

"North River Aviation" Model 8400 brake booster assemblies and modification of Scott Aviation Model B-711 Brake Master Cylinders

Installation Instructions



Addendum to Installation Instructions on Drawing No 8400

A1. After completing the installation of the brake booster, it is necessary to fill out FAA-Form 337, Major Repair and Alteration (Airframe, Powerplant, Propeller, or Appliance), in addition to making the logbook entry specified in Instruction 4 on Page 2 of Drawing No. 8400. Make the following notation in Item 8 of the Form 337 (Description of Work Accomplished) : "Installed Northern Piper Aviation brake booster in accordance with Northern Airframes Drawing No. 8400 and STC No. ______. Weight change is negligible."

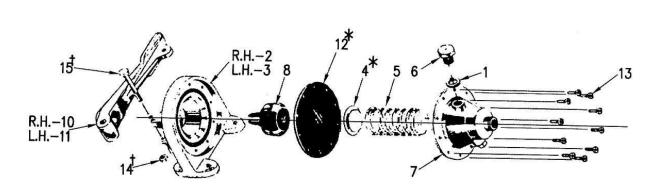
A2. To be eligible for installation of the brake booster, the airplane must be equipped with FAA approved high-pressure brake lines. "FAA approved high-pressure brake lines" are brake lines which the FAA has found to be sufficiently flexible for their intended purpose, compatible with MIL-H-5606BB (red) hydraulic fluid, and capable of sustaining an ultimate hydraulic pressure of 2547 PSA for at least 3 seconds without failure or leakage; and which the FAA has approved for installation on the airplane. Any wheel/brake assembly installed on an airplane equipped with the brake booster must have a brake FAA approved for a maximum available hydraulic pressure of at least 1698 PSI as defined by the brake's original certification basis (TSO-c26, TSO-C26a, TSO-C26b, or TSO-C26c; or the airplane's certification basis if the brakes were approved as part of the airplane type design).

A3. The STC Number to be entered in the airplane logbook and in Item 8 of the FAA form 337 must be the correct one for the make and model of airplane modified, as shown on the following list:

SA2318NM
SA3633NM
SA3634NM
SA3635NM
SA4629NM
SA4653NM
SA SA

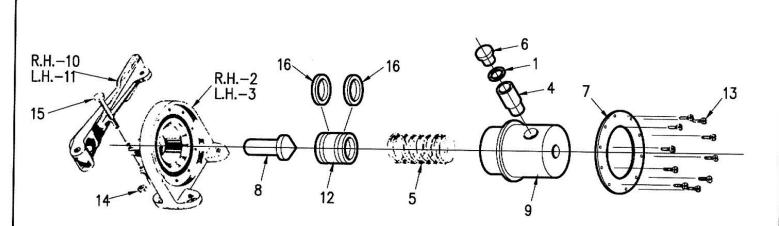
Drawing No. 8400A Date 8-13-85

Revision B	Rev Date: 6-29-90
Revision C	Rev Date: 11-19-91
Revision C	Rev Date: 8-1-04
Revision E	Rev Date: 3-13-08



