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You can read the recommendations in the user guide, the technical guide or the installation guide for NILFISK BA 751. You'll find the answers to all your questions on the NILFISK BA 751 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 751
User guide NILFISK BA 751
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BA 651 - BA 751
BA 851 - BA 751 C



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Manual abstract:

Si le sol est particulièrement sale, il est possible de travailler avec l'extra-pression des brosses / plateaux support disque sur le sol, comme suit : 1. 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 performing any procedure on the machine, the operators and qualified technicians must read this Manual carefully. Nilfisk 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 declaration of conformity are provided together with the machine documentation. The machine model and serial number are marked on the plate (34). The machine production year is written in the 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 Service Centers) Spare Parts List (supplied with the machine) All necessary operating, maintenance and repair procedures must be performed by qualified personnel or by Nilfisk Service Centers. Only original spare parts and accessories must be used. Contact Nilfisk for service or to order spare parts and accessories, specifying the machine model and serial number.

Nilfisk 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 accessory must be approved and performed by Nilfisk. 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).

Upon delivery carefully check that the machine and its packing have not been 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. It indicates a potential risk of injury for people or damage to objects. Pay careful 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. This machine must be used by properly trained operators 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. Do not operate the machine near toxic, dangerous, flammable and/or explosive powders, liquids or vapours: This machine is not suitable for collecting dangerous powders. 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.

Carefully read all the instructions before performing any maintenance/repair procedure. 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. If the machine is not working as it should, has been damaged, left outdoors or dropped into water, return it to the 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 smoke while charging the batteries. To avoid any unauthorised use of the machine, remove the ignition key (if equipped). Do not leave the machine unattended without being sure that it cannot move independently. Always protect the machine against the sun, rain and bad weather, both under operation and inactivity condition. Store the machine indoors, in a dry place: This machine must be used in dry conditions, it must not be used or kept outdoors in wet conditions. Before using the machine, close all doors and/or covers. Do not allow to be used as a toy. Close attention is necessary when used near children.

Use only as shown in this Manual. use only Nilfisk's recommended accessories. Take all necessary precautions to prevent hair, jewels and loose clothes from being caught by the machine moving parts. 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 lean liquid containers on the machine, use the relevant can holder. The machine working temperature must be between 0°C and +40°C.



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The machine storage temperature must be between 0°C and +40°C.

The humidity must be between 30% and 95%. When using floor cleaning detergents, follow the instructions on the labels of the detergent bottles. To handle floor cleaning detergents, wear suitable gloves and protections. Do not use the machine as a means of transport. 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 al (2 brushes/padholders) BA 751 (2 brushes/padholders) 1,072 mm 85 litres 85 litres 0,25% ÷ Technical data for machines with brush/pad-holder deck Model Cleaning width Brush diameter Deck right/left offset Brush distance from the floor (when lifted) Squeegee width Machine maximum length Machine width without squeegee Weight without batteries and with empty tanks Maximum weight with batteries (maximum capacity) and full tanks Brush motor power Brush speed Brush/pad-holder pressure with extra-pressure function turned off Brush/pad-holder pressure with extra-pressure function turned on 30. Model Cleaning width Cylindrical brush size (diameter x length) Deck right/left offset Cylindrical brush deck distance from the floor (when lifted) Squeegee width Machine maximum length Machine width without squeegee Weight without batteries and with empty tanks Maximum weight with batteries (maximum capacity) and full tanks Brush motor power Cylindrical brush speed Cylindrical brush pressure 1,2 M2 M3 M4 24 V batteries Battery connector Battery charger main connector Battery charger sub-connector Deck connector Battery charger (optional) Cylindrical brush deck secondary connector Function electronic board Drive system electronic board Brush motor electromagnetic switches Vacuum system relay Solenoid valve Deck fuse Vacuum system fuse Drive system fuse Signal circuit fuse Brush/pad-holder release fuse Pump fuse Actuator fuse Hour counter (optional) Ignition key Brush/pad-holder motors Vacuum system motor Drive system motor Water pump (optional) M5 M6 m0 m1 m2 RV1 RV2 SW1 Detergent pump (optional) Actuator motor Actuator position 0 microswitch Actuator position 1 microswitch Actuator position 2 microswitch Speed potentiometer Maximum speed potentiometer Brush/drive system enabling microswitch (*) Only for machines with cylindrical brush deck (**) Only for machines without on-board battery charger 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 damaged.

