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You can read the recommendations in the user guide, the technical guide or the installation guide for NILFISK CONTRACTOR MASTER. You'll find the answers to all your questions on the NILFISK CONTRACTOR MASTER in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual NILFISK CONTRACTOR MASTER**  
**User guide NILFISK CONTRACTOR MASTER**  
**Operating instructions NILFISK CONTRACTOR MASTER**  
**Instructions for use NILFISK CONTRACTOR MASTER**  
**Instruction manual NILFISK CONTRACTOR MASTER**

**CONTRACTOR  
CONTRACTOR MASTER**



**Nilfisk  
ALTO**

*Why Compromise*

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18 1. Water inlet and filter (quick-coupling for supply hose) 2. Pump oil level inspection and fill cup 3. Oil drain plug for pump 4. Sludge container 5. Engine oil dipstick and filler tube 6. Oil drain plug for petrol engine 7. Petrol filling cap 8. Boiler 9.

Fan for boiler 10. High pressure outlet (male quick-coupling) 11. Battery, 12V 12. Container rack for detergents 13. Jerrican for heating oil 14. Fuel filter 15. Frame lift points 16. Thermostat for temperature regulation 17. Thermometer 18. Key for electric start 19.

Fuel cock 20. Choke control 21. Pressure gauge for working pressure 22. Knob for adjustment of water volume 23. Fuse (protection of electronic unit ) rating 1.25AT and RESET button 24. High pressure steam hose 25. Male coupling 26. Quick coupling 27. Valve for pressure regulation 28.

Release trigger 29. Standard double spray lance 30. Low pressure nozzle 31. High pressure nozzle 32. Spray handle 33.

Safety knob for release 34. Drain plug for coil 35. Model tag 36. Suction hose with filter Nilfisk-ALTO environmental policy Nilfisk-ALTO has a strong commitment to and constantly works towards a cleaner and improved world. Nilfisk-ALTO's environmental concern has led to several awards in recognition of our contribution to an improved environment.

We constantly review all aspects of our business from production facilities, to our products and their packaging. Nilfisk-ALTO: Reuses all water which is used in product testing. Ensures every plastic component is recyclable. Produces packaging using wherever possible recyclable cardboard. United Kingdom: Health and safety at Work Act 1974 Guidance Note P.M. 29 It has always been the Nilfisk-ALTO policy to ensure that all Nilfisk-ALTO products are safe and without risk to health or safety when properly used. Nilfisk-ALTO always endeavour to provide customers with every available item of information on the product they are using by the issue of descriptive instruction manuals, literature and brochures which are constantly being updated and reviewed. If you have any doubts or problems please do not hesitate to contact Nilfisk-ALTO Customer Services on 01768 868995 or write to Nilfisk-ALTO Consumer Products, Gilwilly Industrial Estate, Penrith, Cumbria, CA11 9BN. 1 1.

0 Survey of models 1.1 Model tag This petrol driven hot water cleaner has the model designation Contractor/Contractor Master. The model designation appears from the text on the control panel and the model tag. The tag provides the following details: 1. Model designation 2. Nilfisk-ALTO no. 3. Nozzle 4. Heating power 5. Pump pressure 6.

Max. pressure 7. Flow volume 8. Max. temperature 9.

Pump pressure 10. Max. pressure 11. Flow 12. Max.

temperature 13. Power absorption 14. Approval 15. Serial number, week and year EN 1.2 Technical data Model Max pressure, inlet water Pre-priming, max suction height Max temp., inlet water Water temperature, adjustable Heat rating Petrol engine, type Rated output Petrol consumption at max pressure Petrol tank, capacity Fuel consumption at Dt = 50°C Jerrican, capacity Start system Battery Spray lance: Spray angle h.p./l.p Nozzle type Thrust, max V/ah degrees kp/N psi/bar ft/m °F/°C °F/°C Kcal/h/ kW HP/kW USgph/ l/h USg/l USgph/ l/h USg/l Contractor 145/10 16/5 95/35 86-302/30-150 1053/71 Honda GX340LXE 11/8.2 0.

9/3.5 10.6/40 1.5/5.6 5/20 Electric start 12/50 15/65 05 - yellow 4.1/40.2 Contractor Master 145/10 16/5 95/35 86-302/30-150 1053/71 Honda GX390LXE 13/9.6 1/3.7 10.6/40 1.

