



User Manual

ATF-50DT



Automatic Transmission Oil Change Machine
(12V Electric)

Security Not

1. Before using this device, please read the User Manual carefully for proper operation..
2. Please don't smoke during use of the device.
3. Do not use this device in the vicinity of heat and ignition sources..
4. The device may only be used indoors to avoid exposure to sunlight or rain.
5. Turn off the power after use.
6. In the course of use, the hose should be kept away from rotating part and fever part (such as radiator) and so on.
7. To maintain good indoor ventilation and wear protective glasses、mask 、 protective clothing during a operation, because the automobile exhaust contains a variety of toxic or harmful gases.
8. Automobile engine exhaust pipes and tanks and other components at high temperature, the operator should be away from the heating means to prevent burns.
9. Disconnect oil line connectors using a towel to cover the joints, prevent automatic transmission oil spray.
10. The device is running, do not let children near or close to the device..
11. This device should be placed vertically upwards, do not upside down or sideways.
12. The device must be operated by professionals, someone must pay attention to the operation of device operation. Quality selection of the the ATF must be operated in line with the requirements of car maintenance manuals, otherwise the company does not assume any direct or indirect responsibility for the loss or damage.

Automatic Transmission Oil Change Machine



- | | |
|-----------------------|-------------------------|
| 1. New Fluid Cycle | 2. Fluid Pressure |
| 3. Used Fluid Cycle | 4. Oil Filler |
| 5. LCD screen | 6. ESC |
| 7. Up “Δ” | 8. Down “▽” |
| 9. Enter (OK) | 10. DISCHARGE FROM TANK |
| 11. DRAIN TO THE TANK | 12. DRAIN OUT |
| 13. Power Cable Clip | 14. Power Switch |
| 15. FUSE | |

1. Summary

ATF-50DT is a kind of maintenance equipment about automatic transmission with great performance. It can complete the job of cleaning the automatic transmission and ATF equivalent replacement conveniently, quickly and accurately. The LCD operator panel provides a very friendly platform to clients. Graphic simulation of oil tank can display the oil level in new and old oil tank accurately, vividly in real time; Accurate equivalent real-time control scheme can guarantees the accuracy of equivalent replacement front and back. It can automatically complete the oil change in the transmission in a very short time. It is an essential equipment to improve transmission working performance and maintain transmission deeply.

2. Features

- Automatic gearbox to complete the replacement of old and new oil function ;
- Automatic type Electronic control of old and new oil exchange the same amount of precision ;
- Automatic transmission cycle cleaning function ;
- Automatic filling ATF function ;
- Automatic reduce ATF function ;
- Gearbox oil radiator visual display ;
- LCD display, user-friendly operation , convenient and practical ;
- Variety of special fittings for Europe, the Americas , Asia cars ;
- Effective solution to replace the manual gearbox is not complete problem ;
- Improve transmission performance ;
- Extend transmission life

3. Specifications

- Voltage: DC12V/220V
- Max Power: 150W
- Environment Temperature: -10~+40°C
- Relative Humidity: <85%
- Pressure Gauge: 0~150psi
- Filter Accuracy: 5μm
- Oil Tank: 20L×2
- Equivalent Replacement Error: ±100ml
- Noise: <50db

4. LCD screen Item

Menu Item	Function Description
1. Circular Cleaning	Cleaning the transmission
2. Equate Exchange	Transmission oil equate exchange
3. Charge New Oil	Increase the transmission oil
4. Recovery waste oil	Reduce the transmission oil
5. Drain Fuel Tank	Drain the waste or new oil from transmission
6. System Set	To modify system parameters, such as correction of electronic scale or adjust contrast

5. Operation Notice

1. It is prohibited to add the oil or detergent from fuel filler when the machine is in operation.

2. New or old oil is prohibited retained in the tank When device stored. The old oil after work is completed should be immediately discharged into another container, so as not to affect the accuracy of the device equal amount of exchange.
3. The machine should be placed in a horizontal position when it is in usage to prevent the pump from suctioning the unclean oil inside the oil tank.
4. Device in the equate amount of ATF exchange process, you should avoid restarting the engine stall except in an emergency to prevent the engine starting voltage fluctuation is too large affecting the accuracy of the same amount of exchange.
5. Personnel should be required to monitor the process of oil change.

6. Operation Step

1. Operation Preparation

- 1) The car rises, make the drive wheel suspended.
- 2) Find out a ATF cooling pipe that is easily removed, and remove the connector. (Because of constantly updated models or car joint position is not enough, there are some models can't match the fittings connector. The fitting connector can not be guaranteed with a 100% match with the car connector. If need, self-processing or contact us.)
- 3) Find the suitable connector from the toolbox, connect (red & blue) inlet and return oil pipe to the two ends of removable cooling pipe..
- 4) Clamp power line to battery according to the cathode and anode.
- 5) Starting the engine, confirm oil pipe joint no leakage.
- 6) Turn on power switch, confirm the normal power supply

2. Filling detergent and transmission oil

1) Filling detergent

After confirm the new fluid tank is empty, filled the detergent from the liquid inlet.

