



Universal Automatic Machine
for the Automatic Transmission Fluid Exchange

SPEED 2000



OPERATING MANUAL



IMPORTANT!



We recommend that you thoroughly read the instructions provided in this manual before switching on the device. This will enable you to obtain excellent performance and reliability over time.

Store this manual close to the device for quick reference by operators!

The Manufacturer shall not be liable for failures or other consequences deriving from incorrect procedures on the part of the User.

No part of this manual may be reproduced in any form without prior written consent by the manufacturer.

The manufacturer reserves the right to make improvements or changes in its instruments at any time and without prior notice.

Dear Customer,

Congratulations on your purchase of **SPEED 2000**, a new system for washing and replacing automatic transmission fluid.

The safety instructions provided below are guidelines to help you use SPEED 2000 under conditions of maximum safety.

Every device that uses chemical substances is potentially dangerous if the user is not familiar with the operating instructions or if the instructions are not accurate.

This manual is to be considered an integral part of the instrument as it contains general instructions for correct use of the device.

We therefore invite you

- to carefully read through the instructions before switching on the device,
- to adequately train operators
- to store the manual for future reference

These good practices shall ensure that you obtain from the instrument top performance and reliability over time.



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1 SAFETY RULES

1.1 For the SPEED2000



Carefully read this manual before using the unit SPEED2000.

DO NOT CONNECT THE UNIT TO VOLTAGE OR FREQUENCY OTHER THAN THOSE INDICATED ON THE PLATE.

USE THE DEVICE ONLY IN DRY PLACES, SUFFICIENTLY LIGHTENED AND WELL AIRED.

DO NOT EXPOSE THE DEVICE TO WARM SOURCES.

DO NOT BUMP THE DEVICE.

DURING TRANSPORT OR HANDLING, ENSURE THAT THERE ARE NO OTHER OBJECTS ON THE INSTRUMENT TO PREVENT THEM FROM FALLING.

DO NOT WET THE DEVICE AND PROTECT IT FROM ANY DIRECT CONTACT WITH THE RAIN.

DO NOT CLEAN THE DEVICE WITH PRODUCTS THAT MAY DAMAGE THE PLASTIC BOX OR LCD.

THE EXTRAORDINARY MAINTENANCE MUST BE DONE ONLY BY QUALIFIED STAFF.

IT IS FORBIDDEN THE USE OF NON-ORIGINAL SPARE PARTS

DO NOT REPAIR BLOWN OR DEFECTIVE FUSES BUT REPLACE THEM WITH FUSES HAVING EQUIVALENT CHARACTERISTICS

1.2 For the user



Carefully read this manual before using the unit!

KEEP PROTECTIVE WEARING AND BEHAVE PROPERLY.

ALWAYS WEAR GLASSES PROTECTION WHEN WORKING ON THE PIPING SYSTEM OF THE VEHICLE'S TRANSMISSION, TO PROTECT YOUR EYES FROM VIOLENT JETS OF HOT LIQUID. DO NOT USE COMMON GLASSES, BUT ONLY SECURITY GLASSES.

ALWAYS CLEAN UP THE FLOOR, IN THE EVENT OF A SPILL OF FLUID, BECAUSE IT CAN CAUSE FALLS.

USE ONLY THE CABLES SUPPLIED AND ENSURE THAT THE INSULATION IS IN GOOD CONDITION.

PAY ATTENTION TO THE MOVING DEVICES ON THE VEHICLE. PARTICULARLY THE ELECTRIC FANS MAY START EVEN WHEN THE VEHICLE IS SWITCHED OFF.



Always obtain the MDS of materials used and follow what it being reported on that.



1.3 Disposal

NOISE - The ATF Machine has a level below 70 db(A).

If situated in spaces with a noise level above 80 db(A), the employer has to inform and give formation on the risks coming from the exposition to the noise and to take appropriate measures in agreement with the concerned doctor.

PACKAGING - Do not throw away randomly the packaging parts, but select them according to their material (ex. Paper, wood, plastic etc.) and dispose of them according to the regional and national norms and laws.

OUT OF ORDER - At the end of its life, it is necessary:

TO DEACTIVATE THE SPEED2000, BY DISCONNECTING IT FROM THE POWER SUPPLY AND BY CUTTING OFF THE power cable;

TO DISMANTLE THE ELECTRONIC PANEL AND THE RELATED ELECTRONIC BOARD;

TO DISMANTLE THE COMPONENTS AND TO SELECT THEM BY THEIR TYPE.

DISPOSAL - At the end of its life, it is necessary to dispose of all the components, select them by type, according to the regional and national norms and laws.

In particular, regarding the electric and electronical components, following the CE directives 2002/95/CE, 2002/96/CE and 2003/108/CE, concerning the decrease of dangerous substances in electric and electrical devices and the disposal of wastes, the manufacturer calls for:

DO NOT DISPOSE IT AS A SOLID URBAN WASTE, BUT RECYCLE ITS COMPONENTS;

INFORM YOURSELF AT THE DISTRIBUTER ABOUT THE AUTHORIZED COLLECTION POINTS, TO AVOID POTENTIAL NEGATIVE

effects to the environment and to human health;

THIS SYMBOL MEANS THE OBLIGATION TO RECYCLE THE ELECTRIC AND ELECTRONIC COMPONENTS when demolishing.

THE DISTRIBUTOR WHO DOESN'T PROVIDE THE RECYCLING AND COLLECTING ORGANIZATION, IS PUNISHABLE BY LAW.