6/5.9 5/20 Electric start 12/50 15/65 05 - yellow 4.8/47 Sound power level LWA according to ISO 3746: 96.4 dB(A). Sound pressure level LpA measured in accordance with ISO 11202 [DISTANCE 1m] [FULL LOAD]: 110 dB(A).

Data at 12°C inlet water. We reserve the right to make alterations. 2 2.0 Instructions for use Safety precautions and warnings EN Before starting up your high pressure washer for the first time, you must read through the following sections: 2.0 Instructions for use and 3.

0 Operating instructions and follow all instructions to ensure the protection of user, surroundings and machine. Upon the unpacking of your machine please check for any defects. If you find any, we kindly ask you to contact your Nilfisk-ALTO distributor. 2.1 Operation This machine produces a high pressure jet of a high temperature and operation contrary to the instructions can cause severe injury! For your own and the safety of others the following precautions should always be observed: 1. WARNING! Never direct the water jet towards people, pets, electric wiring, or the machine itself. 2. WARNING! Never try to clean clothes or footwear on yourself or other persons. 3. We recommend you to wear goggles during operation.

4. Never work barefoot or wearing sandals. 5. WARNING! Operator and anyone in immediate vicinity of the site of cleaning should take action to protect themselves from being struck by debris dislodged during operation. 6. According to regulations persons under the age of 18 must not operate cleaning machines with a working pressure above 70 bar (applies to this machine). 7. Only let instructed personnel operate the machine. 8. Don't start the machine until the high pressure hose has been correctly mounted.

9. Spray handle and lance are affected by a backward force (thrust) during operation - therefore always hold the spray lance firmly with both hands. 10. At intervals the machine should be stopped and the spray handle secured against inadver tent use by locking the trigger with the locking device. 11.

Only activate the trigger by hand. Never tie it up or fix it in any other way. 12. Avoid damage to the high pressure hose such as running over by a car, squeezing, pulling, knotting/ kinking etc. and keep it away from oil and sharp or hot objects, as such may cause the hose to burst.

13. Never dismount the high pressure hose when the water temperature is above 50°C (risk of scalding) or while the machine is in operation.



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Disconnect the cleaner and the water connection and activate the spray handle before dismantling the high pressure hose. 14. Never use the machine in an environment where there could be a danger of explosion. 15. **WARNING!** High pressure hoses, nozzles, spray handle and connections are important for safety when operating the machine. Only use the high pressure steam hoses (with an imprinted max temperature of 150°C), nozzles and connections prescribed by Nilfisk-ALTO. 16. For safety reasons only use original Nilfisk-ALTO accessories and spare parts.

17. In icy conditions never start the cleaner until machine, hoses and accessories have thawed. Otherwise the machine could be damaged. 18. The cleaner must not be covered during operation. 19. **WARNING!** The flue gases of the motor and the boiler contain poisonous carbon monoxide. Avoid inhalation of exhaust gases. Never run the machine in a closed room. 20.

**WARNING!** Keep children and pets away from the machine during operation. There is a risk of burns. 21. **WARNING!** The muffler gets warm during operation and will remain warm for a while after the motor has been stopped. Be careful not to touch the muffler while warm.

22. **WARNING!** Use of a wrong fuel in the boiler may be hazardous. 23. Be aware that boiler and the Honda engine use different fuels. 3 Safety precautions and warnings **EN DANGER OF EXPLOSION!** Refuel in a well-ventilated area with adequate ventilation and always with the engine stopped.

It is not allowed to smoke when refilling with gasoline. Do not overfill the tank. Make sure that the filler cap is closed securely. Avoid spilling gasoline when refilling. If gasoline nevertheless is spilled, the engine must not be started before the spilled gasoline has been removed. \* If the machine is placed in a trailer, any gasoline spillage must be removed before restarting the machine. \* Never use an open flame near the machine. \* The battery emits explosive gases. Avoid sparks and open flames. Make provision for adequate ventilation during recharge in closed rooms.

**\*\*\*\*\* DANGER OF FIRE** Always place the machine at a distance of at least 1 m from buildings or equipment during operation. Never place inflammable products such as petrol and matches etc. close to the machine during operation. Never place the machine in the immediate vicinity of sources of heat (gas burners, heaters etc.). Always let the engine cool before transporting it or setting it aside to avoid burns and to reduce the risk of fire. 2.2 Safety devices on the machine Circulation valve (safety valve) The pressure side of the high pressure pump is fitted with a circulation valve (safety valve). This valve circulates the water back to the suction side of the pump when the spray handle is closed or if a nozzle is blocked. The circulation valve has been constructed as a safety function ensuring that the pressure will never exceed the working pressure by more than 25 bar.

