

### **INSTRUCTION MANUAL**

# RIDE ON POWER TROWEL BT750-2PFH13 Low rider



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Use this guide along with the parts lists attached to locate and identify components of your trowel. 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 Beton Trowel Ride-on Trowel is the product of extensive engineering development designed to give long life and unmatched performance. Once machines are fully assembled, a run-in test is performed to ensure quality standards of the highest level. A series of operational tests are conducted on concrete, incorporating a phase of operations at 1/2 to 3/4 throttle and a final run phase at full throttle for a minimum of 20 minutes.

You can help ensure that your Ride-on will perform at top levels by observing a simple routing on first use. Consider that your new Ride-on Trowel 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 Ride-on Trowel and wish you many years of satisfied use.



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#### **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 key 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!
- ❖ Always operate the machine in a seated position to maintain machine balance.
- The transporter is designed for moving the unit around the job site only. It is not to be used for towing the Ride-On unit off-site.
- ❖ When starting the trowel, do not exceed the ¼ throttle position as recommended. A higher setting could cause the centrifugal clutch to engage, turning the trowel blades.
- ❖ Be careful with the trowel around stub pipes or other obstructions on the floor. Should the machine catch, or hit such an obstruction, serious damage may result to the machine, or operator may be thrown from the machine.
- Excess surface water may result in sudden loss of control of steering.
- Disconnect battery before attempting any electrical maintenance.
- ❖ Ensure that the electrical dead-man switch, located on the right hand steering lever is operating. Placing your right hand on the steering lever will engage the safety switch. Removing your hand from the Lever will disengage the safety switch and stop the engine. The engine will not start unless the safety switch is depressed. This safety feature must be used as designed



#### **Assembly Instructions**

#### 1 Battery - Shipped dry - No acid

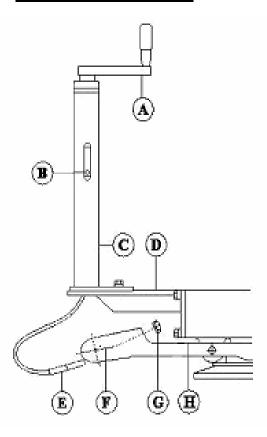
Connect and secure the battery cables before attempting starting procedures.

#### 2 Steering handle assembly

The steering handles are shipped ready to connect.

Position the handles over the handle sleeves so that the set-screws (2 per handle) are lined up with the tapped holes on the sleeves. Tighten the set-screws and test the mobility of the handles.

#### 3 Pitch control Assembly



Bolt pitch control tube (C) to pitch control bracket (D) with bolts provided. Put cable end (E) through yoke arm (F) and secure with nylon insert locknut (G). For proper cable adjustment, turn crank (A) counterclockwise to the stop position. Tighten nut (G) until all slack in the cable is removed. If more than 2 or 3 threads show through the nut, it should be turned back and the guide screw (B) moved to the next lower hole. Tension in the cable should then be readjusted. After adjusting tension, turn hand crank full clockwise (ABOUT 24 TURNS) and check for clearance between the yoke arm (F) and the gear box at point (H). There should be enough space to pass a business card through but not more than 1/8 inch.

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#### 4 **Seat Assembly**

Remove protective wrapping from seat. The seat is now ready to secure to the frame using included washers and hex nuts. If the seat adjuster is ordered, the slider bars must be positioned between the seat and the frame using included screws to secure the seat to the sliders, and then securing the sliders to the frame as indicated above.

#### 5 **Transporter Assembly**

The components of the transporter (handle, frame, wheels, and parts bag) are shipped separately, requiring some assembly. Extend the handle outside the frame. Slide the handle along the frame cross-bar to align the hole on the handle with the hole on the "U" frame. Insert the large hitch pin (part #12487) through the hole to secure the handle to the "U" frame. Position one of the wheels on the axle and secure in place by inserting pin (part #10315) into the hole on the end of the axle. Repeat procedure for the other wheel.



CAUTION: The transporter is designed to be used on the job site only. Do not use the transporter to tow the machine off-site.

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#### **Operating Instructions**

#### 1 Starting procedures – warm temperatures

- Prior to starting the trowel, check the engine and gearbox oil levels. Be sure the fuel tank is full.
  - Fuel is not shipped with the unit. Before attempting to start, fill the fuel tank. Check engine and gearbox oil levels. WARRANTY IS VOID IF RUN WITHOUT OIL. Fill tank with safety approved fuel containers. DO NOT MIX OIL WITH FUEL.
- Maintain contact with the dead-man safety switch. Engine will disengage and stop if safety switch is released. Do not tape, tie-down, or otherwise attempt to bypass safety device.
- Turn ignition key all the way. Allow engine to warm up before proceeding with full trowel operation.

