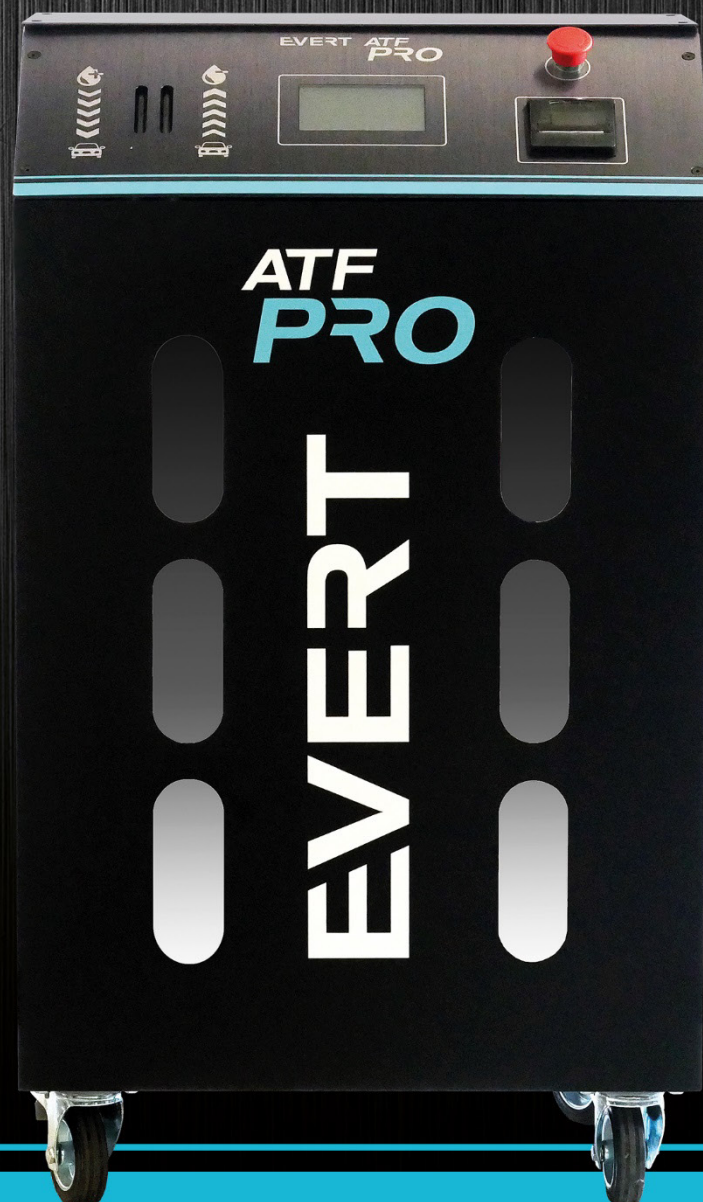


# EVERT

## EVERT ATF Pro

Device for dynamic automatic transmission fluid change



# USER'S MANUAL

## IMPORTANT!



**Before starting up the unit, read the following instructions.**

Before packaging, each unit has been evaluated for hydraulic performance and correct operation and may therefore have fluid marks on the hydraulic lines.

The manufacturer is not responsible for failures, faults or other consequences caused by improper use of the device.

The manufacturer is not responsible for any consequences caused using the device not in accordance with its intended use.

The manufacturer is not liable for any consequences resulting from non-compliance with the health and safety regulations for car workshops.

It is forbidden to sell the device to individuals. The device may only be placed on the professional market, the buyer of the device may only be an entrepreneur.

This manual must be kept close to the equipment so that operators have easy access to it.

The manufacturer reserves the right to upgrade its devices at any time and without prior notice.

The names of other products and companies mentioned in the following document may be trademarks registered by their respective owners.

It is the operator's responsibility to check the operating condition of the unit and the amount of fluid overflow in the unit's tanks. In the event of a failure of the device, switch off the vehicle engine immediately and stop servicing. Do not use the device if it is faulty. The manufacturer is not liable for any consequences resulting from failure to comply with the obligations of the user of the device.

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# 1. Safety rules.

## 1.1. The device.

Read the following documentation carefully before using the device.



**Failure to comply with the information contained in this document may result in damage to the device or reduce the safety of use.**

Do not remove or destroy plates, signs informing about danger, containing prohibitions or orders.

The device may only be powered by the power source specified in this documentation and on the name plate.



**Remove the caps from the fluid lines before using the unit. Do not remove the metal fluid nipple from the suction hose (Figure 2, para. 13).**

The device may only be operated by appropriately trained personnel.

No smoking or use of any fire source is allowed in the vicinity of the unit or the vehicle.

The unit must be protected from direct sunlight and rain.

Do not move the device by pulling on the hydraulic hoses or power cables. Exceptional care must be taken to ensure that the wheels are unlocked when moving the device. The device may only be moved on flat even surfaces that allow the wheels of the device to turn smoothly. Be particularly careful, as failure to follow these recommendations may cause the device to tip over, for which the manufacturer cannot be held responsible.

Do not use the device to transport other objects.

During transport and handling, make sure that there are no other objects on the device.

Maintenance of the device should only be performed by trained personnel.

Do not clean the device with chemicals that may damage the coating, control panel components, or display. The display should be cleaned with a damp cloth.

The device has been sealed inside and out. Unauthorised persons are not allowed to open the device. Any interference with the internal components of the device, opening of the housing or damage to the seals will void the warranty.

While performing the dynamic oil change procedure and using the device, the started vehicle emits harmful gases, therefore it is necessary to perform work only in well-ventilated rooms, using protective clothing, glasses, masks, exhaust extraction, in accordance with health and safety regulations. In addition, the workplace should be dry and well lit.

Before connecting the unit, pay particular attention to the hot components in the engine compartment, transmission housing, engine cooler, ATF cooler, hydraulic hoses and other components that may cause burns. Connect the device to the vehicle only after making sure that there is no risk of burns or injury.

When the device is in use, the ATF fluid flowing through the device heats up, causing the temperature of hoses, filter, quick couplings, adapters, and housing to rise.

Careless use of hot components such as hydraulic hoses, connections, vehicle components, etc. can cause burns. Pay special attention to protecting the eyes from possible hot liquid jets. Observe the applicable health and safety regulations.

When using the device, pay special attention to rotating elements, e.g., fans of the car engine cooler. Please note that these elements, e.g., the fan, can be activated even if the key is removed from the ignition. As a precautionary measure, when connecting the device, it is recommended to disconnect the vehicle's battery if possible. Observe the applicable health and safety regulations and the vehicle manufacturer's recommendations.

When using the device, keep the hydraulic hoses and power cables away from rotating parts – fans, etc. Observe the applicable health and safety regulations.



**The operator of the device is obliged to have the necessary expertise in automatic transmission maintenance in order to avoid damage to the car by improper use of the device.**

Keep a safe distance when lifting the vehicle. It is forbidden for third parties to stand near the lift while the vehicle is being lifted. Do not place the device underneath the vehicle on the lift. Observe the applicable health and safety regulations.

Any fluid leaks must be removed to prevent slipping. Observe the applicable health and safety and environmental protection regulations.

If noise exceeds the legal limits, use suitable hearing protectors.

Do not lean against, displace, or move the device during operation, as this may cause the amount of new and used fluid to be read off in a distorted way. Do not stand, position any objects on the device or use the device to support other objects.



**When used correctly and in accordance with the manual supplied with the device, the device does not constitute a hazard to operators. The manufacturer is not responsible for failures or other consequences resulting from improper use.**

## 1.2. Disposal.

Separate electrical, plastic and metal parts before discarding the device. Remove any residual ATF from the device components. Dispose of materials in containers or dispose of in accordance with local regulations.

## 2. Key features.

Power supply:

- 12 to 15 VDC,
- Power consumption: 1-35 A.

Display:

- 5",
- colour,
- tactile – resistive.

Printer:

- thermal.

Controller:

- manages the entire system, including the pump supply.

Hydraulic capacity:

- flow rate: 0-7.5 l/min,
- maximum pressure generated by the device: 10 bar,
- maximum operating pressure: 10 bar.

Maximum permissible weight/fluid tray load: 50 kg.

Dimensions (H/W/D): 110/60/47 cm.

Weight of dry unit including filter: approx. 90 kg.

Permissible ambient temperature (storage and use): 15-50°C.

Permissible ATF temperature: 10-90°C.

