

SERVICE INFORMATION LETTER

GENERAL AVIATION ENGINE MOUNTING ASSEMBLY

LORD Part No.

J-9613-12

J-9613-19

J-9613-29

J-9613-40

J-9613-49

J-9613-59

J-9613-72

Parker LORD
2455 Robison Road W
Erie, PA 16505

FAA/PMA PART

SERVICE INFORMATION LETTER

ISSUED: February 7, 2022

SUBJECT: Potential Incorrect Combination of Components in LORD J-9613 Series Engine Mount Kits

SCOPE: LORD has determined it is possible that a small number of LORD J-9613-series engine mount kits (identified below) may have been improperly packaged. Kits should contain two different rubber mounts (one single-layer mount and one two-layer mount), however kits with two mounts of the same type may have been packaged. An example of a mis-configured assembly is shown in Figure 1. A cross reference of the LORD part number with the applicable aircraft model and engine is shown in Table 1.

PART NUMBERS AFFECTED:

J-9613-12	J-9613-49
J-9613-19	J-9613-59
J-9613-29	J-9613-72
J-9613-40	

EFFECT: The effect of installing an incorrect combination of engine mounting components on an engine is not a safety of flight risk. If two J-7763 or two J-9612 components are installed as opposed to one of each, increased engine motion as well as reduced vibration performance may result. In addition, components may experience reduced service life prior to requiring on condition replacement in accordance with the maintenance manual inspection and replacement guidelines for each specific engine and aircraft installation.

INSPECTION: A simple visual inspection of installed mounts (or shelf stock) will quickly determine if the kit configurations are correct. The enclosed diagrams (Figure 2) depict the part numbers and correct configuration that are included in each kit. For installed kits, care should be taken to look for gaps between the bonded mount and airframe mounting as well as loose fitting components. In instances where the embossed part number is not clearly visible, owner/operators may use the number of elastomer layers of each bonded mount to help identify components and proper installation.

ACTION:

1. Owner/operators should visually inspect all shelf stock and the configuration of the installed engine mount assemblies to verify that it is in accordance with the specific aircraft and engine installation requirements.
2. Any mis-configured engine mount assemblies should be corrected in accordance with maintenance instructions or replaced with the correct part number configuration.
3. If replacement of one or more mis-configured assemblies is required, replacement engine mount assembly kits may be obtained from approved sources of supply.