#### 2 Starting procedures – cold temperatures

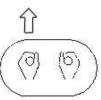
Follow same procedure as above but allow for a longer warm up period 3-5 min. (In cold weather oil is much heavier to move. Extra time is required to heat the oil.)

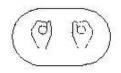
#### 3 To Stop engine

- Bring throttle to low idle, wait a few seconds.
- \* Remove left foot from dead-man safety switch.
- Turn off ignition key.



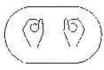
#### 4 Steering















C-CLOCKWISE

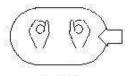
machine on a finished section of the floor, with the blades in a flat position, and the engine at a low revolution to gain the necessary feel for the steering.

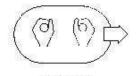
figure 2a below. Test the

Guiding the machine on the slab is quite simple but does

controls respond as shown in

require some familiarity before actually working with the machine. The





LEFT

right

For straight line movement, move both handles as one in the direction you wish to travel. Move the handles in opposite directions to produce rotation on the machines axis. Left handle forward, right handle backward for clockwise rotation. Left handle backward, right handle forward, for counter-clockwise rotation. Sideways direction is achieved by sideways movement of the right handle in the required direction of travel.



WARNING: SERIOUS INJURY OR PROPERTY DAMAGE MAY RESULT DUE TO TEMPORARY LOSS OF CONTROL IF OPERATED WITH EXCESS LIQUID ON THE CONCRETE SURFACE.



#### 5 Float/Trowel pitch setting

Once you are familiar with the steering functions on a flat floor, you are ready to combine the steering with float/trowel pitch settings to produce the finish you require. The pitch adjustment feature of the Beton Trowel RIDE-ON TROWEL permits quick and accurate pitch changes of the finishing/float blades, without having to stop the machine. Turning the adjustment crank-handle at the end of the pitch control tubes enables you to change the pitch whenever necessary to allow for varying conditions over the slap surface.

Each spider plate is adjusted independently. The pitch setting will affect the steering of your unit. Experiment with the settings as you test drive so you will know what to expect.

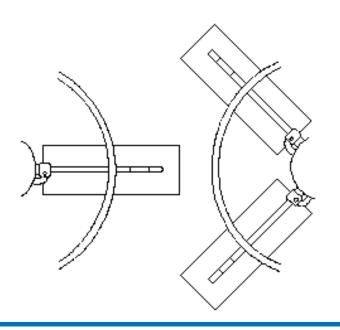


CAUTION: Do not let the machine stand in one spot on the soft concrete; This may place unnecessary strain on the clutch to break it free of the concrete. If the unit has been sitting for any length of time, break it free from the concrete before attempting operation.



CAUTION: When finishing concrete above grade, erect a situation barrier along the edge of the slab as a protective measure. The barrier must follow all applicable codes and should be such that it will stop the trowel from riding over the edge of the slab in case of loss of control.

#### 6 Blade synchronization (specially modified units only)



To avoid blades hitting, make sure spider plates are positioned as shown with respect to each other after performing any maintenance.

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#### 7 Transporter Use



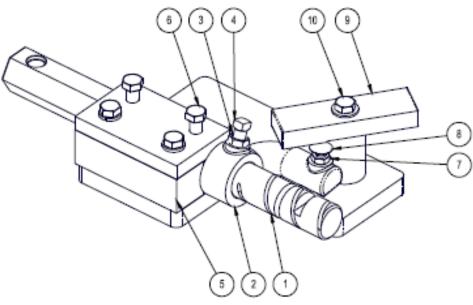
The transporter is designed to be used on the job site only. Do not use it to tow the machine offsite.

The transporter has pick-up brackets located on the inside of the wheels which should be positioned under the pick-up points on the frame. Before connection, the handle will be pointing upwards at approximately a 45 degree angle. Pull the handle down, engaging the transporter and secure the bracket and transporter to the frame by locking the handle bracket in the frame lock by means of the hitch pin. Using the handle as a lever, the ride-on may now be moved. To disconnect the transporter, follow the above steps in reverse.

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#### Trowel arm adjustment fixture



- 1) 10411 Trowel arm
- 2) 10817 Lift lever
- 3) 10808 Jam nut
- 4) 10809 Set screw
- 5) 10824 Block top

- 6) 10507 Bolt
- 7) 10816 Jam nut
- 8) 10815 Carriage bolt
- 9) 10832 Adjustment bar
- 10) 10507 Bolt

The trowel arm adjustment fixture (20801) is reversible. By rotating the arm clamping fixture and the ring bolt, both left hand and right hand trowel arms may be adjusted. Before attempting adjustment, determine whether the trowel arm is right handed or left handed. When adjusting left hand trowel arms use the side of the fixture marked "L". When adjusting right hand trowels arms use the opposite side. The adjustment bar will be set on "46" for the BT900 trowel arm.

