

Automatic Transmission Cleaner and Exchanger

ATF – 9800L

Operation Manual Book

I 、 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. Keep 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.

II 、 Outline

The transmission fluid inside transmission will go bad after a period of usage of automatic transmission. If the transmission fluid can not be changed completely in time, it may cause the abnormality to the transmission. General auto transmission fluid changer can not control the filling quantity of the ATF as required, the excessive or shortage filling will cause the damage to auto transmission. The auto transmission changer can complete the flush and fluid exchange in 20 minutes for transmission, torque converter and radiator. The fluid exchange rate is nearly 100%.

III、 Features

- 3.1. Fully automatic operation. Big LCD screen display. .
- 3.2. Automatic identification and intelligent switch the in/ out oil flow direction.
3. 3. Automatic identification of power supply positive and negative.
3. 4 Filling of automatic transmission oil.
3. 5. Automatic circulating cleaning and changing of new/used oil for AT.
3. 6. Visual displays the AT oil pressure and the oil outlet pressure of the unit.
3. 7. Intelligent electronic control the full automatic equivalent change of new/used oil.
3. 8. Randomly set new and used oil volume.
3. 9 .A key to zero of electronic weight.
3. 10. Various special adapters are applicable to vehicle types made in Europe, America and Asia.
3. 11. Effectively resolve the incomplete fluid exchange of manual operation.

