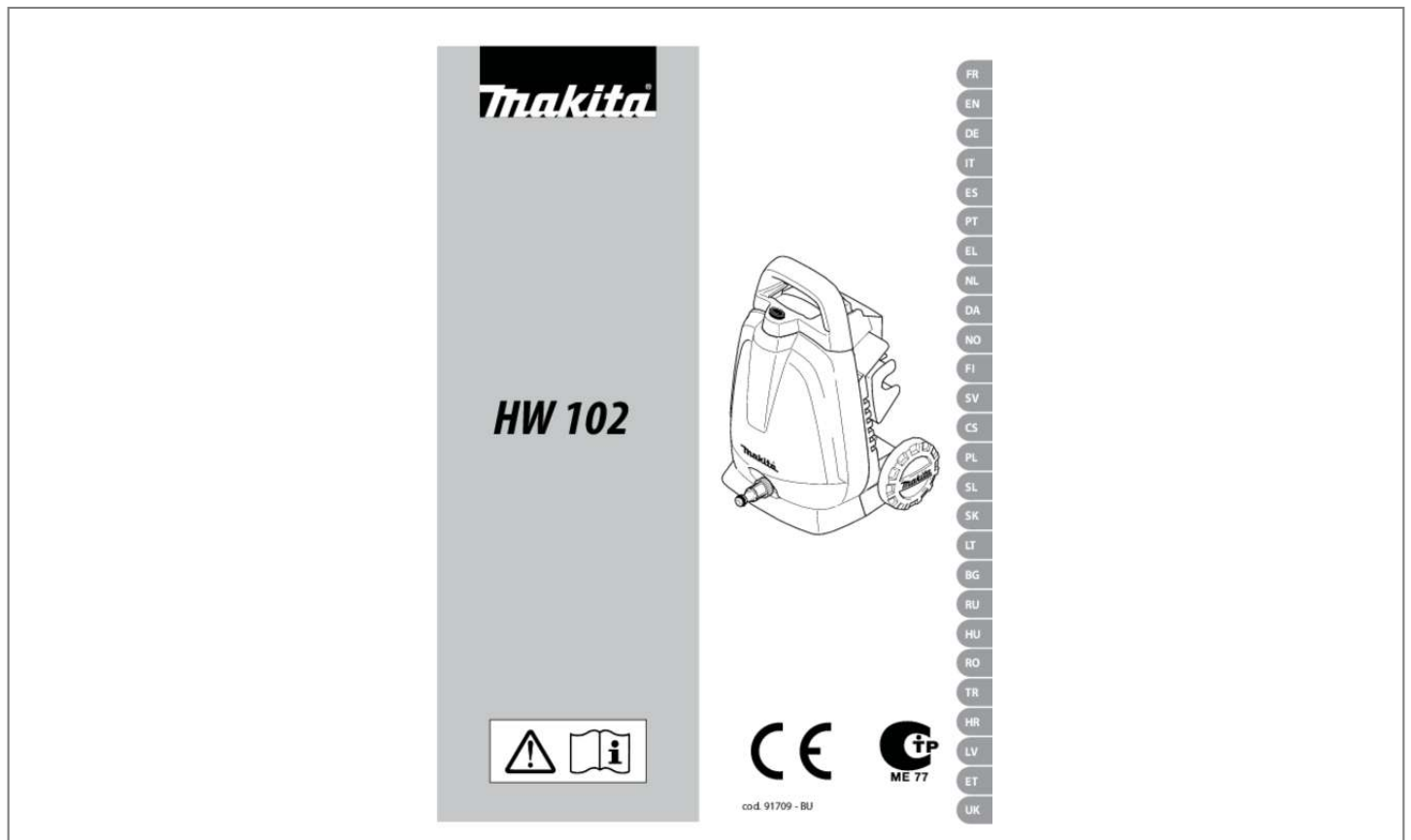




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You can read the recommendations in the user guide, the technical guide or the installation guide for MAKITA HW102. You'll find the answers to all your questions on the MAKITA HW102 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MAKITA HW102
User guide MAKITA HW102
Operating instructions MAKITA HW102
Instructions for use MAKITA HW102
Instruction manual MAKITA HW102



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Manual abstract:

Models supplied without plug must be installed by qualified staff. Use only authorized electrical extension leads with suitable conductor gauge. The appliance you have purchased is a technologically advanced product designed by one of the leading European manufacturers of high pressure pumps.) will provide additional protection for the operator (30 mA). We congratulate you on your choice and wish you successful operation. 1 SAFETY "MUST NOTS" DO NOT use the appliance with inflammable or toxic liquids, or any products which are not compatible with the correct operation of the appliance. EXPLOSION OR POISONING HAZARD DO NOT direct the water jet towards people or animals. INJURY HAZARD equipment. ELECTRIC SHOCK HAZARD DO NOT direct the water jet towards the unit itself, electrical parts or towards other electrical 2. 2.

3 High pressure may cause parts to rebound: wear all the protective clothing and equipment needed to ensure the operator's safety. 6 Before doing work on the appliance, REMOVE the plug. CONTAMINATION HAZARD Maintenance and/or repair of electrical components MUST be carried out by qualified staff. SHORT CIRCUIT HAZARD DO NOT allow children or incompetent persons to use the appliance. INJURY HAZARD DO NOT touch the plug and/or socket with wet hands.

