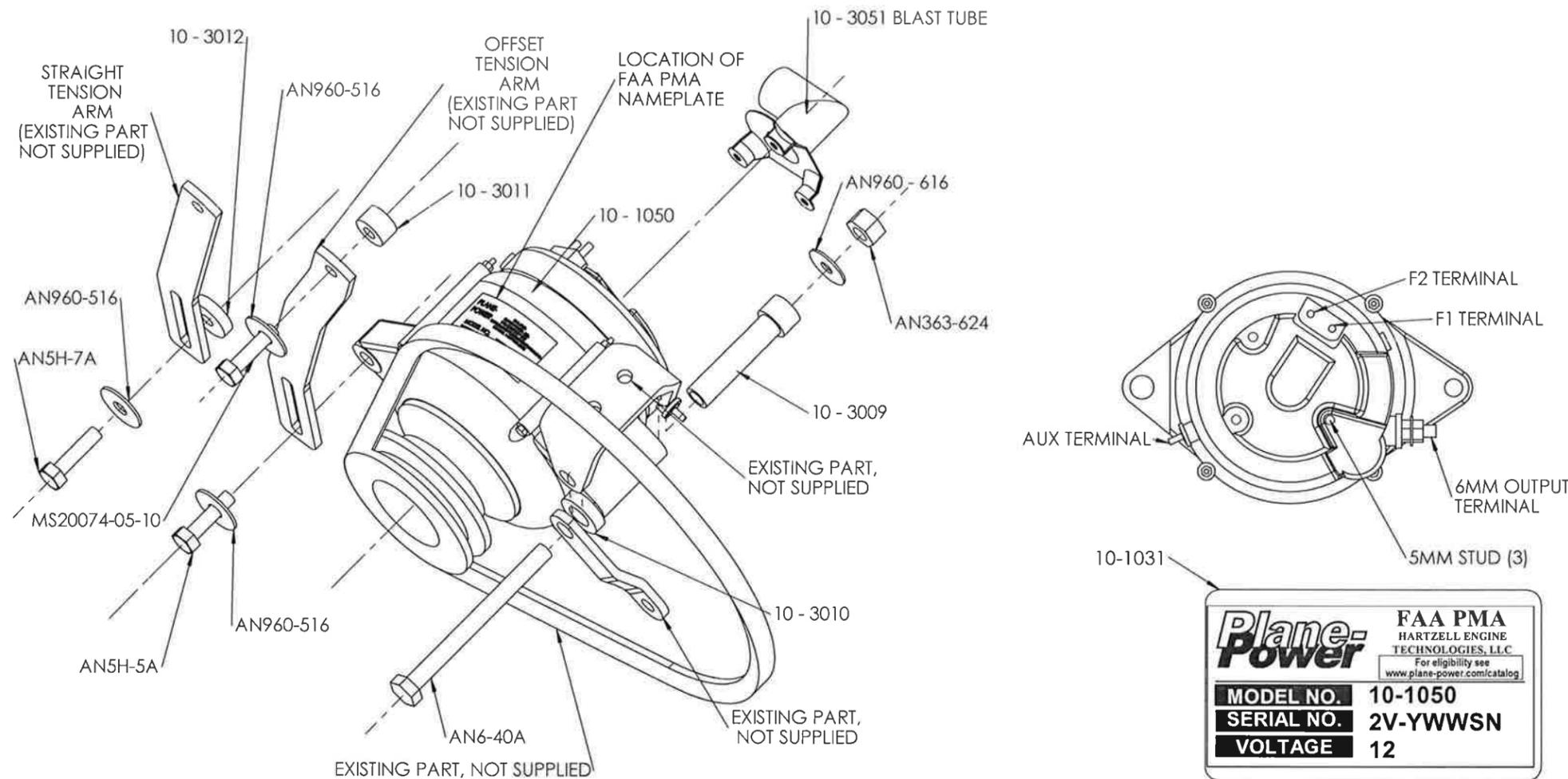


NOTE: IF EQUIPPED WITH OFFSET TENSION ARM, SAFETY WIRE (2) TENSION ARM BOLTS (MS20074 - 05 - 10 & AN5H-5A), OR IF EQUIPPED WITH STRAIGHT TENSION ARM, SAFETY WIRE TENSION ARM BOLT (AN5H-7A) WITH .032" SAFETY WIRE.