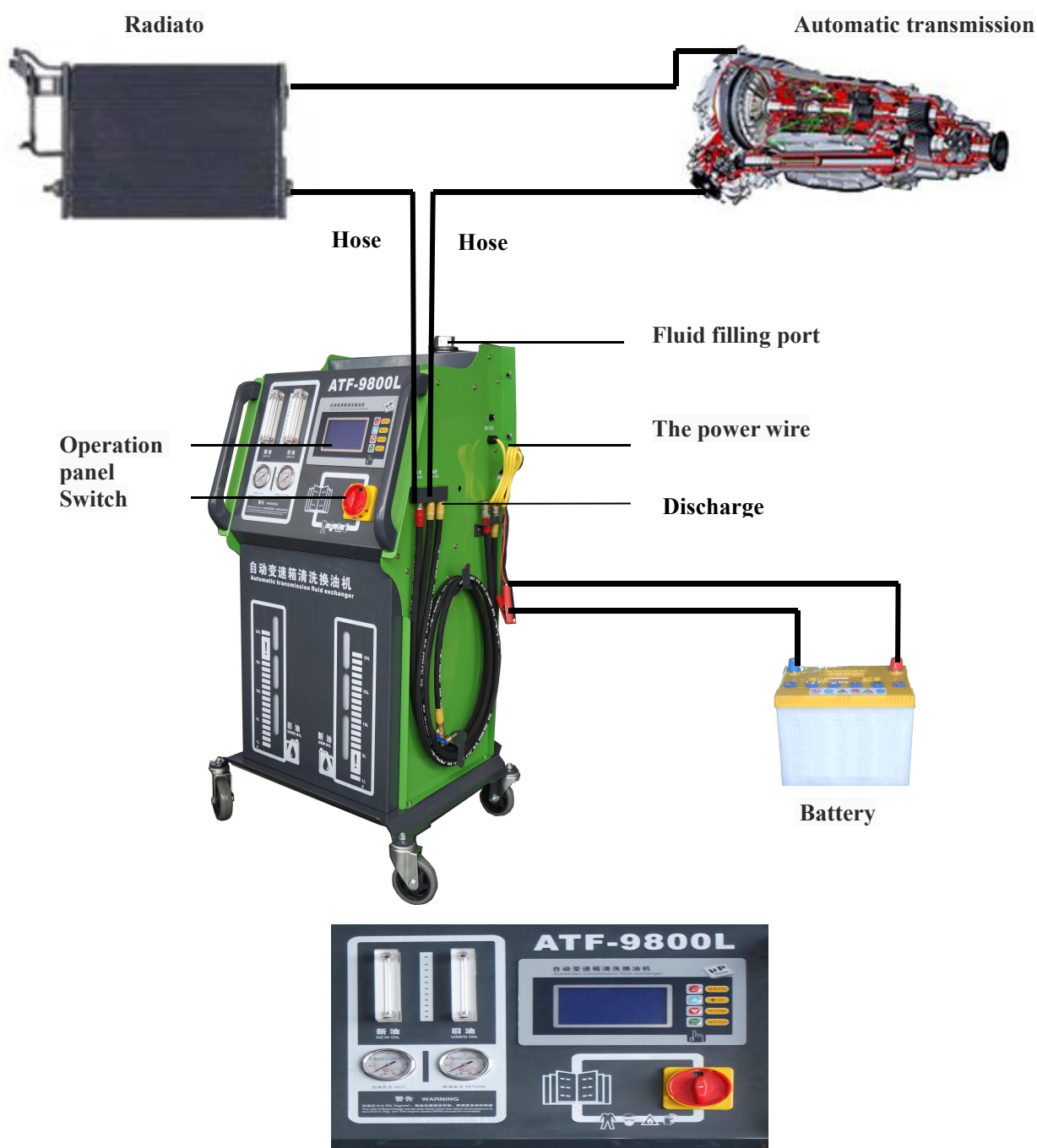
IV、 Specifications

- 4.1. Power supply: DC 12V
- 4.2. Maximum power: 150W
- 4.3. Pressure gauge: 0~150psi

- 4.4.Fluid outlet hose: 2.5 m
- 4.5.Fluid return hose: 2.5 m
- 4.6.Fluid draining hose: 1.5 m
- 4.7.Filter precision: 5μm
- 4.8.New/used fluid tank: 20L×2
- 4.9.Weight: 74Kg
- 4.10.Size: 69×59×103cm
- 4.11.Ambient temperature: -10~+40℃
- 4.12.Relative humidity: <85%
- 4.13.Workplace requires flat

V、Structure

5.1 External structure



5.2 Detailed operation panel function

Name or mark	Description
NEW	Observe the flow rate and compare the color of new and used fluid.
USED	
OUT PRESSURE	Display the fluid outlet pressure.
RETURN PRESSURE	Display the fluid pressure of AT radiator
▲UP	Move cursor to increase the value and its unit is Liter when the unit is in standby mode.
▼DOWN	Move cursor to decrease the value and its unit is Quart when the unit is in standby mode.
RUN	Confirm and run the function.
RETURN	Return to the parent menu

VI、 Functional instructions

Operational considerations

- It is forbidden to use the "exchange and adding new oil "function before connected to the car;
- It's forbidden to run "empty the used/ new oil tank" function with the oil drain valve not opened;
- It's forbidden to add automatic transmission oil or cleaning fluid from refueling during the work;
- It's forbidden to store the liquid in the used/ new oil tank. The used oil should be transferred to other containers after work to avoid the unequal precision of used/ new oil exchanged.
- Equipment must be placed in a horizontal site in case the pump sucks oil of the tank not thoroughly.
- 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.
- When changing fluid, 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

Preparation before operation

1. Lift up the vehicle.

Jack vehicle, driving wheels at least 200 mm from ground. Tighten the hand brake;

2. Connect the hoses

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

3. Power cables connection

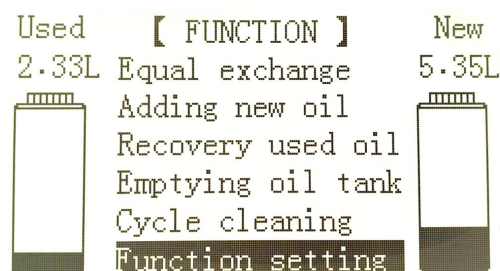
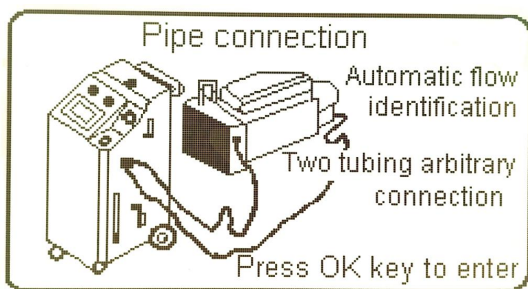
Connect the power cables clamps of the unit to the two poles of the vehicle battery (DC 12V, the unit will identify polarity automatically.);

4. Check-up

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

Equipment start-up process

Switch on the power switch. The screen appears



Functional Menu Guide:

In main menu, press “+” or “-” to option operations. Then press “OK” to next interface.

The following is the instruction for “Functional Menu”.

ATF exchange

Important Note:

- 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!

Set the oil change interface

This menu will appear after adding new fluid: **Equal exchange**

Setup fluid level as required.

Important Note:

Please check if the pipelines are well connected.

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

Press “OK” only after engine starts.

Oil exchange in progress

Show statistics and status dynamically. Press “OK” to pause fluid 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 old tanks

Adding new oil

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

Important Note:

Check if the pipelines are well connected or not.