FIGURE 1: EXAMPLE OF A MIS-CONFIGURED ENGINE MOUNT ASSEMBLY

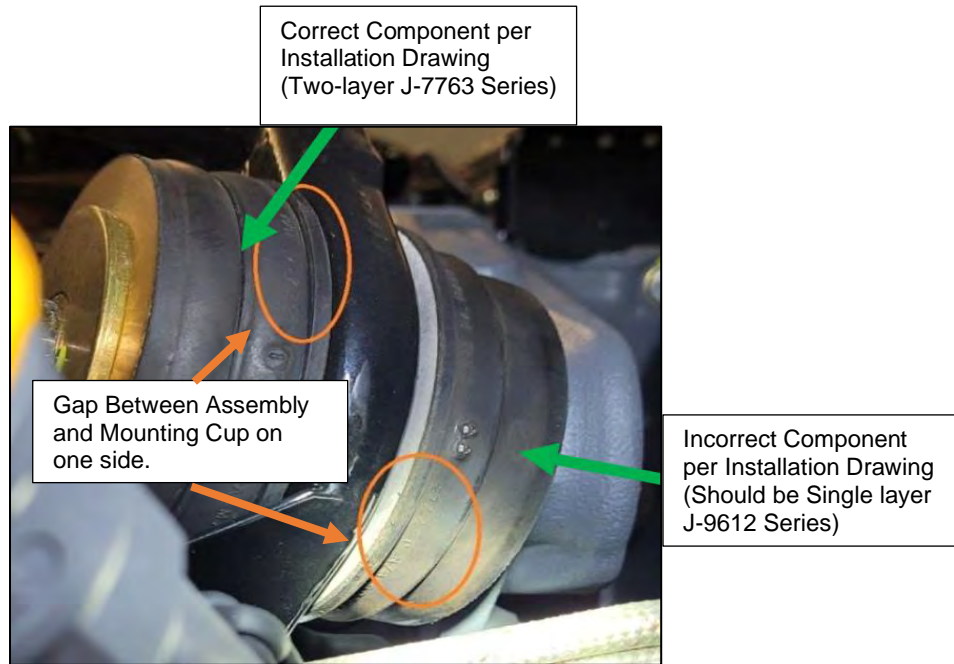


TABLE 1: LORD PART NUMBER - AIRCRAFT/ENGINE CROSS-REFERENCE

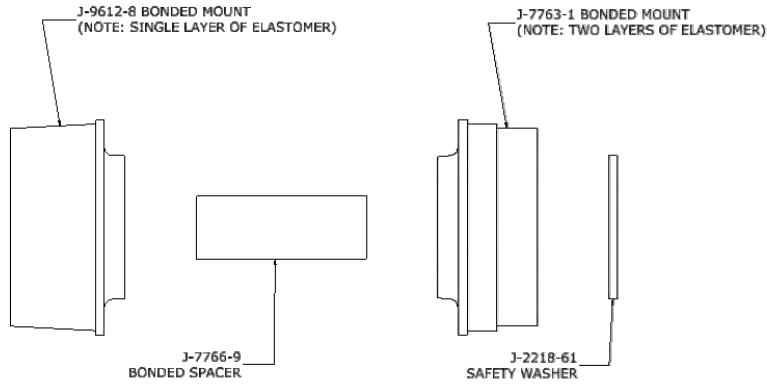
FAA/PMA Applicable Aircraft/Engines		
Part Number	Aircraft Model	Engine Model
J-9613-12	Piper PA-23-250	Lycoming O-540-A3D5 Lycoming IO-540-C1B5/-C4B5
	Piper PA-23-250T	Lycoming TIO-540-C1A
	Piper PA-28-236	Lycoming O-540-J3A5D
	Piper PA-31	Lycoming TIO-540-A1A/-A1B/-A2B/-A2C
	Piper PA-31-325	Lycoming TIO-540-F2BD Lycoming LTIO-540-F2BD
	Embraer EMB-820 (Eqv. PA-31-350)	Lycoming TIO-540 Lycoming LTIO-540
	Cessna T182	Lycoming O-540-L3C5D
	Cessna TR182	Lycoming O-540-L3C5D
	Cessna R172E	-
	Helio H-250	Lycoming O-540-A1A5
J-9613-19	Piper PA-30	Lycoming IO-320-B1A Lycoming LIO-320-B1A
	Piper PA-32-301	Lycoming IO-540-K1G5
	Piper PA-32R-301	Lycoming IO-540-K1G5D
	Piper PA-39	Lycoming IO-320-B1A Lycoming LIO-320-B1A