### 3. Description.

The EVERT ATF Pro dynamic ATF change device has been developed and designed by Polish engineers based on practical experience in dynamic ATF changes and market demand.

The unit has an automatic fluid flow control system during dynamic oil changes, so that the steps required during dynamic changes are significantly reduced. Once the process has started, the unit automatically changes the fluid flow, adapting to the vehicle's transmission conditions in such a way that the fluid change is quick and efficient, regardless of pressure or temperature differences. This eliminates the need to control the pressure manually. Moreover, the unit monitors whether the amount of new fluid and the amount of space in the old fluid tank is sufficient for the oil change process.

The old and new oil tanks can be easily exchanged in the unit. A basic set of adapters for dynamic replacement is included. The extended adapter kit is available separately. Ask your distributor about availability.

A 12-15 VDC power supply ensures mobility and the ability to conduct dynamic oil changes independently of the power grid.

The large and easy-to-read 5" colour display ensures good readability and ease of use of the device. Since it is made with resistive technology, it is pressure sensitive, which ensures its reliability, even when handled with dirty or wet hands. The device has a multilingual menu (Polish, English, German), depending on the settings selected.

With the built-in temperature sensor, the unit continuously displays the approximate transmission fluid temperature on the display.

The unit uses a pump that is capable of generating a pressure of 10 bar, which enables the dynamic oil change process, regardless of where the unit is plugged and even in the case of partially clogged transmission cooling system components. With a pump output of up to 7.5 l/min, the dynamic change process is quick and efficient.

The filter system of the unit is separated from the main ATF fluid circuit, so there is no danger of the old fluid in the unit being injected into the automatic transmission being serviced.

The device offers the following functions:

- **detergent dosing** – allows for the application of a special aggressive chemical for increased efficiency of the rinsing process; note that some manufacturers prohibit the use of such rinse agents in their transmissions,
- **draining oil** – the unit allows some of the fluid to be drained from the transmission, e.g., when checking the fluid level after the dynamic fluid change process, and additionally displays the amount of drained fluid,
- **adding oil** – allows for fluid to be added to the transmission while displaying the amount of fluid added,
- **flushing/filtration** – the unit has an efficient filtering system that separates solid contaminants from the automatic transmission system and has a programmable flushing time,
- **dynamic oil change** – automatically conducts the dynamic oil change process, controlling the amount of fluid transferred.

The unit is equipped with a thermal printer that prints out the workshop data (stored in the unit's memory), the data of the vehicle being serviced, the amount of fluid used, the flushing time, the type of oil selected and the amount of oil drained or added, if any.

### 3.1. Device parts.



Figure 1. Front view of the device.

- 1 – Top of the case.
- 2 – Colour touchscreen display.
- 3 – Main switch.
- 4 – Thermal printer.
- 5 – Holes for visual monitoring the ATF fluid level in the tanks.
- 6 – Castors with brake.
- 7 – Sight glasses to check fluid quality and flow direction.

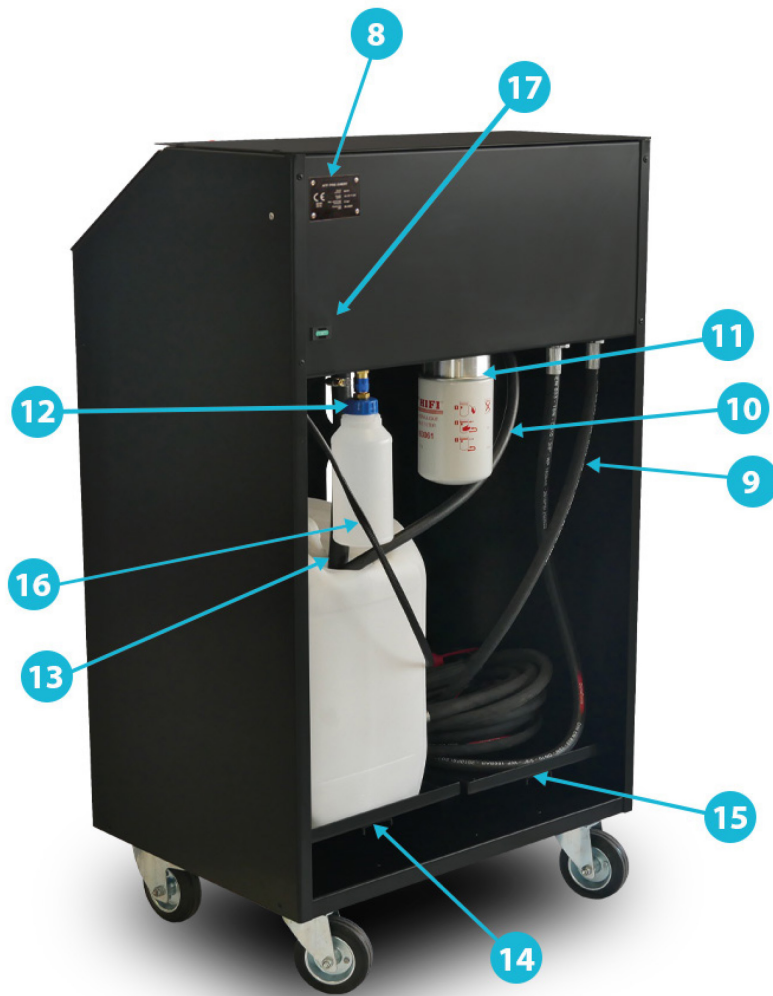


Figure 2. Rear view of the device.

- 8 – Nameplate.
- 9 – Connection wires of the device to the transmission.
- 10 – Hose connected to the tank for old ATF fluid.
- 11 – ATF fluid filter.
- 12 – Tank with quick-release coupling for detergent feed.
- 13 – New ATF fluid suction line.
- 14 – Weight/tray of new ATF fluid.
- 15 – Weight/tray of old ATF fluid.
- 16 – Device power cords.
- 17 – Fuse.

The unit has a colour touchscreen display (2) that the operator can control the relevant functions with.

The thermal printer (4) prints out details of the workshop, vehicle, detergent application, transmission flush time, amount of ATF fluid used for the dynamic change, amount of oil added, amount of oil drained.

Steel castors with brakes (6) allow the unit to be easily moved and securely immobilised.

The appropriately shaped upper housing (1) allows for easy and safe placement of lightweight items necessary when operating the unit, e.g., operating instructions, gloves, cleaning cloth.

A built-in hook makes it easy to secure the device's cables. The unit comes with two hooks, which must be fitted with the supplied rivets on two sides of the unit to the prepared holes.

Built-in oil sight glasses (7) allow the condition of the fluid in the automatic transmission to be visually assessed and compared to new fluid. In addition, sight glasses allow the manual detection and checking of the direction of fluid flow.

Long power and hydraulic hoses make it easy to hook up the unit.

The large ATF fluid weights/supports allow the use of different tanks.

The EVERT ATF Pro has an added external fuse (Figure 3) and a main switch (Figure 4). The unit is switched on by flipping the switch.



Figure 3. External fuse.



Figure 4. Main switch on the device.

## 3.2. Adapters included.

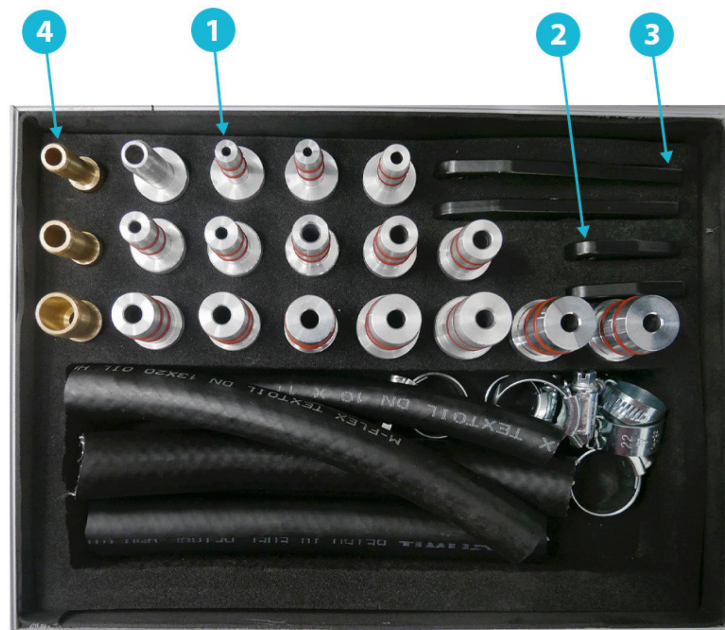


Figure 5. Adapters available with the device.