DISPOSAL OF BATTERIES AND ACCUMULATORS

According to EU directive 2006/66/CE, here below are given the instructions to remove the lithium battery CR2032, contained in the SPEED2000:

POSITION THE ATF MACHINE SWITCH ON THE OFF POSITION;

DISCONNECT THE ATF MACHINE FROM THE ELECTRIC POWER SUPPLY;

DISMOUNT THE UPPER PANEL BY UNSCREWING THE FIXING SCREWS;

REMOVE THE CIRCULAR BATTERY FROM THE ELECTRONIC BOARD.



2 TECHNICAL CHARACTERISTICS

12V VERSION:

Power Supply:

12 VDC (VEHICLE BATTERY).

Display:

BACK LIGHTED LCD, 4 LINES X 20 CHARACTERS, ALPHANUMERIC

Printer:

THERMAL, 24 COLUMNS.

Hardware:

ELECTRONIC CONTROL BOARD AND CONTROL MICROCONTROLLER

Pump:

MAXIMUM FLOW = 5,5 LITRES/MIN;

MINIMUM FLOW = 4,5 LITRES/MIN;

MAXIMUM PRESSURE = 9 BAR

Dimensions:

W = 660 MM, H = 1175 MM, D = 510 MM

Weight:

~50 KG

Operating temperature: + 5° C ÷ + 40° C

230V VERSION:

Power Supply:

230 V 50 Hz

Display:

BACK LIGHTED LCD, 4 LINES X 20 CHARACTERS, ALPHANUMERIC

Printer:

THERMAL, 24 COLUMNS.

Hardware:

ELECTRONIC CONTROL BOARD AND CONTROL MICROCONTROLLER

Pump:

MAXIMUM FLOW = 5,5 LITRES/MIN;

MINIMUM FLOW = 4,5 LITRES/MIN;

MAXIMUM PRESSURE = 9 BAR

Dimensions:

W = 660 MM, H = 1175 MM, D = 510 MM

Weight:

~ 55 KG

Operating temperature: + 5° C ÷ + 40° C

3 DESCRIPTION

For technical specialists, it has become necessary to have a valid instrument, allowing the oil change to the automatic transmission in a simple, fast and automated way.

With the help of SPEED2000, a single operator is sufficient to perform the washing and the oil change of vehicles with automatic transmission.

The machine is equipped with a unique electronic control system, which allows identifying the oil flow. This software manages in SPEED2000 the correct flow of the pump, verification of the quantity of new and used oil present, displaying warning messages if the quantity of new oil is insufficient or if the quantity of exhausted oil is larger than the space of wasted oil tank.

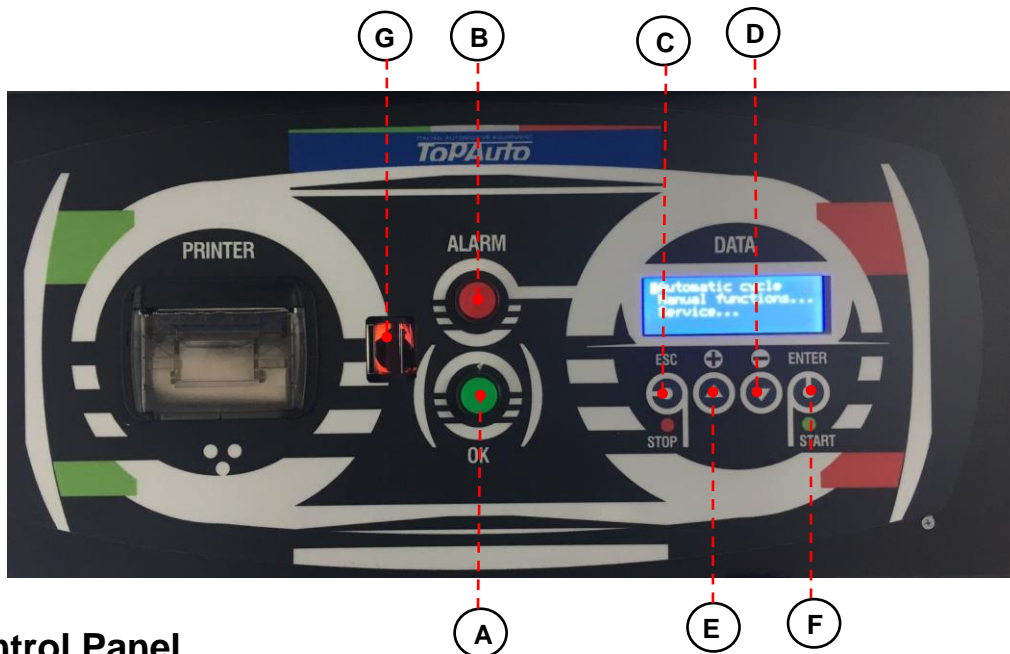
The SPEED2000 is equipped with a quickly removable tank for the WASTE oil for proper disposal according to regulations.

