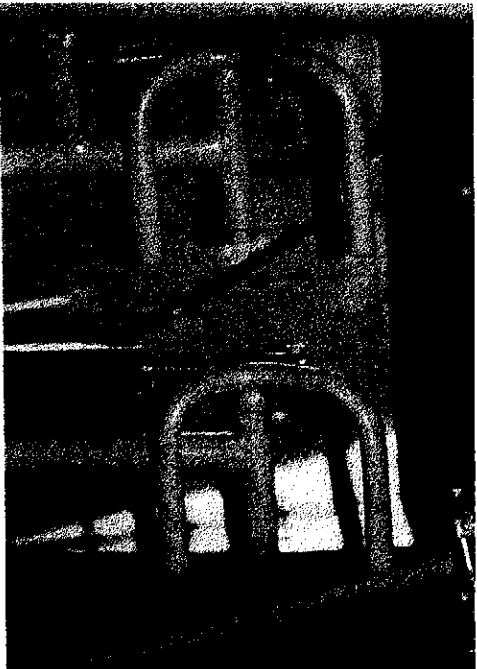


BRAKING SYSTEM Sub-Section "B"

SINGLE BRAKE PEDALS

STEP 1: INSTALL GEAR WELDMENTS

Install the assembled (Hub, Calipers, etc.) Landing Gear Weldments onto the fuselage.



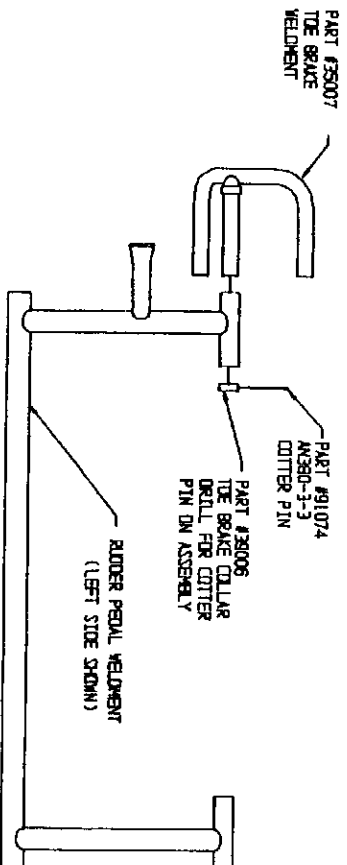
Toe Brake Pedals

STEP 2: TOE BRAKE PEDALS

Slide the P/N 35007 Toe Brake Pedals through the Rudder Pedals, with the tabs on the Brake Pedals pointing forward. Then slide the P/N 39006 Collars onto the ends of the Brake Pedals and drill a 3/32" hole through the Collar and Brake Pedal for the AN380-3-3 Cotter Pin. See Fig. LG-B-1.

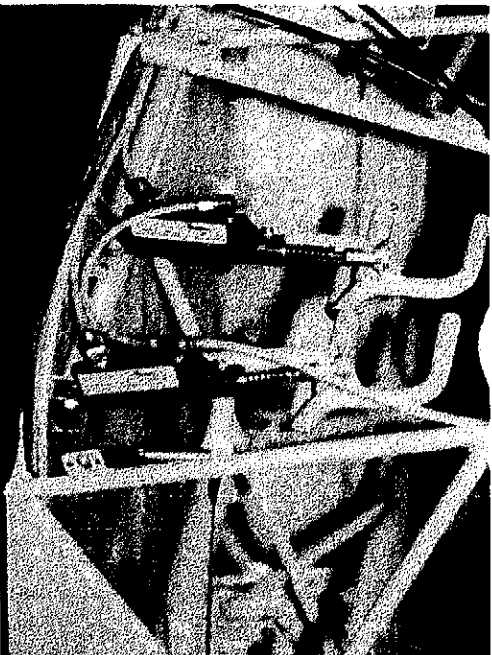
STEP 3: FITTINGS ON BRAKE LINES

Install four 90° Elbow P/N 94024 Fittings in the P/N 39003 Master Cylinder Assembly. Finger tighten only at this point. Use thread lubricant.