- 1 – Universal male connectors from 7.5 to 19.2 mm in diameter
- 2 – Mounting brackets short universal male connectors
- 3 – Long mounting brackets for universal male connectors
- 4 – Quick couplers

Plus, a set of **rubber hoses** and **hose clamps**.

The universal set of male connectors allows the connection of transmissions from various manufacturers, such as ZF (e.g., 4HP, 5HP, 6HP), Aisin-Warner (e.g., 50-40L, 50-42L, 55-50SN, TF-80SC) Getrag and others. The short mounting brackets allow the universal male connectors to be fitted to the transmission body or ATF fluid cooler. They have two types of length and different widths. Thanks to the combination of universal connectors and mounting brackets, the operator has a great deal of freedom when connecting the unit to the transmission, depending on the space available and the solutions used in the transmission.

The unit can be retrofitted with additional dedicated adaptors available separately.

## **4. Delivery, transport, and installation.**

### **4.1. Delivery and installation.**

Activities performed by the operator:

- Unloading the unit in accordance with current health and safety regulations.
- Removal and appropriate disposal of packaging.
- Checking that components and parts are intact. If necessary, contact your dealer immediately.

### **4.2. Transporting.**

The following rules shall be observed during transport:

- observe the applicable occupational safety regulations (especially those relating to objects with a total weight of approximately 90 kg),
- remove components, accessories or other parts that may hinder the movement of the device,
- persons not involved in the transport of the equipment should stay outside the working area,
- the unit's cabinet can be moved after unlocking the castor brakes, removing any parts from the top of the unit,
- moving the unit is only permitted on level surfaces. Large shocks and vibrations when moving it can damage it.

If transporting the device by car, make sure it is properly restrained and in an upright position before driving.

## 5. Unit preparation.

### 5.1. Vehicle preparation.

Once the vehicle has been placed on the lift, move the gear lever to the "P" parking position.



Ensure that there is sufficient ATF fluid in the transmission to conduct the servicing process with the unit. Always check the ATF fluid level in the transmission following the vehicle manufacturer's procedures after all activities.

### 5.2. Connecting to the transmission.

Plug the EVERT ATF Pro in series into the radiator and transmission circuit using the appropriate adapters (Figure 6.). The place of connection depends on the connections available and the availability of free space in the engine compartment. Once the appropriate adapters have been installed and the unit connected, the direction of fluid flow should be checked.



Figure 6. Method of attaching adapters to the transmission unit. Plugging into the fluid line of the transmission cooling system.

## 6. Operation.

### 6.1. Commissioning.

When starting the device for the first time:

- save the workshop data in the device memory,
- introduce volumes of ATF fluid containers,
- zero the scales,
- manually set the ATF fluid density to 850 g/l.

### 6.2. Start screen/main menu.

The unit features a 5" colour display with touch control. The screen works on the resistive principle, i.e., it is sensitive to pressure. As a result, the risk of interference caused by handling with gloves, or wet or dirty hands is minimised. Care should be taken not to press too hard on the screen during operation, as this may damage it. Do not operate the display with other objects (tools), except with a dedicated stylus.

When the EVERT ATF Pro is connected to the battery and switched on, a welcome screen is displayed. The user must then enter the PIN code to start using the device (Figure 7.). The PIN code is assigned individually for each device and must be retained for use. PIN code can be obtained by contacting your Inter Cars representative/dealer.

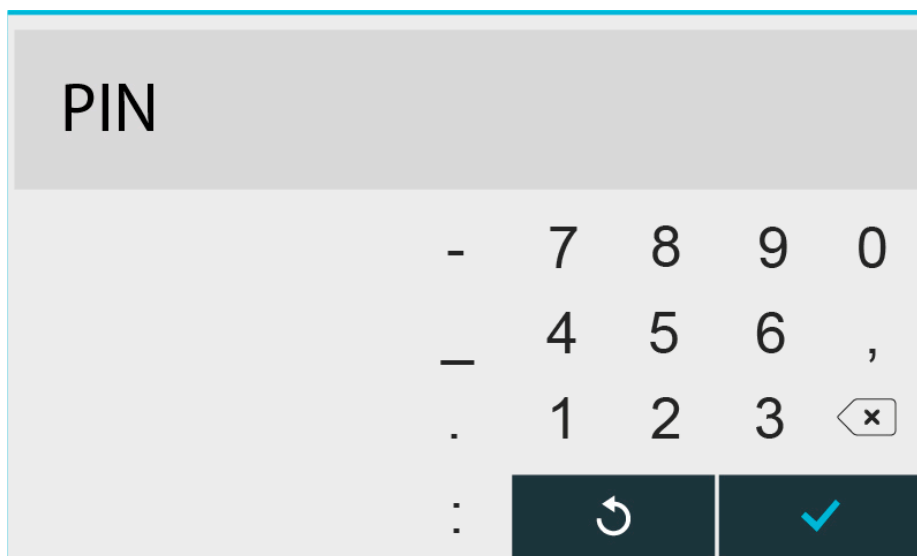


Figure 7. Screen for entering a PIN for the device.

The main menu screen will be displayed next (Figure 8.).

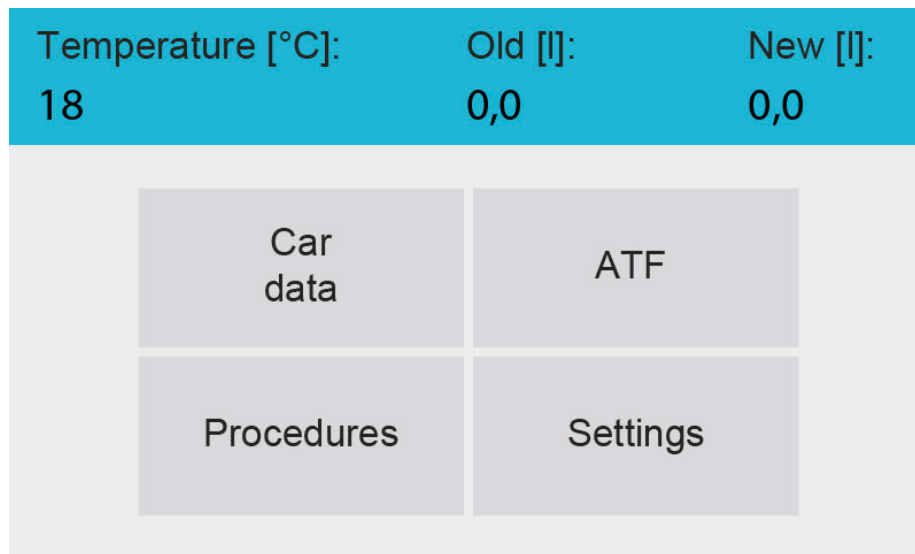


Figure 8. Main menu screen.

The display shows the manufacturer's logo, the temperature of the ATF fluid and the current weight reading with old and new ATF fluid expressed in litres.

Before each use of the device, you should:

- zero the scales together with the empty fluid tanks so that they indicate 0.0 (tare function is available in the "Settings" menu),
- select/insert the correct type of ATF fluid,
- check the direction of the ATF fluid flow in order to properly connect the unit,
- adjust the length of the new ATF fluid intake line (see section 6.13).

The ATF fluid temperature displayed by the controller is measured indirectly. The temperature sensor is placed between the fluid channels to reduce the influence of external factors on the temperature reading as much as possible. Nevertheless, it is important to note that the temperature displayed by the unit may differ from the actual temperature of the ATF fluid in the transmission.

## 6.3. Unit preparation.

### WARNING



**The unit should be powered from a 12-15 VDC source. Ensure that the power source is sufficient to fully operate the vehicle.**

If a vehicle battery is used to connect the EVERT ATF Pro: connect the black terminal to the negative (-) terminal and the red terminal to the positive (+) terminal.



**After starting, always ensure that there are empty fluid tanks on the scales/trays for new and old ATF fluid and then tare the scales using the "Taring" function in the "Settings" menu. After taring, ensure that the readings for the amount of new and old ATF fluid are 0.0. Otherwise, the zeroing must be repeated.**

Before using the unit, ensure that the volumes of the tanks used match the volumes stored in the unit's memory ("Settings" menu, "Oil containers' volume" function).

