

OPERATING & PARTS MANUAL

BTSP8H – BTSP8E













SAFETY PRECAUTIONS	
	<p> DANGER</p> <p>EXPLOSION HAZARD Never operate the machine in an explosive atmosphere, near combustible materials or where ventilation does not clear exhaust fumes.</p>
	<p> WARNING</p> <p>BURN HAZARD Never come into contact with the engine or muffler when engine is operating or shortly after it is turned off. Serious burns may occur.</p>
	<p> CAUTION</p> <p>MOVING PARTS Before starting the machine ensure that all guards and safety devices are in place and functioning properly</p>
	<p> CAUTION</p> <p>MACHINE DAMAGE Advance cutter depth in small increments to avoid premature blade wear or damage.</p>
	<p> ATTENTION</p> <p>READ OWNERS MANUAL Read and understand operator's manual before using this machine. Failure to follow operating instructions could result in serious injury or death.</p>

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QUALITY ASSURANCE / MACHINE BREAK IN

The Beton Trowel nv Surface Preparation System is the product of extensive engineering development designed to give long life and unmatched performance. The SPS's are shipped completely assembled with the exception of attaching the handle, and only require filling with fuel and a brief check of lubricant levels in preparation for operation.

You can help ensure that your Surface Preparation machine will perform at top levels by observing a simple routing on first use. Consider that your new SPS 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 nv Surface Preparation System and wish you many years of satisfied use.



SURFACE PREPARATION SYSTEM WARRANTY

Beton Trowel nv agrees to furnish without charge, F.O.B. our plant, a replacement for any part or portion thereof, Beton Trowel nv SPS Machine, save and except, all cutting tools and holders, drive belts, power units, and/or electrical controls which prove upon our examination, to be defective in either material or workmanship within a period of 90 days from date of purchase, provided that notice of such defective part or portion thereof is given to Beton Trowel nv Ltd. within the said period of 90 days. No further or other guarantee or warranty expressed or implied in connection with the sale of the SPS Machine is given and our sole liability consists in replacing defective parts or portions aforesaid. We shall not be responsible for any special, indirect or consequential damages arising in any manner whatsoever.

This guarantee is for the sole benefit of the original purchaser. Our responsibility under this guarantee ends in the case the original purchaser transfers ownership of the SPS Machine, makes any changes or adds any parts or devices not of our manufacture to the SPS Machine.

Routine Service Intervals		Each use	After 1.5 months or 50 hrs	Each 3 months or 100 hrs	Each 6 months or 200 hrs	Each 9 months or 300 hrs	Each 12 months or 400 hrs
General Inspection:							
Guards	Check		0	0	0	0	0
Warning stickers	Check		0	0	0	0	0
Wheels	Check operation	0	0	0	0	0	0
Test run	Check operation		0	0	0	0	0
Engine							
Engine oil	Check level	0	0	0	0	0	0
	Change		0		0		0
Engine oil filter	Replace				0		0
Oil cooler	Clean			0	0	0	0
Cooler Fins	Clean		0	0	0	0	0
Air cleaner	Check – clean	0	0	0	0	0	0
	Replace						0
Air Intake Line	Check				0		
	Replace						2 yrs
Fan Belt	Check tightness				0		0
	Replace						500 hrs
Valve clearance	Check-adjust				0		0
Fuel filter	Check & clean			0	0	0	0
	Replace				0		0
Fuel Tank	Clean						500 hrs
Engine Wiring	Check						0
Cage:							
Teeth: (see individual Cage for specifications)	Check wear	0	0	0	0	0	0
	Change						
Shaft: (see Individual Cage for specifications)	Check wear	0	0	0	0	0	0
	Change						

Routine Service Intervals

The machine is generally run in very dusty conditions. Engine life will be extended by maintaining a clean engine and using a proper dust control system. Keep the air filter clean at all times. Wash the element in a non-oil based solvent. Squeeze out any residue and allow the filter to dry before reinstalling the air cleaner. Some general maintenance guidelines will extend the useful life of your trowel.

