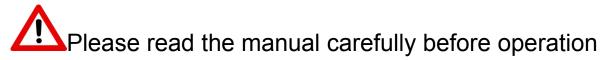
A Device For Oil Change In Gear Boxes

Operating instructions

Model : GD-332



This manual contains all the important warning information, recommendations, assembly instructions, operation and service procedures

We advise to keep the Operation Manual together with the purchase invoice.

PRODUCT INFORMATION

Record the serial number and year of manufacture of this unit for future reference. Refer to the product identification label on the unit for information.

Serial Number:

Year of Manufacture:

Keep the Operation Manual for future use, in a safe and dry place.

DISCLAIMER: Information, illustrations, and specifications contained in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without obligation to notify any person or organization of such revisions or changes. Further, producer shall not be liable for errors contained herein or for incidental or consequential damages (including lost profits) in connection with the furnishing, performance, or use of this material. If necessary, obtain additional health and safety information from the appropriate government agencies, and the vehicle, refrigerant, and lubricant manufacturers.

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Warning Information Related To Safety – Safety Measures

Note: In order to reduce the risk of injuries and material damage, always follow basic safety rules, when using the device. It is recommended to read the Operation Manual, before the first activation of the device.

- 1. Keep the workplace clean and tidy: Messy workplace may result in injuries.
- Pay attention to the working conditions in a particular area: Do not operate electric machines and equipment in humid or wet places. Do not expose such equipment to rain. Provide proper lighting in the workplace. Do not operate electric equipment in the presence of gases of flammable fluids.
- Keep the workplace out of the reach of children. Make sure that children cannot access the workplace. Do not let children play with the device or use tools/extension cords.
- 4. Put unused material back, where it belongs. Unused tools must be stored in a dry place, so as to protect them against corrosion. Always keep tools locked and away from the reach of children.
- 5. Adjust tools to the type of work to be done. Do not attempt to carry out any work with small tools or accessories, if such work must be done with large industrial tools. This device has been designed only for certain applications. The device will operate in the most efficient and safe manner, provided that is used according to the frequency it has been designed for. Do not modify the device or use it for any other purposes (that the intended one).
- 6. Wear proper working clothes. Do not wear any loose clothing, or necklaces that could become trapped in the moveable parts of the machine. It is recommended to always wear protective clothing and shoes, when working. Use protective headwear to cover long hair.
- Use eye and ear protection. When working in dusty environments and in the presence of chemical vapours, always wear a dust-mask or a protective mask with an ANSI certificate.
- 8. Do not lean over. Make sure your feet are well

supported and there is no risk of losing balance. Do not reach beyond working machines.

- 9. **Take proper care of tools.** Carry out periodic inspections of non-collapsible and flexible cords, so as to make sure that they are clean, dry, and not soiled with oils and lubricants, at all times.
- 10. **Exercise maximum care:** Pay attention, when carrying out operations and always observe the rules of common sense. Do not work with the device or any tool, if you feel too tired.
- 11. Make sure that there is no potential damage to any of the tools. Prior to using any tool, carefully check every element that seems to be damaged. This is the only way to make sure that it will work properly and perform all required functions. Check the location and fixing of all moveable parts. The device may not work properly, if assembly elements or tools are damaged or show other defects. All damaged elements must be repaired or replaced, by a qualified technician. Do not operate the device, if any of its control systems/the breaker switch works improperly.
- 12. **Spare parts and accessories:** When carrying out maintenance inspections of the device, use only original spare parts. The warranty becomes null and void, if non-original spare parts have been used. Use only those accessories that have been specifically designed for the operations carried out with the device.
- 13. Do not operate the device, if you are intoxicated with alcohol or drugs. When using prescribed drugs, carefully read the package leaflet to make sure that the taken medication has no adverse effects on the ability to assess situations or the correctness of reactions. Refrain from using the device, if in doubt.
- 14. **Maintenance inspections.** For safety reasons, the device must be used and regularly maintained, by qualified technicians.
- 15. Warning for people with pacemakers. People with pacemakers must consult a doctor, before operating the device. The electromagnetic field present in the vicinity of a pacemaker may disturb or damage the pacemaker. Furthermore, people with pacemakers must observe the following recommendations: Exercise extra care in the vicinity of coils, electric cords of sparking plugs,

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or timing gears in a working motor. The motor must be turned off, prior to commencing any adjustment on a timing gear.

