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You can read the recommendations in the user guide, the technical guide or the installation guide for NILFISK SCRUBTEC 866. You'll find the answers to all your questions on the NILFISK SCRUBTEC 866 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual NILFISK SCRUBTEC 866**  
**User guide NILFISK SCRUBTEC 866**  
**Operating instructions NILFISK SCRUBTEC 866**  
**Instructions for use NILFISK SCRUBTEC 866**  
**Instruction manual NILFISK SCRUBTEC 866**

**SCRUBTEC BOOST 8**  
**SCRUBTEC 866**  
**SCRUBTEC 871**  
**SCRUBTEC 871C**  
**SCRUBTEC 886**



**Nilfisk**  
**ALTO**  
Why Compromise

**Operator's Manual  
and Parts List**

Models: 05370F, 05370G, 05390F,  
05400F, 05400G, 05410F, 05420F,  
56380673

**EN** English (2-27)    **READ THIS MANUAL**  
Parts List (29-64)

Form No. 71492A 10/08, Rev. 9/10



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**Manual abstract:**

@@@@@If operator(s) cannot read this manual, have it explained fully before attempting to operate this machine. All directions given in this book are as seen from the operator's position at the rear of the machine. Table of Contents Table of Contents Operator Safety Instructions .....

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*.3 Introduction ....*

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*.....4 Machine Specifications .....*

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*6 Symbols Used On SCRUBTEC .....*

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.....10 How To Operate The Machine ...

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*.21 How To Correct Problems In The Machine ....*

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*....62-63 Connection Diagram .*

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*64 Accessories .....*

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used on your machine. Always use Nilfisk ALTO parts for replacement. WARNING: WARNING: WARNING: WARNING: CAUTION: CAUTION: Introduction : Scrubtec 866, 871, 886, BOOST 8 and 871C automatic scrubbers are efficient and superior floor cleaning machines. The Scrubtec 886 uses two brushes or pads to scrub a path 86 cm wide.

The Scrubtec 871 uses two brushes or pads to scrub a path 71 cm wide. The Scrubtec 866 uses two brushes or pads to scrub a path 66 cm wide. The Scrubtec BOOST 8 uses one pad or brush to scrub a path 71 cm wide.



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*The Scrubtec 8d 871C FORM NO. 71492A - 5 - ENGLISH EN PROCEDURES FOR TRANSPORTING How To Put The Machine In A Van Or Truck*  
**WARNING:** The machine is heavy. Make sure you use two able persons to assist the machine in climbing the ramp. 1. Make sure the loading ramp is at least eight (8) feet long, and strong enough to support the machine. 2. Make sure the ramp is clean and dry.

3. Put the ramp in position. 4. Remove squeegee assembly. 5. Remove brush housing, pad drivers or brushes if transporting disc machine. 6. Turn key switch "ON". 7. Align the machine on a level surface, ten (10) feet in front of the ramp.

8. Put the traverse speed switch in the "HI" position. 9. Press one or both forward switches. 10. Push the machine to the top of the ramp. 11. Turn the key switch "OFF". 12. Fasten the machine to the vehicle.

*How To Remove The Machine From A Van Or Truck* 1. 2. 3. 4. 5. Make sure there are no obstructions in the area. Make sure the unloading ramp is at least eight (8) feet long and strong enough to support the machine. Make sure the ramp is clean and dry. Put the ramp in position. Unfasten the machine.

**WARNING:** 6. 7. 8. 9. The machine is heavy.

Make sure you use two able persons to assist in moving the machine down the ramp. Turn the key switch "ON". Carefully and slowly, drive the machine to the top of the ramp by pressing and holding either of the forward switches and the reverse switch. Put the traverse speed switch in the mid range speed setting. As the machine begins to travel down the ramp, maintain a slow downward speed by pressing either of the forward switches.

Replace squeegee assembly and other removed components, after the machine is unloaded and ready to use. -6- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH SYMBOLS USED ON SCRUBTEC EN Hazard Alert Symbol On/Off Key Switch

**WARNING!** Carefully read all instructions before performing any procedure. Traverse Speed Control **WARNING!** Do not use the machine on slopes exceeding the specifications. "One Touch" Control **WARNING!** Do not wash the machine with direct or pressurized water jets. Additional Brush Pressure (Not Available on Cylindrical) Charge/Battery Meter Vacuum On/Off Chemical Mixing Control (Optional) Solution Control Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 7 - ENGLISH EN MACHINE CONTROL PANEL Key Switch (See Figure 1, Item "A") The key switch turns "ON" the power to the control panel. "O" is "OFF" and "I" is "ON". Traverse Speed Switch (See Figure #1, Item "B") The speed control varies from low to high speed. To increase the speed, turn the knob to the right.

To decrease the speed, turn the knob to the left. One Touch Control Button (See Figure 1, Item "C") The one touch control button raises and lowers the brush head assembly, starts and stops the vacuum motor automatically. Press the one touch control button once and the brush head assembly lowers to the floor and the vacuum motor turns "ON" (brush head and vacuum LEDs illuminate green). The brush motors start when the brushes are down and the forward palm button is depressed. Press the one touch control button again and the brush head assembly raises, the vacuum motor will remain on for 10 seconds and then shut "OFF". Increase Brush Pressure Button (See Figure 1, Item D) This button is used to increase the brush pressure. Increased brush pressure may be required when stripping or cleaning heavily soiled floors. To increase brush pressure, first lower the brushes by pressing the one touch control button (Item "C"). This will lower the brushes to the normal scrub position. To increase brush pressure, press the button (Item "D").

The LED above the button will illuminate yellow. Press the button (Item "D") again and the brushes will return to normal scrub (yellow LED will turn "OFF"). **NOTE:** Increase brush pressure is not available on cylindrical machine. Vacuum Motor Button (See Figure 1, Item "E") The vacuum motor button turns the vacuum motor "ON" or "OFF", regardless of brush head assembly position. The green LED will illuminate when the vacuum motor is "ON".

Solution Control Buttons (See Figure 1, Item "F & G") The solution control buttons regulate the flow of cleaning solution to the floor. The normal scrub solution setting is indicated by two green bars on the meter. On cylindrical machines, with most floor conditions, the solution setting should be set one step higher. To increase the flow, press the solution flow button "G" (+) until the desired flow is reached. To decrease the flow, press the solution flow button "F" (-) until the desired flow is reached.

To shut off the solution, press the solution flow button "F" (-) until no indicators are visible on the display. **NOTE:** No solution will flow when the machine does not traverse. Forward Palm Buttons (See Figure 1, Item "H") The forward palm buttons turn the traverse motor "ON" and if the brush motors are in the down position, it also activates the brush motors and solution control module. Either the right or the left palm button can be used. Reverse Push Button (See Figure 1, Item "I") The reverse push button, when used in conjunction with one of the forward palm buttons, causes the machine to reverse direction. The reverse speed is 67% of the forward speed. Charge / Battery Meter (See Figure 1, Item "J") The charge / battery meter indicates the battery is being charged when the charger is plugged into an AC outlet. It also indicates the amount of charge that is left in the batteries while the machine is in use. When the charge gets too low the brush/pad motors will shut off. Circuit Breakers (See Figure 1, Item "K & L") The circuit breakers for the brush motors are located on the control panel.

