

# GT-516

## Automatic Transmission Fluid Exchanger

### User Manual



## 1. Contents

- ◆ Precautions for safe use
- ◆ Product Overview
- ◆ Functional characteristics
- ◆ Operating steps
- ◆ Maintenance and upkeep of equipment
- ◆ Handling methods for common faults
- ◆ Connector and oil pipe configuration table

## 2. Precautions for safe use

- ◆ Before using this device, please read this manual carefully for correct operation;
- ◆ Use the equipment in a well ventilated area;
- ◆ Smoking is not allowed near the machine, and fire extinguishers should be prepared near the cleaning equipment;
- ◆ Do not use this device near heat and ignition sources. This device can only be used indoors to avoid exposure to sunlight or rain;
- ◆ During use, the hose should be kept away from the rotating parts and heating parts of the car, such as the radiator;
- ◆ Automotive engine exhaust pipes and water tanks and other components have high temperatures, and operators should stay away from heating components to prevent burns;
- ◆ When disconnecting the oil pipeline connector, cover the connector with towel to prevent Automatic transmission fluid from spraying;
- ◆ Users of this device must be proficient in shifting automatic transmissions to avoid damage to the transmission due to incorrect operation;
- ◆ When cleaning/changing oil, the driving wheels of the car must be in a suspended state;
- ◆ When the equipment needs to change the oil of the car, the operator must replace it by a professional. During the operation, special personnel must pay attention to the operation of the equipment. The quality of the selected Automatic transmission fluid must meet the requirements of the maintenance manual of the car being operated, otherwise the company will not bear any direct or indirect responsibility for the loss caused thereby.

## 3. Overview

GT-516 is a high-quality, user-friendly, and international market demand customized product produced by our company based on international advanced technology and years of experience. Its working principle is to use the measuring method of an electric scale to improve the accuracy of equal oil changes, with an error of no more than  $\pm 0.1L$ . The core part of the equipment is a combination of computerization and mechanization, To ensure a stable usage rate of 300 times per month without any faults, you choose a good helper for

deep maintenance.

## 4. Function Characteristics

- ◆ Fully automatic identification of oil inlet and outlet direction/intelligent conversion of automatic transmission oil inlet and outlet direction;
- ◆ High precision electronic scale detection;
- ◆ Fully automatic transmission oil replacement function;
- ◆ Fully automatic intelligent electronic control for high-precision equal exchange of new and old oil;
- ◆ Automatic transmission cycle cleaning function;
- ◆ Automatic filling of Automatic transmission fluid function;
- ◆ Automatic reduction of automatic transmission oil function;
- ◆ Visual display of transmission radiator oil pressure;
- ◆ Touch film display, user-friendly operation, convenient and practical;
- ◆ Various specialized connectors suitable for European, American, and Asian car series;
- ◆ Effectively solving the problem of incomplete manual replacement of gearbox oil;
- ◆ Improve the working performance of the gearbox and extend its service life.

## 5. Operating Steps

### 5.1 Display Screen

#### CLEANSING AND OIL EXCHANGING EQUIPMENT FOR AUTOMATIC TRANSMISSION



#### 5.1.1 Operation checklist description



Menu	Function Description
Cycle cleaning	Cycle cleaning of automatic transmission
Equal exchange	Replace the Automatic transmission fluid by the same amount
Add new oil	Increase the amount of oil in the automatic transmission
Drain the fuel tank	Empty the remaining new or old oil from the equipment
Recycling old oil	Reduce the amount of oil in the automatic transmission
New oil heating	Heat the new oil to ensure normal oil temperature
Additional features	Equipment electronic scale calibration parameter settings
Print data	Print oil change data
Data query	Query of corresponding fuel change quantity and vehicle model data