Safety Measures Related To The Product

Note: The device must only be operated by qualified workers, who have undergone proper training, read and understood the warning information concerning safetv. as well as implementation the information concerning procedures provided herein.

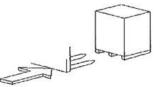
- 1) Wear protective goggles with an ANSI certificate.
- 2) Do not smoke in the vicinity of the device.
- 3) Use the device in a well-ventilated place.
- In the case of leaking from the device or from hoses, immediately turn off the device and eliminate the leakage.
- 5) Do not apply any detergents on the device.
- 6) There must always be an empty container present near the device, to contain a potential leakage.
- Keep an ABC fire extinguisher near the device, to contain any potential fire.
- 8) Make sure that oils and solvents have no contact with eyes and skin.
- 9) The power supply of this machine is: DC12V(Optional: AC220V 50Hz 1Ph or AC110V 60Hz), please pay attention to the safety of electricity, you must use a grounding wire socket.
- 10) It is recommended to calibrate the accuracy of this electronic scale on a regular basis to ensure the correct amount of fuel.
- 11) When the operation is completed, please check manually whether the refueling amount is accurate. Otherwise, the company will not bear the relevant responsibility because the refueling is not allowed to cause damage to the vehicle.
- 12) Please contact the supplier or manufacturer promptly when encountering problems such as machine failure during use. It is forbidden to dismantle the machine without permission.

Transport and packing

- 1. No oil in the working tank and system after packing.
- 2. Storage and transport must refer to the marks on the box. Avoid rain, and notice the placed direction.



Use a forklift to transport goods. Avoid violent transport.



- 4. Make sure the product and acessary in box should be complete and identicaln whit the part list, if not please contact with the local distributor in time.
- 5. The proper disposal of the packaging is the reponsibility of the customer.
- Recommended service life of 6 years for machinery.
- 7. Disposal of machine scrapping according to local policies, laws and regulations.

Accessories

Check the accessories according to the packing list. If any missing parts or damaged parts found, please contact the dealer in time.

Pic	Name	Qty
	Fitting joint	1 package
	Handle	2pcs

Note: Check whether there are any loose couplings or connections.

Technical data

Parameter	Value
Power Supply :	DC12V
	(optional :
	AC220V/50Hz 1PH or
	AC110V/60Hz 1PH)
Motor power:	140W
Pressure gauge range :	0~16Bar (0~220Psi)
Working pressure :	≤6Bar (0~87Psi)
Outlet pipe length:	2.5m
Inlet pipe length:	2.5m
Discharge pipe length:	1.5m
Volume of the oil tank:	20L
Maximum oil-replacing	3.0L/min
speed:	
Environment temperature:	-20 ℃ - +60 ℃
Relative humidity:	<85%
Dimension of machine:	400×590×1120mm
Dimension of packing:	450×640×1170mm

Product description

The Automatic Transmission Fluid Oil Exchanger is designed to achieve the replacement of cooling oil of transmission, fluid torque converter, and the transmission radiator in the shortest time, with the oil-changing rate for more than 90%; Machine equipped with a LCD display to make the operation much more simple and convenient.

- 1. Function features :
- 1) Automatic flow direction switch.
- 2) Automatically exchange the used and new transmission oil.
- 3) High precise recharging and discharge value controlled by the computer.
- 4) Oil pressure and machine inner pressure showed on the LCD display directly.
- 5) A variety of connectors, suitable for a large number of Europe, USA, Asia and other countries'

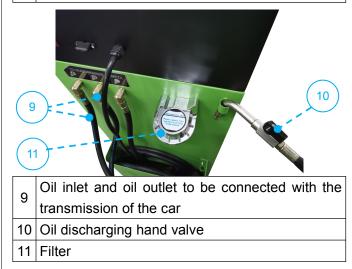
car models.

