INSTRUCTION MANUAL

EARLY ENTRY SAW
BTCS06EE

Nijverheidsstraat 10
1840 Londerzeel/Belgium
Tel: +32 (0)52 315 350 - Tel: +32 (0)52 315 351
Fax: +32 (0)52 315 359
E-mail: info@betontrowel.com
BE 0821.249.312
www.betontrowel.com

BNP FORTIS: BE81 0015 9813 5624 - GEBABEBB
ING: BE BBRUBEBB

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
BETON TROWEL
Nijverheidsstraat 10
1840 Londerzeel
BELGIUM
www.betontrowel.com

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.

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1 KEY SYMBOLS

Symbols on the machine

WARNING! The machine can be a dangerous tool if used incorrectly or carelessly, which can cause serious or fatal injury to the operator or others.

Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

Keep all parts of your body away from hot surfaces.

Engine exhaust fumes contain carbon monoxide, which can cause carbon monoxide poisoning. For this reason you should not start or run the machine indoors, or anywhere that is poorly ventilated.

Always stop the engine and let it cool for a few minutes before refuelling.

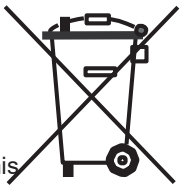
Fire, open flame and smoking are prohibited.

Engine oil

Too low oil level. Fill with engine oil to the correct level.

This product is in accordance with applicable EC directives.

Noise emission to the environment according to the European Community's Directive. The machine's emission is specified in chapter Technical data and on label.



Environmental marking. Symbols on the product or its packaging indicate that this product cannot be handled as domestic waste. It must instead be submitted to an appropriate recycling station for the recovery of electrical and electronic equipment.

By ensuring that this product is taken care of correctly, you can help to counteract the potential negative impact
on the environment and people that can otherwise result through the incorrect waste management of this product.

For more detailed information about recycling this product, contact your municipality, your domestic waste service or the shop from where you purchased the product.

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Other symbols/decals on the machine refer to special certification requirements for certain markets.

Explanation of warning levels

The warnings are graded in three levels.

WARNING!

WARNING! Used if there is a risk of serious injury or death for the operator or damage to the surroundings if the instructions in the manual are not followed.

CAUTION!

CAUTION! Used if there is a risk of injury to the operator or damage to the surroundings if the instructions in the manual are not followed.

NOTICE!

NOTICE! Used if there is a risk of damage to materials or the machine if the instructions in the manual are not followed.

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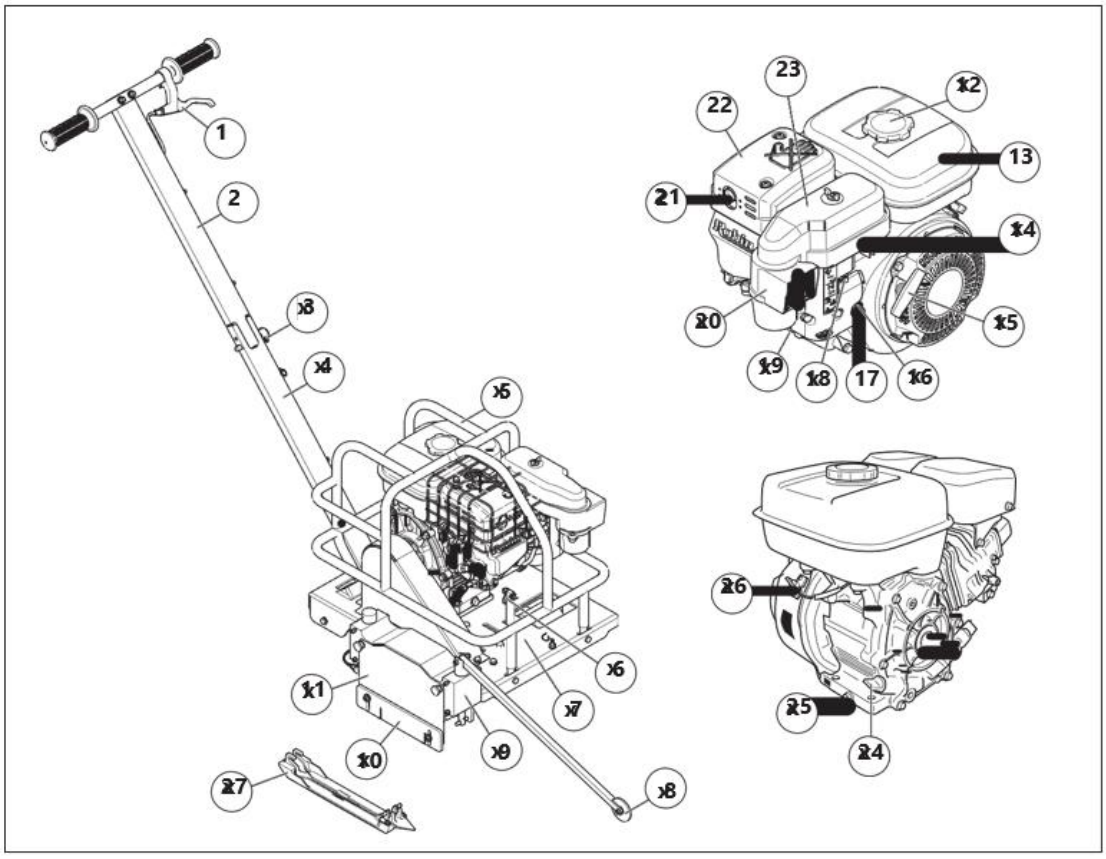
2 Presentation



What is what on the machine?

1 Blade release lever
2 Upper handle
3 Locking pin, handle
4 Lower handle
5 Roll cage
6 Depth stop adjustment
7 Saw frame
8 Front guide
9 Blade block
10 Lexan cover
11 Blade block guard
12 Fuel tank filler cap
13 Fuel tank
14 Throttle control
15 Starter handle
16 Fuel valve
17 Fuel cup
18 Choke control
19 Carburettor
20 Cyclonic pre-cleaner
21 Exhaust outlet
22 Muffler cover
23 Muffler cover
24 Dipstick/oil filler
25 Drain plug
26 ON/OFF switch
27 Skid plate (Not included.)
28 Operator's manual

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3. Machine safety

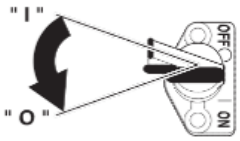
General

WARNING! Never use a machine that has faulty safety equipment! If your machine fails any of these checks contact your service agent to get it repaired. The engine should be switched off during operations described in this chapter unless otherwise stated.

This section describes the machine´s safety equipment, its purpose, and how checks and maintenance should be carried out to ensure that it operates correctly.

ON/OFF switch

The ON/OFF switch is used to turn the engine on and off.

