Dis Pro Pull Starter Installation

Disappearing Propeller Boat Company

1. The first thing to do is compare starter parts with the accompanying diagram and become thoroughly familiar with both.

2. Measure 2 5/8 inches on propeller shaft, starting at point where shaft enters coupling No. 13, mark with file or any sharp instrument. From this mark measure another 3/4 inch which will be 3 3/8 inches from coupling.

3. Now file flat between these marks 3/4 inch long and 5/16 inch wide. This will be the same location as Woodruff Key No. 12. File ends of square Key until properly fitted.

4. Then remove shaft from coupling and slide on fibre washer No. 7 and Ratchet No. 8. Be sure to have Ratchet on the correct way.

5. Now file top of square Key until you can tap on Ratchet.

6. Care should be taken to ensure this is a good fit. When Ratchet is in proper location take out grub screw and spot shaft with drill. Put screw back and screw down tight. Then put on Drum No. 1 and fibre Collar No. 7.

7. Now put end of shaft back in coupling to proper location and tighten set screw securely, leaving just sufficient space between Ratchet and coupling for Drum to rotate freely.

8. Take Bridge No. 3 and place over shaft with fibre Collar No. 7 between Bridge and Ratchet. Also, be sure to keep an equal distance between top and sides of Bridge and propeller shaft. This can be done by bending cardboard, of sufficient thickness, in a U shape to fill in space between sides of Bridge and shaft: See that bridge is sitting square with engine bed. Now take a piece of bent wire with a sharp point and mark engine bed where ribs on bottom of Bridge rests on. Be sure to make a good outline.

9. Remove Bridge and cut out wood so that Bridge will set down flat on engine bed with no shake. Be careful to keep cardboard in position when fitting, it being absolutely necessary that the shaft is in centre of arch on Bridge.

… continued …

10. This being done, mark and drill for wood screws to screw down Bridge.

11. Remove Bridge. Pass cord No. 15 through hole in rim of drum, tie knot on end of cord, small and tight as possible. Wind cord on Drum same way as shown in accompanying diagram.

Replace Bridge and screw down securely. Pull around the main Spring No. 4 and hook on stud.

12. Screw-on Bracket No. 5 as located in diagram.

13. Bore 5/8 inch hole in bulk head, screw in Bushing no. 14, then force spring No. 17 over end of bushing and thread cord through same and through hole in handle. Draw cord tight, but not enough to cause Drum to move. Allow enough cord for knot and slight tension on bumper Spring No. 17. Now pull cord out about 7 or 8 inches and slip a stick through spokes of Drum. This will allow you to tie knot and drive it in recess for same. Now pull on cord and take out stick.

NOTE: Put felt or wool in slot in Drum and keep it well oiled.

Paul Dodington