

WEU

Robert Bosch GmbH
Power Tools Division
70745 Leinfelden-Echterdingen
Germany

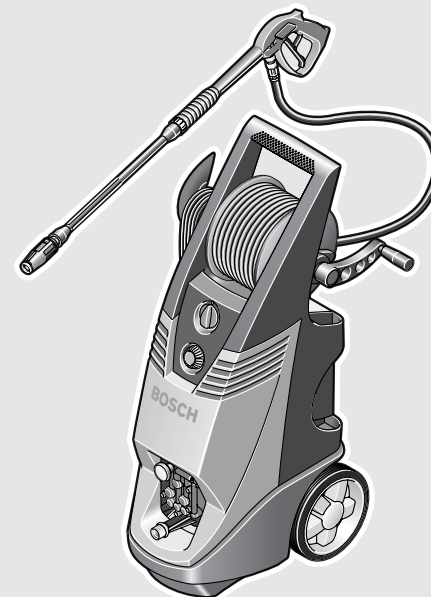
www.bosch-garden.com

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WEU



Aquatak

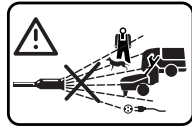
150 | 150 X | 160 X



de Originalbetriebsanleitung
en Original instructions
fr Notice originale
es Manual original
pt Manual original
it Istruzioni originali
nl Oorspronkelijke
gebruiksaanwijzing
da Original brugsanvisning
sv Bruksanvisning i original
no Original driftsinstruks
fi Alkuperäiset ohjeet