- 6) Able to solve a series of problems caused by incomplete transmission oil exchange.
- Greatly extend the service life of the transmission, and improve the working environment of the transmission.
- 8) Rapid in operation and high exchanging rate.
- 2. Appearance description



1	New oil: observe the condition of new oil		
2	Oil inlet pressure gauge: output oil pressure of		
the device			
3	Esc: return or cancel the operation		
4	↑ : previous row or increase the value		
5	↓ : next row or decrease the value		
6	OK: key to confirm and save		
7	Oil returning pressure gauge: pressure of oil		
	returning to the device		

8 Used oil: observe the condition of used oil



Operation instructions

Before use the new machine, please confirm whether the new and used oil tank is

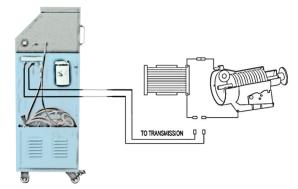
empty; connect to the power supplies; turn on the power switch. Check to see whether the oil level of the oil tank displayed on the screen is 0. If it is 0, operate the machine normally; otherwise, conduct calibration operation for the electronic scales of the new and used oil tanks according to the calibration operation for the electronic scale on the page 12 of the manual.

Note : Never start car engine in a garage or any other closed room, if there is no proper extraction system for exhaust gases. Working engine generates carbon monoxide, which becomes lethal in a closed room. The first symptoms of carbon monoxide intoxication are similar to flu (headache, dizziness, or nausea).

Should any of such symptoms occur, immediately leave the room and get some fresh air.

1. Prepare for the first time to use

- 1.1. Confirm whether the new and used oil tank is empty, connect to the power supplies; turn on the power switch. Check to see whether the oil level of the oil tank displayed on the screen is 0. If it is 0, operate the machine normally; otherwise, conduct calibration operation for the gravity sensor of the new and used oil tanks according to the calibration operation for the gravity sensor on the page 12 of the manual
- 1.2. In a ventilated room, place the car on an elevator or other safety support frame and reliably lift the car with the driving wheel suspended at least 200mm from the ground.
- 1.3. Pull up the handbrake, put the gear-change lever in the "P" position and turn off the engine.
- 1.4. Find out a detachable oil tube on the car which connects the automatic transmission and the radiator; select the adapters that match the detached tube connectors from the adapter kit.
- 1.5. Connect the two oil pipes indicated with "TO TRANSMISSION" on the machine to the both ends of the detached oil pipe of the automatic transmission (no need to consider the flow directions. the system will automatically recognize the inlet and outlet), as shown below



- 1.6. Screw off the new oil filler cap on the top of the machine, and fill the new transmission oil to the new oil tank of the machine through the oil filler. Note:
- A) Before changing the transmission oil for a car, please check the relevant information to confirm the oil type for transmission, to avoid the improper transmission oil infusing into the transmission and causing damage to the transmission.
- B) The maximum capacity of the oil tank in the machine is 20L; please make sure the filling amount of the new oil tank is added according to vehicle maintenance manual or the recommended quantity from the oil supplier;
- C) Check the amount of oil in the used oil tank before each operation. It is recommended to use the empty the oil tank function of the machine to empty the tank in time.

2. Adding cleaning fluid

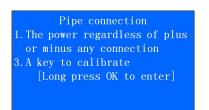
The transmission is cleared through the cooperation between the filtration system of the machine and its inner filtration system. This machine does not equip the sole cleaning fluid adding function. If the user decided to clear the transmission with the cleaning fluid, there are two options could be adopted:

- 2.1 Refer to relevant information to confirm the appropriate cleaning fluid for transmission, find out new oil hole on the car transmission and add appropriate cleaning fluid through the fill hole.
- 2.2 If there is no new oil fill hole on the transmission, open the back door of the machine and pull the fluid-sucking pipe out of the new oil tank to insert it into the bottle of the cleaning fluid; use the function of "add new oil" of the machine to add cleaning fluid.

Note: the cleaning fluid in the market is divided into the concentrated type and the non-concentrated type; if using the concentrated cleaning fluid, it is recommended to dilute the cleaning fluid with some new oil for easy adding into the transmission.

3. Cycle cleaning

- 3.1 Confirm that the machine oil pipe and the transmission system of the car is firm without leakage.
- 3.2 Turn on the power switch of the machine and the boot interface is as follows:



- 3.3 Press the OK key to enter the function menu.
- 3.4 Press the \uparrow or \downarrow key on the operation panel to choose the "cycle cleaning" function.



