BCS Scythe Attachment (Europa)
Manufactured by BCS S.p.A.
to fit
BCS Power Units

Operating Instructions
Before commissioning the machine, read operating instructions and observe warning and safety instructions.

PLEASE ALSO READ ORIGINAL BCS INSTRUCTION MANUAL
No liability will be accepted for any damage caused to persons or property through failure to observe the operating and safety instructions.
IMPORTANT

PLEASE READ THE OWNER’S MANUAL FOR THE POWER UNIT FIRST.

For any further information or assistance please contact Tracmaster on 01444 247689 or visit www.tracmaster.co.uk
1. Remove the bar from the box and CHECK THE TIGHTNESS of all bolts and mounting studs.

2. Fit the skids to the top of the bar (figure 2).

3. Fit the drive assembly (A) to the bar (B) using RED LOCTITE on the two nuts. Ensure washers are fitted correctly (figure 3). If applicable check the oil level in the oil bath.

4. Fit cover mounting bracket (C) to drive unit (figure 4). Ensure locating pin on bracket fits into the lower of the two holes. Secure the bracket with the nut & bolt provided. If applicable fit the spacers provided under the front cover.

5. Fit plastic protection cover to drive unit (figure 4). Nip the bolt tight at this stage but do not overtighten.

6. Fit bracket (D) to plastic cover.

7. Fit brackets (C) and (D) together. This will normally be through the bottom set of holes in bracket (D).

8. Tighten all nuts and bolts on the brackets and cover.

9. Read the manual thoroughly before making any adjustments.
ATTACHING THE BLADE HOLDER

1. Remove the bolt in the lower side of the blade holder (figure 9).

2. Screw the M8 x 20 bolt provided in the upper part of the blade holder all the way down (figure 10).

3. Install the lock nut that locks the bolt in place (figure 11) and mount the blade holder again (figure 12).

4. Adjust the blade holder (figure 13). See page 6 for more on blade holder adjustment.

It is now possible to attach the cutter bar onto the flange of the machine.
Blade Holder Adjustment

Loosen the upper lock nut (A in figure 17).

Adjust the tension screw (B in figure 18) until the blade slides freely between the tooth and blade holder without excessive slack (figure 18).

When the adjustment produces the best motion without binding, tighten the upper lock nut (A in figure 19).

BLADE ADJUSTMENT

To adjust the blades, loosen the blade holder (C in figure 20) and move the blade to the wear blocks (E) operating on the blade holder and tighten the bolts allowing a little slack.
Safety Precautions

During transportation of the machine, or when it is not in use, install the blade guard (A) on the bar (figure 14).

Always wear **HEAVY GLOVES** to protect your hands whilst working on the equipment.

**READ** and observe all warning labels on the machine and implements (figure 15).

Always wear appropriate work clothes whilst operating the machine, always wear safety footwear.

**DO NOT USE** the machine near children or animals (figure 16).

The machine operator is responsible for any damage to persons or property.

Always walk with the machine - **DO NOT RUN**.

**NEVER** work on slopes of more than 20° and always work across the face of a slope (side to side), **NEVER** up and down. **NEVER** use the machine on a bank where there is a possibility of the machine sliding down the slope.

Always disengage the power take-off (PTO) when changing direction or location of operation.

**DO NOT** replace the blades or attempt to undertake any maintenance of the cutter bar while the engine is running.

**ONLY** qualified persons should operate the machine.

If any abnormal vibrations occur stop the engine immediately and visually inspect the machine and implement for any signs of damage.

**IMPORTANT:** Read all machine and implement manuals thoroughly before using the cutter bar.
Operating Hints

IMPORTANT

NEVER USE MORE THAN ¼ THROTTLE WHEN THE CUTTER BAR IS OPERATING

IMPORTANT: Read all machine and implement manuals thoroughly before using the cutter bar. Always familiarise yourself with the machine’s operation before commencing work.

Best results are obtained with the engine at a low throttle setting, which enables the bar to cut cleanly and gives less wear and tear on the reciprocating parts, which in turn reduces maintenance.

NB: If you are working on a slope, always work across the slope - never up or down.

On rough terrain, the bar should be raised by the height adjuster skids to prevent the blades from digging into the ground.

WARNING: If any abnormal vibrations or sounds occur, STOP the engine immediately and check the machine and the cutter bar. If you have any concerns contact your supplier.
Blade Replacement

BLADE REPLACEMENT

To replace the blades, loosen the bolts and remove the blade holder (figure 21).

If necessary, first loosen the blade holder (figure 22) and then remove the blade (figure 23).
Replacement of Traction Pin

After every 100 hours of operation check the condition of the blade control pin (A in figure 24) and the ferrule (B).

If replacement is required loosen the block nut (C in figure 24) then slide out the pin (A) and the ferrule (B) and replace them with new parts.

Check the setting screw (G in figure 25) that fixes the steel blade (M) and replace if necessary.

Tighten the screws (V) completely on the steel blade and tighten each setting screw (G) to the same degree until almost all the play has been eliminated on the blade control pin (figure 26).

Finally lock them with conical lock nut (D).
Maintenance Guide

For detailed engine maintenance please refer to engine manufacturers manual.