el Πρωτότυπο οδηγιών χρήσης
tr Orijinal işletme talimatı





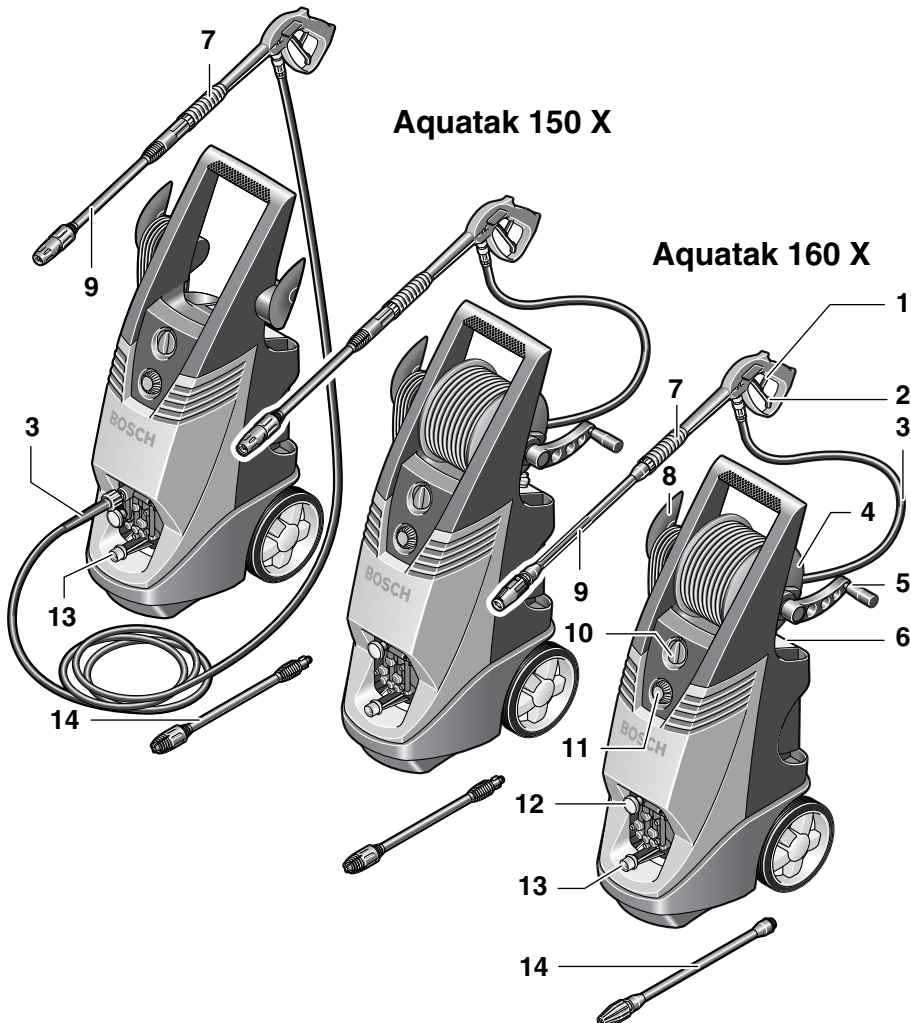
Made in Italy, Robert Bosch GmbH, D-70745, Leinfelden 579	
Type	0XXXXXXXXX XXXXXXXXXX
work press	XXX bar
max. press	XXX bar
230V	50Hz
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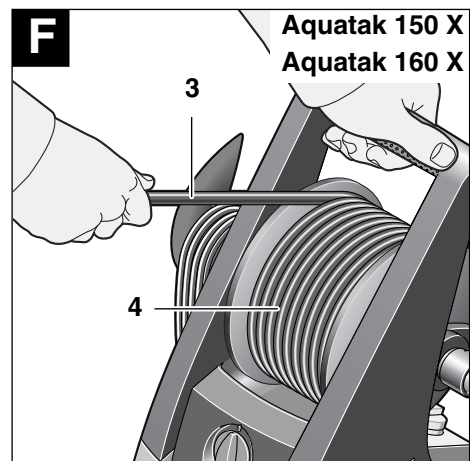
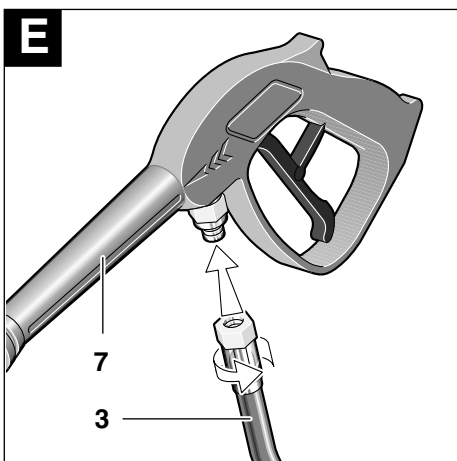
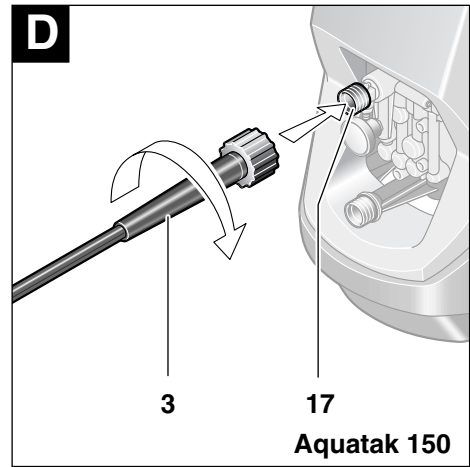