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

Press “OK” only after engine starts.

Forbidden to start the engine.

Adding new oil interface.

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

Finish interface

Show dynamic status and available to perform next action.

Recycling used oil

When the fluid in transmission is too much, decrease it with the desired amount of fluid. Select this operation.

Set the required decreased amount of oil in this interface, start the engine and press OK to run;

Important Note:

Check if the pipelines are well connected.

Engine must be started

Recycling used oil interface.

Show statistics and status dynamically.

Finish interface

Show dynamic status and available to perform next action.

Empty new fluid 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;

Finish interface

Show dynamic status and available to perform next action.

Empty used fluid tank

Drain the oil out from the used oil tank after exchanging or cleaning.

(There ' s 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 fluid interface.

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

Finish interface

Show dynamic status and available to perform next action.

Circulating cleaning

Fill detergent

Method 1: Directly added to the **auto transmission** (From Dipstick port);

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

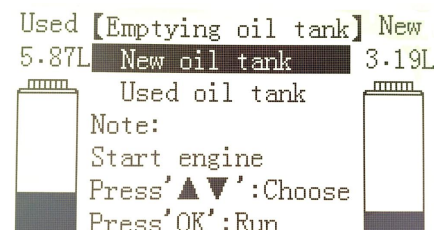
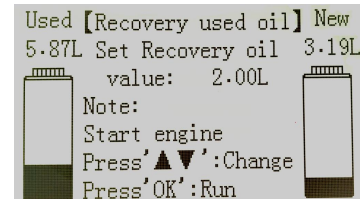
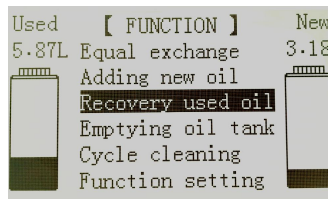
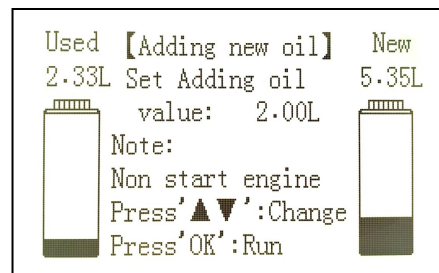
Fill proper detergent from the fill port under circumstance that there ' s no new fluid in the new oil tank.

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

Set increased automatic transmission fluid;

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

Without start the engine, press OK key the detergent inside new fluid tank will be filled into the auto transmission;



After the detergent is filled, Set “Circulating cleaning”

Circulating cleaning

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

Important Note:

The detergent must be filled under **Circulating cleaning** state.

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

One button goes back to zero.

When there's no oil in the new and used oil tank, the digital showed in LCD should be zero. If not, to calibrate the weighing system;

Important Note:

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

Function setting

Language setting: English

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, follow the instructions strictly;

Important Note:

Calibrate tool should be 5 kilos weights.

Don't go into the detailed step of calibration (without running calibration program).

The password is 8888 with entering the calibration interface.

According to the interface instruction, input the accurate calibration weights and follow to the steps strictly .

Troubleshooting

Check if the hose is well connected.

Check if the hose is removed.

Engine start or not

Drain valve open or not, set oil amount not exceed the rate amount of oil tank.

Be sure it's enough for added new oil amount.

Infinite variable speed (or CVT) transmission operation

Note: for infinite variable speed (or CVT) transmission, the operation method of AT fluid exchanging is quite different from mentioned above. It's must be as following step otherwise it will be damaged transmission:

1. Well connect the hose between transmission and machine. Add enough transmission oil inside the machine;
2. To the interface “Recycling used oil”, according to the capacity of the transmission oil, the decreased amount is set as: 1.5 liter for small transmission and 2 liter for large. Press the "run" button ;
3. Start the engine and stop reducing the amount of oil when the used oil is recovered. Shut off engine;
4. Then To the interface "add new oil". Set to increase the amount of oil according to how much used oil is recycled .Start the machine press the "run" button to increase the amount of oil (without start the engine); The machine stops working automatically to the set amount of oil;
5. Set the machine repeatedly to "recycle..." After that, again “add...” 3-5 times, complete the non-polar gearbox (or CVT) for oil change;
Process: first "recycle..." -again "add..." ---again recycle... "----again " add..." Several times;
6. Check the transmission oil quantity after finishing working. decrease more and fill reduction. Be sure the test line is no leaking,