



## **INSTALLATION INSTRUCTIONS FOR ADD-ON PMG KITS MAGNAPLUS® GENERATORS FRAMES 282 THROUGH 287**

**Note: For single bearing generators, this procedure should be done after the generator has been assembled to the engine to prevent the PMG rotor from binding in the PMG stator. Reference Assembly Drawing: B-779682-0A, Rev 2.**

- 1) Remove louvered drip cover p/n 720651-01 from opposite drive end-bearing carrier and set aside. This cover will be re-installed during step 8 below.
- 2) Inspect PMG stator adaptor and opposite drive end bearing carrier to assure the mating surfaces are free of foreign material. Clean these surfaces as necessary.
- 3) Install PMG stator adaptor p/n 712705-01 on opposite drive end bearing carrier, and secure with four (4) ¼ - 20 x 0.75" Whiz Lock Hex head, cap screws p/n A-9646-75CC.
- 4) Position PMG rotor assembly p/n A-526816 consisting of PMG rotor, shaft p/n 701846-01, and roll pin p/n 811807-02 on the generator shaft, inserting the roll pin into the predrilled hole in the generator shaft.
- 5) Secure PMG rotor assembly to shaft with Hex Head ½ - 13 x 3.75" bolt p/n 801112-16. Torque bolt to 25 Ft-Lbs (34 N-m).
- 6) Install PMG stator assembly p/n A-525548-1 on stator adaptor. Secure with 4, ¼ - 20 x 1.75" cap screws p/n 801000-08. Torque screws to 6 Ft-Lbs (8 N-m). Pass the PMG stator leads through upper opening in the opposite drive end bearing carrier, and into the generator connection box. Inspect air gap between the PMG stator and the PMG rotor. You may have to loosen the PMG stator and stator adaptor bolts, to adjust the position of both the stator and adaptor to achieve a uniform air gap all around the exciter rotor. Nominal air gap is 0.040". A piece of cardboard, paper, or other non-metallic material approximately 1/32" thick could be used as a feeler gauge in the process of alignment.
- 7) Install PMG cover part number 720647-01 with the 4 large holes fitting over the 4 opposite drive end bearing bracket retaining bolt heads. Secure the cover to the bearing bracket with 4 Hex Head ¼ -20 x 0.75" whiz lock cap screws part number A-9646-75CC.
- 8) Install louvered drip cover with the cover slots towards the bottom of the generator on the end of PMG cover with 4, ¼ Push Pins (Christmas Tree Type) part number 801203-01.
- 9) Install Automatic Voltage Regulator DVR2000E/EC and capacitor, per MK1084 and mounting arrangement drawing B-779937-0A, or install Automatic Voltage Regulator PM300 and capacitor per MK 1070 and mounting arrangement drawing B-779874-0A.

**TYPE MAGNAPLUS FRAMES 282 THROUGH 287 ADD-ON PMG PARTS LIST**  
**Reference Assembly Drawing B-779682-0A, Rev 2**

ITEM #	PART DESCRIPTION	QTY.	PART NUMBER
1	PMG Stator Assembly	1	A-525548-1
2	PMG Rotor Assembly	1	A-526816
3	PMG Stator Adaptor	1	712705-01
4	PMG Shaft Adaptor	1	701846-01
5	Screw, Hex Hd Cap ¼ - 20 x 1.75"	4	801000-08
6	Washer Belleville, ¼	4	A-9682-2CC
7	Screw, Hex Hd Cap, 3/8 - 16 x 3.75"	1	801004-16
8	Washer, Belleville 3/8	1	A-9682-5CC
9	Roll Pin, 0.19" x 0.88"	1	811807-02
10	Louvered Cover	1	720651-01
11	Screw, Hex Hd Whiz Lk ¼ 20 x 0.75"	8	A-9646-100CC
12	PMG Cover	1	720647-01
13	Push Pin (¼" Christmas Tree Type)	4	801203-01
A	PMG stator mounting bolts to be torqued to 6 Ft – Lb (8 N-m).		
B	PMG rotor mounting bolt to be torqued to 25 Ft – Lb (34 N-m).		