- The initial service for your SPS Machine should be performed after 25 hours of use, at which time your mechanic (or authorized repair shop) should complete all of the recommended checks in the schedule above. The chart on page 6 (six) is handy for keeping a record of the maintenance performed and the parts used for servicing your trowel.
- Regular service according to the schedule above will prolong the life of the surface preparation system and prevent expensive repairs.
- Keeping your SPS Machine clean and free from debris is the single most important regular maintenance operation, over and above the checks in the service schedule above, that can be performed. After each use your SPS Machine should be cleaned to remove any dust and debris from the undercarriage and surrounding components. Use of a power washer will make clean up quick and easy, especially if a nonstick coating was applied prior to use.
- In the Service Schedule above, items that should be checked, replaced or adjusted are indicated by “o” in the appropriate column. Not all SPS models include the same features and options and as such not all service operations may have to be performed. For ease of recording place a checkmark (V) through the “o” when the item is complete. If an item is not required or not completed place an “x” through the “o” in the box.
- All SPS Machines have governed engine speed of 3600 rpm. See engine manufacturer’s manual for exact specifications. Care should be used when making any adjustments to the SPS Machine not to change the governed speed. Running the engine at lower rpm’s will cause the cutters to skip over the surface rather than cut into it. It will create excessive “out-of-synch” vibrations resulting in poor surface results, handling, maneuverability, and discomfort to the operator.
- Failure to have your Surface Preparation System regularly serviced and properly maintained in accordance with the manufacturer’s instructions will lead to premature failure and void the warranty.

FOREWORD

It is important that the following information be read carefully in order that the operational characteristics and performance of the Surface Preparation System be fully understood. Proper adherence to operation and maintenance procedures will ensure long life and top performance of your equipment.

SAFETY PRECAUTIONS

- Always keep unauthorized, inexperienced, untrained people away from this machine.
- Rotating and moving parts will cause injury if contacted. Make sure guards are in place. Keep hands and feet away from moving parts.
- Fuel the machine only when the engine is stopped, using all necessary safety precautions.
- The engine must always be stopped before attempting any repair or adjustments. Ignition switch should be off. **Danger: Never operate the machine in an explosive atmosphere, near combustible materials or where ventilation does not clear exhaust fumes. Repair fuel leaks immediately. Refer to your engine owner's manual for more safety instructions.**
- Be careful not to come in contact with the muffler when the engine is hot, serious burns may result!
- Do not run the air motor without sufficient oil in the lubrication system. The lubricant levels should be checked regularly on gas and air powered units. Refer to manufacturer's manual for amounts.
- Before starting you SPS machine, always raise the cutter cage assembly using the hand knob adjustment, so that cutters do not contact the surface.

OPERATING PRINCIPLE

The SPS employs a belt-pulley drive, for the cages which contact the surfaces to be prepared. The hand knob adjustment allows the cages to be raised or lowered as necessary to perform efficient work. The vibration isolators on the bridge make it easier on the operator and the machine, while the hexagonal drive bearing produces more positive cutter engagement. A dust control vacuum should be used to provide a clean work area.

The SPS Machine is designed to run at an engine speed (engine take off shaft) of 3600 rpm. (normally considered full throttle).

Never force the cutter head into the surface to a

WORKING WITH THE SPS

We have found that working the machine in a figure "8" pattern, when milling misaligned concrete slabs or joints will produce more aggressive removal of material.

The

cutters will work against the cut and tend to produce more consistent and faster removal of material. Moving the machine in a straight line tends to create grooves that the cutters will follow. The Tungsten Carbide Tipped

cutters produce the longest life in milling applications and should be considered as the best choice, in spite of the higher initial costs. Your time is valuable and when you have to change cutters or even cutter assemblies you are not using the machine to make money.

When using the SPS to mill concrete, work the left side or belt guard side, riding on the high side of the cut, if possible. This will avoid the possibility of the drive pulley engaging the work surface. Regularly check that the drive pulley is aligned properly and secured to the drive shaft.

When using any Cutter Cage Assemblies, there will be variations in the floor. The depth of cut should be adjusted with the hand knob to maintain an equal penetration of the work surface.

Grooving set ups are possible with the SPS in as many configurations as you need. The normal set up of the R123 uses cutters spaced with 1" centers, braced by tension springs. They could also be set up with other centers, but bear in mind that they must always be tensioned to maintain the path you require.

Checkerboard effects are possible by working the machine at 90° to the path first established.

When using the Edger attachment for crack chasing, try the following method. Mark the front of the edger with a chalk guide line to correspond to the starting point of the crack. Lower the head into the crack and push the machine forward along the fault line using the chalk mark as the steering guide. Using carbides gives the longest life, but B-2 and B-3 cutters may also be used in the set up. Always tension the cutters in the cage with spring load to maintain a consistent path.

point where the machine starts to bounce. This will minimize results and do more damage to the machine than the work surface. Let the cutters do the work, but make sure you have the best cutter/cage assembly for the job.