At this pressure the circulation valve will automatically switch from high pressure to circulation mode. Never let the machine run for more than 5 min. upon release of the spray handle as it may be damaged. The valve has been adjusted and sealed. Max thrust of spray handle and lance - see section "1. Technical data". 6 Operating instructions 3.2 Starting-up procedure 300 50 60 40 30 70 80 90 100 110 120 130 °C 150 140 230 195 160 125 °F TEMP 110 90 70 50 °C 265 130 150 EN Check oil Turn the thermostat to the BLUE field. 16 20 18 19 Turn to position "START". Check that the oil in the oil reservoir (2) is between the MIN and the MAX markings.

Oil type: Nilfisk-ALTO Pump Oil 100. Check the oil level on the Honda engine (5). Oil type: Choose oil type in accordance with the instructions in the Honda manual. Open the petrol cock (pos. 19) by pulling the control knob out. Activate the choke (pos. 20) if necessary by pulling the control knob out. Turn the temperature control (16) to the BLUE field. Make sure that the high pressure hose has been correctly mounted. Start the Honda engine as described in the enclosed operating instructions.

The key for the electric start has the following three positions: 1: "O" off 2: "I" run 3: "Start" - the key will return to position 2 when released Gradually push in the choke control if having been used. 3.3 Operation 33 Always hold the spray lance with both hands! Always lock the spray handle when the cleaner is not in operation. 28 Activate the high pressure washer by releasing the trigger of the spray handle (28). When starting up the machine the pressure may be unsteady because of air in the pump system. After a short time the air will escape from the system and the pressure will become steady. When the engine has been warmed up, check that the max. working pressure does NOT exceed the maximum allowable pump pressure (see section "1.2 Technical data"). This can be taken from the pressure gauge (pos.

21). Do not let the machine run for more than 5 minutes once the spray handle has been released (the pump then circulates the water internally and the machine will overheat unless stopped after 5 minutes). When the cleaner is not in use, secure the spray handle by turning the safety knob (33) into pos. 0. 7 Operating instructions 3.

4 Temperature control 300 50 40 30 60 70 80 90 100 110 120 130 °C 150 140 160 125 °F TEMP 70 50 °C 230 195 110 90 265 130 150 EN 16 17 22 Cold water mode Hot water mode Steam mode 0 - 50°C 50 - 95°C 95 - 150°C Adjust the temperature control (16) to the required temperature. Indicator lamps on the temperature display (17) show the actual temperature of the outlet water. Cold water mode: Upon the starting-up procedure the machine is immediately ready for cleaning with cold water. Hot water mode: Adjust the temperature control (16) to the required temperature, 30-95°C. Steam mode: Screw the valve for regulation of the water volume (22) home (clockwise), and adjust the temperature control (16) to the required temperature, 95-150°C.

Note: The max temperature of 150°C can only be reached with the reduction valve (27) of the spray lance adjusted to high pressure (turn clockwise until stop). **IMPORTANT:** When adjusting to temperatures above 95°C the valve for regulation of the water volume (22) must be screwed completely home (clockwise) upon which the temperature control (16) can be adjusted to the required temperature, 95 - 150°C. 3.5 Spray lance, regulation of pressure and water volume 27 22 Turn pressure reducing valve: Clockwise (B): high pressure Counter clockwise (A): low pressure The spray lance features 2 nozzles; a high pressure nozzle and a low pressure nozzle. High pressure operation The max working pressure of the machine is reached when the pressure reducing valve (7) is completely closed (B) and the valve for regulation of the water volume (22) is quite open (turned in the direction of the arrow). In this position only the high pressure nozzle is used - high pressure mode.



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The water volume is infinitely variable between min and max output. When the spray handle is inactivated, screw the valve for regulation of the water volume (22) home (in the opposite direction of the arrow). This corresponds to a working pressure of 30 bar and a water volume of approximately 8 l/min. If you want to increase the water volume, turn the valve in the direction of the arrow until the required volume has been reached.