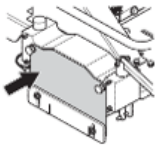


Checking the ON/OFF switch

- Turn the switch to the 'ON" ('1" position) to start the engine. The blade starts to rotate when the engine is turned on.
- Turn the switch to the 'OFF" ('O" position). Check that the engine stops.

Blade block guard

The blade block protects the operator from the rotating blade and controls dust.

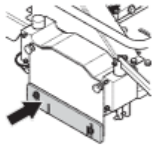


Checking the blade block guard

- Check that the guard is undamaged and not cracked. Replace the guard if it has been exposed to impact or is cracked.
- A damaged blade block assembly must be replaced to protect the operator.
- Always check that the guard is correctly fitted before starting the machine.

Lexan cover

- The lexan cover primarily controls dust, but also aids to deflect particle ejection.

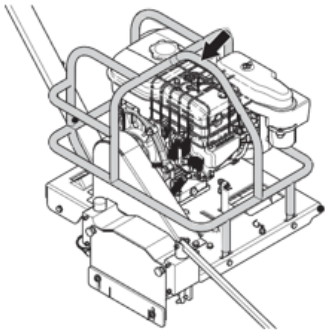


Checking the lexan cover

- Check that the guard is undamaged and not cracked. Replace the guard if it has been exposed to impact or is cracked.
- Always check that the guard is correctly fitted before starting the machine.
- Ensure the lexan cover move freely up and down.

Roll cage

The roll cage protects the equipment/engine and operator from damage.

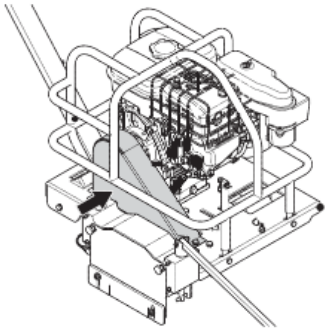


Checking the roll cage

- Check that the guard is undamaged and not cracked. Replace the guard if it has been exposed to impact or is cracked.
- Always check that the guard is correctly fitted before starting the machine.

Belt guard

The belt guard protects the operator from rotating sheaves and belt.



Checking the belt guard

- Check that the guard is undamaged and not cracked. Replace the guard if it has been exposed to impact or is cracked.
- Always check that the guard is correctly fitted before starting the machine.

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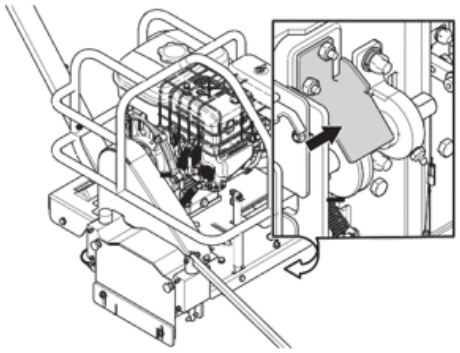
Sheave guard

The sheave guard protects the operator from rotating bladeshaft sheave.

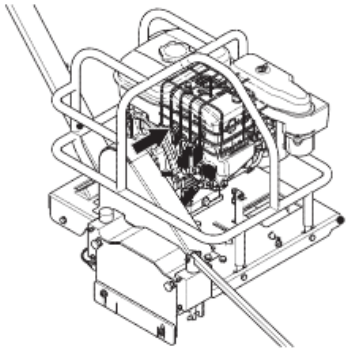


Checking the sheave guard

- Check that the guard is undamaged and not cracked. Replace the guard if it has been exposed to impact or is cracked.
- Always check that the guard is correctly fitted before starting the machine.

Muffler guard

The muffler guard protects the operator from getting into contact with the hot muffler.



Checking the muffler guard

- Check that the guard is undamaged and not cracked. Replace the guard if it has been exposed to impact or is cracked.
- Always check that the guard is correctly fitted before starting the machine.

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4 Assembly and commissioning

General

WARNING! The engine should be switched off during operations described in this chapter unless otherwise stated. Remove the ignition cable from the spark plug to prevent accidental engine starting.

Unpacking

- Remove the saw from the package. Use proper lifting technique. The saw should be lifted from the center handle on the roll cage.
- Discard or recycle the packing material per your regional laws.

No diamond cutting blade or skid is included with the saw. Purchase the appropriate blade and skid plate from your local Construction Product dealer.

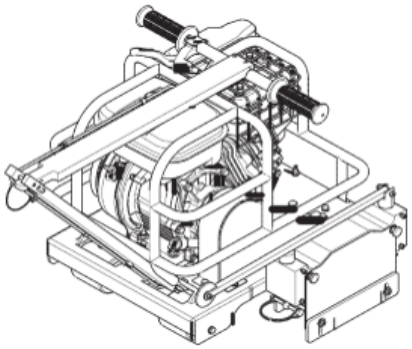
Fit the blade

CAUTION! Inspect the blade for damage, cracks, loss of segments, warping, overheating, excessive wear or a damaged tri-arbor hole. If the blade shows any of these problems, discard the blade.

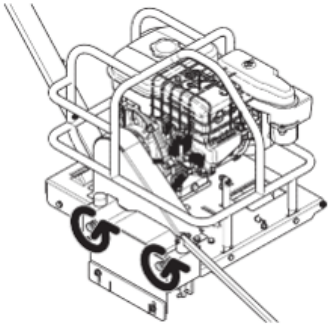
Make sure the blade is marked with a maximum operating speed greater than 4450 rpm.

Inspect blade flanges for damage, excessive wear and cleanliness. The blade should fit snugly on clean, undamaged, tri-arbor shaft.

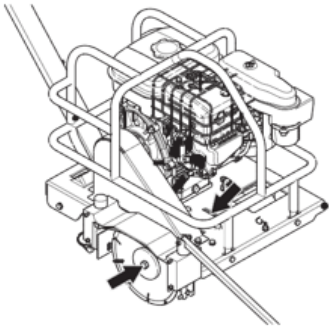
- Fold the handle to its full upright position.
- Insert the locking pin.



- Raise the blade by pushing down on the handle bar with both hands to the full and locked position.
- Remove the blade block guard.



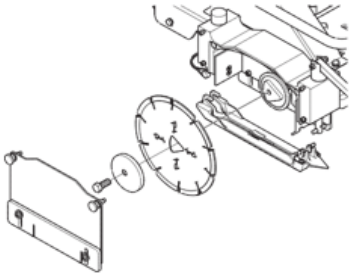
- Insert one the two wrenches supplied, in the slot at the front of the engine and one on the blade shaft bolt.



- Rotate the blade shaft counter-clockwise with wrench on the blade shaft bolt until the second wrench engages the flats on the other end of the shaft.
- Remove the blade shaft bolt by continuing to turn the bolt counter-clockwise.
- Remove the outer blade flange.
- Discard the old skid plate.

NOTICE! The patented skid plate is the most important part of the Soff-Cut Ultra Early Entry system. If it is bent, twisted or damaged, spalling and raveling of a cut may result. Store skid plates carefully and install them properly. Install a new skid plate with each new blade. Never re-use skid plates.