Place the suction line in the tank for the new ATF fluid, together with the fluid suction tip. Adjust the length of the suction line so that the fluid tip is as low as possible, but not touching the bottom of the container. If the fluid tip touches the bottom of the container, the unit will not function properly. The measurement of the amount of new fluid will be disturbed, causing the unit to malfunction.

Fill the new ATF fluid tank with an appropriate amount of fresh fluid. Ensure that the fresh ATF fluid tank and the old ATF fluid tank are in the centre of the scales/trays and do not touch the housing or other components. Failure to do so may cause malfunctions.

Using the "ATF" function in the main menu, enter manually or select from the database the type of ATF fluid used (found in the new ATF fluid container).

Using the "Car data" function, enter the data of the car being serviced. When entering the make or model, you can also enter the car's mileage and date of service.

Using the appropriate adapters, connect the unit to the transmission cooling system (Figure 6.).

### **6.3.1. Determining the direction of ATF fluid flow.**

The EVERT ATF Pro allows automatic or manual detection of ATF fluid direction. When the "Procedures" function is selected from the unit menu (Figure 8.), the unit will display a message on how to detect the direction of the fluid flow. Select "Manually" or "Automatically".

Once the "Automatically" function has been selected, connect the device to the transmission, start the car engine and press the accept button. At this point, the unit will automatically start detecting the direction of the fluid flow, which may take approximately 1 minute. Once the procedure is completed, the unit will inform the user of the direction of the fluid flow. If it is correct, you can continue using the device. If the direction of fluid flow is not correct, switch off the vehicle's engine and swap the hydraulic lines between each other.

In some transmissions, there may be difficulties in detecting the direction of fluid flow due to the design and software version of the transmission controller. In such cases, the fluid direction detection procedure must be repeated with reverse gear "R" engaged.

If it is still not possible to detect the direction of the fluid flow, perform the manual fluid direction detection procedure. To do this, start the vehicle's engine and observe the direction of ATF fluid flow in the sight glasses located on the main panel. ATF fluid should flow according to the arrows drawn on the panel. If the ATF fluid is flowing in the opposite direction, switch off the car engine, connect the unit's hydraulic lines in reverse (swap places) and check the direction of ATF fluid flow again.

Once the procedure for determining the flow direction has been completed, switch off the car engine.

Before servicing the vehicle, ensure that the fresh fluid tank contains the amount of new ATF fluid required for the change. **It is advisable to use two litres more ATF fluid than required for the change, as some of the fluid will not be pumped out of the new fluid tank.**

Ensure that there is sufficient space in the used fluid tank for the old ATF fluid pumped out during car servicing.

Care must be taken when filling and emptying the tanks.

## 6.4. Settings.

When the "Settings" function is selected, the screen presented below will appear (Figure 9.).

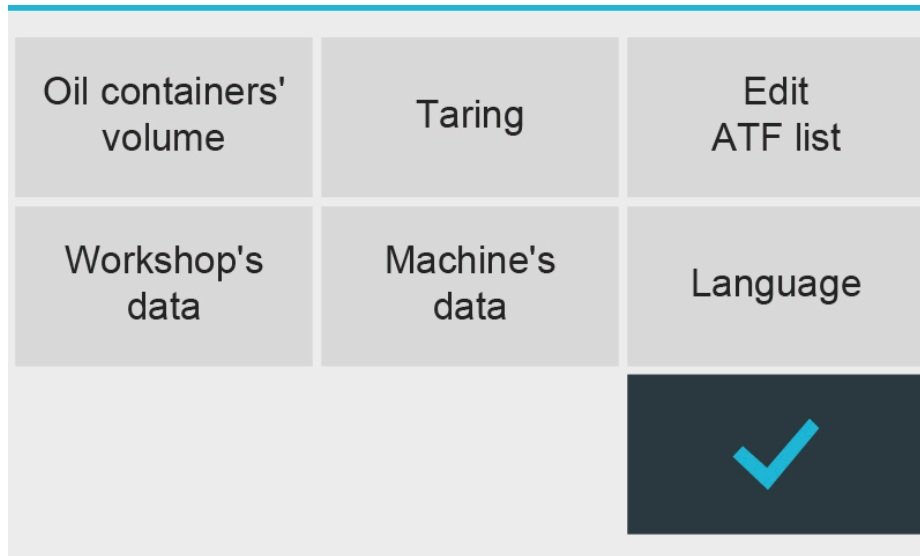


Figure 9. "Settings" menu screen.

### 6.4.1. Oil containers' volume.

The unit can work with different types of fluid containers. Before use, the capacity of the ATF fluid tanks used must be entered in the device settings.

Press the "Accept" button to save the settings.

### 6.4.2. Taring.

The tare function allows the scales to be reset to zero with old and new ATF fluid. Each time the unit is switched on, enter the "Settings" menu, place the empty containers to be used during the service on the scales for new and old ATF fluid, and then select the "Taring" function. Once taring is complete, the programme will automatically return to the main menu.

If tare empty scales are performed (with no containers present), there will be a misrepresentation in the actual amount of ATF fluid displayed by the instrument. The weight of the container (tare) will be interpreted by the controller as the weight of the fluid, resulting in an overestimation of the amount of fluid compared to reality. The amount of new ATF fluid available displayed by the controller will be greater than the amount actually in the tank of new ATF fluid. This may mislead the operator of the device. Also, the amount of old ATF fluid will be overstated. Warning of too little new ATF fluid or too little volume in the old ATF fluid container will then not work properly. It is therefore recommended that the scales are tared together with empty ATF fluid tanks. Even in the case of scales tared incorrectly as in the example above, the process of dynamically changing, draining or topping up the fluid will proceed correctly.

### 6.4.3. Workshop's data.

The device allows you to enter workshop data (Figure 10.), which will be stored and printed every time the device is switched on. The device allows the company name, address and telephone

number to be stored. When entering the workshop data, it is also possible to enter any additional data that fits on the display during entry. To make changes, press the “Accept and return” button.

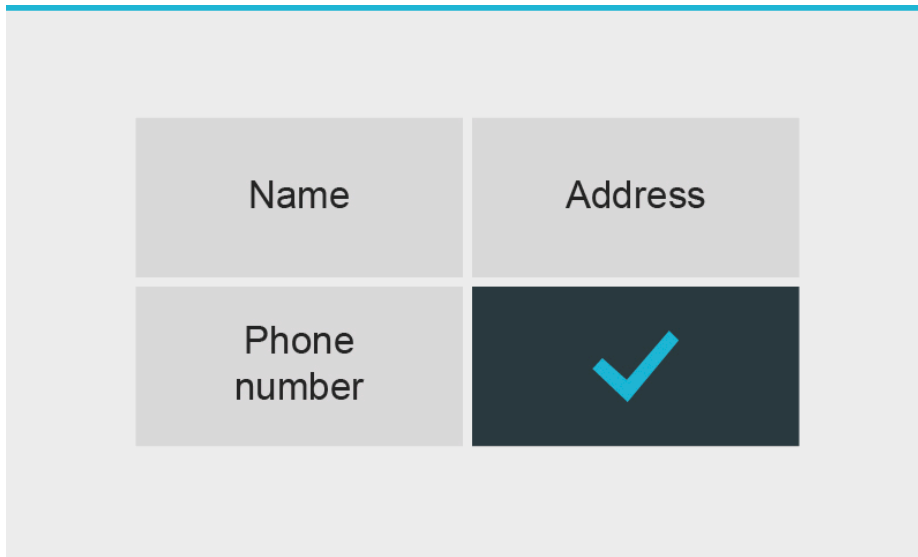


Figure 10. Workshop's data entry screen.

#### **6.4.4. Machine's data.**

When this function is selected, the device's serial number and software version will appear on the display.

#### **6.4.5. Edit ATF list.**

The device allows editing of the stored fluid list. After clicking on the “Edit ATF list” button, a list of fluids will be displayed. The user is free to edit the list. To change the name of the ATF fluid, press on the desired ATF fluid and then enter the name using the keypad. Then click on the ATF fluid density window and enter the density for the new fluid. Failure to enter or entering the wrong density will result in the unit incorrectly calculating the amount of fluid.

#### **6.4.6. Language.**

The device allows you to change the language by selecting from the menu. After accessing the "Settings" menu and pressing the "Language" button, the user will be presented with a list of available languages.