SCOTT, MODEL B-711

2 -201				PARTS					
ref. No.	PART NO.	NAME		NO. REQ.	REF. NO.	PART NO.	NAME		NO. REQ.
1	1159	GASKET-VE	ENT SCREW	1	8	1383	PISTON		1
2	1220	BRACKET -	- R.H. UNIT	1	10	1712	PEDAL - R.H	I. UNIT	1
3 4*	1232	BRACKET -	- L.H. UNIT	1	11	1714	PEDAL - L.H		1
	2003	PAD-DIAPH	IRAGM	1	12*	1751	DIAPHRAGM		
5	1256	SPRING		1	13	AN500-8-8			10
6	1258	SCREW-VEN	NT	1	14 [†]		2 LOCK NUT		1
7	2728	COVER-CO	MPRESSION	1	15 [†]	AN3-15A	BOLT-AIRCRA	NFT	1
† (A)	NOTE: S AN380-2	OME SCOTT MO -2 COTTER AN	ER TO PAGE OD. B-711 A ND AN960-10	SSYS. MAY H	iave ai Jestitu	V393–51 CLI TED FOR ITE	EVIS PIN, MS 14 & 15.		
† (A) * (B)	NOTE: S AN380-2 NOTE: N	OME SCOTT MO -2 COTTER AN	OD. B-711 A ND AN960-10 MODEL B-711	SSYS. MAY H D WASHER SU	JBS1110	ted for ite	EVIS PIN, MS 14 & 15. RAGM AND PIN		
\bigcirc	NOTE: S AN380-2 NOTE: N	OME SCOTT MO -2 COTTER AN EWER SCOTT N	OD. B-711 A ND AN960-10 MODEL B-711	SSYS. MAY H D WASHER SU	JBS1110	ted for ite	MS 14 & 15.		
\bigcirc	NOTE: S AN380-2 NOTE: N	OME SCOTT MO -2 COTTER AN EWER SCOTT N	OD. B-711 A ND AN960-10 MODEL B-711	SSYS. MAY H D WASHER SU	JBS1110	ted for ite	MS 14 & 15.		
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\bigcirc	NOTE: S AN380-2 NOTE: N	OME SCOTT MO -2 COTTER AN EWER SCOTT N	OD. B-711 A ND AN960-10 MODEL B-711	SSYS. MAY H D WASHER SU	JBS1110	ted for ite	MS 14 & 15.		
* B	NOTE: S AN380-2 NOTE: N 2003-1 [OME SCOTT MO -2 COTTER AN EWER SCOTT N DIAPHRAGM PAI	OD. B-711 A ND AN960-10 MODEL B-711	SSYS. MAY H D WASHER SL ASSYS. HAN	JESTITU ÆPIN	ted for ite	MS 14 & 15. Ragm and Pin	AS LISTED	PER PART
* B B B B B B B B B B B B B B B B B B B	NOTE: S AN380-2 NOTE: N 2003-1 E PROPERTY O UNAUTHORIZED POSESSION IS	OME SCOTT MO -2 COTTER AN EWER SCOTT N IAPHRAGM PAI NAPHRAGM PAI F NORTHERN REPRODUCTION, PROHIBITED.	OD. B-711 A ND AN960-10 MODEL B-711 D.	SSYS. MAY H WASHER SU ASSYS. HAN	CJW AS	USTED AS US	MS 14 & 15. RAGM AND PIN TED AS LISTED SIZE	DESCRIPTION	PER PART SPECIFICA
* B B B B B B B B B B B B B B B B B B B	NOTE: S AN380-2 NOTE: N 2003-1 [2003-1 [PROPERTY O UNAUTHORIZED POSESSION IS	OME SCOTT MO -2 COTTER AN EWER SCOTT N DIAPHRAGM PAI NAPHRAGM PAI REPRODUCTION, PROHIBITED. BEND LINES DE DIM.	OD. B-711 A ND AN960-10 MODEL B-711 D. D 03-13-2008 C 07-21-1985 B 07-21-1985	SSYS. MAY H D WASHER SU ASSYS. HAN ASSYS. HAN CHANGE COMPANY NAME CHANGE COMPANY	CJW AS	LUSTED AS LIS RT NO. REG	MS 14 & 15. RAGM AND PIN TED AS LISTED SIZE	DESCRIPTION MATERIAL	
* B DATA IS ES, LLC. O ISFER OR ISFER OR SOTHERY PECIFIED ALE-FULL	NOTE: S AN380-2 NOTE: N 2003-1 [2003-1 [POPERTY O UNAUTHORIZED POSESSION IS MSE OUTS BEND	OME SCOTT MO -2 COTTER AN EWER SCOTT M DIAPHRAGM PAI DIAPHRAGM PAI DIAPHRAGM PAI PROPUBLINES DE DIM. LINE	OD. B-711 A ND AN960-10 MODEL B-711 D. D 03-13-2008 C 07-21-1985 B 07-21-1985 A 07-02-1985	SSYS. MAY H D WASHER SU ASSYS. HAN ASSYS. HAN CHANGE COMPANY NAME CHANGE COMPANY NAME ADDED NOTE ADDED NOTE	CJW AS PJM PJ	LISTED AS LIS RT NO. REG PAGE:	MS 14 & 15. RAGM AND PIN RED AS LISTED SIZE	DESCRIPTION MATERIAL BARE	SPECIFICA
* B B B B B B B B B B B B B B B B B B B	NOTE: S AN380-2 NOTE: N 2003-1 [2003-1 [POPERTY O UNAUTHORIZEI POSESSION IS MSE OUTS BEND ± .015	OME SCOTT MO -2 COTTER AN EWER SCOTT M DIAPHRAGM PAI DIAPHRAGM PAI NOTE	OD. B-711 A ND AN960-10 MODEL B-711 D. D 03-13-2008 C 07-21-1985 B 07-21-1985 A 07-02-1985 NO. DATE	SSYS. MAY H D WASHER SU ASSYS. HAN ASSYS. HAN CHANGE COMPANY NAME CHANGE COMPANY NAME ADDED NOTE	CJW AS PJM PJ BY	LUSTED AS LIS RT NO. REG	MS 14 & 15. RAGM AND PIN TED AS LISTED SIZE FINISH: BRAKE BOO	DESCRIPTION MATERIAL	SPECIFICA