Note: If use a concentrated detergent, it is preferably that directly fill into the auto

gearbox. If can't, dilution of 1L transmission oil and fill into machine, then clean.

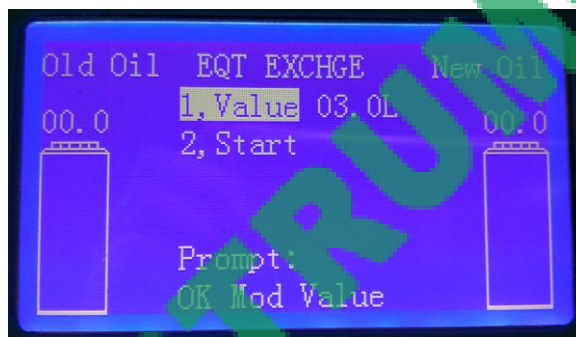
2) Charge Transmission oil

Fill the new oil from the liquid inlet before charge. And in general, now oil added 30% more than the old oil.

3. Cycle Cleaning

1) Select the "equat exchange" on the main menu, press "ok" key, set the desired does through "Δ" "▽" keys.

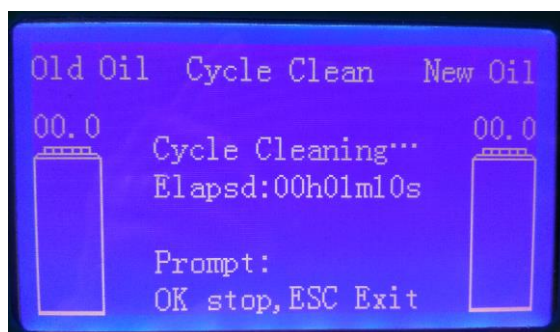
2) Press "OK" to save, then select "start", and press "OK" again. This step is that add the detergent to the transmission and replace the same dose of the old oil.



3) After adding the detergent, in the engine operating conditions, press "ESC" key return to main menu, select "cycle cleaning", then press "OK" key to start cleaning. In the cleaning process, the old transmission oil will be eliminated the impurities by filter.

4) In speed up to cycle cleaning, can operate in gear. (Each shift gears can stay for a minute or so. In order to ensure the quality of the cleaning, accelerated to 60km/h or more, when working in high gear)

5) After about 15 minutes cycle cleaning, turn off vehicle engine and press "OK" key to stop cleaning.



4. ATF exchange equal amounts

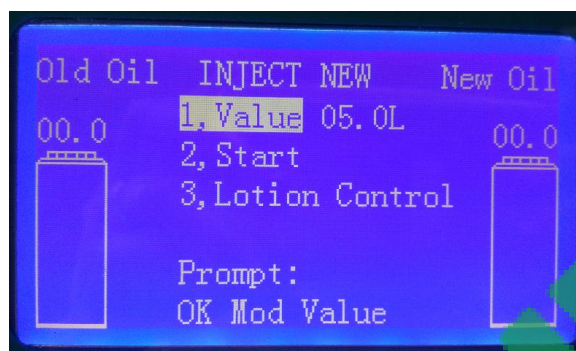
- 1) In ensuring the new oil tank is empty, then add the new transmission oil to the new oil tank. through dosing port.
- 2) Turn on vehicle,
- 3) Select the “equate exchange” on the main menu, press the “Δ”“▽”keys to adjust the amount of automatic transmission fluid, press “ok” key to save, select “start” to start work.
- 4) After the exchange is completed, buzzer alarm, the LCD display completed. If the old oil tank without oil return within 40 seconds, the machine will stop working, check tubing connection with automatic transmission.
- 5) Although the machine can ensure exchange for a equate amount, but the automatic transmission fluid level may not be within the normal rang before exchange. So check the transmission oil level after exchange, if they are not within the standard rang of dipstick or oil sight glass (please refer to the Car Maintenance Instructions Standard), select the increased oil or reduce oil up to standard.
- 6) Recovery the ATF cooling pipe.
- 7) Start the engine and check whether the car pipeline leakage.
- 8) Each shift gears can stay for a minute or so. In order to ensure the quality of the cleaning, accelerated to 60km/h or more, when working in high gear. (After the process is complete, the ABS Fault lights of vehicles which has Electronically controlled ABS is possible to light up, that is normal phenomenon. That is due to since the vehicle is lifted, drive wheel ABS speed sensor detects a 2 speed outside the normal range. After the oil change is completed, under the circumstances there is need, you can eliminate the fault code according to the normal eliminate code program.)
- 9) In order to ensure the quality of exchange, the oil inside the new tank should be more than transmission exchange.

