



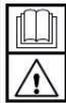
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You can read the recommendations in the user guide, the technical guide or the installation guide for NILFISK BA 611 D. You'll find the answers to all your questions on the NILFISK BA 611 D in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NILFISK BA 611 D
User guide NILFISK BA 611 D
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BA 551/551 D/551 CD
BA 611 D



D BETRIEBSANLEITUNG
F MANUEL D'UTILISATION
GB USER MANUAL
NL GEBRUIKSAANWIJZING



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Manual abstract:

Trois types de têtes sont disponibles : avec une brosse/plateau support disque, avec deux brosses/plateaux support disque et avec deux brosses cylindriques (pour les instructions et les données voir les paragraphes spécifiques). Bouton-poussoir de rotation brosses/plateaux support disque et d'activation système d'aspiration (71) - Il active la rotation des brosses/plateaux support disque et le système d'aspiration. Bouton-poussoir de déclenchement brosses/plateaux support disque (75) - Il permet de déclencher les brosses/plateaux support disque et il est activé seulement lorsque les brosses/plateaux support disque sont arrêtés. Caractéristiques techniques générales BA 611 D BA 551 CD BA 551 D BA 551 (2 (2 brosses (1 brosse/plateau (1 brosse/plateau brosses/plateaux cylindriques, support disque, support disque, support disque, sans système de avec système de avec système de avec système de traction) traction) traction) 1. Caractéristiques techniques avec tête porte-brosses/plateaux support disque BA 611 D BA 551 D BA 551 (2 (1 brosse/plateau (1 brosse/plateau brosses/plateaux support disque, support disque, support disque, sans système de avec système de avec système de traction) traction) traction) 530 mm 760 mm 1. Largeur de nettoyage Largeur embouchure Longueur maximum machine Largeur machine sans embouchure Diamètre brosse Poids sans batteries et avec réservoirs vides Poids maximum avec batteries et réservoir plein Puissance moteur brosse Vitesse de rotation brosses Pression brosses/plateaux support disque avec extra-pression désactivée Pression brosses/plateaux support disque avec extra-pression activée BAT : Batterie 24 V C1 : Connecteur batteries C2 : Connecteur chargeur de batterie CH : Chargeur de batterie (optionnel) CSC : Connecteur secondaire tête porte-brosses cylindriques EB1 : Carte électronique de fonctions EB2 : Carte électronique système de traction ES1 : Télérupteurs moteurs brosses ES2 : Relais système d'aspiration EV1 : Electrovanne détergent (optionnelle) F1 : Fusible tête F2 : Fusible système d'aspiration F3 : Fusible système de traction F4 : Fusible circuits de signaux F5 : Fusible déclenchement brosses/plateaux support disque F6 : Fusible pompes HM : Compteur horaire (optionnel) K1 : Clé de contact M1 : Moteur brosse/plateau support disque M2 : Moteur système d'aspiration M3 : Moteur système de traction M4 : Pompe eau (optionnelle) Pour accrocher les brosses/plateaux support disque, il suffit d'appuyer sur le panneau (83) en exerçant une légère pression qui actionne seulement les moteurs des brosses/plateaux support disque. 9. Pour déposer les brosses/plateaux support disque, il est nécessaire de soulever la tête en appuyant sur la pédale (11), puis appuyer sur le bouton-poussoir (75) (si présent) et attendre jusqu'à ce que la brosse/plateau support disque tombe au sol. The purpose of this Manual is to provide the operator with all necessary information to use the machine properly, in a safe and autonomous way. It contains information about technical data, safety, operation, storage, maintenance, spare parts and disposal.

Before carrying out any procedure on the machine, the operators and qualified technicians must read this Manual carefully. The operators must not carry out procedures reserved for qualified technicians. Nilfisk-Advance will not be answerable for damages coming from the non-observance of this prohibition. 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 EC Declaration of Conformity are provided together with the machine documentation. The machine model and serial number are marked on the plate (34). 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.