3.1 Machine components






- | | | | |
|---|----------------------------|----|------------------------------------|
| 1 | PRINTER | 10 | POWER SUPPLY – 230V VERSION |
| 2 | LED INDICATION | 11 | DISPLAY |
| 3 | KEYBOARD | 12 | FUNNEL TAP |
| 4 | FRONT HANDLE | 13 | SUMP DRAIN FUNNEL |
| 5 | OLD FLUID TANK COMPARTMENT | 14 | AUXILIARY TANK |
| 6 | FRONT WHEEL WITH BRAKE | 15 | POWER SUPPLY – 12V VERSION |
| 7 | REAR WHEEL | 16 | TANKS COMPARTMENT PANEL |
| 8 | NEW FLUID TANK COMPARTMENT | 17 | FUNNEL MOVE LEVER |
| 9 | CONNECTION HOSES | | |



3.2 Control Panel

- A. **GREEN** light “**ON PROCESS**”: normally off; it flashes during cycle performance. - It remains on at end of cycle.
- B. **RED** light “**ALARM**”: Normally off. It starts flashing in case of alarms due to: - insufficient new fluid – insufficient volume for receiving used fluid in the used fluid tank – absence of required additive in auxiliary tank. Failures or defects.
- C. **STOP/ESC** button: button: cancels selection or enables option between two possible operations; enables return to previous page
- D.  button : decreases selected value (100 ml steps), or enables downward movement of the selection cursor appearing on the display



- E. button : increases selected value (100 ml steps), or enables upward movement of the selection cursor appearing on the display.
- F. **ENTER/START** button: confirms selection and/or starts the operation.
- G. **ILLUMINATED FLUXMETER**: Permit to see the color of the oil during oil change.

4 DELIVERY, TRASPORT AND ASSEMBLY

4.1 Delivery and assembly

The operator must:

- UNLOAD THE MACHINE IN CONFORMITY WITH THE PROVISIONS OF CURRENT WORKPLACE SAFETY REGULATIONS;
- REMOVE PACKAGING MATERIAL AND DISPOSE OF IT PROPERLY.



Check integrity of components and devices. If needed contact our local authorized dealer immediately.

4.2 Transport

During transport, the following rules must be observed strictly:

- APPLY CURRENT WORKPLACE SAFETY REGULATIONS (ESPECIALLY WITH RESPECT TO OVERALL WEIGHT WHICH IS approximately 50 kg);
- REMOVE ANY ACCESSORY DEVICE OR OTHER PARTS THAT MAY OBSTRUCT MOVEMENT;
- IF LIFTING THE UNIT MANUALLY, TAKE A FIRM HOLD OF THE SYSTEM;
- STAFF NOT INVOLVED IN THE HANDLING OF THE UNIT MUST STAY CLEAR OF THE AREA.

In case of transport on vehicle ensure that the unit is firmly positioned before proceeding.



In case of transport on vehicle ensure that the unit is firmly positioned before proceeding.



5 PREPARATION

5.1 Preparation of SPEED2000

CAUTION:



After receiving the SPEED2000 you need to perform an **MACHINE PRIMING** operation, or drain out test fluid from the unit.

- **12V version** - Connect SPEED2000 to the battery of vehicle: the black clamp to the negative pole (-) and the red clamp to the positive pole (+).
- **230V version** – Connect Speed2000 to 230V 50Hz power socket

CAUTION:



If power supply is not correct, the machine will not turn on.

5.2 Preparation of the vehicle

- After positioning the vehicle on the car lift, put car gear on park (**P**).



NOTE:

Always check level with engine running, taking into account fluid temperature and manufacturer's indications.

5.3 Connection to transmission

- Identify and disconnect hose, in the most accessible point, choosing between the connection point on the automatic transmission or the connection point on the radiator, according to accessibility and type of fitting.



NOTE

It is not necessary to know the direction of flow of the fluid, as the SPEED 2000 will detect it automatically.



6 USE

6.1 Automatic Cycle

After turning ON the SPEED 2000, the following message appears:

**CHECK THE
TRANSMISSION FLUID
LEVEL BEFORE START
WITH OPERATIONS**



NOTE

Always check level with engine running, taking into account fluid temperature and manufacturer's indications, before start with ATF exchange.

- Press any button to continue.

The display shows the following message :

**→AUTOMATIC CYCLE
MANUAL FUNCTIONS
SERVICE**

- Select Automatic Cycle with selection keys
- Press ENTER/START button.

The subsequent screen displays will guide the operator in a simple and exhaustive way, to all the necessary operations to complete the cycle.



The display shows the following message :

TURN ON THE CAR
ENGINE BEFORE START
WITH OPERATIONS

Turn on the car engine

Press ENTER/START.

On the display of SPEED 2000, you may see the message:

OIL TEMPERATURE TOO LOW
WAIT FOR WARMING
22°C----->30°C

This message will appear only if the oil temperature is lower than 30 ° C.

SPEED2000 automatically continue to the next step when the oil temperature will exceed 30 ° C.

If you are sure that car don't have thermo valve, press ENTER/START to skip waiting time.

After pressing enter/start, SPEED2000 displays its status

NEW OIL 10L
OLD OIL 2L
ADDITIVE TANK EMPTY/FULL
GENERIC ATF 34°C

- **NEW OIL:** It indicates the amount of oil present in the NEW oil tank.
- **OLD OIL:** It indicates the amount of oil present in the OLD oil tank.
- **ADDITIVE TANK:** It indicates the presence or absence of detergent and/or additive.
Maximum capacity 1 liter.
- **GENERIC ATF:** It indicates the type of oil that is set and the temperature of oil



Press ENTER/START.

The display shows the following message :

**SET THE OIL TYPE
AND AMOUNT**
→ **GENERIC ATF**
NEW OIL **10.0L**

Use UP/DOWN buttons to set the type of oil that you are using

Press ENTER/START to confirm the choice.

