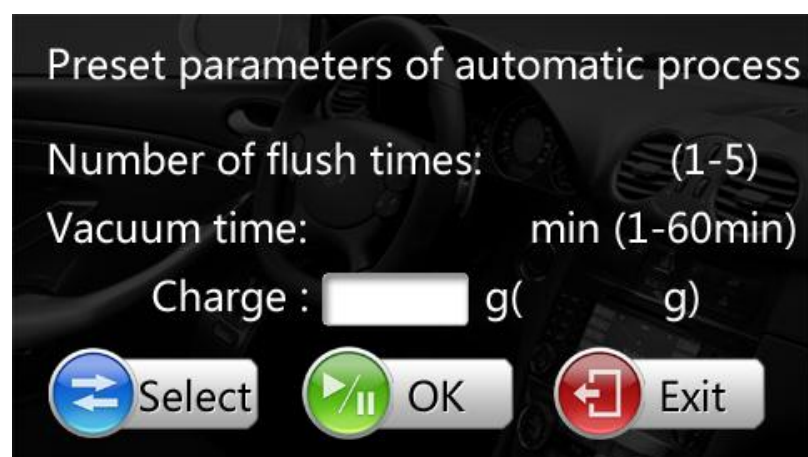
7. Set the value:



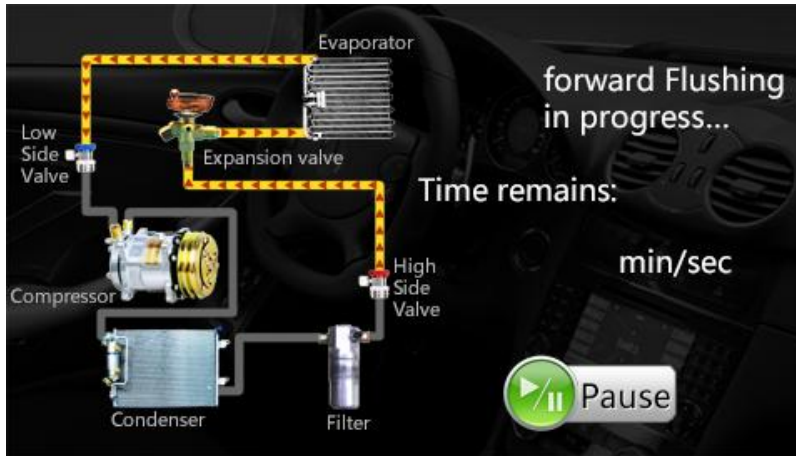
8. Set the value, and press  to shift to another parameter



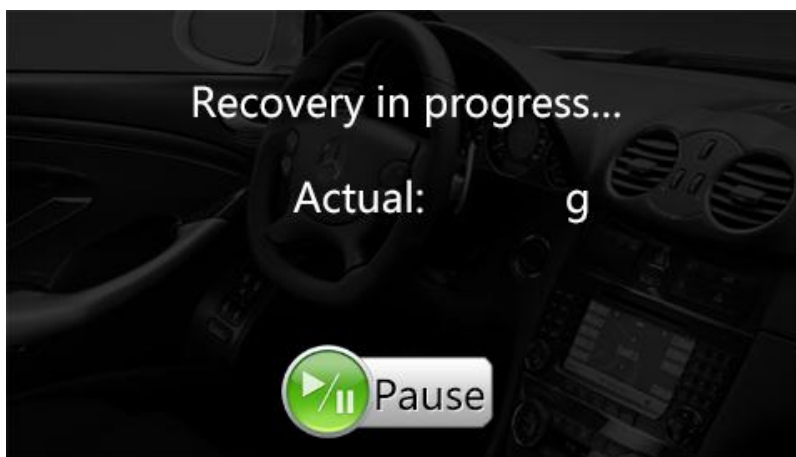
9.



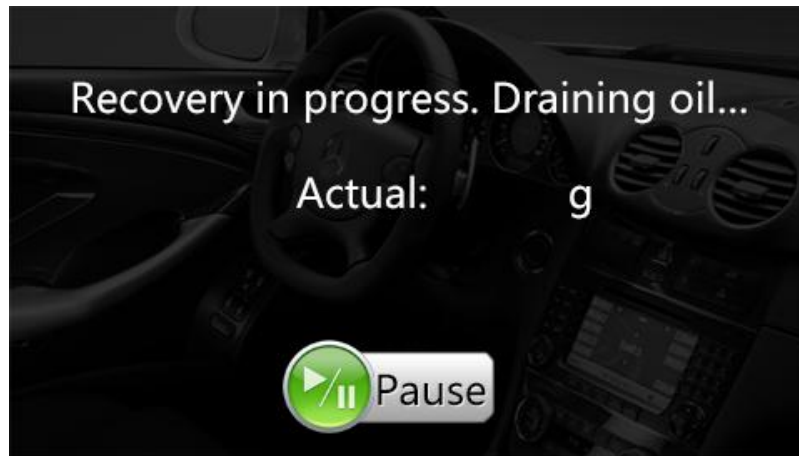
10.



11. After flushing, it will recover gas from the hose. We can see the actual recovery amount.



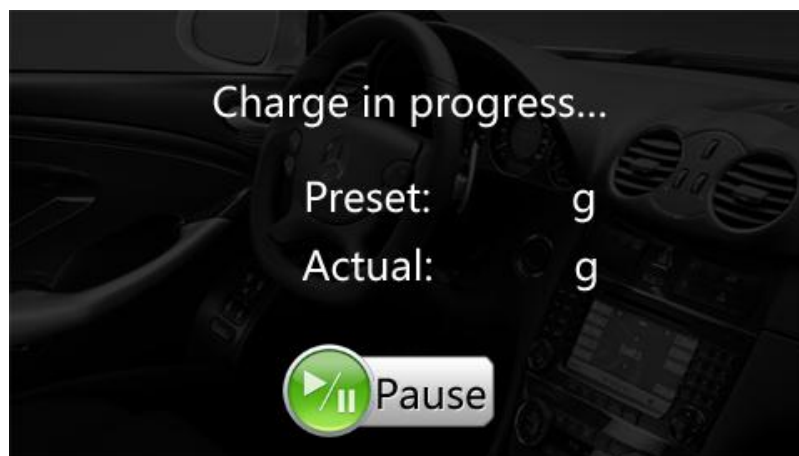
12. It will drain the oil after recovery