Electronic Battery Charger Manual (if equipped), to be considered as integral part of this Manual Moreover, the following Manuals are available: Service Manual (that can be consulted at Nilfisk-Advance Service Centers) Spare Parts List (supplied with the machine) All necessary operating, maintenance and repair procedures must be carried out by qualified personnel or by Nilfisk-Advance Service Centers. Only original spare parts and accessories must be used. Contact Nilfisk-Advance for service or to order spare parts and accessories, specifying the machine model and serial number. Nilfisk-Advance 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 previously sold. Any change and/or addition of accessories must be approved and performed by Nilfisk-Advance. These scrubber-dryers are used to clean (scrubbing and drying) smooth and solid floors, in civil or industrial environment, under safe operation conditions by a qualified operator. The scrubber-dryers cannot be used for fitted carpet and carpet cleaning. Forward, backward, front, rear, left or right are intended with reference to the operator's position, that is to say in driving position with the hands on the handlebar (2). When the machine is delivered, 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: 1. 1 connector for battery charger (for machines without on board battery charger) 3. 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.



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It indicates a potential risk of injury for people or damage to objects. Pay the greatest attention to the paragraphs marked by this symbol. CONSULTATION 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. dANGER! 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 far 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. Do not operate the machine near toxic, dangerous, flammable and/or explosive powders, liquids or vapours. battery charging produces highly explosive hydrogen gas. Keep the tank assembly open during battery charging and perform this procedure in well-ventilated areas and away from naked flames. Before using the battery charger, ensure that frequency and voltage values, indicated 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 machine is not working as it should, has been damaged, left outdoors or dropped into water, return it to the Service Centre. 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 smoke while charging the batteries. Always protect the machine against the sun, rain and bad weather, both under operation and inactivity condition. store the machine indoors. Do not allow to be used as a toy. Close attention is necessary when used near children. Use only as shown in this Manual. Only Nilfisk-Advance recommended accessories must be used.

Take all necessary precautions to prevent hair, jewels and loose clothes from being caught by the machine moving parts. Do not leave the machine unattended without being sure that it cannot move independently. Do not use the machine on slopes with a gradient exceeding the specifications. do not use the machine in particularly dusty areas. While using this machine, take care not to cause damage to people or objects.

Do not bump into shelves or scaffoldings, especially where there is a risk of falling objects. Do not put any can containing fluids on the machine. The machine working temperature must be between 0°C and +40°C. The machine storage temperature must be between 0°C and +40°C. The humidity must be between 30% and 95%.

Do not use the machine as a means of transport. Do not use the machine on slopes with an inclination higher than 2%. Do not allow the brushes to operate while the machine is stationary to avoid damaging the floor. In case of fire, use a powder fire extinguisher, not a water one. Do not tamper with the machine safety guards and follow the ordinary maintenance instructions scrupulously. Do not leave any object penetrate in the openings. Do not use the machine if the openings are clogged. Always keep the openings free from dust, hairs and any other foreign material which could reduce the air flow. do not remove or modify the plates affixed to the machine. If the machine is used according to the instructions, the vibatteries are charged) 93.

*94. Yellow warning light (ON: the battery charger is on and batteries are semi-discharged) Red warning light (ON: the battery charger is on and it is charging the batteries) Control panel (1) - It is the area where machine controls are located, see Control and Switch Description paragraph. Battery charger cable holder (optional) (7) - Use it to roll up the battery charger cable when it is not in use. Water removable filler hose (optional) (9) - For easily filling the tank with water (***) . squeegee lifting/lowering lever (10) - To lift or lower the squeegee. Deck lifting/lowering pedal (11) - It has the following functions: (11a) Pedal position when deck is lifted (11b) Pedal position when deck is lowered (11c) Extra pressure activation (optional) This function is not equipped on BA 551 D and BA 611 D with cylindrical brush deck. battery connector (red) (12) - It connects the batteries to the machine electrical system. It must be connected to the external battery charger, when the machine is not equipped with on-board battery charger. This connector also works as EMERGENCY switch, to stop immediately all functions. Front wheels on fixed axle (14) - They bear the machine weight.*