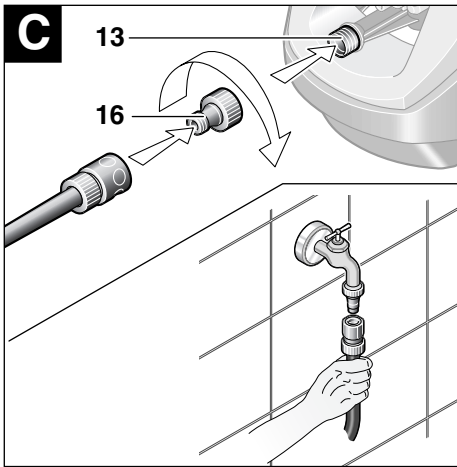
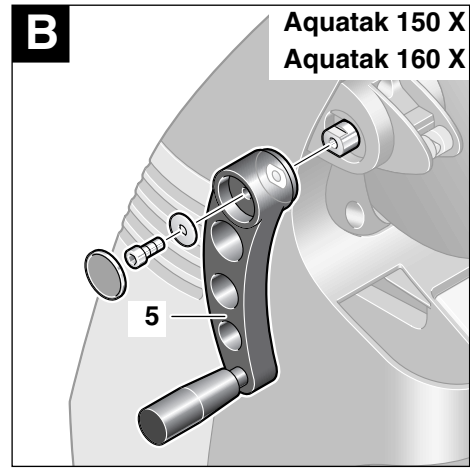
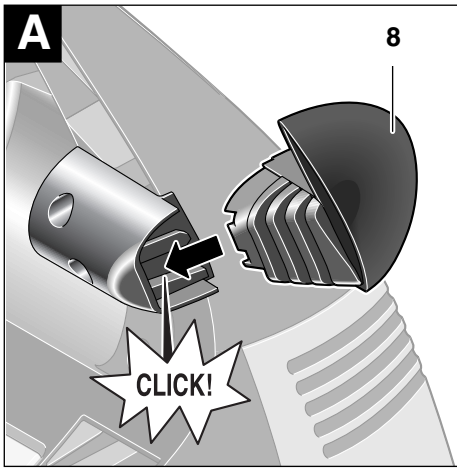
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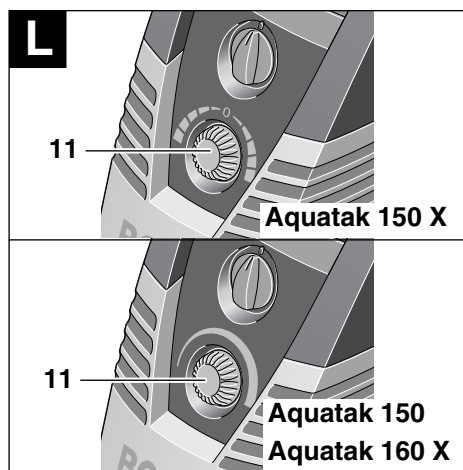
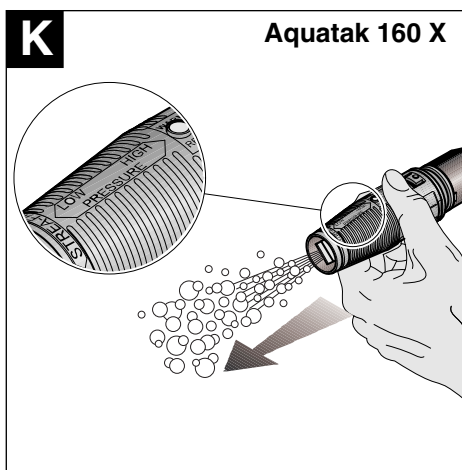
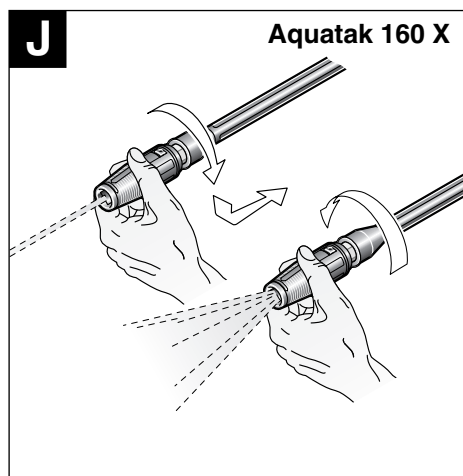
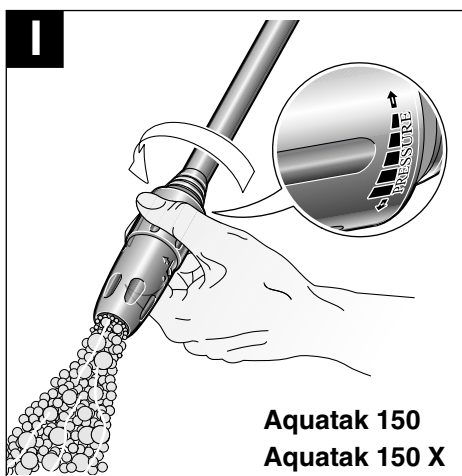
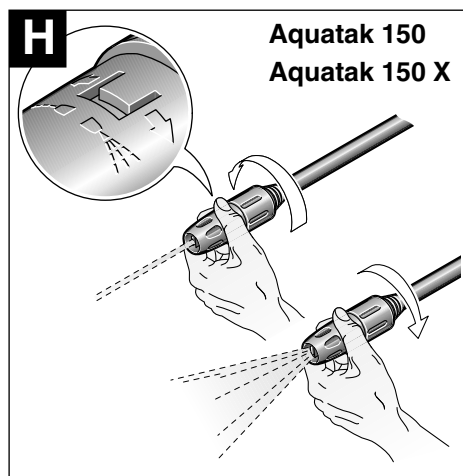
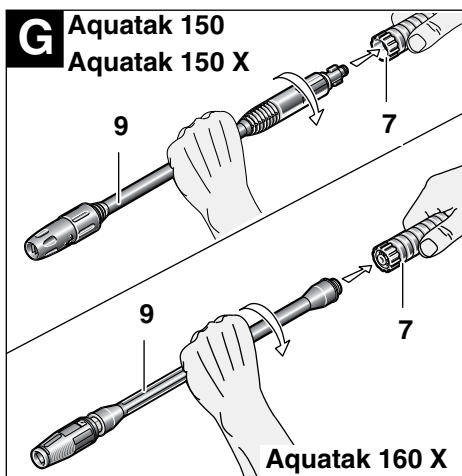
Aquatak 150