The electric components of the machine can be seriously damaged if the batteries are either improperly installed or connected. The machine can be equipped with: one 24 V battery two 12 V batteries four 6 V batteries connected according to the diagram shown in Fig. 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. Insert the ignition key (80) and turn it to "I". 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 Maintenance chapter). b) Batteries (WET) installed on the machine, but without electrolyte 1. @@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. 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 charging. 6. Let the batteries rest and fill in with sulphuric acid in accordance with the instructions shown in the Battery Manual. @@Set the electronic board of the machine according to the type of batteries installed (WET or GEL) as shown below: 4. Turn the ignition key (80) to "I" and, in the very first seconds of machine operation, detect the current setting by counting the number of flashes of the warning lights (81a), (81b), (81c), as shown in the following table: SETTING 1 2 3 4 5 6 INDICATION 4 flashes of the red warning light (81c) 4 flashes of the green warning light (81a) 4 flashes of the yellow warning light (81b) 2 flashes of the red warning light (81c) 2 flashes of the green warning light (81a) 2 flashes of the yellow warning light (81b) BATTERY TYPE WET GEL-AGM GEL EXIDE® type WET GEL-AGM GEL EXIDE® type REDUCED (see note) STANDARD CHARGING CURRENT If the setting is to be changed, perform the following procedure. Turn off the machine by turning the ignition key (80) to "0". Press and hold the switches (71) and (73) at the same time, then turn the ignition key (80) to "I". Release the switches (71) and (73) at least 8 seconds after starting the machine.

Within 3 seconds, shortly press the switch (73) to go to the next setting (1 to 6 in cyclic sequence). NOTE When performing steps 8 and 9, the settings shown in the table are shown also on the flow indicator (82c) (1st LED on the left ON = setting 1, 2nd LED on the left ON = setting 2, etc.) NOTE When using batteries with a capacity lower than 160Ah@5h (in case of doubt, refer to the battery documents), to avoid battery overheating during charging procedure, use the REDUCED charging current with setting 4, 5 or 6 shown in the table, according to the type of batteries installed. When the machine is to be started by turning the ignition key (80) to "I", make sure that, between the deck (18 or 19) and the above tank assembly, there is no foreign material which may prevent the deck from lifting. This procedure must be performed because if the machine has been turned off without lifting the deck, the deck would lift automatically at next machine start-up.

wARNING! Before turning on the deck lifting/lowering switch (71), always check that, between the deck (18 or 19) and the above tank assembly, there is no foreign material which may prevent the deck from lifting. The machine can be equipped with either the brush/pad-holder deck (18) or the cylindrical brush deck (19). for deck installation/removal see the procedure in Maintenance chapter. NOTE When the deck is installed/removed, it may be necessary to change the squeegee too, because they must have the same width. According to the kind of cleaning to be performed, the machine can be equipped either with brushes (A, Fig.

2) or pad-holders (B) with pads (C) together with the appropriate deck. Insert the ignition key (80) and turn it to "I". Turn the speed adjuster (84) to idle by turning it counter-clockwise.