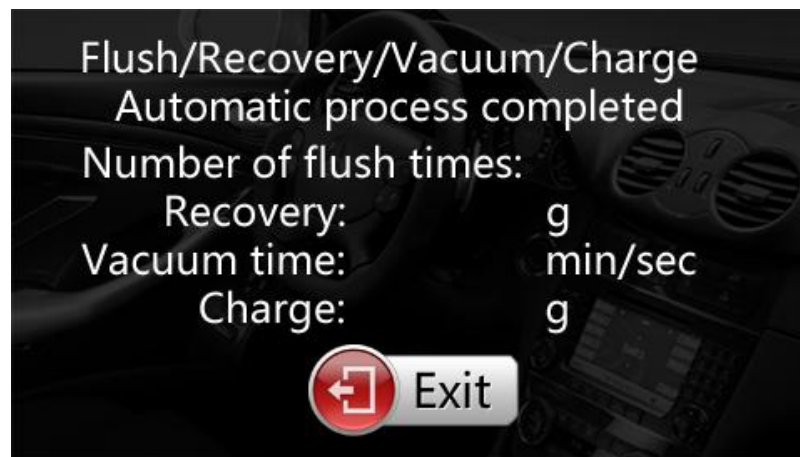
13. After recovery, jump to Vacuum process



14. Jump to charge process



15. Done



(2) Recovery + Vacuum + Charge

1.



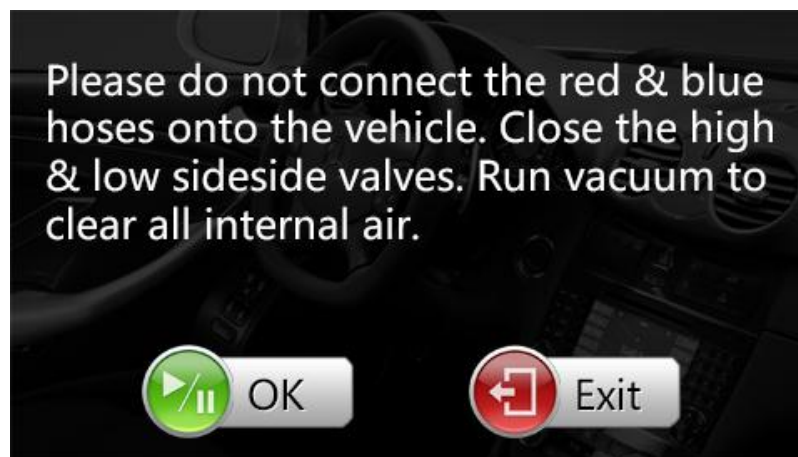
2. Press to go ahead



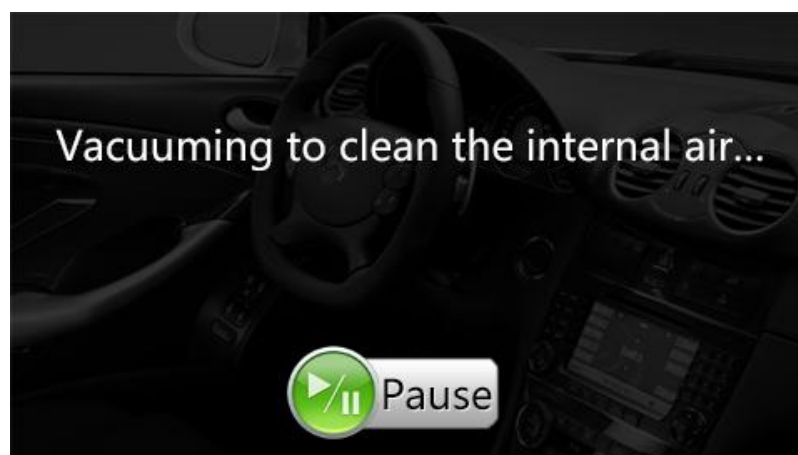
3.



4.



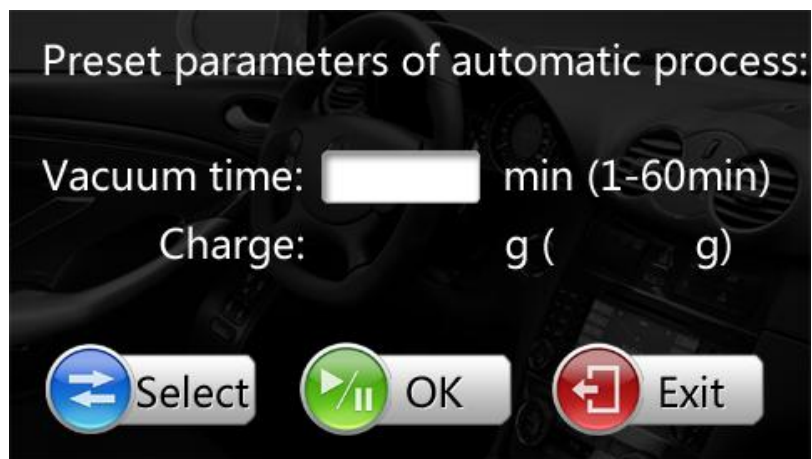
5.



