

## AM20 & AM30 SERVICE INSTRUCTIONS

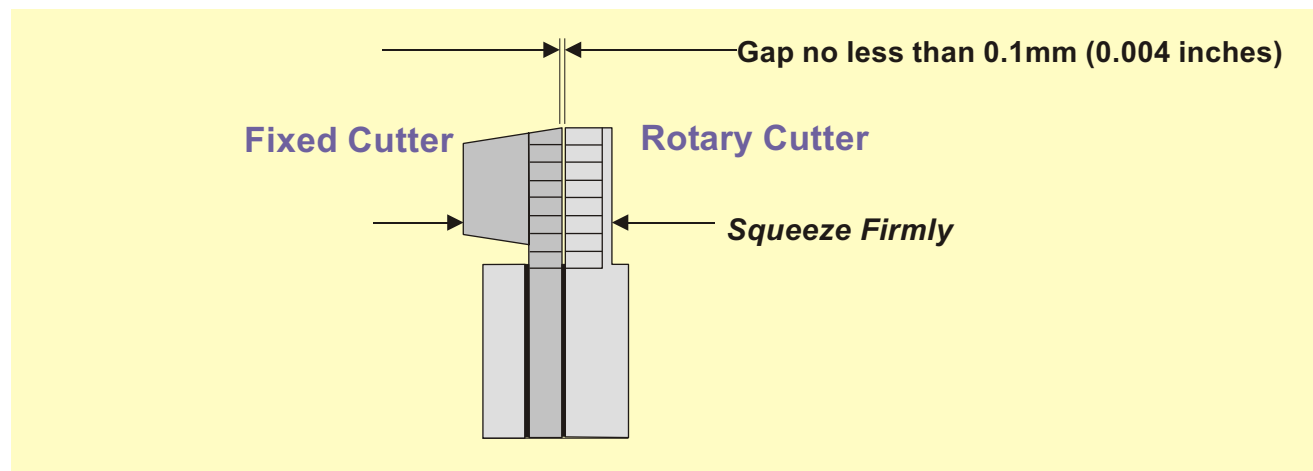
Your Stripper will last for many years with very little maintenance. The wearing parts are the plastic bearings and as they wear the free play between the Fixed and Rotary cutters will increase.

In areas of heavy silt, dissolved salts of calcium and magnesium will be deposited on underwater parts which could increase bearing wear.

Bearings can last for several years but are dependant on engine hours and water clarity.

**It is recommended that the following simple test is carried out annually.**

Squeeze the fixed cutter towards the rotary cutter and if the gap is such that the two nearly touch (less than 0.1mm) then it is time to replace the bearings.



Service packs containing a set of bearings, screws for the clamp ring and rotary cutter and replacement springs for the striker plate are available from Ambassador Marine.

To fit the replacement bearings, follow the steps below:

1. Remove the clamp ring.
2. Separate the bearings from the fixed cutter, slide the two halves of the fixed cutter apart and remove from the prop shaft.
3. Clean all bearing surfaces on the fixed and rotary cutters and the clamp ring.
4. Re-assemble the fixed cutter and new bearings onto the prop shaft and slide the assembly onto the boss of the rotary cutter.
5. Re-fit the two halves of the clamp ring onto the boss of the rotary cutter with the recess facing the stern gear. Ensure that the joint of the clamp ring is at 90 degrees to the joint in the rotary cutter.
6. Insert the new clamping screws contained in the service pack and fully tighten.

## AM20 & AM30 INSTALLATION INSTRUCTIONS

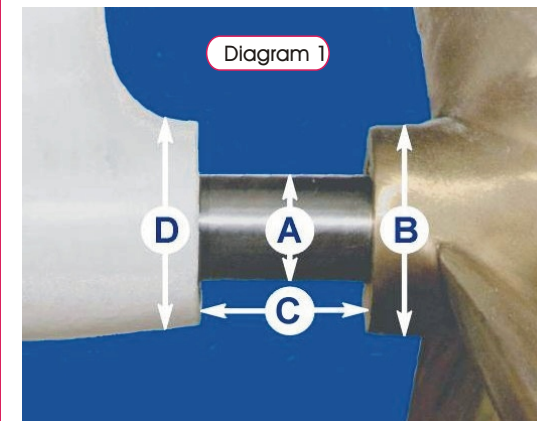
### TOOLS REQUIRED:

#### AM20

- 5mm & 6mm Allen keys
- 10mm spanner
- 6.8mm drill bit
- M8 tap
- Portable electric drill
- Tap wrench

#### AM30

- 5mm, 6mm & 10mm Allen keys
- 13mm spanner
- 10.2mm drill bit
- M12 tap
- Portable electric drill
- Tap wrench



### 1

Ensure that the dimensions indicated in Diagram 1 are correct for the Stripper model to be fitted.

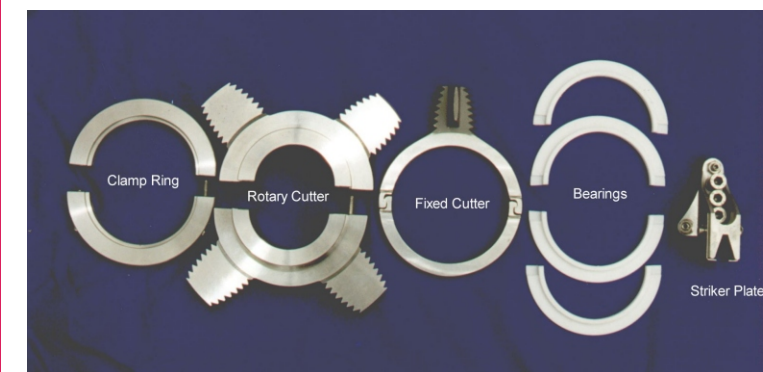
**A** Size stamped on Stripper body must match prop shaft diameter.