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#### 1 Adjustment Procedure

- Remove all trowel arm assemblies (1 & 2 arm and attached lift lever) from suspected maladjusted spider plate.
- Remove lift lever (2) from trowel arm (1) by first loosening jam nut (3) then square head screw (4). If upon inspection (method left to discretion of serviceman) any trowel arm (1) is found to be in a bent condition, it must either be brought back to its original straight condition (method left to the serviceman's discretion) or replaced with new part.
- Replace lift levers (2) on new or straightened arms (1) by reversing procedure described above.



NOTE: IT IS IMPORTANT THAT WHEN TIGHTENING SQUARE HEAD SETSCREW (4), IT SEATS ITSELF SECURELY INTO DIMPLE MACHINED IN ARM.

- Place trowel arm assembly (1 and 2) in fixture (5) with lift lever (2) butting up against fixture. Secure in place with bolts (6).
- ❖ Loosen locknut (7) and screw carriage bold (8) down to full depth allowable. This will provide for ample clearance to swing adjustment bar (9) over head of carriage bolt. Adjustment bar (9) is stamped for appropriate size of machine. Swing appropriate side directly over carriage bolt (8) and secure in place with bolt (10).
- Adjust carriage bolt (8) upwards until contact is made with adjustment bar (9); holding carriage bolt in position with one wrench, tighten locknut (7) to secure in position with second wrench.



NOTE: IT IS VITALLY IMPORTANT TO ENSURE THAT ONCE THE CARRIAGE BOLT IS ADJUSTED TO THE CORRECT HEIGHT, IT DOES NOT MOVE BEFORE, OR DURING THE TIGHTENING OF LOCKNUT.

This same procedure is to be followed with ALL arms from spider plate assembly, and will ensure correct and exact adjustment.

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#### 2 Trowel arm adjustment screw

When assembling trowel blades to trowel arms, the adjustment screw should NEVER protrude below the under-side surface to a trowel arm except when using for emergency on-site adjustment to level trowel blades. If the adjustment screw is not flush with the underside of the trowel arm, then this will cause the power trowel to bounce and vibrate especially at high speed. This will also cause the trowel blades to leave an uneven finish on the concrete due to the blades not being level to one another. Make certain that the adjusting screw is held firmly in place while tightening the bolt which secures the blade to the trowel arm.

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#### **Maintenance**

#### 1 Preventative maintenance and routine service plan

This trowel has been assembled with care and will provide years of service. Preventative maintenance and routine service are essential to the long life of your trowel. Your dealer is interested in your new machine and has the desire to help you get the most value from it. After reading through this manual thoroughly, you will find that you can do some of the regular maintenance yourself. However, when in need of parts or major service, be sure to see Beton Trowel.

#### ❖ GENERAL

- Keep engine oil clean. Change according to engine manufacturer's specifications.
- Maintain the oil levels in the engine and gearbox assemblies. Change as required.
- Use only clean fuel in the engine.
- Check for loose nuts and bolts on the trowel and tighten as necessary.
- Check "V" belts for wear, replace if worn.
- Grease all fittings daily. See diagram.
- Clean the unit after every use to prevent hardening of concrete residue. Hard concrete is very difficult to remove, greatly increases weight and reduces efficient subsequent operation of unit.
- Check clutch linings regularly for wear. Linings should be changed when 3/4 worn. Do not allow metal to metal contact as this will damage the clutch drum. (New lining is 8mm.)

#### ❖ AIR CLEANER

Maintaining a clean engine will extend engine life. Keep air filter clean at all times. Clean air filter using the recommended solvent. See engine manual for proper cleaning procedure. Let the filter dry before reinstalling.

#### SPARK PLUG

Check and clean spark plugs regularly. A fouled, dirty spark plug causes hard starting and poor engine performance. Set spark plug gap to recommended clearance. Refer to engine manual.

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#### **❖** BELT TENSIONING SPECIFICATIONS



NOTE: Belts may become slightly loose after the first few hours of operation. It is important to retension the belts with the tool provided and use the table given as reference.

#### 2 <u>Lubrication</u>

#### ❖ ENGINE OIL

The long life and successful operation of any piece of machinery is dependent on frequent and thorough lubrication.

Before using the trowel, always check your engine for oil. Use proper engine oil as recommended in the engine manufacturer's manual. Fill crankcase to levels as recommended.