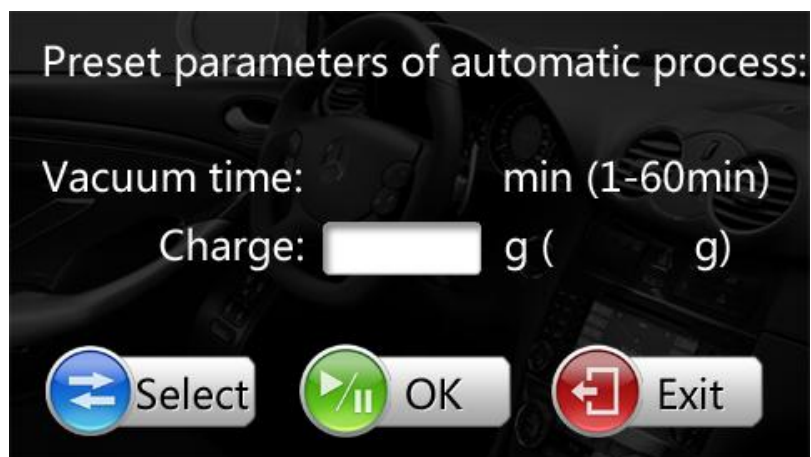
6.



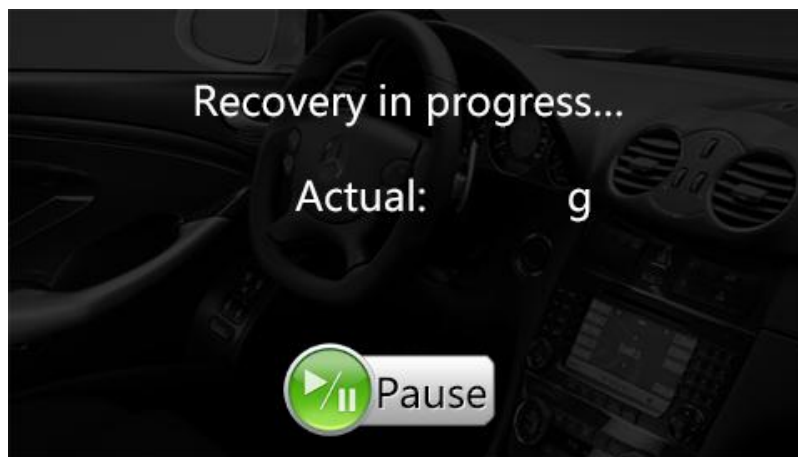
7.



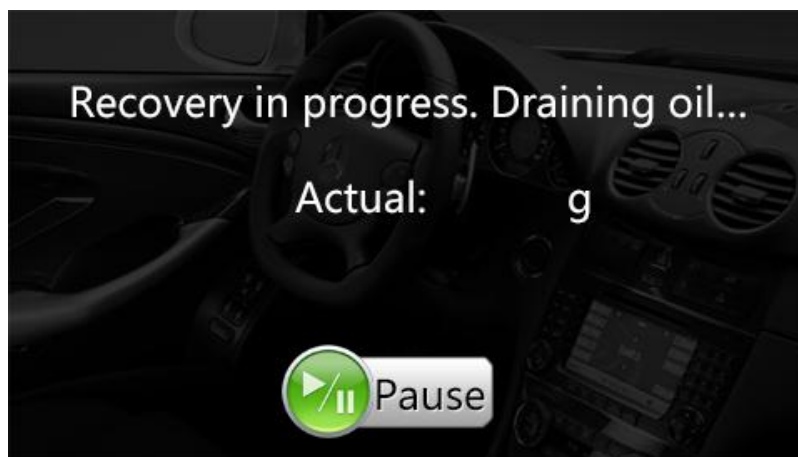
8.



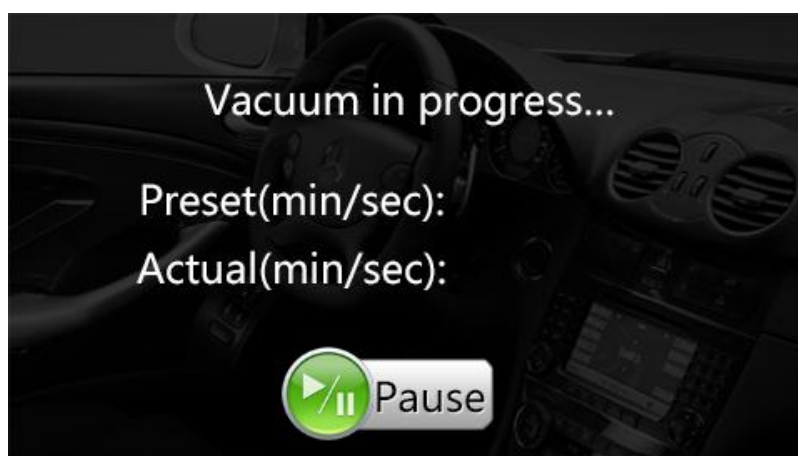
9.



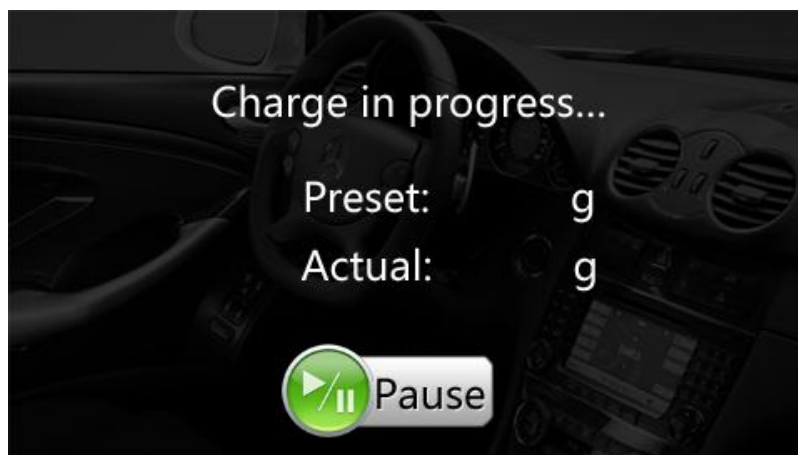
10.