- Thoroughly clean the concrete from the shaft, blade block and blade block guard.
- Mount the clean blade on the blade shaft.



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- Mount the outer blade flange. Tighten the bolt firmly.
- Install a new skid plate.

  Hook the front of the skid plate on the front blade block shaft pin.

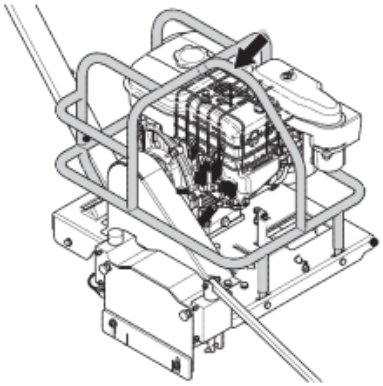
  Connect the rear blade block shaft and the rear of the skid plate by installing the locking pin.
- Mount the blade block guard. Tighten until fully seated against the blade block.
- Lift the front and rear of the skid plate to ensure the blade slides freely through the skid plate.
- Ensure the lexan cover move freely up and down.

Pre operational checks

The engine is delivered without oil. Fill with engine oil to the correct level. Refer to Technical Data for recommendations on which oil type to use.

Transport

- Remove the locking pin.
- Fold the handle forward.
- Fold the guide arm back.
- The saw should be lifted from the center handle on the roll cage.



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5 Operating

Starting and stopping

Before starting

WARNING! Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

Wear personal protective equipment. See instructions under the heading "Personal protective equipment".

Make sure no unauthorised persons are in the working area, otherwise there is a risk of serious personal injury.

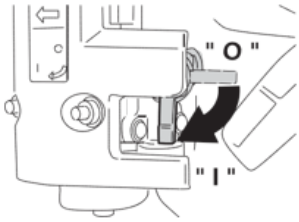
Check that the guards are mounted correctly and do not show any signs of damage. See instructions in the section "Machine's safety equipment" and "Assembly and settings".

- Perform daily maintenance. See instructions in the section "Maintenance".
- Check that the handle is in full upright position and pinned.
- Check that the front guide is rotated to the forward position.

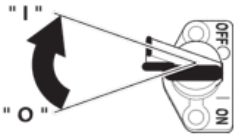
Starting

Start the engine

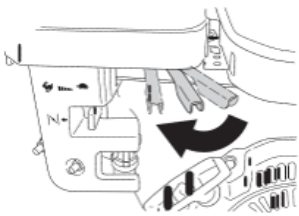
- Open the fuel valve.



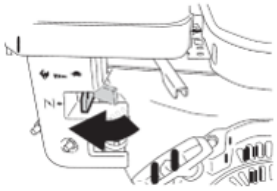
- Raise the blade by pushing down on the handle bar with both hands to the full and locked position.
- Turn the switch to the 'ON" ('1" position) to start the engine. The blade starts to rotate when the engine is turned on.



- Move the speed lever 1/3 of the way to the open position.



- Close the engine choke lever.



The closed choke position enriches the fuel mixture for starting a cold engine.

The open choke position provides the correct fuel mixture for operation after the engine starts and for restarting a warm engine.

- Pull the starter handle.
- After the engine starts, slowly open the choke. Allow the engine to warm for a few minutes.

Start cutting

- Open the engine throttle lever to full open position for maximum engine speed.
- Line up the saw with the cut line using the white wheel on the front guide and the triangle pointer on the back of the blade block.
- Push down on the saw handle and pull the blade release lever to lower the blade in the concrete slowly.
- Push the saw forward to cut keeping the front guide wheel in the cut line.
- Push the saw at about half speed for the first 50 feet to allow the blade to develop good diamond exposure or open up and promote full blade life.
- Increase the forward speed of the saw until the blade and engine are working at maximum efficiency. Do not force the saw.
- When approaching a wall, raise the front guide and use the triangle guide at the back of the blade block to cut the last few feet.
- Do not hit the blade block assembly against any object. Damage may result.

Stopping

- Raise the blade by pushing down on the handle bar with both hands to the full and locked position.
- Move the engine throttle lever to the full closed position.
- Turn the switch to the 'OFF" ('O" position).
- Close the fuel valve.
- Clean the machine.

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6 Maintenance

Maintenance schedule

In the maintenance schedule you can see which parts of your machine that require maintenance, and with which intervals it should take place. The intervals are calculated based on daily use of the machine, and may differ depending on the rate of usage.

	Daily maintenance	Weekly maintenance/40 hours	Monthly maintenance/200 hours
Cleaning	External cleaning	Air cleaner	Fuel cup
		Spark plug	
Check	General inspection	Drive belt	Spark plug and electrode gap
	Skid plate		
	Lexan cover*		
	Blade block guard*		
	Blade**		
	Fuel level***		
	Oil level		
Change		Oil (After the first 20 h then every 100 h)	Air cleaner element
Greasing		Blade shaft bearings	

*See instructions in the section "Machine's safety equipment".

** See instructions in the section "Blades" and "Assembly and settings".

***See instructions in the section "Fuel handling".

Cleaning

External cleaning

- Clean the machine daily by rinsing it with clean water after the work is finished. Keep the handles clean and dry.
- Clean the blade block of any excess concrete build up after each use. Use a heavy-duty hand-held brush or a large paint brush.
- If you have spilt fuel or engine oil on the machine. Wipe off the spill and allow the remaining fuel to evaporate.
- Keep all openings and slots on the saw clean open so air flows freely through the engine compartment to ensure proper cooling.

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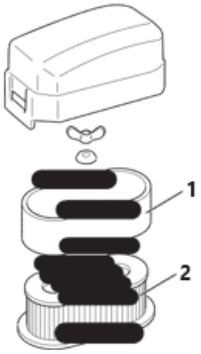
Air cleaner



- Wash the urethane foam (1) with detergent. Allow the filter to dry.
- Clean the paper element (2) by tapping gently to remove dirt and blow off dust.

Spark plug

- Ensure that the spark plug cap and ignition lead are undamaged to avoid the risk of electric shock.
- Clean off carbon deposits on the spark plug electrode using a plug cleaner or wire brush.

Fuel cup

- Inspect fuel cup for water and dirt.
- To remove water and dirt, close the fuel tap and remove the fuel cup.
- After removing dirt and water, wash the fuel cup with kerosene or gasoline.
- Reinstall securely to prevent leakage.

Check

General inspection

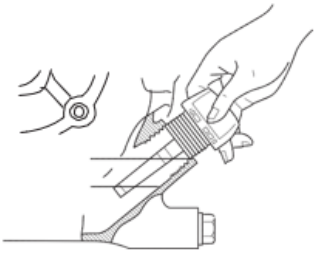
- Check that nuts and screws are tight.
- Check for fuel and oil leakage.