### **6.5. Entering the data of the vehicle being serviced.**

After selecting the "Car data" function from the main menu, the user can enter the brand, model and plate number of the car that is operated using the device (Figure 11.). The brand and model entered can be expanded to include vehicle mileage and the date of service. To accept the data entered, press the "Accept and return" button. The printer will then print the entered data on the receipt.

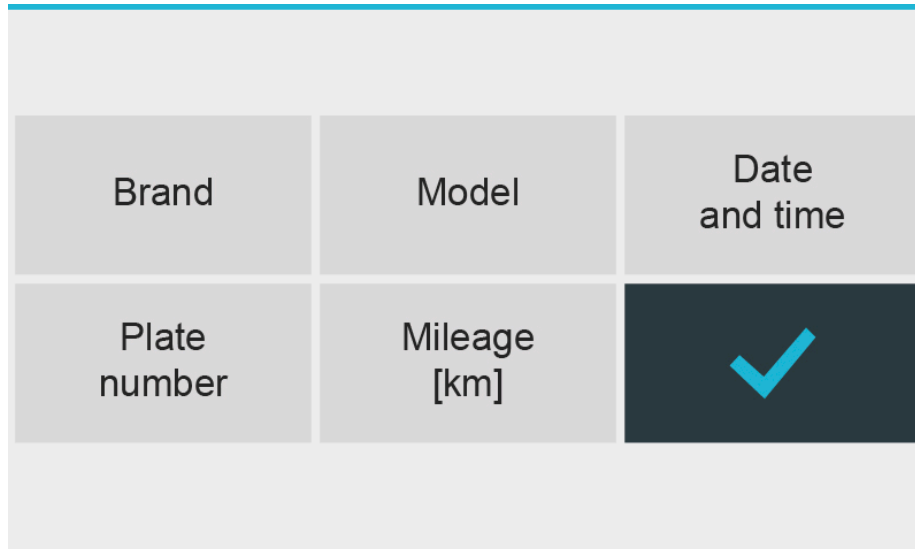


Figure 11. Vehicle data entry menu screen.

## 6.6. Data entry of the ATF fluid used.

Before using the unit, the type of ATF fluid to be used for servicing should be selected. When the "ATF" function is selected from the main menu, a screen will be displayed with information on the currently selected ATF fluid (Figure 12.).

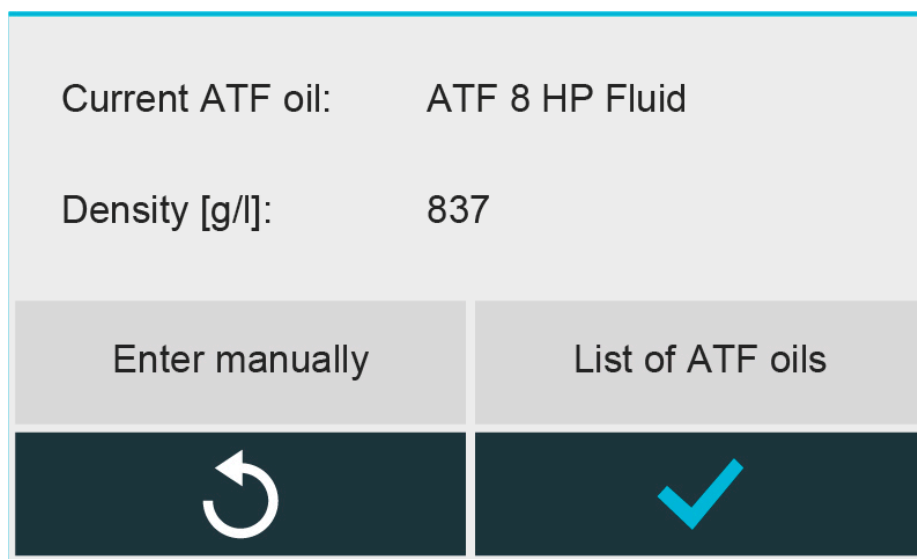


Figure 12. ATF fluid type selection screen.

The user can select the type of ATF fluid from the database by clicking on the "List of ATF oils" button or enter any ATF fluid manually by clicking on "Enter manually". This function maximises precision when feeding new fluid. If this step is skipped, the unit controller will default to the last selected ATF fluid type.

### 6.6.1. List of ATF oils.

When the "List of ATF oils" function is selected, a screen containing a list of ATF fluids is displayed (Figure 13.). For each type of fluid, its density in g/l (grams/litre) is displayed.

ATF 5/4 HP Fluid	849	▲
ATF 6 HP Fluid	835	
ATF 8 HP Fluid	837	↻
ATF T-IV Fluid	847	
ATF T-WS Lifetime	838	
CVT Fluid	838	▼

Figure 13. Extract from the ATF fluid database.

To select a specific ATF fluid, click on its name. This will return to the previous menu, where you will see the name and density of the selected ATF fluid at the top of the window (Figure 12.). Pressing the "Accept" button will return you to the main menu and print the ATF fluid data on the receipt. Only ATF fluids manufactured by Ravenol are included in the database.

### 6.6.2. Enter manually.

When the "Enter manually" function is selected, a screen is displayed with which the density (in g/l) and the name of the ATF fluid used can be entered (Figure 14., Figure 15.). Pressing the "Accept and return" button will return to the previous menu, where the name and density of the manually entered ATF fluid will be visible at the top of the screen (Figure 12.). Pressing the "Accept" button will return you to the main menu and print the ATF fluid data on the receipt.

Figure 14. Manual entry of ATF fluid data menu screen.

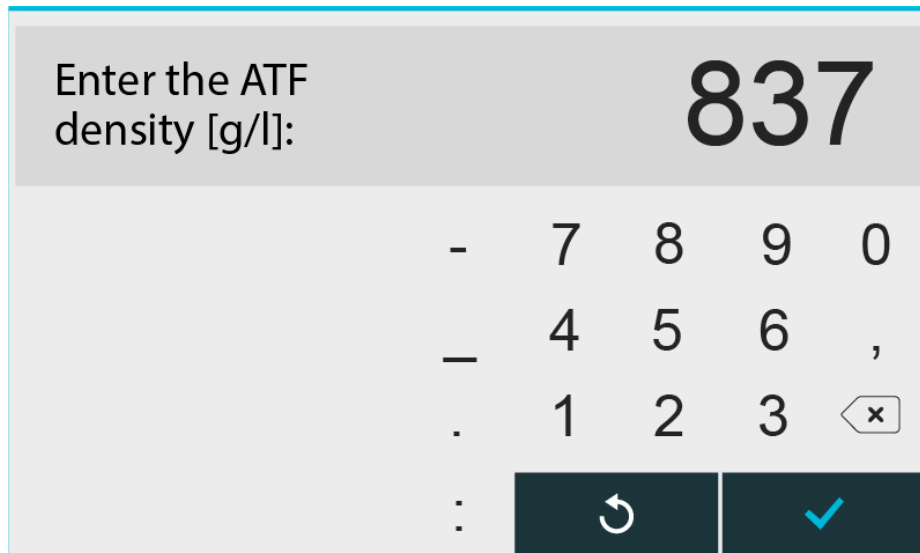


Figure 15. ATF fluid density input screen.

## 6.7. Procedures.

When the "Procedures" function is selected, a message is displayed to check the direction of ATF fluid flow (Figure 16.). The operator must decide whether to perform automatic flow direction detection or manual detection as instructed in section 6.3.1. (determining the direction of ATF fluid flow).

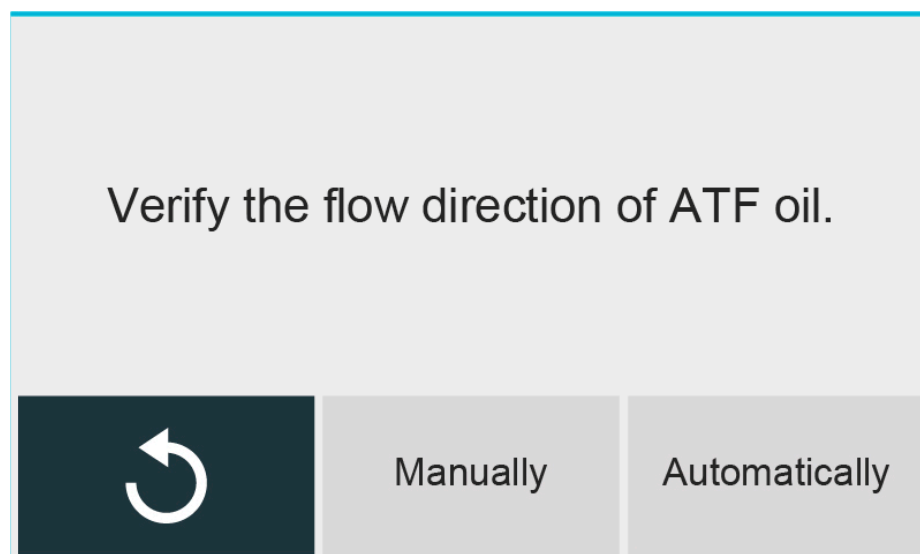


Figure 16. Information on the need to check the direction of ATF fluid flow.

