Cleveland
Wheels & Brakes

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PRODUCT REFERENCE MEMO

ALTERNATE CYLINDER CONNECTING LINE INSTALLATION
FOR BRAKE MODEL 30-146

APPLICABILITY: All aircraft converted to Cleveland Main Wheels and Brakes per Parker Hannifin, Aircraft Wheel & Brake Conversion Kit No.199-110, per STC's SA646GL, SA650GL and SA890GL:

Beech Models 99, 99A, A99A, B99, C99, 100, A100, B100, F90, 200, 200C, 200CT, 200T, A200, A200C, A200CT, B200, B200C, B200CT and B200T

PURPOSE: Provides for fabrication and installation of an alternate cylinder connecting line. Use of alternate line gives added brake to ground clearance for operations on unimproved runways.

NOTE: This is an OPTIONAL installation.

PROCEDURE: At owner's discretion:

1. Jack aircraft and remove wheels and brakes per Manual.

2. Remove existing hose assembly P/N 207-01600 and fittings P/N 104-04900 from each brake.

3. Install 90° fittings, P/N 104-03100 (Parker 4-C50X), one in each cylinder positioned, as in Figure 1.

4. Fabricate a brake line, bent as shown in Figure 1, cut and double flared to length needed for proper fit. Brake line to be made of 1/4" stainless steel brake line with AN819-4 sleeves and AN818-4 nuts. Fabrication to be per "Airframe and Powerplant Mechanics General Handbook", FAA publication EA-AC65-9A, Chapter 5.

5. Install brake line, as shown in Figure 1, and tighten per above referenced handbook.

6. After line nuts and fittings are tightened, assure that both cylinders slide freely (as a unit) in the torque plate. If not, adjust tubing bend as needed for a free fit.

7. Repeat procedure for all four (4) brakes, then reinstall wheels and brakes per manual.

8. Bleed brake system and remove aircraft from jacks.

9. Make a log book entry referencing this activity and return the aircraft to service.

1/4" STAINLESS STEEL
BRAKE LINE
LENGTH AS REQUIRED

104-03100 FITTING
(PARKER 4-C50X)
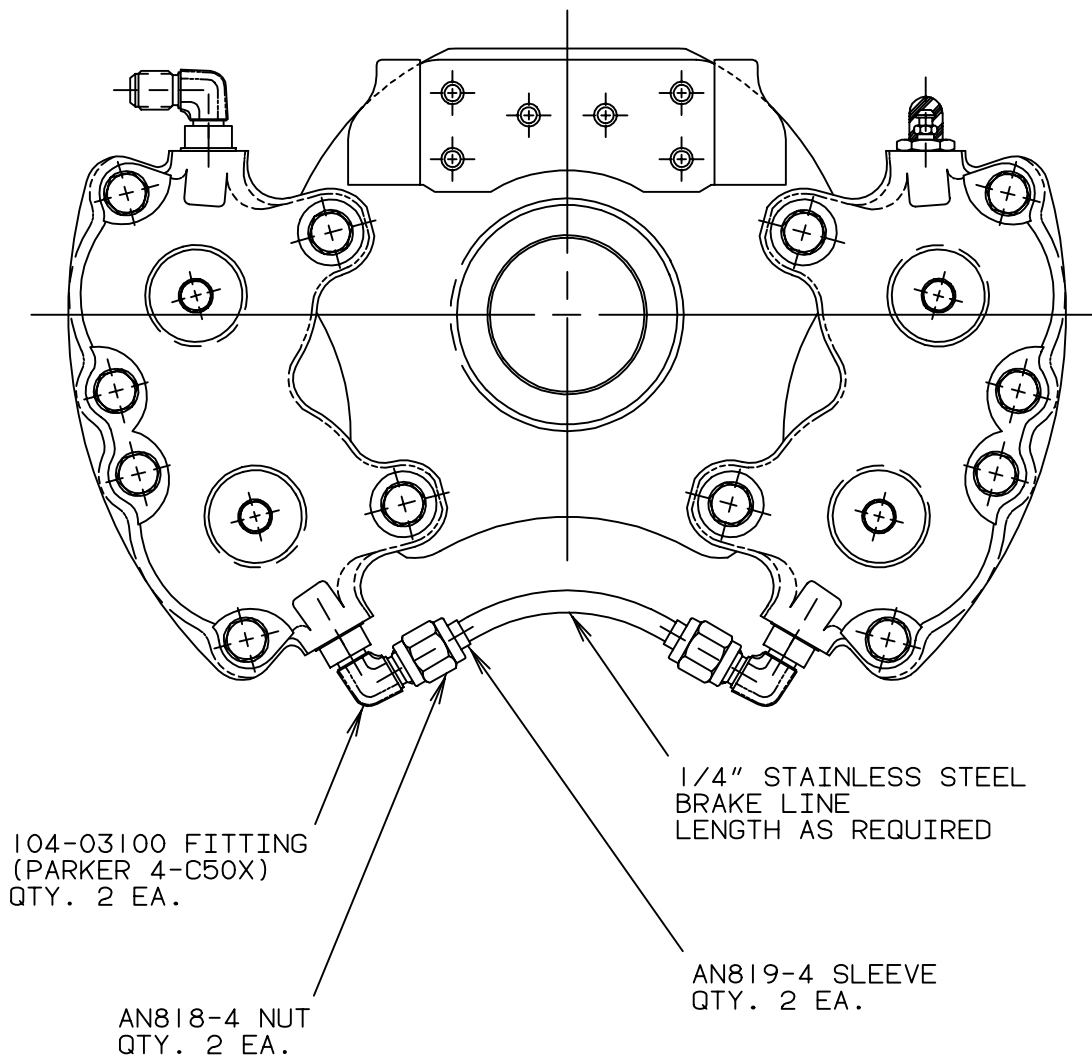QTY. 2 EA.

AN819-4 SLEEVE
QTY. 2 EA.

AN818-4 NUT
QTY. 2 EA.

Figure 1
30-146 Brake Assembly - Connecting Hose Modification