Skid plate

- Check for damage and excessive wear in the blade slot.
- Check for burrs on the concrete surface side and twisting.
- Install a new skid plate with each new blade. Never re-use skid plates.
- Lift the front and rear of the skid plate to ensure the blade slides freely through the skid plate.

Oil level

- Turn off the engine.
- Lower the machine and make sure the engine is in level.
- Remove the oil cap and wipe the dipstick clean.
- Check the oil level. Do not screw the oil dipstick into the oil filler neck to check the oil level.



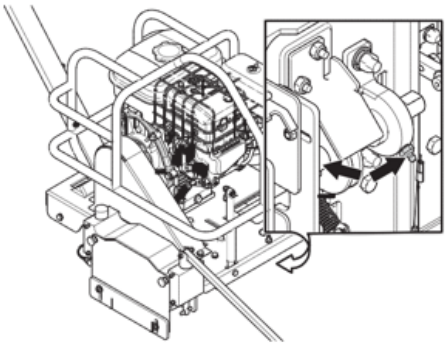
- If the oil level is low, fill using engine oil up to the upper level on the dipstick. See instructions in section "Technical data" for oil specification.
- Screw on the oil filler cap.

Drive belt

- Check that drive belt is not damaged and is not visibly defective.
- The belt tension is controlled by belt tensioner and does not require adjustment.
- Inspect the belt tensioner for free movement up and down.
- Ensure the belt tensioner bearings roll freely.

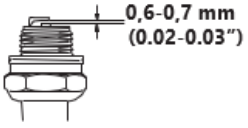
Blade shaft bearings

- Lubricate the blade shaft bearings with 3 pumps of Lithium 12 based grease.



Spark plug and electrode gap

- See cleaning instructions under the heading "Cleaning".
- Check electrode gap. The gap should be 0.6 mm to 0.7 mm (0.02 inch.-0.03 inch).



- Adjust the gap, if necessary, by carefully bending the side electrode.

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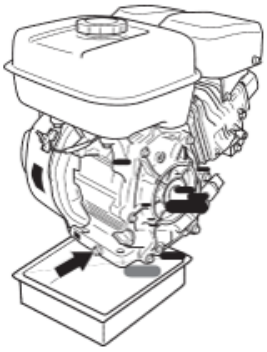
Change

Oil

Change oil after the first 20 hours of use thereafter every 100 hours.

Change the engine oil while the engine is hot.

- Turn off the engine.
- Place a pan under the drain and remove the plug.



- Let the oil run out into the container.
- Put the plug back and fill with new oil.
- When full, the oil level should be at the high level mark on the dipstick.

Oil sensor

The engine is equipped with an oil alert system that will stop the engine if the oil level is low.

The engine cannot be started unless the level is raised above the prescribed limit.

Disposal

Used engine oil is a health hazard and must not be disposed of on the ground or in nature; it should always be disposed of at a workshop or appropriate disposal location.

Air cleaner element

See cleaning instructions under the heading "Cleaning".

- Replace the paper element monthly or earlier if necessary.

Additional engine information

Please see the engine Operator's Manual for additional information about servicing the engine.

The manual also has specific information about specifications, tune-up parts, engine warranty, emission compliance, etc.

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7 Technical Data

Weight and Dimensions

Weight without fuel, kg (lbs)	38 (84)
Weight with fuel, kg (lbs)	41 (91)
Length (handle folded in), mm (inch)	864 (34)
Width, mm (inch)	483 (19)
Height, mm (inch)	533 (21)

Blade

Blade type	Excel blades, dry cut with tri-arbor
Material	Green concrete only
Blade size - max, mm (inches)	152 (6)
Maximum depth of cut, mm (inch)	30 (1 3/16)
Cutting distance from wall, mm (inch)	76 (3)
Blade rotation	Counter clockwise, upcutting
Blade shaft speed, rpm	4450 (Average 3,800)
Blade depth control	Manual

Average cutting rate

Estimate only. Speed will vary with job conditions and concrete mixes.

Soft aggregates, m/min (ft/min)	3,7 (12)
Medium aggregates, m/min (ft/min)	2,4 (8)
Hard aggregates, m/min (ft/min)	1,2 (4)

Noise emissions	
Sound power level, measured dB(A)	98
Sound power level, guaranteed L_{WA} dB(A)	99
Sound levels	
Equivalent sound pressure level at the operator's ear, dB(A)	84
Vibration levels, a_{hv} (see note 3)	
Right handle, m/s^2	7,9
Left handle, m/s^2	7,8

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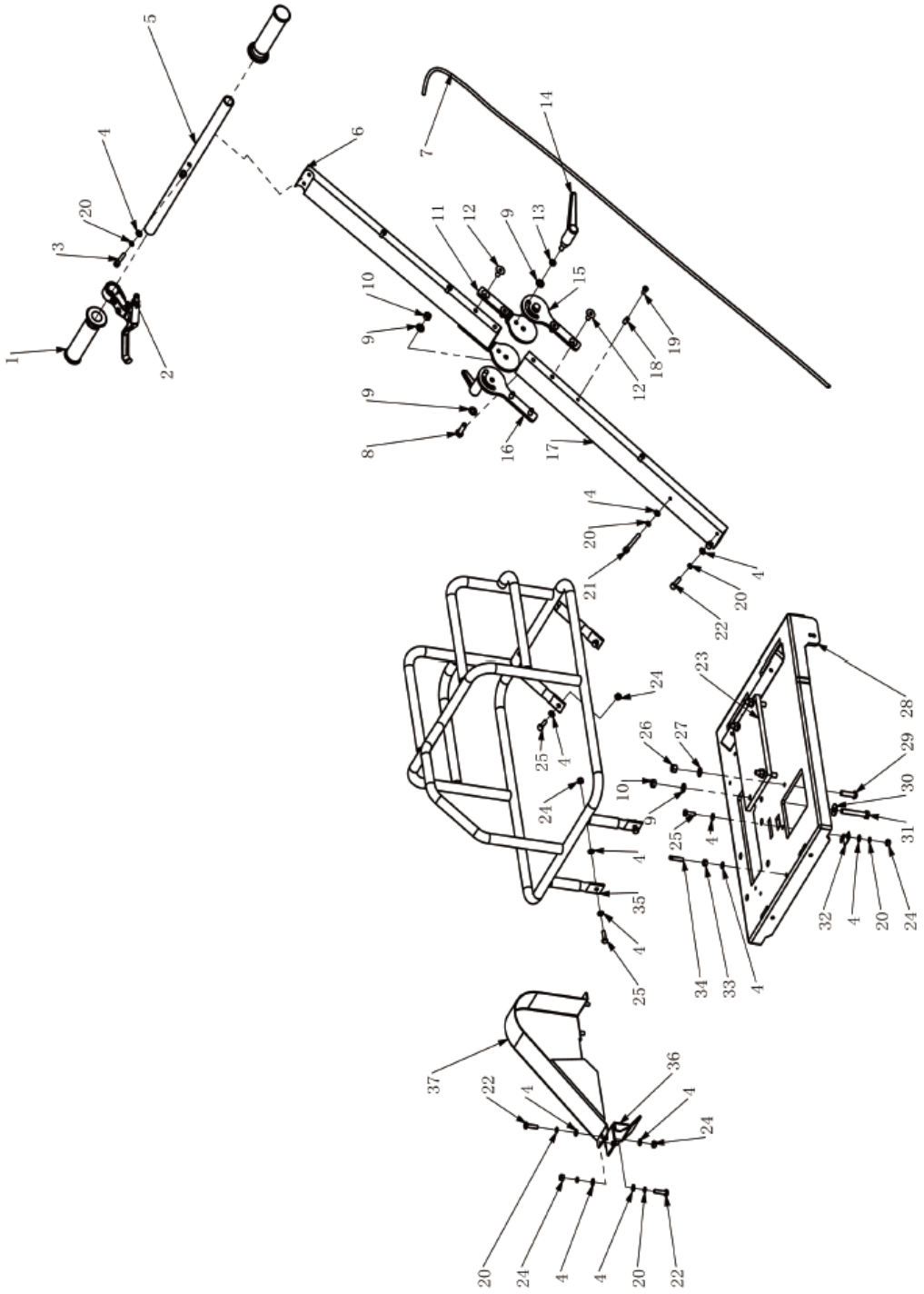
8. PARTS