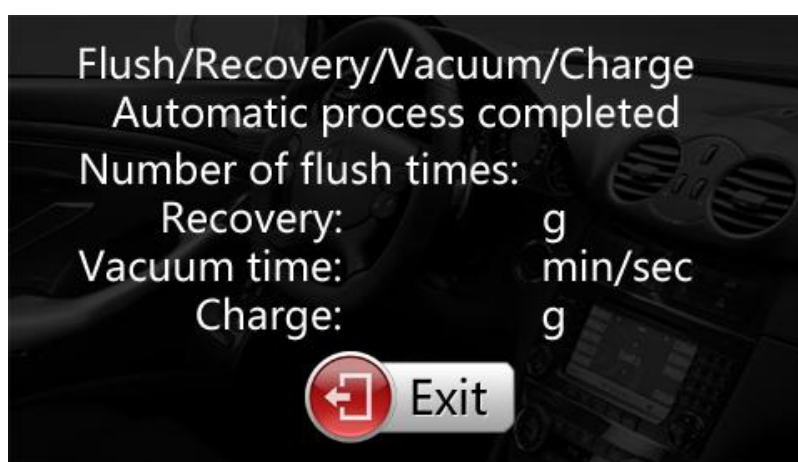
11.



12.



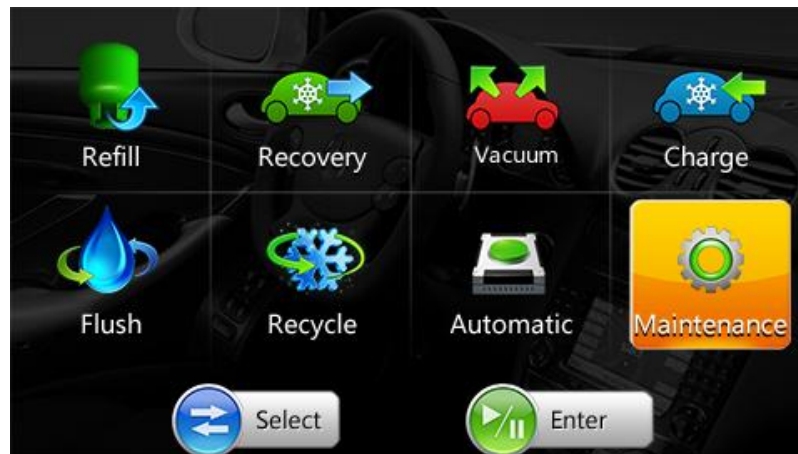
13.



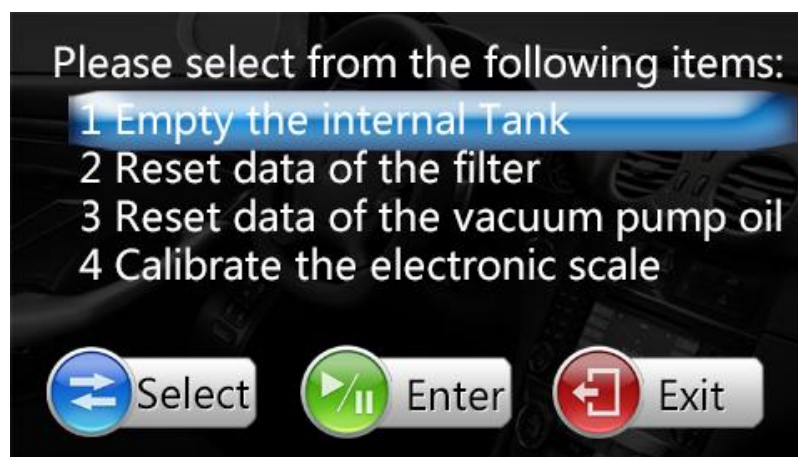
(1) Empty the internal tank

When the tank being full, need to charge out some gas or even empty the tank.

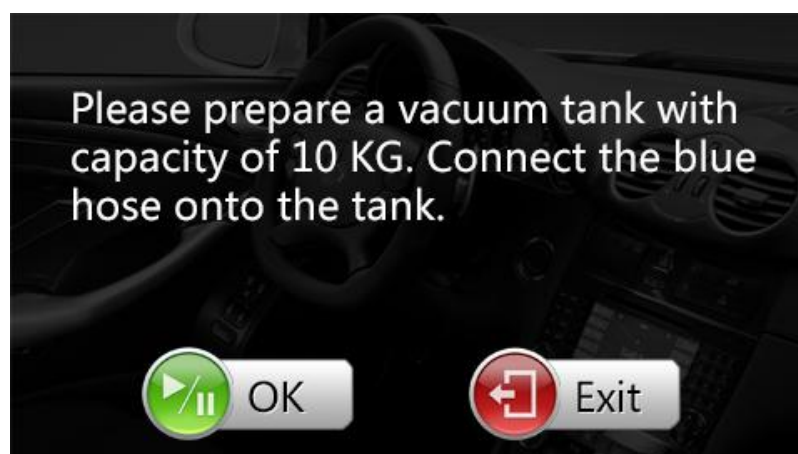
1.



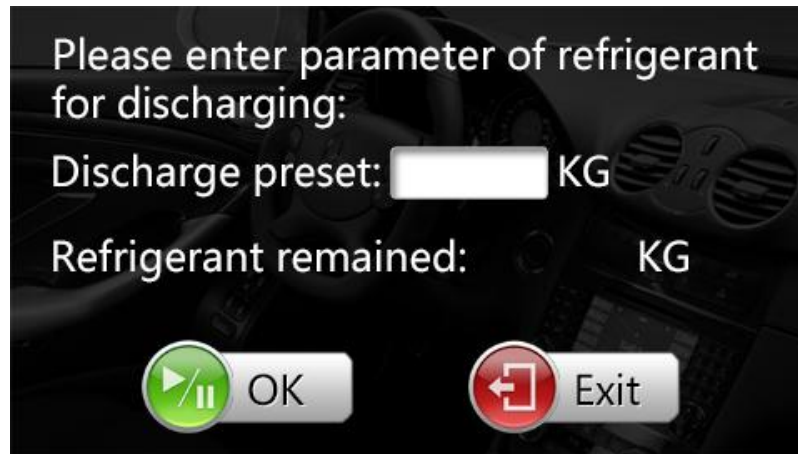
2.



