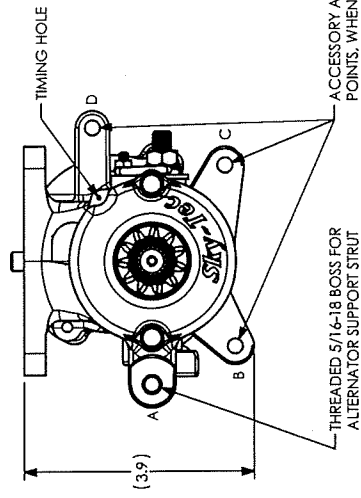
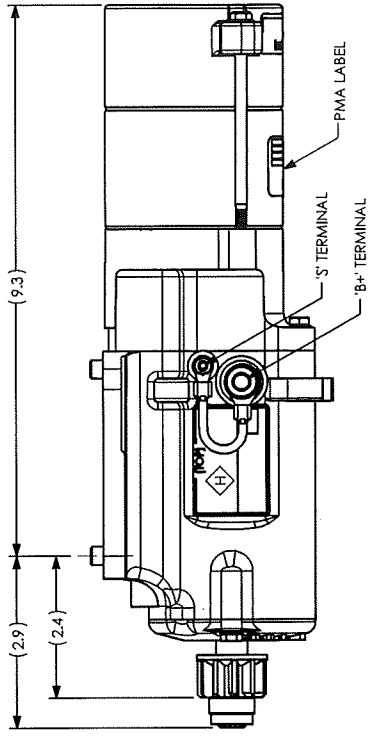


ECO		REV.		DESCRIPTION		BY		DATE	
123512	G			1) REDRAWN IN SOLIDWORKS 2) FORMAT: METRIC UNITS 3) CHANGES TO "NL INSTALLATION INSTRUCTIONS" 4) REMOVED PMA DATA TABLE AND LABEL GRAPHIC		EAB		10/19/16	
123858	H			1) FLIPPED JUMPER WIRE ORIENTATION		EAB		12/15/16	

INSTALLATION INSTRUCTIONS:

1. INSTALL NEW STARTER WITH EXISTING MOUNTING HARDWARE OR APPROVED REPLACEMENTS.
2. USE 4 EA. AN936-51 6 INTERNAL TOOTH LOCK WASHERS OR SUPPLIED M8 INTERNAL TOOTH LOCK WASHERS UNDER EACH NUT AND/OR BOLT HEAD.
3. TORQUE MOUNTING NUTS AND/OR BOLTS TO 100 INCH-POUNDS.
4. **NL & NLR MODELS:** FOR 12V OPERATION, INSTALL JUMPER WIRE BETWEEN THE 'B+' TERMINAL AND THE 'S' TERMINAL. FOR 24V OPERATION, REMOVE THE JUMPER WIRE AND DISCARD.
NL/EC & NLR/EC MODELS (24V ONLY): LEAVE JUMPER WIRE BETWEEN THE 'B+' TERMINAL AND THE 'S' TERMINAL.
5. PLACE MS2571-1S AND MS2571-2S (OR SIMILAR) INSULATING NIPPLES OVER THE 'B+' AND 'S' TERMINAL CONNECTIONS WHEN INSTALLING.
6. PLACE POWER CABLE RING-TERMINAL OVER STARTER 'B+' TERMINAL. INSTALL SUPPLIED M8 INTERNAL TOOTH LOCK WASHER AND NUT ON STARTER 'B+' TERMINAL. USE A 13MM WRENCH TO TORQUE THE NUT TO 60 INCH-POUNDS.
7. IF JUMPER IS INSTALLED, USE A 7MM WRENCH TO TORQUE THE SUPPLIED M4 NUT ON THE 'S' TERMINAL TO 10 INCH-POUNDS.
8. 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.
9. WHERE REQUIRED TO SUPPORT ANCILLARY EQUIPMENT, IT IS PERMISSIBLE TO DRILL OUT THE THREADED HOLE OR OTHERWISE ALTER BOSS 'A'. BOSSSES 'B', 'C', & 'D' MAY BE TRIMMED TO WITHIN 1/8" OF THE STARTER CASE AND DISCARDED WHERE REQUIRED TO CLEAR OTHER DEVICES NEAR THE STARTER.



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

USER IS RESPONSIBLE FOR VERIFICATION OF CURRENT REVISION BEFORE USING THIS DOCUMENT. DOCUMENT CONSIDERED "REFERENCE ONLY" IF NOT THE CURRENT REVISION.

UNLESS OTHERWISE SPECIFIED	GEOMETRIC SYMBOLS PER ANSI Y14.5	ENGINEER	EAB	DATE	10/19/16
DIMENSIONS ARE IN INCHES AND APPLY AFTER HEAT TREAT AND PLATING	FINISHES: STRAINING FINISHES HOLE FINISHES SURFACE FINISHES	K. NORD			
X ± .015 Y ± .010 Z ± .005	PERIODICITY	APPROVD.	123858		
ANGLES ± 1°	PERIODICITY	FINISH	N/A		
BREAK ALL EDGES AND MACHINE ALL INSIDE CORNER FILLETS .015 MAX.	PERIODICITY	WEIGHT	N/A		
SURFACE FINISHES: CONFORMAL AND PROPRIETARY TO HARTZELL ENGINE TECHNOLOGIES. THE DRAWING IS FURNISHED FOR INFORMATION ONLY AND IS NOT BE COPIED OR REPRODUCED TO OTHERS EXCEPT WITH THE WRITTEN CONSENT OF HARTZELL ENGINE TECHNOLOGIES. WILL BE RETURNED UPON REQUEST BY HARTZELL ENGINE TECHNOLOGIES.	PERIODICITY	MATERIAL	N/A		
	CONCENTRICITY	SIZE	SH 1	OF 1	65PY1
	SYMMETRY	B			
	PARALLELISM	DRAWING NO.			ST25001
	CIRCULAR RUNOUT	REV.			H
	TOTAL RUNOUT				
	SCALE 1:2				



NL INSTALLATION INSTRUCTIONS