*Solution/clean water drain and level check hose (***) (17) - It is equipped with level marks to check the solution/water level in the tank. Decks are easy to remove (with tools) and can be replaced with other types of deck. Three types of deck are available: with one brush/pad-holder, with two brushes/pad-holders, with two cylindrical brushes (for instructions, see the relevant paragraphs). Can holder (23) - Compartment to store a can or small objects. Choose the squeegee according to the type of deck (see the relevant paragraph).*

*Machine straight forward movement adjusting handwheel (****) (28) - Turn it clockwise or counter-clockwise for machine straight forward movement.*

*Machine forward speed adjustment handwheel (****) (29) - Turn it clockwise or counter-clockwise to change the machine forward speed. Recovery water tank (open) - By turning the retaining plate (32), it can be removed. It can be opened in one of the following positions: (30a) Opened to be cleaned. (30b)*

Completely opened.

*Tank cover gasket (31) - The gasket must be integral for an efficient vacuuming of the recovery water. Vacuum grid with automatic shut-off float (36) - Keep it clean, to avoid a stuck in the vacuum system. Solution front filler neck (37) - For easily filling the tank with solution. Foam filter (38) - It prevents debris or foreign materials from entering into the tank. Tank safety cable (42) - It keeps the tank opened. vacuum system motor cover (43) - It retains the sound-deadening filter and protects the vacuum system motor. Vacuum system motor sound-deadening filter (44) - It protects the motor from debris and foreign material, and it deadens the vacuum system motor noise. Detergent tank (**) (45) - It contains the detergent that will be mixed with the clean water.*

*Detergent pump (**) (49) - It vacuums the detergent from the tank and supplies it, together with the clean water, to the brushes.*



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water pump (**) (50) - It vacuums the water from the tank and supplies it to the brushes.

Clean water filter (**) (51) - It filters the clean water before supplying it to the pump and brushes. batteries (52) - They supply current for machine operation. The machine can be equipped with lead (WET) or gel (GEL) batteries. Battery caps (53) - WET batteries are equipped with caps for maintenance purposes.

(*) Only for BA 551 D, BA 551 CD, BA 611 D (**) Only for machines equipped with EDS - ECO Dosage Solution (optional) (***) If the machine is equipped with EDS - ECO Dosage Solution [switch (77) (optional) enabled] pour clean water in the tank, otherwise pour solution. When pressed twice, it turns off the brushes/pad-holders. Brush/pad-holder release switch (75) - It releases the brushes/pad-holders, and it can be pressed only when the brushes/pad-holders are off. Detergent flow control switch (**) (77) - It turns the EDS - ECO Dosage Solution on and off and it allows to change the detergent concentration. Ignition key (*) (80) - It turns the control panel on and off. Drive paddle (*) (83) - Push it forward to move the machine forward, push it backwards to move the machine in reverse.

The brushes/pad-holders and the water flow turn on only when the paddle is pushed in either directions. When the paddle is released, the brushes/pad-holders turn off. Forward/reverse gear speed adjuster (*) (84) - It adjusts the machine maximum speed, when the drive paddle is pushed to the end of stroke.

Brush/pad-holder and vacuum system switch warning light (72) - When the warning light turns on, it means that the relevant function is activated. Vacuum system switch warning light (74) - When the warning light turns on, it means that the relevant function is activated.

Brush/pad-holder release switch warning light (76) - When the warning light turns on, it means that the relevant function is activated. Detergent flow control switch warning light (78) - When the warning light turns on, it means that the relevant function is activated. Hour counter (optional) (79) - It shows the machine working hours. Green warning light (81a) - When it is on, the battery are charged (residual autonomy depends on battery capacity and working conditions.) Yellow warning light (81b) - When it is on, the battery are semi-discharged (residual autonomy is 10 minutes approximately.