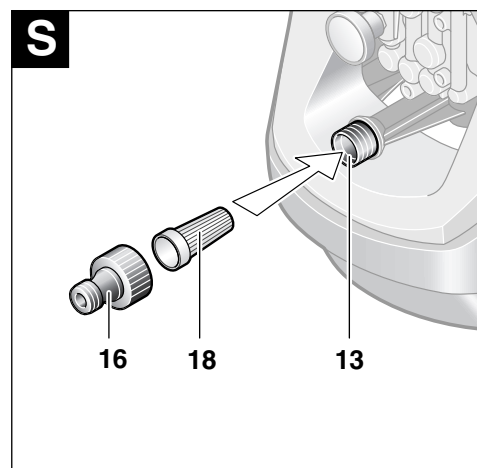
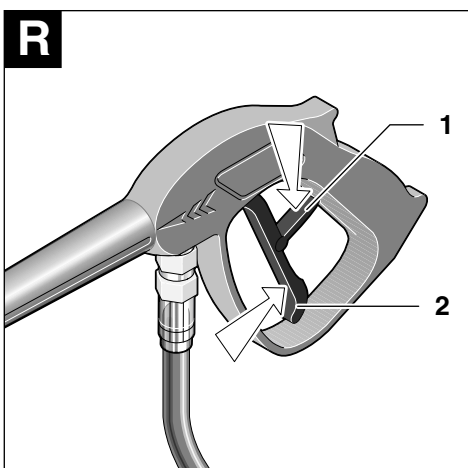
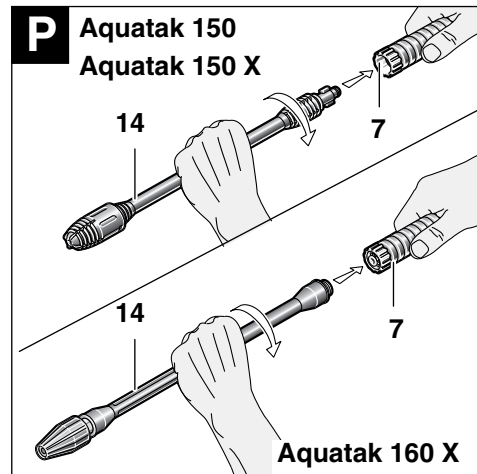
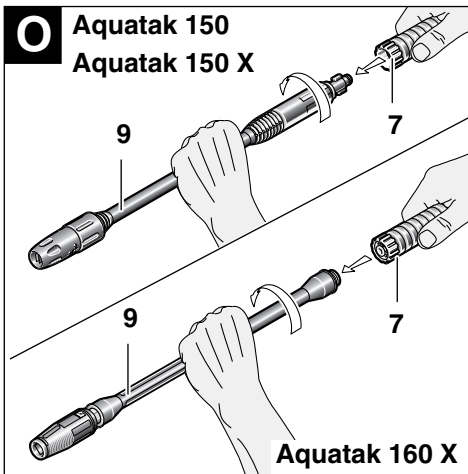
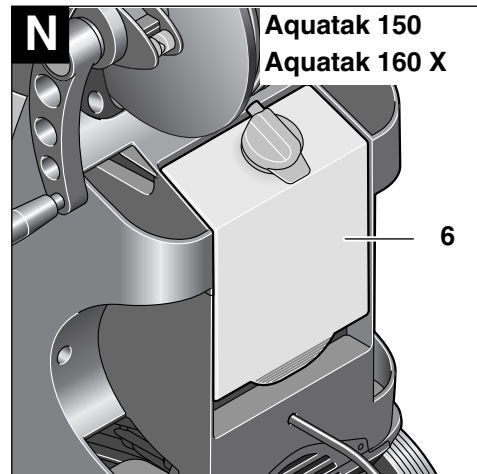
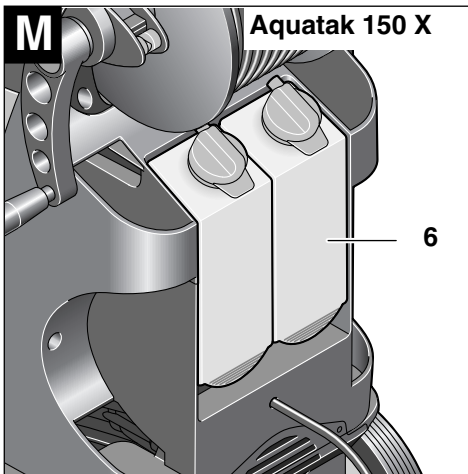
Aquatak 150 X

