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You can read the recommendations in the user guide, the technical guide or the installation guide for NILFISK FLOORTEC R 570 B. You'll find the answers to all your questions on the NILFISK FLOORTEC R 570 B in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NILFISK FLOORTEC R 570 B
User guide NILFISK FLOORTEC R 570 B
Operating instructions NILFISK FLOORTEC R 570 B
Instructions for use NILFISK FLOORTEC R 570 B
Instruction manual NILFISK FLOORTEC R 570 B



FLOORTEC R 570 B



DEUTSCH	BETRIEBSANLEITUNG
FRANÇAIS	MANUEL D'UTILISATION
ENGLISH	USER MANUAL
NEDERLANDS	GEBRUIKSAANWIJZING

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Manual abstract:

The User Manual must be kept near the machine, inside an adequate case, away from liquids and other substances that can cause damage to it. The Declaration of Conformity, supplied with the machine, certifies the machine conformity with the law in force. NOTE Two copies of the original Declaration of Conformity are provided together with the machine documentation. The machine model and serial number are marked on the plate (37). The machine model year is written in the EC Declaration of Conformity and it is also indicated by the first two figures of the machine serial number. This information is useful when requiring machine spare parts. Use the following table to write down the machine identification data. Other manuals supplied with the machine: \hat{A} Electronic Battery Charger Manual (if equipped), to be considered an integral part of this Manual \hat{A} Sweeper Spare Parts List Other available manuals: \hat{A} Service Manual (that can be consulted at Nilfisk-Alto Service Centers) All necessary operating, maintenance and repair procedures must be carried out by qualified personnel or by Nilfisk-Alto Service Centers. Only original spare parts and accessories must be used. Contact Nilfisk-Alto for service or to order spare parts and accessories, specifying the machine model and serial number.

Nilfisk-Alto constantly improves its products and reserves the right to make changes and improvements at its discretion without being obliged to apply such benefits to the machines that were sold previously. Any change and/or addition of accessory must be approved and performed by Nilfisk-Alto. This sweeper has been designed and built to clean/sweep smooth and solid floors, and to collect dust and light debris, in civil and industrial environments, under safe operation conditions by a qualified operator. Forward, backward, front, rear, left or right are intended with reference to the operator's position, that is to say on the driver's seat (25). Upon delivery check that the packing and the machine were not damaged during transportation.

In case of visible damages, keep the packing and have it checked by the carrier that delivered it. Call the carrier immediately to fill in a damage claim. Check that the machine is equipped with the following features: \hat{A} Technical documents: \hat{A} The following symbols indicate potentially dangerous situations. Always read this information carefully and take all necessary precautions to safeguard people and property. the operator's cooperation is essential in order to prevent injury.

No accident prevention program is effective without the total cooperation of the person responsible for the machine operation. Most of the accidents that may occur in a factory, while working or moving around, are caused by failure to comply with the simplest rules for exercising prudence. A careful and prudent operator is the best guarantee against accidents and is essential for successful completion of any prevention program. It indicates a dangerous situation with risk of death for the operator. It indicates a potential risk of injury for people or damage to objects. Pay careful attention to the paragraphs marked by this symbol. NOTE It indicates the necessity to refer to the User Manual before performing any procedure. Specific warnings and cautions to inform about potential damages to people and machine are shown below. Turn the ignition key to "0" and disconnect the batteries before performing any maintenance/repair procedure. This machine must be used by properly trained and authorised personnel only.

Children or disabled people cannot use this machine. Keep the battery away from sparks, flames and incandescent material. During the normal operation explosive gases are released. Do not wear jewels when working near electrical components. Do not work under the lifted machine without supporting it with safety stands. When working under the open hood, ensure that it cannot be closed by accident. Do not operate the machine near toxic, dangerous, flammable and/or explosive powders, liquids or vapours. if the machine is equipped with lead (WET) batteries , battery charging produces highly explosive hydrogen gas. Keep the hood open when charging the batteries and perform this procedure in well-ventilated areas and away from naked flames. When lead (WET) batteries are installed, do not tilt the machine for more than 30 \hat{A} from the horizontal plane to prevent the highly corrosive acid from leaking out of the batteries.

Carefully read all the instructions before performing any maintenance/repair procedure. Take all necessary precautions to prevent hair, jewels and loose clothes from being caught by the machine moving parts. Before using the battery charger, ensure that frequency and voltage values, shown on the machine serial number plate, match the electrical mains voltage. Do not pull or carry the machine by the battery charger cable and never use the battery charger cable as a handle. Do not close a door on the battery charger cable, or pull the battery charger cable around sharp edges or corners.

do not run the machine on the battery charger cable. Keep the battery charger cable away from heated surfaces. Do not charge the batteries if the battery charger cable or the plug are damaged. if the battery charger cable is damaged , contact Nilfisk-Alto Service Center. To reduce the risk of fire, electric shock, or injury, do not leave the machine unattended when it is plugged in.