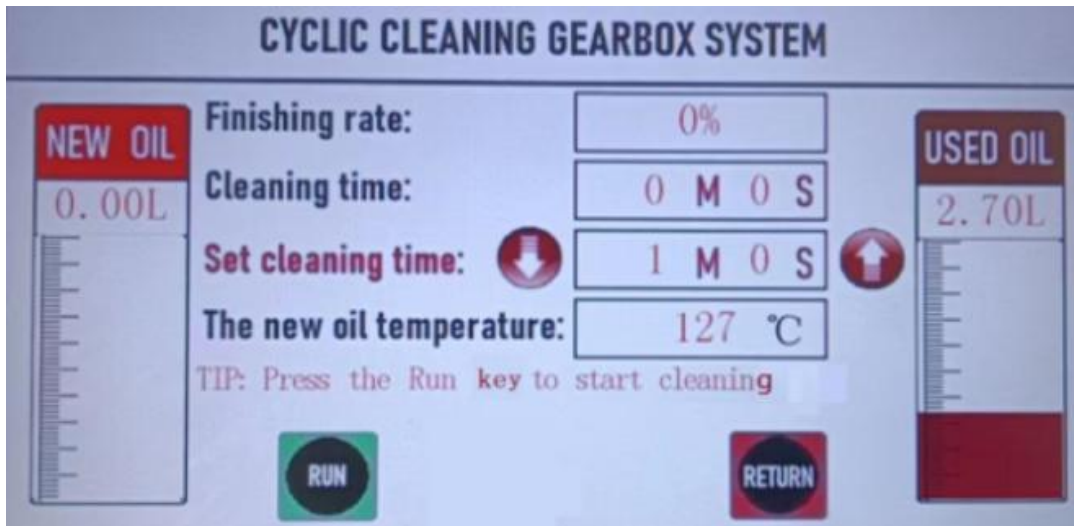
### 5.1.2 List items and preparation work before operation

- ◆ When the equipment is running, it should be placed in a horizontal position to prevent the equipment oil pump from not being able to clean the oil in the tank;
- ◆ During the process of equivalently replacing automatic transmission oil in the equipment, except in emergency situations, it is necessary to avoid turning off the engine and restarting it to prevent excessive voltage fluctuations during engine startup, which may affect the equivalently accurate measurement;
- ◆ During the oil change process of the car, personnel need to monitor the replacement situation.
- ◆ Lift the car: reliably lift the car to make the driving wheels hang in the air;
- ◆ Connect the pipeline: Find a convenient oil pipe connecting the automatic transmission and radiator in the car for disassembly and assembly, and find a connector connection that matches the removed connector from the connector box;
- ◆ Oil pipe connection: connect the two oil pipes on the equipment with the two ends of the folded automatic transmission oil pipe (regardless of its flow direction);
- ◆ Power connection: Connect the device power supply to AC-220V;
- ◆ Check the pipeline and power supply: Start the engine, confirm that the pipeline connection is reliable and there are no leaks, turn on the equipment power switch, and confirm that the equipment power supply is normal.

## 5.2 Specific operating steps

### 5.2.1 Cycle cleaning

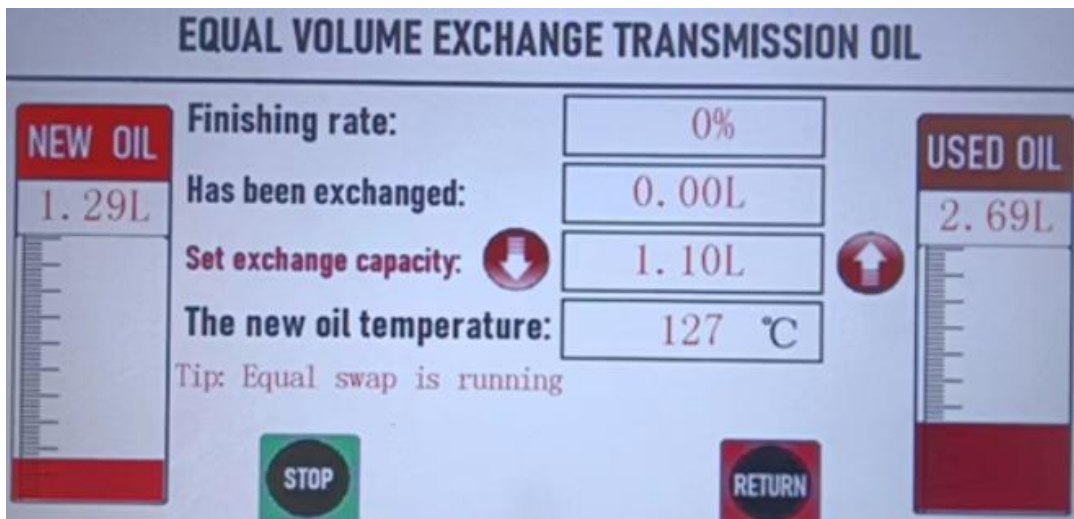
- ◆ When preparing for the automatic transmission cycle cleaning operation, start the engine idle running equipment and select the cycle cleaning start timer.