**B/D** 90-110mm - **AM20**  
115-165mm - **AM30**

**C** 55mm minimum - **AM20 2/3 Blade**  
65mm minimum - **AM20 4 Blade**  
60mm minimum - **AM30 2/3 Blade**  
70mm minimum - **AM30 4 Blade**

NB: There is no maximum for Dimension 'C'

If gap 'C' is too small, an Ambassador Marine Spacemaker™ should be fitted. Please contact Ambassador Marine for details.



Disassemble the Stripper and identify the parts against Diagram 2



Photo 1

### 3

Assemble the two halves of the fixed cutter on the prop shaft with the 'V' shaped tongue facing the stern gear.

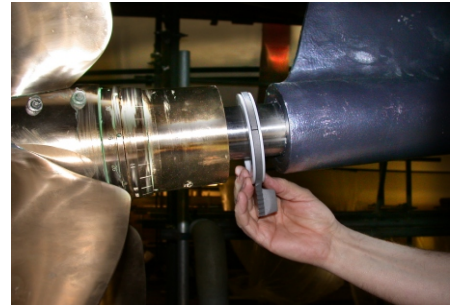


Photo 2

4

With the flat surfaces facing outwards, fit the bearings each side of the fixed cutter with the locating flanges fully inserted into the bore of the cutter.

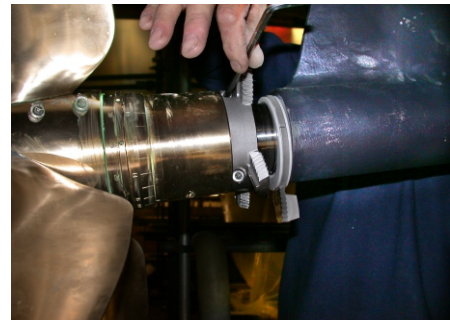


Photo 3

5

Assemble the two halves of the rotary cutter onto the prop shaft and slide the fixed cutter assembly into position on the rotary cutter boss. Insert the two retaining screws but do not tighten at this stage.



Photo 4

6

Fit the two halves of the clamp ring onto the boss of the rotary cutter with the recess facing the stern gear. Ensure that the joint of the clamp ring is at 90 degrees to the joint of the rotary cutter. Insert the clamping screws but do not tighten.

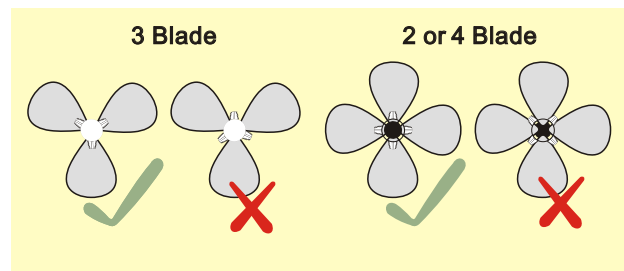
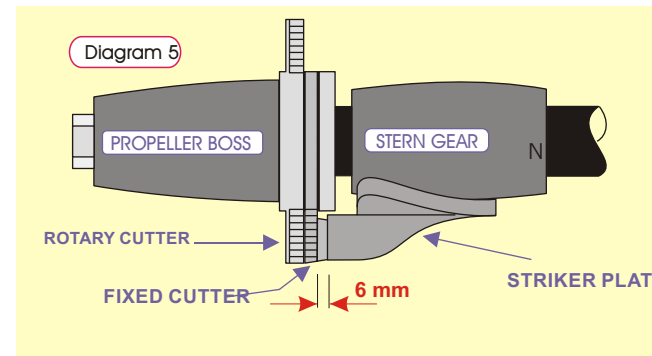


Diagram 4

7

Align the rotary cutter blades so that each blade is positioned centrally behind a propeller blade as shown in Diagram 4. This will prevent extra drag on sail boats and is the optimum position for cutting.



8

Locate the striker plate on the stern gear so that the tongue of the fixed cutter is positioned in the 'V' slot of the striker plate with a 6 mm gap between the fixed cutter blade and the striker plate as shown in Diagram 5.

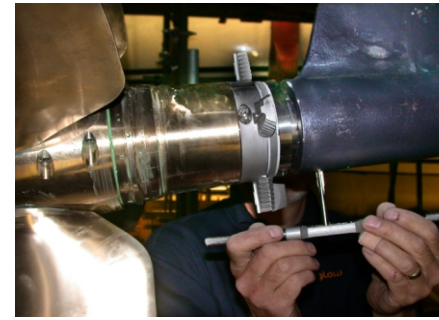


Photo 5

9

Mark the position of the centre retaining screw hole on the stern gear.

Drill and tap the centre retaining hole in the stern gear using the 6.8 mm drill and M8 tap (AM20) or 10.2 mm drill and M12 tap (AM30)

It is possible to fix the striker plate at any angular position on the stern gear but the 6 o'clock position has the small advantage of allowing the fixed cutter to re-engage in the striker plate if, for some reason, any maintenance carried out afloat involves moving the shaft.



Photo 6

10

Fix the striker plate to the stern gear with one socket head screw and spring washer. Using the holes in the striker plate as a guide, drill and tap the two remaining holes and insert the remaining socket head screws and spring washers.



Photo 7

11

Adjust the three small jacking screws to achieve a good three point contact with the stern gear and tighten the lock nuts. Verify that the correct positional relationship between the striker plate and the fixed cutter has been maintained (refer to Step 9) and fully tighten all screws.