The display shows the following message :

**SET THE OIL TYPE
AND AMOUNT**
GENERIC ATF
→ **NEW OIL** **10.0L**

Use UP/DOWN buttons to set the quantity of oil that you need to exchange

Press ENTER/START to confirm the choice.

The display shows the following message :

**ACTUATE THE CIRCUIT
CLEANING?**
YES/NO

Press ENTER/START to confirm the circuit cleaning phase.

Select with UP/DOWN buttons NO to not run the circuit cleaning phase.

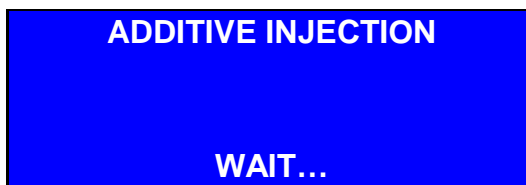
Choosing the circuit cleaning phase the SPEED2000 displays the following page.

**LOAD CLEANING
ADDITIVE INTO
ADDITIVE TANK**



Load additive into auxiliary tank (14) and press ENTER/START to inject the detergent in the automatic transmission.

The display shows the following message :



Once all additive was injected, automatically start the washing phase of 10 min.

The display shows the following message :



Once countdown arrive to 0, SPEED2000 automatically proceeds with the identification of the oil flow

The display shows the following message :



Once the oil flow has been identified, automatically start changing of the oil (the amount that you set before)

The display shows the following message :



- **NEW** : It indicates the amount of oil present in the NEW oil tank.
- **OLD** : It indicates the amount of oil present in the OLD oil tank.
- **SET**: It indicates the amount of oil that was set for oil change.



- ↓ : It indicates the amount of oil you are discharging in real time
- ↑ : It indicates the amount of oil you are charging in real time

Once the value of ↓ and ↑ arrive at the same value of SET, the oil change function is complete.

The display shows the following message :

**INJECT PROTECTIVE
ADDITIVE ?
YES/NO**

Press ENTER/START to confirm the injection of cleaning additive.

Select with UP/DOWN buttons NO to not inject protective additive.

Choosing the injection of protective additive, the SPEED2000 displays the following message :

**LOAD PROTECTIVE
ADDITIVE INTO
ADDITIVE TANK**

Load protective additive into auxiliary tank (14) and press ENTER/START to inject the detergent in the automatic transmission.

The display shows the following message :

**ADDITIVE INJECTION

WAIT...**

Once all additive was injected the display shows the following message :

**AUTOMATIC CYCLE
COMPLETED
CHECK THE TRANSMISSION
FLUID LEVEL 34°C**



NOTE

Always check level with engine running, taking into account fluid temperature and manufacturer's indications.

6.2 MANUAL FUNCTIONS

→AUTOMATIC CYCLE
MANUAL FUNCTIONS
SERVICE

- Select MANUAL FUNCTIONS using selection keys.

The display shows the following message :

→FLUID POP UP
FLUID DRAIN
ADDITIVE
FLOW CONTROL
SUMP DRAIN

6.2.1 FLUID POP UP

This function is used to add oil into the gearbox (usually to make correct level)

- Select FLUID POP UP using selection keys.
- Press ENTER/START button to confirm.

On the display of SPEED 2000, you may see the message:

OIL TEMPERATURE TOO LOW
WAIT FOR WARMING
22°C----->30°C

This message will appear only if the oil temperature is lower than 30 ° C.

SPEED2000 automatically continue to the next step when the oil temperature will exceed 30 ° C.



If you are sure that car don't have thermovalve, press ENTER/START to skip waiting time.
After pressing enter/start, SPEED2000 displays its status

NEW OIL	10L
OLD OIL	2L
ADDITIVE TANK	EMPTY/FULL
GENERIC ATF	34°C

Press ENTER/START.

The display shows the following message :

SET THE OIL TYPE AND AMOUNT	
→GENERIC ATF	
NEW OIL	10.0L

Use UP/DOWN buttons to set the type of oil that you are using

Press ENTER/START to confirm the choice.

The display shows the following message :

SET THE OIL TYPE AND AMOUNT	
GENERIC ATF	
→ NEW OIL	10.0L

Use UP/DOWN buttons to set the quantity of oil necessary for pop up

Press ENTER/START to confirm the choice.

The display shows the following message :

FLUID POP UP IN PROGRESS	
↑ 0.9 L	SET 3.7L



Once the value of ↑ arrive at the same value of SET, the fluid pop up function is complete.
The display shows the following message :

**OPERATION
COMPLETED
CHECK THE TRANSMISSION
FLUID LEVEL 34°C**



NOTE

Always check level with engine running, taking into account fluid temperature and manufacturer's indications.

6.2.2 FLUID DRAIN

This function is used to discharge oil from the gearbox (usually to make correct level)

- Select FLUID DRAIN using selection keys.
- Press ENTER/START button to confirm.

The display shows the following message :

**TURN ON ENGINE
BEFORE STARTING THE
PROCEDURE**

Once you turned ON engine, press ENTER/START to confirm

On the display of SPEED 2000, you may see the message:

**OIL TEMPERATURE TOO LOW
WAIT FOR WARMING**

22°C----->30°C

This message will appear only if the oil temperature is lower than 30 ° C.

SPEED2000 automatically continue to the next step when the oil temperature will exceed 30 ° C.