3.5 Press the OK key to enter the cycle cleaning.



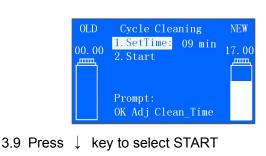
3.6 Press the OK key to enter the cleaning time setting.



3.7 Press \uparrow or \downarrow key to set cleaning time.



3.8 Press OK to confirm the cleaning time setting.





3.10 Press OK key to start cycle cleaning



3.11 Start the car engine to start the cycle clean of the transmission system.

(In order to save time, choose to stay for about one minute in each gear; when it comes to the high-speed gear, throttle up the engine to speed the motor vehicle to 60Km/h to ensure the cleaning quality and speed)

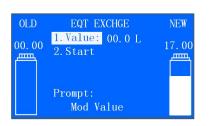
3.12 After cycling for more than ten minutes, shut down the car engine; press the Enter key to stop the cycle cleaning as well as to complete the cycle cleaning of the car transmission system.

4. Eqt exchange (Equivalent exchange)

- 4.1. Confirm that the machine oil pipe and the transmission system of the car is connected firmly without leakage.
- 4.2. Turn on the power switch of the machine to enter the function menu.
- 4.3. Press the ↑ or ↓ key on the operation panel to choose the "Eqt Exchange" function.



4.4. Press the OK key to enter the Eqt exchange.



4.5. Press the OK key to enter the setting of Eqt exchange.



4.6. Press the \uparrow or \downarrow key to set the exchange amount of the transmission.



4.7. Press the OK key to save the exchange setting amount of the transmission.



4.8. Press the \uparrow or \downarrow key to choose to start.



4.9. Press the OK key to start exchanging the transmission oil; press the OK key to stop the exchange if necessary; press OK key again to keep on exchanging; press the Esc key to stop the exchange and exit.



If the oil storage of the new oil tank is in shortage or is smaller than the set amount, the transmission oil cannot be exchanged, as shown in the following; reset the exchange amount or complement the new oil in the new oil tank and then conduct the oil exchange operation.

OLD	EQT EXCHGE	NEW
00.00	1.Value: 00.0 L 2.Start	00. 00
	Prompt: Add New Oil!	

Note:

Although the equipment is able to ensure the accuracies of exchanging amount, however, the transmission oil level is probably out of the range before exchanging. Thus, please inspect the transmission oil level after operation is done. In case, the transmission oil level is out of range, please choose the "add new oil" or "recycle old oil" function to adjust the oil level to the normal range.

As the car is lifted up, in this process, the ABS trouble light is likely to be on.

To ensure the quality of the replacement, the new oil in the equipment shall be 2-3L more than that of the car automatic transmission.

5. Adding new oil

Tip: Equip with separate charging function when the oil is not enough in the transmission

- 5.1. Confirm that the oil pipe of the machine and the car transmission system is connected firmly without leakage.
- 5.2. Turn on the power switch of the machine to enter the function menu.
- 5.3. Press the \uparrow or \downarrow key on operation panel to choose "add new oil".

OLD	MENU	NEW
	1. Cycle Clean 2. Eqt Exchange 3. Add New Oil 4. Rec Old Oil 5. Empty Box 6. System Set	05.50

5.4. Press the OK key to enter the "add new oil".



5.5. Press the Enter key to enter the setting of adding oil value.



5.6. Press the \uparrow or \downarrow key to set the adding value of new oil.



5.7. Press the OK key to confirm saving the adding value of new oil.



5.8. Press the \uparrow or \downarrow key to choose to start.



5.9. Press the OK key to start adding new oil, press the OK key during the adding process to pause and press the ESC to return.



5.10. The machine will stop automatically when the new oil amount reaches the set value, as the

following interface shows:

OLD	INJECT NEW	NEW
11.50	Value: 01.0 L Finished: 100% Finished!	04.50
	Prompt: OK,ESC Exit	

- 5.11. Press the OK or Esc key to return to the function menu.
 - 6. Rec Old Oil(Recycling old oil)

Tip: The sole transmission oil discharge function when adjusting oil level in transmission

- 6.1 Confirm that the oil pipe of the machine and the transmission system of car is connected firmly without leakage.
- 6.2 Turn on the power switch of the machine to enter the function menu.
- 6.3 Press the ↑ or ↓ key on the operation panel to choose "Rec Old Oil" function.



