

# Automatic Transmission Cleaner and Exchanger

*ATF – 9800*

Operation Manual Book

## **1、 Safety Precautions**

- 1.1. Please read the following provisions carefully and fully understand it before use.
- 1.2. There must be fireproof and fire-fighting equipment at the workplace. Keep the working area in good air ventilation. Switch off the power supply and clean the machine when finish working at ordinary time.
- 1.3. Avoid direct sunshine on the machine. During operation, keep the hoses away from rotating elements and hot parts such as cooling fans, radiators etc.
- 1.4. Working sparks, smoke and fire are strictly prohibited near the machine.
- 1.5. Operator should wear goggles to prevent the liquid spatter into eyes.
- 1.6. When disconnecting any connector of the pressurized fuel pipe, wrap the connector with towel to prevent the fuel from spurting out.
- 1.7. Don't turn on and off the machine frequently. Start machine at least 5 min. later switch off the power.
- 1.8. The operator should be quite familiar with the shift of automatic transmission to avoid transmission damage caused by improper operation.
- 1.9. The machine should be placed vertically but not to be upside down.
- 1.10. When changing fluid, the operation should be performed by properly trained personnel. The quality of the selected ATF must conform to the direction as specified in the manual of the auto to be operated.

## **2、 Features**

- 2.1. Fully automatic operation. Adopt touch screen LCD display, automobile model database guide oil change process.
- 2.2 Color menu display.Optional printing function;
- 2.3 Oil amount parameters of transmission with built-in models is available for selection;
- 2.4.Automatic identification the oil flow direction with inlet or outlet.
- 2.5. Automatic identification of power supply positive and negative.
- 2.6. Filling of automatic transmission oil.
- 2.7. Automatic circulating cleaning and changing of new/used oil for AT.
- 2.8. Visual displays the AT oil pressure and the oil outlet pressure of the unit.
- 2.9. Intelligent electronic control the full automatic equivalent change of new/used oil.
- 2.10. Randomly set new and used oil volume.
- 2.11 .A key to zero of electronic weight.
- 2.12.Various special adapters are applicable to vehicle types made in Europe, America and Asia.
- 2.13.Effectively resolve the incomplete fluid exchange of manual operation.

## **3、 Specifications**

- 3.1.Power supply: DC12V
- 3.2.Maximum power: 150W
- 3.3.Pressure gauge: 0~150psi
- 3.4.Fluid outlet hose: 2.5 m
- 3.5.Fluid return hose: 2.5 m
- 3.6.Fluid draining hose: 1.5 m
- 3.7.Filter precision: 5μm