If you are sure that car don't have thermovalve, press ENTER/START to skip waiting time.
After pressing enter/start, SPEED2000 displays the following message:

**SET AMOUNT OF
FLUID TO DRAIN**

→ USED 0.5L

Use UP/DOWN buttons to set the amount of oil to be discharged
Press ENTER/START to confirm the choice.
The display shows the following message:

NEW 12.5L
USED 3.6L
↓ 0.2 L SET 0.4L

Once the value of ↓ arrive at the same value of SET, the fluid drain function is complete.
The display shows the following message :

**OPERATION
COMPLETED**
**CHECK THE TRANSMISSION
FLUID LEVEL 34°C**



NOTE

Always check level with engine running, taking into account fluid temperature and manufacturer's indications.

6.2.3 ADDITIVE

This function is used to inject cleaning/protective additive into gearbox

- Select ADDITIVE using selection keys.
- Press ENTER/START button to confirm.

The display shows the following message :



**LOAD ADDITIVE INTO
ADDITIVE TANK**

Load additive into auxiliary tank (14) and press ENTER/START to inject it in the automatic transmission.
The display shows the following message :

ADDITIVE INJECTION

WAIT...

Once the operation is finished, the display shows the following message :

**OPERATION
COMPLETED**

6.2.4 FLOW CONTROL

- Select FLOW CONTROL using selection keys.
- Press ENTER/START button to confirm.

The display shows the following message :

**TURN ON ENGINE
BEFORE STARTING THE
PROCEDURE**

Once you turned ON engine, press ENTER/START to confirm
On the display of SPEED 2000, you may see the message:



**OIL TEMPERATURE TOO LOW
WAIT FOR WARMING**

22°C----->30°C

This message will appear only if the oil temperature is lower than 30 ° C.

SPEED2000 automatically continue to the next step when the oil temperature will exceed 30 ° C.

If you are sure that car don't have thermovalve, press ENTER/START to skip waiting time.

After pressing enter/start, SPEED2000 displays the following message:

OIL FLOW IDENTIFICATION

WAIT PLEASE

After oil flow identification, SPEED2000 will display the result of the operation

OPERATION COMPLETED

OIL FLOW IDENTIFIED

OPERATION COMPLETED

**OIL FLOW NOT
IDENTIFIED**

6.2.5 SUMP DRAIN

This function is used to have the possibility to weight the oil that you discharge from the sump during gearbox filter change. Proceed in this way:

- Keep the tap (12) of the funnel closed.
- Place SPEED2000 with funnel (13) under the sump



- Take out the tap of the sump and discharge all oil
 - Take out the sump and put the remained oil into the funnel
- Select SUMP DRAIN using selection keys.
 - Press ENTER/START button to confirm.

The display shows the following message :



Open the tap (12) of the funnel in order to discharge the oil into the used oil tank. The scale of SPEED2000 will weight the disharged oil and will give you the amount.

Once the the operation is finished, the display shows the following message :



↓ - Indicates the quantity of the oil that you discharged from the pan

7 SERVICE



- Select SERVICE using selection keys.

The display shows the following message:



→LANGUAGE
NEW FLUID TARE
USED FLUID TARE
MACHINE PRIMING
CLEANING TIME
CYCLE COUNTER

7.1 LANGUAGE

This function is used to choose your language

- Select LANGUAGE using selection keys.
- Press ENTER/START button to confirm.

The display shows the following message :

→ENGLISH
ITALIANO
ROMANA
NEDERLANDS

- Select the desired language with selection keys.
- Press ENTER/START button to confirm.

7.2 NEW FLUID TARE

This function is used to make tare of new oil tank (usually if you use a tank that is different from the original)

- Select NEW FLUID TARE using selection keys.
- Press ENTER/START button to confirm.

The display shows the following message :

LOAD EMPTY NEW
FLUID TANK FOR
CALIBRATION



- Put on the scale the new fluid empty tank
- Press ENTER/START to continue and wait.

After few seconds, the display shows the following message:

TARE COMPLETED

7.3 USED FLUID TARE

This function is used to make tare of used oil tank (usually if you use a tank that is different from the original)

- Select USED FLUID TARE using selection keys.
- Press ENTER/START button to confirm.

The display shows the following message :

**LOAD EMPTY USED
FLUID TANK FOR
CALIBRATION**

- Put on the scale the used fluid empty tank
- Press ENTER/START to continue and wait.

After few seconds, the display shows the following message:

TARE COMPLETED

7.4 MACHINE PRIMING

- Select MACHINE PRIMING using selection keys.
- Press ENTER/START button to confirm.

The display shows the following message :

**LOAD AT LEAST 3,5 L
OF NEW OIL AND
COUPLE THE HOSES**

- Insert in the new oil tank at least 3,5 liters of oil and couple the pipes of SPEED2000 using suitable fittings.
- SPEED2000 will activate the internal pump for circulation of the oil. At this stage it is possible to discharge any air in the circuit through the tap positioned above the container for old oil (FIG. 1).

