

INSTRUCTION MANUAL

SLAB SAW BTCS350H





Beton Trowel bv

Use this guide along with the parts lists attached to locate and identify components of your saw. When ordering replacement parts, be sure to provide the model number and serial number from the trowel.

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Contact

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Foreword

Quality assurance / machine break in

The machine is the product of extensive engineering development designed to give long life and unmatched performance. The saws are shipped fully assembled, and only require filling with fuel and a brief check of lubricant levels in preparation for operation.

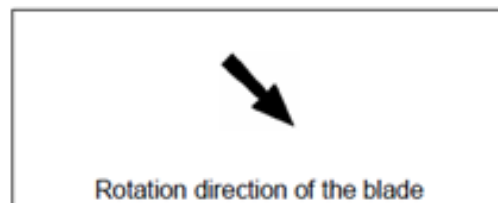
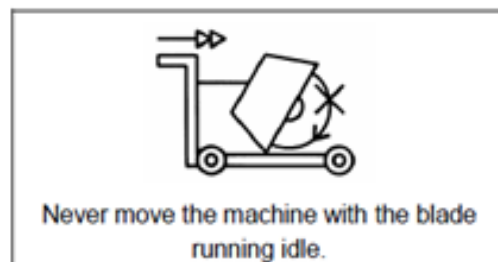
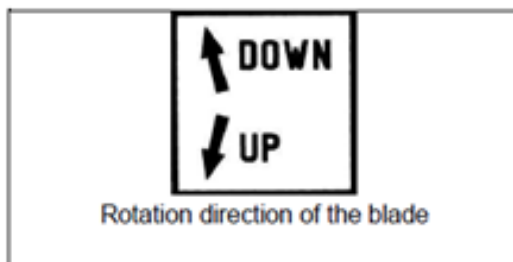
You can help ensure that your saw will perform at top levels by observing a simple routing on first use. Consider that your new saw is like a new car. Just as you would break in a new car to the road or any new machine to the job, you should start gradually and build up to full use. Learn what your machine can do and how it will respond. Refer to the engine manufacturer's manual for run-in times. Full throttle and control may be used after this time period, as allowed by material. This will serve to further break in the machine on your specific application, as well as provide you with additional practice using the machine.

We thank you for the confidence you have placed in us by purchasing a Beton Trowel machine and wish you many years of satisfied use.

1 Basic Safety Instructions

Uses other than the manufacturer's instructions shall be considered as contravening the regulations. The manufacturer shall not be held responsible for any resulting damage. Any risk shall be borne entirely by the user. Observing the operating instructions and compliance with inspection and servicing requirements shall also be considered as included under use in accordance with the regulations.

Important warnings and pieces of advice are indicated on the machine using symbols. The following symbols are used on the machine:



FOR SAFETY OPERATION

Foreword:

It is important to read this manual carefully so that you will fully understand the operational characteristics and performance of the plate compactor. Proper maintenance procedures will insure long life and top performance of the unit.

Safety:

This section outlines basic safety procedures that apply to the operation, maintenance and adjustment of the CIMAR floor cutter. This unit is designed as a powerful, productive machine that should be operated with respect and caution.

Misuse or carelessness can result in serious injury or property damage, or both. Safety precautions must be observed at all times.



This safety alert symbol identifies important safety messages throughout this manual and on the machine.

When you see the symbol, carefully read the message that follows. Yours safety is at stake!

Operator Qualifications:

Before operating this equipment, an individual should read this manual. Whenever possible, he should be shown how to operate the unit by an experienced operator. Inexperience is hazardous in operating any machine or attachment. Trial and error is not the way to become familiar with a piece of equipment. This is expensive, cuts equipment life and can create machine downtime. Inexperience can cause injury or death. The machine should not be left unattended when operating.

General Safety:



WARNING

- ◆ Refrain from working in such cases as below:
- ◆ When not feeling well due to fatigue or disease.
- ◆ When taking medicine.
- ◆ Under the influence of alcohol.



AUTION

- ◆ Read the instruction manual carefully and operate the machine properly to work safely.
- ◆ With respect to engine, read the separate engine manual.
- ◆ Understand the mechanism of the machine sufficiently.
- ◆ Wear protectors (hard hat, safety shoes, ear plugs, etc.) and proper clothing for working safety.
- ◆ Always check the machine for loosened threads or any other abnormality before starting your work.

- ◆ Whenever affixed name plate (such as operating directions and warnings) become difficult to read, replace it with new one.
- ◆ Machine is hazardous for children to tamper with. Pay enough caution for how and where to store it. Particularly in case of the machine equipped with starting motor, remove starting key to store at designated location.
- ◆ Be sure to shutdown engine for servicing. If equipped with starter motor, disconnect battery wiring.
- ◆ Manufacturer does not assume responsibility for any accident arising from modification.
- ◆ Direction of rotation of tool (indicated by an arrow on the guard)
- ◆ Maximum diameter of the new tool and bore diameter of the tool which can be fitted to the machine.

Refueling Safety:



WARNING

- ◆ Before refueling, be sure to shutdown engine and wait for it to cool.
- ◆ Select location where there is no inflammable matter and be careful not to spill fuel. When spilled however, wipe it off thoroughly.
- ◆ Never use fire in the vicinity while refueling. (Definitely no smoking!)
- ◆ Topping up to filler port is dangerous as it tends to spill fuel.

Starting Safety:



AUTION

- ◆ Before starting and operating your machine, check for safety of personnel or obstacle around.
- ◆ Always pay attention to ground so you can work in stable position.
- ◆ Whenever machine fails to work properly or any abnormality is noticed during work, suspend your work immediately.
- ◆ Do not touch engine body or muffler as they are hot in operation.
- ◆ Be sure to stop engine whenever you leave the machine. Also, do not forget to stop the engine when you move the machine as well.
- ◆ Poisonous fumes. Start and operate only in well ventilated area. Breathing exhaust gases can result in sickness or death.
- ◆ Advice to check correct rotation of tool
- ◆ Information about handling method for tightening flanges.
- ◆ Advice that the correct mounting of the guards shall be verified.

Servicing Safety:



AUTION

- ◆ Before lifting, make sure that machine parts (hook and vibration insulator in

- particular) are not damaged and screws are not loosened or lost.
- ◆ Stop the engine before lifting your machine. Contact with moving parts can cause serious injury.
- ◆ Allow machine and engine to cool before performing service or maintenance. Contact with hot components can cause serious burns.
- ◆ Use wire rope which has sufficient strength.
- ◆ Use one point suspension hook and lift straight upward without giving any shock.
- ◆ Be sure not to allow any person or animal to enter underneath the lifted machine.
- ◆ For safety, try not to lift to unnecessary height.