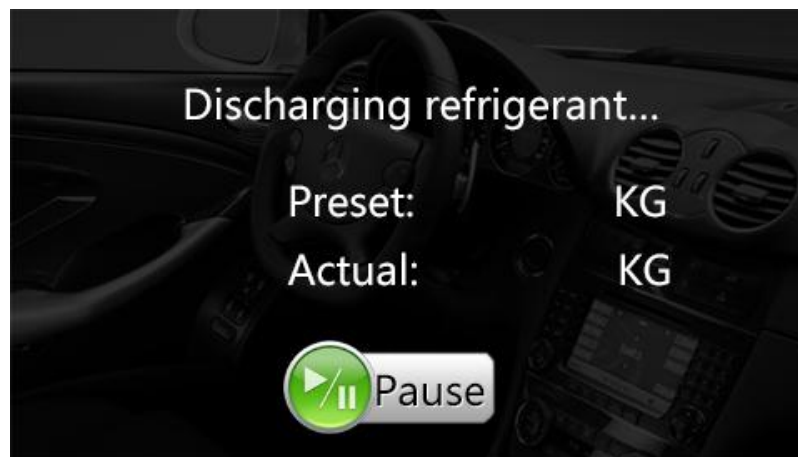
3.



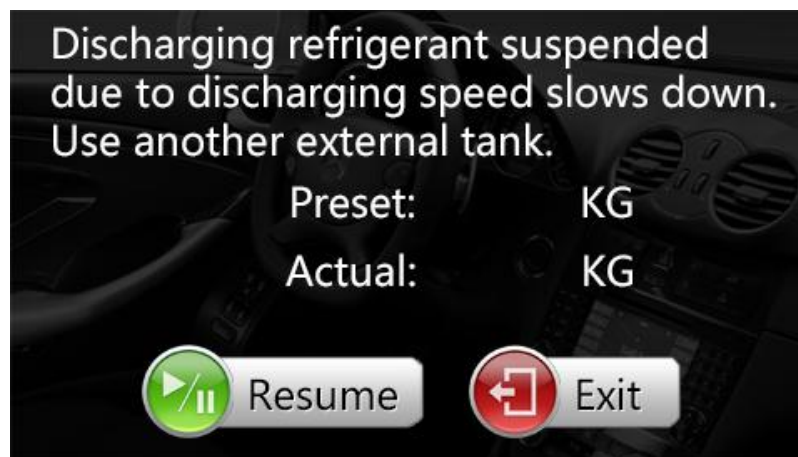
4. Set the amount you need to discharge.



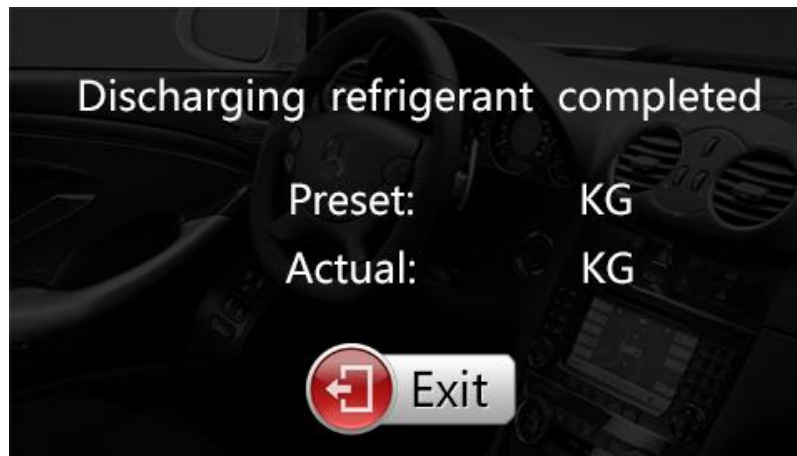
5.



6.If there is no space in the first tank, please change a new one.



6. Cleaning is done, please exit.



(2) Reset data of filter

The lifetime of filter is 200KG. After it has recovered 190KG, it will warn to change a new filter when you turn on the machine. After 200KG, you must change it. Otherwise, it will not work.



How to change a new filter:

(1) Open the cover and side cover, you can see the filter in black color, being next to the oil separator.



(2) At the top of the filter, use M16 spanner to solid the connector, and M21 spanner to loose the screw anti-clockwise:



(3) At the bottom of the filter, use M16 spanner to fix, M21 to loose the screw clockwise:

(4) Use M8 adaptor to loose the screw that used to fixed the filter.



(5) Take out the filter from the top.



6) Fix the new filter, and make sure arrow down.



(7) Use M8 adaptor to solid the screw anti-clockwise.

(8) At the bottom of the filter, use M16 spanner to fix the connector, and use M21 to tight the screw.

(9) At the top of the filter, use M16 spanner to fix the connector, and use M21 to tight the screw.

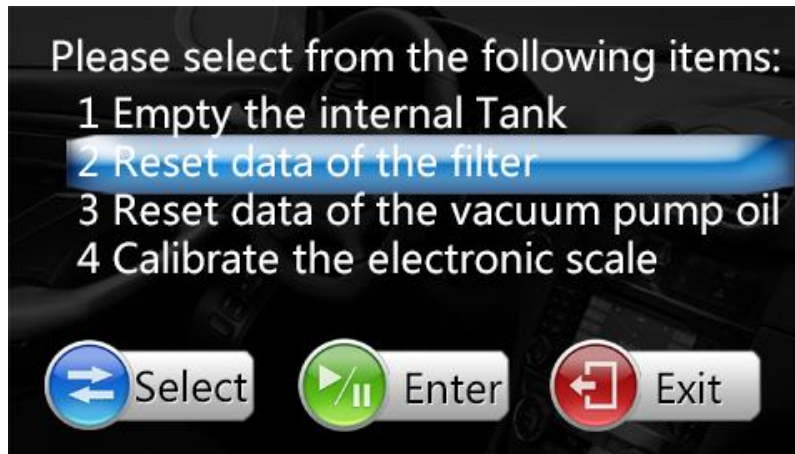
(10) After replacement, please enter “Maintenance” and reset the data of the filter.