CUTTER LIFE

How long cutters and cages last on a particular job is a difficult thing to predict. There are a number of variables involved which must always be considered. How old/hard is the material you are working with? Are there any hardeners or additives that will slow you down? Are you forcing the cage into the surface? Is the equipment properly maintained? Is the operator familiar with the machine and its capabilities? Do you have the proper cutter/cage set up for the application?

There are additional cutters and cages to those below, but this is a fair representation of estimated rates for production and cutter life. We preset them as a guide only, due to variables such as above

ASSEMBLY INSTRUCTIONS

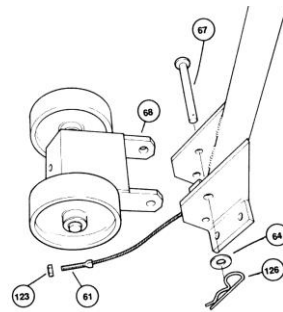
Your new Surface Preparation System has been shipped to you fully assembled with some exceptions. Gas powered units require only filling with fuel and a brief check of lubricant levels in preparation for operation. Engine crank case is not pre-serviced with oil at the factory: levels should be checked. Electric Power Units are pre-wired at the factory and require only

properly sized extension cable and fusing to comply with local by-laws.

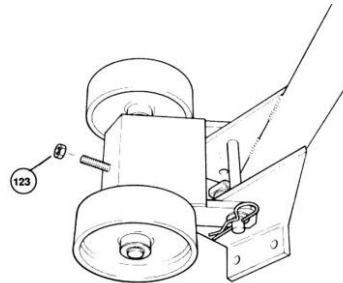
To facilitate assembly of handles for various models together with the respective kill switch, electric harness or air valve, see the appropriate section for your machine.

1) HANDLE INSTALLATION

- a. Remove the pin (67) from the handle assembly. Align the lift plate (68) and re-insert the top pin (67). Place flat washer (64) on pin. Insert spring clip (126) through hole in pin. Feed threaded bolt end of cable (61) through hole on lift plates

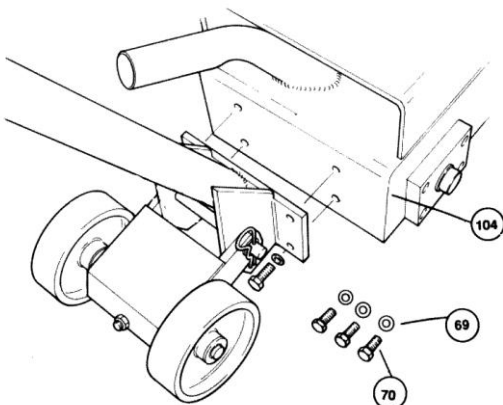


- b. Tighten cable by attaching nut (123)



ASSEMBLY INSTRUCTIONS (Cont.)

c. Remove the four bolts (70) and lock washers (69) from machine housing (104). Match up the holes on the handle assembly to the machine housing and insert the bolts (70) and the washers (69). Tighten bolts corner-to-corner. Before final tightening, place the machine on a flat surface to ensure all wheels contact the surface.



2) EDGER INSTALLATION

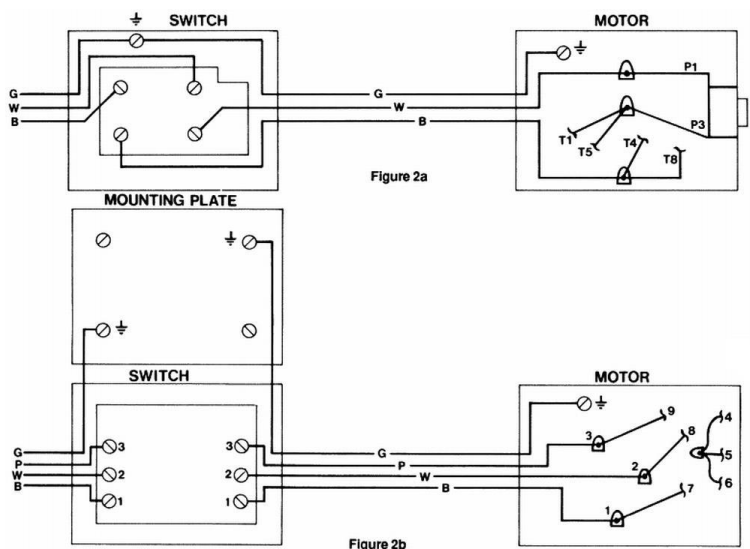
Make sure that the power source is disconnected; unplug the electric unit; disconnect spark plug and turn off fuel supply on gas unit; disconnect air supply on air unit.

1. Tilt machine back onto handle (if your unit is equipped with a Honda GX engine, unit must be tilted forward or cylinders will be flooded with oil).