) Red warning light (81c) - When it is on, the battery are discharged (the autonomy is over, the batteries must be recharged (see the procedure in the relevant paragraph. In addition to the standard components, the machine can be equipped with the following accessories/options, according to the machine specific use: 1. Front and rear wheels of different materials 8. Pocket For further information concerning the optional accessories, contact an authorised Service Centre or Retailer. General technical data BA 551 D BA 551 (1 (1 brush/pad-holder brush/pad-holder , with drive sys, without drive tem) system) BA 551 CD (2 cylindrical brushes, with drive system) BA 611 D (2 brushes/pad-holders, with drive system) Machine height Solution/clean water tank capacity Recovery water tank capacity Front wheel diameter Front wheel specific pressure on the ground Rear wheel diameter Vacuum system motor power Drive system motor power Drive speed (variable) Gradeability Sound pressure level (at the operator's position) Standard batteries Battery compartment size (width x length x height) Vacuum system circuit capacity -- -- Technical data for machines with brush/pad-holder deck BA 611 D BA 551 D BA 551 (2 (1 (1 brush/pad-holder brush/pad-holder brushes/pad-hol , with drive sys- ders, with drive , without drive system) tem) system) 530 mm 760 mm 1,323 mm 541 mm 530 mm 88 kg 236 kg 480 W 153 rpm 20. Cleaning width Squeegee width Machine maximum length Machine width without squeegee Brush diameter Weight without batteries and with empty tanks Maximum weight with batteries and full tanks Brush motor power Brush speed Brush/pad-holder pressure with extra-pressure turned off

Brush/pad-holder pressure with extra-pressure function turned on Technical data for machines with cylindrical brush deck Model Cleaning width Squeegee width Machine maximum length Machine width without squeegee Cylindrical brush size (diameter x length) Weight without batteries and with empty tanks Maximum weight with batteries and full tanks Brush motor power Cylindrical brush speed Cylindrical brush pressure BA 551 CD (2 cylindrical brushes, with drive system) 510 mm 760 mm 1,253 mm 575. BAT: 24 V battery C1: Battery connector C2: Battery charger connector CH: Battery charger (optional) CSC: Cylindrical brush deck secondary connector EB1: Function electronic board EB2: Drive system electronic board ES1: Brush electromagnetic switches ES2: Vacuum system relay EV1: Detergent solenoid valve (optional) F1: Deck fuse F2: Vacuum system fuse F3: Drive system fuse F4: Signal circuit fuse F5: Brush/pad-holder release fuse F6: Pump fuse HM: Hour counter (optional) K1: Ignition key M1: Brush/pad-holder motor M2: Vacuum system motor M3: Drive system motor M4: Water pump (optional) M5: Detergent pump (optional) RV1: Speed potentiometer RV2: Maximum speed potentiometer SW1: Brush/drive system enabling microswitch (*) Only for machine with wheel diameter of 250 mm (**) Only for machines with cylindrical brush deck (***) Only for machines without on-board battery charger Colour codes BK: Black BU: Blue BN: Brown GN: Green GY: Grey OG: Orange PK: Pink RD: Red VT: Violet WH: White On some points of the machine there are some adhesive plates indicating: DANGER WARNING CAUTION CONSULTATION While reading this Manual, the operator must pay particular attention to the symbols shown on the plates. Do not cover these plates for any reason and immediately replace them if they are damaged. The electric components of the machine can be seriously damaged if the batteries are either improperly installed or connected. the batteries must be installed by qualified personnel only.