3.8.New/used fluid tank: 20L×2

3.9.Weight: 74Kg

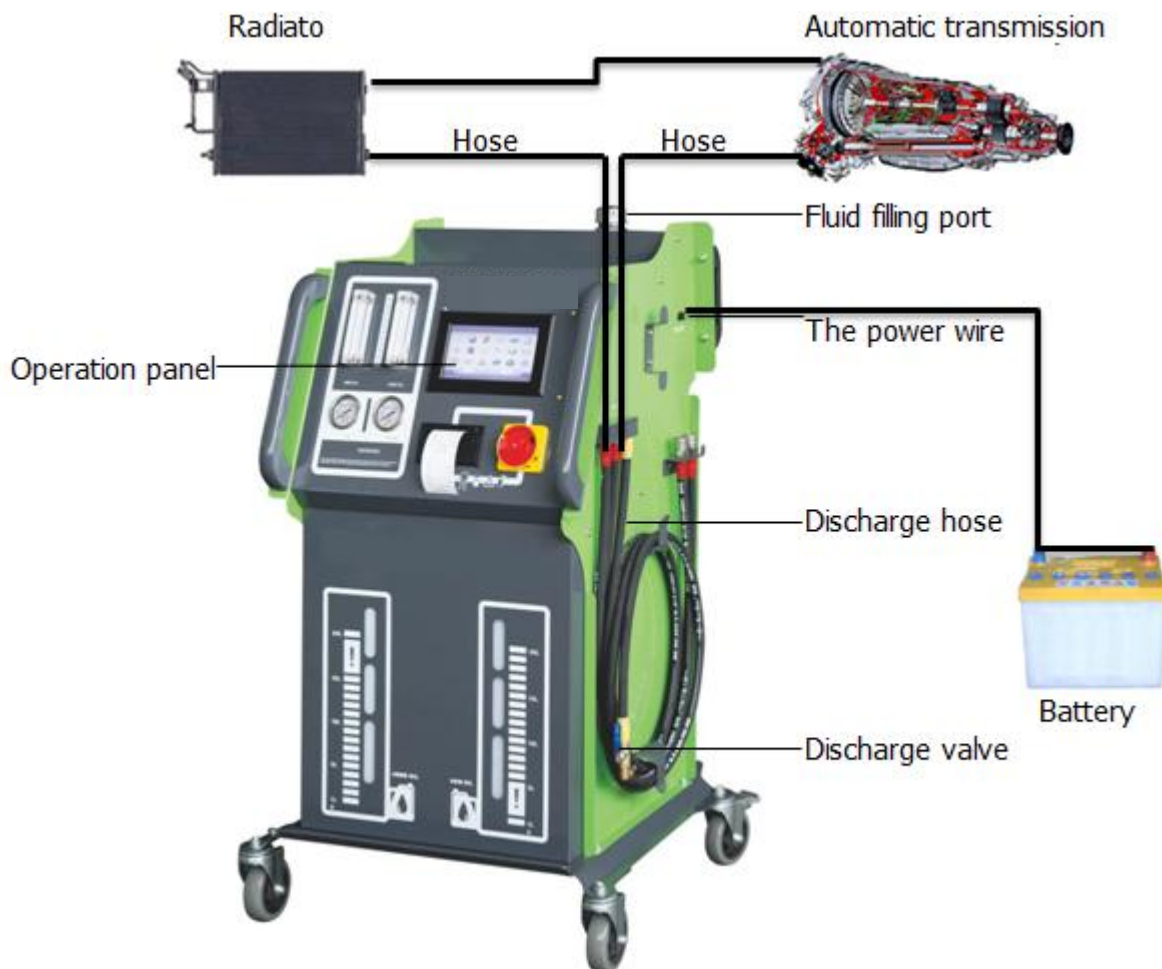
3.10.Size: 69×59×113cm

3.11.Ambient temperature: -10~+40°C

3.12.Relative humidity: <85%

3.13.Workplace requires flat

## 4、 Structure



## 5、 Functional instructions

### Operational considerations

- It is forbidden to use the "exchange and adding new oil " before connected to the car;
- It is forbidden to run "emptying the used or new oil tank" with the oil drain valve not opened;
- It is forbidden to add transmission oil or cleaning solvent from oil filling during the operation;
- It is forbidden to store the liquid in the used or new oil tank. The used oil should be transferred to other containers after working;
- It is forbidden to be placed in a horizontal site;
- During the process of exchanging ATF, in addition to the emergency, The engine should be avoided to start off and restart. Prevent excessive voltage fluctuation at the start of engine. So as to affect the equal precision of exchanging.

- During changing process, the operation should be performed by properly trained personnel.
- The filter that is equipped in the lower cabinet should be replaced with 20 cars and one change

## 5.1 Preparation before operation

### 5.1.1. Lift up the vehicle.

Lift up the vehicle and disconnect the radiator and transmission

### 5.1.2. Connect the hoses

- Remove off either piece hose between AT case and radiator;
- Locate a oil hose that is connected to the radiator and transmission at the most convenient location and then disconnect the adaptor. Find out a matched adaptor inside toolbox and connect it to the disconnected adapter;
- Connect the two hoses to the disconnected two ends of the hoses of transmission (no consideration of the fluid flow).

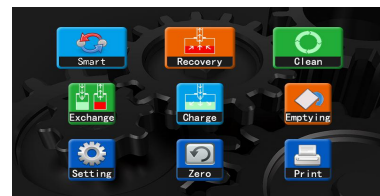
5.13. Power: Connect the power cables clamps to DC12v;

### 5.14. Check-up

Start the engine and ensure that there is no leakage in pipeline and the power of the unit is normal.

## 5.2 Equipment start-up process

Switch on the power switch. The screen appears



## 5.3 Functional Menu Guide

The following is the instruction for "Functional Menu".

### 5.3.1 ATF exchange

#### Set the oil change amount interface

##### 1).Enter directly from the data query interface.

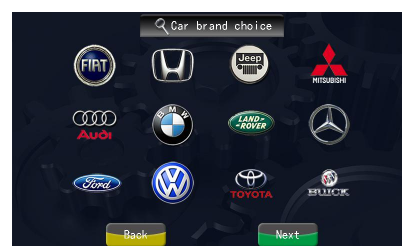
Follow the corresponding model to enter the main menu of the next interface.

Set equal exchange in this interface.

Press



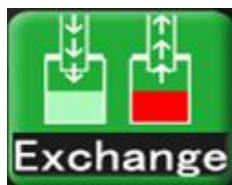
to choose oil volume



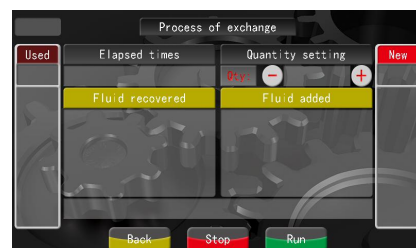
##### 2). After the data query, enter the oil change from the "equivalent exchange" interface.

Data query oil amount in this interface.

Press



to the next interface



Operation of the oil change is done after the oil change is set.

### 3).Intelligent exchange for oil change

Press



to follow the message



Set the cleaning time and oil change as required.

### Important Note

Check if the pipelines are well connected.

Oil level setup must NOT be greater than new oil filled level.

Press “Run” only after engine starts.