If a circuit breaker trips, determine which motor is not operating and turn the key switch "OFF". Wait five minutes and push the reset button back in. Turn the key switch "ON", and try again. An authorized service person should be contacted if the breaker trips again. Hour Meter (Optional) (See Figure 1, Item "M")

The hour meter indicates the number of hours the machine has operated. It runs only when the machine is moving forward or reverse. Chemical Mixing Control (Optional) (See Figure 1, Item "N") The chemical mixing control regulates the amount of concentration of cleaning chemical mixed with the clear water from the solution tank. Turning the chemical mixing knob clockwise increases the concentration of chemical. -8- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH MACHINE CONTROL PANEL EN M I D E H C J F K G N B A H L  
Figure 1 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO.



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71492A - 9 - ENGLISH EN MACHINE CONTROLS AND FEATURES Squeegee Lift Handle (Manual Squeegee Lift) (See figure 2) The squeegee lift handle is located below the control handles in the center. It is used to raise or lower the squeegee. Float Shut Off (See Figure 3). The shut-off switch for the vac motor is located in the recovery tank. It automatically turns off the vac motor when the recovery tank is full.

**HOW TO PREPARE THE MACHINE FOR OPERATION How To Install The Batteries** This machine uses four - 6 volt batteries. The batteries are located in the battery compartment under the recovery tank. To install the batteries, follow this procedure: 1. Turn machine off. Set brake (if equipped).

2. 3. Make sure recovery tank is empty. Tip up the recovery tank to it's full open position. See figure 4. CAUTION: Before raising the tank, be sure tank is empty. Do not operate the machine while the recovery tank is in the open position. The tank can be accidentally bumped and it may slam shut. Figure 2
- WARNING: Figure 3 4. Place the batteries in the tray as shown in Figure 5.

WARNING: The batteries are heavy. Lifting batteries without help could result in an injury. Get help to lift the batteries. Working with batteries can be dangerous. Always wear eye protection and protective clothing when working near batteries. NO SMOKING! WARNING: Figure 4 FRONT 5. 6. 7. Connect the cables between batteries and install battery cable assembly as indicated. See figure 5.

Join the connector from the battery pack to the connector on the control panel. Close recovery tank by slowly lowering the tank. WARNING: Never charge any battery with an unsuitable battery charger. Carefully follow the instructions by the manufacturer of the batteries and battery charger. Figure 5 -10- FORM NO.

71492A revised 9/10 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH HOW TO PREPARE THE MACHINE FOR OPERATION How to program battery charger (WET or AGM batteries): According to the type of batteries (WET or AGM), set the machine and electronic board of the battery charger as follows: Charger Setting 1. Turn the key switch "ON" (see figure 5A, item A) and in the very first seconds of machine operation pay attention to the following: · If the green warning light (item B) is flashing, the charger is set to AGM. · If the yellow warning light (item C) is flashing, the charger is set to GEL EXIDE. · If the red warning light (item D) is flashing, the charger is set to WET. If the setting is to be changed, perform the following procedure: a.

Turn the key switch "OFF". b. Press and hold the buttons (items E and F) at the same time, then turn the key switch (item A) "ON". c. Continue to hold the buttons (items E and F) until the battery meter LED light turns "ON" and "OFF" and then release both buttons. d. Within 3 seconds, toggle the button (item F) to advance the green bar (item G) to the desired charger setting (see green bar position for charger settings below): Green bar setting (item G) · 1st green bar - WET @ 25 amps, 250 & 330 ah batteries (4 RED blinks). · 2nd green bar - GEL/AGM @ 25 amps, 260 & 312 AGM (4 GREEN blinks). · 3rd green bar - GEL EXIDE @ 25 amps (4 YELLOW blinks). · 4th green bar - WET @ 15 amps (2 RED blinks).

· 5th green bar - GEL/AGM @ 15 amps (2 GREEN blinks). · 6th green bar - GEL EXIDE @ 15 amps (2 YELLOW blinks). e. Once proper battery charger profile is selected, wait until battery LED light quits flashing and stays on before turning key switch "OFF". f. Repeat step 1 to verify that proper charger profile was programmed for battery type (WET or GEL). NOTE: Charge the batteries before using the machine. EN E F G D CB A 2. Figure 5A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 11 - ENGLISH EN HOW TO PREPARE THE MACHINE FOR OPERATION Battery Maintenance The electrical power to operate the machine comes from the storage batteries.

Storage batteries need preventative maintenance. WARNING: Working with batteries can be dangerous. Always wear eye protection and protective clothing when working near batteries. NO SMOKING! Correct Level To maintain the batteries in good condition, follow these instructions: 1. Keep the electrolyte at the correct level.

The correct level is between 1/4" (1/2 cm) below the bottom of the tube in each cell and above the tops of the plates. Check the level of the electrolyte each time you charge the batteries. See figure 6. NOTE: Check the level of electrolyte prior to charging the batteries. Be sure the plates in each cell are covered with electrolyte before charging.

Do not top off the cells prior to charging the battery. Electrolyte expands during charging. As a result, the electrolyte could overflow from the cells. Always top off the cells with distilled water after charging. CAUTION: Irreversible damage will occur to the batteries if electrolyte does not cover the plates. Keep the electrolyte at the correct level. Machine damage and discharge across the tops of the batteries can occur if the batteries are over filled. Do not fill the batteries up to the bottom of the tube in each cell. Wipe any acid from the machine or the tops of the batteries. Never add acid to a battery after installation.

Batteries must be refilled with distilled water only. Do not use tap water as it may contain contaminants that will damage batteries. Figure 6 CAUTION: CAUTION: Figure 7 2. Keep the tops of the batteries clean and dry. Keep the terminals and connectors clean. To clean the top of the batteries, use a damp cloth with a weak solution of ammonia or bicarbonate of soda solution. To clean the terminals and connectors, use a terminal and connector cleaning tool.

Do not allow ammonia or bicarbonate of soda to get into batteries. Keep the batteries charged. To drain battery compartment: (See figure 7) a. Always wear protective eye protection and protective clothing. b. Add a weak solution of ammonia or bicarbonate of soda solution to battery compartment to neutralize any spilled acid. c. Locate drain hose behind the transaxle. d. Place hand behind flange and open valve. e. When empty, close valve. f.

Neutralize any acid spills with ammonia or bicarbonate of soda. 3. 4. -12- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH HOW TO PREPARE THE MACHINE FOR OPERATION How To Charge The Batteries WARNING: Charging the batteries in an area without adequate ventilation could result in an explosion. To prevent an explosion, charge the batteries only in an area with good ventilation.

WARNING: Lead acid batteries generate gases which could explode. Keep sparks and flames away from batteries. NO SMOKING! To charge the batteries, follow this procedure: 1. 2.

Make sure the key switch is in the "OFF" position.



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Before charging the batteries, the battery compartment needs to be vented. To vent compartment, tip up the recovery tank and rotate the tank support bracket, located in the solution tank (see figure 8). Slowly lower the recovery tank and let it rest on the support bracket (see figure 9). To close the tank, lift up on the recovery tank, rotate the support bracket down, then slowly lower the tank to the closed position. CAUTION: Before raising tank, be sure tank is empty.

WARNING: Do not operate the machine while the recovery tank is in the open position. The tank can be accidentally bumped and it may slam shut. 3. 4. Connect the battery charger AC cord located at the rear of the machine to an appropriate wall receptacle. Observe indicator lights on the charger/battery meter to ensure the charging process has started. Red, yellow and green lights indicate state of charge. Steady on green light indicates the batteries are fully charged. Figure 9 Figure 8 EN NOTE: Make sure you plug into a circuit that is not loaded by other equipment.