2. Remove cutter cage and retainer shaft.
3. Facing underside of machine, slide dummy shaft (110) through outboard bearing on left side (if engine is a Honda GX this will be on the right side of the housing).
4. Slide retainer shaft (108) through edger cage. The roll pin in the shaft head should fit into the slot on the end plate of the cage.
5. Slide retainer shaft through the outboard bearing and the dummy shaft.
6. Using a 15/16" socket or wrench tighten the retainer shaft by turning counter clockwise.
7. Install edger housing (106) using the three bolts supplied (107).
8. NOTE: Edger operation is not to be performed with main SPS cage in place.

3) STOP-SWITCH INSTALLATION

- a. On gas powered models, feed the attached stop wire under the bridge and through the circular hole on the machine housing, from below engine, up to attached terminal on the engine. Secure it to the terminal by clamping with a pair of pliers.
- b. On electric models, attach bracket to the handle with screws and lockwashers provided. Wiring diagrams shown are for reference only: Figure 2a is for 220 volt and figure 2b is for 440 volt



STARTING PROCEDURE (GAS OPERATED):**14B* WARM CLIMATE**

IMPORTANT: Set the machine in an upright position and adjust the cutter cage to maximum height by turning the height adjustment knob (51) to its farthest position. (This will ensure clearance for the rotation cage.)

Open fuel valve on gas tank. Set throttle lever to "Fast" idle position, set choke to closed position, start engine. Open choke slightly to prevent flooding. Move to "Open" or "Run" position when engine is warm, increase throttle to maximum operation position (3600 rpm).

STARTING PROCEDURE (GAS OPERATED):*** COLD CLIMATE**

With the machine in upright position, follow same procedure as above but allow longer warm-up period – 3 to 5 minutes. In cold weather, oil is much heavier to move and requires more time to work its way into the moving parts. If maximum power is not attained, allow further warm-up time. Fill fuel tank with clean gasoline, use safety approved gas containers. **DO NOT MIX OIL WITH GASOLINE (USE UNLEADED GAS ONLY.)**

STARTING PROCEDURE (ELECTRIC):

With the cage in maximum raised position, plug in power cord to power source. Press the start button. Run-in for two (2) minutes. Press the stop button, then re-start. Ensure your cable is of sufficient size to run the motor properly. (14/3 type S for 220 volt; 16/3 type S for 440 volt.)

STARTING PROCEDURE (AIR):

With cage in maximum raised position, attach air supply (minimum 90 C.F.M. at 90 P.S.I.) turn quick opening valve on. Run in for two (2) minutes. Turn off valve, then restart. The air regulator is equipped with a pressure gauge. The recommended operating pressure is 90 P.S.I. at 90 C.F.M.; however when the unit is running with no load (cutters not engaged) the gauge will read 40 P.S.I. When the cutters are engaged the indicator needle should rise to 90 P.S.I.

STOPPING PROCEDURE:

With machine in upright position, adjust the cutter cage to maximum height by turning the height adjustment knob (51) to its farthest position. (This ensures clearance for the rotating cage.)

GAS UNIT – Stop engine by depressing kill switch button (53) located at top of handle.

AIR UNIT – Turn off air supply valve (25).

ELECTRIC UNIT – Turn off switch on handle (11).

MAINTENANCE

The SPS Machine is generally run in very dusty conditions. Engine life will be extended by maintaining a clean engine and using a dust control system. See owner's manual for a complete maintenance schedule.

AIR CLEANER (GAS UNIT) - Keep air filter clean at all times. Wash away dust and debris using a non-oil based cleaning solvent. Let the filter dry before reinstalling.

MAINTENANCE (Cont.)

LUBRICATION – Always check engine oil regularly. Use proper engine oil as recommended. See chart below. Fill crankcase to levels as recommended in manufacture's engine manual.

SPARK PLUG (GAS UNIT)– Check and clean spark plugs regularly. A fouled, dirty or carboned spark plug causes hard starting and poor engine performance. Set spark plug gap to recommended clearance. Refer to engine manual.

BELT TENSION – IMPORTANT!

If there is excessive belt play, there will be a decrease in the cutting/grinding action, which could cause cage and machine damage. The normal belt play should be 3/8" to 1/2" which is attained by depressing the top section of the belt at the belt guard mounting bracket location. When adjusting the belt make sure that the drive pulley is in alignment with cage pulley. Tighten all engine mount bolts, adjust the two engine-stop bolts, and tighten lock nuts.