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If necessary, repeat the procedure until the brushes/pad-holders are engaged. **wARNING!** Turn the speed adjuster (84) counter-clockwise to run the machine at idle speed. Do not press the paddle (83) completely, otherwise the machine will start moving. A slight pressure on the paddle is enough to engage the brush/pad-holder and to turn on the relevant motor. (*) To remove the brushes/pad-holders, the deck must be lifted by pressing the switch (71), then press the switch (75) and wait for the brush/pad-holder to fall on the floor. Turn the ignition key (80) to "0". Turn the ignition key (80) to "I".

lift the cylindrical brush deck by pressing the switch (71). Turn the ignition key (80) to "0". 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. @@@@ use the removable hose (17) as reference. @@@@ Insert the ignition key (80) and turn it to "I". @@@@ 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. start the machine as shown in the previous paragraph. @@@@ **cAUTION!** @@@@ press and turn off the detergent switch (A, Fig. 4) [the warning light (B) must be off]. @@4 [the warning light (B) must be off].

4. @@ 5. @@ 6. Wait for the warning light (B) to turn off and for the indicator (C) to show the washing water flow: the new percentage value 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 (only for BA 651 - BA 751 - BA 851) If the floor proves to be particularly difficult to clean, it is possible to turn on the brush/pad-holder extra pressure function, according to the following procedure: 1. The extra pressure function activation is shown by the warning light (72) which turns from green to red. To return to normal pressure, press and hold the switch (71) for more than 1 second. To lift the brush/pad-holder deck without returning to the normal pressure, press the switch (71) and release it immediately. **cAUTION!** In case of brush/pad-holder motor overload, due to foreign bodies which prevent them from turning, or to excessively aggressive floors/brushes, the safety system stops the brushes/pad-holders after about one minute of continuous overload. The overload is shown by the three warning lights (81a, 81b, 81c) flashing simultaneously. If the overload takes place when the extra pressure function is on, the system automatically reduces the pressure on the brushes/pad-holders, thus turning the extra pressure function off. if the overload persists, the brushes/pad-holders stop. To start scrubbing again after a brush/pad-holder stop due to overload, stop the machine by turning the ignition key (80) to "0". Turn on the machine by turning the ignition key (80) to "I".

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 automatically stop; only vacuum and drive systems still operate, just to dry the wet floor and move the machine to the appointed charging 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 tank (21) is full. The vacuum system deactivation is signalled by a sudden increase in the vacuum system motor noise frequency, and the floor is not dried. **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 tank (21) is full, empty it according to the following procedure.

Turn off the machine by turning the ignition key (80) to "0". Empty the recovery tank with the hose (16). Then, rinse the tank with clean water. perform steps 1 to 4. Empty the solution tank with the hose (17).

Then, rinse the tank with clean water. Turn the ignition key (80) to "I". lower the cylindrical brush deck by pressing the switch (71). Turn off the machine by turning the ignition key (80) to "0". Empty and wash the debris container (D), and then install it by engaging it on the fasteners.

After working, before leaving the machine: 1. Empty the tanks (20 and 21) according to the procedure shown in the relevant paragraphs. 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 performed 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 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. Procedure Battery charging Squeegee cleaning Brush/pad cleaning Recovery tank and debris tray cleaning, and cover gasket check EDSTM - ECO Dosage Solution draining and cleaning (optional) Squeegee blade check and replacement Solution filter cleaning Vacuum system motor filter cleaning Battery (WET) fluid level check Screw and nut tightening check Check and adjustment of driving belts between motors and cylindrical brushes (BA 751 C) 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 (1) (2) (2) (2) (2) Daily, after using the machine Weekly Every six months Yearly (1) And after the first 8 working hours.



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Turn the ignition key (80) to "I". 2. 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". NOTE Charge the batteries when the yellow or red warning light (81b or 81c) turns on, or at the end of every working cycle. Keeping the batteries charged make their life last longer.

When the batteries are discharged, charge them as soon as possible, as that condition makes their life shorter. Do not smoke while charging the batteries. While charging the battery, always keep the tank assembly open. **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. @@ drive the machine to the appointed recharging area. Turn the ignition key (80) to "0". Check the level of electrolyte inside the batteries (52); if necessary, top up through the caps (53). 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. The red warning light (81c) is on when the battery charger is charging the batteries. 15. When the green warning light (81a) turns on, the battery charging is completed. 16. When the battery charging is completed, disconnect the battery charger cable (6) from the electrical mains and wind it round its housing (7).