Wall breakers may be tripped and no charge will occur. WARNING: Never charge any battery with an unsuitable battery charger. Carefully follow the instructions given by the manufacturer of the batteries and battery charger. NOTE: To prevent permanent damage to the batteries, avoid their complete discharge. Never leave the batteries completely discharged, even if the machine is not being used.

When recharging the batteries, keep the recovery tank open. Check the level of the electrolyte and if necessary top off with distilled water. Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C revised 9/10 FORM NO. 71492A - 13 - ENGLISH EN HOW TO PREPARE THE MACHINE FOR OPERATION How To Install The Brush Or Pad (BOOST Machine) To install the brush or pad on the machine, follow this procedure: 1. 2. 3. 4. 5. Turn the key switch "ON". Put the brush head assembly in the "Up" position.

Turn the key switch "OFF". Go to the front of the machine. Press on a brush or pad, under the flex plates. See figure 10. Figure 10 NOTE: When using a black pad, position pad on head. Lower head and operate momentarily to affix pad to pad driver (if you have difficulty, position pad on floor and lower head then operate.) How To Remove The Brush Or Pad (BOOST Machine) To remove the brush or pad from the machine, follow this procedure: 1. Turn the key switch "ON". 2. Put the brush head assembly in the "Up" position.

3. Turn the key switch "OFF". 4. Go to the front of the machine and pull downward on the brush or pad until it releases from the flex plates. See figure 11. Figure 11 -14- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH HOW TO PREPARE THE MACHINE FOR OPERATION How To Install The Brushes Or Pad Drivers On The Disc Machine To install the brushes or pad drivers on the machine, follow this procedure: 1. 2. 3. 4.

5. 6. 7. 8. 9. Turn the key switch "ON". Put the brush head assembly in the "UP" position. Turn the key switch "OFF". Unlatch right and left brush housings and remove them. See figure 12.

Put a brush or pad driver under the brush motor plate. See figure 13. Align the lugs on the motor gimbal with the slots in the brush gimbal. Pull the brush up until the gimbal locks. Repeat steps 5, 6 and 7 to install the second brush or pad driver. Reinstall right and left brush housings and latch front cover.

DANGER: Operating a machine that is not completely or fully assembled could result in injury or property damage. Do not operate this machine unless it is completely assembled. Inspect the machine carefully before operation. EN Figure 12 Figure 13 How To Remove The Brushes Or Pad Drivers On The Disc Machine To remove the brushes or pad drivers from the machine, follow this procedure: 1.

Turn the key switch "ON". 2. Put the brush head assembly in the "UP" position. 3. Turn the key switch "OFF".

4. Unlatch right and left brush housings and remove them. See figure 12. 5. Push down on two sides of the brush or pad driver until the gimbals release. Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 15 - ENGLISH EN HOW TO PREPARE THE MACHINE FOR OPERATION How To Change Or Reverse Bristle Direction On Cylindrical Machine To install or reverse bristle direction on the machine, follow this procedure: 1. 2. 3. 4. 5. 6. 7. Turn the key switch "ON". Put the brush head assembly in the "UP" position.

Turn the key switch "OFF". Go to the front of the machine and loosen thumb screw on brush door. See figure 14. Lower door approximately 1/2 inch and remove brush door. Remove brush. See figure 15. Inspect brush condition. If damaged or worn, replace it. Otherwise, turn brush end for end periodically to reverse bristle direction for better life. Slide brush onto driver or opposite side and rotate slowly until drive lugs are lined up with brush slots.

Push brush all the way in. Install brush door assembly into brush. Raise door and tighten thumb screw. Repeat for the other brush. DANGER: Operating a machine that is not completely or fully assembled could result in injury or property damage.

Do not operate this machine unless it is completely assembled. Inspect the machine carefully before operation. Figure 15 Figure 14 8. 9. 10.

11 -16- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH HOW TO OPERATE THE MACHINE How To Operate the Squeegee The squeegee wipes the floor while the vacuum motor removes the dirty solution from the floor. Use your hand to lower or raise the squeegee handle. To operate the squeegee, follow this procedure: 1. To lower the squeegee rotate the squeegee lever down. See figure 16. 2. To raise the squeegee, rotate the squeegee lever up. See figure 16. How to Fill The Solution Tank 1.

Remove the solution tank lid. See figure 17. 2. If the machine does not have the Chemical Mixing System, add a cleaning chemical to the solution tank. For the correct amount of chemical, follow the directions shown on the container. 3. Fill the solution tank with water. 4. Replace solution tank lid. WARNING: Water solutions or cleaning materials used with this type of machine can leave wet areas on the floor surface.

@@Always put CAUTION signs near the area you are cleaning. Machines can ignite flammable materials and vapors. Do not use with or near flammables such as gasoline, grain dust, solvents, and thinners. @@Nilfisk ALTO recommends a maximum water temperature of 120°F(49°C) Figure 17 Figure 16 EN WARNING: WARNING: Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 17 - ENGLISH EN HOW TO OPERATE THE MACHINE How To Operate The Chemical Mixing System (Optional) The chemical mixing system is designed to automatically mix the cleaning chemical directly from the manufacturer's chemical container into the clear water coming from the solution tank.



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@@The ratio settings are shown in figure 19. CAUTION: Do not operate the chemical pump dry. @@@Select the proper cleaning chemical for scrubbing application. 2. @@3.

Make sure the recovery tank is empty and then open the recovery tank. 4. @See figure 18A & 18B 5. Remove container cap and insert bottle adapter and tighten cap. 6. Slowly close the recovery tank. @@@@Always put CAUTION signs near the area you are cleaning. WARNING: Machines can ignite flammable materials and vapors. @@@@2. 3.

Move the machine in a straight direction, forward and backward. Stop the machine safely. @2. 3. 4. 5. 6. 7. 8. Release the parking brake (if equipped with machine).

Turn the key switch to the "ON" position Raise the brush. Raise the squeegee. @@@To stop, release the forward palm buttons. @@To stop, release the forward palm buttons. To turn the machine, push the rear of the machine to the side.

@@10. @@@@Always put CAUTION signs near the area you are cleaning. To clean a floor, follow this procedure: 1. Set the parking brake (if equipped with machine.) 2.

3. 4. 5. 6. 7. 8. 9. Put the water and a cleaning chemical in the clean solution tank. @@Lower the squeegee. Press the one touch control button to lower the brush head assembly and start vacuum motor.

Adjust the flow of clean solution to the flow desired. Move the machine across the floor in the forward direction. Make a 180° turn. NOTE: When you make more passes across the floor, let the brush clean approximately 2 inches (5 cm) of the area already cleaned by the brush. NOTE: During most cleaning procedures, apply and remove the solution in one operation. How To Clean A Very Dirty Floor To clean a very dirty floor, follow this procedure: 1. Apply solution to the floor. 2. 3. 4.

5. Do not lower the squeegee. Shut vacuum motor "OFF". Lower the brush or pad and scrub the floor. Scrub the floor again with additional solution and lower the squeegee and turn vacuum motor "ON".

Pick up all the solution with the squeegee. -20- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH MAINTENANCE WARNING: Maintenance and repairs must be done by authorized personnel only. WARNING: Always empty the solution tank and recovery tank before doing any maintenance. WARNING: Keep all fasteners tight.

These Maintenance Procedures Must Be Done Every Day Keep the machine clean, it will need fewer repairs and have longer life. Do These Procedures When You Begin Your Work Period 1. Turn off key switch. 2. Disconnect AC power from battery charger (follow charger instructions). 3. Make sure the screen filter over the vacuum motor is clean and in position (see figure 21. 4. Make sure the valve on the recovery drain hose is clean. Tightly close the valve.