**TABLE 1: LORD PART NUMBER - AIRCRAFT/ENGINE CROSS-REFERENCE
 (continued)**

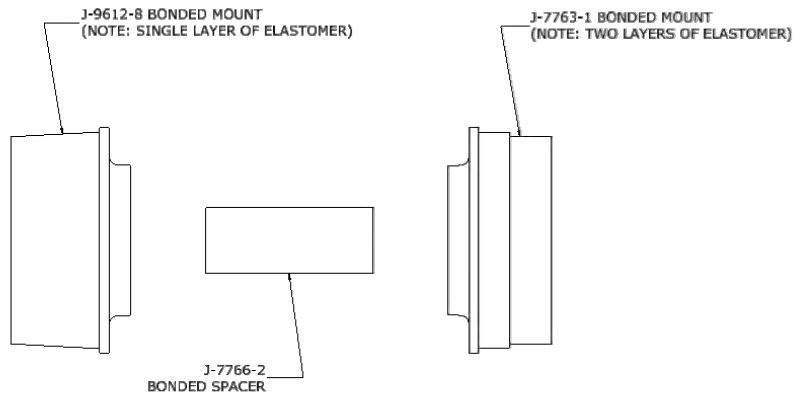
FAA/PMA Applicable Aircraft/Engines (continued)		
Part Number	Aircraft Model	Engine Model
J-9613-29	Piper PA-31-350	Lycoming TIO-540 Lycoming LTIO-540
J-9613-40	Piper PA-28-140	Lycoming O-320-E2A
	Piper PA-28-151	Lycoming O-320-E3D
	Piper PA-28-161	Lycoming O-320-D3G/-D2A
	Piper PA-28-180	Lycoming O-360-A4A/-A4M
	Piper PA-28R-180	Lycoming IO-360-B1E
	Piper PA-28-181	Lycoming O-360-A4M/-A4A
	Piper PA-28R-200	Lycoming IO-360-C1C/-C1C6
	Piper PA-28R-201	Lycoming IO-360-C1C6
	Piper PA-34-200	Lycoming LIO-360-C1E6
	Piper PA-44-180T	Lycoming TIO-360-E1A6D Lycoming LTIO-360-E1A6D
	Gulfstream American Model 111	Lycoming O-360-A4G/-A1G6
	Gulfstream American Model 112/112B	Lycoming O-360-C1D6
	Gulfstream American Model 112T/112TCA	Lycoming TO-360-C1A6D
	Socata 235C/E	Lycoming O-540-B4B5
Partenavia P68	Lycoming IO-360-A1B/-A1B6	
J-9613-49	Gulfstream American Model GA-7	Lycoming O-320-D1D
	Gulfstream American Model AA-5B	Lycoming O-360-A4K
	Cessna 172A	-
	Cessna 172B	-
	Cessna 172I through 172P	Lycoming O-320-E2D
	Cessna 172Q	Lycoming O-360-A4N
	Cessna 172RG	Lycoming O-360-F1A6
	Cessna 182R	Lycoming O-540-J3C5D
	Beech 76	Lycoming O-360-A1G6D
Beech 76TC	Lycoming TO-360-C1A6D	
J-9613-59	Gulfstream American Model AA-5B	Lycoming O-360-A4K
	Gulfstream American Model AG-5B	Lycoming O-360-A4K
	Cessna 177RG	Lycoming IO-360-A1B6
J-9613-72	Cessna 172RG	Lycoming O-360-F1A6

Note: Installers/operators must verify that the correct configuration engine mount is installed and is correctly installed per the aircraft and engine manufacturers recommended practices.