Before performing any maintenance procedure, disconnect the battery charger cable from the electrical mains. Do not leave the machine unattended with the key inserted in the ignition switch and the parking brake disengaged. Do not use the machine on slopes with a gradient exceeding the specifications. do not use the machine in excessively dusty areas. Do not wash the machine with direct or pressurised water jets, or with corrosive substances. Do not use compressed air to clean this type of machine, except for the filters (see the relevant paragraph). While using this machine, take care not to cause damage to other people, and children especially. Do not put any can containing fluids on the machine. The machine storage temperature must be between 0 \hat{A} \hat{C} and +40 \hat{A} \hat{C} . The machine working temperature must be between 0 \hat{A} \hat{C} and +40 \hat{A} \hat{C} .

The humidity must be between 30% and 95%. Always protect the machine against the sun, rain and bad weather, both under operation and inactivity condition. Do not use the machine as a means of transport, or for pushing/towing. Do not allow the brooms to operate while the machine is stationary to avoid damaging the floor. In case of fire, possibly use a powder fire extinguisher, not a water one. Do not bump into shelves or scaffoldings, especially where there is a risk of falling objects. Adjust the operation speed to suit the floor conditions. Do not use the machine on slopes with a gradient exceeding the specifications. This machine cannot be used on roads or public streets.



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Do not tamper with the machine safety guards.

Otherwise, request assistance from the authorised personnel or from an authorised Service Center. If parts must be replaced, require ORIGINAL spare parts from an Authorised Dealer or Retailer. To ensure machine proper and safe operation, the scheduled maintenance shown in the relevant chapter of this Manual must be performed by the authorised personnel or by an authorised Service Center. The machine must be disposed of properly, because of the presence of toxic-harmful materials (batteries, oils, plastics, etc.), which are subject to standards that require disposal in special centres (see the Scrapping chapter).

If the machine is used according to the instructions, the vibrations are not dangerous. The machine vibration level is below 2. Steering wheel Forward/reverse gear pedal Service brake pedal Parking brake lever Press the brake pedal (3), then use the lever (4) to switch from the service brake to the parking brake. Front skirt lifting pedal Can holder Hood Rear driving wheels on fixed axle Front steering wheel Right side broom Left side broom Main broom Left side skirt Right side skirt Front skirt Rear skirt Hopper (empty it when it is full) Hopper fastening hook Hopper handle 20. Left door (to be opened for performing maintenance procedures only) 21.

Flashing light (always on when the ignition key is turned to "I") (optional) 25. Ignition key (when turned to "0" it turns the machine off and disables all functions; when turned to "I" it enables all machine functions; it also turns on the flashing light) 73. discharged battery warning light (red). When it is on, the batteries are discharged. When it is on, the batteries are semi-discharged. When it is on, the batteries are charged. Residual autonomy depends on battery capacity and working conditions. When pressed, it shows in sequence: Å · To deactivate the emergency pushbutton, turn it in the direction shown by the arrow.

@@@ Under normal working conditions, on a level asphalt surface. Performance Maximum forward/reverse speed Maximum reverse speed Gradeability Minimum turning radius Batteries Battery voltage Standard battery Optional battery Battery minimum capacity (with battery charger) Battery maximum capacity Battery case inner size (length x width x height) Battery compartment maximum size (length x width x height) Dust vacuuming and filtering Paper dust filter 5-10 m Main broom compartment vacuum Filter shaker activation BAT BE1 BZ1 C1 C2 CH1 EB1 EB2 ES1 ES2 ES3 ES4 ES5 FA FB FT F1 F2 F3

F4 F5 F6 K1 LD1 L1 M1 M2 M3 M4 M5 M6 M7 P1 R1 R2 SWS SW1 SW2 SW3 SW4 SW5 SW6 SW7 Batteries Flashing light (optional) Reverse gear buzzer/horn Battery connector Battery charger sub-connector Battery charger Hour counter and battery voltage display Drive system electronic board Main broom relay Filter shaker relay Vacuum system relay Manual vacuum system relay (optional) Side broom relay Main broom circuit breaker Side broom circuit breaker Drive system fuse (70 A) Main fuse (key circuit) (15 A) Filter shaker motor fuse (25 A) Manual vacuum system fuse (40 A) (optional) Vacuum system motor fuse (30 A) Horn and pivoting light fuse (10 A) Working light fuse (10 A) (optional) Ignition key Drive system electronic board diagnostic led Working light (optional) Main broom motor Drive system motor Filter shaker motor Right side broom motor Left side broom motor Vacuum system motor Manual vacuum system motor (optional) Horn switch Drive speed potentiometer (pedal) Led resistance Emergency push-button Main broom microswitch Vacuum system/filter shaker switch Manual vacuum system switch (optional) Driver's seat safety microswitch Side broom microswitch Working light switch (optional) Forward/reverse gear switch On some points of the machine there are some adhesive plates indicating: Å DANGER Å WARNING & A brooms (10 and 11) can be lowered and lifted even when the machine is moving.