Engine:

See engine operations manual

SHUTDOWN:

EMERGENCY SHUTDOWN

Move throttle lever to "OFF" position and also turn stop switch to "OFF".

NORMAL SHUTDOWN

Move throttle lever quickly from "ON" to "OFF" and run engine for 3 to 5 minutes at low speed. After engine cools, turn stop switch to "OFF" position. Close fuel shutoff valve.

2 General description of the BTCS350

Any modification, which could lead to a change in the original characteristics of the machine, may be done only by Beton Trowel NV who shall confirm that the machine is still in conformity with the safety regulations. Beton Trowel NV keeps the right of making technical or design modification without prior notification.

2.1 Introduction

Application

This cutter is designed for wet cutting of concrete or asphalt utilizing diamond blades. They have been engineered for general, industrial and high production flat cutting applications the reinforced steel box frame design adds strength necessary to reduce vibrations while cutting. Minimizing vibrations enhances the performance of the blade and extends the life of the saw. Heavy-duty front and rear axles, sturdy oversized wheels and industrial undercarriage assembly ensures accurate tracking and years of reliable use. Additionally, the general weight-to-strength ration design of the frame and chassis assembly provides optimum weight distribution to keep the blade running true in the cut. A rugged blade shaft bearing assembly ensures minimal flutter and shaft harmonics providing the most advantageous condition for a diamond blade at operating speeds.

Structure

Console

An ergonomically designed control console allows the operator to easily understand an/or operate the adjustable handlebars, **Raise/Lower Crank Handle**, and **transmission engage/disengage lever** (Self-propelled models only). Additionally, for self-propelled models, the console also provides forward/reverse controls.

Manual Raise/Lower System

The cutter saw use an ACME thread, manual raise/lower assembly easily raises and lowers the blade and can lock into position to ensure a constant depth when cutting.

Water System

All saw provide a water direction system to provide cooling water to the diamond blade. This system consists of: a standard "garden hose" valve that connects to the water source (via hose) to the saw, and **ON/OFF** console water valve.

All of blade guard is designed with two 150 mm water tubes to direct water to the diamond blade.

The water tank capacity is 15 liter.

Under Carriage System

A welded heavy steel gauge under carriage assembly supports the saw in tracking, pivoting and stabilization. A rear axle supports two solid rubber cast hub wheels with roller bearings, grease fittings and locking collars. A front axle supports two solid rubber cast hub wheels with

roller bearing, grease fittings and locking collars. The assembly pivots about two rocker blocks with bushings.

Blade Drive System

A rugged blade shaft assembly has been specifically designed to support the optimum distribution of torque from the engine shaft to the blade shaft, and to ensure minimal vibratory conditions on the tips of the shaft.

Balanced engine & blade shaft pulleys are connected to their respective shafts, 2V-belt connect the engine pulley to the blade shaft pulley. The blade shaft is supported by two self-aligning pillow block bearing that are uniquely positioned on the most outboard portion of the reinforced frame.

The combination of pulley and blade shaft bearing positioning ensures minimal vibration & flutter to the ends of the blade shaft.

Power Transfer

Air-cooled Single cylinder Honda GX270 Engine is amounted as power source. Blade rotation is v-belt driven. This is accomplished by connecting the output shaft of the engine to an upper drive pulley. The lower drive pulley (Blade) is then connected to the upper drive pulley (Engine) by 2 V-belts. As the engine shaft rotates, so does the blade.

2.2 Technical data

Engine	Honda GX270, 4 strokes, 1 cylinder, 9HP (6.5kW)
Fuel	Automotive unleaded gasoline
Oil	Honda 4-Stroke, or equivalent high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirement for service classification SG, SF. (SG, SF designated on the oil
Starter	Manual pull chord
Air filter	Dual type (machine type 99277, 99556, 99557, and 99558) Cyclone type (machine type 99939)
Max. blade diameter	350 mm
Bore	25,4 mm
Max. cutting depth mm	120 mm
Flange diameter	115 mm
Blade shaft speed	3600 min ⁻¹
Water tank	15 l
Machine dimensions (length x width x height)	915x381x990 mm
Weight	69 kg
Max. operating weight	85 kg
Sound pressure level	89 dB (A) following ISO EN 11201
Sound energy level	105 dB (A) following ISO EN 3744

3 Assembly and commissioning

Before beginning the work with the BTCS350H, you have to assemble some parts.

3.1 Tool assembly

Only use professional blades with the BTCS350H.

A blade with a maximum diameter of 350 mm can be fitted. All tools used must be selected with regard to their maximum permitted cutting speed for the machine's maximum permitted rotation speed.

Before mounting a new blade, switch the machine off.

To mount a new blade, follow these steps:

- Turn the wheel until the cutting head is in the raised position.

- Loosen the screw maintaining the blade guard with the 19mm wrench, and turn it open. Loosen the hexagonal nut, which holds the removable outer flange with the 36mm wrench. Remove the outer flange.

- Clean the flanges and blade shaft and inspect for wear.

- Mount the blade on the shaft ensuring that direction of rotation is correct. Wrong direction of rotation blunts the blade quickly.

- Replace outer blade flange.

- Tighten hexagonal nut with spanner supplied for this purpose. Close the blade guard.

The blade bore must correspond exactly to the blade shaft. Cracked or damaged bore is dangerous for the operator and for the machine.

3.2 Water cooling system

Fill the water tank with clean water.

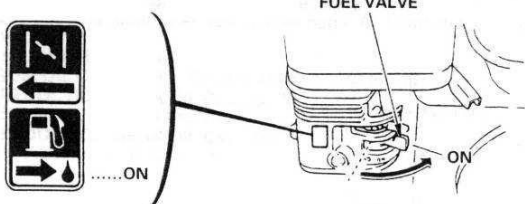
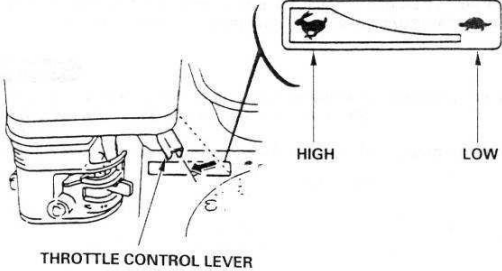
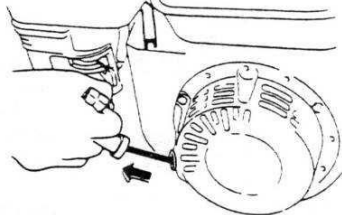
Open water-tap (note that handle on water-tap should be in line with water-flow).

Ensure that water is flowing freely in the circuit and delivered adequately to both sides of the blade, as insufficient water supply may result in premature failure of the diamond blade.

In case of frost, empty the water cooling system

3.3 Starting the machine

Make sure the blade is raised clear up the ground before starting the machine.