5. Increase the automatic transmission fluid level.

(when need to improve the automatic transmission fluid level, this operation can

be selected)

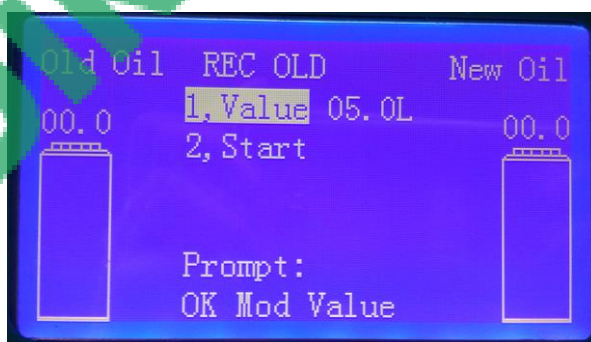
Select “add new oil” on the main menu, press the “Δ”“▽”keys to adjust the amount of automatic transmission fluid, select “start” and press “OK” key, then running can increase the fluid level.



6. Reduce the automatic transmission fluid level.

(when need to decline the automatic transmission fluid level, this operation can be selected)

Select “recover old oil” on the main menu, press the “Δ”“▽”keys to adjust the amount of automatic transmission fluid, select “start” and press “OK” key, then running can decline the fluid level.

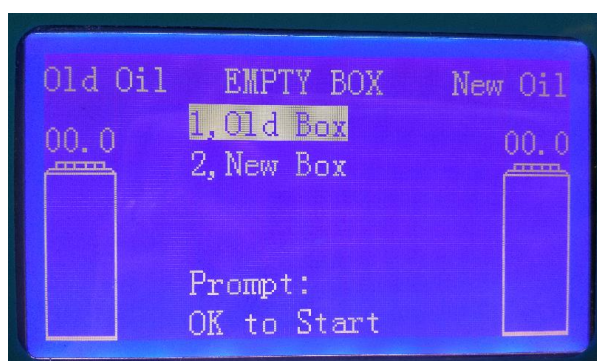


7. Drain Oil Tank

1) Insert the transparent tube into “Drain Out”, the other end into the oil barrel; Select “Drain Oil Tank” on the main menu, press ”OK” key to choose new or old oil tank be drained.

2) Drain old oil tank, select “Old tank”.

3) Drain new oil tank, select “new tank”.



8. System Set

- 1) The new oil tank calibration. Select "calibrate new oil tank", press "OK" key, follow the step 1 instructions. Set reference oil liters(5L or 10L), press "OK" key into step 2, press "Δ"forced drain new oil tank, autostop, press "OK" key into step 3, confirm no oil in tank and press "OK" key into step 4, add oil according to the reference oil liters, press "OK" key to complete the new oil tank calibration.
- 2) The old oil tank calibration. Specific operation, please reference "New Oil Tank Calibration"
- 3) Display contrast adjustment, adjusting the contrast changes the display brightness.
- 4) Language setting. Press "OK" key to Chinese-English switch.

7. Maintenance

1. Note that whether connector leakage when exchange.
2. Emptying the tank when end operation, in order to protect non-working electronic scale is unloaded.
3. Keep new oil tank clean.
4. If need to clean the transmission, please use the recommended detergent to avoid damaging the valve、 seals tec.






























8. Important component failure judgment

1. Switch valve: The solenoid valve will move when in an energized, if there is not, the solenoid valve is damaged.
2. Oil pump: The oil pump will rotation when in an energized, if there is not, the oil pump is damaged.

3. Circuit fault: No display, operation no action.
4. Liquid level sensor: Level unresponsive.

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ATF-50DT Special Connector Group

Serial No.	Appearance	Quantity	Serial No.	Appearance	Quantity
TF-30 01		1	TF-30 16		1
TF-30 02		1	TF-30 17		1
TF-30 03		1	TF-30 18		1
TF-30 04		1	TF-30 19		1
TF-30 05		1	TF-30 20		1
TF-30 06		2	TF-30 21		1
TF-30 07		1	TF-30 22		1
TF-30 08		1	TF-30 23		1
TF-30 09		1	TF-30 24		1
TF-30 10		1	TF-30 25		1
TF-30 11		1	TF-30 26		1
TF-30 12		1	TF-30 27		1
TF-30 13		1	TF-(30 28~30 31)		4
TF-30 14		1	TF-30 32		1
TF-30 15		1			