Aquatak 160 X











Safety Notes



Before start-up please read these instructions!



Before using the machine please read the operating instructions for your unit and comply in particular with these safety instructions. Please keep the instructions safe for later use.

The warning and information signs attached to the unit provide important information for safe operation.

Apart from the information in the operating instructions comply with the general safety regulations and regulations for the prevention of accidents.



Never direct the water jet at people, animals, the unit or electric components.

Warning: High pressure jets can be dangerous if subject to misuse.

Power Supply

- The voltage indicated on the rating plate must correspond to the voltage of the power source.
- Class 1 units may only be connected to properly earthed power sources.
- We recommend that this equipment is only connected into a socket which is protected by a circuit-breaker that would be actuated by a 30 mA residual current.
- If an extension cord is used, the plug and socket must be of a water tight construction.
Warning: Inadequate extension cords can be dangerous.
- Never touch the mains plug with wet hands.
- Do not use appliance if the supply cable or other important parts like safety devices, high pressure hose or trigger gun, are damaged.
- Do not run over, crush or pull the power supply cable or extension lead, otherwise it may be damaged. Protect the cable from heat, oil and sharp edges.
- The extension lead must have a cross section in accordance with the operating instructions and be protected against splashed water. The connection must not be in water.
- **If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.**

Water connection

- Comply with the regulations of your water supply company.
- All connecting hoses must have properly sealed joints.
- The high-pressure hose must not be damaged (danger of bursting). A damaged high-pressure hose must be replaced immediately. Only use hoses and connections recommended by the manufacturer.
- Flexible hose, accessories and fittings are important for appliance safety. Use only flexible hose, accessories and fittings recommended by the manufacturer.

Application

- Before use, check that the unit and operating equipment are in perfect condition and are safe to operate. Do not use the unit if it is not in perfect condition.

- Never draw in solvent-containing liquids, undiluted acids or solvents! This includes petrol, paint thinners heating oil. The sprayed vapour is highly flammable, explosive and toxic; also acetone, undiluted acids and solvents as these corrode the materials used on the unit.
- The appropriate safety regulations must be observed when using the unit in dangerous area (e.g. petrol stations). It is forbidden to operate the unit in potentially explosive locations.
- The unit must be placed on solid base.
- Only use detergents recommended by the manufacturer and comply with the application, disposal and warning instructions of the detergent manufacturers.
- All current-conducting components in the working area must be protected against splashed water.
- The gun trigger must not be jammed in the "ON" position during operation.
- If necessary wear suitable protective clothing to protect against splashing from some parts.
- Vehicle tyres/tyre valves may only be cleaned from a minimum distance of 30 cm, otherwise the vehicle tyre/tyre valve could be damaged by the high-pressure jet. The first indication of this is a discoloration of the tyre. Damaged vehicle tyres/tyre valves can be deadly dangerous.
- Materials containing asbestos and other materials which contain substances which are hazardous to your health must not be sprayed.
- Only use detergents which have been approved by the manufacturer of the unit.
- Detergents must not be used undiluted. The products are safe to use as they contain no acids, alkalis or substances which are detrimental to the environment. We recommend that the detergents are kept out of the reach of children. If detergent comes into contact with the eyes wash immediately with plenty of water and if swallowed contact a doctor immediately.

Operation

- The operator must use the unit in accordance with the regulations. He/she must take local conditions into account and be aware of other people, especially children, when operating the unit.
- Do not use the appliance within the range of persons, unless they wear protective clothing.
- Do not direct the jet against yourself or others in order to clean clothes or footwear.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- The unit may only be used by authorised persons who have received training or have demonstrated their ability to operate the unit. The unit must not be operated by children or juveniles (danger of accidents due to incorrect use of the unit).
- The unit must never be left unsupervised while the motor is running.
- The water jet from the high-pressure nozzle produces a recoil on the gun. You should therefore hold the gun and spray lance firmly.

Transport

- Switch off the motor and secure the unit before transporting.

Maintenance

- Remove the plug from the socket:
 - whenever you leave the machine unattended for any period
 - before checking, cleaning or working on the unit

- Repairs may only be carried out by authorised Bosch Service Centres.

Accessories and spare parts

- Only use accessories and spare parts which have been approved by Bosch. Original accessories and spare parts guarantee that the unit can be operated safely and without any breakdowns.

Technical data

Power washer		Aquatak 150	Aquatak 150 X	Aquatak 160 X
Part number		3 600 H77 A..	3 600 H77 B..	3 600 H77 C..
Rated power	[W]	2 700	2 700	3 000
Supply Temperature max.	[°C]	60	60	60
Supply rate min.	[l/h]	17	17	17
Supply pressure max.	[MPa]	0.15–0.6	0.15–0.6	0.15–0.6
Rated (Working) pressure	[MPa]	14	14	15
Max. Operating pressure	[MPa]	15	15	16
Flow rate	[l/h]	550	550	600
Detergent capacity	[l]	3.0	2 x 1.5	3.0
Weight	[kg]	26	27.5	29.1
Protection class		⊕ / I	⊕ / I	⊕ / I
Serial Number	See serial No 15 (rating plate) on machine.			

Intended Use

The product is intended for cleaning areas and objects outside the house, tools, vehicles and boats. Drainage pipes can be unclogged and rust or paint coatings can be removed, if the appropriate accessories such as cleaning agents approved by Bosch are used.