	
Turn the fuel valve to the ON position.	Move the choke lever to the CLOSED position. NOTE: do not use the choke if the engine is warm or the air temperature is
	
Move the throttle control lever slightly to the left.	Put the engine switch on ON, and make sure the emergency switch on the board of the machine is in the correct position.
	

Pull the starter grip lightly until you feel resistance, then pull briskly. CAUTION: Do not allow the starter grip to snap back against the engine. Return it	As the engine warms up, gradually move the choke lever to the OPEN position. Position the throttle control lever for the maximum engine speed.
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To stop the engine, move the throttle control lever fully to the right, then turn the engine switch to the OFF position. Turn the fuel valve to the OFF position

4 Transport and Storing

Take the following measures in order to transport and store the BTCS350H securely

4.1 Securing for transport

Before transporting the machine: Remove the blade.
Empty the water tank.
Raise the guide-a-cut in its upright position.
Raise the cutting frame to its highest position using the handwheel.

4.2 Transport procedure

The machine can be moved on a flat surface using its wheels. Use the metal hook located on the board of the machine over the motor to move the machine with a crane.

4.3 Long period of inactivity

If the machine is not going to be used for a long period, please take the following measures: Completely clean the machine.
Loosen the drive belts.
Grease the threaded shaft.
Possibly change the motor oil. Empty the water system.

The storage site must be clean, dry and at a constant temperature

5 Operating the BTCS350H

5.1 Prior to operation

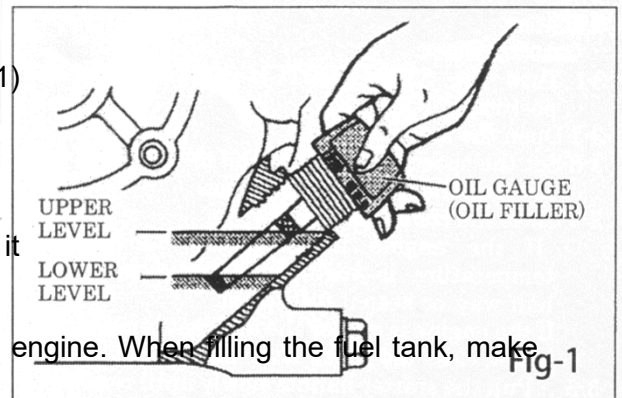
1. Read and fully understand this manual, the safety instructions in particular, and the engine manufacturer's manual supplied with the saw.
2. Select the correct blade for each application.
3. Check blade for wear or damage. Handle all blades with care and always replace a damaged blade.
4. Clean the saw, removing dirt and dust, particularly the engine cooling air inlet, carburetor and air cleaner.
5. Check all bolts and screws for tightness and make sure all bolts and screws are securely tightened. Loose bolts and screws may cause damage to the unit.
6. Check the V-belt for tightness. The normal slack should be approximately 10-15mm (1/2") when the belts are forcibly depressed in the middle position between the two sheaves. If there is excess belt play, there could be a decrease in the impact force or erratic vibration, causing machine damage.
7. Check the engine oil level and if the engine oil level is low, it should be refilled. Use the proper motor oil as suggested in the table below. (Fig-1)

IMPORTANT:

Use the Motor oil SAE

When changing the oil, the old oil can be drained by tipping the unit. The oil will drain easily while it is hot

8. A regular grade gasoline should be used in the engine. When filling the fuel tank, make sure the fuel filter is used.



Season	Temperature	Oil to be used
Summer	25°C or higher	SAE 10W-30
Spring/Fall	25°C ~ 10°C	SAE 10W-30/20
Winter	0°C or lower	SAE 10W-10

5.2 Site of work

Before you start working, please check the following points:

Remove from the site anything, which might hinder the working procedure. Make sure the site is sufficiently well lit.

Make sure you have a continual adequate view of the working area so you can intervene in the working process at any time.

Keep other staff out of the area, so you can work securely.

5.3 Cutting method

5.3.1 Preparing your cut

Before starting the machine,

Draw a line on the floor over the cutting length.

Make sure you have filled the engine tank with fuel, and the water tank with water.

No petrol is supplied with the machine.

The engine is shipped with oil. Check oil level before starting. Top up if required.

Make sure you have mounted the correct blade as recommended by the manufacturer depending on the material to be worked, the working procedure (dry or wet cut) to be carried out, and the efficiency required.

Make sure that the flanges securely hold the diamond blade. Make sure that the blade is not touching the floor before starting. Roll the machine until the blade is over the line.

Lower the guide-a-cut so it touches the line.

5.3.2 Cutting the floor

You can now start the engine. To make your cut,

Turn the depth hand wheel until the blade slightly touches the floor.

Open water valve to control the amount of water required for the type of blade, using

15 to

25l/min for wet and 1-2l/min for dry cutting, dust control. Check for minimum water level regularly.

turn the hand wheel to lower blade into the cut.

Once the required depth of cut is reached, push the machine forward with steady and gentle pressure and follow the line with the pointer. The feed speed must be adjusted depending on the material being cut, and depth of cut.

At the finish of the cut, raise the blade out of the cut by turning the hand wheel, switch off the engine and shut-off the water

5.3.3 Traveling During Cutting (Push)

Push models of cutter saw must be manually moved by the operator during cutting operations. Ensure that the handlebars are secured in place on the console and push against them with a controlled amount of force to prevent losing control of the machine.

1. Start the engine as described in the previous section. Rotate the throttle lever toward full throttle. Ensure water supply system is in operation. Turn valve to start flow of water.
2. Release wheel clamps by pulling levers UP
3. To begin sawing, use the raise/lower crank handle on the console to lower the rotating blade allowing it to cut to the preset depth.
4. When blade has reached full cutting depth, slowly walk behind the saw at a rate that will allow the engine to operate without losing optimum RPM.
5. When the end of the cut has been reached, use the raise/lower crank on the console to raise the blade out of the cut.
6. When cutting is complete, turn the engine OFF using the ENGINE STOP TOGGLE SWITCH on the handlebars, and wait for the blade to stop rotating.
7. Set the engine ON/OFF switch to the OFF position.
8. Place the water valve in the OFF position.
9. Push the wheel clamp levers downward to apply braking pressure to the wheels.

6 Maintenance and service

ATTENTION : to perform maintenance on the machine, always switch it off. Always wear a face mask and safety goggles while performing the maintenance of machine

6.1 Maintenance of the machine

To ensure a long-term quality from the cutting with the BTCS350H, please follow the maintenance plan below:

		After one hour of work	Begin of the day	During the changing of the tool	End of the day	Every week	After a fault	After a damage
Whole machine	Visual control (general aspect, watertightness)							
	Clean							
Flange and blade fixing devices	Clean							
Belts tension	Control							
Water hoses and nozzles	Clean							
Depth screw	Grease							
Engine housing	Clean							
Reachable nuts and screws	Tighten up							

Adjustment and replacement of the belt

After one hour of work, the belts heat and stretch. Therefore, you have to re-tension them.