- ◆ When the engine is running, select cycle cleaning and start timing. The automatic transmission oil starts to circulate through the equipment, and the cleaned impurities are filtered through the equipment filter. To speed up the cycle speed, gear shifting can be carried out according to the situation (you can choose to stay for about one minute each time you shift, and when working in high gear, the fuel door allows the vehicle speed to reach over 60 kilometers per hour to ensure cleaning quality)

- ◆ After about 10 minutes of cyclic cleaning, the transmission oil replacement step can be started

### 5.2.2 Exchange transmission oil



- ◆ Add new Automatic transmission fluid to the equipment, display the added oil amount, and set the delivery amount.

- ◆ Start the car and heat up the gearbox to normal oil temperature; (This step is omitted after cleaning);

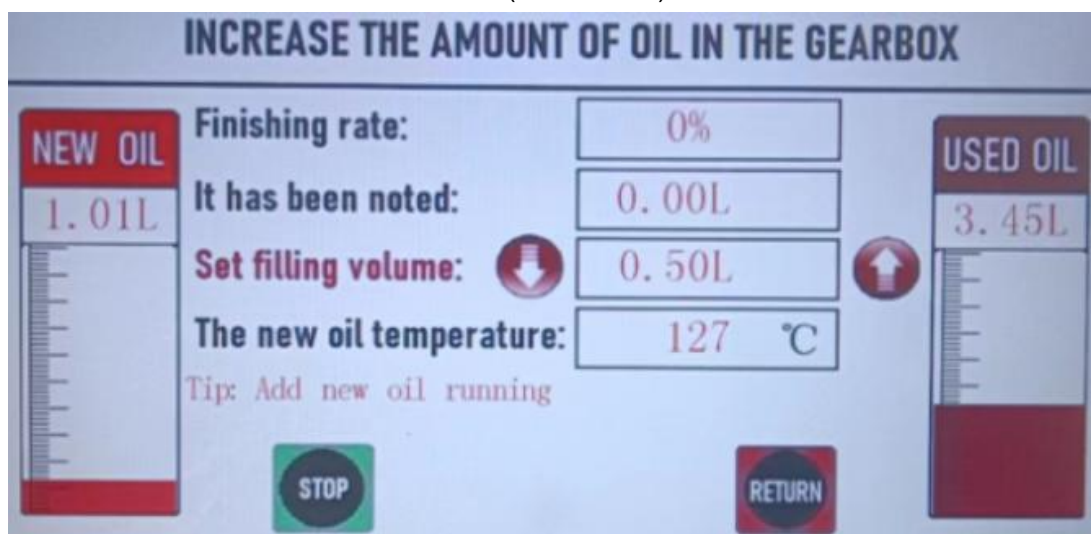
- ◆ Set the replacement amount, set the exchange amount based on the amount of new oil added, and adjust it by pressing the ▲▼ button;

- ◆ Press the RETURN button to replace the transmission oil. After the replacement is completed, the device will automatically enter a cycle state and the LCD screen will display the completion,
- ◆ Although the equipment can ensure accurate and equal replacement, due to the possibility that the automatic transmission oil level may not be within the normal range before replacement, please check the transmission oil level after replacement. If it is not within the standard range of the oil dipstick or oil observation hole (please refer to the standards in the car maintenance manual), use the increase or decrease oil function to adjust the automatic transmission oil level to the standard level.
- ◆ Restore the transmission heat dissipation oil pipe and start the engine, check if there is any oil leakage in the car pipeline.

