3 1/2 HP GASOLINE ENGINE KIT
(Part Number 69006)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>214896</td>
<td>1</td>
<td>Gas Engine Brace (Angle 1-1/4&quot; x 1-1/4&quot; x 1/8&quot;)</td>
</tr>
<tr>
<td>23299</td>
<td>1</td>
<td>Engine Housing Assembly</td>
</tr>
<tr>
<td>5286</td>
<td>1</td>
<td>V-Belt</td>
</tr>
<tr>
<td>5708</td>
<td>1</td>
<td>Engine, 3 1/2 hp</td>
</tr>
<tr>
<td>5287</td>
<td>1</td>
<td>Pulley, Engine 6-1/4&quot; Dia.</td>
</tr>
<tr>
<td>70498</td>
<td>2</td>
<td>SETSCREW-SCREWSOCKETHEAD CUP POINT (5/16&quot;-18 x 5/16&quot;)</td>
</tr>
</tbody>
</table>

HARDWARE IN PLASTIC BAG

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5196</td>
<td>1</td>
<td>5/32&quot; Set Screw Wrench</td>
</tr>
<tr>
<td>70143</td>
<td>2</td>
<td>HHCS 5/16&quot;-18 x 3/4&quot; long</td>
</tr>
<tr>
<td>70179</td>
<td>4</td>
<td>HHCS 5/16&quot;-18 x 2-1/4&quot; long</td>
</tr>
<tr>
<td>70226</td>
<td>2</td>
<td>HHCS 3/8&quot;-16 x 3/4&quot; long</td>
</tr>
<tr>
<td>70549</td>
<td>6</td>
<td>5/16&quot;-18 HEX NUT</td>
</tr>
<tr>
<td>70553</td>
<td>2</td>
<td>3/8&quot;-16 HEX NUT</td>
</tr>
<tr>
<td>70569</td>
<td>2</td>
<td>3/8&quot; LOCK WASHER</td>
</tr>
<tr>
<td>70701</td>
<td>40</td>
<td>5/16&quot; FLAT WASHER</td>
</tr>
<tr>
<td>70985</td>
<td>1</td>
<td>Key-Square 3/16&quot; x 1-1/2&quot; long</td>
</tr>
</tbody>
</table>

HHCS = hex head cap screw

TOOLS REQUIRED

3/4" Open End Wrench
3/8" Drill Bit
Electric Drill
Adjustable Wrench

INSTALLATION INSTRUCTIONS

1. REMOVE BELT GUARD COVER
   Remove the five 1/4" x 1/2" long HHCS, that secure the belt guard cover to the belt guard. (See Fig. 1)

2. REMOVE V-BELT DRIVE PULLEY
   Loosen the 3/4" hex nut with an open end wrench and remove pulley. (See Fig. 1)
3. **REMOVE BELT GUARD**
   Remove the two hex head bolts that secure the guard to the frame. (See Fig. 1) Remove guard. Save one of these bolts to use in securing the engine housing to the frame.

4. **BOLT ENGINE HOUSING TO THE FRAME**
   Using a bolt removed in Step 3, attach the Engine Housing to the frame. Snug bolt but do not tighten so adjustments can be made. (See Fig. 2)

5. **SECURE ENGINE BRACE TO HOUSING**
   Place Engine Brace under Engine Housing and above the L-Bracket mounted on the frame. (See Fig. 3) (This L-Bracket was used to bolt the bottom part of the belt guard to the frame.) Use two 5/16" x 3/4" long HHCS to bolt the Engine Brace to the housing.

6. Line up the edges of the Engine Brace with the edges of the frame.

7. **SECURE ENGINE BRACE TO FRAME**
   a) Weld Engine Brace to the frame;  
   OR  
   b) Drill two 3/8" holes in the "A" frame through the existing holes in the Engine Brace. Use two 3/8" x 3/4" long HHCS and hex nuts to bolt the Engine Brace to the frame.

8. Tighten bolt installed in Step 4. (All bolts should now be secure.)

9. **REINSTALL V-BELT DRIVE PULLEY**
   Line up hole in pulley with the drive shaft and slide the pulley on until it seats firmly. Tighten hex nut (on pulley) securely.
10. INSTALL ENGINE PULLEY
   Place key in engine output shaft.
   Line up hole in the 6-1/4" Engine Pulley with engine output shaft
   and slide the pulley on. Set
   Screw and hub should be facing
   away from the engine. (Do not
   tighten set screw.)

11. INSTALL ENGINE
   Place Gas Engine in Engine Housing over the oval slots.
   Insert four 5/16" x 2 1/4" long HHCS to locate the Engine. (Do
   not install nuts yet.)

12. INSTALL V-BELT
   Line up lower pulley with the top pulley by sliding Engine Pulley
   on the Engine Shaft. Tighten
   setscrew on Engine Pulley.
   Install V-belt over pulleys.
   (See Fig. 4)

13. ADJUST ENGINE HEIGHT
   Use the necessary amount of 5/16"
   flat washers to adjust the motor
   height for proper belt tension.
   (See Fig. 4)

   Belt tension should allow for
   1/2" deflection of belt when
   pressure is applied halfway
   between the pulleys. (See Fig. 5)

14. Secure engine to housing by
    installing and tightening 5/16"
    nuts, washers, and lockwashers.
    (4 places)
VERIFY THAT ALL NUTS AND BOLTS HAVE BEEN TIGHTENED.

ALL NUTS AND CAP SCREWS SHOULD BE CHECKED AND RETIGHTENED DURING THE FIRST TWO HOURS OF USE. PERIODIC CHECKS SHOULD BE MADE THEREAFTER.

READ ALL OPERATING AND MAINTENANCE INSTRUCTIONS BEFORE USING THIS EQUIPMENT.

CHECK ENGINE OIL BEFORE STARTUP.

HOW TO OBTAIN SERVICE

When ordering parts, be sure to include the following information:

A) Serial Number. Include all letters and numbers.
B) Name of each part.
C) Model name. Include all letters and numbers.
D) Quantity of each part.
E) Complete part number.

Service on your engine can be obtained through the engine manufacturer’s outlets. See the Yellow Pages of your local phone book under "Engines - Gasoline" for address.

FILL IN THE FOLLOWING FOR YOUR FUTURE REFERENCE:

For ordering parts:
(Not including Engine)

Unit Name ________________________________
Model Number ______________________________
Complete Serial Number __________________________
Engine Model Number __________________________
Engine Type Number __________________________
Engine Code or Serial Number__________________