To adjust the belts, firstly remove the belt guard by unscrewing the 2 nuts. Loose the 2 bolts at the back of the engine-plate and shift the engine by using the screw on the back of the plate to retighten the belts.

To replace the belts, move the engine completely down by unscrewing the screw at the back of the engine-plate. Adjust the belts and retighten them using the screw at the back of the engine plate.

Always use a matched set of belts. Do not replace single belts. After controlling or retightening

the belts, reassemble the belt guard on the frame of the machine.

Lubrication

The BTCS350H uses life-lubricated bearings. Therefore, you don't need to lubricate them at all. Grease the depth screw every day.

Cleaning of the machine

Your machine will last longer if you clean it thoroughly after each day of work

6.2 Maintenance of the engine

		Each use	First month or 20 hours	Every 3 months or 50 hours	Every 6 months or 100 hours
Engine oil	Check level				
	Change				
Air cleaner filter	Check				
	Clean				
Fuel strainer cup	Clean				
Spark plug	Check-Clean				
Fuel line	Check (Replace if necessary)				
		Every 2 years			

Engine oil

To change the oil,

Remove the oil filler cap/dipstick and drain bolt.

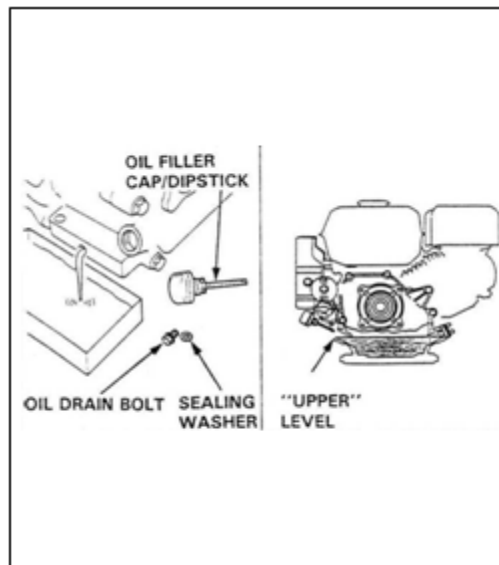
Allow the oil to drain completely.

Dispose of used motor oil in a manner that is compatible with the environment. We suggest you to take used oil in a sealed container to your local recycling centre or service station for reclamation. Do not throw it in the trash, pour it on the ground or down in a drain.

Reinstall the drain bolt, and tighten it to 18 N.m.

Fill the crankcase with the engine oil to the outer edge of the oil filler neck.

Reinstall the filler cap/dipstick.



Air cleaner

The BTC501 has a dual type filter
To service the air cleaner filter, follow these instructions:

Remove the nut, air cleaner cover and wing nut.

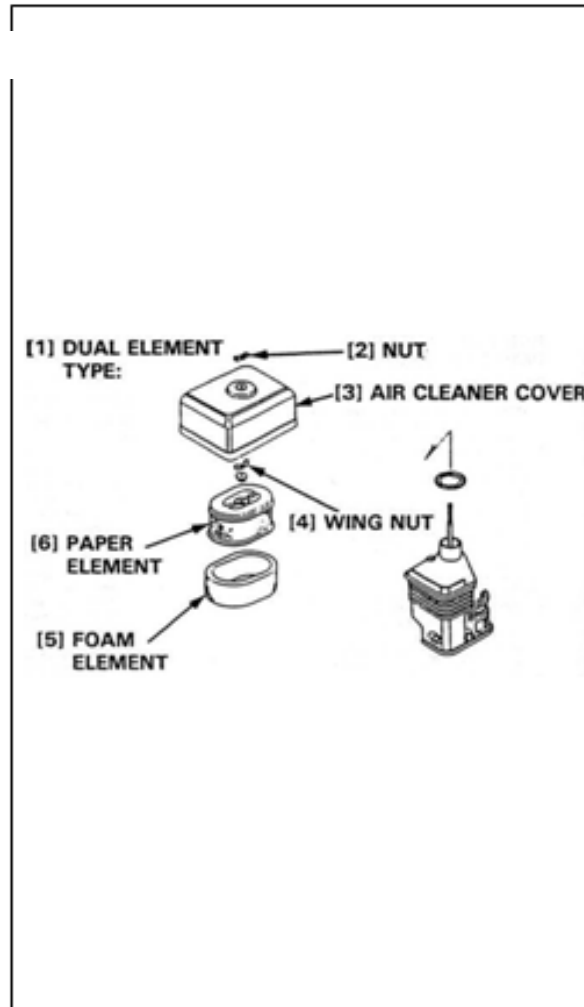
Remove the pre air cleaner elements and separate them.

Carefully check both elements for holes or tears and replace if damaged.

Paper element: tap element lightly several times on a hard surface to remove excess dirt or blow compressed air lightly through the filter from the inside out. Never brush the dirt off; brushing will force dirt into the fibres.

Foam element: clean in warm soapy water, rinse and allow to dry thoroughly. Dip the element in clean engine oil and squeeze out all the excess. The engine will smoke during initial start-up if too much oil is left in the foam.

Shine a light through the elements, and inspect them carefully. Reinstall the elements if they are free of holes and tears.



Fuel strainer cup

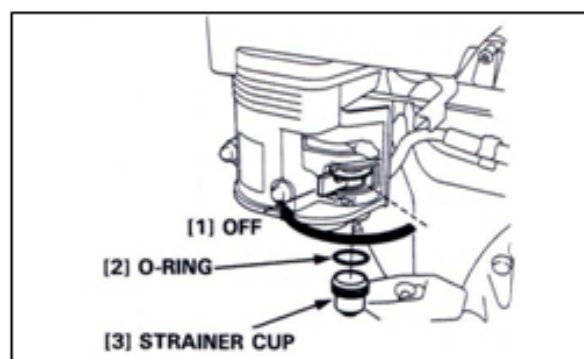
To service fuel strainer cup, follow these instructions:

Turn off the fuel valve and remove the strainer cup.

Clean the strainer cup with solvent.

Install the O-ring and strainer cup.

Tighten the strainer cup to 4N.m.