Set the function electronic board and the battery charger (optional) according to the type of batteries used (WET or GEL). The machine requires two 12 V batteries, connected according to the diagram (58). The machine can be supplied in one of the following modes: a) Batteries (WET or GEL) already installed and ready to be used 1. Check that the batteries are connected to the machine with the connector (12). 2. (Only for BA 551 D, BA 551 CD, BA 611 D): Insert the ignition key (80) and turn it to "I" position. (Only for BA 551): Turn on the machine by pressing the switch (71) and/or (73). If the green warning light (81a) turns on, the batteries are ready to be used. If the yellow or red warning light (81b or 81c) turns on, the batteries must be charged (see the procedure in the Maintenance chapter). Batteries (WET) installed on the machine, but without electrolyte @@Pay attention when using sulphuric acid, as it is corrosive. If it comes in contact with skin or eyes, rinse thoroughly with water and consult a physician.



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Fill up the battery cells with sulphuric acid for batteries (density 1. To avoid damaging the floor, dry with a cloth both acid and water on the top of the batteries after charge. Let the batteries rest and fill in with sulphuric acid in accordance with the instructions shown in the Battery Manual.

@@@If the setting is to be changed, perform the following procedure.

@@@If the setting is to be changed, perform the following procedure. @@ install the window (B) and tighten the screws (A). @@(Only for BA 551 D, BA 551 CD, BA 611 D): Do not press the paddle (83) completely, otherwise the machine will start moving. A slight pressure on the paddle (83) is enough to engage the brushes/pad-holders and to turn on the relevant motors. 9.

To remove the brushes/pad-holders, the deck must be lifted by pressing the pedal (11), then press the switch (75) (if equipped) and wait for the brush/pad-holder to fall on the floor. If the machine is not equipped with the automatic release system (switch 75), manually remove the brush/pad-holder from the hub, by turning it in the opposite direction to the normal rotation direction. Turn the ignition key (80) to "0" position. The cylindrical brushes can be installed on either sides. Install the squeegee (25) and fasten it with the handwheels (26), then connect the vacuum hose (15) to the squeegee. With the handwheel (27), adjust the squeegee so that the rear blade - in all its length - touches the floor and the front blade is slightly detached from the floor. Deck model Deck with one brush (18a), brush diameter: 530 mm Deck with two brushes (18b), brush diameter: 305 mm Deck with two cylindrical brushes (18c), brush length: 485 mm Squeegee model Aluminium (Fig. Solution or washing water tank filling NOTE If the machine is equipped with EDS - ECO Dosage Solution [switch (77) (optional) enabled] pour clean water in the tank, otherwise pour solution. (For machines without EDS - ECO Dosage Solution) Fill the tank (20) with a solution suitable for the work to be carried out. Do not fill the solution tank completely, leave a few centimetres from the edge.

Always follow the dilution instructions on the container label on the chemical product used to create the solution. (For machines with EDS - ECO Dosage Solution) Fill the tank (20) with clean water. Do not fill the clean water tank completely, leave a few centimetres from the edge. @@Fill the tank (45) with a detergent suitable for the work to be carried out (highly concentrated detergent). Do not fill the detergent tank completely, leave a few centimetres from the edge. NOTE If the detergent hose (48) is empty (in case of new system, system emptied for cleaning, etc.), in order to fill the hose quickly, it may be useful to drain the EDS - ECO Dosage Solution once or several times (see the procedure in the Maintenance chapter). Check that the green warning light (81a) turns on (charged batteries). If the yellow or red warning light (81b or 81c) turns on, turn the ignition switch back to "0" position and charge the batteries (see the procedure in the Maintenance chapter). Drive the machine to the working area: By pushing it with the hands on the handlebar (2) (only for BA 551).

By starting it with the hands on the handlebar (2) and pushing the paddle (83) forward to move forward, and backwards to move in reverse (only for BA 551 D, BA 551 CD, BA 611 D). The maximum forward speed can be adjusted with the adjuster (84). Lower the squeegee (25) with the lever (10). Start cleaning, by moving the machine as shown in step 3. If necessary, adjust the maximum speed with the adjuster (84).