This product should not be used for professional use.

Intended Use is related to operation within 0 °C and 40 °C ambient temperature.

- Power gun/high pressure hose
- Vario-jet-fan power lance
- Roto power lance
- Inlet connector
- Operating instructions
- Storage hooks (Aquatak 150–2x, Aquatak 150 X/160 X–1x)
- Hose reel handle (Aquatak 150 X/160 X)
- Retaining screw (Aquatak 150 X/160 X)

When parts are missing or damaged, please contact your dealer.

Introduction

This manual gives instructions on the correct assembly and safe use of your machine. It is important that you read these instructions carefully.

When fully assembled the machine weighs approximately 26 - 29.1 kg. If necessary, obtain assistance to remove from packaging.

Delivered Items

Carefully remove the machine from its packaging and check that you have all the following items:

- Power washer

Product Features

- 1 Trigger safety lock
- 2 Trigger
- 3 High pressure hose
- 4 Hose drum (Aquatak 150 X/160 X)
- 5 Handle (Aquatak 150 X/160 X)
- 6 Detergent tank
- 7 Power gun
- 8 Storage hooks
- 9 Vario-jet-fan power lance
- 10 Main switch
- 11 Detergent adjustment knob

- 12 Pressure gauge
- 13 Water inlet connection
- 14 Roto power lance
- 15 Serial Number
- 16 Inlet connector
- 17 Connection for high pressure hose (Aquatak 150)
- 18 Filter

Not all of the accessories illustrated or described are included as standard delivery.



For Your Safety

Warning! Switch off, remove plug from mains before adjusting, cleaning or if cable is cut, damaged or entangled.

Electrical Safety

Your machine requires an earth connection. The operating voltage is 230 V AC, 50 Hz (for non-EU countries 220 V, 240 V as applicable). Only use approved extension cables. Contact your Bosch Service Centre for details.

If you want to use an extension cable when operating your high pressure washer, only the following cable dimensions should be used:

- 1.5 mm² – max length 20 m
- 2.5 mm² – max length 50 m

Note: If an extension cable is used it must be earthed and connected through the plug to the earth cable of your supply network in accordance with prescribed safety regulations.

If in doubt contact a qualified electrician or the nearest Bosch Service Centre.

WARNING! Inadequate extension cables can be dangerous. Extension cable, plug and socket must be of watertight construction and intended for outdoor use.

Cable connections should be kept dry and off ground.

It is recommended for increased electrical safety to use a Residual Current Device (RCD) with a tripping current of not more than 30 mA. Always check your RCD every time you use it.

For products **not sold in GB**: WARNING: For safety, it is essential that the mains plug attached to the machine is fitted to the power supply cable. The couplings of connection leads must be protected against splashes and the coupling sockets on the leads must be made of rubber or coated with rubber. Fixing means for the connection leads must be used.

If the supply cord is damaged, it must be replaced by a Bosch Service Centre.

Products sold in **GB** only: Your machine is fitted with an approved 13 A (BS 1363/A) electric plug and is protected by a 13 A fuse (ASTA Approved to BS 1362).

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorized customer service agent.

The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a 13 A socket elsewhere.

Water supply



According to the applicable regulations, the appliance must never be used on the drinking water network without a system separator.

Use a separator as per IEC 61770 Type BA.

Water flowing through a system separator is considered not drinkable.

Assembly

Before use

A Assemble storage hook(s) **8** to handle. Push firmly to ensure hook is secure.

B Fit handle **5** to hose reel using supplied screw. (Aquatak 150 X/160 X)

Water connection

C Screw inlet connector **16** onto machine water inlet connection **13**.

Attach water supply hose (not supplied) to the mains water supply and machine.

Connecting high pressure water supply hose/ nozzle

D / **E** Securely screw high pressure hose **3** onto machine at connection **17** and to the power gun **7**. (Aquatak 150)

E Securely screw the high pressure hose **3** to the power gun **7**. (Aquatak 150 X/160 X)

G Inserting the vario-jet/fan power lance **9** into the power gun **7**. Depress and turn the vario-jet/fan power lance 90° clockwise to lock in place. (Aquatak 150/150 X)

Screw the vario jet-fan power lance **9** into the power gun **7**. (Aquatak 160 X)

only Aquatak 150 X/160 X

F Unwind the pressure hose **3** off the hose drum **4**. Never use the pressure washer with the high pressure hose **3** on the hose drum **4**.

Adjustments and using different nozzles

Vario-jet-fan power lance

Aquatak 150/150 X

H Twist the front ring to adjust from a pencil to a fan jet and vice versa.