Brake Pedal Assembly Details
Fig. LG-B-1

SkyStar Aircraft Corporation					© 1992	
MODEL	ASSEMBLY	REVISION	DATE	SECTION	PAGE	
4-1200	Sub-Section "B" Braking System		Sept. 1, 1993	Landing Gear	LG-B-1	



Master Cylinder installation

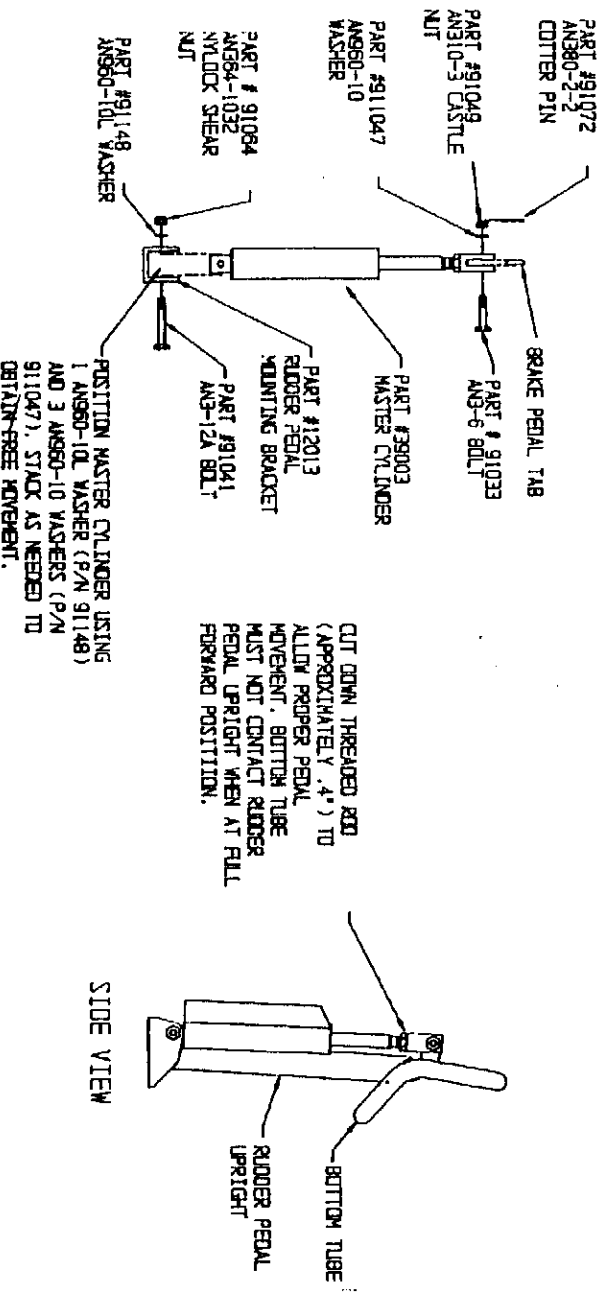
INSTALL MASTER CYLINDER

STEP 4: ATTACH MASTER CYLINDERS

The Master Cylinders go in between the Rudder Pedal Brackets and Brake Pedals, with the bottom fittings pointing to the left, and top fitting pointing up. Attach them to the Brake Pedals with AN3-6 Bolts, AN310-3 Nuts, and AN960-10 Washers. Attach the Master Cylinders to the Brackets with AN3-12A Bolts, AN364-1032A Ny-Shear Nuts, and AN960-10L Washers. Refer to Fig. LG-B-2. Tighten the elbow fittings and orientate as shown.

STEP 5: ADJUST BRAKE PEDALS

The Brake Pedals can be adjusted by turning the upper attach fitting on the Master Cylinder stem - in or out as necessary for desired Pedal location. Adjust so that the P/N 35007 Pedal bottom tube contacts (or just barely touches) the Rudder Pedal at full rudder deflection.