6.4 Press the OK key to enter the "Rec Old Oil" function.



6.5 Press the OK key to enter the recycling value setting of old oil.



6.6 Press the \uparrow or \downarrow key to set the recycling value of old oil.



6.7 Press the OK key to confirm saving the recycling value of old oil.



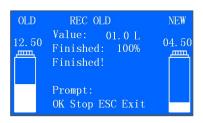
6.8 Press the \uparrow or \downarrow key to choose to start.



6.9 Press the OK key to start recycling the old oil.



6.10 The machine will stop automatically when the old oil amount reaches the set value, as the following interface shows:



6.11 Press the OK key or the Esc key to return to the function menu.

7. Empty the oil tank of equipment

The accuracy of gravity sensor will be decreased greatly due to the long-time pressure. So the transmission oil of new and old oil tanks shall be emptied after the work has been finished every day.

- 7.1. Empty the new oil tank of the machine
- 7.1.1. Ensure that the oil inlet and outlet pipes are not connected with the car, open the power

switch of machine, and enter the Function Menu.

7.1.2. Press the ↑ or ↓ key on the operation panel to choose "Empty Box" function.

OLD	MENU	NEW
12.50	1. Cycle Clean 2. Eqt Exchange 3. Add New Oil 4. Rec Old Oil 5. Empty Box 6. System Set	04. 50

7.1.3. Press the OK key to enter the interface of Empty Box.

OLD	EMPTY BOX	NEW
12.50	1.01d Box 2.New Box	04. 50

7.1.4. Press the \uparrow or \downarrow key to choose "New Box".



7.1.5. Press the OK key to enter the interface of Empty Box Warning.



- 7.1.6. Put the discharge pipe in an outer new oil tank or an empty tank.
- 7.1.7. Open the hand valve on the discharge pipe. If the hand shank is parallel to the pipe, it means opened; if the hand shank is perpendicular to the pipe, it means closed.



Hand valve for oil discharge

7.1.8. Press the OK key to start emptying the new oil tank; press the OK key to suspend and press the Esc to exit and return.



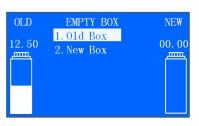
7.1.9. It will display the interface that the new oil tank has been emptied after emptying the new oil tank of the machine.

OLD 12.50	EMPTY BOX Finished:100% Emptying Box Finished!	NEW 00. 00
	Prompt: OK Stop ESC Exit	

- 7.1.10. Press the OK key to return.
- 7.2. Empty the old oil tank of equipment.
- 7.2.1. Ensure that the oil inlet and outlet pipes are not connected with the car, open the power switch of machine, and enter the Function Menu.
- 7.2.2. Press the ↑ or ↓ key on the operation panel to choose "Empty Box" function.

5.Empty Box 6.System Set

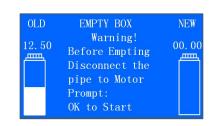
7.2.3. Press the OK key to enter the interface of Empty Box.



7.2.4. Press the \uparrow or \downarrow key to choose "Old Box".



7.2.5. Press the OK key to enter the interface of Empty Box Warning.



- 7.2.6. Put the discharge pipe in an outer waste oil tank or an empty tank
- 7.2.7. Open the hand valve on the discharge pipe. If the hand shank is parallel to the pipe, it means opened; if the hand shank is perpendicular to the pipe, it means closed.



Hand valve for oil discharge

7.2.8. Press the OK key to start emptying the old oil tank.

OLD	EMPTY BOX	NEW
12. 50	Finished: 00% Emptying Box Wait	00. 00
	Prompt: OK Stop, ESC Exit	

7.2.9. It will display the interface that the old oil tank has been emptied after emptying the old oil tank of the machine.



7.2.10. Press the Esc key to return

8. System set

Please ensure that the gravity sensors for new and old oil have been calibrated before the first use of the new equipment. **Please ensure that the new and old oil tanks are empty before calibration.**

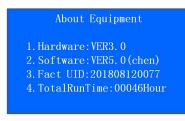
- 8.1. To calibrate the gravity sensor for new oil
- 8.1.1. Turn on the power switch of the machine and enter the Function Menu.
- 8.1.2. Press the ↑ or ↓ key on the operation panel to choose "System Set" function.