I To apply the detergent twist the rear ring as shown from high pressure mode to low pressure mode.

To adjust the spray pattern twist the front ring.

Also refer to Advice on using pressure washer regarding the detergent suction rate.

Aquatak 160 X

J Twist the nozzle sleeve to adjust from a pencil to a fan jet and vice versa.

K To apply the detergent move the nozzle from high pressure mode to low pressure mode by pulling the nozzle forward.

To adjust the spray pattern twist the nozzle.

Also refer to Advice on using pressure washer regarding the detergent suction rate.

Roto power lance

O Turn the vario-jet/fan power lance **9** 90° anti-clockwise. Extract the vario-jet/fan power lance. (Aquatak 150/150 X)

Unscrew the vario jet-fan power lance **9** from the power gun **7**. (Aquatak 160 X)

P Insert the roto-power lance **14** into the power gun **7**. Depress and turn the roto-power lance 90° clockwise to lock in place. (Aquatak 150/150 X)

Screw the roto-power lance **14** into the power gun **7**. (Aquatak 160 X)

Starting and Stopping

Starting

Connect the product to the mains supply ensuring that the mains switch is in the (Ⓢ) position.

Open water tap.

R Press the safety lock **1** to release the trigger **2**. Fully press the trigger **2** until there is a constant flow of water to clear the air from the machine and water supply hose. Release trigger **2**. Press the trigger safety lock **1**.

Turn on main switch **10**.

Point the power gun **7** downwards. Press the trigger safety lock to release the trigger **2**. Fully press the trigger **2**.

Stopping

Release trigger **2**. Press the trigger safety lock. The power gun is now locked and cannot be operated accidentally.

Turn off the main switch **10**.

Close water tap. Unplug the machine from the electric supply.

Press the trigger safety lock **1** to release the trigger **2**. Fully press the trigger **2** until there is no more water pressure in the machine. Release trigger **2**. Press the trigger safety lock **1**.

Disconnect water supply hose from machine and water supply.

Advice using pressure washer

General

Ensure that the machine is on level ground.



Do not overreach with the high pressure hose or move the pressure washer by pulling the hose, this could cause the machine to become unstable and fall over.

Do not kink or drive a motor vehicle over the high pressure hose. Do not expose the high pressure hose to sharp edges or corners.

Never use the roto nozzle to clean motor vehicles.

Operating with Detergents

Only use Bosch approved detergents. Unsuitable detergents may damage the unit and the object being cleaned.

M / N Fill the detergent tank **6** with detergent, dilute as recommended. The tank(s) can be removed to aid filling and emptying.

I / K To spray detergent move vario-jet-fan power lance to low pressure mode.

We recommend that you use detergent sparingly for the sake of the environment. Observe the recommended dilution on the detergent label.

By offering you an individualised range of cleaning and preserving agents, Bosch guarantees trouble-free operation of the unit.

L only Aquatak 150/160 X

The product is fitted with one detergent tank. The detergent adjustment knob **11** is used to increase/decrease detergent flow.

L only Aquatak 150 X

The product is fitted with two detergent tanks. The detergent adjustment knob **11** is used to switch the suction between detergent tanks and increase/decrease detergent flow.

Recommended cleaning method

Step 1: Loosening dirt

Spray on detergent sparingly and allow to react for a short time.

Step 2: Removing dirt

Spray off the loosened dirt with the high-pressure spray.

Note: When cleaning a vertical surface spray off dirt/detergent from the bottom and work in an upwards direction. **Rinse from the top and work downwards.**

Chemicals dangerous to the environment must not be allowed to enter the ground, ground water or ponds, streams, etc.

For the use of cleaning agents, observe the instructions on the package and the prescribed concentration exactly.

For the cleaning of motor vehicles the local regulations should be observed: Do not allow oil sprayed off to enter into the ground water. Recycle raw materials instead of waste disposal.

Maintenance



Stop, remove plug from the power supply and disconnect from water supply.

Note: To ensure long and reliable service, carry out the following maintenance regularly.

Regularly check for obvious defects such as loose fixings, and worn or damaged components.

Check that covers and guards are undamaged and correctly fitted. Carry out necessary maintenance or repairs before using.

If the pressure washer should happen to fail despite the care taken in manufacture and testing, repair should be carried out by an authorised service agent for Bosch garden products.

For all correspondence and spare parts orders, always include the 10-digit part number (TYP) from the nameplate of the machine!

Cleaning/inspecting the filter

S Expose the filter **18** in the machine water inlet connection **13** by removing the inlet connector **16**.

The filter **18** can be easily removed with long nose pliers. Rinse and replace. If damaged replace.

Never use the pressure washer without the filter **18** or a damaged filter.