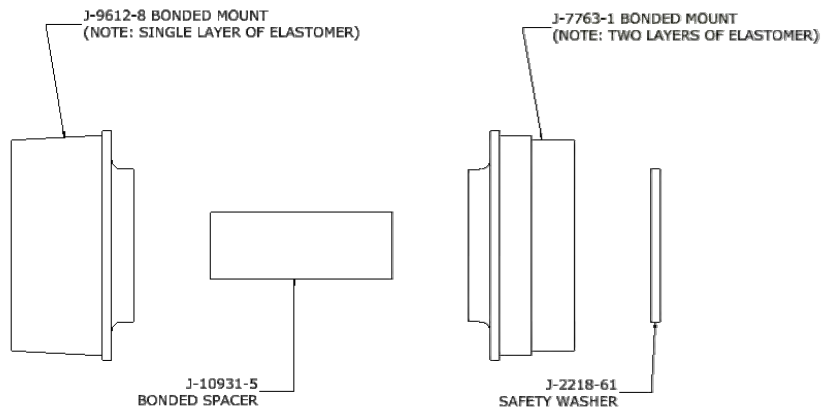
FIGURE 2: ENGINE MOUNTING ASSEMBLY KITS



**J-9613-12
 ENGINE MOUNTING ASSEMBLY KIT**

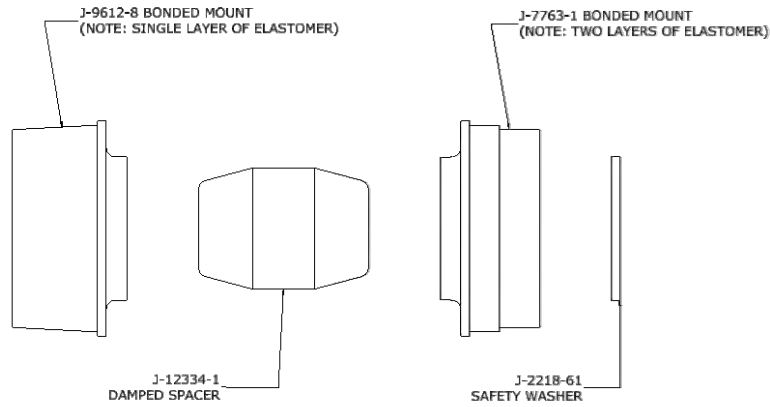


**J-9613-19
 ENGINE MOUNTING ASSEMBLY KIT**

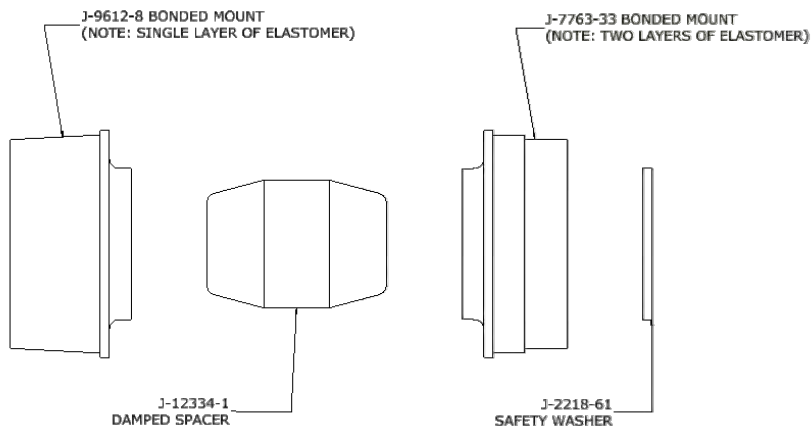


**J-9613-29
 ENGINE MOUNTING ASSEMBLY KIT**

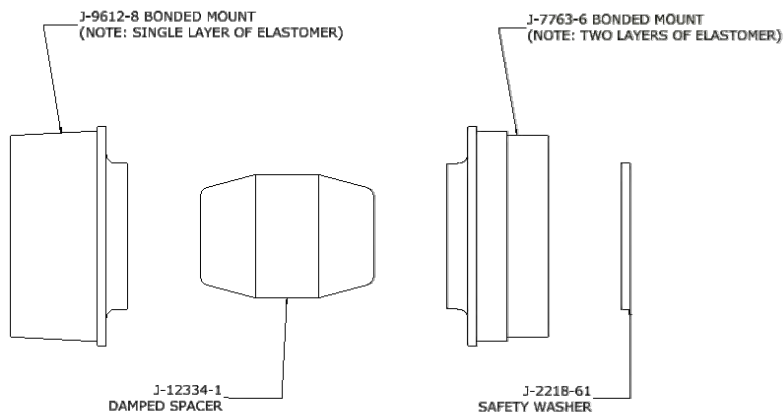
FIGURE 2: ENGINE MOUNTING ASSEMBLY KITS (continued)