Reset the data of filter:

1.



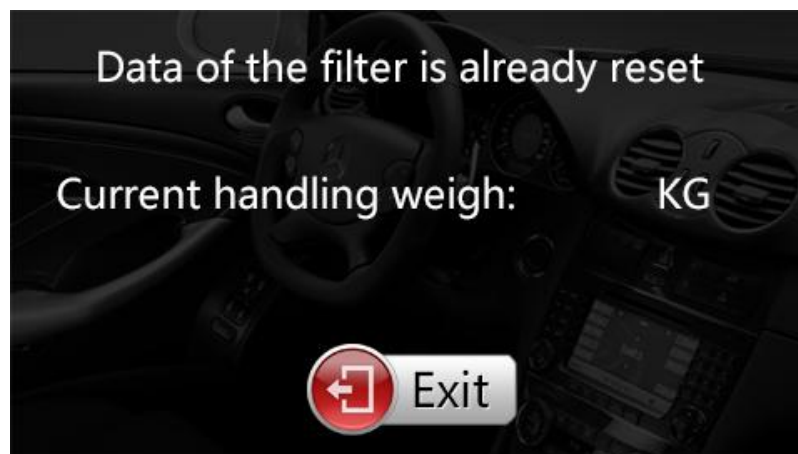
2.



3.



4.



(3) Reset data of the vacuum pump oil

In following cases, you need to change pump oil:

- (a) When the oil level is lower than minimum, please add oil. When it is higher than maximum level, please loose the screw and drain some oil.
- (b) The lifetime of pump oil is 150 Hours. When you have done vacuum to 150 hours, it will give warning to change the pump oil. Otherwise, vacuum process cannot be executed.



- (c) When the pump oil color changes, need to replace the oil.

(ATTNENTION: Must use the pump oil provided by the manufacturer)

Steps on how to change pump oil

:

- (1) Please vacuum 1 minute before changing the pump oil.
- (2) Pump position here



(3) loose the cover on top of pump.



Cover

(4) Get a bottle ready for the waste pump oil. Use tool to loose the screw under the pump.



(5) After draining the oil, tighten the screw.

(6) Use a funnel to help to fill the oil into the pump.



(7) When filling oil, make sure the oil level being correct.

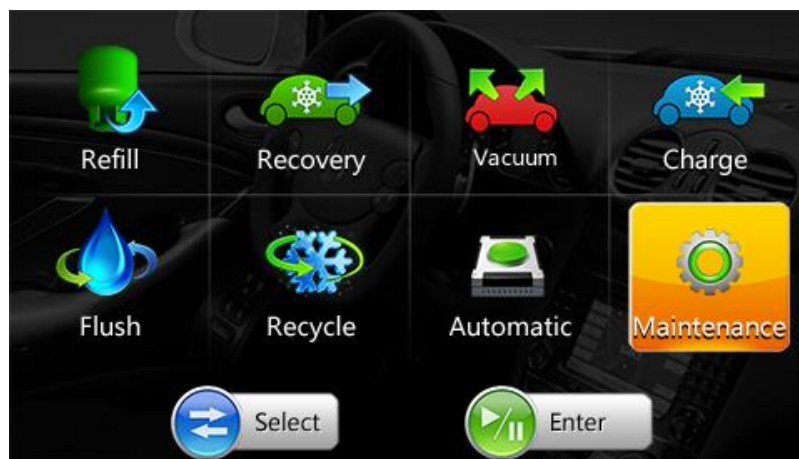


(8) Use a tool to tighten the screw on top.

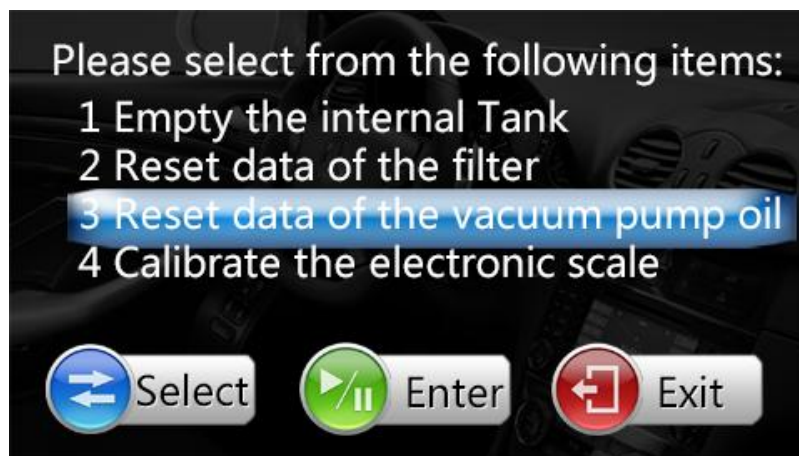
(9)) After that, reset the pump oil data. Please follow below steps.

Reset the pump oil data

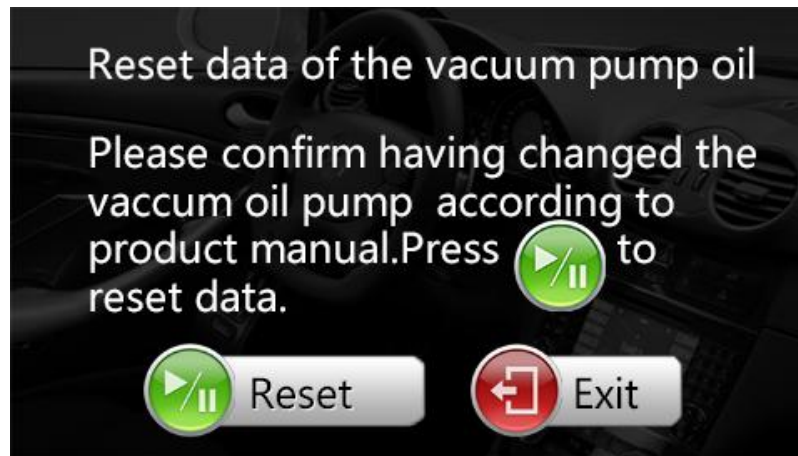
1.