NOTE For further information about the operation of the battery charger (5), see the relevant Manual. 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 wear protective gloves when cleaning the squeegee because there may be sharp debris. Turn the ignition key (80) to "0". Lower the squeegee (25) with the lever (10). Wash and clean the squeegee (Fig. Check the front blade (C) and the rear blade (D) for integrity, cuts and tears; if necessary replace them (see the procedure in the following paragraph). Check that the edges (E) 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: · Loosen the handwheels (I) and adjust the front blade (C); then tighten the handwheels. Check the front blade (C) and rear blade (D) for integrity, cuts and tears; if necessary replace them as shown below. Check the front corner (J) of the rear blade for wear; if necessary, 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: · 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 because there may be sharp debris. Clean and wash the brushes/pads with water and detergent. Empty and wash the debris container (D), and then install it by engaging it on the fasteners. drive the machine to the appointed disposal area.

Turn the ignition key (80) to "0". Drain the water from the tanks with the hoses (16 and 17). Wash with clean water the cover (A), the tanks (B and C) and the vacuum grid with automatic shut-off float (D). If necessary, release the fasteners (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. check that the seating surface (J) of the gasket (G) is integral and adequate for the gasket itself. NOTE The hole (K), allowing to compensate the air in the cover air gap, contributes to create vacuum in the tank. 9. Close the cover (A). The machine can be equipped with either the brush/pad-holder deck (18) or the cylindrical brush deck (19). NOTE When the deck is installed/removed, it may be necessary to change the squeegee too, because they must have the same width. Turn the ignition key (80) to "I". Turn the ignition key (80) to "0". @@Close the cover (22).

8. Grasp the handle (41) and carefully lift the tank (40) to reach the deck electrical connection. When the cylindrical brush deck (19) is installed, the white connector (D) must be connected. When the brush/pad-holder deck (18) is installed, fasten the lever with the pin (B). Turn the ignition key (80) to "0". @@If necessary clean it with water and compressed air, then install it. Turn the ignition key (80) to "0". close the solution tap (A , Fig. 8) under the machine, behind the left rear wheel. @@@@Clean and install them on the support (G).

@@@@@Close the cover (22). After draining the detergent tank, drain the EDSTM - ECO Dosage Solution too by running the system with clean water only (see the procedure in the next 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". Check that the switch warning light (78) turns on.

5. Press the switches (77) and (82a) at the same time, 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".

9. Grasp the handle (41) and carefully lift the tank (40), then check that the hose (48) is empty, otherwise perform 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 detergent 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 EDSTM - 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 supply hose when the tank (45) is full but the system is still empty. If necessary, the draining cycle can be repeatedly performed. 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: (A): Brush deck fuse F1: (50 A) (B): Vacuum system fuse F2: (30 A) (C): Drive system fuse F3: (60 A) (D): Signal circuits fuse F4: (3 A) (E): Brush/pad-holder release fuse F5: (20 A) (F): Pump fuse F6: (3 A) (G): Actuator fuse F7: (10 A) Perform steps 1 to 4 in the reverse order.



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Trouble The motors do not work; no warning light turns on.

the machine does not move. The brushes do not work, the red warning light is on. The machine has been turned on by using the ignition key (80) and by keeping the paddle (83) pressed. The squeegee is dirty, or the squeegee blades are worn or damaged. The tank cover is not properly closed, or the gasket is damaged. The squeegee is not balanced with the handwheel. Turn the ignition key (80) to "0", then try to start the machine without pressing the paddle (83). charge the batteries. Use less aggressive brushes and/or avoid working with extra pressure turned on. Close the cover properly or replace the gasket.

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 Service Center. 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 Center especially when scrapping electrical and electronic components. .*



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