Spark plug

To service the spark plug, follow these instructions:

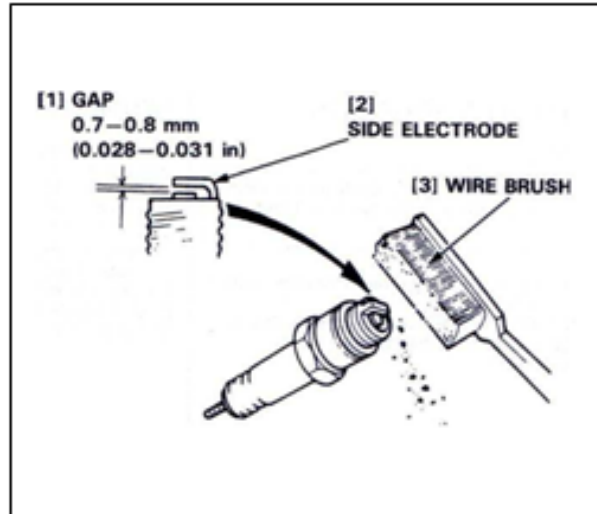
Visually inspect the spark plug. Discard the plug if the insulator is cracked or chipped.

Remove carbon or other deposits with a stiff wire brush.

Measure the plug gap with a wire-type feeler gauge. If necessary, adjust the gap by bending the side electrode.

Make sure the sealing washer is in good condition; replace the plug if necessary.

Install the plug fingertight to seat the washer, then tighten with a plug wrench (an additional ½ turn if a new plug) to compress the sealing washer. If you are reusing a plug, tighten 1/8-1/4 turn after the plug seats.



Fuel line

To service the fuel line, follow these instructions:

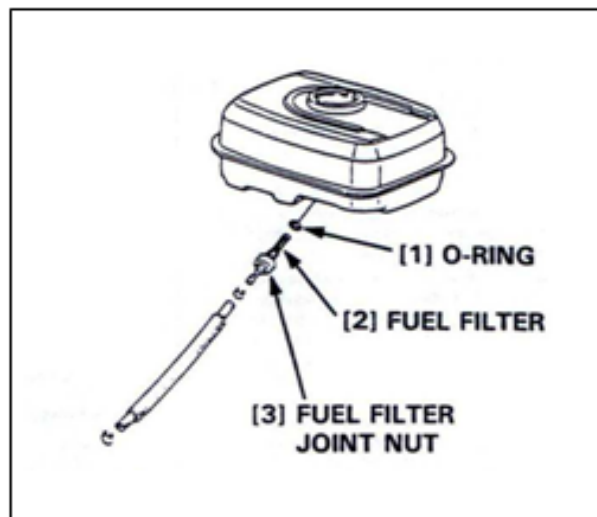
Drain the fuel into a suitable container, and remove the fuel tank.

Disconnect the fuel line, and unscrew the fuel filter from the tank.

Clean the filter with solvent, and check, that the filter screen is undamaged.

Place the O-ring on the filter and reinstall. Tighten the filter to 2N.m.

After reassembly, check for fuel leaks.



Further maintenance

For further maintenance, please contact the nearest engine maintenance centre.

TROUBLE SHOOTING

1. Engine

1.1 Starting deficient

SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Difficult to start, "fuel is available , but no SPARK at spark plug".	Spark plug bridging?	Check gap, insulation or replace spark plug.
	Carbon deposit on spark plug?	Clean or replace spark plug.
	Short circuit due to deficient spark plug insulation?	Check spark plug insulation, replace if worn.
	Improper spark plug gap?	Set to proper gap.
Difficult to start, "fuel is available , and SPARK is present at spark plug".	Console or engine ON/OFF switch is shorted?	Check switch wiring, replace switch.
	Ignition coil defective?	Replace ignition coil.
	Improper spark gap, points dirty?	Set correct spark gap and clean points.
	Condenser insulation worn or short circuiting?	Replace condenser.
	Spark plug wire broken or short circuiting?	Replace defective spark plug wiring.
Difficult to start, "fuel is available, spark is present and compression is normal"	Wrong fuel type?	Flush fuel system, and replace with correct type of fuel.
	Water or dust in fuel system?	Flush fuel system.
	Air cleaner dirty?	Clean or replace air cleaner.
Difficult to start, "fuel is available, spark is present and compression is low"	Suction/exhaust valve stuck or protruded?	Re-seat valves.
	Piston ring and/or cylinder worn?	Replace piston rings and ore piston.
	Cylinder head and/or spark plug not tightened properly?	Torque cylinder head bolts and spark plug.
	Head gasket and/or spark plug gasket damaged?	Replace head and spark plug gaskets.
No fuel present at carburetor	Fuel not available in fuel tank?	Fill with correct type of fuel.
	Fuel cock does not open properly?	Apply lubricant to loosen fuel cock lever, replace if necessary.
	Fuel filter clogged?	Replace fuel filter.
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap.
	Air in fuel line?	Bleed fuel line.

1.2 Operation deficient

SYMPTOM	POSSIBLEM PROMBLEM	SOLUTION
"Weak in power" compression is proper and does not misfire.	Air cleaner not clean?	Clean or replace air cleaner
	Improper level in carburetor?	Check float adjustment, re-build carburetor.
	Defective Spark plug?	Clean or replace spark plug.
	Defective Spark plug?	
"Weak in power" compression is proper but misfires.	Water in fuel system?	Flush fuel system, and replace with correct type of fuel.
	Dirty spark plug?	Clean or replace spark plug.
	Ignition coil defective?	Replace ignition coil.
Engine overheats.	Spark plug heat value improper?	Replace with correct type of spark plug.
	Correct type of fuel?	Replace with correct type of fuel
	Cooling fins dirty?	Clean cooling fins.
Rotational speed fluctuates.	Governor adjusted correctly?	Adjust governor.
	Governor spring defective?	Replace governor spring.
	Fuel flow restricted?	Check entire fuel system for leaks or clogs.
Recoil starter malfunction.	Recoil mechanism clogged with dust and dirt?	Clean recoil assembly with soap and water.
	Spiral spring loose?	Replace spiral spring.