When the fluid direction detection process is complete, the user has to select the operating mode of the unit: automatic or manual.

When the manual mode is selected, the user gets access to all the functions (Figure 17.) possible with the EVERT ATF Pro:

- detergent dosing,
- rinsing/filtering,
- dynamic oil change,
- adding fluid,

- draining the fluid.


Temperature [°C]:	Old [l]:	New [l]:
18	0,0	0,0
Detergent application	Flushing/ Filtrating	Dynamic exchange
Oil refill	Oil draining	

Figure 17. Menu of procedures available on the EVERT ATF Pro.

If automatic mode is selected, the user enters all the data the machine will ask for: the method of flushing the transmission (with detergent or new fluid), the time of flushing the transmission, the amount of fluid to be dynamically changed. The device then starts to perform the steps automatically one by one.

In automatic mode, the user can perform a rinse with detergent or new fluid. If flushing is carried out with new fluid, the user can drain some of the old fluid and feed in new fluid using the device or manually through the drain plug. If the fluid is drained with the device, there is a risk of airing and seizing the transmission, which is why this method is recommended for advanced users. If you have selected to drain the fluid through the drain plug, the unit will display a message to drain the fluid. Once this has been done and accepted, the unit will proceed to the next steps (adding fluid, flushing and dynamic change).

## 6.8. Detergent application.

This function allows rinse detergents to be introduced into the system via an additional connection at the rear of the unit (Figure 2. Para.12). To introduce detergent, pour the correct amount of detergent into the tank, screw on the cap and plug the tank into the connector on the back of the unit. Then press the "Detergent application" button. This will take you to the next menu (you will hear the sound of the solenoid valve being adjusted). By pressing the "Start" button (Figure 19.), the user can start the unit's pump, which forces the detergent into the system. Keep the "Start" button pressed until the detergent tank is empty. Pressing the "Confirm" button will return you to the previous menu and print out the relevant message.

Due to the extremely low lubricating properties of some rinse detergents, the amount of detergent introduced at one time should be limited to 300 ml, due to the risk of damaging the unit's pump. To introduce more detergent, dilute it with ATF fluid at a ratio of 1:1.

Each time detergent is injected, approx. 300 ml of new fluid must be poured into the additional container, the container must be plugged into the connector at the rear of the unit and the "Detergent application" function must be selected again to inject the fluid. This will allow the entire volume of detergent to be forced into the transmission. Otherwise, some of the injected detergent may remain in the suction lines, solenoid valve and pump. This will reduce the efficiency of the flushing process.

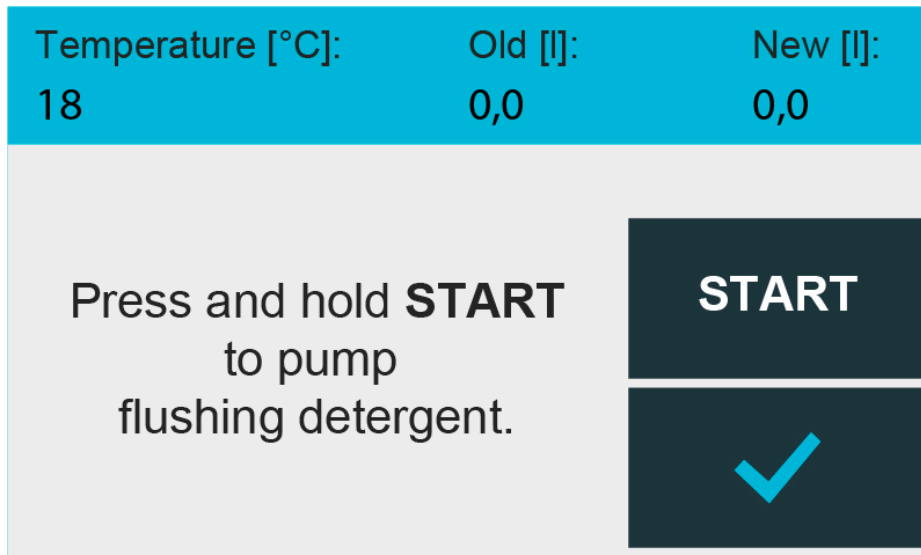


Figure 18. Rinse detergent feed menu screen.

## 6.9. Flushing/Filtering.

When the "Flushing/Filtering" function is selected, the user enters the time for which fluid filtering/flushing of the automatic transmission is to be carried out. Pressing the "Accept" button will take you to the next screen and start the countdown timer (Figure 19.).



Figure 19. Transmission flush function menu screen.

Once the set time has elapsed, the controller will terminate the flushing procedure. The operator must press the "Confirm" button (Figure 20.), which will take the user to the previous menu and print the rinse time information on the receipt. The user can terminate the rinse at any time by pressing the "Accept" button.


Temperature [°C]:	Old [l]:	New [l]:
18	0,0	0,0
<p>Drain old oil from the gear box and change ATF filter.</p>		
Flushed/Filtrated [min]:	3	

Figure 20. Menu for completing the rinsing process.

The flushing time should be selected by a suitably trained operator individually for each car, its technical condition, the type of transmission, the ATF fluid used and depending on the flushing detergent used.

It is recommended to flush the transmission with new ATF fluid. This will gently remove contaminants from the transmission, without the risk of damaging components sensitive to aggressive chemicals. If the transmission is flushed with new ATF fluid, the flushing time must be extended, for which reason the maximum permissible flushing time is 99 minutes. However, it is important to remember to check the condition of the unit, the vehicle being operated and the transmission during flushing. If there are any malfunctions, terminate the process immediately.

When flushing the transmission with chemical detergents, reduce the flushing time to a minimum. The manufacturer of the device is not responsible for any damage to the transmission.

## 6.10. Dynamic exchange.

The unit has built-in scales to measure the amount of new and used ATF fluid. By selecting/entering the appropriate ATF fluid (in the main menu), the unit will convert the weight of the ATF fluid into volume based on the density entered and display it at the top of the screen in litres. This allows the dynamic change process to be conducted automatically by a device that will automatically control the amount of ATF fluid coming out of the transmission and feed exactly the same amount of fresh ATF fluid. The accuracy of the device when conducting a dynamic oil change is up to 150 g of ATF fluid. Ensure that the amount of fluid on the scales and the amount of fluid displayed by the unit are the same.

After pressing the “Dynamic exchange” button, enter the amount of ATF fluid to be used for the dynamic oil change and then click the “Start” button. This will trigger the dynamic oil change process. The display will indicate that the car’s engine needs to be started, the amount of ATF fluid that has been selected for dynamic change and the amount of ATF fluid that has already been poured will be displayed (Figure 21.). The amount of fluid entered for the dynamic oil change should be at least two litres less than the amount of fluid in the tank for the new ATF fluid and must not be more than the currently available space in the old ATF fluid container.

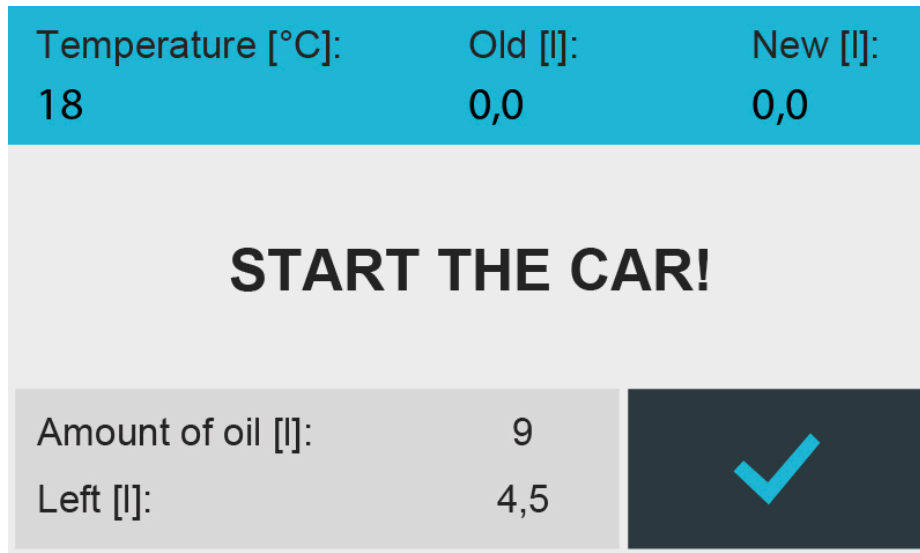


Figure 21. Menu of the dynamic oil change process.