Master Cylinder Mounting Details
Fig. LG-B-2

MODEL	ASSEMBLY	SkyStar Aircraft Corporation			REVISION	DATE	SECTION	PAGE
4-1200	Sub-Section "B" Braking System	© 1992				Sept. 1, 1993	Landing Gear	LG-B-2

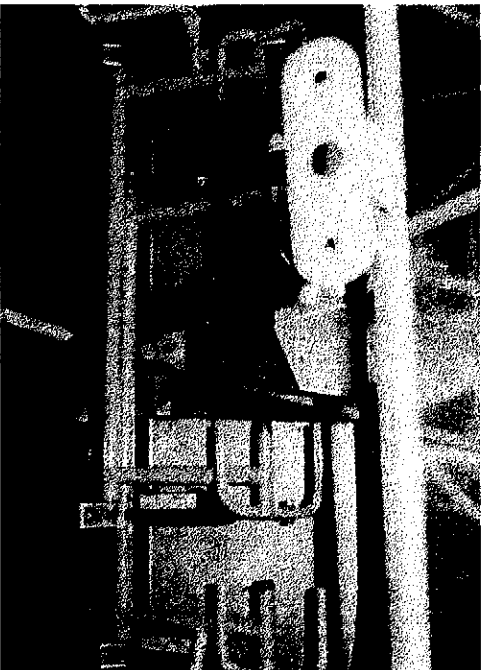
INSTALL DUAL BRAKE

STEP 7: INSTALL BRAKE FITTINGS

Install the 4 P/N 39005 Brake Line Fittings in the co-pilot P/N 39004 Master Cylinders.

STEP 8: INSTALL TOE PEDALS

Install the P/N 35006 Toe Brake Pedals onto the co-pilot Rudder Pedals with the tabs forward. The P/N 36005 Collars fit onto the ends of the P/N 35006's and the 35007's. Drill a 3/32" hole through each Collar and Toe Pedal and secure the Collars with an AN380-3-3 Cotter Pin. See Fig. LG-B-3.



copilot Side Brakes

STEP 9: FIT MASTER CYLINDERS

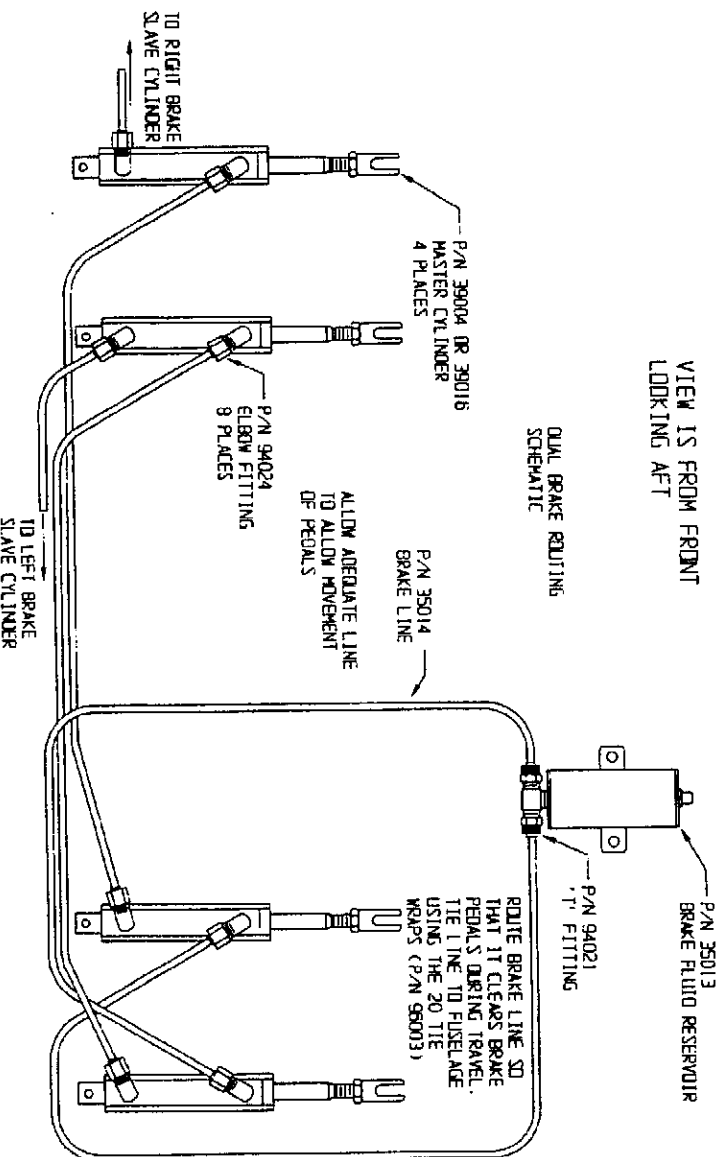
The P/N 39004 Master Cylinders fit between the tabs on the Rudder and Brake Pedals on the left (pilot) side. Install them with the Brake Line Fittings aligned to the right.

