INSTRUCTION – FIREPROOF GROMMET
TN01056

RECORD OF REVISIONS

When updated document changed in its entirety

REV	DATE	DESCRIPTION	BY	APPROVAL
B	JUL-11-2017	Add grommet modification information	DNE	Dirk N. Ellis
A	DEC-30-2014	Change instruction title	GDO	DNE
-	NOV-23-2010	Previous date controlled Release	DNE	RCK

PURPOSE

Outline installation of Fireproof Grommet Kit TG01056. Instructions provided as guidance only.

REQUIREMENTS

- Sealant - Required and not supplied with kit - PS 700 sealant 1.0 to 3 oz. (0.03 to 0.09 kg). or applicable Aircraft Manufacturer approved firewall sealant. Alternate: DAPCO 2100 Type 1 or equivalent. Approval references specs: Boeing BMS 5-63 Rev. N, Class B4, Type II, Bombardier BAMS 552-004 Class 2, SAE AMS 3374 Rev. D, Class 2, AIMS 04-05-003, AIMS 04-05-008, or CMNP009.
- Hardware - Use supplied mounting hardware or equivalent aeronautical quality AN, MS, NAS, etc.
- Installation - For penetration, potting, and marking/labeling, reference applicable Aircraft Maintenance Manual, and AC 43.13-1 (as amended), Chapter 3, and Chapter 11 Section 17 11-236 through 11-240, and Chapter 19.
- Records - Installation to be recorded and aircraft released into service by appropriately rated technician and/or maintenance repair facility.
- FAA approval is required when locating in structural location (Form 337).

INSTALLATION

Reference Figure 1, assembly conforms to 14 CFR Part 23-1191/AC 20-135.

Parts stacked and sealed with applicable firewall sealant.

1. Locate cable feedthrough site for grommet installation.
2. Using grommet retainer as template, match drill two screws holes, and pilot hole for cable feedthrough. Note: Center feedthrough pilot hole between screw holes and verify centered with grommet.
3. Measure outside diameter (O.D.) of cable and add 0.375 in. (10 mm). Measurement total used as edge-gap dimension for cable feedthrough hole.
4. Center and cut feedthrough hole with edge-gap dimension (from above) and deburr.
   Note - Maximum usable cable O.D.: 0.52 in. (13.2 mm).
   Maximum allowable feedthrough hole diameter: 0.89 in. (22.6 mm).

5. Fit grommets and seals to cable.
   Grommets and seals supplied with 0.25 in. (6.35 mm) holes.
   a. Cable with same or smaller O.D.: Grommet and seal not modified, gap filled with sealant at assembly.
   b. Cable with larger O.D.: Modify grommet and seal to match cable O.D.
   c. Modify grommet and seal, by hand cutting, hole punch, or slow drilling.
      Note - Maximum allowable grommet hole size: 0.52 in. (13.2 mm).
6. Assemble loose with cable passing through components and feedthrough hole.
   Note - Suggest test fitting with hardware before applying sealant, reference Step 8.
7. Apply sealant to faying surfaces and fill all voids, in structure, grommets, and screw holes.
8. Tighten screws evenly, alternating from side to side compressing and setting stacked assembly to structure. Avoid distorting grommet retainers and torque. Torque not to exceed 30 inch pounds (3.4 Nm).
9. Fill remaining voids and cap exposed grommet surface with sealant, 0.125 +/- 0.075 in. (3.2 +/- 2.0 mm) thick.
10. Record modification per 14 CFR Part 43.9 and/or as required by operator.

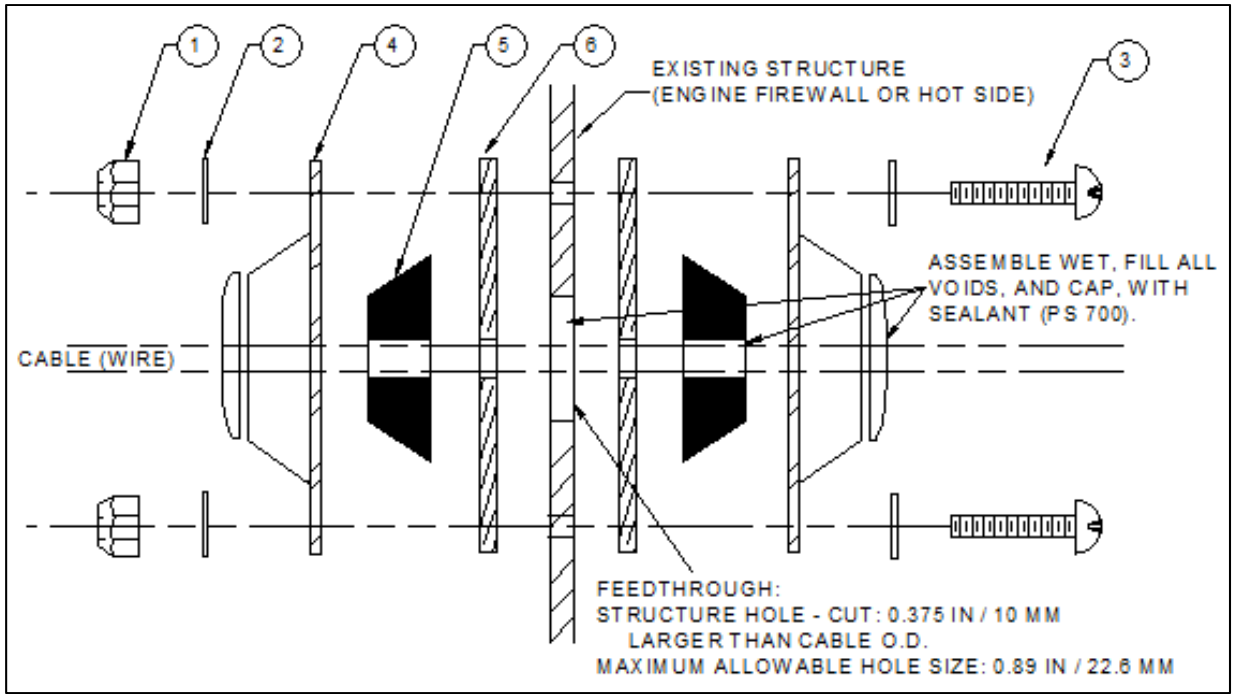

Figure 1 – Fireproof Grommet assembly.

1) Qty 2 - Nut, MS21045-3
2) Qty 4 - Washer, NAS1149F0316P
3) Qty 2 - Screw, MS35207-264
4) Qty 2 - Grommet Retainer, 1056-A
5) Qty 2 - Grommet, 1056-B
6) Qty 2 - Seal (Fiberfrax), 1056-C

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