



SERVICE LETTER

No. 810

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"DOA SO-1 Approved"

April 15, 1977 S

Subject: Diaphragm Replacement, Backup Landing Gear Extender

Models Affected: Serial Numbers Affected:

PA-28R-180 Cherokee Arrow	28R-30001 and up
PA-28R-200 Cherokee Arrow II	28R-35001 and up
PA-28R-201 Cherokee Arrow III	28R-7737001 and up
PA-28R-201T Cherokee Turbo Arrow III ...	28R-7703001 and up
PA-32R-300 Cherokee Lance	32R-7680001 and up

Purpose: To announce to Piper Distributors, Dealers and Owners the availability of a diaphragm replacement kit for the backup landing gear extender used on the above referenced aircraft. When it has been determined that the failure of the landing gear to retract or extend at the proper speed is a result of a defective diaphragm, it will no longer be necessary to replace the complete extender unit.

This Service Letter also furnishes one (1) method for determining a defective diaphragm .

Compliance Time: Not applicable.

Instructions: One suggested method for determining if the diaphragm has failed is as follows:

1. If the landing gear retracts at too high an airspeed and extends at too high an airspeed or will not retract at all unless the backup extender is placed in the override position, then the diaphragm is probably defective.
2. If it is determined that the diaphragm is defective, then remove the backup extender per instructions in the applicable Service Manual and install the kit listed in Material Required, below. Instructions for installing the diaphragm are included in the kit.

Material Required: One (1) each per aircraft, Piper Kit No. 761 138V, Backup Gear Extender Diaphragm Replacement at a suggested retail price of \$ 5.00.

Availability of Parts: Your Piper Field Service Facility.

Effectivity Date: This Service Letter is effective upon receipt.

Summary: Please contact your Piper Field Service Facility to take advantage of the cost saving replacement kit should the need arise.