The amount of ATF fluid entered by the operator is the maximum value. If it is reached, the process will end automatically, a corresponding message will be displayed on the unit's display. At any time, you can abort the dynamic exchange process if necessary, by pressing the end of process button (Figure 21.). At the end of the dynamic change process, the amount of ATF fluid poured will be displayed, pressing the process end button again will return to the previous menu and print the amount of ATF fluid poured on the printout.

The design of the unit separates the transmission hydraulic system from the unit's filter system. This ensures that the old fluid from the filter is not re-injected into the transmission after the dynamic oil change is completed. This function allows you to freely use all the available functions of the device.

After the dynamic oil change, the ATF fluid level in the transmission should be checked in accordance with the vehicle manufacturer's procedure.

The amount of ATF fluid entered by the operator to be changed during the dynamic oil change process must be less than the amount in the new ATF fluid container by at least two litres and no more than the currently available space in the old ATF fluid container. If this is not the case, the message "Not enough of the **new** ATF or too much **old** ATF in container." will be displayed (Figure 22.). Regardless of this function, the operator has to check the operating status of the device while running.

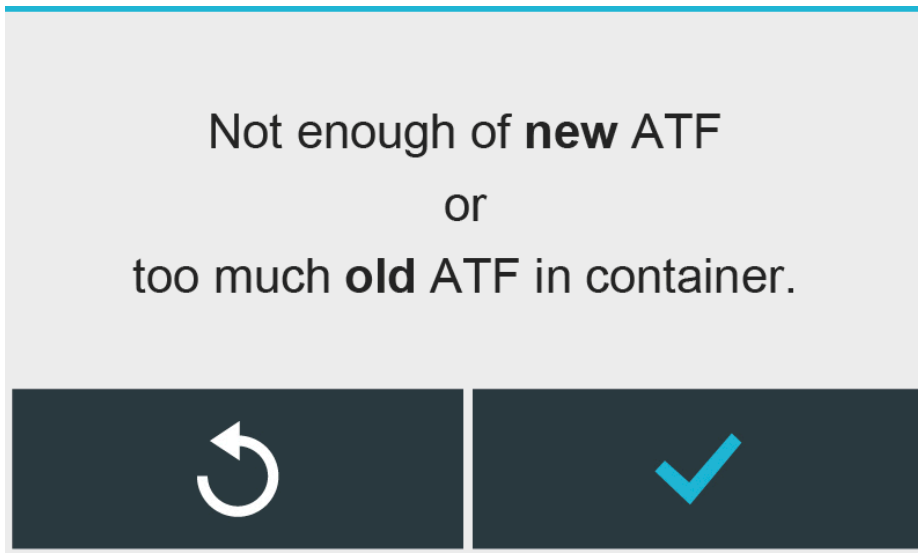


Figure 22. Message warning that the new ATF fluid is too low or that the volume of the old ATF fluid container is too low.

The operator can press the "Back" button to return to the previous menu, to check/refill the amount of new ATF fluid and check the volume of the old ATF fluid container. Pressing the "Accept" button will continue the process, which may result in damage to the transmission. If the "Accept" button is pressed despite a detected problem, this is done at your own risk.

The amount of fluid required to carry out the dynamic oil change process depends on the transmission model and how worn out it is. It should be at least 30% more than the volume of the empty transmission. In order to carry out the dynamic oil change process efficiently and safely, there should be at least two litres more new ATF fluid in the unit than is provided for the dynamic oil change, as some of the fluid will not be sucked out of the fresh ATF fluid container.

## 6.11. Oil refill.

The "Oil refill" function allows ATF fluid to be topped up in the transmission. Pressing and holding the "Start" button (Figure 23.) will start the unit's pump and add ATF fluid to the transmission. Releasing the button will interrupt the fluid refill. The amount of fluid added is shown on the display. Pressing the end of process button will return you to the previous menu and print information about the amount of fluid added on the printout.

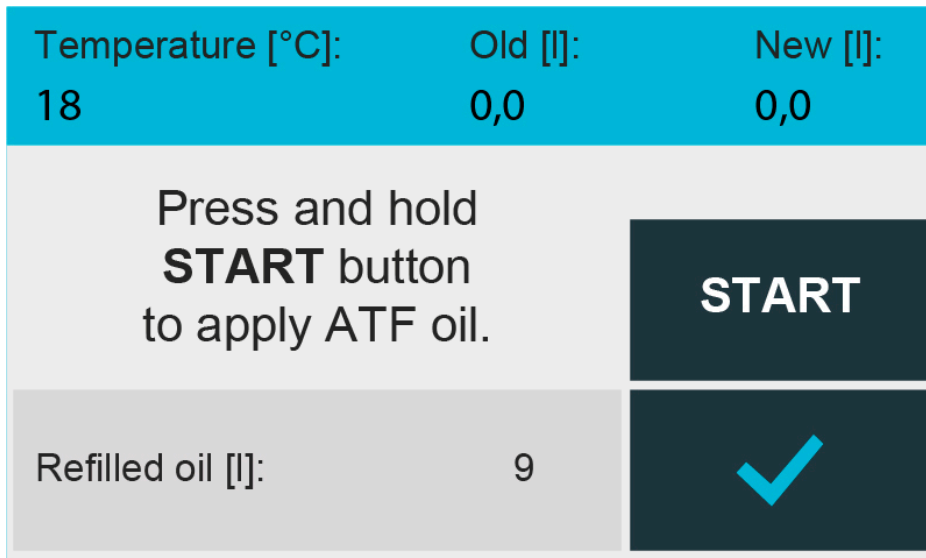


Figure 23. Menu for topping up ATF fluid in the transmission.

## 6.12. Oil draining.

The "Oil draining" function allows some of the ATF fluid to be drained from the transmission. For this function to work, the vehicle's engine must be running, so that the transmission pump will pump ATF fluid into the transmission cooling system and through the unit. Pressing the "Start" button (Figure 24.) will divert the fluid pumped through the transmission to the old ATF fluid tank.

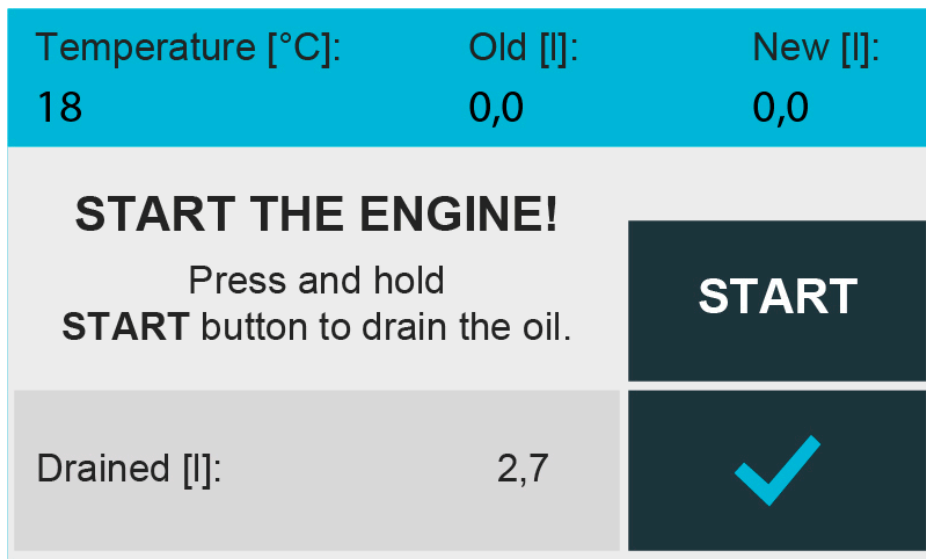


Figure 24. ATF fluid drain menu screen.