1 turn gives an increase of approx. 40 bar pressure. Low pressure operation If a completely reduced pressure is required, open the reduction valve (A) completely. The nozzle pressure will then be approx. 5 bar. In this position both spray lances are used - low pressure mode. 8 Operating instructions 3.6 Stop - dismantling of high pressure hose 300 50 60 40 30 70 80 90 100 110 120 130 °C 150 140 230 195 160 125 °F TEMP 110 90 70 50 °C 265 130 150 EN 16 18 17 Danger of scalding! Never dismantle the high pressure hose when the water temperature is above 50°C. 19 If the machine is set aside immediately after hot water or steam operation, it should be cooled down in "cold water mode" at first until the temperature is below 50°C. Turn the temperature control (16) to the blue field for cold water and activate the spray handle until the temperature (17) is below 50°C.

Then turn off the water supply and stop the Honda engine by turning the start/stop button (18) to position O. Close the petrol cock (pos. 19). (See instructions for the Honda engine). Now the high pressure hose can be dismantled.

3.7 Transport directions 15 15 For lifting by crane, use lifting straps! When lifting the machine by forklift truck, be sure the forks extend completely under the machine to prevent tipping. When lifting by tackle/crane a sling may be wrapped around the upper frame tubes (15) for lifting. Ensure that no persons are under or near the machine when lifting it. Always fasten the machine securely during transport.

9 Operating instructions 3.8 Storage - frost protection EN Frost-free room or anti-freeze! 34 We recommend you to store the machine in a frost-free room between the cleaning tasks. The machine must be emptied of water prior to storing for a longer period. This is done in the following way: 1. Detach water hose. Dismount spray lance and empty it of water. 2. Turn the thermostat to the BLUE field, start the machine, and let it run with activated spray handle until all water has run out. Then empty the coil by unscrewing the drain plug (34). FROST PROTECTION If the store room is not frost-free, the machine should be protected with an antifreeze.

The frost protection is reached by following the two points above, screwing the drain plug in again and then do the following: 1. Place the inlet/suction hose in a bucket containing approx. 8 l anti-freeze. 2. Draw in the anti-freeze by activating the spray handle. Activate the spray handle 2-3 times while placing it above the bucket with anti-freeze so that the anti-freeze can circulate. 3. Remove the inlet hose from the bucket, activate the spray handle and the rest of the anti-freeze is lead back into the bucket. NB! After repeated use the anti-freeze will be diluted with water and thus loose its anti-freeze effect. 10 4.

0 Fields of application and working methods 4.1 Fields of application The most important fields of application for this product are: Transport Building and construction Industry Service EN Cleaning of trucks, buses, cars, engine rooms, etc. @@@@Degreasing and cleaning of machines, workpieces, and vehicles. @@@@Is used for cleaning. @@@@Insert the suction hose of the injector into the foam detergent.

@@@@Apply detergent under low pressure. @@2. Await acting time. @@3. High pressure cleaning.

Clean all surfaces under high pressure. 4. Rinse afterwards, if necessary. To make sure that residual impurities are removed from the surface. In connection with the working process the optimum cleaning will be reached by following these 3 pieces of advice: Advice no. 1 When using a detergent, always apply it on a dry surface. If the surface is rinsed with water at first, it may be difficult for it to absorb the detergent, and the result is a reduced effect of the detergent.

Advice no. 2 When applying a detergent on large vertical surfaces (i.e.

the sides of a truck) work from below and upwards. Thus you will avoid detergent running off the surface through grooves and dark streaks appearing on the surface whilst cleaning. Advice no. 3 During the high pressure cleaning you should work so that the high pressure water does not run over the surface which has not been cleaned yet. This is to ensure that there is sufficient detergent on the surface when the high pressure water hits the surface. For certain cleaning tasks it may be an advantage to apply detergents for high pressure operation - i.e. for the dewaxing of cars. 5.0 Pre-priming The pressure washer is self-priming, and the water can be taken from a tank, a stream or the like.

The suction height depends on the water temperature. Max. suction height of 5 m is reached with cold water up to 12°C. The pump and the inlet hose must be primed with water before starting up. If there is a risk of impurities (such as running sand) in the Intel water, an external filter must be mounted beyond the internal filter.

Please contact your Nilfisk-ALTO distributor for further information. 12 6.0 Functional description 6.1 General description EN The water passes from the quick coupling (a) through a water filter (b) into the high pressure pump (c). The high pressure water leads through the discharge system of the pump where the safety and circulation valve (d) is situated.