**J-9613-40
 ENGINE MOUNTING ASSEMBLY KIT**

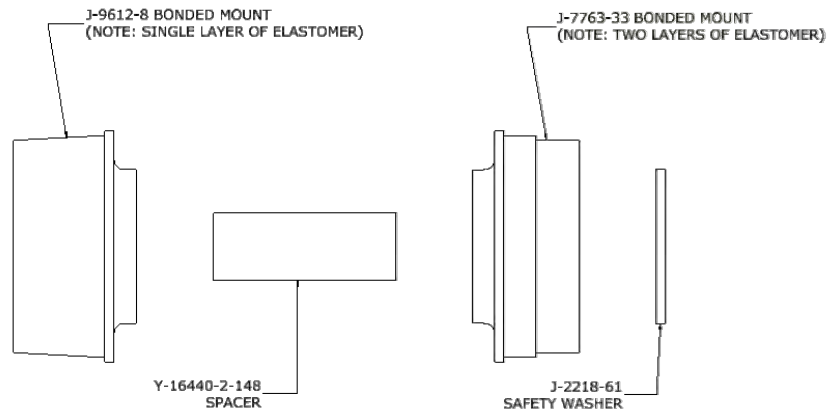


**J-9613-49
 ENGINE MOUNTING ASSEMBLY KIT**



**J-9613-59
 ENGINE MOUNTING ASSEMBLY KIT**

FIGURE 2: ENGINE MOUNTING ASSEMBLY KITS (continued)



**J-9613-72
 ENGINE MOUNTING ASSEMBLY KIT**

SUMMARY:

LORD identified that in some rare occurrences, the engine mount assembly kit, as referenced within, may have been improperly packaged and contains mis-configured assembly part numbers. Per this letter, applicable engine mounting assemblies should be visually inspected for mis-configured installations, and if found, replaced at the next earliest convenience or in accordance with the aircraft maintenance manual. Any questions regarding the content within this service letter may be directed to LORD customer and technical support or an approved source of supply.

LORD Customer and Technical Support:

+1 (877) 275-5673
 lord_aerotechsupport@parker.com
 M-F: 8:00am-5:00pm EST
 www.lord.com