### Oil exchange in progress

Show statistics and status dynamically. Press “Stop” to pause oil exchange.

### Finish interface

Show dynamic status and available to perform next action.

### Troubleshooting

Problem may occur caused by the following reasons:

- Engine does not start
- No new oil is filled
- Pipeline is not connected
- Filling new oil during fluid exchange
- Machine shakes dramatically
- Moving new/used tanks

### 5.3.2 Add new oil

Press



to the next interface



When the oil in transmission is not enough, supply it with the desired amount of oil. Select this operation.

After adding the new oil, set the required oil amount in the interface and to run;

### Important Note:

Check if the pipelines are well connected.

Setup the quantity of new oil must NOT be greater than new oil filled level.

Forbidden to start the engine.

### Adding new oil interface.

Show statistics and status dynamically. Press “Stop” to pause.

### Finish interface

Show dynamic status and available to perform next action.

### 5.3.3 Recovery used oil

Press



to the next interface



When the oil in transmission is too much, decrease it with the desired amount of oil. Select this operation. Set the required decreased oil amount in this interface, start the engine and to run;

#### **Important Note:**

Check if the pipelines are well connected.

Engine must be started

#### **Recovery used oil interface.**

Show statistics and status dynamically. Press "Stop" to pause.

#### **Finish interface**

Show dynamic status and available to perform next action.

### 5.3.4 Empty new fluid tank

Press



to the next interface



Press



to the next interface



press "Run" to **Empty new oil tank**

Drain the oil out from the new oil tank after exchanging or cleaning. (There is damage to the weighing element with longer store oil and influence the weighing accuracy).

#### **Important Note:**

Confirm that the drain valve of the unit is opened;

The unit hose not connected with the car;

#### **Emptying new fluid interface.**

Show statistics and status dynamically. Press "Stop" to pause.

#### **Finish interface**

Show dynamic status and available to perform next action.


### 5.3.5 Empty used fluid tank

Press



to the next interface



Press  to the next interface



press “Run” to **Empty used oil tank**

Drain the oil out from the used oil tank after exchanging or cleaning.(There is damage to the weighing element with longer store used oil and influence the weighing accuracy).

### Important Note:

Confirm that the drain valve of the unit is opened;

The unit hose not connected with the car;

#### Emptying used oil interface.

Show statistics and status dynamically. Press “Stop” to pause.

#### Finish interface

Show dynamic status and available to perform next action.

### 5.3.6 Clean

#### 5.3.6.1 Fill detergent

Method 1: Directly added to the transmission (from dipstick port )

Method 2: Added to the unit(From the unit to the transmission)

Fill proper detergent from the fill port under the circumstance that there is no new oil in the new oil tank.

When the oil in transmission is not enough 1 liter, supply it to 1 liter. Select this operation.

Set amount of oil added as the amount of new oil display;

Without start the engine, press “Run” the detergent inside new oil tank will be filled into the transmission;

After the detergent is filled, Set “cleaning”

#### 5.3. 6.2 Clean

Press  to the next interface



With the state that the engine is running, the fluid will perform circulating in the machine.

### Important Note:

The detergent must be filled under CLEAN state.

After cleaning transmission, the amount of new oil inside the unit should be 2L more than that of the oil required by auto transmission.

#### 6.3.7 One button goes back to zero.



A) Function: when there is no oil in the new and used oil tank, the digital showed in LCD is not zero that means oil storage still in the new and used oil tank., this function is used to calibrate the weighing system;

2) Calibration: after entering the calibration interface, follow the instructions strictly.

### **Important Note:**

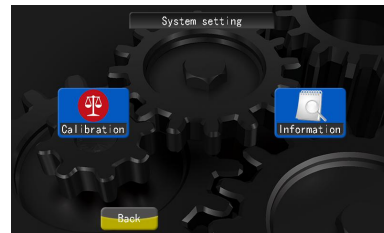
Be sure no oil in the new or used oil tank with function “One button goes back to zero” Otherwise the weighing system has a large deviation.

### **5.3.8 System setting**

Press



to the next interface



### **The new and used oil tank electronic scale calibration**

1) Function: when the measurement error of new and used oil exceeds 15%, calibrate the weighing system;

2) Calibration: after entering the calibration interface, operation the instructions strictly;

### **Important Note:**

- After oil exchange , check the oil level in transmission. For oil shortage, press Charge to increase, set oil amount first and RUN
- Pay more attention to change oil after clean
- When the machine is placed for a long time without usage or change other brand oil , add about 1 liter new oil into the machine to clean hoses with the function empty new oil tank;
- In order to oil change completely, the quantity of new oil inside the unit should be 2 liter more than that of the fluid required by auto transmission.
- After cleaning auto transmission, previous oil must be replaced by new oil with 2L more than required, in order to reducing fatigue on seal components.
- Do not add new oil from the new tank during the running period of exchange. Otherwise, the operation will result in unequal exchange . If there must be added the new fluid, do it after this exchange is completed!