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1840 Londerzeel/Belgium
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Fax: +32 (0)52 315 359
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MAIN BODY

No.	Description	Drawing No.	Qty
1	Handle Grip	70220000	2
2	Brake Grip	1906-00011-4	1
3	Allen Screw M6x30	16063020	2
4	Washer M6	11060010	21
5	Handle Bar	1906-00044-1	1
6	Upper Handle	1906-00038-1	1
7	Wire	1906-00009-4	1
8	Bolt M8x25	15080250	2
9	Washer M8	11080000	10
10	Lock Nut M8	13080001	6
11	Connecting Plate, Upper	1906-00054-2	2
12	Allen Screw M8x16	16081604	8
13	Spring Washer M8	12080000	2
14	Locking Handle M8x16	28080164	2
15	Connecting Plate, Lower Left	1906-00053-2	1
16	Connecting Plate, Lower Right	1906-00052-2	1
17	Lower Handle	1906-00023-1	1
18	Wire Clip	1906-00002-4	4
19	Bolt M5x12	16051201	4
20	Spring Washer M6	12060010	11
21	Allen Screw M6x50	16065020	1
22	Bolt M6x25	15062511	4
23	Rubber Engine Spacer	1906-00010-4	1
24	Lock Nut M6	13060011	7
25	Bolt M6x20	15062011	7
26	Nut M8	13080012	1
27	Washer M8	11080010	1
28	Engine Base	1906-00032-1	1
29	Allen Screw M8x30	16083019	1
30	Washer M8x22x2	11082202	4
31	Bolt M8x55	15080550	4
32	Anchor, Position Bar	1906-00027-2	1
33	Nut M6	13060012	1
34	Bolt M6x30	1906-00003-4	1
35	Frame	1906-05000-3	1
36	Lower Shield	1906-00019-2	1
37	Belt Cover	1906-00029-2	1

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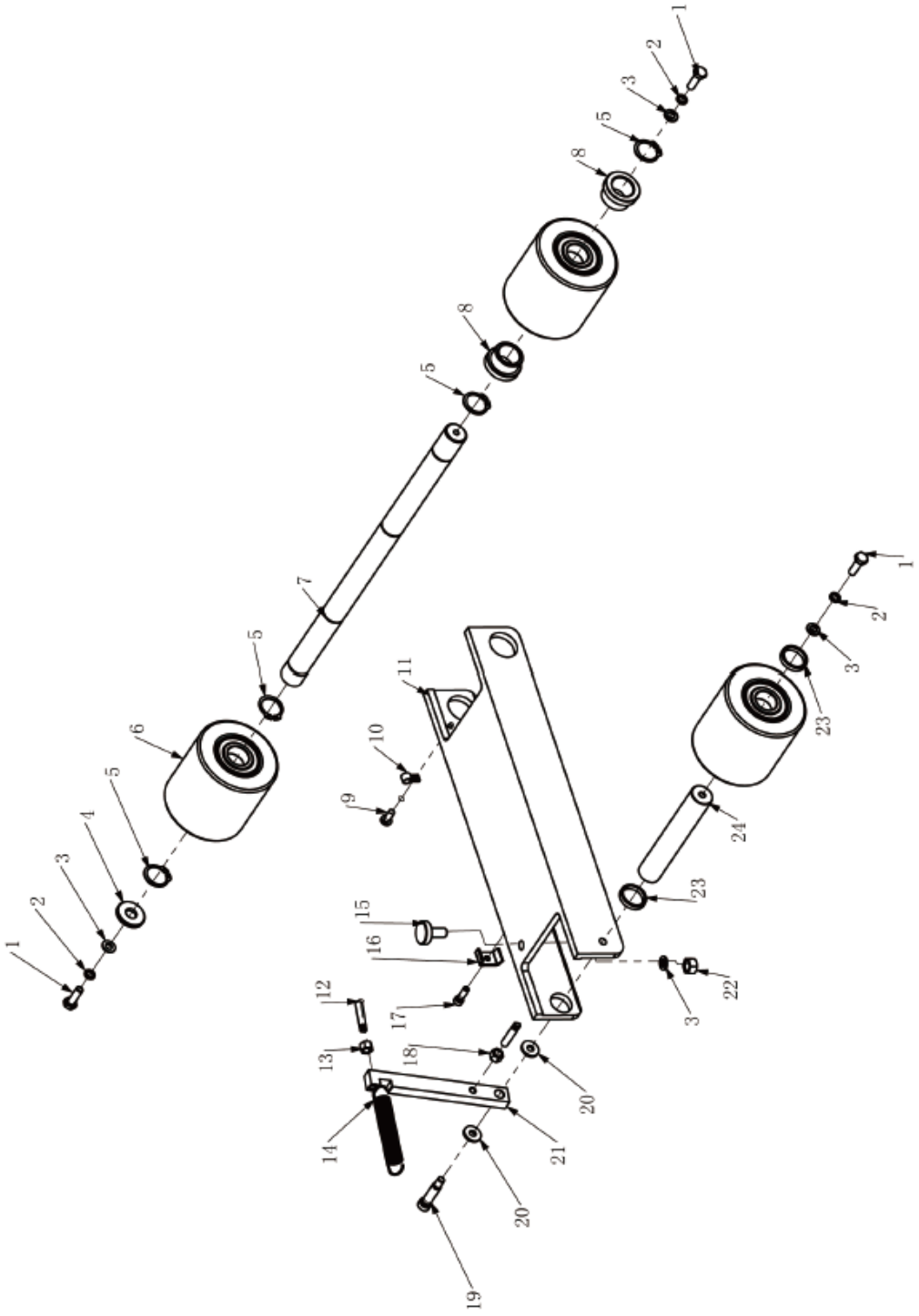