5. Make sure the brushes are in position and installed correctly 6. Check the installation of the squeegee and squeegee hose. 7. Make sure the solution drain/level indicator hose is secure on upper fitting. Figure 21 EN Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 21 - ENGLISH MAINTENANCE EN Do These Procedures When You End Your Work 1. Drain the solution tank (if necessary) (Figure 22) and the recovery tank (Figure 23). To drain the tanks, follow this procedure: a. Turn the key switch "OFF".

b. Remove the drain hose from the back of the machine. c. Put the end of the hose over a drain or bucket. d.

Recovery Tank: Turn the drain cap counterclockwise to open. Solution Tank: When hose is lowered to water level, water will flow. 2. Flush the tanks. To flush the tanks, put clean water in the tank through the opening on top of the tank.

3. If a tank or drain hose has an obstruction, use a water hose to flush the tank or hose. Put the water hose into the drain hose. 4. Leave the tanks and the recovery drain valve open to dry in the air. 5. Check the squeegee blade. Use a cloth to clean the squeegee blade. If the squeegee blade is damaged or worn, turn or replace the blade. 6.

Check and clean the solution lid gasket. Use a mild cleaning solution and rinse the parts in clean water. Check the batteries and if necessary add distilled water after charging. The correct level is within 1/4 inch (1/2 cm) of the bottom of the tube in each cell. CAUTION: Tap water may contain contaminants that will damage batteries. Batteries must be refilled with DISTILLED WATER ONLY. Lead acid batteries generate gases which can cause an explosion. NO SMOKING. Always wear eye protection and protective clothing when working near batteries. Figure 23 Figure 22 WARNING: Use a clean cloth and wipe the surface of the machine.

Charge the batteries. See the instruction in the section of this book called "How To Charge The Batteries". -22- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH MAINTENANCE These Maintenance Procedures Must Be Done Every Week: WARNING: Maintenance and repairs must be done by authorized personnel only. Always empty the solution tank and the recovery tank before doing any maintenance.

Keep all fasteners tight. Always wear eye protection and protective clothing when working near batteries. Do not put tools or other metal objects across the battery terminals or the tops of the batteries. To prevent damage to the machine, and discharge across the tops of the batteries, do not fill the batteries above the bottom of the tube in each cell. Wipe any acid from the machine or the tops of the batteries.

Do not add acid to battery after installation. EN WARNING: CAUTION: Figure 24 NOTE: Always turn off key switch before servicing the machine.

WARNING: Always wear eye protection and protective clothing when working near batteries. NO SMOKING! 1. To inspect batteries, tip up recovery tank to its full open position. See figure 24. To close the tank, slowly lower the tank to the closed position. CAUTION: WARNING: Before raising the tank, be sure tank is empty. Do not operate the machine while the recovery tank is in the open position. The tank can be accidentally bumped and it may slam shut.

2. Disconnect the batteries. Use a cloth and a solution of ammonia or bicarbonate of soda to wipe the top of the batteries. Clean the battery terminals.

Reconnect the batteries. 3. Check the hoses for leaks, obstructions and other damage. Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 23 - ENGLISH MAINTENANCE EN Maintenance For The Squeegee To remove the squeegee, follow this procedure: 1. Remove the squeegee assembly by loosening the two knobs that attach the squeegee to the machine.

Pull the squeegee assembly off. See figure 25. 2. Inspect the squeegee blades. 3.

If the blades are worn, unclamp bands and turn the blade so that a new edge is in the wiping position (see figures 25A and 25B). 4. Reinstall squeegee assembly on the machine. Adjusting Squeegee Tilt The tilt of the squeegee causes the rear blade to raise up in the center or on the ends, depending on which direction the tilt is changed.

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Turn the adjusting screw clockwise or counterclockwise (see figure 26), to achieve uniform squeegee blade flare.

**WARNING:** Maintenance and repairs must be done by authorized personnel only. Figure 25A **WARNING:** Electrical repairs must be done by authorized personnel only. Figure 25 Maintenance Procedures Must Be Done : Contact a Nilfisk ALTO Authorized Service Center to perform these procedures. Every 500 hrs (heavy) 1000 hrs (normal) 1. Check the carbon brushes in the electric motors. 2. Clean the battery terminals and connectors. Make sure all of the battery connections are tightened correctly. Figure 25B 3. Check all of the switches, controls, valves, hoses and gaskets.

4. Check and remove debris from the transaxle hubs. Every 500 hrs (BOOST Only) 1. Replace the rubber isolators (see Brush Head Assembly Parts List section). The rubber isolators are considered wear items and must be replaced between 500 hrs (heavy) and 1000 hrs (normal). Figure 26 -24- FORM NO. 71492A revised 9/10 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH HOW TO CORRECT PROBLEMS IN THE MACHINE PROBLEM The machine does not remove all the water from the floor. EN CAUSE The squeegee is up The vacuum tank is full. The screen filter is dirty. There is an obstruction or damage in the squeegee, squeegee hose or standpipe.

The vacuum motor is not running. The squeegee hose is disconnected. The squeegee blade is damaged, worn, or incorrectly installed. The gasket on the cover of the recovery tank is damaged. The recovery drain hose valve is not closed.

Drain the tank. ACTION Lower the squeegee. Clean the screen filter. Remove the obstruction or repair the damage. Check for blown fuse. Have an authorized service person make repairs. Connect the hose. Turn or replace the squeegee blade. Correctly install the squeegee blade. Replace the gasket. Close valve. The batteries do not give the normal running time. The battery terminals are dirty or damaged. The electrolyte level is too low. The batteries are not fully charged.

Clean the terminals and connectors. Replace the damaged cables. Charge the batteries. Add distilled water to each cell and charge the batteries. Charge the batteries for a full 16 hour charge. The charger is damaged. Have an authorized service person repair the charger. The battery is defective. Have an authorized service person check voltage of each cell while discharging. The batteries are disconnected.

Connect the batteries. The cleaning is not even. The scrub brushes or pads are worn. There is damage to the brush assembly, casters or the solution valve. One or both brush motors are not running The solution level is low.

Replace the scrub brushes or pads. Have an authorized service person make the needed repairs. Check for tripped breaker, reset. Check for loose connections. Fill the solution tank.

**NOTE:** If the motors continue to stop consult an authorized service person. The machine does not run. The machine loses power. Reset the circuit breaker.

Check wire connection to traverse motor. Replace the fuses. Check the batteries connections. Release parking brake (if installed) **NOTE:** If the motors continue to stop, consult an authorized service person. Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 25 - ENGLISH EN -26- FORM NO.