DRIVE SHAFT – Keep a coating of grease on the drive shaft and threads for easy installation or removal and longer bushing life.

SPOT CHECKS – Perform as required. Machine should be inspected with ignition in "OFF" position or power disconnected. Do not perform inspections while machine is running.

- Check all fasteners for tightness – machine is subject to vibration.
- Check "V" belt for wear; adjust or replace as required.
- Check that wheels are clean and rotation freely.
- Check that inside of housing is clean; remove any build-up as required.
- Check that pulleys are aligned properly to ensure that "V" belt is running true. (i.e. not at an angle.)

BEARING REPLACEMENT PROCEDURES

IMPORTANT: Disengage power supply. Do not attempt replacement while machine is operable.

A) SEALED BEARING REPLACEMENT – OUTBOARD SIDE

Remove drive shaft and cutter cage assembly as per cutter change procedure below. Loosen and remove bearing block flange by removing screws and lockwashers. Using a soft drift, drive out and remove old bearing. Clean parts which will be re-used. Carefully press new bearing into flange. Take extreme care to maintain aligned installation. Do not press sleeve into position if misaligned. Mount bearing block to side of housing and tighten bolts when bearing block is in a free spin position.

B) BEARING REPLACEMENT – DRIVER OR “V” BELT SIDE

Remove belt guard and “V” belt. Loosen two set screws, remove pulley and remove key. Remove bearing block assembly by removing screws and lock washers. Remove snap ring and slip ring. Using a soft drift, drive out spindle. Take care not to burr or flare out spindle. Remove cover plate being certain the plate fits flush. Carefully press new bearing into block, clean and install bearing cover plate. Press drive spindle into block. Install slip ring and snap ring. Center and install spindle assembly to housing. Reinstall pulley and key. Ensure pulley butts flush against shoulder or spindle. NOTE: When removing spindle or sleeve, care must be taken not to damage or distort these parts. A soft drift is recommended to prevent damage.

CUTTER CAGE REMOVAL & CUTTER CHANGE

To remove the cutter cage from the machine.

1. Make sure that the power source is disconnected. With gas models turn off fuel supply to engine and disconnect sparkplug; unplug electric unit; disconnect air supply on air unit.
2. Tilt machine back onto the handle. (If your unit is equipped with a Honda GX engine, unit must be tilted forward to change cutters or cylinders will be flooded with oil)

CUTTER CAGE REMOVAL & CUTTER CHANGE (Cont.)

3. Facing the underside of the machine housing (figure 3-A) place a bar between the cutter rods to jam cage C.
4. Remove end cap and with a 1” (26 mm) socket loosen and remove the shaft by turning in clockwise direction.
OR
Remove end cap and shaft guard to insert a drift pin into the hole on the main shaft B and turn shaft clockwise to loosen and remove shaft.
5. Disengage the cage from the drive pins by moving to the left. (The cage on the Honda GX machines will move to the right). Remove cage.

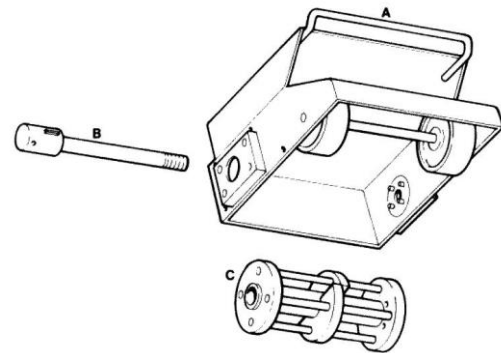


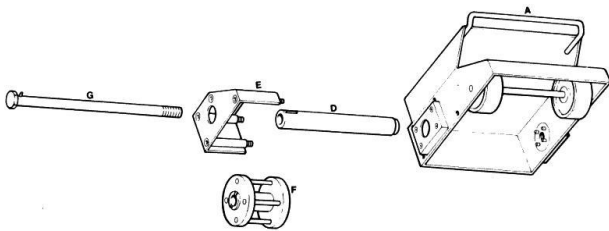
Figure 3-A

EDGER CAGE REMOVAL

1. Make sure that the power source is disconnected. With gas models turn off fuel supply to engine and disconnect sparkplug; unplug electric unit; disconnect air supply on air unit.
2. Tilt machine back onto handle. (If your unit is equipped with a Honda GX engine, unit must be tilted forward to change cutters or cylinders will be flooded with oil).
3. Using a 15/16” socket or wrench, turn head of shaft (G) clockwise to loosen.
4. While turning the shaft outwards, cage will move towards the outer edge as well. Free cage from locking pins on shaft by pushing cage back towards main housing (A). turn shaft out and move.
5. Cage will be free to remove from edger.