Then it passes the first flow switch (e) to the non-return valve with throttle (f), through the second flow switch (g) and enters the boiler (h). Here the water is heated to the required temperature. After the boiler the hot high pressure water passes the temperature sensor (i), through the outlet quick connector (j) to the spray handle (k) and the spray lance (l). The fuel is drawn from the fuel tank (m) through the fuel filter (n) by the fuel pump (o). Now the pump leads fuel through the solenoid valve (p) to the nozzle (q) where it is ignited. The combustion in the boiler is monitored by the flame sensor (w) and is supplied with air from the fan (r) which together with the high pressure pump (c) are driven by the petrol engine (s). 6.2 High pressure pump On the pressure side the high pressure pump features a circulation valve (d). This valve leads the water back to the suction side of the pump when the spray handle is closed or if a nozzle is blocked. The circulation valve also functions as a safety valve and has been adjusted to open approx.

25 bar above the working pressure. The valve has been adjusted and sealed from the factory. This adjustment must NOT be changed! When the machine stops it is automatically devoid of pressure. 6.3 Petrol engine A description of the operation/maintenance instructions for the Honda engine will be found in the Honda manual provided with the machine.



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Please read this before starting up. The throttle limit of the engine has been adjusted by Nilfisk-ALTO so that the max. number of revolutions corresponds to the max. pressure of the pump (see section "1.2 Technical data").

The adjustment is sealed and must NOT be changed. 6.4 Burner system - control system The burner system is surveyed and controlled by an electronic control unit which includes a thermostat, flow switches to control the water flow and a sensor to monitor the flame. The water temperature is controlled by the temperature sensor (i) which regulates the fuel supply for the burner through the solenoid valve (p). As the burner is only allowed to operate when there is a water flow in the system (i).

e. when the spray handle is activated) the machine features two flow controls (e-g) which control the fuel supply through the electronic control unit. When the flow in the system is interrupted, the flow switches are activated and the fuel supply will stop. When the water flow repeats, the flow switches are reactivated and reallocate the fuel supply. Safety circuits in the electronic control unit survey that both flow switches are activated.

Thus the fuel supply is interrupted when only one of the flow switches are activated. When the water flow is repeated the control unit only allows the fuel supply if both flow switches have been activated. The flame sensor is a separate circuit stopping the machine if there is no flame in the burner in hot water or steam mode. It is important for the life of the fuel pump that the machine is not allowed to run in the hot water or cold water mode with empty fuel tank. If the burner stops working unexpectedly, check the fuel level in the tank and refill if necessary. NB! Changes of the electrical coupling of the machine are not allowed. 13 Functional diagram EN a. b. c. d.

e. f. g. h. i. j. k. l. Quick coupling, inlet Water filter High pressure pump Circulation valve Flow switch Non-return valve with throttle Flow switch Coil Temperature sensor Quick coupling, outlet Spray handle Spray lance m. n.

o. p. q. r. s.

t. u. v. w. Fuel tank Fuel filter Fuel pump Solenoid valve Burner system - nozzle Fan Petrol engine Safety valve Pressure gauge Regulation of water volume Flame sensor The following sensors are built into the system: - Flow switches (e-g) Ensure that there is a water flow through the boiler, before it can be ignited.

Allows the solenoid valve (p) to open. - Flame sensor (light sensor) (w) Surveys that there is a combustion in the boiler when fed with fuel, and that the combustion will stop when the fuel supply is cut off. - Temperature sensor (i) Measures the temperature of the high pressure water from the boiler. Dependent on higher or lower temperature the burner will ignite or turn out. 14 7.0 Maintenance 7.1 General EN To ensure that your Nilfisk-ALTO high pressure washer is always in an operational condition it is advisable to have it checked by a Nilfisk-ALTO service technician at regular intervals. However, it applies to the most exposed components that a minimum of maintenance ensures a prolonged and problem-free operation. Therefore it will also be a good idea to make a habit of the following: Before mounting the water hose and the high pressure hose the quick couplings should be cleaned of dust and sand. Before mounting spray lance or any other accessory on the spray handle, the machine should be started and the quick coupling cleaned of dust and sand.