#### ❖ SPIDER PLATE

There are 8 (eight) grease fittings on the spider plates, 4 (four) on each must be greased daily.

SPIDER PLATES MUST BE GREASED EVERY TIME MACHINE IS USED.

#### ❖ GEARBOX

Check the oil level sight plugs on both gearboxes daily to ensure the oil is half way on the site glass. Top up with Agma 8 compounded gear oil only. Gearbox capacity on the BT900 is 27oz./767ml.

#### ❖ TO CHANGE GEARBOX OIL

Place a pan beneath the drain plug to catch the oil. Remove the drain plug and the filler plug from the gearbox. After the oil has drained completely, replace the drain plug and tighten. Fill the gearbox through the filler plug with 27oz./767ml. of Agma 8 compounded gear oil. Replace the filler plug and tighten.

#### GREASE FITTINGS

There are 6 bearings in total. Grease all bearings and U-joints to ensure adequate supply of lubricant. They are located above the gearboxes (2 per gearbox) and 2 located in the drive system. The U-joints are located in the drive system as well.

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#### 3 <u>Maintenance plan</u>

	Ť	Each	After 1.5	Each 3	Each 6	Each 9	Each 12
Routine Service Intervals		use	months	months	months	months	months
- Continue	1-		or	or	or	or	or
			50 hrs	100 hrs	200 hrs	300 hrs	400 hrs
Drive Trai	n:						
Bearings	Lubricate	0	0	0	0	0	0
Universal couplings	Lubricate			0	0	0	0
Belt tension / Condition	Check	0	0	0	0	0	0
Clutch / Pulley operation	Check	0	0	0	0	0	0
LH spider plate assembly	Check	0		0	0	0	0
	Lubricate	0	0	0	0	0	0
RH spider plate assembly	Check	0		0	0	0	0
	Lubricate	0	0	0	0	0	0
Gearboxe	s:						
LH Gearbox oil	Check Level	0	0	0	0	0	0
	Change				0		0
RH Gearbox oil	Check Level	0	0	0	0	0	0
	Change				0		0
Gearbox breathers	Check operation			0	0	0	0
Retardant Spray System:							
Water pump operation	Check	0	0	0	0	0	0
Spray nozzles	Clean	0					
Retardant Fluid	Check levels	0					

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Routine Se	ervice	Each use	After 1.5 months	Each 3 months	Each 6 months	Each 9 months	Each 12 months
Intervals		use	or	or	or	or	or
			50 hrs	100 hrs	200 hrs	300 hrs	400 hrs
General Inspec	ction:				200 10		
Operation of lights	Check		0	0	0	0	0
Battery	Clean & Check			0	0	0	0
	Recharge			0	0	0	0
	Replace						2 yrs
Guards	Check	0	0	0	0	0	0
Warning stickers	Check		0	0	0	0	0
Test run:	Check operation		0	0	0	0	0
Controls:							
Dead-man switch operation	Check	0	0	0	0	0	0
Throttle pedal operation	Check	0	0	0	0	0	0
Steering linkages	Check	0	0	0	0	0	0
	Lubricate		0	0	0	0	0
	Replace						As reg'd
Pitch control levers	Check	0	0	0	0	0	0
	Lubricate		0	0	0	0	0
Joystick controls (N/A)	Check	0					
Hydraulic system (N/A)	Check levels			0	0	0	0
	Check hoses			0	0	0	0
	Replace hoses						2 yrs
Engine:							
Fuel pipes & clamps	Check		0	0	0	0	0
	Replace						2 yrs
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
Cooling 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
Fuel Injection Nozzles	Check pressure						500 hrs
Fuel Injection Timer	Check						500 hrs
Injection Pump	Check						500 hrs
Engine wiring	Check						0

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#### 4 Service

Due to the nature and environment of use, power trowels are exposed to severe operating conditions.

Some general maintenance guidelines will extend the useful life of your trowel.

- ❖ The initial service for your power trowel 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.
- Regular service according to the schedule above will prolong the life of the power trowel and prevent expensive repairs.
- Keeping your power trowel clean and free from concrete residue is the single most important regular maintenance operation, over and above the checks in the service schedule above, that can be performed.
  Components such as oil seals, belts, drive line parts and bearings are prone to premature wear from exposure to concrete residue. Using a spray-on release agent on your power trowel before each use will make clean-up after use easy and extend
- ❖ After each use your power trowel should be cleaned to remove any concrete residue from the undercarriage and surrounding components. Use of a power washer will make clean up quick and easy, especially if a release agent was applied prior to use.

the time between replacement of most of the wearing components of the machine.

