

	Standard Modification Issue 1	Mod No. SM11174
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		Compiled : N. Batty
		Approved : A. Moore

TITLE : Firewall Penetrations

APPLICABILITY : Vans RV Series

Mod Type : New Build

1. Introduction

Standard firewall penetrations use plastic bushings in combination with high temperature silicon sealant. This modification provides a long tubular seal path and load bearing area. This is achieved by using a flanged Aluminium tube held in place by a stainless steel firewall shield. The seal is completed with high temperature Silicon sealant.

This modification should eliminate the danger of wires, control cables chaffing and reduces the possibility of ingress by both Carbon Monoxide gasses (CO) and Fire into the cockpit.

2. Parts List

2.1 Manufacture and procure the following new parts:

Qty	Part No.	Description	Source
A/R	SSFS-xxxxx	Firewall Shield	Vans Aircraft (Size to Fit)
A/R	SM11174-01	Aluminium Tube	Fabricate as per SM11174-1
A/R	AN515-8R8	Screws	Vans Aircraft
A/R	AN365-832A	Nuts	Vans Aircraft
A/R	AN960-8	Washers	Vans Aircraft

2.2 List of related drawings / photos

Drawing No.	Title / Description	Issue
SM11174-01	Firewall Tube	1
SM11174-02	Installation Photograph	1

3. Action

3.1 Select Internal Diameter (ID) of penetration.

3.2 Manufacture flanged tube (SM11174-01 Shows) to give required ID and flange size to fit from Vans Range of Stainless Steel Firewall Shields.

3.3 Cut hole in Firewall location, and Firewall Shield.

3.4 Place assembly on Firewall & drill through fixing holes.

3.5 Fix assembly in position sealing flange and shield to firewall with High Temperature Silicon (RTV N^o736), as per SM11174-2

3.6 Following final positioning of Cables/Wires seal both sides by injecting further sealant into both side of tube.

3.7 Inspector to inspect and verify conformity & workmanship.

4. Flight Test and Special Inspections

4.1 No flight test or report required.

5. Weight and Balance

5.1 Additional weight will be included in initial weight & balance schedule.

6. Certification

6.1 Appropriate logbook entry to be made by approved LAA inspector.



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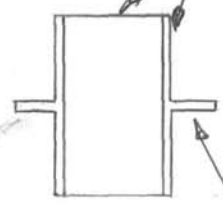
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SM11174

UP + OD ADJUSTED TO
ACCOMMODATE CABLES
OR WIRES



FLANGE + WALL THICKNESS TO
BE MINIMUM OF .062"

FLANGE TO BE MINIMUM OF 3/4"

PART TO MACHINED FROM ALUMINUM

REV.	BY	DATE	DESCRIPTION

MODIFICATION APPLICATION

DESIGN BY R. GARROTT	DATE 15.08.04	DESIGN TITLE FIREWALL PENETRATION
DATE 26-8-04	REVISED BY VANS RWA	REVISED DATE 9-REVIX
REVISED BY NTS	REVISED DATE 320-1379	REVISED DATE SM 11174
REVISED BY G-REVIX	REVISED DATE 5-REVIX	REVISED DATE DWG SHEET 1 OF 1



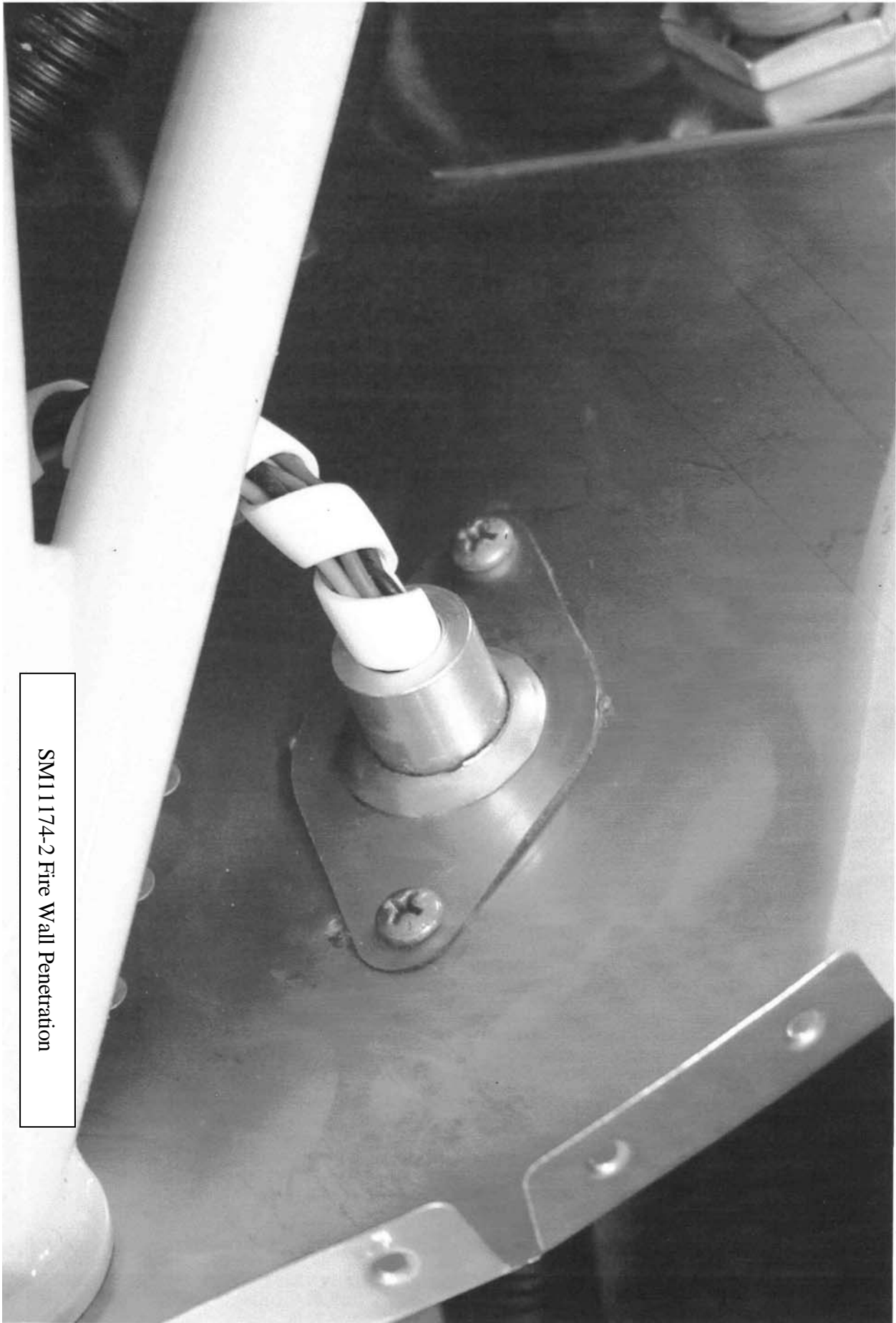
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SM11174-2 Fire Wall Penetration