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ADJUSTMENT SYSTEM

No.	Description	Drawing No.	Qty
1	Bolt M6x20	15062011	3
2	Spring Washer M6	12060010	3
3	Washer M6	11060010	4
4	Washer M10x25x3(10x26x3)	11102503	1
5	Circlip Φ20	18200001	4
6	Wheel	1906-02000-1	3
7	Rare Shaft	1906-00017-1	1
8	Nylon Bushing	1906-00020-1	2
9	Bolt M5x12	16051201	1
10	Wire Clip	1906-00002-4	1
11	Carriage	1906-00028-1	1
12	Bolt M6x30	1906-00003-4	2
13	Nut M6	13060000	1
14	Spring	1906-00007-4	1
15	Bolt M8x18	16081823	1
16	Wire Clip	1906-00012-2	1
17	Allen Screw M5x16	16051620	1
18	Nut M6	13060012	1
19	Bolt M6xΦ8x25	16062510	1
20	Spacer	1906-00001-4	2
21	Position Bar	1906-00025-1	1
22	Lock Nut M8	13080001	1
23	Spacer	1906-00026-2	2
24	Front Shaft	1906-00042-1	1

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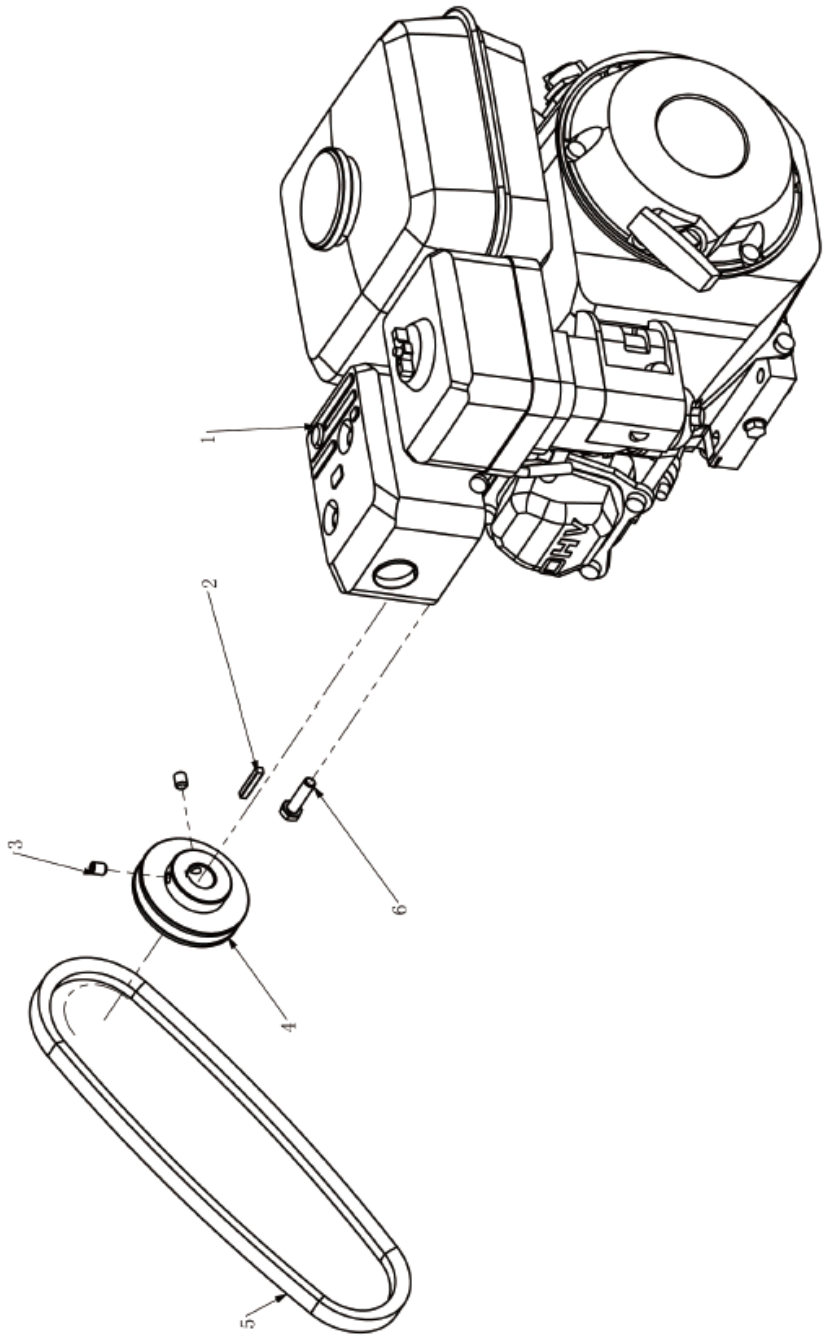

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ENGINE

No.	Description	Drawing No.	Qty
1	Engine	25120002	1
2	Key 4.76x30	204.7630C	1
3	Set Screw M8x10	16081005	2
4	Drive Pulley	1906-00005-4	1
5	Belt	27XPZ7103VX280	1
6	Bolt 5/16-24x1-1/4	15080350Y	1