- In the Service Schedule above, items that should be checked, replaced or adjusted are indicated by "o" in the appropriate column. Not all power trowel 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 (√) 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.
- ❖ For all fuel-line powered trowels the governed speed of the engine is 2000 to 3600 rpm. See engine manufacturer's manual for exact specifications. Care should be used when making any adjustments to the power trowel not to change the governed speed. Increasing the governed speed of the engine may lead to premature failure and void the manufacturer's warranty.
- ❖ Failure to have your power trowel regularly serviced and properly maintained in accordance with the manufacturer's instructions will lead to premature failure and void the warranty.

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#### Labels

#### SAFETY PRECAUTIONS





#### DANGER

#### **EXPLOSION HAZARD**

Never operate the machine in an explosive atmosphere, near combustible materials or where ventilation does not clear exhaust fumes.



#### WARNING

#### **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.





#### CAUTION

#### ROTATING HAZARD

Never place hands or feet inside safety guard rings. Serious injury will result from contact with rotating blades.





#### CAUTION

#### MOVING PARTS

Before starting the machine ensure that all guards and safety devices are in place and functioning properly.





#### ATTENTION

#### 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.

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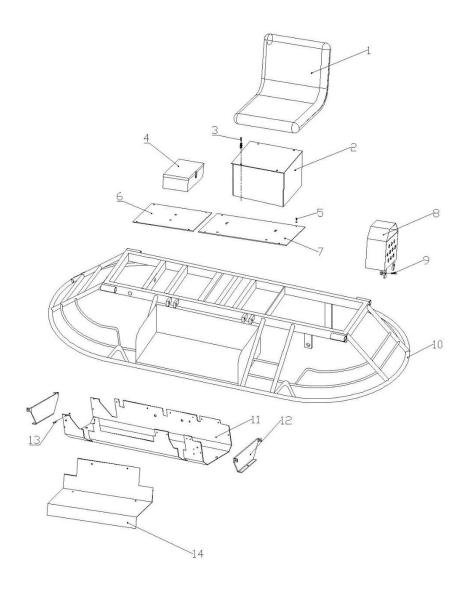
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GEBABEBB BBRUBEBB



#### 2 Parts

#### 1. Framework and Guard Ring



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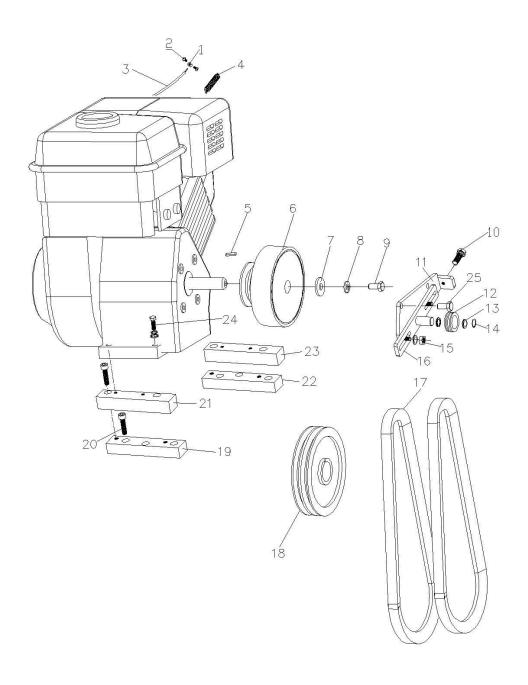


Item No.	Part No.	Description	Qty.
1	8360453I	SEAT	1
2	8360879	SEAT FRAME	1
	9213	BOLT	14
3	9037	SPRING WASHER	14
3	9038	WASHER	14
	9032	NUT	4
4	JG846A080013	TOOL BOX	1
5	9779	BOLT	8
6	830B0455	COVER PLATE	1
7	8360454I	COVER PLATE	1
8	8360459	BELT GUARD	1
9	9040	BOLT	2
9	9236	NUT	2
10	830S0452	GUARD RING	1
11	8360538I	COVER PLATE, BOTTOM	1
12	8360538A	SIDE PLATE	2
13	9902	BOLT	23
13	9023	NUT	23
14	830S1436	FOOT PLATE	1