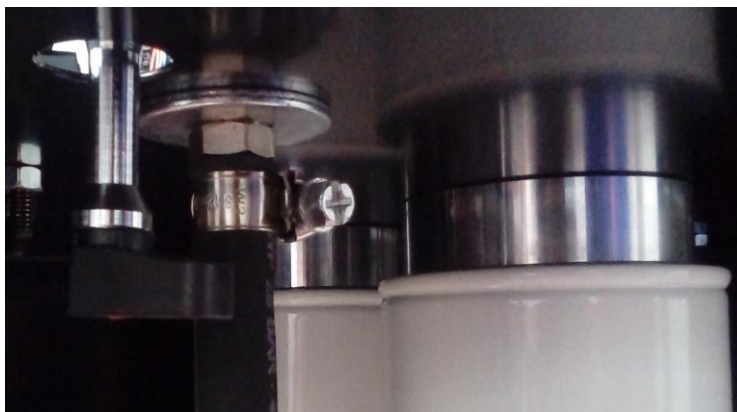


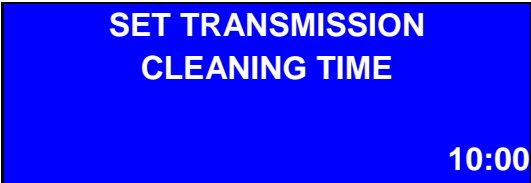
Fig. 1

7.5 CLEANING TIME

This function is used to change the standard cleaning time (10min)

- Select CLEANING TIME using selection keys.
- Press ENTER/START button to confirm.

The display shows the following message :



- Use UP/DOWN button to set the cleaning time suggested by manufacturer of additives that you are using
- Press ENTER/START to save the desired cleaning time.



NOTE

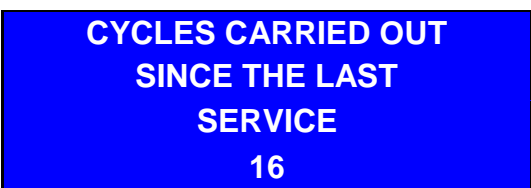
Cleaning additives are very aggressive. You must always follow instructions of manufacturer. Pay attention to not exceed the cleaning time

7.6 CYCLE COUNTER

This function is used to see how many cycles you made since the last Service

- Select CYCLE COUNTER using selection keys.
- Press ENTER/START button to confirm.

The display shows the following message :





8 PRINT (Only for models with printer)

- At the end of each automatic cycle and manual function, SPEED2000 print details of recently completed operations.

The automatic cycle printing detail displays the following values:

- Oil type selected
- Oil quantity set
- Cleaner injected
- Circuit cleaning
- Additive injected

TOP AUTO SPEED2000	
OIL TYPE	GENERIC ATF
NEW OIL	10,0L
CIRCUIT CLEANING	YES
ADDITIVE INJECTED	YES
FLUID POP UP	0,9L
FLUID DRAIN	0,3L
FLOW IDENTIFICATION	YES

9 MAINTENANCE OF SPEED2000



CAUTION: All maintenance operations must be performed with the machine disconnected from power supply and from the vehicle. We recommend you to wear personal protection gear and comply with current workplace safety regulations.

To enable correct unit operation and ensure reliability over time, it is very important to follow the indications provided below:

- Excessive vibrations can shorten the lifetime of the various components, affect measuring accuracy and invalidate the machine's warranty.
- Use the tool tray only to replace the adapter.
- Clean the unit's casing with non harsh and non abrasive products such as neutral soap or surface detergents. DO NOT use solvents, they can damage the paint.
- Do not leave the unit exposed to sunlight and to the weather. Excessive exposure to sunlight or

humidity can cause a malfunction.

- The unit should not be used as a trolley to transport other equipment.
- If the unit needs to be transported in a vehicle, remove the fluid from the auxiliary tank, the new fluid tank and old fluid tank.
- When handling the unit avoid violent bumping.
- Periodically check condition of filters and connection hoses.

In case of worn hoses, replace them immediately with new ones to prevent possible problems.

9.1 Oil filters maintenance

After 50 automatic and complete cycles, you must replace the two filters inside the machine. SPEED2000 show on display the filters replacement message from the 45th automatic cycle completed



NOTE

Use only original filters.

9.2 Replacing printer paper

To change the paper roll, proceed as follows:

- Open the printer panel as shown on Figure 1;
- Place the paper roll and ensure that the paper unrolls in the right direction as shown on Figure 2;
- Pull out some of the paper as shown on Figure 3 and close the panel;
- The printer is ready

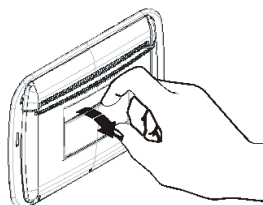


Figure 1

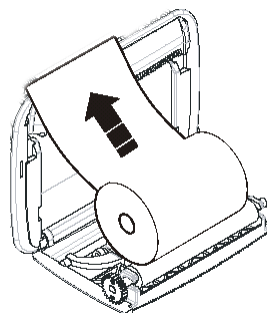


Figure 2

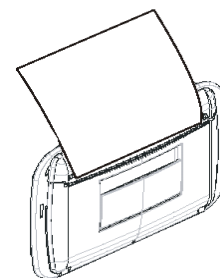
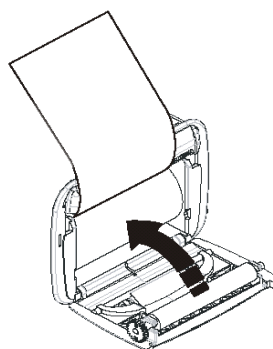


Figure 3



9.3 Information about residual risks

The residual risks that persist, although all protection measures integrated in the machine design have been followed and although all protections and complementary protection measures have been followed, are:

- OVERTURNING

If the operator doesn't respect the obligation, required in the manual, to follow through the movement of the machine and to stop it during the use, he can be injured by the machine because of overturning.