ELECTRIC SHOCK HAZARD DO NOT use the appliance if the electrical cable is damaged. ELECTRIC SHOCK AND SHORT CIRCUIT HAZARD DO NOT use the appliance if the high pressure hose is damaged. EXPLOSION HAZARD DO NOT jam the trigger in the operating position. 10 Check that the data plates are affixed to the appliance, if not, inform your dealer. Units without plates must NOT be used as they are unidentifiable and potentially dangerous. ACCIDENT HAZARD DO NOT tamper with or adjust the setting of the safety valve or the safety devices. EXPLOSION HAZARD DO NOT alter the original diameter of the spray head nozzle. HAZARDOUS ALTERATION OF OPERATING PERFORMANCE DO NOT leave the appliance unattended. 16 DO NOT move the appliance by pulling on the high pressure hose. Please read it carefully before installing/ using the unit. B1 B2 B3 B4 B5 B6 Adjustable spray nozzle Lance Gun with safety catch Power supply cable with plug High pressure hose Detergent tank EN 3. 1 Accessories C1 C2 C3 C4 C5 Nozzle cleaning tool Rotating nozzle kit Handle Brush (on models with this feature) Hose reel (on models with this feature) 3. 3 Disposing of packaging The packaging materials are not environmental pollutants but must still be recycled or disposed of in compliance with the relevant legislation in the country of use. caution - Danger! Do not tamper with or adjust the safety valve setting. - Safety valve and/or pressure limiting valve.

The safety valve is also a pressure limiting valve. When the gun trigger is released, the valve opens and the water recirculates through the pump inlet. 4 Safety signs Comply with the instructions provided by the safety signs fitted to the appliance. Check that they are present and legible; otherwise, fit replacements in the original positions. E1 sign – Indicates that the appliance must not be disposed of as municipal waste; it may be handed in to the dealer on purchase of a new appliance. The appliance's electrical and electronic parts must not be reused for improper uses since they contain substances which constitute health hazards. 5. Intake water temperature: see data plate on the appliance. The appliance is compliant with the EN 60335-2-79/A1 standard. caution - Danger! 2).

Only clean or filtered water should be used for intake. Place the appliance as close to the water supply system as possible.

All modifications to the appliance are prohibited. 14 6. 14 6.

Fill the tank with highly degradable detergent. 4 Adjusting the detergent (on models with this feature) Detergent flow is adjusted using the regulator (F). 7. 7 Recommended cleaning procedure Dissolve dirt by applying the detergent mixed with water to the surface while still dry. When dealing with vertical surfaces work from the bottom upwards.

Leave the detergent to act for 1-2 minutes but do not allow the surface to dry. Starting from the bottom, use the high pressure jet at a minimum distance of 30 cm. Do not allow the rinse water to run onto unwashed surfaces. In some cases, scrubbing with brushes is needed to remove dirt. The pressure is shown on the pressure gauge (where fitted). Set the starter device switch on (OFF/0) to shut down the appliance. During operation the appliance must be positioned as shown in fig. Release the safety catch (D). caution - Danger! 3 Cleaning the nozzle 1) Disconnect the lance from the nozzle.

2) Remove any dirt deposits from the nozzle hole using the tool (C1). caution - Danger! Before starting up the appliance check that the water supply hose is connected properly; use of the appliance without water will damage it; do not cover the ventilation grilles when the appliance is in use. TSS models - In TSS models with automatic delivery flow cut-off system: - when the gun trigger is released the dynamic pressure automatically cuts out the motor (see fig. 4); - when the gun trigger is depressed the automatic drop in pressure starts the motor and the pressure is restored after a very slight delay; - if the TSS is to function correctly all gun releasing and depressing operations must be performed at intervals of less than 4-5 seconds. To prevent damage to the appliance, do not allow it to operate dry. Cleaning the filter Inspect the intake filter (L) and detergent filter (if fitted) before each use, and clean in accordance with the instructions if necessary. caution - Danger! To unjam the motor, turn the drive shaft with a tool (M). 8. 4 End-of-season storage Treat the appliance with non-corrosive, non-toxic antifreeze before storing it away for winter. Put the appliance in a dry place, protected from frost.

7. 3 Stopping the appliance 1) Set the starter device switch on (OFF/0). 2) Depress the gun trigger and discharge the residual pressure inside the hoses. 3) Engage the gun safety catch (D). 7.

4 Restarting 1) Release the safety catch (D). 2) Depress the gun trigger and discharge the residual air inside the hoses. 5 Storage Switch the appliance off (OFF/0). Remove the plug from the socket. Turn off the water supply tap.

To wash out the tank, use clean water instead of the detergent. 6) Engage the gun safety catch (D). 1) 2) 3) 4) 7. 1) 2) 3) 4) 7. Switch the appliance back on again. turn the adjustable nozzle (E) (+) (fig. 5) Clean filter (L) (fig. 2) Check characteristics of extension cable Contact your nearest Authorized Service Centre Contact your nearest Authorized Service Centre Check that the plug is firmly in the socket and that the mains voltage supply is present (*) Contact your nearest Authorized Service Centre Using the tool (M) unjam the motor from the hole at the rear of the appliance (in models with this feature) (fig. 5) Have the seals replaced at your nearest Authorized Service Centre Contact an Authorized Service Centre Reduce temperature (see technical data Contact your nearest Authorized Service Centre Contact your nearest Authorized Service Centre Clean nozzle (fig.



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5) Set nozzle on " " setting (fig.

5) Dilute with water Fit original hose Flush with clean water and eliminate any restrictions. 5) Set nozzle on " " setting (fig. If the problem recurs more than once, contact your nearest Authorized Service Centre. Technical Data (EN) Output Pressure Maximum pressure Power T° input Maximum input pressure Repulsive force of the gun to the maximum pressure Motor Insulation Motor Protection Voltage Sound level $K = 3 \text{ dB(A)}$: LPA (EN 60704-1) LWA (EN 60704-1) Unit vibrations $K = 1,5 \text{ M/s}^2$: Weight Unit L/mi.



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