MODIFIED BRAKE BOOSTER ASSEMBLY

PARTS LIST REF. NO. PART NAME NO. REF. PART NAME NO. NO. REQ. NO. NO. REQ. SCOTT 1159 1 GASKET-VENT SCREW 1 9 8404 CYLINDER 1 2 SCOTT 1220 BRACKET - R.H. UNIT 1 10 SCOTT 1712 PEDAL - R.H. UNIT 1 3 SCOTT 1232 BRACKET - L.H. UNIT 1 11 SCOTT 1714 PEDAL - L.H. UNIT 1 4 8406 ADAPTER 1 12 8402 PISTON 1 5 8403 SPRING 1 13 AN500-8-8 SCREW 10 6 SCOTT 1258 SCREW-VENT 1 14 AN356-1032 LOCK NUT 1 7 8405 RETAINER-CYLINDER 1 15 AN3-15A BOLT-AIRCRAFT 1 8 8401 PLUNGER 1 16 MS28775-020 "O" RING 2

INSTALLATION INSTRUCTIONS:

- 1. INSTALL THE FOLLOWING PARTS AS SHOWN: REFERENCE PARTS LIST NUMBER 4, 5, , 8, 9, 12 AND 16. (CAUTION) REF. NO. 5 SPRING MUST BE CENTERED AT BOTH ENDS IN THE PISTON AND CYLINDER DURING ASSEMBLY. THIS CAN BE VISIBLY CHECKED AFTER ASSEMBLY BY LOOKING THROUGH THE HOLE IN THE END OF THE CYLINDER.
- 2. BLEED THE BRAKE SYSTEM AND FILL THE RESERVOIR WITH MIL-H-5606 (RED FLUID).
- 3. CHECK THE BRAKES FOR PROPER OPERATION.
- 4. MAKE THE FOLLOWING LOGBOOK ENTRY: "INSTALLED NORTHERN AIRFRAMES BRAKE BOOSTER IN ACCORDANCE WITH DRAWING No. 8400 AND STC #_____, WEIGHT CHANGE NEGLIGIBLE."

THIS DATA IS PROPERTY OF NORTHERN AIRFRAMES, LLC. UNAUTHORIZED REPRODUCTION, TRANSFER OR POSESSION IS PROHIBITED.		D	03-13-2008	NALIE	COW			STED AS L	ISTED	AS LISTED	PER PART NO.
		С	07-21-1985	CHANGE COMPANY	P.M	PART NO.	NO		ZE	DESCRIPTION	SPECIFICATION
TOLERANCES	BEND LINES	в	07-21-1985	INAME	PJM	FARI NU.	REC	REQ. MATERIAL			
UNLESS OTHERWISE SPECIFIED OUTSIDE DIM.		A	07-02-1985		PJM	PACE		FINISH:	BARE		
SCALE=FULL UNDIMENSIONED= ± .015			DATE	REVISIONS	BY	2 OF 2	BRAKE BOOSTER INST			L, ASS'Y	
ANGLES = \pm 1° .00 = \pm .030 .000 = \pm .005	ALL BEND RADII ARE INSIDE UNLESS OTHERWISE NOTED.	N		AIRFRAMES LI Alaska 99567	LL.	DWG: PETER J. DATE: 08-01	MAUS		APROVED: DATE:	DICK ROBERTS JR. 03-13-2008	DRAWING NUMBER 8400