The water filter should be cleaned once a month or more frequently as the occasion requires. We recommend you to store the machine in a frost-free room. If by mistake the machine freezes up, it must not be started. Let machine, hoses and accessories thaw up before starting up. If the room is not frost-free the machine should be protected with an antifreeze. Replace fuel filter (14) once the year or more frequently as the occasion requires. 7.2 Oil Oil change - pump The oil should be changed after each 1000 hours' use. Remove the cover of the oil reservoir (2). Unscrew the drain plug (3).

Allow the oil to run out and clean the drain plug of impurities. Screw in the plug and refill the pump with fresh oil through the oil reservoir. Holds approx. 1 l. From Nilfisk-ALTO the pump is filled with zincless hydraulic oil - Nilfisk-ALTO Pump Oil 100.

When refilling and changing the oil this or an oil with the following specifications should be used: ISO no 100 Viscosity index (VI) min 130 Pour point below -30°C Sludge container The used oil is caught in a sludge container (4). The container should be emptied before it is full; this oil must not be reused in the pump. Oil change - Honda engine Refer to the Honda engine manual for maintenance and oil change requirements. Carry out first oil change after 20 hours' operation and then every 100 hours. Not less than once every six months, however.

PROTECT THE ENVIRONMENT Waste oil and oil sludge must be removed as laid down in the instructions. 7.3 Water filter To avoid debris entering the high pressure pump, a water filter is fitted at the water inlet (1). Dependent on the purity of the water this filter will have to be cleaned once the month or more frequently as the occasion requires. The filter can be removed when the quick coupling has been unscrewed. 7.4 Fuel filter A filter (14) between the fuel tank and the fuel pump prevents impurities from penetrating the fuel pump. The filter unit should be changed dependent on the purity of the fuel. A yearly change of the filter is recommended. 15 2 4 3 34 2.

Cover of oil reservoir 3. Oil drain plug 4. Sludge container 14. Fuel filter 34. Drain plug for coil 16 14 Maintenance 7.5 Descaling of coil EN After a period of operation depending on the hardness of the water scale deposits will begin to accumulate in the heating coil. These deposits will reduce the effect of the water heating system and increase the fuel consumption. The machine should therefore be descaled regularly. If the machine adjusted on max. water volume will not heat cold water (8°C) to 70°C within three minutes, the burner or the coil requires servicing or descaling.

Descaling as follows: 1. Detach high pressure hose. 2. Insert the inlet hose in a container with descaler, Nilfisk-ALTO Stonex and water in the ratio 1:10. 3. Start the machine in cold water mode. 4. Stop the machine when the water escaping the outlet socket has been coloured by the descaler. Warning: The mixture may be caustic! Do not on any occasion empty the container to prevent air getting into the system. 5.

Let the machine rest for 20 minutes. 6. Start the machine and pump the used solution into a container for proper disposal. 7. Immediately attach the water inlet hose to the water supply and turn on the tap. 8. Start the machine and let it run 5 - 10 minutes to have the descaler out of the system. 9. If required, repeat the procedure from item 3 - 8. Note! The descaling should always be carried through in accordance with the instructions on the descaler product.



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7.6 Cleaning of high pressure nozzle A clogging up in the nozzle causes a pump pressure which is too high and cleaning is immediately required. 1. Stop the cleaner and detach the spray lance. 2. Carefully clean the nozzle. IMPORTANT: ONLY use the cleaning tool when the spray lance is detached! 3. Flush the spray lance backwards with water. 4. If the pressure is still too high, repeat items 1 - 3.

17 8.0 Trouble shooting chart EN You have chosen a quality product and therefore deserve the best service. To avoid unnecessary disappointments, you should check the following before contacting the nearest Nilfisk-ALTO service organisation: Fault Machine will not start Cause Insufficient petrol supply Battery run down Pump frozen up A fuse has blown Correction Refill petrol tank Recharge the battery \*) Let the pump thaw Replace fuse or press the RESET button (23) Clean the nozzle (see section 7.6) Completely open the valve for regulation of water volume. Turn in the direction of the arrow.

Replace nozzle. Contact Nilfisk-ALTO servicing department Repeat venting. Check that the dosing valve (22) is completely closed. @NB! Avoid long thin hoses (min 3/4"). See section 5.

0 Pre-priming Clean the filter (see section 7.3). Clean the nozzle (see section 7.6). Check the water connection. Let hoses / spray lance thaw. Refill with fuel. Replace fuel filter. Replace fuel filter (see section 7.4).

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