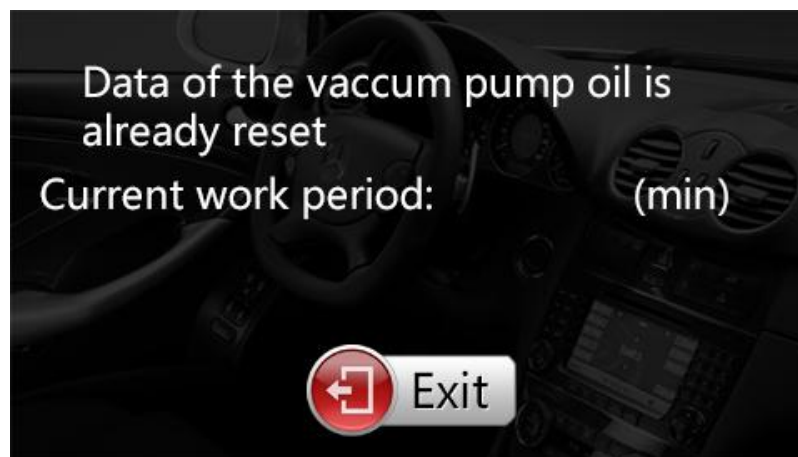
2.



3.



4.



(4) Scale Calibration

After replacing the storage tank, or the machine has been used for a long time, we can do calibration on the scale to ensure scale will be accurate, and the tank's weight will be correct.

Firstly, make sure the storage tank is empty or nearly empty, so we can do calibration.

Take off the tank

(1) Here is the tank position.



Storage tank

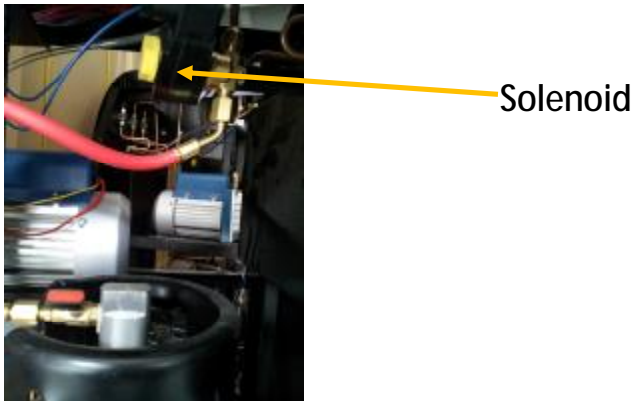
(2) Close the manual valves on top of the tank.



HP manual valve

LP manual valve

(3) Remove the yellow cover from the air releasing valve, and take the black valve out.



(4) Use a tool to loose the screws under the storage tank, so we can take the tank out.

(5) Put 7kg weight onto the scale tray

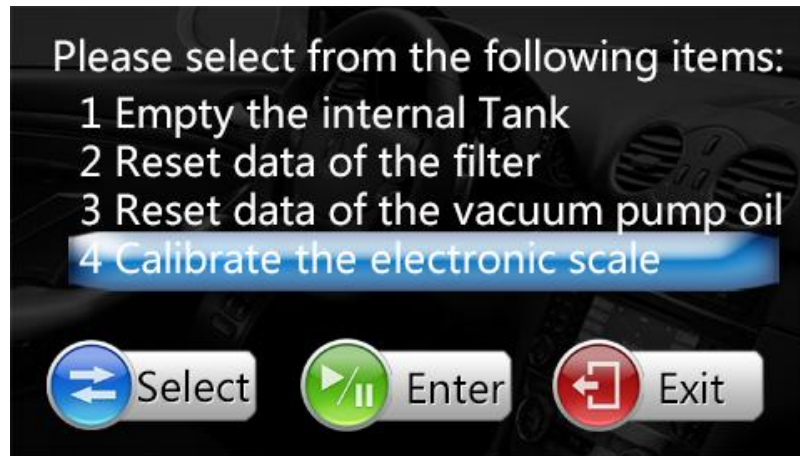


(6) Switch on the machine, and run the process of “Calibrate the electronic Scale”. Please follow the steps as below:

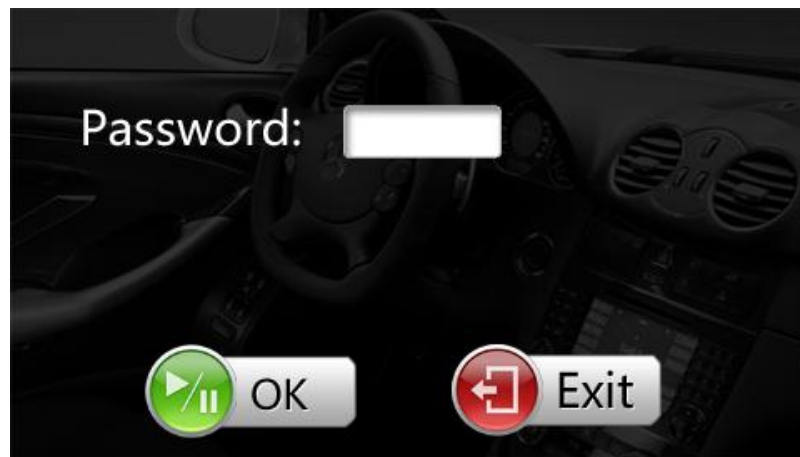
1.