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#### 2. Power System



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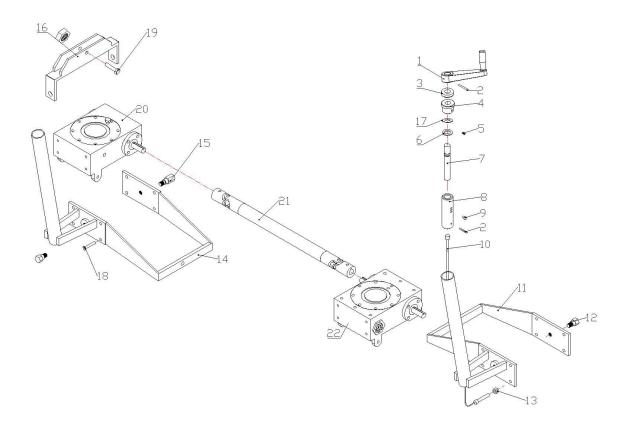
Item No.	Part No.	Description	Qty.
1	4365403	CLAMP	2
2	9019	BOLT	2
3	4365405B	THROTTLE CABLE SLEEVE	1
4	9938	SPRING	1
5	9155	PIN	1
6	830B1815	CLUTCH	1
7	8300061	BUSHING	1
8	9046	SPRING WASHER	1
9	9193	BOLT	1
10	9605	BOLT	1
11	830B1458	MOUNGTING PLATE	1
12	8361461a	TENSIONER	1
13	9063A	BEARING	2
14	9027	RETAINER RING	1
15	9036	BOLT	2
15	9038	WASHER	2
16	8361125	ADJUST PLATE	1
17	8360249	BELT	2
18	8360314	PULLEY	1
19	1423	ENGINE MOUNTING BAR	1
20	9410	BOLT	10
21	1423A	ENGINE MOUNTING BAR	1
22	1424	ENGINE MOUNTING BAR	1
23	1424A	ENGINE MOUNTING BAR	1
24	9018	BOLT	4
25	9717	BOLT	2
26	10201001	THROTTLE CABLE	1

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#### 3. Steering System



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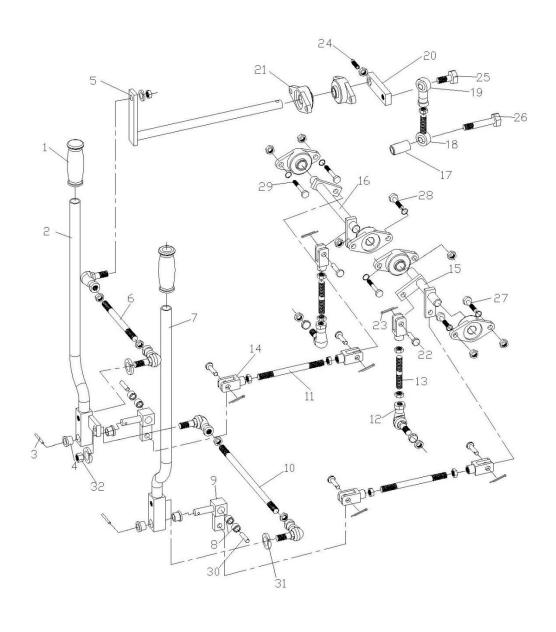
Item No.	Part No.	Description	Qty.
1	B8360470	PITCH HANDLE	2
2	9157A	PIN	4
3	9025	BEARING	2
4	4465502	BUSHING	2
5	9093	BOLT	2
5	9022	SPRING WASHER	2
6	4365504	WASHER	4
7	4365503	ADJUST SHAFT	2
8	4465505	ADJUST SHAFT BUSHING	2
9	9028	BOLT	2
10	8360973	PITCH CONTROL CABLE	2
11	8360484la	BRACKET, LEFT	1
12	8360485a	BOLT	3
13	9016	NUT	2
14	8360491la	BRACKET, RIGHT	1
15	8360492a	BOLT	1
16	8360494a	BRACKET	1
17	9033	WASHER	2
	9018	BOLT	16
18	9046	SPRING WASHER	16
	9047	WASHER	16
19	9511	BOLT	1
19	9513	NUT	1
20	8364000R	GEARBOX, RIGHT	1
21	8360488I	JOINT SHAFT	1
22	8364000L	GEARBOX, LEFT	1