It is not recommended to drain the ATF fluid in large quantities (more than one litre), as this can cause the ATF fluid level in the transmission to drop considerably, the automatic transmission fluid pump to become air-locked and, consequently, damaged.

Ensure that the correct amount of fluid is in the automatic transmission before starting the oil drain function. The device will not inform the operator that the pump in the transmission is airing up. If air bubbles appear in the sight glass of the EVERT ATF Pro, immediately switch off the vehicle engine and then follow the vehicle manufacturer's recommendations.

### 6.13. Adjusting the length of the intake line for new ATF fluid.

Before each use of the unit, adjust the length of the new ATF fluid intake line so that, when inserted into the new ATF fluid tank, the suction tip is as low as possible, but not touching the bottom of the container. Failure to do so may result in a distortion in the reading of the amount of new ATF fluid, which will result in malfunctions. If the suction tip is too high, much of the new ATF fluid will not be sucked out of the unit. Adjustment is made by releasing the clamp and extending or retracting the rubber hose.



Figure 25. A clamp used to adjust the length of the suction line.

## 7. Maintenance.



**Maintenance operations must be conducted on a unit that is disconnected from the power supply and the vehicle. The use of personal protective equipment and compliance with current health and safety regulations is recommended.**

To ensure correct and reliable operation of the unit, it is important to observe the following recommendations.

Excessive vibration can shorten the service life of some components, thus invalidating the device's warranty.

Clean the housing of the device using only mild and non-abrasive products such as soaps or surface-active detergents. **DO NOT** use solvents.

The device must not be used as a trolley to transport other equipment.

If it is necessary to transport the unit, remove the fluid from the fresh and used fluid tanks.

Avoid violent shocks.

Periodically check the condition of the connection lines. In the case of worn hoses, replace them with new ones to avoid possible damage.

### 7.1. Oil filter and line maintenance.

Filter changes should not be conducted less frequently than every 5-10 dynamic oil changes. To replace, unscrew the old filter counterclockwise, moisten the gasket of the new filter in ATF fluid and then screw on the new filter by tightening it lightly. Overtightening can make it difficult to unscrew the filter during the next replacement. Overtightening will result in leaks and leakage. If non-dedicated filters are used, make sure they are designed for systems with at least 10 bar pressure, 10-15  $\mu\text{m}$  filtration.

There is no need to flush the device hydraulic lines and filter between services, even if other types of ATF fluid are used.

### 7.2. Changing the paper in the printer.

To replace the paper roll, proceed as follows:

1. Open the printer panel.
2. Place a roll of paper.
3. Pull out part of the paper and close the panel.

The printer is ready.

Use paper designed for thermal printers with a width of 57 mm and a diameter of up to 35 mm.

### 7.3. Venting the hydraulic pump.

After a prolonged period of standstill, air can be trapped in the hydraulic pump. This situation will result in the unit failing to feed fluid. The hydraulic pump should then be vented as follows:

- connect one of the adapters supplied with the unit (any) to the quick couplings of the unit's hydraulic lines so that fluid can flow freely out of the line,
- lift the fluid suction line up to at least nameplate height and turn the suction tip upwards,
- turn the suction tip upside down, lift it up and fill the fluid intake line with ATF fluid, making sure that the fluid intake line is not kinked or bent at any point,
- run the "Oil refill" function for 1-2 seconds, then fill the suction line with fluid again,
- run the "Oil refill" function for approx. 5 seconds,
- place the suction tip in its normal position.

Check the pump for correct venting, repeat the procedure if necessary.

## **7.4. Fuse change.**

If the fuse blows, it can be replaced with a new one of the same rating (30 A). Exceptional care should be taken when replacing the fuse (the unit should be unplugged).

## **7.5. Installation of fluid line hooks.**

The adapter case includes hooks to support the unit's hydraulic and electrical lines. Using the rivets provided, rivet the hooks on the side of the unit. Hook attachment points are located on two sides of the unit.

## **8. Accessories and interchangeable parts.**

Spare parts for the unit are available. If necessary, contact your Inter Cars representative/dealer.

## 9. Warranty.

Device serial no.: \_\_\_\_\_

The manufacturer of the device guarantees that the purchased device is free from physical defects, and at the same time undertakes – in the event of such defects being discovered during the warranty period and within the scope specified in this document – to remove them in a manner dependent on the nature of the defect.

The defect found will be removed at the guarantor's expense within 14 days from the date of delivery of the device to the manufacturer. In exceptional cases where it is necessary to import spare parts, the repair period may be extended.

The device comes with a one-year manufacturer's warranty. Each device is protected by a PIN code. In order for the buyer to start up the device for the first time, it is necessary to enter a PIN code. To obtain a PIN code, contact your Inter Cars representative.

The one-year warranty starts one week after the PIN code is generated.

Defects revealed during the above period will be removed free of charge according to the following rules:

Notification of a device defect under this warranty should be made immediately, not later than within 5 days from the date of detection of the defect.

To make a complaint, contact your Inter Cars representative/dealer.

The condition for the repair of the device under the warranty is the correct notification of the complaint, which should contain the following data and documents/materials:

- data of the person making the complaint,
- the serial number of the device as shown on the name plate,
- a photocopy of the proof of purchase with the date of sale written legibly, confirmed by the stamp and signature of the seller,
- a detailed description of the damage together with a description of the situation in which the damage occurred,
- photos of the display with information about the number of times the device was activated, software version and serial number (each activation of the device will be saved in the memory of the controller. This information can be checked in the machine menu: "settings" and then "machine information", a short video showing the technical condition of the device (the video must be of decent quality, showing the corners of the device, the main panel and the name plate with the serial number).



**After receiving a complaint, the guarantor will inform the buyer about the possible necessity and method of collecting/delivering the device to the manufacturer or service point. If a complaint is justified, the guarantor will provide free transport in the territory of Poland. Outside Poland, the buyer is obliged to deliver and collect the device at his/her own expense.**

**The buyer is obliged to prepare the device for shipment and secure it properly.**

The warranty does not cover, among others, the following:

- » damage resulting from improper use,
- » damage caused by incorrect connection of the device,
- » damage resulting from non-observance of the manual,
- » mechanical, chemical, or thermal damage,
- » scratches, dents,

- » damage to the coating caused by external factors (e.g., chemicals, caustic substances, scratches, etc.),
- » damage caused by external force, e.g., lightning, flooding,
- » repairs and modifications made by companies or persons not authorised by the manufacturer,
- » wear parts, such as bulbs, fuses, filters, rubber cables, shelves, accessories,
- » installation, maintenance, inspection, cleaning, unlocking, removal of contaminants and training,
- » cases in which no defects of the product were found during inspection by the service centre,
- » mechanical damage to the display,
- » mechanical damage to the device's components and equipment,
- » mechanical damage to the adapters,
- » damage to the hydraulic hoses,
- » damage to the power cables,
- » damage caused by improper use of the device,
- » activities provided for in the manual of the device being complained, which the user of the device is obliged to perform on his/her own.

The device is designed to pump ATF fluids. The pumping of other substances (e.g., petroleum, petrol, solvents, water, chemicals) may cause damage to the device (pumps, solenoid valves, hydraulic hoses, engine, controller). Failure to follow the manufacturer's recommendations will void the warranty. Using the pump of the device "dry" (i.e., without fluid or ATF fluid) will void the warranty.

The manufacturer does not take responsibility for the consequences of using the device during service and maintenance operations. The warranty does not cover any damage resulting from improper operation or damage to the device during service and maintenance operations.

The customer is entitled to replace the equipment with new one if, after performing three repairs within the warranty period, there are still defects in the equipment. A repair is understood to mean the performance of specialist activities appropriate for the removal of a defect. The concept of a repair does not include installation, training, maintenance of equipment, correction of mechanical or electrical connections. Replacing the device with a new one does not extend the original warranty period.

The equipment is replaced by an authorised service centre or, if this is not possible, the outlet from which the equipment was purchased. The returned equipment must be complete and without mechanical damage. Failure to meet these conditions may result in the warranty not being accepted.

Note: Damage to or removal of the name plate from the device will void the warranty.

Personal data obtained from the customer in connection with a complaint or service visit will be processed in accordance with European Parliament Regulation (EU) 2016/679 of 27 April 2016. It is forbidden to sell the device to individuals.

The device may only be placed on the professional market, the buyer of the device may only be an entrepreneur. This warranty applies to the territory of Poland.

.....  
I accept the warranty terms and conditions



**EVERT**