- 8.1.3. Press the OK key to enter System Set
- 8.1.4. Press the \uparrow key to choose "About Equipment".



8.1.5. Press "OK' to enter.



- 8.1.6. Press the \downarrow key 8 times
- 8.1.7. Press the ESC key back to setting Unlock finished.



8.1.8. Press the OK key to enter the interface of New balance CB.



8.1.9. Press the OK and the Esc key for right shift and left shift of the cursor; press the Up or Down key to set the weight of standard reference substance to be used (it is suggested to use 5Kg standard weight as the known standard weight for reference).



8.1.10. Press the OK key to move the cursor on last bit, press the OK key to confirm and save the set value of the weight of standard reference substance, and enter the next interface.



8.1.11. Open the back door and unscrew the nut in the bracket.



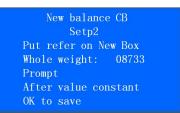
8.1.12. Pull out the bracket



8.1.13. Put the standard weight object for calibration on it (Standard weight must be the same as the setting)



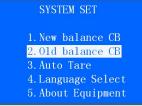
8.1.14. After the value is stable, press OK to complete the calibration.



- 8.1.15. After the calibration is completed, it is recommended to return to the main interface, and then put a standard weight object on the bracket to verify whether the weight on the interface is consistent with the standard weight so that determine if the calibration is successful.
- 8.2. To calibrate the gravity sensor for used oil
- 8.2.1. Turn on the power switch of the machine to enter the Function Menu.
- 8.2.2. Press the \uparrow or \downarrow key on operation panel to choose the "System Set" function.
- 8.2.3. Press the OK key to enter System Set.



8.2.4. Press the ↓ key to choose "About Equipment"



8.2.5. Other steps are the same as 8.1.8-8.1.15.

8.3. A Key To Zero

Note:when no oil in OLD and NEW oil tanks, but also shows the electronic scale weight data, through smart key to zero operation return to zero.

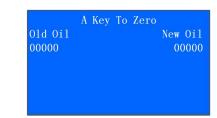
8.3.1. On the System Set interface, press the ↑ or ↓key to choose the "Auto Tare" function.

SYSTEM SET	
1.New balance CB 2.Old balance CB	
3.Auto Tare	
4.Language Select 5.About Equipment	

8.3.2. Press the OK key to enter the interface of "A Key To Zero".



8.3.3. Press the OK key.



- 8.3.4. Complete one key to clear zero
- 8.4. Set the display language
- 8.4.1. On the System Set interface, press the ↑ or ↓key to choose the "Language Select" function.



8.4.2. Press the OK key to enter the interface of Language Select.



- 8.4.3. Press the \uparrow or \downarrow key to choose the system language interface that is going to be used;
- 8.4.4. Press the OK key to confirm and save the language selected.
- 8.5. Look up the equipment information
- 8.5.1. On the System Set interface, press the ↑ or ↓
 key to choose the "About Equipment" function.



8.5.2. Press the OK key to enter the interface of About Equipment to look up the relevant information of current equipment.

About Equipment

1. Hardware: VER3.0 2. Software: VER5.0(chen) 3. Fact UID:201808120077 4. TotalRunTime:00046Hour

Troubleshooting

- 1. Starting up without display
- 1.1. Cause: fuse burn-out
- Solution: change the fuse 1.2. Cause: failure of power switch
- Solution: repair or change the switch 1.3. Cause: circuit damage
- Solution: repair or change the circuit
- 1.4. Cause: computer board damage Solution: repair or change the computer board
- 2. Failure of equivalent exchange
- 2.1. Cause: gravity sensor has not been set successfully

Solution: re-calibrate the gravity sensor follow the calibration steps of gravity sensor that stated in the instruction

2.2. Cause: the component blocked or damaged (solenoid valve or oil pump)

Solution: inspect and find out the blocked or damaged component, unblock or repair it