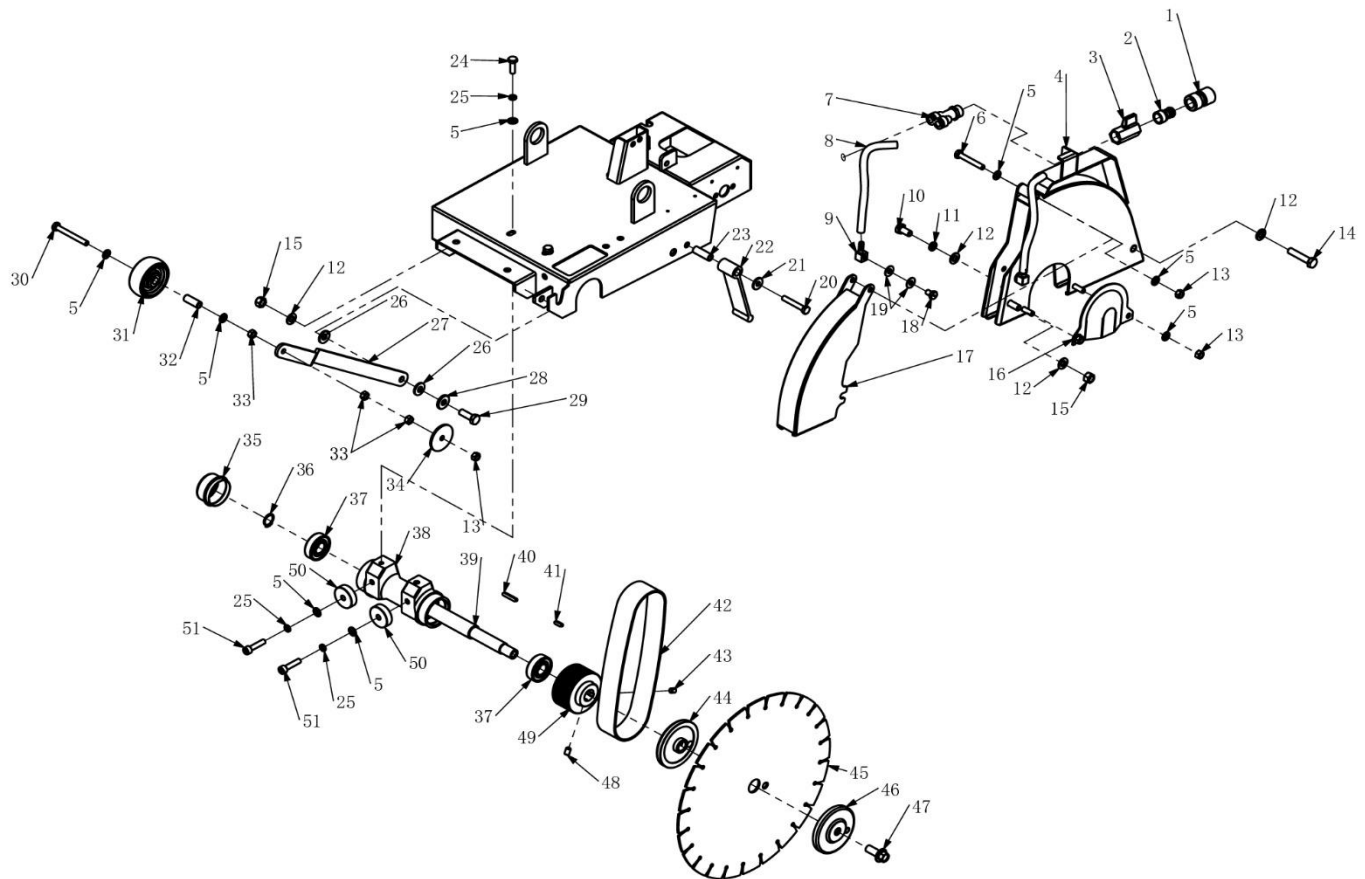
2. Machine

SYMPTOM	POSSIBLEM PROMBLEM	SOLUTION
Blade slows or Stops cutting, still remains on blade.	Blade too hard for the material being cut.	Try cutting very soft material (sandstone, silica brick, cinder block) to Redress the blade.
	Engine Torque diminished because of loose V-Belts.	Tighten and/or replace V-Belts.
	Insufficient Engine power.	Check throttle setting. Check engine horsepower.
	Improper direction of rotation.	Check that the blade is oriented, and rotational arrow points in a "Down-Cutting" direction.

	Blade is slipping on the blade shaft.	Check that the blade & flange pin is properly installed on the blade shaft.
Blade does not cut straight and/or true.	Blade being used on misaligned saw.	Check blade shaft bearings and alignment integrity.
	Blade is excessively hard for the material being cut.	Check specifications of the blade with the material being cut.
	Blade being used at improper RPM.	Ensure blade surface feet per minute speed is approximately 6000.
	Blade improperly mounted on arbor shoulders and flanges.	Ensure blade is properly affixed on the blade shaft.
	Excessive force applied to blade while cutting.	Do not force the blade in the cut. Apply a slow/steady pace to sawing.
Blade discoloring, crackling and/or wearing excessively.	Blade too hard for the material being cut.	Try cutting very soft material (sandstone, silica brick, cinder block) to Redress the blade.
	Blade improperly mounted on arbor shoulders and flanges.	Ensure blade is properly affixed on the blade shaft. Ensure the blade flanges are clean & free of debris.
	Blade not receiving enough cooling water or air.	Ensure proper flow & volume of water is provided for wet cutting blades.
	Arbor hole out of round.	Ensure blade is properly affixed on the blade shaft.
	Incorrect blade chosen for material being cut.	Check specifications of the blade with the material being cut.
	Excessive force applied to blade while cutting.	Do not force the blade in the cut. Apply a slow/steady pace to sawing.