@@ 10. @@@ lift the side brooms (10 and 11) with the lever (85). @@ lift the main broom (12) with the lever (86). To stop the machine, turn the ignition key (72) to "0". @@ Always reduce the speed before steering. @@@@ cAUTION! @@ 3. @@@@ During this operation the vacuum fan is automatically shut off. @@@@ Turn the ignition key (2) to "0". @@ discharge all the debris into special containers. @@ install the containers with handle (36), if equipped.

@@ The machine is ready to start working again. @@ Turn on the filter shaker with the switch (79). @@@@ Check that the machine storage area is dry and clean. After the first 8 hours perform the following procedures: Å Check the fastening and connecting parts for proper tightening. The lifespan of the machine and its maximum operating safety are ensured by correct and regular maintenance.

the following table provides the scheduled maintenance. The intervals shown may vary according to particular working conditions, which are to be defined by the person in charge of the maintenance. all scheduled or extraordinary maintenance procedures must be performed by qualified personnel, or by an authorised Service Center. This Manual describes only the easiest and most common maintenance procedures. For other maintenance procedures shown in the Scheduled Maintenance Table, refer to the Service Manual that can be consulted at any Service Center.

wARNING! To perform maintenance procedures, the machine must be off and, if necessary, the batteries must be disconnected. Moreover, carefully read all the instructions in the Safety chapter before performing any maintenance procedure. Procedure WET battery fluid level check Side and main broom height check and adjustment Dust filter cleaning and integrity check Skirt height and operation check Filter shaker operation check Main broom driving belt visual inspection Nut and screw tightening check Service and parking brake check and adjustment Steering chain check and cleaning Main broom driving belt replacement Main motor and drive system motor carbon brush check or replacement (*) (*) (*) (1) (*) (*) (*) (*) Upon delivery Every 10 hours Every 50 hours Every 100 hours Every 200 hours Every 400 hours (1) And after the first 8 running-in hours. NOTE Brooms with harder or softer bristles are available. Check the main broom distance from the ground, according to the following procedure: Å · Keep the machine stationary, lower the main broom and turn it on for a few seconds. If the print (A) is not within specifications, adjust the broom height as shown in step 2. engage the parking brake with the pedal (3) and the lever (4). Turn the ignition key (72) to "0". It must be unscrewed to lower the broom. after the adjustment, hold the knob (B) and tighten the knob (A).

Perform step 1 again to check that the main broom is at the correct distance from the ground. When the broom is too worn to be adjusted, replace it as shown in the next paragraph. wARNING! If the main broom print is excessive (larger than 4 cm), the machine regular operation is affected and the moving or electrical parts can overheat, thus reducing machine life.



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Pay careful attention when performing the above-mentioned checks, and always use the machine according to the indicated conditions. NOTE Brooms with harder or softer bristles are available. It is advisable to wear protective gloves when replacing the main broom because there can be sharp debris between the bristles. 1. Drive the machine on a level ground and engage the parking brake with the pedal (3) and the lever (4). 2. Turn the ignition key (72) to "0".

6) is free from dirt or foreign materials (ropes, rags, etc). The new main broom must be installed with the bristles rows (B, Fig. NOTE Brooms with harder or softer bristles are available. Check the side broom distance from the ground, according to the following procedure: Â· Drive the machine on a level ground and lower the side brooms. â· Keep the machine stationary and turn on the side brooms for a few seconds.

â· Lift the side brooms, then move the machine and turn it off. â· Check that the side broom prints are as shown in the figure (A and B, Fig. 7). If the print is not within specifications, adjust the broom height, according to the procedure shown in step 2. engage the parking brake with the pedal (3) and the lever (4). Turn the ignition key (72) to "0". It must be unscrewed to lower the broom. after the adjustment , hold the knob (B) and tighten the knob (A). Perform step 1 again to check the proper adjustment of the side broom height. When the brooms are too worn and can no longer be adjusted, replace them according to the procedure shown in the relevant paragraph. NOTE Brooms with harder or softer bristles are available. It is advisable to use protective gloves when replacing the side brooms because there can be sharp debris between the bristles. Drive the machine on a level ground and engage the parking brake with the pedal (3) and the lever (4). Turn the ignition key (82) to "0". Lay the hand inside the side broom and press the tabs (A, Fig.