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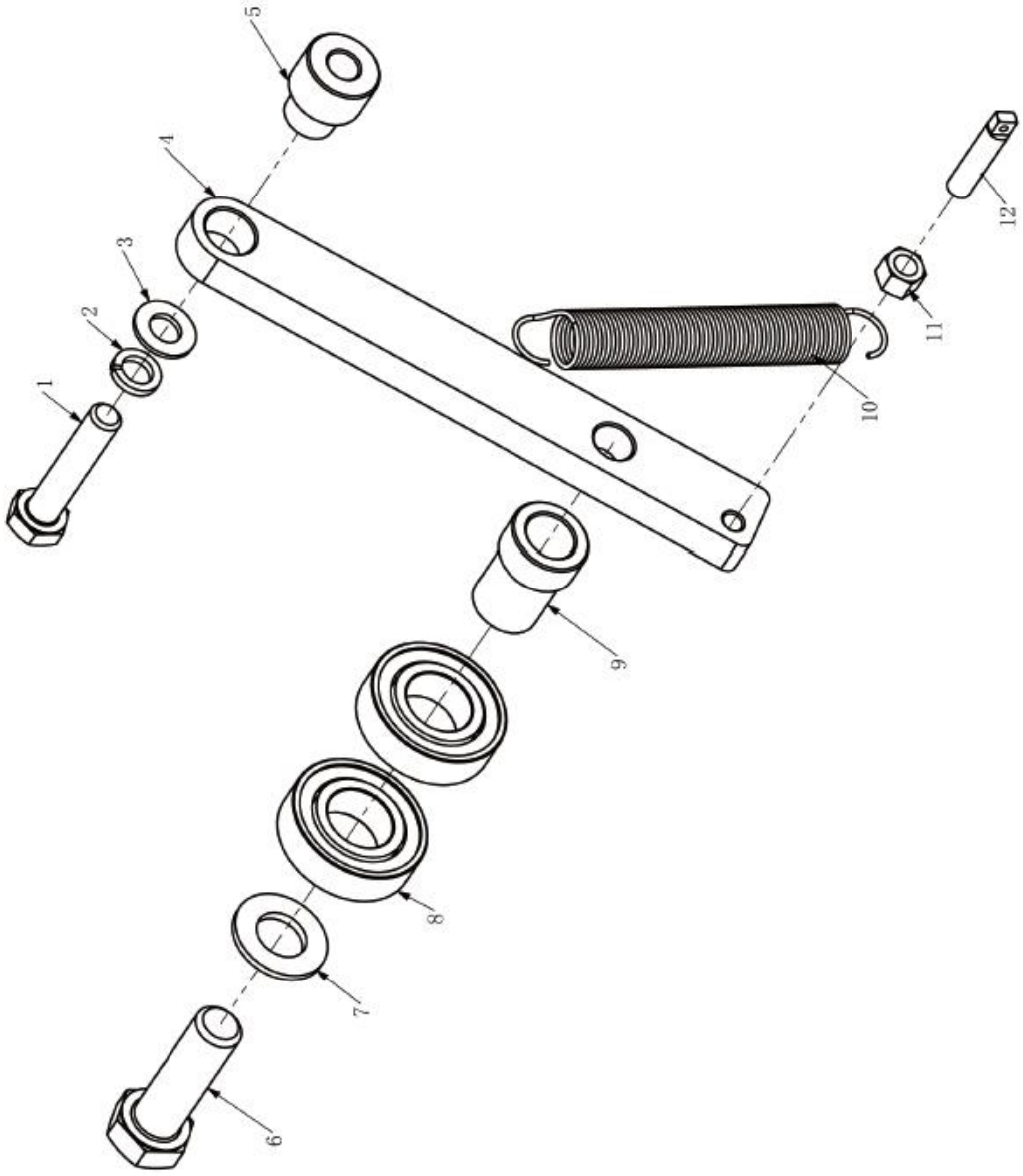

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TENSIONER

No.	Description	Drawing No.	Qty
1	Bolt M8x40	15080400	1
2	Spring Washer M8	12080010	1
3	Washer M8	11080010	1
4	Tensioner Rod	1906-01001-2	1
5	Bushing	1906-01002-1	1
6	Bolt M12x40	15120400	1
7	Washer M12	11120000	1
8	Bearing 6003-2R	216003-2Z	2
9	Bushing	1906-01003-1	1
10	Spring	1906-00008-4	1
11	Nut M6	13060012	1
12	Bolt M6x30	1906-00003-4	1

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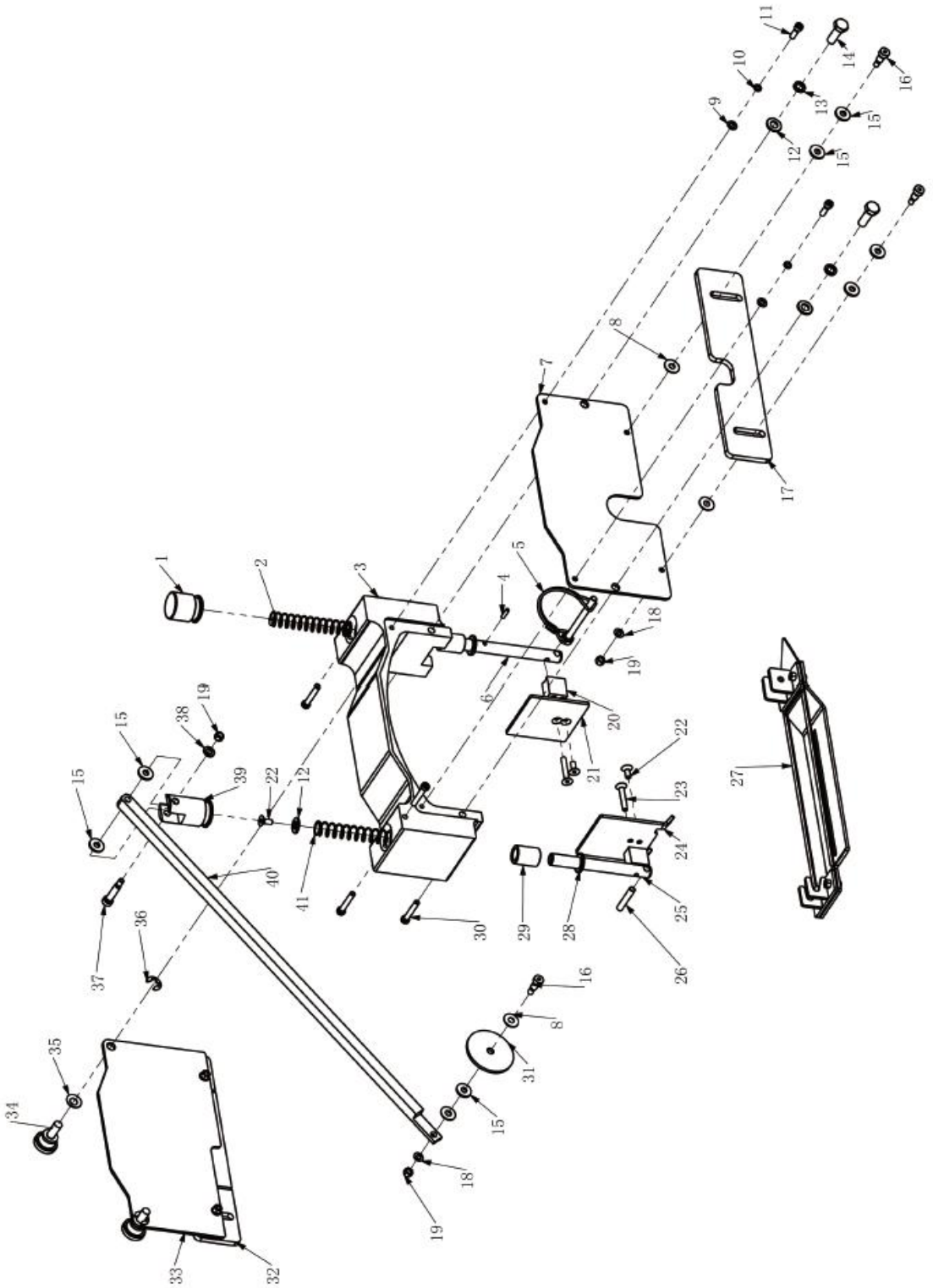