8. PARTS

CUTTING SYSTEM

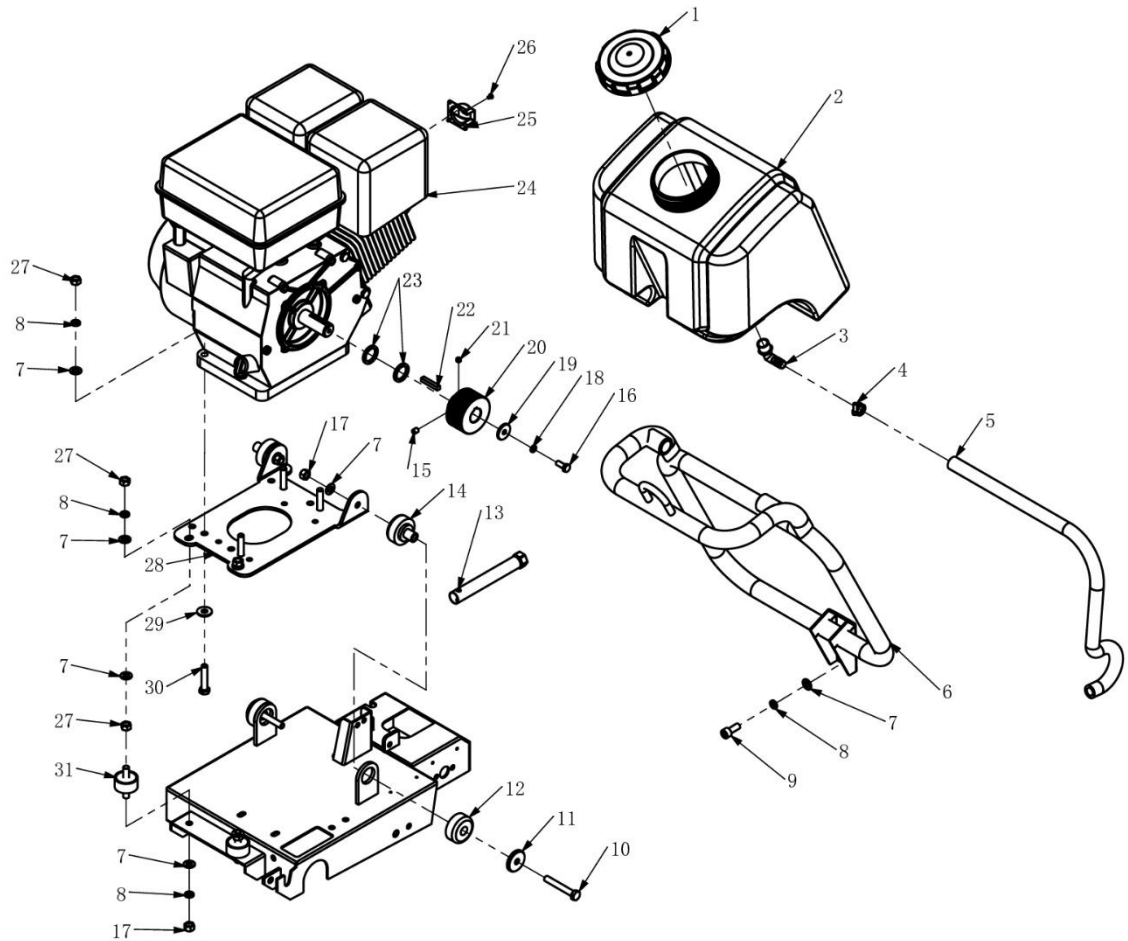


CUTTING SYSTEM

No.	Description	Drawing No.	Qty
1	Joint	70000010	1
2	Adaptor	70000008	1
3	Tap	70000005	1
4	Blade Cover (Rare)	1904-09100-3	1
5	Washer M8	11080000	10
6	Bolt M8x55	15080550	1
7	Tee Joint	1904-00036-4	1
8	Hose	1904-00034-1	2
9	Joint	1904-00032-1	2
10	Bolt M10x20	15100200	1
11	Spring Washer M10	12100000	1
12	Washer M10	11100000	4
13	Lock Nut M8	13080001	4
14	Bolt M10x50	15100500	1
15	Lock Nut M10	13100001	2
16	Side Cover	1904-00021-2	1
17	Blade Cover (Front)	1904-10000-3	1
18	Spray Nozzle	1904-00008-1	2
19	Nylon Washer Ø8	1904-00009-4	4
20	Bolt M8x50	15080500	1
21	Washer M8x22x2	11082202	1
22	Mudguard	1904-00014-4	1
23	Bushing	1904-00031-1	1
24	Bolt M8x25	15080250	2
25	Spring Washer M8	12080000	4
26	Wave Washer M10	14100005	2
27	Pointer	1904-00020-2	1
28	Washer M10x25x3(10x26x3)	11102503	1
29	Bolt M10x30	15100300	1
30	Bolt M8x70	15080700	1
31	Wheel	1902-00007-1	1
32	Bushing	1902-00006-1	1
33	Nut M8	13080000	3
34	Washer	1902-00005-2	1

No.	Description	Drawing No.	Qty
35	Side Cover (Bearing House)	1904-00013-4	1
36	Circlip $\Phi 20$	18200001	1
37	Bearing	1904-00050-4	2
38	Bearing House	1904-00001-1	1
39	Shaft	1904-00012-1	1
40	Key5x30	12050530A	1
41	Key5x16	20050516A	1
42	Belt	2714PJ660	1
43	Set Screw M8x10	16081005	1
44	Flange (Internal)	1904-13001-4	1
45	Blade	16140000	1
46	Flange (Outside)	1904-11000-1	1
47	Bolt M12x30	15123002	1
48	Bolt M8x12	16081205	1
49	Driven Pulley	1904-00018-4	1
50	Aluminum Washer	1904-00002-1	2
51	Allen Screw M8x35	16083503	2