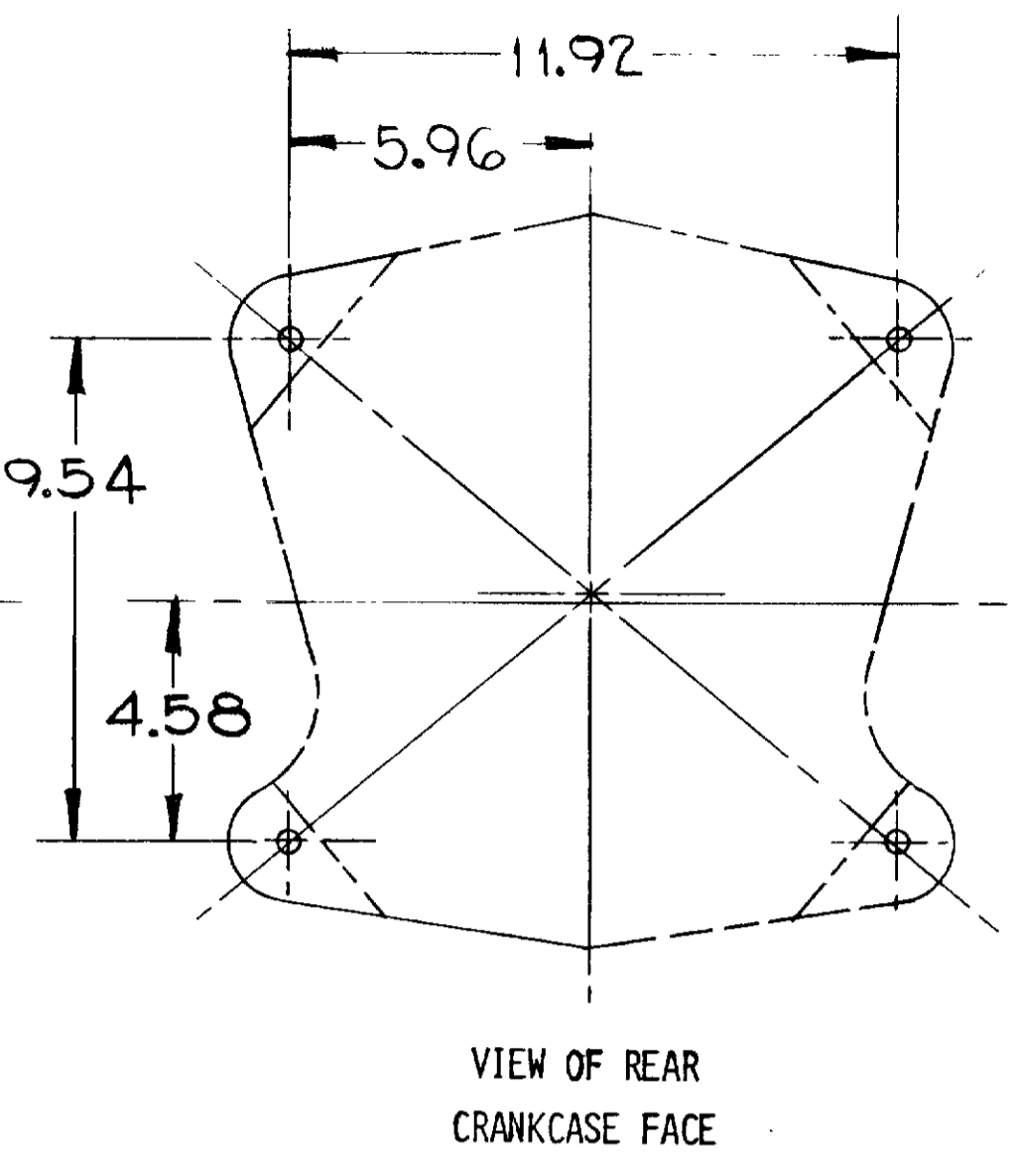
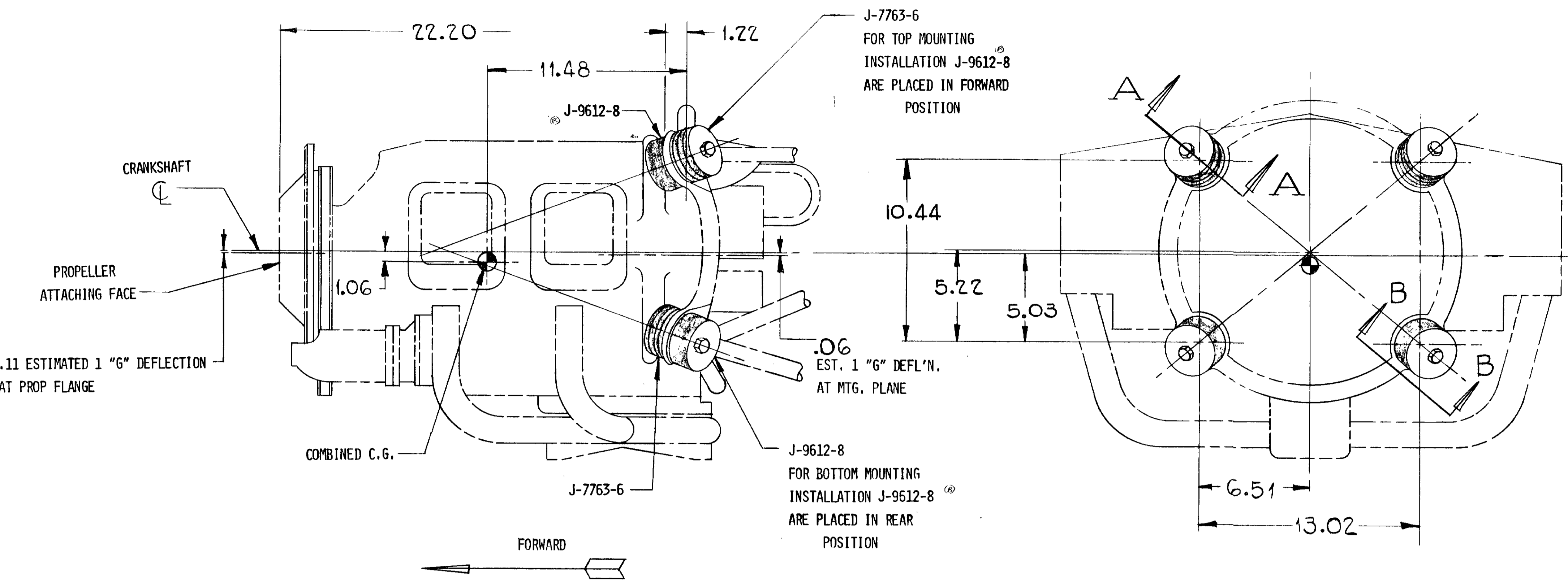
REVISION CONTROL:

Revision	Date	Description of Change(s)
-	February 7, 2022	Initial Release
A	March 8, 2022	Corrected engine model cross reference for Piper PA-44-180T

D S-6392 B

LET.	ALTERATION	DATE	CK.
A	10108	RGD	APL/7/76
B	34393	RGD	APL 4/18/77

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NOTES:

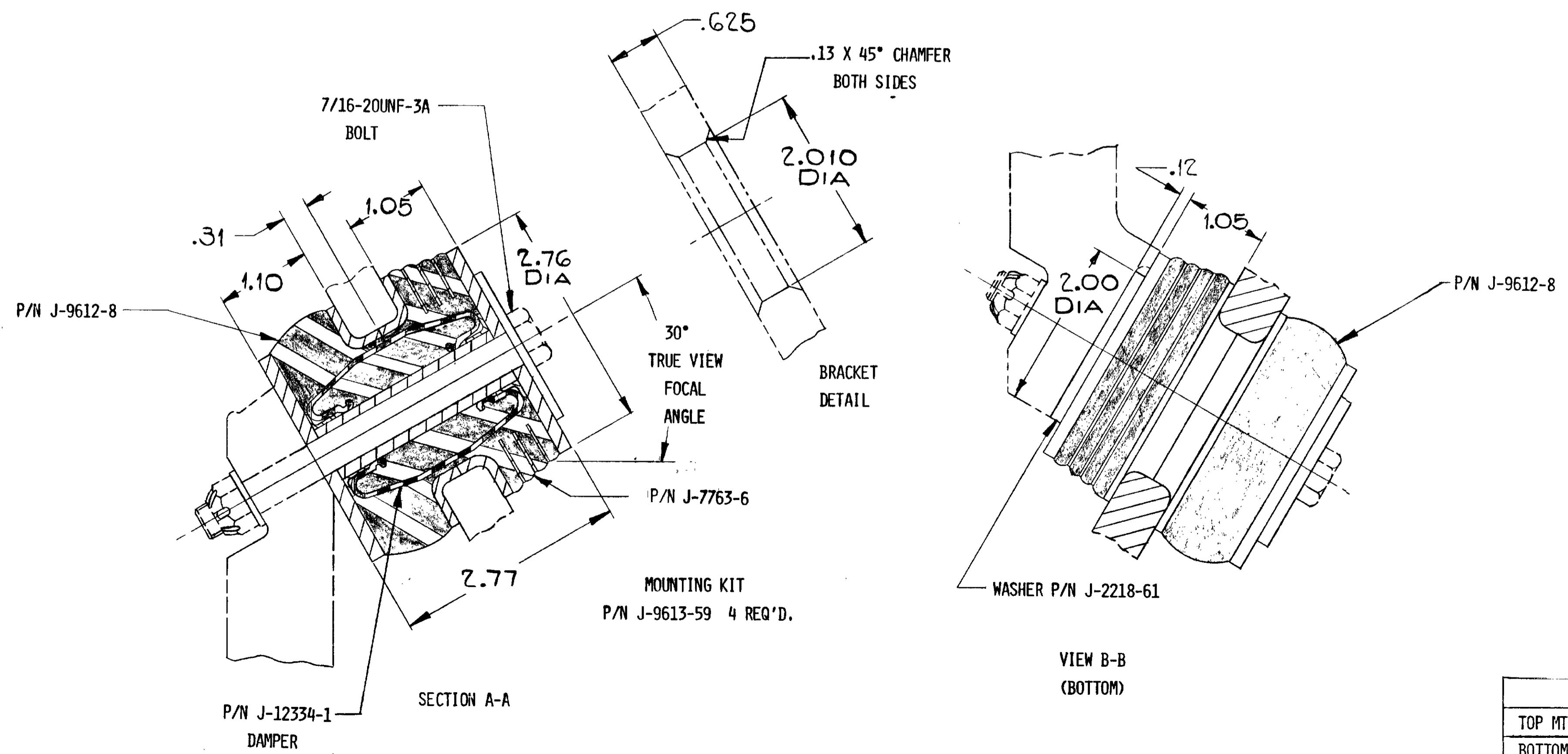
1. MOUNTINGS SHOWN PRECOMPRESSED BUT UNDER ZERO GRAVITY, TORQUE AND THRUST LOAD.
2. SYSTEM DIMENSIONS ARE TO THE CENTER OF THE AIRFRAME AND/OR ENGINE BRACKET.
3. ONE ENGINE SET CONSISTS OF FOUR J-9613-59 MOUNTING KITS, ONE J-9613-59 KIT CONSISTS OF ONE J-9612-8 MOUNTING, ONE J-7763-6 MOUNTING, ONE J-12334-1 DAMPER, AND ONE J-2218-61 WASHER.
4. PROVISIONS FOR THE FOLLOWING DISPLACEMENT OF ENGINE SHOULD BE ALLOWED TO PREVENT SHORT CIRCUITING THE VIBRATION ISOLATORS OR BREAKING OF EXTERNAL LINES, OR BINDING CONTROLS:

1'6" PLUS TAKE OFF TORQUE AND THRUST
 GRAVITY - .065 IN. AT C.G. PLUS 0° 9' NOSE DOWN PITCH
 TORQUE - 1° 31' COUNTER CLOCKWISE ROTATION
 THRUST - .027 IN. @ C.G.

MAXIMUM MOTIONS

TORSIONAL ROLL	FROM VERTICAL	----- ± 3° 17'
PITCH ROTATION	----- ± 1° 43'	
YAW ROTATION	----- ± 1° 25'	
LATERAL DISPLACEMENT	----- ± .098 IN. @ C.G.	
THRUST DISPLACEMENT	----- ± .135 IN. @ C.G.	
VERTICAL DISPLACEMENT	----- + [.31 IN. @ C.G. PLUS 0° 22' NOSE DOWN PITCH]	
	----- - [.16 IN. @ C.G. PLUS 0° 11' NOSE UP PITCH]	

5. ENGINE AND AIRFRAME DIMENSIONS ARE FOR REFERENCE ONLY. FOR DESIGN PURPOSES REFER TO ENGINE MANUFACTURERS INSTALLATION DRAWING.



PARTS LIST FOR ENGINE	
TOP MTG. POINTS (SEE SECTION A-A)	2 PCS, J-9613-59
BOTTOM MTG. POINTS (SEE VIEW B-B)	2 PCS, J-9613-59
	2 PCS, J-2218-61

UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS IN INCHES
 BREAK SHARP EDGES & REMOVE BURRS
 DO NOT SCALE DRAWING
 TOLERANCES: XX DECIMALS ± .015
 XXX DECIMALS ± .005
 VE FRACTIONS ± 1/32
 ANGLES ± 2°

LORD Lord Kinematics Erie, Pa. 16512

DYNAFOCAL INSTALLATION FOR
 LYCOMING IO-360A1B ENGINE

DR. D. R. Valiga 5/18/76
 ENGR. APP. D. R. Valiga
 CHK. D. R. Valiga 5-24-76

SIZE D DRAWING NO. S-6392