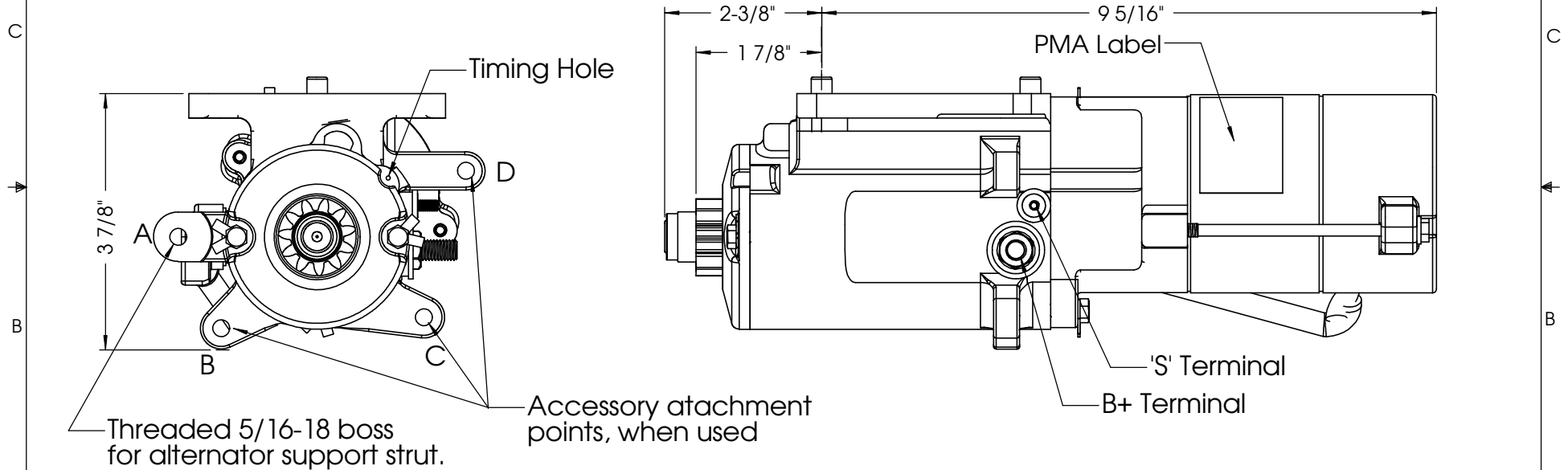


INSTALLATION INSTRUCTIONS

- Use 3ea. AN35-5 nuts and 1ea. AN5 bolt of sufficient length to yield 1/2" of thds. into the crankcase.
- Use AN936-516 lock washers under each nut and bolt.
- Torque mounting bolt and nuts to 100 in. lbs.
- NL and NLR models:** For 12 Volt operation, install a jumper between the B+ and 'S' terminals.
For 24 Volt operation, remove the jumper from B+ and 'S' terminals and discard.
NL/ec and NLR/ec models (no 12V use permitted): For single-wire connection (use with starter relay), install the jumper between B+ and 'S' terminals. For use without separate starter relay, remove jumper wire.
- Using a 13mm wrench, torque the B+ nut to 60 in. lbs. and using a 7mm wrench, torque the 'S' nut to 10 in. lbs.
- Place MS2571-1S and MS2571-2S (or similar) insulating nipples over the 'S' and 'B+' terminal connections when installing.
- Continuing airworthiness: The starter should be returned to the factory for overhaul at 2700 hours of engine operation or when a major overhaul of the engine is performed, or if servicing is required. No other maintenance is required or recommended.
- Where required to support ancillary equipment, it is permissible to drill out the threaded hole or otherwise alter boss A. Bosses B, C and D may be trimmed to within 1/8" of the starter case where required to clear other devices near the starter.

REVISIONS

LTR.	DESCRIPTION	DATE	APRV.
A	ADDED 149-NLR	4/17/03	EC
B	ADDED STEP 5-7 TO INSTRUCTIONS	6/25/03	EC
C	ADD STEP 8 & 9, ACCESSORY BOSS IDENTIFIERS	12/20/05	EC
D	CHANGED NOTE 4, 5, 8, 9. ADDED LABEL DATA	6/06/06	EC
E	REMOVED NOTE 9. EDITED NOTE 8.	8/31/06	RC



PMA DATA TABLE

MODEL	S/N	PITCH	VOLTS
122-NL	CN-	10	12/24
149-NL	FN-	12	12/24
149-NLR	FNR-	12	12/24
122-NL/ec	CNE-	10	24
149-NL/ec	FNE-	12	24
149-NLR/ec	NRE-	12	24

PMA LABEL

Sky-Tec FAA-PMA
 Eligible on: Lycoming 235, 290, 320, 360, 540, 541 & 720 series engines.

Model No. **Serial No.**

Pitch **Volts**

Sky-Tec Partners, Ltd.

Granbury, Texas

NL, NL/ec, NLR, & NLR/ec INSTALLATION

DRAWN BY:	E. Chiappe	DATE	11/27/02
MATERIAL	DWG. NO.	REV.	
	25001	E	