**Tips:**

- ❖ When changing gears, it is necessary to switch between different gears, depending on the situation. Each shift should be stopped for about one minute. When working in high gear, the fuel door should increase the speed to over 60 kilometers per hour, Only then can the Automatic transmission fluid of the high gear control oil circuit be replaced (after the process is completed, the ABS fault light of the vehicle equipped with electronically controlled ABS may light up, because after the vehicle is lifted, the ABS wheel speed sensor of the drive wheel detects that the speed of two wheels exceeds the normal range, which is normal. After the oil change is completed, the fault code can be cleared according to the normal code elimination procedure if necessary).
- ❖ In order to ensure the quality of replacement, the new oil in the equipment should be 2-3 liters more than the total oil in the car transmission. It is prohibited to add oil to the equipment during the start-up and oil change process.

**5.2.3 Increase the transmission oil level (add new oil)**

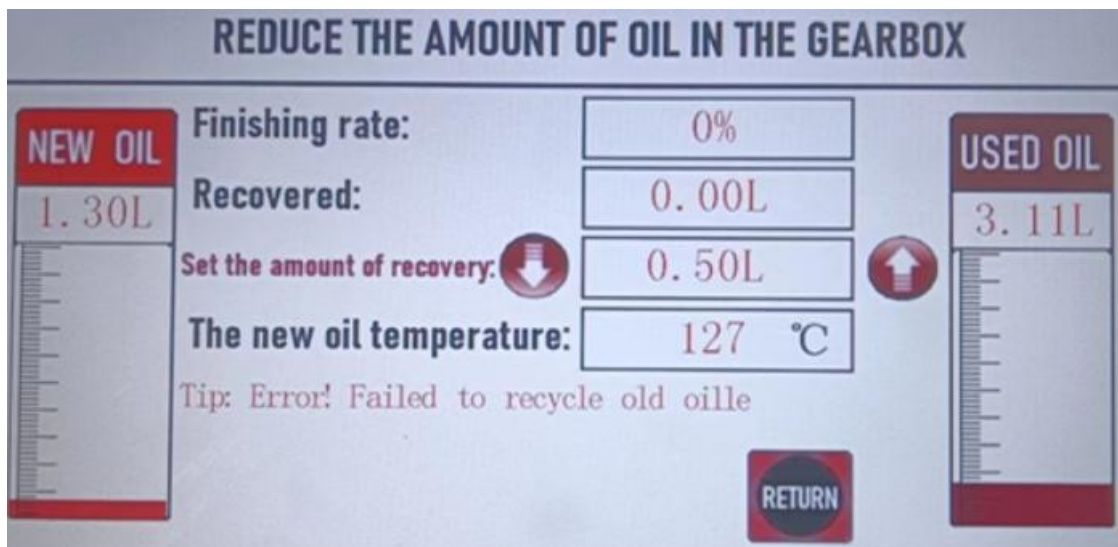


- ◆ This operation can be selected when it is necessary to increase the oil level

of the automatic transmission or fill the transmission with new oil;

- ◆ Select the function of adding new oil, adjust the required amount with the ▲▼ button, and press the **RETURN** button to increase the transmission fluid level. The specific amount is subject to actual demand.