71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH EN Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 27 - ENGLISH EN NOTES -28- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH EN SCRUBTEC 8 SCRUBTEC 866 SCRUBTEC 871 SCRUBTEC 871C SCRUBTEC 886 Section II Parts and Service Manual (71492A) Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 29 - ENGLISH EN Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Solution Tank Assembly 26 25 27 26 1 2 26 4 3 5 7 6 8 9 10 11 12 8 13 14 14 15 24 23 17 28 22 28 21 -30- FORM NO. 71492A 20 19 18 16 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Solution Tank Assembly Parts List 12/08 Ref # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 Part No. 39887A 61930A 170860 80317A 88630A 30796A 71496A 80196A 80205A 80176A 54773A 30804A 30792A 980643 964004 9095149000 722030 32100A 31242A 9097028000 59614A 34704A 820207 9095286000 40172A 41206A 41060A 41080A 50248A Description Gasket Handle Rod, Recovery Tank Prop Washer, Flat 5/16 Washer, Bowed .455 ID x .740 OD Bolt, M6-1 x 8 x 10MM SHSB Tank, Solution Label, Nilfisk ALTO Nut, M5-.8 Nylock SS Screw, M5 x 0.8 x 20MM Pan Head Screw, M5 x 12 PHSS Lanyard Lid, Solution Rear Fill Hose, Level/Drain Washer, 7/16 OD x .036 THK Screw, M5-.8 x 16MM PN ST PH Cord Wrap Clamp, Hose Connector, Straight Bushing Valve, Solution Valve, Battery Drain Hose, Clear Vinyl Adapter, Solution Hose Gasket, Valve Solution Cable, Series (Ring Style) Cable, Series (Taper Style) Cable, Battery (Ring Style) Cable, Battery (Taper Style) Clamp, Hose Qty 3 1 2 1 1 1 1 1 1 1 1 1 1 4 2 1 1 2 2 1 1 1 1 1 1 3 3 1 1 2 EN Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 31 - ENGLISH EN Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Recovery Tank Assembly Drawing 12/08 1 35 36 2 3 4 5 31 30 6 7 8 9 10 32 21 33 34 28 12 37 29 27 26 25 24 23 22 21 20 19 18 12 38 36 11 17 16 15 14 13 -32- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Recovery Tank Assembly Parts List 12/08 Ref # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 EN Part No. 30798A 58069A 39718A 30805A 837304 30797A 87612A 40002A 30827A 30791A 30799A 54774A 80410A 87026A 9096638000 9096672000 9096051000 9096491000 9096490000 43401A 41809A 9097367000 9096442000 30823A 80179A 52548A 920797 71451A 71447A 71448A 71450A 71449A 30832A 43402A 80363A 9096634000 82100A 9096643000 9096679000 80057A 53371A 60367A Description Lid, Recovery Tank Screen, Vac Filter Gasket, Recovery Lid Tube, Stand O-Ring Tank, Recovery Seal, Washer Switch, Float Electrical Lid, Tray Debris Tray, Debris Hose, Drain Clamp, Hose Screw, 6MM x 1.00 x 35MM Lg Hex Washer, 1/4 Flat SS Plate Cover Filter Cover, Vac Panel, Acoustic Insulation Gasket, Vac Housing, Connector Contact, Housing Connector Motor, Vacuum Pipe, Acoustic Insulation Gasket, Vac Motor Screw, M6 x 15 Tab, 1/4" Screw Nut, Drain Valve Label, Scrubtec BOOST 8 Label, Scrubtec 866 Label, Scrubtec 871 Label, Scrubtec 886 Label, Scrubtec 871C Hose, Squeegee Housing, Connector Screw, M5 x 12 BT Cable Locknut, 1/2" Conduit Plate Spacer Screw, M4-



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7 x 10 Clamp, Hose ("P" Trap) Plate, Retainer Qty 1 1 1 1 1 1 1 1 1 1 1 2 3 3 3 1 1 1 1 2 4 1 1 1 2 2 1 2 2 2 2 2 1 2 2 2 1 2 1 4 2 2 29 30 31 32 33 34 35 36 37  
38 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 33 - ENGLISH EN Nilfisk ALTO Scrubtec  
866, 871, 886 and BOOST 8 Handle Assembly Drawing 9/10 18 17 26 18 17 16 17 25 19 20 19 15 14 23 13 11 24 12 9 2 10 1 2 3 4 5 6 7 8 -34- FORM NO.  
71492A revised 9/10 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C 16 17 18 2 22 21 ENGLISH Nilfisk ALTO  
Scrubtec 866, 871, 886 and BOOST 8 Handle Assembly Parts List 9/10 Ref # 1 2# 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 NI EN  
Part No. 50962A 962957 61922A 41078A 11131A 80192A 52556A 1462888000 30785A 71425A 61929A 39886A 41067A 50267A 30784A 87902A 980614  
87007A 88628A 41431B 39888A 980643 30831A 61948A 980205 980666 41063A Description Knob, Speed Control Screw, 10-16 x 1/2 Self Tap Retainer, 5K  
Potentiometer Harness, Potentiometer Asm.

Switch, Control Handle Asm. Screw, M5-0.8 x 10MM Oval Phil. Switch, Push Button Switch, Key Handle, Control Label, Control Panel Panel, Control  
Gasket, Console 9.50 Board, Function Screw, 8-32 x .375 Housing, Control Screw, 6MM x 1.00 x 30MM LG Hex Washer, 1/4" Starlock, External Washer  
Control Shaft Screw, 6MM x 1.00 x 45MM LG Hex Breaker, 35A Circuit Retainer, Drain Hose Washer, 7/16 OD x .036 THK Insulator, Mylar Washer, Tab  
Ground Washer, .31 I.

D. x 1.06 O.D. Washer, 3/8 Starlock Harness, Key Switch Qty 1 10 1 1 2 4 1 1 1 1 1 1 1 4 1 4 8 6 4 2 1 2 1 1 2 2 1 # = Revised or new since last update Nilfisk  
ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C revised 9/10 FORM NO. 71492A - 35 - ENGLISH EN Nilfisk ALTO Scrubtec  
871C Handle Assembly Drawing 9/10 18 17 26 18 17 16 17 25 19 20 19 15 14 23 13 11 24 12 9 2 10 1 2 3 4 5 6 7 8 -36- FORM NO. 71492A revised 9/10  
Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C 16 17 18 2 22 21 ENGLISH Nilfisk ALTO Scrubtec 871 C Handle  
Assembly Parts List 9/10 Ref # 1 2# 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 NI EN Part No. 50962A 962957 61922A 41078A  
11131A 80192A 52556A 1462888000 30785A 71484A 61929A 39886A 41067A 50267A 30784A 87902A 980614 87007A 88628A 41422B 39888A 980643  
30831A 61948A 980205 980666 41063A Description Knob, Speed Control Screw, 10-16 x 1/2 Self Tap Retainer, 5K Potentiometer Harness, Potentiometer  
Asm. Switch, Control Handle Asm. Screw, M5-0.

8 x 10MM Oval Phil. Switch, Push Button Switch, Key Handle, Control Label, Control Panel Cyl. Panel, Control Gasket, Console 9.50 Board, Function  
Screw, 8-32 x .375 Housing, Control Screw, 6MM x 1.

00 x 30MM LG Hex Washer, 1/4" Starlock, External Washer Control Shaft Screw, 6MM x 1.00 x 45MM LG Hex Breaker, 25A Circuit, Traverse Retainer,  
Drain Hose Washer, 7/16 OD x .036 THK Insulator, Mylar Washer, Tab Ground Washer, .31 I.D.

x 1.06 O.D. Washer, 3/8 Starlock Harness, Key Switch Qty 1 10 1 1 2 4 1 1 1 1 1 1 1 4 1 4 8 6 4 2 1 2 1 1 2 2 1 # = Revised or new since last update Nilfisk  
ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C revised 9/10 FORM NO. 71492A - 37 - ENGLISH EN Nilfisk ALTO Scrubtec  
866, 871, 886, BOOST 8, and 871C Electrical Box Assembly Drawing 10/08 1 2 3 4 5 6 7 8 9 20 19 18 17 16 15 14 13 12 11 10 3 -38- FORM NO. 71492A  
Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C  
Electrical Box Assembly Drawing 12/08 Ref # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 NI NI EN Part No. 80249A 980643 962027 61933A 41068B  
80380A 41810A 980614 85391A Ref. 54764A 41075A Ref. 41073A 962979 920056 Ref. 41074A 41069B 54763A 41065B 41061A WARNING: Description  
Screw, M5-.