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#### 4. Operating System



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9035 8361975I 9157A 8361194 8360515 8360504I 9514 8361976I 8361195 8360501 8360507I 8360506 9514	GRIP DRIVE LEVER, RIGHT PIN BUSHING CONNECTING SHAFT CONNECTING SHAFT NUT DRIVE LEVER, LEFT BUSHING T-CONNECTOR CONNECTING SHAFT CONNECTING SHAFT	2 1 2 4 1 1 2 1 4 2
9157A 8361194 8360515 8360504I 9514 8361976I 8361195 8360501 8360507I 8360506	PIN BUSHING CONNECTING SHAFT CONNECTING SHAFT NUT DRIVE LEVER, LEFT BUSHING T-CONNECTOR CONNECTING SHAFT	2 4 1 1 2 1 4 2
8361194 8360515 8360504I 9514 8361976I 8361195 8360501 8360507I 8360506	BUSHING CONNECTING SHAFT CONNECTING SHAFT NUT DRIVE LEVER, LEFT BUSHING T-CONNECTOR CONNECTING SHAFT	4 1 1 2 1 4 2
8360515 8360504I 9514 8361976I 8361195 8360501 8360507I 8360506	CONNECTING SHAFT CONNECTING SHAFT NUT DRIVE LEVER, LEFT BUSHING T-CONNECTOR CONNECTING SHAFT	1 1 2 1 4 2
8360504I 9514 8361976I 8361195 8360501 8360507I 8360506	CONNECTING SHAFT  NUT  DRIVE LEVER, LEFT  BUSHING  T-CONNECTOR  CONNECTING SHAFT	1 2 1 4 2
9514 8361976I 8361195 8360501 8360507I 8360506	NUT DRIVE LEVER, LEFT BUSHING T-CONNECTOR CONNECTING SHAFT	2 1 4 2
8361976I 8361195 8360501 8360507I 8360506	DRIVE LEVER, LEFT BUSHING T-CONNECTOR CONNECTING SHAFT	1 4 2
8361195 8360501 8360507I 8360506	BUSHING T-CONNECTOR CONNECTING SHAFT	4 2
8360501 8360507I 8360506	T-CONNECTOR CONNECTING SHAFT	2
8360507I 8360506	CONNECTING SHAFT	
8360506		1
	CONNECTING SHAFT	
9514		2
	NUT	4
8360505	CONNECT BEARING	6
8360508	CONNECTING SHAFT	2
	NUT	4
8360495	CONNECTOR	6
		1
		1
8360053		1
9500	BEARING	1
		1
		1
		6
	PIN	6
		6
		1
		1
		1
		1
		2
		2
		2
	8360508 9514 8360495 83605111 83605101 8360053	8360508         CONNECTING SHAFT           9514         NUT           8360495         CONNECTOR           8360511I         CONNECTING SHAFT           8360510I         CONNECTING SHAFT           8360053         BUSHING           9500         BEARING           9501         BEARING           8360512         PLATE           8360509         BEARING           9505         PIN           9506         PIN           9114         BOLT           9512         BOLT           9511         BOLT           9559         BOLT           9508         WASHER

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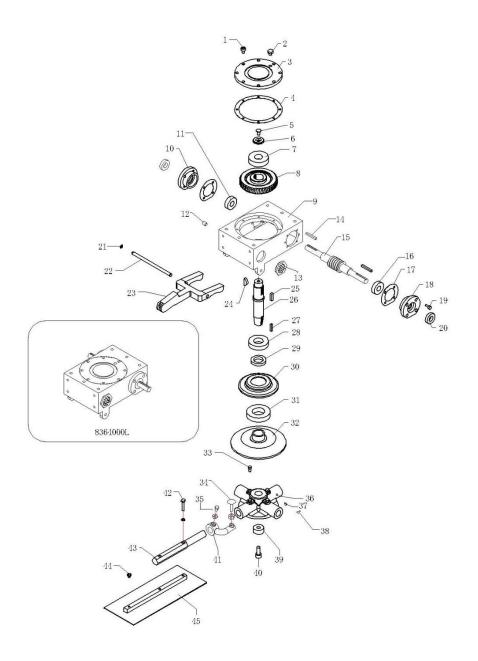
1	I	1	j i
	9568	BOLT	2
28	9508	WASHER	2
	9259	NUT	2
	9507	BOLT	6
29	9508	WASHER	6
	9259	NUT	6
30	9510	PIN	2
31	9504	SPRING WASHER	9
32	9503	NUT	4

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#### 5. Gearbox Assembly (Left)



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Item No.	Part No.	Description	Qty.
1	9118	BOLT	8
2	4364100	RELEASE VALVE	2
3	8364005	GEARBOX COVER	1
4	4464008	SHIMMING	1
5	4364007	BOLT	1
6	4364006	PRESSURE WASHER	1
7	9144	BEARING	1
8	8364010L	BRONZE GEAR, LEFT	1
9	8364003L	GEARBOX CASING, LEFT	1
10	4464012	BEARING FLANGE	1
11	9143	BEARING	1
12	9053	PLUG	1
13	9064	SIGHT GLASS	1
14	9532	KEY	1
15	8364013L	COUNTER SHAFT, LEFT	1
16	9141	BEARING	2
17	4464015	SHIMMING	2
18	4464014	BEARING FLANGE	1
19	9043	BOLT	12
20	9055	SEAL	2
21	9202	RETAINER RING	2
22	4465509	SHAFT, YOKE ARM	1
23	4465510	YOKE ARM	1
24	9156	KEY	1
25	9531	KEY	1
26	8364011L	MAIN SHAFT, LEFT	1
27	9154	KEY	1
28	9222A	BEARING	1
29	9153	SEAL	1
30	4466002	PRESSURE PLATE COVER	1
31	9140	BEARING	1
32	8366003	PRESSURE PLATE	1
33	9066	BOLT	4