STEP 10: CO-PILOT CYLINDERS

Install the P/N 39004 Master Cylinders on the right (co-pilot) side with the Fittings aligned to the left. Both sets of Master Cylinders are attached to the Brake Toe Pedals with AN3-6 Bolts and to the Rudder Pedals with AN3-10 Bolts and AN310-3 Castle Nuts with Washers on the AN3-10 bolts only. Secure the Nuts with AN380-2-2 Cotter Pins. Adjust the Brake Pedal angle to the Rudder Pedal by turning the upper Attach Fitting on each Cylinder

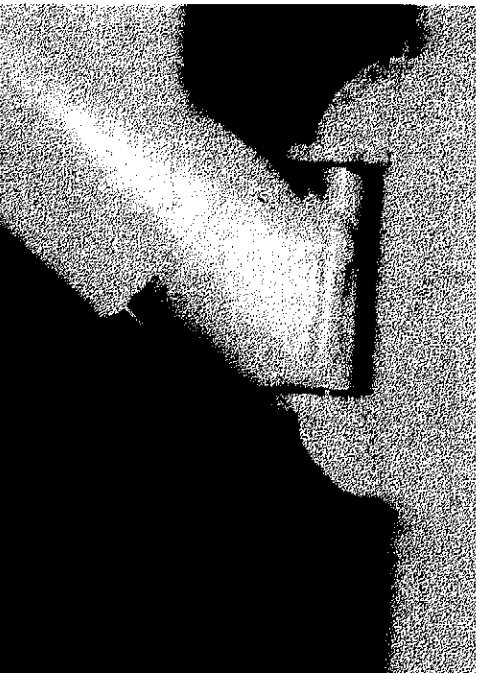
NOTE: You may have to relieve the tabs on the Brake Toe Pedals to fit the Master Cylinders.

SkyStar Aircraft Corporation				© 1992	
MODEL	ASSEMBLY	REVISION	DATE	SECTION	PAGE
4-1200	Sub-Section "B" Braking System		Sept. 1, 1993	Landing Gear	LG-B-4



Dual Brake Schematic
Fig. LG-B-3

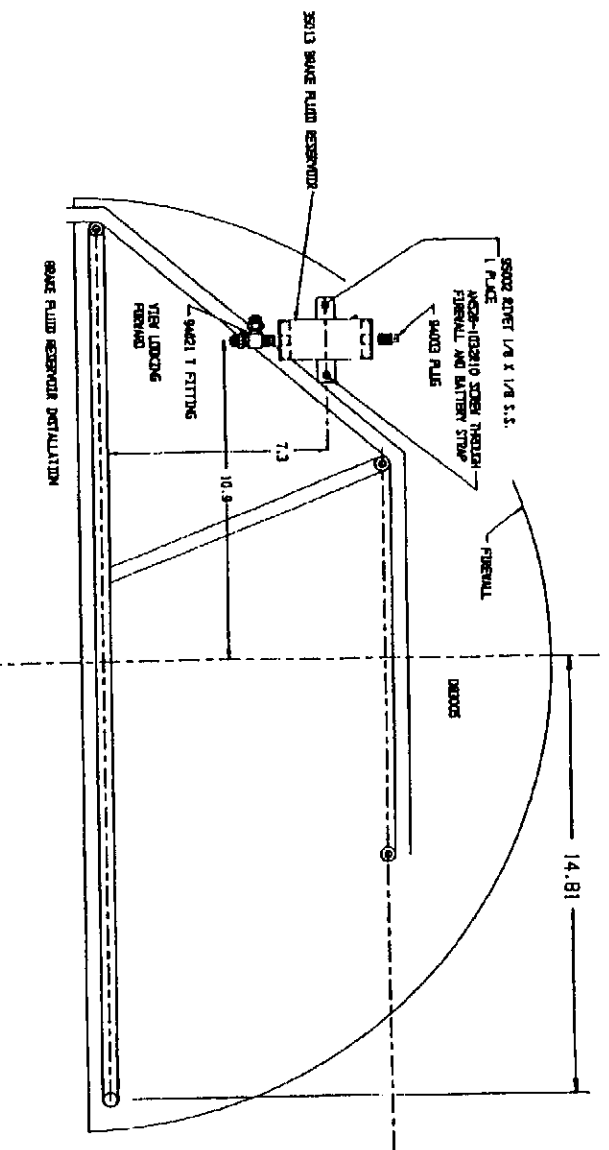
SkyStar Aircraft Corporation				© 1992	
MODEL	ASSEMBLY	REVISION	DATE	SECTION	PAGE
4-1200	Sub-Section "B" Braking System		Sept. 1, 1993	Landing Gear	LG-B-5