8 x 12MM Hex Washer, 7/16 OD x .036 THK Screw, 8-32 x 1/2 P.H. Plate, Electrical Controller, I-Drive 24V Traverse Screw, 8-32 x 1 1/4" P.H. Contactor,  
Brush 24V Washer, 1/4" Starlock External Screw, 1/4-20 x .625 Pan Hd. Relay Holder (included in 41061A Harness) Insert, Hex 1/4-20 UNC Relay Fuse  
Holder (included in 41061A Harness) Fuse, 30A (see WARNING below) Screw, 6-32 x 1/2 PN ST PH Nut, 6-32 E.S.N.

A. Nylock Fuse Holder (included in 41061A Harness) Fuse, 60A (see WARNING below) Relay, i-Drive 24V Traverse Insert, Hex #8-32 UNC Harness,  
Traverse Harness, Machine To reduce the risk of fire, when replacing fuse, replace only with same type and rating of fuse that comes with machine. Qty 3 3 3  
1 1 2 1 2 2 1 2 1 1 1 2 2 1 1 1 7 1 1 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 39 -  
ENGLISH EN Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Squeegee Holder Assembly Drawing 12/08 1 2 3 4 29 5 6 7 8 9 10 30 11 28 12 10  
27 13 26 25 9 24 9 23 17 17 13 22 18 19 21 16 14 15 20 -40- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8  
and 871C ENGLISH Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Squeegee Holder Assembly Parts List 12/08 Ref # 1 2 3 4 5 6 7 8 9 10 11 12  
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 EN Part No.

52557A 980666 85389A V17027 9097366000 9096537000 80199A 925044 80198A 980651 9096052000 9096538000 87613A 61953A 9096497000 80163A  
38708A 80223A L08602422 L08601509 54699A 9096045000 964054 87007A 1462258000 9096495000 61952A 80179A 80171A 88640A Description Knob,  
Lift Washer, 3/8 Starlock External Screw, 3/8-16 x 5/8 Joint, Ball Cable, Lift Spring, Squeegee Left Nut, M6-1.00 Nylock S.S. Pin, Cotter .094 x 1.

00 Nut, M8-1.25 Nylock S.S. Washer, 5/16 Flat Support, Spring Spring, Squeegee Right Washer, Flat .22 x .64 x .10 Nylon Plate, Squeegee Support Pin,  
Squeegee Mounting Nut, M8-1 Hex Spacer Nut, M10-1.5 Nylock Spacer Pin Knob, M8 x 55 Bracket, Squeegee Screw, M6-1 x 25MM Hex Washer Spacer  
Screw, Socket Head Lever, Squeegee Lift Screw, M6 x 15 Pan Nut, M6 Hex Nut, M6-1 Acorn Qty 1 1 1 1 1 1 1 2 4 4 1 1 2 1 1 1 2 1 1 1 1 1 1 2 1 2 1 1 1 1  
Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C FORM NO. 71492A - 41 - ENGLISH EN Nilfisk ALTO Scrubtec 866,  
871, 886, BOOST 8, and 871C Squeegee Assembly Drawing 10/08 20 1 2 22 3 4 5 6 7 8 9 10 11 12 21 15 16 17 14 13 18 19 -42- FORM NO. 71492A Nilfisk  
ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C  
Squeegee Assembly Parts List 1/10 For Models with Squeegee Size 32.

5" Ref # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 Part No.



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83009A 9098321000 9097356000 9097357000 30816U 88629A 9096505000 87026A 80199A 29927A 9098257000 9096682000 962157 54647A 88609A 80317A 30048A 30817U 60465A 88632A 60564A 39717A Description Rivet, Pop 5/32 Dia., .126-.187 G Latch Squeegee Support, Squeegee Strap, Wldmt., Squeegee Blade, 32.5" Rear Urethane Screw, M6-1 x 55MM Hex Wheel, Squeegee Washer, 1/4 Flat S.S. Nut, M6 x 1.00 Nylock S.

S. Frame, 32.5" Squeegee Nut Thumb Washer, Rubber Screw, 5/16-18 x 1.25 Hex Knob, M8 x 30 Screw, 5/16 x 3/8 x 5/8 SHSS Washer, Bowed .455 ID x 7.40 OD Guide, Wheel Blade, 32.5" Front Urethane Strap, Wldmt., Squeegee Screw, Set M8-1.25 x 30MM Shim, Screw Pad, Squeegee Qty 2 1 1 1 1 2 2 2 2 1 2 2 2 1 1 2 1 1 2 1 EN Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C revised 1/10 FORM NO. 71492A - 43 - ENGLISH EN Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Squeegee Assembly Drawing 10/08 20 1 2 22 3 4 5 6 7 8 9 10 11 12 21 15 16 17 14 13 18 19 -44- FORM NO.

71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Squeegee Assembly Parts List 1/10 For Models with Squeegee Size 35" Ref# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 Part No. 83009A 9098321000 9097361000 9097362000 30815U 88629A 9096505000 87026A 80199A 29928A 9098257000 9096682000 962157 54647A 88609A 80317A 30048A 30818U 60466A 88632A 60564A 39717A Description Rivet, Pop 5/32 Dia., .126-.187 G Latch Squeegee Support, Squeegee Strap, Wldmt., Squeegee Blade, 35" Rear Urethane Screw, M6-1 x 55MM Hex Wheel, Squeegee Washer, 1/4 Flat S.S. Nut, M6 x 1.00 Nylock S.S.

Frame, 35" Squeegee Nut Thumb Washer, Rubber Screw, 5/16-18 x 1.25 Hex Knob, M8 x 30 Screw, 5/16 x 3/8 x 5/8 SHSS Washer, Bowed .455 ID x 7.40 OD Guide, Wheel Blade, 35" Front Urethane Strap, Wldmt., Squeegee Screw, Set M8-1.25 x 30MM Shim, Screw Pad, Squeegee Qty 2 1 1 1 1 2 2 2 2 1 2 2 2 1 1 2 1 1 2 1 EN Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C revised 1/10 FORM NO. 71492A - 45 - ENGLISH EN Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Squeegee Assembly Drawing 10/08 20 1 2 22 3 4 5 6 7 8 9 10 11 12 21 15 16 17 14 13 18 19 -46- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Squeegee Assembly Parts List For Models with Squeegee Size 41" Ref# 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 Part No. 83009A 9098321000 9097375000 9097376000 30814U 88629A 9096505000 87026A 80199A 29929A 9098257000 9096682000 962157 54647A 88609A 80317A 30048A 30819U 60546A 88632A 60564A 39717A Description Rivet, Pop 5/32 Dia., .126-.187 G Latch Squeegee Support, Squeegee Support, Squeegee Blade-Squeegee 42in Screw, M6-1 x 55MM Hex Wheel, Squeegee Washer, 1/4 Flat S.S. Nut, M6 x 1.00 Nylock S.

S. Frame, 42" Squeegee Nut Thumb Washer, Rubber Screw, 5/16-18 x 1.25 Hex Knob, M8 x 30 Screw, 5/16 x 3/8 x 5/8 SHSS Washer, Bowed .455 ID x 7.40 OD Guide, Wheel Blade, 42" Front Urethane Strap, Wldmt.