CHANGING CUTTERS/SHAFTS

Once the cage has been removed use a 5/32" Allen Key and 7/16" open end wrench, remove screws and cover plate from cage. With drift pin tap rods from the drive side until free of cage. Replace cutters or shafts as required. Replace cover plate. To re-install cutter cage in machine, reverse procedure for removal. Ensure that the shaft is tight.



STORAGE - Before

The following steps should be taken to prepare your SPS gas unit for extended storage.

1. Close fuel shut off valve.
2. Remove excess gasoline from tank.
3. Start engine until it stops from lack of fuel. This will use up all the fuel in the carburetor and prevent formation of deposits due to evaporation of fuel.
4. Remove spark plug and pour 2 oz. of SAE-30 or SAE-40 motor oil into the cylinder. Slowly crank the engine 2 or 3 times to distribute the oil throughout the cylinder. This will help prevent rust during storage. Replace spark plug.
5. Store the unit in an upright position in a cool, dry, well ventilated area.

STORAGE - After

The following steps are recommended to ensure a smooth, proper startup after a prolonged storage.

1. Refuel
2. Open shut off valve
3. Start engine. Any excess oil residue will quickly burn off without harming operation.

Season Temperature
All Seasons

LUBRICATION

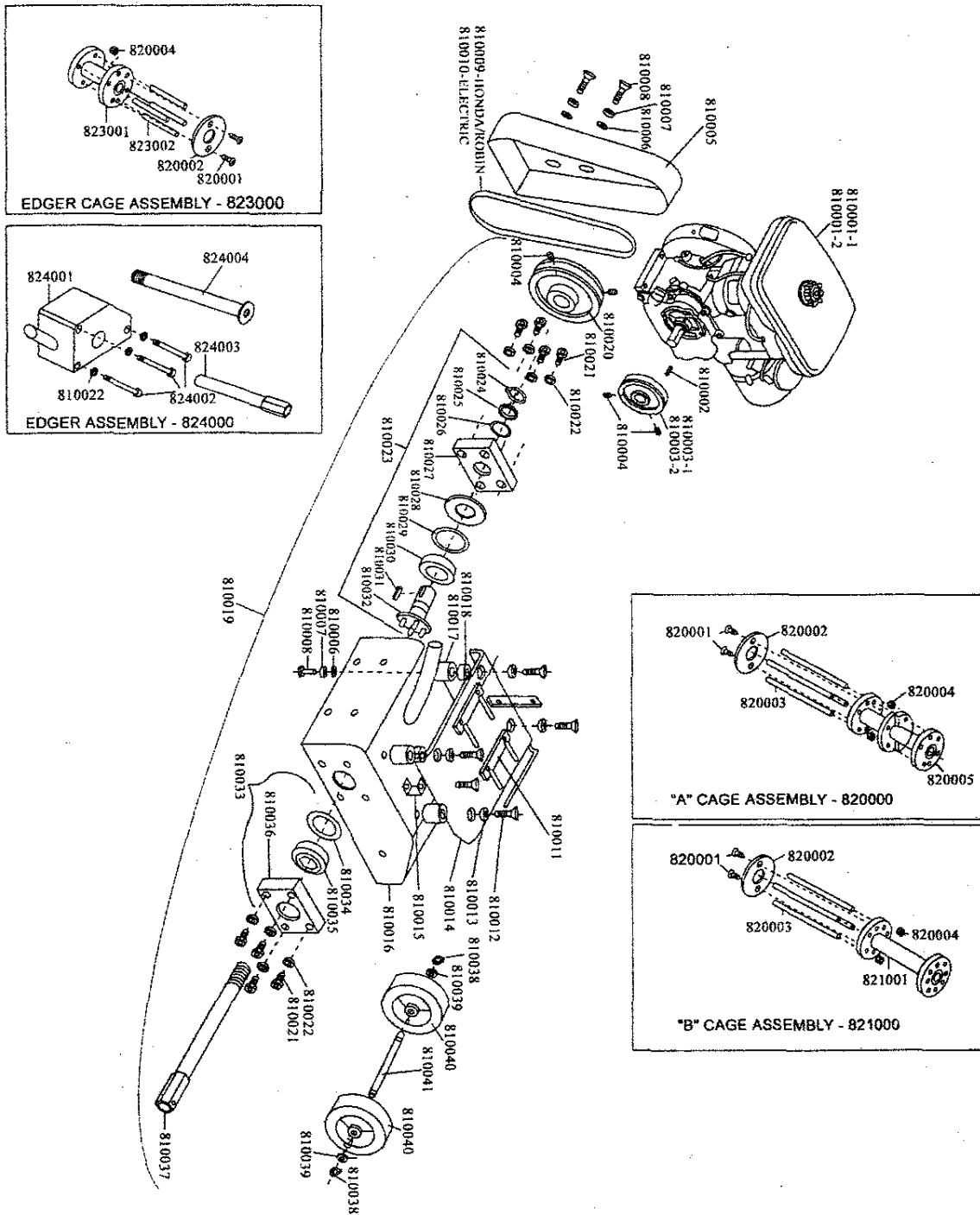
ENGINE OIL

Always check engine oil before starting and at regular intervals thereafter. Use proper engine oil as recommended – see chart below. Keep engine oil clean, change accordingly. Fill crankcase to levels as recommended in manufacturer's engine manual.