REVISIONS				
EN	REV.	DESCRIPTION	BY	DATE
1409003	G	FIRST RELEASE INTO HET DESIGN DATA	BJ	9/3/14
1409004	H	1) TITLE BLOCK WAS PLANE-POWER, LTD 2) "HARTZELL ENGINE TECHNOLOGIES, LLC" WAS "PLANE POWER, LTD" 3) "SHEET 2" WAS "REVERSE SIDE" 4) ADDED 10-1031 CALLOUT TO DATA TAG 5) 10-1050 WAS AL12-P70 6) REMOVE DATA TAG MATERIAL NOTE	BJ	9/3/14
1411043	J	1) ON SHEET 1, "MAINTENANCE" WAS "CONTINUED AIRWORTHINESS"; 2) ON SHEET 2, "MAINTENANCE INSTRUCTIONS" WAS "INSTRUCTIONS FOR CONTINUED AIRWORTHINESS"	OKQ	11/19/14



**Plane-Power**  
**FAA PMA**  
**HARTZELL ENGINE TECHNOLOGIES, LLC**  
For eligibility see www.plane-power.com/catalog

MODEL NO.	10-1050
SERIAL NO.	2V-YWWSN
VOLTAGE	12

INSTALLATION AND MAINTENANCE INSTRUCTIONS ON SHEET 2

SPECIFICATION CLASSIFICATION		
CLASSIFICATION	DIMENSION CONVENTION	NOTE NO. CONVENTION
CRITICAL	<XX.XX>	<#>
MAJOR	[XX.XX]	[#]
MINOR	XX.XX	#
REFERENCE	(XX.XX)	(#)

UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES AND APPLY AFTER HEAT TREAT AND PLATING  
 .X = ±.015  
 .XX = ±.010  
 .XXX = ±.005  
 ANGLES ±1°  
 BREAK ALL EDGES AND MACHINE ALL INSIDE CORNER FILLETS .015 MAX. SURFACE FINISH

THIS DRAWING CONTAINS INFORMATION THAT IS CONFIDENTIAL AND PROPRIETARY TO HARTZELL ENGINE TECHNOLOGIES. THIS DRAWING IS FURNISHED ON THE UNDERSTANDING THAT THE DRAWING AND THE INFORMATION IT CONTAINS WILL NOT BE COPIED OR DISCLOSED TO OTHERS EXCEPT WITH THE WRITTEN CONSENT OF HARTZELL ENGINE TECHNOLOGIES. WILL NOT BE USED TO THE DETRIMENT OF HARTZELL ENGINE TECHNOLOGIES, AND WILL BE RETURNED UPON REQUEST BY HARTZELL ENGINE TECHNOLOGIES.

GEOMETRIC SYMBOLS PER ANSI Y14.5	
FLATNESS	—
STRAIGHTNESS	—
ROUNDNESS	—
CYLINDRICITY	—
PROFILE	—
PERPENDICULARITY	—
POSITION	—
CONCENTRICITY	—
SYMMETRY	—
ANGULARITY	—
PARALLELISM	—
CIRCULAR RUNOUT	—
TOTAL RUNOUT	—

DRAWN	BJ	2/15/05
CHECKED	EAB	11/19/14
ENG.	RFR	11/19/14
FINISH	N/A	
WEIGHT	N/A lbs	
MATERIAL SEE INDIVIDUAL COMPONENTS		
SIZE	SH 1 OF 2	CODE ID 65PY1

**HARTZELL ENGINE TECHNOLOGIES**  
Montgomery, ALABAMA USA

2900 Selma Highway  
 Montgomery, AL 36108

AL12-P70 INSTALLATION INSTRUCTIONS

DRAWING NO.	REV.
10-3001	J

## Part No. 10-3001

### Installation Instructions

1. Disconnect aircraft battery.
2. Install alternator per included drawing.
3. Refer to appropriate engine and airframe service manuals for belt tension and bolt torques.
4. Install battery wire with MS25171-2S terminal nipple on 6mm output terminal and torque to 50 in. lb.
5. Install ground wire to any of the three 5mm studs on rear of alternator and torque to 35 in. lb.
6. Install field wire with MS25171-1S terminal nipple to F1 terminal on rear of alternator and torque to 20 in. lb.
7. NOTE: F2 terminal to remain grounded with ground strap UNLESS aircraft voltage regulator is a type "A" regulator using a 2-wire field circuit, in this case remove and discard ground strap from F2 terminal and connect wiring from voltage regulator to F1 and F2 terminals, torque to 20 in. lb.
8. If aircraft is equipped with an "alternator out light" circuit, connect that wire to the AUX terminal and torque to 20 in. lbs. Other wise leave AUX terminal open.
9. Reconnect aircraft battery.
10. Start aircraft and check alternator output for proper operation.

### Maintenance Instructions

Annual / 100 hour inspections:

1. Remove drive belt and turn alternator rotor to check condition of bearings for abnormal noise or roughness.

5 year or 1,000 hour intervals:

1. Repeat: Annual / 100 hour inspection.
2. Remove field brush assembly and inspect brushes for excess wear. Replace brush assembly if brushes extend less than .250" from edge of brush holder case.