- DIRECT CONTACT WITH ELEMENTS IN TENSION

If the operator doesn't respect the obligation, required in the manual, to disconnect the power supply before intervening inside the machine, he can be injured by the machine because of direct contact with elements in tension.

FINAL NOTES

The pictures inside this manual are given just as an indication. TOP AUTO Srl will have the faculty of modify the models described in this printed copy at anytime and without any previous notice, because of technical and/or commercial reasons.

10 ACCESSORIES AND SPARE PARTS

Code	Description	adaptors
TOP KIT 1001 13.993	KIT OF STANDARD FITTINGS	
TOP KIT 13.998	COMPLETE KIT OF FITTINGS	


CODE	VEHICLE	PHOTO
13.001	MALE FITTING VOLVO (C30-C70-S40-S60-S70-S80-V40-V50-V70)	
13.002	FEMALE FITTING VOLVO (C30-C70-S40-S60-S70-S80-V40-V50-V70)	
13.003 OPTIONAL	PSA GROUP – RENAULT - FIAT	
13.004 OPTIONAL	VW DSG	
13.005	MALE FITTING VOLVO - GM - FIAT – FORD - RENAULT - JEEP – OPEL -CHRYSLER - LANCIA - MERCEDES	
13.006	FEMALE FITTING VOLVO - GM - FIAT – FORD - RENAULT - JEEP – OPEL -CHRYSLER - LANCIA - MERCEDES	

13.007	JEEP – NISSAN - MITSUBISHI – LAND ROVER- KIA - LEXUS	
13.008 OPTIONAL	MALE FITTING VAG	
13.009 OPTIONAL	FEMALE FITTING VAG	
13.010 OPTIONAL	ALFA ROMEO	
13.014	MALE FITTING BMW – LAND ROVER - JAGUAR	
13.015	FEMALE FITTING BMW – LAND ROVER - JAGUAR	
13.016	MALE FITTING SAAB MERCEDES	
13.017	FEMALE FITTING SAAB MERCEDES	
13.018	MALE FITTING BMW – LAND ROVER – JAGUAR - MERCEDES	
13.019	FEMALE FITTING BMW – LAND ROVER – JAGUAR - MERCEDES	
13.020	MALE FITTING BMW – LAND ROVER – JAGUAR	

13.021	FEMALE FITTING BMW – LAND ROVER – JAGUAR	
13.022	MALE FITTING BMW – LAND ROVER – JAGUAR	
13.023	FEMALE FITTING BMW – LAND ROVER – JAGUAR	
13.024	MALE FITTING VOLVO	
13.025	FEMALE FITTING VOLVO	
13.028	RACCORDI VAG (2x1)	
13.029	MALE FITTING VOLVO (XC60-XC70-XC90)	
13.031	FEMALE FITTING VOLVO (XC60-XC70-XC90) - ALFA ROMEO 156 JTD	
13.032	MALE FITTING AUDI (100-A4-A5-A6-A8) VW (BEETLE-PASSAT-PHAETON-TIGUAN-TOUAREG)	
13.033	FEMALE FITTING AUDI (100-A4-A5-A6-A8) VW (BEETLE-PASSAT-PHAETON-TIGUAN-TOUAREG)	
13.034	MALE FITTING MERCEDES (except A class and B class)	

13.035	FEMALE FITTING MERCEDES (except A class and B class)	
13.036	MALE FITTING BMW SERIES 1- LAND-ROVER - JAGUAR	
13.037	FEMALE FITTING BMW SERIES 1- LAND-ROVER - JAGUAR	
13.038	MALE FITTING BMW – LAND ROVER - JAGUAR	
13.039	FEMALE FITTING BMW – LAND ROVER - JAGUAR	
13.040	1/4 PIPE	
13.041 OPTIONAL	1/4 HOSE ADAPTOR	
13.043	1/2 PIPE - BMW-CHEVROLET- HONDA-HYUNDAI-JAGUAR-JEEP- KIA-LAND ROVER-LEXUS- MITSUBISHI- OPEL- ROVER- SUZUKI-TOYOTA	
13.044 OPTIONAL	1/2 HOSE ADAPTOR	
13.045	3/8 PIPE - ALFA ROMEO 156 1.6 and 166	

13.046	3/4 PIPE - HONDA-HYUNDAI-KIA- LEXUS	
13.047 OPTIONAL	FAST FITTING 90°	
13.048	NISSAN - DAIHATSU – SUZUKI - VAG	
13.049	GEARBOXES LIKE FIAT - LANCIA – FORD – NISSAN –CITROEN – ALFA ROMEO	
13.050 OPTIONAL	RACCORDO PSA	
13.051 OPTIONAL	DIPSTICK	
13.053 OPTIONAL	AUDI PORSCHE ADAPTOR	
13.054 OPTIONAL	BMW 6HP ADAPTOR	
13.056 OPTIONAL	BMW 8HP MALE ADAPTOR	
13.057 OPTIONAL	BMW 8HP FEMALE ADAPTOR	

13.058 OPTIONAL	NISSAN – RENAULT – MITSUBISHI ADAPTOR	
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Accessories and Spare Parts on request

NOTE



Use only original spare parts and accessories; failure to do so invalidates the warranty.

To order the required part please contact the Dealer closest to you.