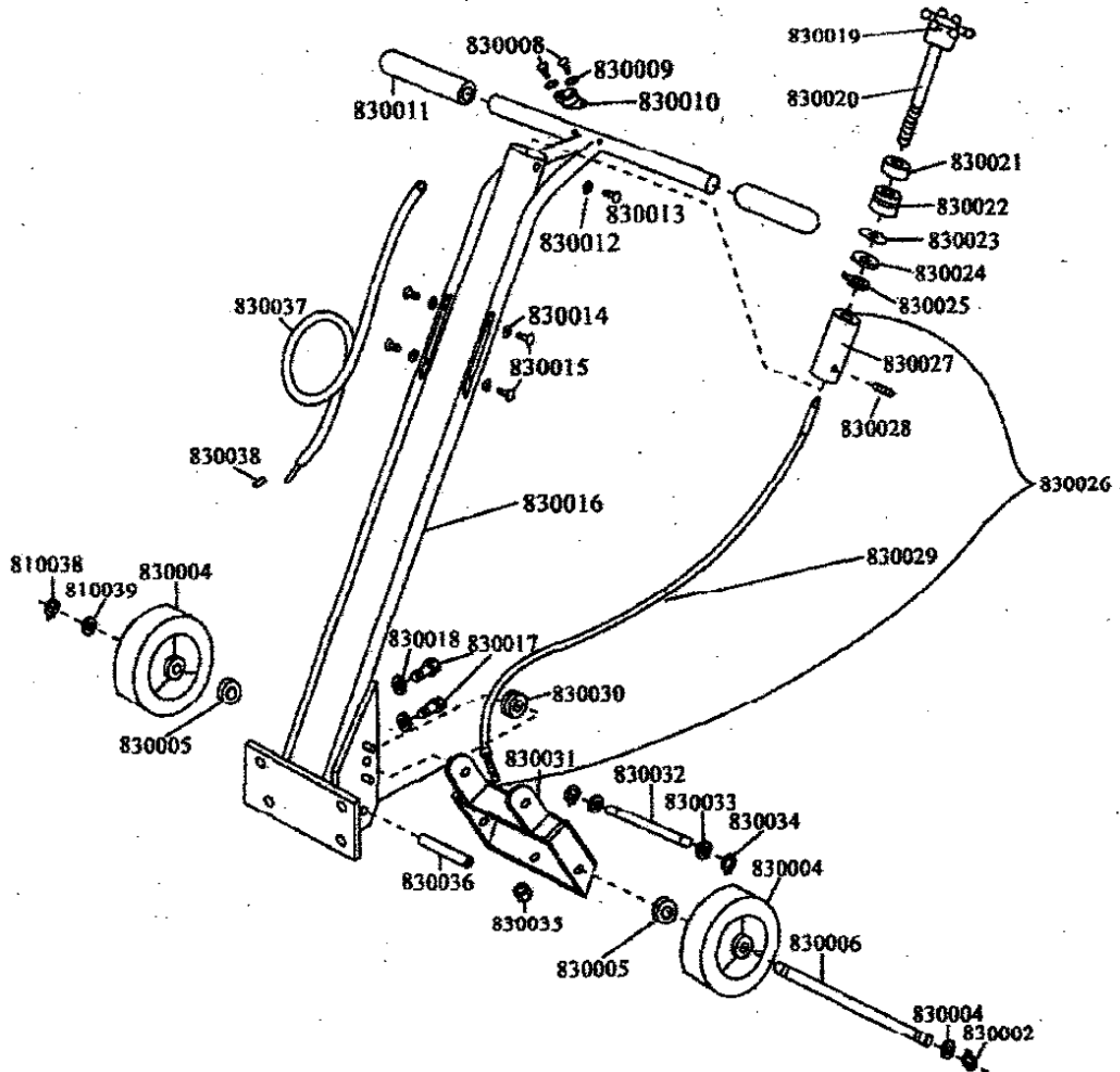
Grade of Engine Oil
SAE 10W - 30

ASSEMBLY DRAWINGS AND PARTS LIST





PARTS LIST 1



PARTS LIST 2

Parts list 1

PART NO.	DESCRIPTION	QTY
810001-1	ENGINE HONDA 5.5HP	1
810001-2	ENGINE ROBIN 5.0HP	1
810002	KEY 3/16" SO X 1 1/2"	1
810003-1	PULLEY FOR HONDA	1
810003-2	PULLEY FOR ROBIN	1
810004	SET SCREW	4
810005	BELT GUARD	1
810006	WASHER	4
810007	LOCKWASHER	4
810008	SCREW	4
810009	BELT	2
810010	BELT-ELECTRIC	2
810011	SLIDER NUT	2
810012	SCREW	4
810013	LOCKWASHER	4
810014	ENGINE MOUNTING PLATE-GAS	1
810015	GROUND STRAP	1
810016	HOUSING	1
810017	RUBBER ANTIVIBRATION MOUNTS	4
810018	SPACER	4
810019	CAGE HOUSING ASSM	1
810020	PULLEY	1
810021	SCREW	8
810022	LOCKWASHER	8
810023	END FLANGE ASSM	1
810024	SNAP RING	1
810025	RING SPACER	1
810026	FELT WASHER SM.	1
810027	DRIVE FLANGE	1
810028	BEARING COVER PLATE	1
810029	FELT WASHER LG.	1
810030	BEARING	1
810031	KEY	1
810032	DRIVE SPINDLE	1
810033	DRIVE FLANGE ASSM	1
810034	FELT WASHER	1
810035	BEARING HEX ID	1
810036	END CAP FLANGE	1

810037	HEX DRIVE SHAFT	1
810038	SNAP RING	2
810039	FLAT WASHER	2
810040	FRONT WHEEL	2
810041	FRONT AXLE	1
820000	"A" CAGE ASSEMBLY	1
820001	SCREW	2
820002	SHAFT RETAINING PLATE	1
820003	CUTTER SHAFT	4
820004	LOCKNUT	2
820005	TYPE "A" CAGE	1
823000	EDGER CAGE ASSEMBLY	1
820004	LOCKNUT	2
823001	EDGER CAGE	1
823002	EDGER SHAFT	4
820002	SHAFT RETAINING PLATE	1