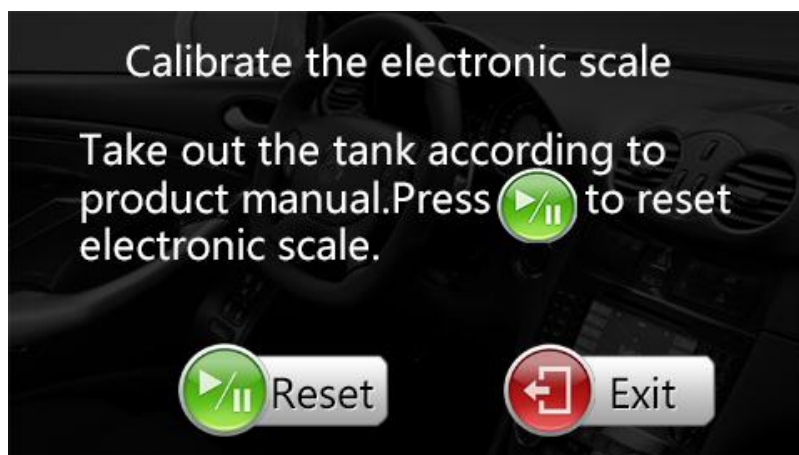
2.



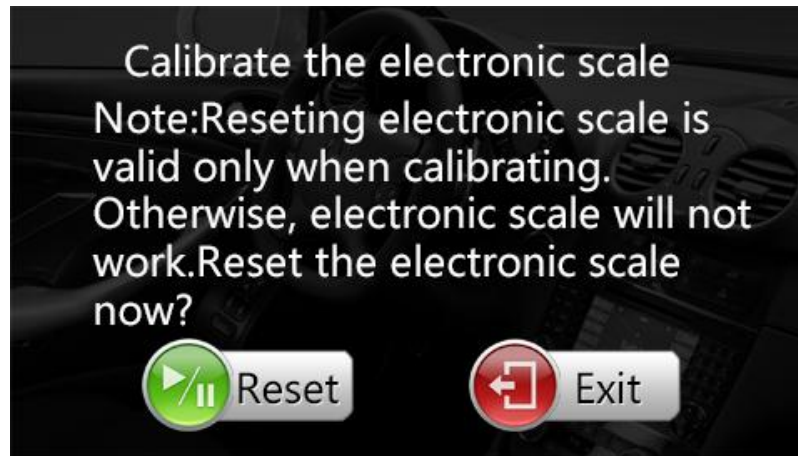
3. Please input the password. Ask for your distributor on the password.



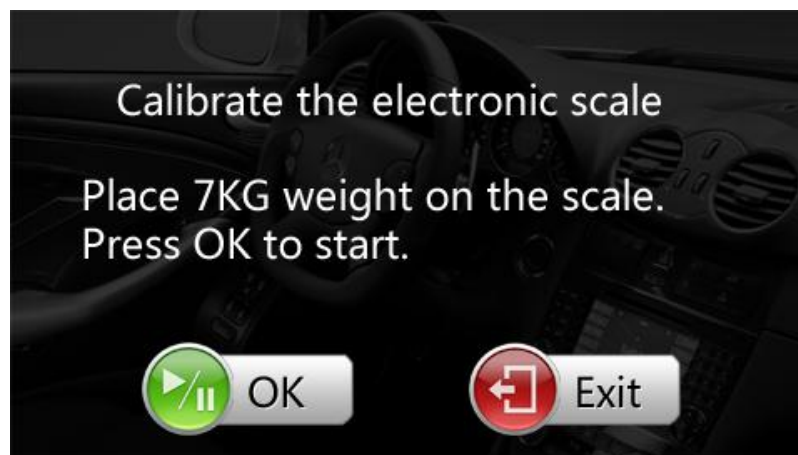
4. When you see this message, please follow the instructions to take out tank, then press



5.



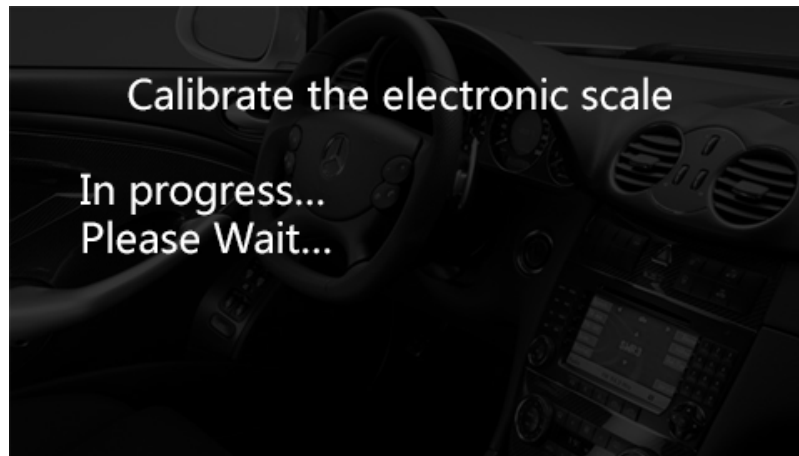
6.




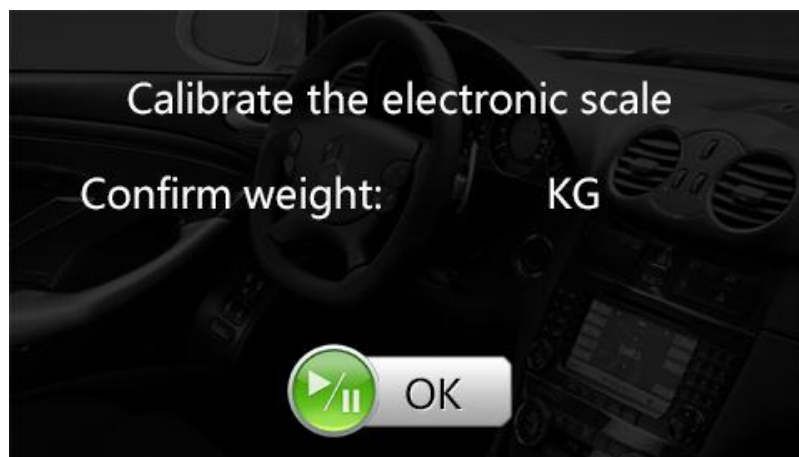
7. When users see below message, the users must make sure the operation is 100% proper. Otherwise, the calibration cannot be done.



8.



9. When you confirm the weight being correct, press  to continue



10.