Make sure that the machine cannot move independently. If necessary, press the washing water flow control switches (82) as necessary, depending on the type of cleaning to be carried out. To avoid any damage to the floor surface, turn off the brushes/pad-holders when the machine stops in one place, especially when the extra pressure function is on. Detergent flow adjustment (For machines with EDS - ECO Dosage Solution) To check the actual setting of the detergent percentage to be added to the washing water, perform the following procedure: 1. turn off the flow control switch (A , Fig.

4) [the warning light (B) must be off]. 3 seconds after pressing the switch, the indicator (C) turns on, thus indicating the percentage, as shown in the figure. 4) [the warning light (B) must be off]. 4. Press and hold the flow control switch (A) until the warning light (B) flashes. Press it again shortly, to go to the next percentage shown by the indicator (C); repeat the procedure until the desired setting is reached. 6. Wait for the warning light (B) to turn off and for the indicator (C) to show the washing water flow: the new percentage is now set. NOTE Detergent percentage setting is stored into memory, even if the machine is turned off. Working with brush/pad-holder extra pressure function turned on 7.

If the floor proves to be particularly difficult to clean, it is possible to turn on the brush/pad-holder extra pressure function by pressing the pedal (11) to position (11c). cAUTION! When the cylindrical brush deck (18c) is installed, the extra pressure function is not enabled. battery discharge during operation 8. Until the green warning light (81a) stays on, the batteries allow the machine to work normally. When the green warning light (81a) turns off, and the yellow warning light (81b) turns on, it is advisable to charge the batteries, because the residual autonomy will last for a few minutes (depending on battery characteristics and work to be performed). When the red warning light (81c) turns on, the autonomy is over. After a few seconds, the brushes/pad-holders are automatically tuned off, while the vacuum system and (only for BA 551 D, BA 551 CD, BA 611 D) the drive system stay on, to finish drying the floor and drive the machine to the appointed recharging area. cAUTION! Do not use the machine with discharged batteries, to avoid damaging the batteries and reducing the battery life. An automatic float shut-off system (36) turns off the vacuum system when the recovery water tank (21) is full. The vacuum system deactivation is signalled by a sudden increase in the vacuum system motor noise frequency.

cAUTION! If the vacuum system turns off accidentally (for example, when the float is activated because of a sudden machine movement), to resume the operation: turn off the vacuum system by pressing the switch (73), then open the cover (22) and check that the float inside the grid (36) has gone down to the water level. Then close the cover (22) and turn on the vacuum system by pressing the switch (73). When the recovery water tank (21) is full, empty it according to the following procedure. Empty the recovery water tank with the hose (16). After working, rinse the tank with clean water.

Empty the solution tank with the hose (17). After working, rinse the tank with clean water. Empty and wash the debris container (D), and then install it by engaging it on the retainers.



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After working, before leaving the machine: 1. Store the machine in a clean and dry place, with the brushes/pad-holders and the squeegee lifted or removed. If the machine is not going to be used for more than 30 days, proceed as follows: 1. After the first 8 hours, check the machine fastening and connecting parts for proper tightening and check the visible parts for integrity and leakage. 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. **WARNING!** The procedures must be carried out with the machine off and the battery disconnected. Moreover, read carefully the instructions in the Safety chapter before performing any maintenance procedure. All scheduled or extraordinary maintenance procedures must be performed by qualified personnel, or by an authorized 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.

