

Installation Instructions

Sky-Tec C12ST2 Starters

See **Installation** on the drawing on the reverse side of this sheet.

Weight and Balance Calculation

The Sky-Tec starter motor weighs less than the original equipment starter. You must perform a weight-and-balance calculation. Weigh the original-equipment starter removed from the engine. The original-equipment starters had varying weights. From the weight of the original-equipment starter, subtract the weight of the Sky-Tec starter motor, 9.9 pounds. Reduce the weight of the **engine component** or the **starter**, if separately listed, in the **Pilots Operating Handbook** for the aircraft and use this new weight for the weight-and-balance calculation.

Possible Problems After Installation

If the new starter does not crank the engine, check the voltage at the Power Input Bolt on the starter while attempting to crank. If the voltage reading is less than 9.5 volts on a 12-volt system, there is a potential problem with the aircraft's electrical system. Check the battery and solenoids. If the voltage reading shows sufficient voltage, check the **Starter Adapter**.

Warranty

Sky-Tec warrants this starter to be free from defects for a period of two years after being placed in service. In the event of a problem, call Sky-Tec for a return authorization number.

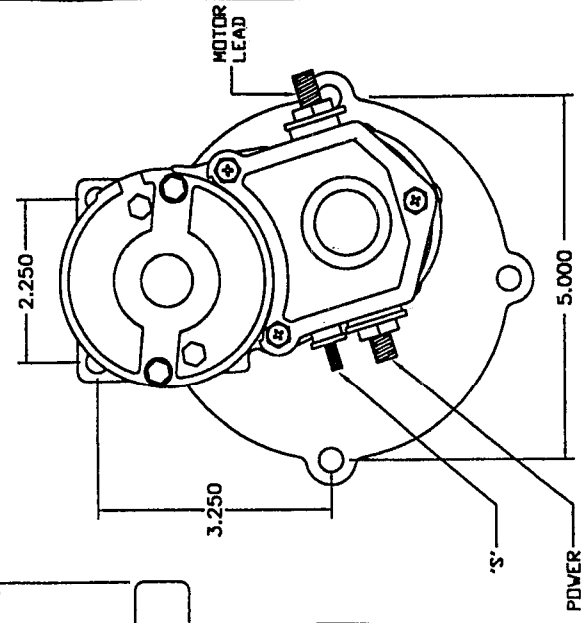
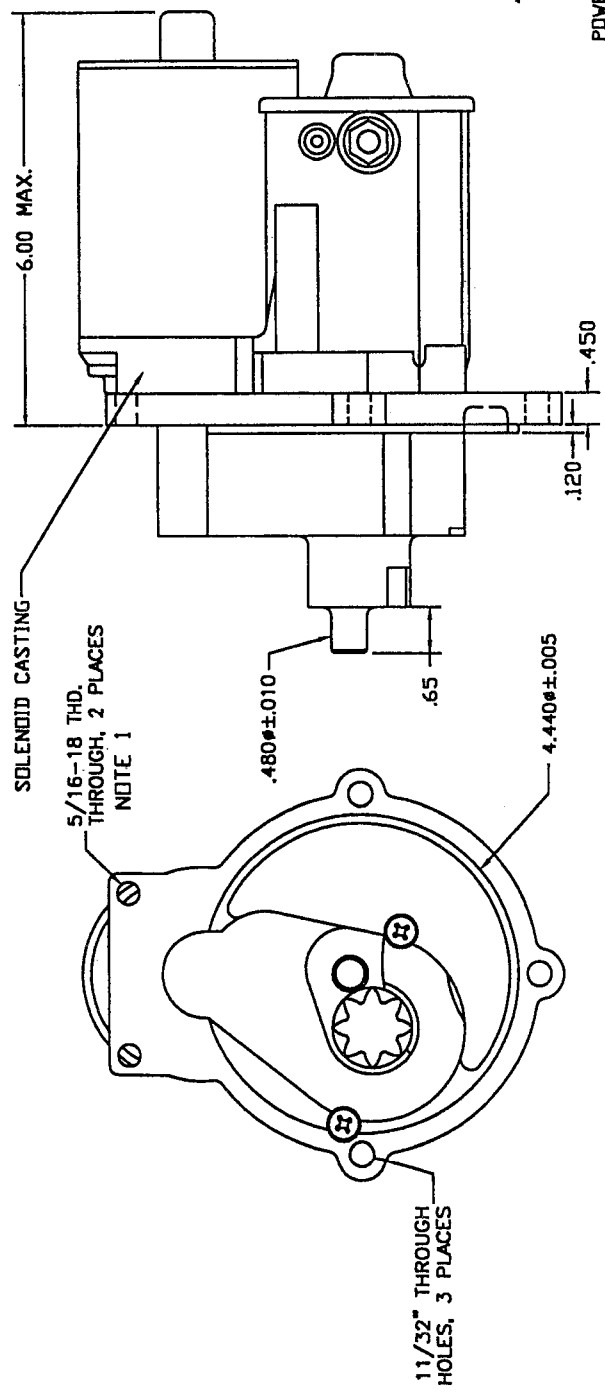
REVISIONS			
LETTER	DESCRIPTION	DATE	APPROVED
A	REMOVED MOUNTING BOSSES	8/24/00	E.C.
B	REVISED STEP 5 & 6 REVISED NOTES	10/13/00	E.C.