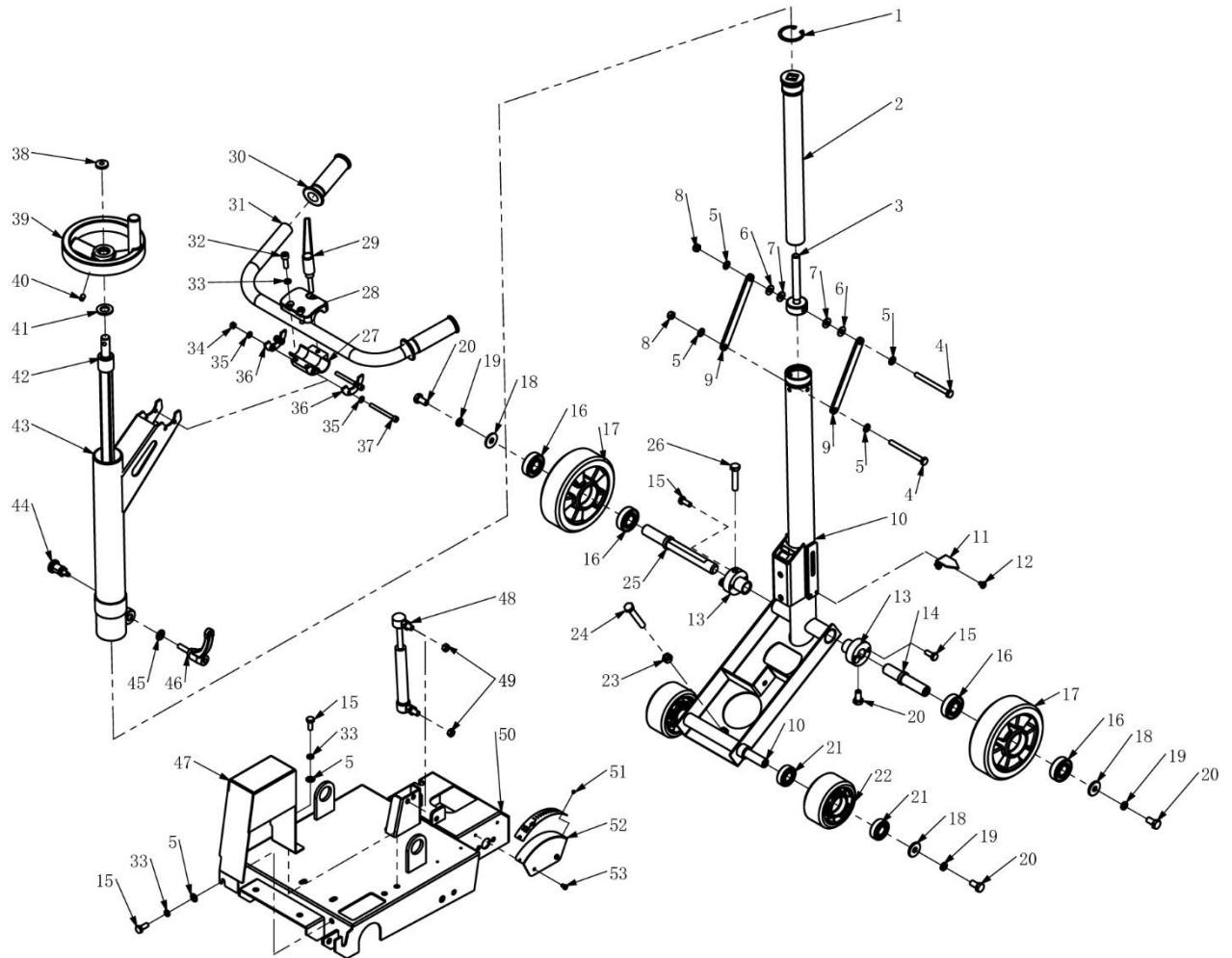
ENGINE & WATER TANK



ENGINE AND WATER TANK

No.	Description	Drawing No.	Qty
1	Cap (Water Tank)	1904-00027-4	1
2	Water Tank	1904-00037-4	1
3	Joint G1/2	1904-00035-4	1
4	Clamp Φ 19	70000006	1
5	Hose	1904-00040-1	1
6	Frame	1904-05000-3	1
7	Washer M10	11100000	14
8	Spring Washer M10	12100000	10
9	Allen Screw M10x25	16100253	2
10	Bolt M10x70	15100701	2
11	Washer M10x40x5	11104005	2
12	Shock Absorber	1904-00016-4	2
13	Wrench	89218-ZE1-000C	1
14	Shock Absorber	1904-00024-4	2
15	Set Screw M8x10	16081005	1
16	Bolt M8x20 (12.9)	15080208	1
17	Lock Nut M10	13100001	4
18	Spring Washer M8	12080000	1
19	Washer M8x30x3	11083003	1
20	Drive Pulley	1904-00051-4	1
21	Set Screw M8x6	16080605	1
22	Key 7x40	20070740C	1
23	Washer	70000049	2
24	Engine	25270001	1
25	Exhaust Outlet	18311-ZE3-811C	1
26	Screw M4x6	16040601	2
27	Nut M10	13100000	8
28	Base Plate for Engine	1904-00019-2	1
29	Washer M10x25x3(10x26x3)	11102503	4
30	Bolt M10x50	15100500	4
31	Shock Absorber	1904-00028-4	2

BODY AND LIFTIGN ASSEMBLY



BODY AND LIFTING ASSEMBLY

No.	Description	Drawing No.	Qty
1	Circlip Ø45	18450002	1
2	Adjustment Bar (Lower)	1904-06000-3	1
3	Adjustment Screw	1904-03000-3	1
4	Bolt M8x90	15080901	2
5	Washer M8	11080000	6
6	Nylon Washer Ø8x19x1	1904-00009-4	2
7	Nylon Washer Ø8x19x2	1904-00007-1	2
8	Lock Nut M8	13080001	2
9	Connector	1904-00045-2	2
10	Carriage	1904-08000-3	1
11	Indicator	1904-00017-2	1
12	Screw M6x8	16060801	2
13	Bushing	1904-00023-1	2
14	Rare Wheel Shaft (Left)	1904-00025-1	1
15	Bolt M8x20	15080200	6
16	Bearing 6204	216204-2R	4
17	Wheel	2416050601	2
18	Washer M10x30x3	11103003	4
19	Spring Washer M10	12100000	4
20	Bolt M10x20	15100200	5
21	Bearing 6203	216203-2R	4
22	Wheel	2410050501	2
23	Nut M10	13100000	1
24	Bolt M10x100	15101001	1
25	Rare Wheel Shaft (Right)	1904-00022-1	1
26	Bolt M10x50	15100500	1
27	Handle Clip (Lower)	1904-00006-1	1
28	Handle Clip (Upper)	1904-00039-1	1
29	Handle Bolt M8x32	28080324	1
30	Handle Grip	70260000	2
31	Handle Bar	1904-00026-1	1
32	Allen Screw M8x25	16082503	2
33	Spring Washer M8	12080000	4
34	Lock Nut M6	13060001	2

No.	Description	Drawing No.	Qty
35	Washer M6	11060000	4
36	Rubber Mat	1904-00010-4	2
37	Allen Screw M6x65	16066513	2
38	Wheel Lock	1904-00038-1	1
39	Hand Wheel	28160003	1
40	Bolt M8x12	16081205	1
41	Nylon Washer	1904-00041-1	1
42	Adjustment Bar (Upper)	1904-04000-3	1
43	Handle	1904-02000-3	1
44	Pin M8x10	19081004	1
45	Washer M10	11100000	1
46	Handle Bolt M10x30	28100304	1
47	Belt Cover	1904-00043-2	1
48	Gas Spring	1904-00015-4	1
49	Nut M8	13080000	2
50	Base Assy.	1904-07000-3	1
51	Rivet M3	80000004	2
52	Dial	1904-01000-3	1
53	Screw M5x8	16050801	2

Declaration of Conformity / Certificat de conformite / Gelijkvormigheidscertificaat / Declaracion de Conformidad / Declaracao de Concormidade / Dichiarazione Di Conformita

Model : BTCS350H

We Beton Trowel BV

Declare under our sole responsibility that the product to which this declaration relates is in conformity with the following standards or other normative documents.

Declarons sous notre responsabilite que le produit cette declaration est conforme aux norms suivantes ou d'autres documents habituels.

Verklaren onder onze verantwoordelijkheid dat het product naar welke de verklaring verwijst conform de volgende standards of anders gebruikelijke documenten is.

Declaramos bajo nuestra unica responsabilidad que el producto en lo que esta declaracion concierne, es conforme con la siguiente normative u otros documentos.

Declara sob sua responsabilidade que o produto a quem esta declaracao interessar, esta em conformidade com os seguintes documentos legais ou normas directivas.

Dichiariamo sotto la ns. Unica responsabilita che il prodotto al quale questa dichiarazione si riferisce, e fabbricato in conformita ai seguenti standard e documenti di normative.

**EN 349.2008:A1:2008 EN 12100:2010 EN12649:2008+A1:2011 EN ISO 5349-2:2001
+A1:2015**

Following the provisions of Directives:

Suivant les directives determinees:

Volgens de vastgestelde richtlijnen:

Siguiendo las directivas:

No sequimento das clausulas da Directivas

Seguendo quanto indicato dalla Direttivas:

2006/42/EC Machinery Directive

2000/14/EC Noise Directive

2001/95/EC General Product Safety Directive

2002/95/EC Reduction of Hazardous Waste Directive

LVD2014/35/EU Low Voltage Directive

2004/30/EU Electromagnetic Compatibility



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29/07/2021