Procedure Battery charging Squeegee cleaning Brush/pad cleaning Tank and vacuum grid with float cleaning, and cover gasket check Squeegee blade check and replacement Solution/clean water filter cleaning Vacuum system motor cleaning WET battery fluid level check Screw and nut tightening check Brush/pad-holder motor carbon brush check or replacement Vacuum system motor carbon brush check or replacement Drive system motor carbon brush check or replacement (only for BA 551 D, BA 611 D) (1) (2) (2) (2) Daily, after machine use Weekly Every six months Yearly And after the first 8 working hours. This maintenance procedure must be performed by an authorized Nilfisk-Advance Service Center. **NOTE** Charge the batteries when the yellow or red warning light (81b or 81c) turns on, or at the end of every working cycle. **CAUTION!** Keeping the batteries charged make their life last longer. **CAUTION!** When the batteries are discharged, charge them as soon as possible, as that condition makes their life shorter. If the machine is not equipped with on-board battery charger, choose an external battery charger suitable for the type of batteries installed. Do not smoke while charging the batteries. Keep the tank assembly open while charging the batteries. **WARNING!** Pay careful attention when charging the batteries as there may be battery fluid leakages. The battery fluid is corrosive.

If it comes in contact with skin or eyes, rinse thoroughly with water and consult a physician. @@For WET batteries only: Check the level of electrolyte inside the batteries (52); if necessary, top up through the caps (53). Then leave all the caps (53) open for battery charging. If necessary, clean the upper surface of the batteries. Charge the batteries according to one of the following procedures, depending on the presence of the battery charger (90).

After charging, disconnect the battery charger from the electrical mains and from the battery connector (12). (For WET batteries only) Check the level of electrolyte inside the batteries and close all the caps (53). Connect the battery charger cable (6) to the electrical mains (the electrical mains voltage and frequency must be compatible with the battery charger values shown on the machine serial number plate (34)). When the battery charger is connected to the electrical mains, all machine functions are automatically cut off. If the red warning light (94) on the battery charger control panel stays on, the battery charger is charging the batteries.

When the green warning light (92) turns on, the battery charging is completed. When the battery charging is completed, disconnect the battery charger cable (6) from the electrical mains and wind it round its housing (7). Grasp the handle (41) and carefully lower the tank (40). **NOTE** For further information about the battery charger (90) operation, see the relevant Manual. Press the switch (73) and read on the hour counter (79) the total number of working hours (scrubbing/drying) performed by the machine. Turn the ignition key (80) to "0" position. **NOTE** The squeegee must be clean and its blades must be in good conditions in order to get a good drying. It is advisable to use protective gloves when cleaning the squeegee because there may be sharp debris. Lower the squeegee (25) with the lever (10). Check the front blade (C) and the rear blade (D) for integrity, cuts and tears; otherwise replace them (see the procedure in the following paragraph).

5 or 6) of the front blade (C) and the edges (F) of the rear blade (D) lay down on the same level, along their length; otherwise adjust their height according to the following procedure: Release the tie rod (G, Fig. 5 or 6), then tighten the wing nuts, or engage the retainers, and then engage the tie rod. 5 or 6) and rear blade (D) for integrity, cuts and tears; if necessary replace them according to the following procedure. Check that the front corner (J) of the rear blade is not worn; otherwise, overturn the blade to replace the worn corner with an integral one. If the other corners are worn too, replace the blade according to the following procedure: Release the tie rod (G), remove the wing nuts (H) or disengage the retainers (M), remove the retaining strip (K), then replace/overturn the rear blade (D). Install the blade in the reverse order of removal. Unscrew the handwheels (I) and remove the retaining strip (L), then replace the front blade (C). It is advisable to wear protective gloves when cleaning the brushes/pads/cylindrical brushes because there can be sharp debris. Clean and wash the brushes/pads with water and detergent. Check that the brush/pads are integral and not excessively worn; otherwise replace them.

Empty and wash the debris container (D), and then install it by engaging it on the retainers. Wash with clean water the cover (A), the tanks (B and C) and the vacuum grid with automatic shut-off float (D). Drain the water from the tanks with the hoses (16 and 17). If necessary, release the retainers (E) and open the grid (D), recover the float (F), clean all the components and then reinstall them. If necessary replace the gasket (G) by removing it from its housing (H).