Code	ATF EXTRA PARTS	
68.001	CARTRIDGE FILTER 10 MICRON	
40.008	LOAD CELL 60 Kg CABLED	
69.002	3 WAYS SOLENOID VALVE 12V DC TYPE A	
69.003	3 WAYS SOLENOID VALVE 12V DC TYPE O	
40.009	ATF 2 CPU BOARD	
69.001	12 V DC OIL PUMP	
40.007	PRINTER RS232 5V	
78.006	KIT ADDITIVE TANK WITH LEVEL SENSOR	
70.006	ONE-WAY VALVE 1 / 4G	
78.003	TANK 25 LITERS FOR NEW/EXHAUSTED OIL	
13.030	SPRING REPLACEMENT VOLVO (XC60-XC70-XC90)	
68.002	ADAPTORS for MMTc-TE 100 COMPREHENSIVE OF SERVICE TECHNIC SPECIFICATIONS	
70.007	EXTENSION HOSE FOR SPEED2000 – 2.5 M LENGHT	



11 PROCEDURES

This chapter explains the procedures to be followed for different types of Automatic transmissions:

- Automatic transmission with internal filter
- Automatic transmission with external filter
- Automatic transmission with the filter inside the pan

11.1 Procedure for automatic transmission with internal filter

1. Find the point of connection BETWEEN GEARBOX AND HIS RADIATOR
2. Check for the suitable connectors
3. Disconnect the pipes from gearbox/radiator and connect the connectors
4. Connect the station to the connectors (the way of connection is not important as the station have an AUTOMATIC CHECKING OF THE FLOW)
5. Check the level of the oil before proceed with automatic procedure (if the oil level is low, do an fluid top up before proceed)
6. Start the function AUTOMATIC CYCLE
7. Choose the quantity of oil to be changed (set 0,5 - 1 liters more than the capacity of gearbox)
8. FOLLOW THE INSTRUCTION OF SPEED1000 step by step
9. Do a final check of the level of the oil
 - if the oil into the gearbox is too low - do a FLUID POP UP since you reach the right level
 - if the oil into the gearbox is too high - do a FLUID DRAIN since you reach the right level (this operation can be done also through oil level check point)

IMPORTANT ADVICES:

- **The oil level check must always be done with the CAR TURNED ON AND THE GEARBOX IN P (PARK)**
- **During the FLUSHING phase, change the gears keeping every gear for 10 seconds**
- **During the EXCHANGE OF THE OIL phase, change the gears keeping every gear for 10 seconds**



11.2 Procedure for automatic transmission with external filter

1. Find the point of connection BETWEEN GEARBOX AND HIS RADIATOR
2. Check for the suitable connectors
3. Disconnect the pipes from gearbox/radiator and connect the connectors
4. Connect the station to the connectors (the way of connection is not important as the station have an AUTOMATIC CHECKING OF THE FLOW)
5. Check the level of the oil before proceed with automatic procedure (if the oil level is low, do an fluid top up before proceed)
6. Start the function AUTOMATIC CYCLE
7. Choose the quantity of oil to be changed (set 0,5 - 1 liters more than the capacity of gearbox)
8. FOLLOW THE INSTRUCTION OF SPEED1000 step by step
9. When the exchange of the oil is finished, change the filter of the gearbox
10. Do a final check of the level of the oil
 - if the oil into the gearbox is too low - do a FLUID POP UP since you reach the right level
 - if the oil into the gearbox is too high - do a FLUID DRAIN since you reach the right level (this operation can be done also through oil level check point)

IMPORTANT ADVICES:

- **The oil level check must always be done with the CAR TURNED ON AND THE GEARBOX IN P (PARK)**
- **During the FLUSHING phase, change the gears keeping every gear for 10 seconds**
- **During the EXCHANGE OF THE OIL phase, change the gears keeping every gear for 10 seconds**



11.3 Procedure for automatic transmission with the filter inside the pan

1. Find the point of connection BETWEEN GEARBOX AND HIS RADIATOR
2. Check for the suitable connectors
3. Disconnect the pipes from gearbox/radiator and connect the connectors
4. Connect the station to the connectors (the way of connection is not important as the station have an AUTOMATIC CHECKING OF THE FLOW)
5. Check the level of the oil before proceed with automatic procedure (if the oil level is low, do an fluid top up before proceed)
6. Start the function AUTOMATIC CYCLE
7. Choose the quantity of oil to be changed (set 0,5 - 1 liters more than the capacity of gearbox)
8. FOLLOW THE INSTRUCTION OF SPEED1000 step by step
9. When the exchange of the oil is finished, TURN OFF THE ENGINE OF THE CAR

FROM THIS MOMENT THE CAR MUST BE TURNED OFF

10. Place SPEED2000 with its funnel under the pan of the gearbox
11. Take out the tap from the pan to release all oil
12. Take out completely the pan
13. Change the filter of the gearbox with the new one
14. Before remount the pan, change the gasket, magnets, or the entire pan, as requested by manufacturer
15. Remount the pan
16. With the function FLUID POP UP, inject the quantity of oil that you took out + 1 liter more



17. Now you can TURN ON THE CAR and change some gears to permit oil to go in all parts of the gearbox

18. Do a final check of the level of the oil

- if the oil into the gearbox is too low - do a FLUID POP UP since you reach the right level
- if the oil into the gearbox is too high - do a FLUID DRAIN since you reach the right level (this operation can be done also through oil level check point)

IMPORTANT ADVICES:

- **The oil level check must always be done with the CAR TURNED ON AND THE GEARBOX IN P (PARK)**
- **During the FLUSHING phase, change the gears keeping every gear for 10 seconds**
- **During the EXCHANGE OF THE OIL phase, change the gears keeping every gear for 10 seconds**

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