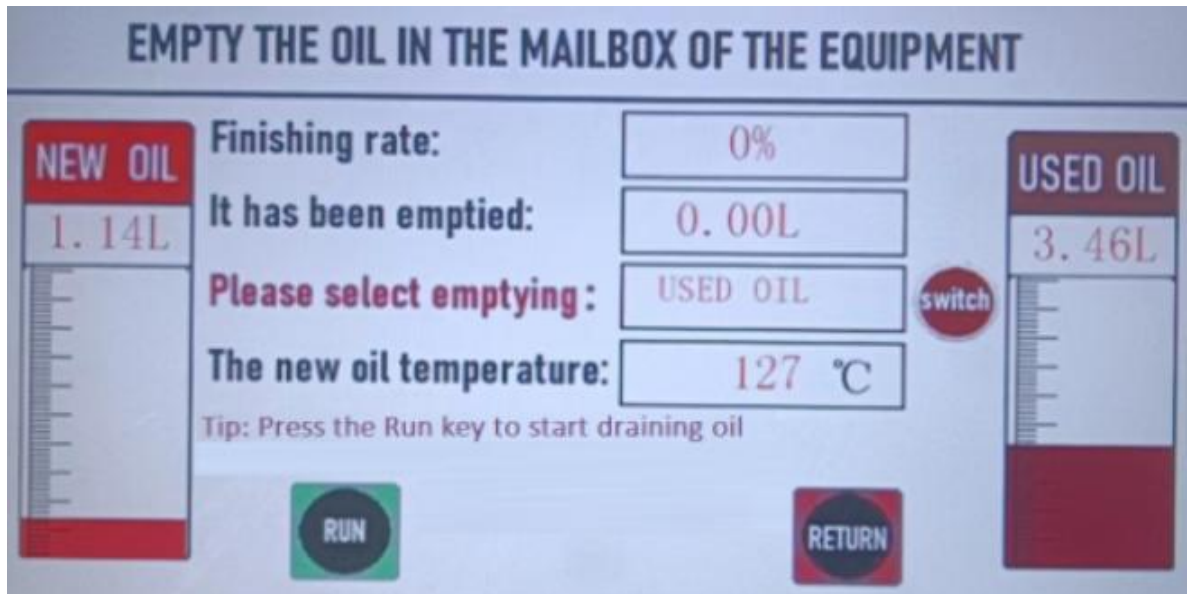
#### 5.2.4 Reduce the transmission oil level (pump back old oil)



- ◆ If the amount of Automatic transmission fluid oil is more than the standard during the test, it is necessary to reduce the amount of oil in the transmission (reduce the transmission oil level);

- ◆ Select the function of recycling old oil, press the ▲▼ button to adjust the required reduction, and press the **RETURN** button to run, which can cause the transmission fluid level to decrease.

#### 5.2.5 Empty the new oil from the equipment



- ◆ Confirm that the oil pipe is disconnected from the vehicle;
- ◆ Press the **RETURN** button to run the equipment and empty the new or old oil inside.

## 6. Maintenance and upkeep of equipment

- ◆ When the equipment is not frequently used, it is necessary to wrap the oil pipe and power cord on the right side of the chassis to prevent wear and detachment of the oil pipe and power clip;
- ◆ Timely clean up the old oil in the old oil drum and keep the new oil drum clean;
- ◆ After each operation and storage of the equipment, the oil discharge pipe of the equipment should be cleaned to prevent waste oil from flowing out
- ◆ Regularly clean the impurities on the filter screen inside the dispensing bottle;
- ◆ The oil tank used on the equipment needs to be replaced every 30 vehicles cleaned.

## 7. Common troubles treatment

### 7.1 During equal exchange, old oil can be returned, but new oil cannot be added

Reason analysis:

- ◆ New oil can be added separately on the display screen, and there is an air pump idling in the pipeline. If adding new oil is normal through separate operation, proceed to the next step of operation;

### 7.2 Inaccurate exchange of equal quantities

Reason analysis:



- ◆ During the use of the equipment, due to uneven ground, the electronic scale may not be accurate during the pushing and pulling process, resulting in a significant difference in the amount of oil added and displayed.
- ◆ Enter the additional settings interface to calibrate the electronic scale.