, Squeegee Screw, Set M8-1.25 x 30MM Shim, Screw Pad, Squeegee Qty 2 1 1 1 1 2 2 2 1 2 2 2 1 1 1 2 1 1 2 1 EN Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C revised 6/10 FORM NO. 71492A - 47 - ENGLISH EN Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Frame Assembly -48- FORM NO. 71492A revised 6/10 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Frame Assembly Parts List 9/10 Ref# Part No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 88633A 170860 61937A 88620A 9097456000 88635A 9096112000 9097402000 40280A 80198A 88618A 88626A 87026A 1462258000 80199A 9097368000 88616A 87054A 80214A 59789A 30828A 88624A 61932A 88623A 9097370000 9097404000 722030 80057A 30829A 57994A EN Description Screw, M8 x 85 Hex Head Washer, Flat 5/16 Spacer, .590 OD x .328 ID Screw, M12 x 90M Hex Lever Screw, M8 x 75 Hex Head Spacer Actuator (for all models except BOOST) Actuator (for BOOST 28/32 models only) Nut, M8-1.25 Nylock S.S. Nut, M12 Nylon Insert Screw, M6-1 x 40MM Hex Washer, 1/4 Flat S.

S. Spacer Nut, M6-1.00 Nylock S.S. Support, Jack Motor Screw, M10 x 75M Hex Washer Fender .375 Screw, M6 x 1 x 12 Valve, Solution Hose, Clear x 25.00 Long Screw, M5 x 12MM Hex Self Tap Bracket, Solution Valve Nut, M4-.7 Nylock Insert Bracket, Filter Filter, Water Clamp, Hose Screw, M4-.7 x 10 Hose, Clear x 3.00 Long Screw, M6-1 x 20 Qty 2 4 2 1 1 1 2 1 1 3 1 1 6 2 8 1 1 5 2 1 1 4 1 2 1 1 4 2 1 9 Ref# Part No. 30 31 32 33 34 35 36 37# [ ] 40 41 42 43 44 45 46 47 48 49 50 51 52 53# 54 55 56 57 58 [ ] [ ] [ ] 980614 980205 69639A 88612A 88614A 61949A 41081A 56380160 40628A 88611A 88613A 9095202000 80196A 61934A 54772A 80249A 920160 962157 60580A 980652 80183A 980657 41077A 61931A 80223A 9096113000 54689A 71017A 41062A 40512B 40297A Description Qty 3 2 1 10 6 1 1 1 6 4 1 4 1 1 4 1 1 2 8 8 4 1 1 1 2 1 1 1 1 1 Washer, 1/4" Starlock External Washer, .31 ID x 1.06 OD Strap, Static Washer, Lock M10 Screw, M10-1.5 x 20MM Bracket, Ground Strap Cord, Charger NEMA NOTE 1 Transaxle TSBCL2010-25, TSBCL2009-02 Carbon Brushes, Transaxle (Set) Washer, Flat M10 Screw, M10-1.5 x 16MM Hex Caster, Rear Nut, M5-.8 Nylock SS Bracket, Brake Clamp, Toggle Straight Line Screw, M5-.8 x 12MM Hex Nut, 5/16 Jam Hex Screw, 5/16-18 x 1.25 Hex Hd Wheel, 10" Foam Filled Washer, 5/16 Lock Bolt, M8-1.25 x 20, Hex Washer, Lock 1/4 Charger, Battery NOTE 1 TSBCL2009-04 Chassis, Wldmt Nut, M10-1.5 Nylock Spacer Gas Spring 500N Label, Moving Parts Harness Chrg Jumper NOTE 2 Charger Battery 25 Amp NOTE 2 Cable Charger Adapter1 NOTE 2 # = Revised or new since last update [ ] = Not Shown #NOTE 1: Only used on models with on-board charger.

#NOTE 2: Only used on models without on-board charger. Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C revised 9/10 FORM NO. 71492A - 49 - ENGLISH EN Nilfisk ALTO Scrubtec 866 Brush Head Assembly Drawing 12/08 1 2 41 3 3 5 40 39 38 37 34 35 36 35 10 34 11 12 12 42 13 14 14 33 15 31 16 17 32 30 28 19 29 44 27 21 20 22 9 26 23 24 25 18 43 9 8 4 5 6 7 -50- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 866 Brush Head Assembly Parts List 1/10 Ref# 1 2 3 4 5 6 7 8 NI 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 EN Part No. 56109717 E04016 88647A 9097197000 88617A 980648 88618A 44809B 40826A 80199A 57994A 61925A 980638 962244 964002 55721A 722030 30661A 30412A 59856A 88623A 782002 61658A 34400B 962714 38035A 88627A 38014A 34705A 85610A 80183A 69186A 30662A 55451A 920248 980645 59950A 80198A 61926A 88612A 88619A 80223A 71017A 53571A 50248A Description Tube Jack Motor Spring Bushing, Flanged Lever, Bushing Head Lift Screw, M10 x M12 x 16MM SBSH Washer, 17/32 x 1 1/16 Plain Nut, M12 Nylon Insert Motor, Brush Carbon Brushes, Motor (set) Nut, M6-1.



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00 Nylock SS Screw, M6-1 x 20 Plate, 26" Brush Wldmt Washer, 3/8 Lock Screw, 3/8-16 x .75 Hex Screw, M4-.7 x 16MM PH Latch Clamp, Hose Brush Housing L.H. Hose, Solution Washer, Rubber Nut, M4-.

7 Nylock Insert Clamp, Manifold Collar, Brush Driver Gimbal, Motor Screw, Gimbal Mount Driver, Pad 13" Gimbal Screw, M6-1 x 40MM PH Splitter, Solution Hose, Solution 6.00" Lg. Screw, 3/8-16 x 2.5" PH Bolt, M8-1.25 x 20 Hex Tab, Latch Brush Brush Housing R.H. Keeper, Latch Nut, 3/8-16 ESNA, JAM Washer, 3/8" S.A.E. Flat Wheel, Guide 3 1/2" Nut, M8-1.

25 Nylock S.S. Bracket, Head Lift Washer, Lock M10 Screw, M12-1.75 x 160MM Hex Nut, M10-1.5 Nylock Label, Moving Parts Clamp, Hose Clamp, Hose Qty 1 2 8 4 8 1 1 2 1 4 2 1 9 8 4 1 1 1 1 2 4 2 2 2 2 2 1 2 1 3 1 1 1 2 2 1 3 1 8 1 8 2 1 2 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C revised 1/10 FORM NO.

71492A - 51 - ENGLISH EN Nilfisk ALTO Scrubtec 871 Brush Head Assembly Drawing 12/08 41 3 1 2 3 5 40 39 38 37 34 35 36 35 4 5 6 7 8 9 10 34 11 12 12 42 13 14 14 33 15 31 16 17 32 30 28 19 29 44 27 21 20 22 9 26 23 24 25 18 43 -52- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 871 Brush Head Assembly Parts List 1/10 Ref# 1 2 3 4 5 6 7 8 NI 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 EN Part No. 56109717 E04016 88647A 9097197000 88617A 980648 88618A 44809B 40826A 80199A 57994A 61924A 980638 962244 964002 55721A 722030 30574A 30412A 59856A 88623A 782002 61658A 34400B 962714 38036A 88627A 38014A 34705A 85610A 80183A 69186A 30575A 55451A 920248 980645 59950A 80198A 61926A 88612A 88619A 80223A 71017A 53571A 50248A Description Tube Jack Motor Spring Bushing, Flanged Lever, Bushing Head Lift Screw, M10 x M12 x 16MM SBSH Washer, 17/32 x 1 1/16 Plain Nut, M12 Nylon Insert Motor, Brush Carbon Brushes, Motor (set) Nut, M6-1.00 Nylock SS Screw, M6-1 x 20 Plate, 28" Brush Wldmt Washer, 3/8 Lock Screw, 3/8-16 x .75 Hex Screw, M4-.