9) inwards, then remove the broom (B) by disengaging it from the four pins (C). NOTE Besides the standard paper filter, polyester filters are also available. The following procedure is applicable to each type of filter. Drive the machine on a level ground and engage the parking brake with the pedal (3) and the lever (4). Turn the ignition key (72) to "0". disengage the hook (18) by pulling its lower end. @@In an outdoor area, clean the filter by shaking it on a level and clean surface, tapping the side (A, Fig. 12) opposite to the wire gauze (B). Complete the cleaning procedure by using compressed air (C, Fig. 12) at maximum 6 Bars, blowing only from the side of the wire gauze (B), at a minimum distance of 30 cm.

Moreover, according to the filter type, observe the following cautions: Â· Paper filter (standard): Do not use water or detergents to clean it, otherwise it can be damaged. â· Polyester filter (optional): For a better cleaning, it is allowed to wash the filter with water and non-lathering detergents. This provides better quality cleaning but reduces the life of the filter, which will have to be replaced more frequently. The use of inadequate detergents can damage the filter. 11) of the cover (32) and check it for integrity and efficiency; if necessary replace it.

Turn the ignition key (72) to "0". Unscrew the knobs (23 and 21) and remove both left (20) and right doors (22). 13) larger than 20 mm or cracks (B) larger than 10 mm (for skirt replacement, refer to the Service Manual). Check that distance from the ground of the side skirts (13 and 14) is within 0 Â 3 mm (A, Fig. 14).

If necessary, adjust the skirt height by using the slots on the screws (A, Fig. 13) larger than 20 mm or cracks (B) larger than 10 mm (for skirt replacement, refer to the Service Manual). 18) slightly touches the ground and that it is not detached from the ground (A, Fig. The distance from the ground of the rear skirt (B, Fig. If necessary, adjust the skirt height by using the slots on the screws (C and D, Fig. Press the front skirt lifting pedal (5) and check that the front skirt (A, Fig. 16) turns upward for about 90Â° (as shown in the figure); then release the pedal and check that the skirt does not remain in an intermediate position but returns to its initial position. @@@@Keeping the batteries charged make their life last longer. wARNING! @@Do not smoke while charging the batteries. While charging the batteries always keep the hood open.

wARNING! @@ the battery fluid is corrosive. If it comes in contact with skin or eyes, rinse thoroughly with water and consult a physician. Drive the machine on a level ground and engage the parking brake with the pedal (3) and the lever (4). Turn the ignition key (72) to "0". open the hood (7). (For WET batteries only) check the level of electrolyte inside the batteries. If necessary, top up through the caps (45). leave all the caps (45) open for battery charging. If necessary, clean the upper surface of the batteries. Charge the batteries according to one of the following methods, depending on the presence of the electronic battery charger (47).

After charging, disconnect the battery charger from the electrical mains and from the battery connector (46). (For WET batteries only) check the level of electrolyte inside the batteries; then close all the caps (45). (For WET batteries only) check the level of electrolyte inside the batteries. If necessary, top up through the caps (45). leave all the caps (45) open for battery charging.

When the correct level is reached, clean, if necessary, the upper surface of the batteries. When the green warning light (50) turns on, the batteries are charged. For further information about the battery charger operation (47), see the Battery Charger Manual. Disconnect the battery charger cable (48) from the electrical mains and place it in its housing on the machine. Drive the machine on a level ground and engage the parking brake with the pedal (3) and the lever (4).

Turn the ignition key (72) to "0". Check/replace the relevant fuse among the following (Fig. 19): F1: Main fuse (key circuit) (15 A) F2: Filter shaker motor fuse (25 A) F3: Manual vacuum system fuse (40 A) (optional) F4: Vacuum system motor fuse (30 A) F5: Horn and pivoting light fuse (10 A) F6: Working light fuse (10 A) (optional) Remove the electrical component box cover (55). check/replace the following fuse (Fig. 20): FT: Drive system fuse (70 A) Check for deactivation of one of the following fuses, then reset it after the relevant motor has cooled down: FA: Main broom motor circuit breaker (30 A) (52) FB: Side broom motor circuit breaker (10 A) (53) The machine does not start when turning the ignition key to "I". The machine does not move when pressing the pedal (2). When starting the machine with the ignition key (72), the pedal (2) is pressed, or the operator is not yet on the driver's seat. The machine operates only when stationary, otherwise it turns off and the red warning light (73) flashes.



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Start the machine with the ignition key (72), only after being on the driver's seat and without pressing the pedal (2). Buy batteries with higher capacity (see the Technical Data paragraph).

For further information, refer to the Service Manual, available at any Nilfisk-Alto Service Center. Before scrapping the machine, remove and separate the following materials, which must be disposed of properly according to the Law in force: Â Batteries Â Engine oil Â Polyester dust filter Â Main and side brooms Â Plastic hoses and components Â Electrical and electronic components () (*) Refer to the nearest Nilfisk-Alto Center especially when scrapping electrical and electronic components. .*



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