STEP 11: INSTALL DUAL BRAKE LINES

The P/N 35001 Brake Lines can now be installed. Route a line from each pilot side. Route the Lines from the outlet (lower) fittings around the left end of the Rudder Pedals and back along the left side of the cockpit. Take them under the seat to the back side of the aft Gear Attach Brackets and down the aft side of the Gear Legs to the Calipers. If you have installed the Speed Fairing Kit, run each Line down the routed slot in the aft Fairing. Be careful not to kink the Line. You may have to radius the slot in the top end of the wooden Fairing so the Brake Line will make a gentle curve into it.

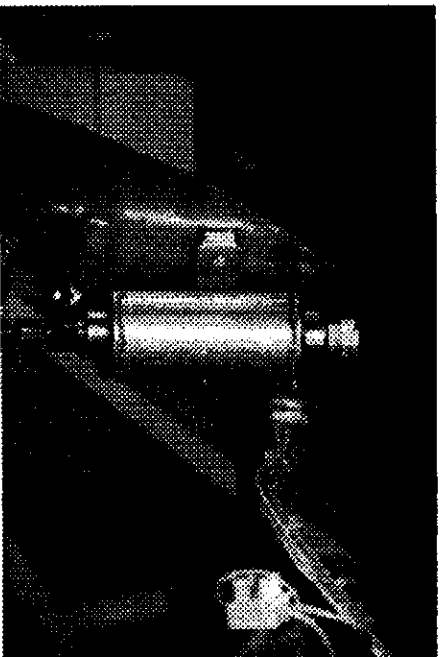
Brake Line from fuselage to Gear



Brake Fluid Reservoir Installation

Fig. LG-B-4

MODEL		SkyStar Aircraft Corporation		© 1992	
4-1200	ASSEMBLY	Sub-Section "B" Braking System	REVISION	DATE	PAGE
				Sept. 1, 1993	LG-B-6
				SECTION	
				Landing Gear	



Brake Fluid Reservoir

STEP 12: INSTALL RESERVOIR

Install a P/N 94021 "T" Fitting in bottom of the P/N 35013 Reservoir. Install the P/N 35013 Remote Reservoir on the aft side of the upper Firewall, directly above pilot's pedals - see Fig. LG-B-4.

NOTE: Fabricate small aluminum clamps to hold the Lines secure to the floor. The 6R X 3/8" Truss Screws are provided for this purpose. Provide sufficient length on all Lines to allow full movement of Rudder Pedals without kinking the Lines.

STEP 13: CONNECTING LINES

Install Brake Lines between the Reservoir "T" and the top port in the Master Cylinders.

NOTE: The Plastic Brake Line Tubing routes down the rear edge of the Rear Gear Leg and can be secured with tie-wraps if Speed Fairings are not being used. If fabric is going to be applied to the Landing Gear it can be done at this time.

***Paint all non-painted parts at this time.**

SkyStar Aircraft Corporation © 1992				
MODEL	ASSEMBLY	REVISION	DATE	PAGE
4-1200	Sub-Section "B" Braking System		Sept. 1, 1993	LG-B-7
			SECTION	
			Landing Gear	