2.3. Cause: Irregular operation

Solution: Follow the instruction to operate the machine

- 2.4. Cause: the oil pump fails to suck new oil
 - Solution: check whether the oil pipe has been inserted to the lowest point; adjust the position of the oil pipe; make sure the oil pump inserted to the lowest point. If the pump is confirmed already reach to the bottom, it probably entered air into the pump. The solution is as follows:
- 2.4.1. Shut down the car
- 2.4.2. Open the hand valve of the discharge oil pipe, then put it into the oil filler.
- 2.4.3. Run the "Empty box" function and stop it after 3 seconds; repeat the steps until the air has been discharged fully.
- 2.4.4. Firstly, check whether the connection of oil-way is correct or not; secondly, the pressure may be less than 0.5 kilogram due to the aging of the automatic transmission (in this case, the equipment works normally, no need to be changed)
- 3. Fail to empty the new oil

Solutions:

- a) The oil pump fails to pump oil as the pump doesn't reach to the bottom of the oil tank. In this case, please insert the oil pump to the bottom
- b) The oil pump does not work, please change a new oil pump
- 4. Unable to empty the used oil
 - Solutions:
- a) The oil pumping reversing valve may damage, please change a new one.
- b) The oil pump fails to pump oil as the pump doesn't reach to the bottom of the oil tank. In this case, please insert the oil pump to the bottom
- c) The oil pump does not work, please change a new oil pump
- 5. Fail to add new oil or recycle used oil
- Solutions:a) The oil pump fails to pump oil as the pump doesn't reach to the bottom of the oil tank. In this
 - case, please insert the oil pump to the bottom
- b) The oil pump does not work, please change a new oil pump
- The oil of new and old oil tanks has been added more during the cycle cleaning Solutions:
- a) Inspect if the one-way valve is damaged and change a new one-way valve if it fails
- b) Check if the solenoid valve which controls changing used oil is damaged, please change a new one if it fails

	Standard joint				
N	No.	picture	size	car type	
	1		350mm	Short hose to identify the direction of oil	
	2		M14 imes 1.5	VW	
	3		Ø 12mm		
	4	Ā	Ø 12mm	Toyota/	
	5		Ø 10mm	Honda/	
	6		Ø 10mm	Nissan/ Mitsubishi/	
	7		↓ Ø8mm Lexus	Lexus	
	8		Ø 8mm		
	9		Ø 14mm	Buick Excelle & Regal/ GAC Trumpchi/ Toyota Crown&Reiz	
	10		G_{4}^{1} "	Special car	
	10	OND	G_{4}^{1} "		
	11	ODED	$M14 \times 1$	Cadillac	
	11		M14 imes 1		
10	12		G_{4}^{1} "	Chrysler	
	12	ODD	G_4^1 "	Chryster	
	13	ONT	G_{4}^{1} "	Special car	
10	O	G_{4}^{1} "	Special car		

No.	picture	size	car type
14		M18×1.5	Special car
		M18×1.5	
15		M16×1.5	Special car
		M16×1.5	Special car
16	DIED	M16×1.5	Special car
	THE	M16×1.5	
17		M16×1.5	Special car
		M16×1.5	Special car
18		M18×1.5	Audi Q5
		Ø11×10	
19		M18×1.5	Audi A6L/
		M18×1.5	VW passat
20		M18×1.5	Audi A6L/
		M18×1.5	VW passat
21		\$\$ 49 \times 10	BUICK (GL8 & Centery & Regal)
22	OND	\$9.49 \times 14	Chevrolet Cruze
23		Ø 9. 49×20	Ford Focus
24	and	Ø8、Ø10、Ø12	Toyota/Honda/Nissan/ Mitsubishi/Lexus

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No.	picture	size	car type
25		¢ 12. 61×27	Ford Mondeo & Volvo
26		¢ 12. 2×22	ROEWE
27			BMW 3 Series &
28			5 Series
29		M12×1.5	Bora 01M / Škoda
30		M12/11.0	bora UIM / SKOUA
31		G_2^1 " $ imes 55$	Special car
32		G_2^1 "×80	Special car
33		M14×1.5	Special car
34	ONT	M12 $ imes$ 1.5	Special car
35		M10 $ imes$ 1	Special car
36	M	M14×1.5	VW
07	97	M14	Buick Excelle&Regal/ GAC Trumpchi/Toyota
37		M14	Crown&Reiz
20		Ø 15	Volkswagen
38		$\phi_{15} imes 17$	Tiguan 1.8
		ø 14×5	Chevrolet Sail
39		ø 11×5	