When assembling the new gasket, install the joint (I) in the rear central area, as shown in the figure. **NOTE** The hole (K), allowing to compensate the air in the cover interspaces, contributes to create vacuum in the tank. 9. Close the cover (A). If necessary, drain the water from the tank in order to make the filter visible.

check that the pre-filter is clean. If necessary clean it with water and compressed air, then install it. The tap (A) is closed when it is on the position (B) and it is open when it is on the position (C). 4. Remove the transparent cover (D), then remove the filter strainer (E).



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Clean and install them on the support (F). NOTE The filter strainer (E) must be correctly positioned on the housing (G) of the support (F). Turn the ignition key (80) to "0" position. 3. @ @9), then, operating on the clean water filter assembly (F) unscrew the transparent cover (B) and remove the filter strainer (C).

Clean and install them on the support (D). NOTE The filter strainer (C) must be correctly positioned on the housing (E) of the support (D). Remove the screws (A) and carefully move aside the panel (B) by disengaging the grommet (K) from its housing on the panel (B). Check/replace the following fuses: (C) Brush deck fuse F1: (40 A) (D) Vacuum system fuse F2: (30 A) (E) Drive system fuse F3: (30 A) (*) (F) Signal circuits fuse F4: (3 A) (G) Brush/pad-holder release fuse F5: (20 A) (*) (H) Pump fuse F6: (3 A) (*) (*) Only for BA 551 D, BA 551 CD, BA 611 D 6. The machine can be equipped with either the brush/pad-holder deck (18a and 18b) or the cylindrical brush deck (18c). @ @ @ @ @ @ @ @ Close the cover (22). When the detergent tank has been drained, the EDS - ECO Dosage Solution must be drained too (see the procedure in the following paragraph). Clean the detergent tank according to the procedure shown in the previous paragraph. Turn on the machine by turning the ignition key (80) to "I" position. Check that the switch warning light (78) turns on.

5. Simultaneously press the switches (77 and 82a), until the switch warning light (78) starts flashing (after about 5 seconds). 6. Release the switches and wait for the warning light (78) to stop flashing and for the vacuum system to turn on. Turn the ignition key (80) to "0" position.

9. Grasp the handle (41) and carefully lift the tank (40), then check that the hose (48) is empty, otherwise perform the steps 3 to 9 again. NOTE The draining cycle lasts about 30 seconds, then the vacuum function automatically turns on, which allows to remove the solution remained. The draining cycle can also be performed with the detergent tank (45) full of water, thus cleaning the system thoroughly. It is advisable to perform the draining cycle when the EDS - ECO Dosage Solution is really dirty/encrusted because the machine has not been used/cleaned for a long time.

The draining cycle can be performed also to quickly fill the detergent suction hose when the tank (45) is full but the system is still empty. If necessary, the draining cycle can be repeatedly performed. Trouble The motors do not work; no warning light turns on. the machine does not move. (Only for BA 551 D, BA 551 CD, BA 611 D) The brushes do not work, the red warning light (81c) is on. The machine has been turned on by using the ignition key (80) and by keeping the paddle (83) pressed. The squeegee (25) is dirty or the squeegee blades are worn or damaged. The tank cover is not correctly closed, or the gasket (31) is damaged, or the compensation hole (53) is clogged. The squeegee has not been balanced with the handwheel (27). Turn the ignition key (80) to "0" position, then try to start the machine without pressing the paddle (83).

Close the cover correctly, or replace the gasket or clean the compensation hole. NOTE If the machine has an optional battery charger installed, the machine cannot operate if the charger is not on board. in case of battery charger malfunction , contact an authorised Service Center. For further information, refer to the Service Manual, available at any Nilfisk-Advance Service Centre. Before scrapping the machine, remove and separate the following materials, which must be disposed of properly according to the Law in force: (*) Batteries Brushes/pads Plastic hoses and components Electrical and electronic components (*) Refer to the nearest Nilfisk-Advance Center especially when scrapping electrical and electronic components. .



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