

Elgin Outboard Motors

Introduction

This volume covers the suggested techniques for disassembly, inspection and re-assembly of all Elgin Outboard Motors.

It is divided into four sections as follows:

1. Elgin motors prior to 1952
2. Magneto and carburetor section
3. Current 1952 models showing differences and improvements incorporated from time to time
4. 16 H.P. Elgin, Models 5882 and 5884

Section 1 covers the following Elgin Outboard Motors:

| MODEL NUMBER | H.P. | COOLING | NUMBER OF CYLINDERS | YEAR BUILT |
|--------------|-----------------|---------|---------------------|------------|
| 571.58301 | 1 $\frac{1}{2}$ | Air | Single | 1946-51 |
| 571.58401 | 2 $\frac{1}{2}$ | Water | Single | 1947-51 |
| 571.58501 | 3 $\frac{1}{2}$ | Water | Twin | 1947-48 |
| 571.58521 | 3 $\frac{1}{2}$ | Water | Twin | 1947-48 |
| 571.58531 | 5 | Water | Twin | 1950 |
| 571.58541 | 5 | Water | Twin | 1949 |
| 571.58551 | 5 | Water | Twin | 1950 |
| 571.58601 | 5 $\frac{1}{2}$ | Water | Twin | 1947-48 |
| 571.58611 | 5 $\frac{1}{2}$ | Water | Twin | 1947-48 |
| 571.58621 | 5 $\frac{1}{2}$ | Water | Twin | 1947-48 |
| 571.58641 | 6 | Water | Twin | 1950-51 |
| 571.58701 | 6 | Water | Twin | 1949 |
| 571.58721 | 6 | Water | Twin | 1948-49 |
| 571.58731 | 7 $\frac{1}{2}$ | Water | Twin | 1948-49 |
| 571.58741 | 7 $\frac{1}{2}$ | Water | Twin | 1950 |

NOTE:

Standard Model - Manual rope starting, non-reversing motor leg

De Luxe Model - Semi-automatic rewind starter, full reverse motor leg

Section 2 covers the Wico magneto and Tillotson carburetor. Model usage, parts interchangeability and improvements are explained in this section.

Section 3 covers the following Elgin motors:

| MODEL NUMBER | H.P. | COOLING | NUMBER OF CYLINDERS | YEAR BUILT |
|--------------|-----------------|---------|---------------------|------------|
| 571.58201 | 2 | Air | 1 | 1952 |
| 571.58561 | 5 | Water | 2 | 1951-52 |
| 571.58751 | 7 $\frac{1}{2}$ | Water | 2 | 1951-52 |

Changes to basic motor parts such as starter, cooling, motor leg, water pump and neutral clutch are also covered in section 3.

Section 4 is devoted entirely to the 16 H.P. Elgin motor as follows:

| MODEL NUMBER | H.P. | COOLING | NUMBER OF CYLINDERS | YEAR BUILT |
|--------------|------|---------|---------------------|------------|
| 571.58821 | 16 | Water | 2 | 1950-51 |
| 571.58822 | 16 | Water | 2 | 1952 |
| 571.58841 | 16 | Water | 2 | 1951-52 |

These models have a gear shift for forward, neutral and reverse and a separate 5-3/4 gallon fuel tank. Model 571.58841 has a 6 inch longer motor leg for boats with a transom height greater than 15 inches.

The operational steps are presented here in logical sequence for complete disassembly, inspection and assembly of the complete motor. Because each repair job is different, all these steps may not be necessary for a particular replacement or overhaul. Discretion of the service man must be used to determine how far to go in each individual case. Obvious operations are not illustrated and in some cases not explained.

The detail of the first motor is the most complete. Since all Elgins are constructed along similar lines, it was not deemed necessary to repeat instructions and illustrations for each model.

SECTION 1

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DISASSEMBLY, INSPECTION AND ASSEMBLY OF THE 1-1/4 H.P. AIR COOLED SINGLE CYLINDER ELGIN MOTOR, MODEL 571.58301

Fuel Tank Removal

1. Disconnect fuel line at carburetor elbow.
2. Remove 4 screws holding fuel tank to support plate. See Figure 1.

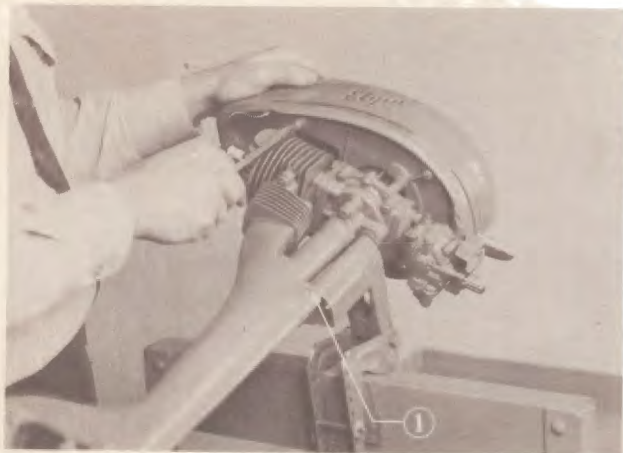


FIGURE 1 - REMOVING FUEL TANK SCREWS
1. Groove Pin for Holding King Pin

3. Bend fuel line down and work tank off motor as in Figure 2.



FIGURE 2 - REMOVING FUEL TANK
1. Idle Relief Holes

Flywheel and Stator Plate Removal

1. Back flywheel nut off 3 turns and while lifting up on the edge of flywheel rim with fingers, hit nut sharply with a fairly heavy hammer to break the flywheel loose from taper. Remove flywheel. See Figure 3.