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BLADE COVER SYSTEM

No.	Description	Drawing No.	Qty
1	Rare Cap, Rod	1906-00039-1	1
2	Spring (Short)	1906-00035-4	1
3	Blade Cover	1906-00041-1	1
4	Spring Pin Φ3x12	19031201	1
5	D Pin	1906-00014-4	1
6	Rare Rod	1906-00043-1	1
7	Inner Shield	1906-00030-2	1
8	Spacer	1906-00015-4	6
9	Washer M5	11050010	2
10	Spring Washer M5	12050010	2
11	Allen Screw M5x16	16051620	2
12	Washer M8	11080000	3
13	Spring Washer M8	12080000	2
14	Bolt M8x25	15080250	2
15	Spacer	1906-00001-4	11
16	Bolt M5xΦ6x10	16051010	5
17	Inner Plastic Shield	1906-00046-4	1
18	Washer M5	11050000	5
19	Lock Nut M5	13050001	6
20	Spacer, Front Shield	1906-00013-2	2
21	Front Shield	1906-00018-2	1
22	Allen Screw M5x12	16051204	3
23	Allen Screw M5x30	16053004	2
24	Front Shield	1906-00018-2	1
25	Front Rod	1906-00031-1	1
26	Pin Φ6.35x32	1906.353202	1
27	Skid	1906-03000-4	1
28	Sealing M12	14120002	2
29	Bushing	1906-00024-1	2
30	Allen Screw M5x30	16053020	5
31	Guide Wheel	1906-00047-4	1
32	Outside Plastic Shield	1906-00034-4	1
33	Outside Shield	1906-00040-4	1
34	Bolt M8x20	16082008	2
35	Wave Washer M8x16x0.8	14080001	2
36	Circlip Φ6	18060003	2
37	Shoulder Screw M5xΦ6x25	16052510	1
38	Washer M6	11060010	1
39	Front Cap, Rod	1906-00021-1	1
40	Pointer	1906-00022-1	1
41	Spring (Long)	1906-00016-4	1

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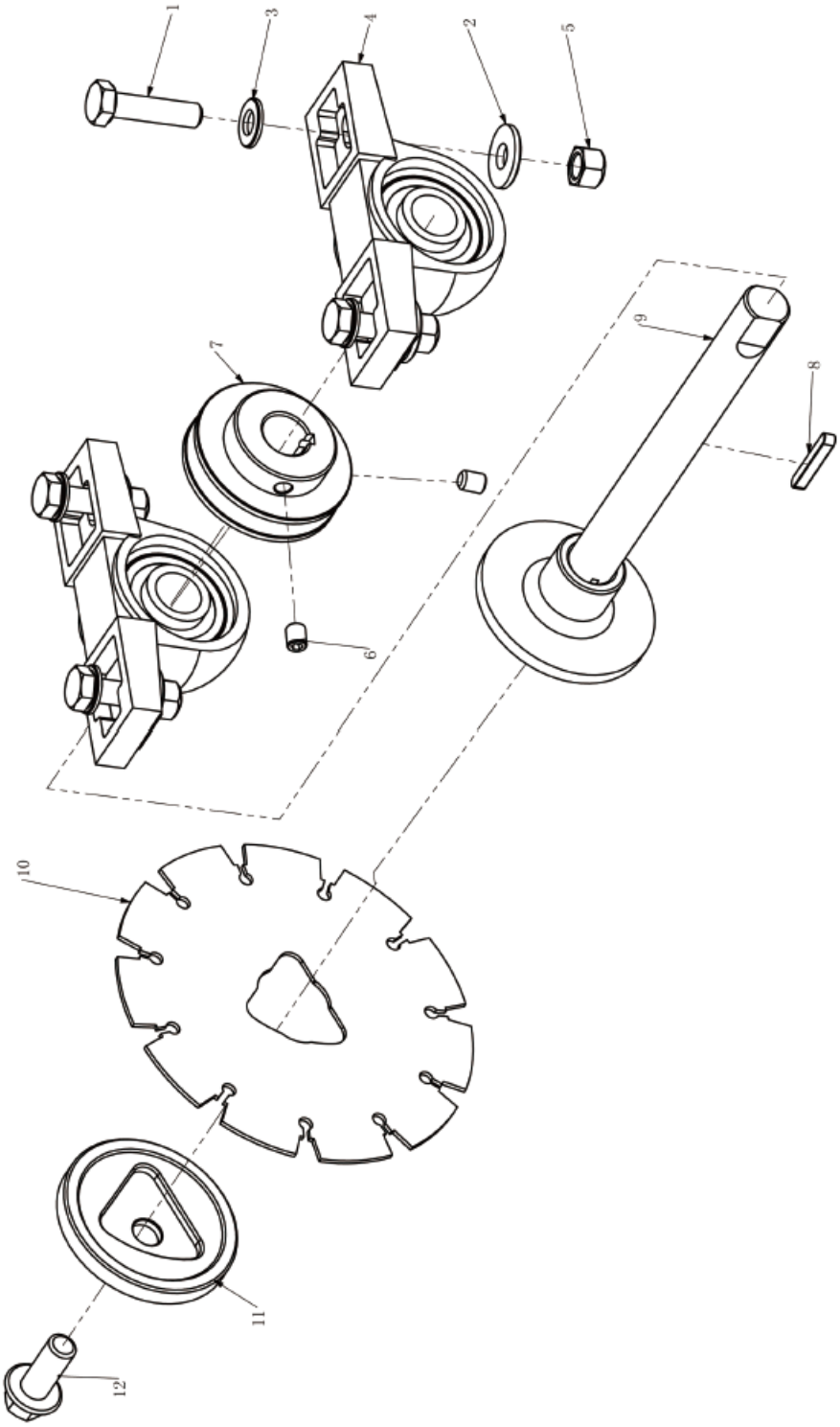

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BLADE SHAFT ASSEMBLY

No.	Description	Drawing No.	Qty
1	Bolt M10x40	15100400	4
2	Washer M10x25x3(10x26x3)	11102503	4
3	Washer M10	11100000	4
4	Bearing UCP204	21UCP204	2
5	Lock Nut M10	13100001	4
6	Set Screw M8x10	16081005	2
7	Driven Pulley	1906-00006-4	1
8	Key 5x35	12050535A	1
9	Blade Shaft	1906-04000-3	1
10	Blade 8"	1906-00050-4	1
11	Flange (Outside)	1906-00036-1	1
12	Bolt M12x30	15123002	1

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2001/95/EC General Product Safety Directive
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LVD2014/35/EU Low Voltage Directive
2004/30/EU Electromagnetic Compatibility

Responsible Technical File : Chris Livingston for
Beton Trowel BV
Nijverheidsstraat 11
B-1840 Londerzeel
Belgium
Tel 0032 52315350
Fax0032 52303739
01/08/2025