Using the pressure washer without/damaged filter 18 will invalidate the warranty.

Transport

To move the machine use the top handle and roll the machine on the wheels.

To transport the unit up or down steps or over obstacles, it must be lifted by the top handle.

If the unit is to be stored or transported horizontally the detergent tank should be drained first.

After use storage

Clean the exterior of the machine thoroughly using a soft brush or cloth. Do not use water, solvents or polishes. Remove all debris, especially from the ventilation slots.

Frost will damage a pressure washer that has not been completely emptied of water. The machine should be stored in a frost free room.

Do not place other objects on top of the machine.

Ensure cables are not trapped when storing. **Do not kink high pressure hose.**

Fault Finding

The following table gives checks and actions that you can perform if your machine does not operate correctly. If these do not identify/remedy the problem, contact your service agent.

Warning: Switch off and remove plug from mains before investigating fault.

Symptom	Possible Cause	Remedy
Motor refuses to start	Plug not connected Mains socket faulty Fuse faulty/blown Extension cable damaged Motor protector has activated Frozen	Connect plug Use another socket Replace fuse Try without extension cable Allow to cool for 5 minutes Wait for pump/water supply hose/accessory to thaw
Motor stops	Fuse faulty/blown Wrong mains voltage Motor protector has activated	Replace fuse Check that mains voltage corresponds to specifications on the model tag Allow to cool for 5 minutes
Fuses blow	Fuses incorrectly rated	Change to a mains supply higher than the pressure washer amp consumption
Excessive working pressure	Nozzle partly blocked	Clean nozzle
Pressure pulsating	Air in the inlet water supply hose/pump Inadequate water supply Water filter blocked Water supply hoses squeezed High pressure hose too long	Allow pressure washer to run with open spray handle and nozzle at low pressure until regular working pressure is obtained Check that the water supply corresponds to specifications. The minimum specification for the water supply hose is 1/2" or 13 mm diameter Clean the water filter Straighten out kinked water supply hoses Dismount high pressure extension hose. Retry (extension hose max. 10 m)
Pressure too low, but steady Note: Several types of accessory will normally deliver a lower pressure	Nozzle worn Start/stop valve worn	Change the nozzle Activate trigger five times in quick succession
Motor starts up but no working pressure	No water supply Water filter clogged up Nozzle clogged up	Connect water supply Clean the water filter Clean nozzle
The pressure washer starts irregularly by itself	Pump/power gun leaky	Contact your Bosch Service Centre
Water leaks from machine	Leaking pump	6 drops per minute are permissible. In case of more serious leakage, you should contact your Bosch Service Centre.

Disposal

Power tools, accessories and packaging should be sorted for environmental-friendly recycling.

Do not dispose of power tools into household waste!

Only for EC countries:



According to the European Directive 2002/96/EC on waste electrical and electronic equipment and its incorporation into national law, products that are no longer suitable for use must be separately collected and sent for recovery in an environmentally-friendly manner.

After-Sales Service and Customer Assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:

www.bosch-garden.com

Our customer consultants answer your questions concerning best buy, application and adjustment of products and accessories.

Great Britain

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CE Declaration of Conformity

Measured sound values determined according to EN 60335.

Typically the A-weighted noise level of the product is: sound pressure level 80 dB(A) (Aquatak 150/150 X)/80 dB(A) (Aquatak 160 X); sound power level 90 dB(A) (Aquatak 150/150 X)/91 dB(A) (Aquatak 160 X). Uncertainty $K = 3$ dB (Aquatak 150/150 X)/3 dB (Aquatak 160 X).

Vibration total values a_h (triax vector sum) and uncertainty K determined according to EN 60335:
 $a_h = 4.0 \text{ m/s}^2$, $K = 1.0 \text{ m/s}^2$.

We declare under our sole responsibility that the product described under „Technical data“ is in conformity with the following standards or standardization documents: EN 60335 according to the provisions of the directives 2011/65/EU, 2004/108/EC, 2006/42/EC, 2000/14/EC.

2000/14/EC: Guaranteed sound power level 93 dB(A) (Aquatak 150/150 X)/94 dB(A) (Aquatak 160 X).
 Conformity assessment procedure according to Annex V.

Equipment category: 27

Technical file (2006/42/EC, 2000/14/EC) at: Bosch Lawn and Garden Ltd., PT-LG/ENS, Stowmarket, Suffolk IP14 1EY, England

Dr. Egbert Schneider
 Senior Vice President
 Engineering

Dr. Eckerhard Strötgen
 Engineering Director
 PT/ESI

ppa. Schneider *i.v. Strötgen*

Robert Bosch GmbH, Power Tools Division
 D-70745 Leinfelden-Echterdingen
 02.09.2011

Subject to change without notice