INSTALLATION

- DISCONNECT POWER CABLE AND UNBOLT OLD STARTER FROM ENGINE.
- INSTALL C12ST2 WITH NEW GASKET USING EXISTING NUTS AND WASHERS.
- TIGHTEN NUTS TO TORQUE SHOWN IN TCM ENGINE OVERHAUL MANUAL. (275-325 IN/LB).
- ENSURE THAT THE 2 THROUGH BOLTS FASTENING STARTER TO ACCESSORY CASE DO NOT BOTTOM OUT ON THE SOLENOID CASTING (NOTE 2). USE WAHRSERS UNDER HEADS OF BOLTS AS NEEDED.
- IF THE ORIGINAL STARTER SOLENOID WAS MOUNTED ON THE FIREWALL, IT MAY BE REMOVED OR LEFT IN PLACE. IF THE SOLENOID IS REMOVED FROM THE FIREWALL, EXTEND THE LEADS TO REACH THE CONNECTIONS ON THE C12ST2 STARTER.
- IF THE ORIGINAL SOLENOID WAS ON THE STARTER OR IS REMOVED FROM THE FIREWALL, REMOVE THE JUMPER BETWEEN THE 'S' TERMINAL AND THE POWER INPUT BOLT ON THE C12ST2. ATTACH THE SWITCH WIRE TO THE S-TERMINAL ON THE C12ST2 USING METRIC HARDWARE SUPPLIED. TIGHTEN TO 10 IN/LB.
- ATTACH THE POWER CABLE TO THE POWER TERMINAL ON THE C12ST2 USING HARDWARE SUPPLIED. TIGHTEN TO 50 IN/LB.
- CONTINUING AIRWORTHINESS: THE STARTER SHOULD BE OVERHAULED AT 2700 HOURS OR WHEN A MAJOR OVERHAUL IS PERFORMED ON THE ENGINE ON WHICH IT IS INSTALLED. NO OTHER MAINTENANCE IS REQUIRED OR RECOMMENDED.

NOTES

- ACCESSORY CASE THROUGH BOLT LOCATIONS.



STANDARD TOLERANCES

ALL DIMENSIONS IN INCHES UNLESS SPECIFIED
 DECIMALS: .XX ±/- .010, .XX ±/- .030(CAS CAST)
 ANGLES ±/- 1 DEGREE, FRACTIONS ±/- 1/16
 CONCENTRICITY .005 TIR

Sky-Tec Partners, Ltd.
 Granbury, Texas

MODEL C12ST2 STARTER INSTALLATION

DRAWN BY: E. CHIAPPE DATE: 05/08/00

MATERIAL: DRAWING NUMBER: REV. 70001 B