After every hour of operation stop the engine and remove the spark plug cap. Check engine oil level (recommended oil SAE 10w/40). Before checking the oil level ensure the machine is level.

Remove the gearbox unit dipstick and ensure the oil reaches the top level mark, if necessary top up with API GL-5 80w/90 gear oil (see Power Unit Owner’s Manual for more details).

Replace the spark plug cap.

CUTTER BAR MAINTENANCE

After every 4 hours of work grease the drive unit at the lubrication points (figure 27).

The oil bath control units contain 1 litre of oil and do not require greasing just periodic checks to ensure proper oil levels.

To check the oil level of an oil bath drive, remove the oscillating safety device (A in figure 28) then remove the oil plug and make sure the oil level is approximately 60mm below the hole.

If the oil level is too low, top up with SAE 80W/90 oil (figure 29) and grease the connection bush (figure 30).

Ensure the cutter bar blades are clean and sharp at all times. After each use wash the cutter bar to remove any grass or soil (figure 31) and check the sharpness of the blades.
After washing lubricate the blade to avoid oxidation. Use an old paintbrush or similar to smear grease over the cutter blades.

Check to ensure all nuts and bolts are well fastened, including those securing the bar to the drive unit and machine implement (figure 32).

Please note that this maintenance programme relates to the attachment only. For maintenance of the gearbox and controls please see the Power Unit Owner’s Manual.

NOTES:
* Pressure washing machines removes lubricating grease as well as dirt. It is imperative all linkages, especially the gear speed lever detent ball, are kept well greased otherwise they will become difficult to operate and cause damage.

* DO NOT turn the machine on its side for cleaning.

* DO NOT allow maximum engine speed to exceed 3600rpm.
<table>
<thead>
<tr>
<th>HAZARDS</th>
<th>RISK LEVEL</th>
<th>ACTION NEEDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine tipping over</td>
<td>Low</td>
<td>Do not use on slopes over 25°. Work across slopes, never up and down.</td>
</tr>
<tr>
<td>Machine running away</td>
<td>Low</td>
<td>Operator presence control (see Power Unit manual) stops the machine driving if the operator releases the handlebars. Always check operation before use.</td>
</tr>
<tr>
<td>Lacerations</td>
<td>High</td>
<td>Remove the spark plug cap before carrying out any maintenance or cleaning. Always wear gloves when cleaning or lubricating the cutter bar blades.</td>
</tr>
<tr>
<td>Machine reversing and jamming the operator</td>
<td>High</td>
<td>Never reverse the machine with your back to a wall or similar object.</td>
</tr>
<tr>
<td>against an immoveable object</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burns</td>
<td>High</td>
<td>Be very careful of a hot exhaust. Turn off the machine before re-fuelling. Allow 1” air space in fuel tank.</td>
</tr>
<tr>
<td>Flying objects</td>
<td>Low</td>
<td>Never exceed ¼ throttle when mowing.</td>
</tr>
<tr>
<td>Foot injuries</td>
<td>High</td>
<td>Never let anyone stand in front of the machine when it is operating. Keep all pets and animals away.</td>
</tr>
<tr>
<td>Handlebar adjustment</td>
<td>Low</td>
<td>Always set the height and sideways position before operating the machine – never while it is moving.</td>
</tr>
</tbody>
</table>
# Vibration & Sound Levels

<table>
<thead>
<tr>
<th>MACHINE &amp; CUTTER BAR</th>
<th>RPM</th>
<th>VIBRATION M/SEC² (3 AXIS)</th>
<th>SOUND LEVEL dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCS 710 c/w 80cm scythe</td>
<td>2000</td>
<td>8.0</td>
<td>91.0</td>
</tr>
<tr>
<td>BCS 728 c/w 100cm scythe</td>
<td>2000</td>
<td>8.0</td>
<td>88.0</td>
</tr>
<tr>
<td>BCS 738P c/w 100cm scythe</td>
<td>2000</td>
<td>6.8</td>
<td>91.0</td>
</tr>
<tr>
<td>BCS 738D c/w 100cm scythe</td>
<td>2500</td>
<td>10.8</td>
<td>97.0</td>
</tr>
<tr>
<td>BCS 740P c/w 115cm scythe</td>
<td>2000</td>
<td>7.1</td>
<td>91.0</td>
</tr>
<tr>
<td>BCS 740D c/w 115cm scythe</td>
<td>2500</td>
<td>11.5</td>
<td>97.0</td>
</tr>
</tbody>
</table>
Spare Parts

When ordering spare parts please ensure you provide the complete part number as listed in the spare parts diagrams which can be found at www.tracmaster.co.uk/spare-parts

If you need to order replacement blades then it is important that you quote the number that is engraved on the top of each tooth (figure 33) and if necessary the number of blades on your complete top bar.

The serial number of the implement should also be quoted, this can be found on a label on the underside of the blue cowling (A in figure 34).

To order parts call our Parts Department on 01444 247689 or email spares@tracmaster.co.uk.

Number of Blades on Top Bar:

Number Imprinted on Blades:

Scythe Cutter Bar Serial Number:
© Tracmaster Ltd 2015.
Specifications are subject to change without prior notice.