7 x 16MM PH Latch Clamp, Hose Brush Housing L.H. Hose, Solution Washer, Rubber Nut, M4-.7 Nylock Insert Clamp, Manifold Collar, Brush Driver Gimbal, Motor Screw, Gimbal Mount Driver, Pad 14" Gimbal Screw, M6-1 x 40MM PH Splitter, Solution Hose, Solution 6.00" Lg. Screw, 3/8-16 x 2.5" PH Bolt, M8-1.25 x 20 Hex Tab, Latch Brush Brush Housing R.H. Keeper, Latch Nut, 3/8-16 ESNA, JAM Washer, 3/8" S.

A.E. Flat Wheel, Guide 3 1/2" Nut, M8-1.25 Nylock S.S. Bracket, Head Lift Washer, Lock M10 Screw, M12-1.75 x 160MM Hex Nut, M10-1.5 Nylock Label, Moving Parts Clamp, Hose Clamp, Hose Qty 1 2 8 4 8 1 1 2 1 4 2 1 9 8 4 1 1 1 1 2 4 2 2 2 2 2 1 2 1 3 1 1 1 2 2 1 3 1 8 1 8 2 1 2 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C revised 1/10 FORM NO. 71492A - 53 - ENGLISH EN Nilfisk ALTO Scrubtec 886 Brush Head Assembly Drawing 12/08 1 2 41 3 5 40 39 38 37 42 34 35 36 35 34 33 14 32 31 30 13 29 21 44 28 27 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 43 19 20 21 22 9 26 23 24 25 -54- FORM NO. 71492A Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 886 Brush Head Assembly Drawing 1/10 Ref# 1 2 3 4 5 6 7 8 NI 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 EN Part No.

56109717 E04016 88647A 9097197000 88617A 980648 88618A 41046A 40261A 80199A 57994A 61923A 980652 80183A 964002 55721A 722030 30583A 30412A 59856A 782002 88623A 61658A 34400B 962714 38034A 88627A 38014A 30453A 85610A 69186A 30584A 55451A 980638 920248 980645 59950A 80198A 61926A 88612A 88619A 80223A 71017A 53571A 50248A Description Tube Jack Motor Spring Bushing, Flanged Lever, Bushing Head Lift Screw, M10 x M12 x 16MM SBSH Washer, 17/32 x 1 1/16 Plain Nut, M12 Nylon Insert Motor, Brush Carbon Brushes (set) Nut, M6-1.00 Nylock SS Screw, M6-1 x 20 Plate, 34" Brush Wldmt Washer, 5/16 Lock Bolt, M8-1.25 x 20 Hex Screw, M4-.7 x 16MM PH Latch Clamp, Hose Brush Housing L.H. Hose, Solution Washer, Rubber Clamp, Manifold Nut, M4-.7 Nylock Insert Collar, Brush Driver Gimbal, Motor Screw, Gimbal Mount Driver, Pad 17 Gimbal Screw, M6-1 x 40MM PH Splitter, Solution Hose, Clear Vinyl Screw, 3/8-16 x 2.5" PH Tab, Latch Brush Brush Housing R.H. Keeper, Latch Washer, 3/8 Lock Nut, 3/8-16 ESNA, JAM Washer, 3/8" S.

A.E. Flat Wheel, Guide 3 1/2" Nut, M8-1.25 Nylock S.S. Bracket, Head Lift Washer, Lock M10 Screw, M12-1.75 x 160MM Hex Nut, M10-1.5 Nylock Label, Moving Parts Clamp, Hose Clamp, Hose Qty 1 2 8 4 8 1 1 2 1 4 2 1 8 11 4 1 1 1 1 2 2 4 2 2 2 2 1 2 1 1 1 1 1 2 2 1 3 1 8 1 8 2 1 2 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C revised 1/10 FORM NO. 71492A - 55 - ENGLISH EN Nilfisk ALTO Scrubtec BOOST 8 Brush Head Assembly Drawing 11329A 3/10 -56- FORM NO. 71492A revised 3/10 Nilfisk ALTO Operator's Manual (EN) - SCRUBTEC 866, 871, 866, Boost 8 and 871C ENGLISH Nilfisk ALTO Scrubtec 866, 871, 886, BOOST 8, and 871C Brush Head Assembly Drawing 11329A 9/10 Ref# Part No.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20# 21 22 23 24# \* 25 26 27 28# 29 E04016 170860 722030 782002 925589 56001881 962139 88618A 980638 980646 980648 980657 997001 56109717 10309A 30048A 30206A 56380192 30663A 56380210 30670A 30671A 30680A 56380247 11055A 50248A 50736A 56380235 56380173 61425A EN Description Qty Ref# Part No. 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 61724A 61729B 61733B 61753B 61775A 61782A 61828S 61935A 61936A 61938A 80054A 80103A 80162A 80252A 80296A 80298A 80317A 81217A 88619A 56003825 84237A 85301A 85395A 87607A 88612A 56380241 71075A 71017A Description Retainer, Eccentric Plate-Upper 28 Bracket, Lift Eccentric Retainer, Bearing Sleeve, Guide Wheel Stud Stabilizer\_Short Arm, Lift, Right Arm, Lift, Left Guard, Front Screw, M10-1.5 X40mm Bolt, 3/8-24 X 1.0 Hex Nut, M10 Hex Screw, 1/4-20 X 1 HH S.S. Screw #10-24 X 7/16 Type 23 Screw, 1/4-20 X 2.00 Hex Cap Washer Bowed .455 Id X .740 O.D. Nut, 1/4-20 Hex Esna Scr, M12-1.75 X 160mm Hex Scr-Button Soc Ss NOTE 1 TSBCL2010-12 Screw, 10-32 X .50 P.H. Screw, 1/4-20 X 1 1/4 C. R.P.H. Screw, 1/4-20 X 1/2" P.H.

Washer, Nylon 1.25 X .52 X .06 Flat Washer, Lock M10 Boost-Label Label, Brush Plate 28 Label, Moving Parts Qty 1 1 2 1 1 4 2 1 1 1 2 2 4 1 5 2 4 13 1 4 3 4 3 4 2 1 1 2 Spring 2 Washer, Flat 5/16 2 Clamp, Hose 1 Clamp, Manifold 3 Pin, Roll 1 4 Scr, Flt Soc 1/4-20 NOTE 1 TSBCL2010-12 Screw, 1/4-20x.625 Hex Cap 4 Nut, M12 Nylon Insert 1 Washer, 3/8 Lock 2 Washer, 1/4" Flat 4 Washer 17/32 X 1 1/16 Plain 1 Washer, Lock 1/4 1 Pad, Red, 28" 1 Tube Jack Motor 1 Tube Drip 28" 1 Guide, Wheel 4 Bumper 1 1 Shield Boost Bearing NOTE 1 TSBCL2010-12 Plate, Driver 1 Kit, Flex Plate 28" NOTE 1 TSBCL2010-12 1 Spacer, Nylon 2 Spacer, Nylon 2 Hose, Solution (Flex) 1 Motor, 24vdc 1 Carbon Brushes, Motor (set) 1 Clamp, Hose 1 Bearing 1 Isolator Kit Boost 28",32" NOTE 1 TSBCL2010-12 1 Bushing-Flex Plate NOTE 1 TSBCL2010-12 4 Retainer, Bumper 1 # = Revised or new since last update \* = Optional, Not Included NOTE 1: Customers ordering parts for machines built before April 2010 need to order 28" Flex Plate Kit 56380210 to replace any or all of these Items for repair.



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