820001	SCREW	2
821000	"B" CAGE ASSEMBLY	1
820001	SCREW	2
820002	CAGE RETAINING PLATE	1
820003	CUTTER SHAFT	4
820004	LOCKNUT	2
821001	TYPE "B" CAGE	1
824000	EDGER ASSEMBLY	1
824001	EDGER GUARD	1
810022	LOCKWASHER	3
824002	BOLT	3
824003	EDGER GUARD	1
824004	EDGER DRIVE SHAFT	1

Parts list 2

PART NO.	DESCRIPTION	QTY
810038	SNAP RING	2
810039	FLAT WASHER	2
830004	WHEEL	2
830005	WHEEL BUSHING	4
830006	REAR AXLE	1
830008	SCREW	2
830009	STAR WASHER	2
830010	STOP SWITCH	1
830011	HANDLE GRIPS	2
830012	LOCKWASHER	1
830013	SCREW	1
830014	STAR WASHER	4
830015	SCREW	4
830016	HANDLE	1
830017	SCREW	4
830018	LOCKWASHER	4
830019	HAND KNOB	1
830020	SCRE SHAFT	1
830021	BEARING	1
830022	BUSHING	1
830023	WAVE WASHER	1
830024	WASHER	1
830025	RETAINER	1
830026	CABLE ASSM	1
830027	SLIDE BUSHING	1
830028	PIN	1
830029	CABLE	1
830030	PULLEY	1
830031	LIFT PLATE	1
830032	PIN-LIFT PLATE	1
830033	FLAT WASHER	2
830034	SNAP RING	2
830035	LOCKNUT	1
830036	SPIRAL PIN	1
830037	WIRE ASSY	1
830038	TERMINAL SPLICE	1

Declaration of Conformity / Certificat de conformite / Gelijkvormighheids certificaat / Declaracion de Conformidad / Declaracao de Concomidade / Dichiarazione Di Conformita

Model : BTSP8H – BTSP8E

We Beton Trowel NV

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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C.J.Livingston – Managing Director
28th May 2016