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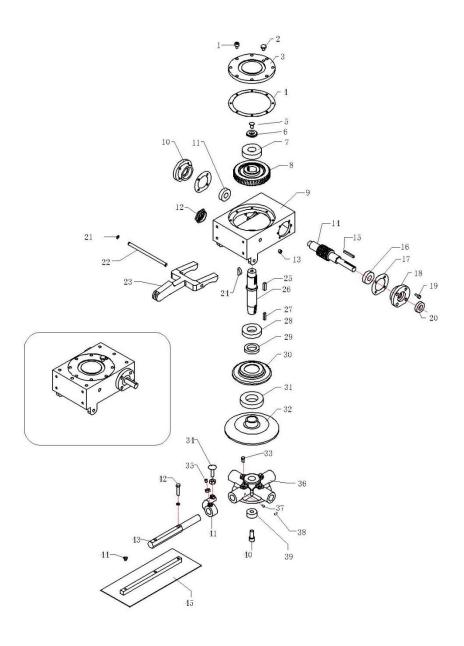


	9067	BOLT	4
34	9059	NUT	4
25	9540	BOLT	4
35	9059	NUT	4
36	8366005L	LEFT SPIDER PLATE	1
37	8366008	BUSHING	8
38	9069	NIPPLE	8
39	4466004	BUSHING	1
40	9068A	BOLT	1
Item No.	Part No.	Description	Qty.
41	4466006	LIFT LEVER	4
42	9071	BOLT	8
42	9037	SPRING WASHER	8
43	8366001	TROWEL ARM	4
44	9072	PLUG	4
45	8306100G	BLADE	4

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#### 6. Gearbox Assembly (Right)



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Item No.	Part No.	Description	Qty.
1	9118	BOLT	8
2	4364100	RELEASE VALVE	2
3	8364005	GEARBOX COVER	1
4	4464008	SHIMMING	1
5	9145	BOLT	1
6	4364006	PRESSURE WASHER	1
7	9144	BEARING	1
8	8364010R	BRONZE GEAR, RIGHT	1
9	8364003R	GEARBOX CASING, RIGHT	1
10	4464014	BEARING FLANGE	1
11	9141	BEARING	1
12	9064	SIGHT GLASS	1
13	9053	PLUG	2
14	8364013R	COUNTER SHAFT, RIGHT	1
15	9532	KEY	1
16	9143	BEARING	2
17	4464015	SHIMMING	2
18	4464012	BEARING FLANGE	2
19	9043	BOLT	12
20	9055	SEAL	1
21	9202	RETAINER RING	2
22	4465509	SHAFT, YOKE ARM	1
23	4465510	YOKE ARM	1
24	9156	KEY	1
25	9531	KEY	1
26	8364011R	MAIN SHAFT, RIGHT	1
27	9154	KEY	1
28	9222A	BEARING	1
29	9153	SEAL	1
30	4466002	PRESSURE PLATE COVER	1
31	9140	BEARING	1
32	8366003	PRESSURE PLATE	1
33	9066	BOLT	4

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**GEBABEBB BBRUBEBB** 



		1	•
34	9067	BOLT	4
34	9059	NUT	4
35	9540	BOLT	4
33	9059	NUT	4
36	8366005R	RIGHT SPIDER PLATE	1
37	8366008	BUSHING	8
38	9069	NIPPLE	8
39	4466004	BUSHING	1
40	9068A	BOLT	1
Item No.	Part No.	Description	Qty.
41	8366006	LIFT LEVER	4
40	9071	BOLT	8
42	9037	SPRING WASHER	8
43	8366001	TROWEL ARM	4
44	9072	PLUG	4
45	F75416B	BLADE	4

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

Model: BT90

#### 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 declaración concierne, es conforme con la siguiente normative u otros documentos.

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

Dichiariamo sotto la ns. Unica responsibilita 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

Responsible Technical File: Chris Livingston for

BNP FORTIS: BE81 0015 9813 5624

ING:

Beton Trowel NV Nijverheidsstraat 11 B-1840 Londerzeel Belgium

Tel 0032 52315350 Fax0032 52303739 25<sup>th</sup> August 2016

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