



SERVICE BULLETIN

No. 306

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"FAA DOA EA-1 Approved"

January 9, 1970

Subject: Alternator System Modification

Models Affected: PA-23-250 and PA-E23-250 (Six Place) Aztec "D"
PA-30 Twin Comanche "C"
PA-31 and PA-31-300 Navajo

Serial Numbers Affected: PA-23-250 and PA-E23-250 (Six Place) Aztec "D"; Serial Nos. 27-3837, 27-3944 to 27-4442 incl.
PA-30 Twin Comanche "C"; Serial Nos. 30-1717, 30-1746 to 30-2000 incl.
PA-31 and PA-31-300 Navajo; Serial Nos. 31-228, 31-230, 31-231, 31-233 to 31-588 incl. (See Note 1)

Compliance Time: Prior to but not later than the next 100 hours of operation.

Purpose: To provide field modification material and instructions to improve the alternator system installation on the above referenced affected aircraft by the addition of new electrical equipment which will enable the pilot to manage the aircraft alternator system more positively.

Instructions: Contained in the applicable installation kits (reference Material Required, below).

Material Required: Kit No. 760 346, Alternator Field Control Installation (PA-23-250 and PA-E23-250 (Six Place) Aztec "D");
Kit No. 760 347, Alternator Field Control Installation (PA-30 Twin Comanche "C");
Kit No. 760 349, Alternator Field Control Installation (PA-31 and PA-31-300 Navajo; Serial Nos. 31-228, 31-230, 31-231, 31-233 to 31-549 incl. - See Note 1 and 2, below)
Kit No. 760 358, Alternator Field Control Installation (PA-31 and PA-31-300 Navajo; Serial Nos. 31-550 to 31-588 incl.)

One (1) each applicable Alternator System Modification Kit required per aircraft.

NOTE

- (1) PA-31 Navajos, Serial Nos. 31-2 to 31-227, 31-229 and 31-232 that have had 70 Amp Alternator Installation Kit No. 760 186 field installed will also require the installation of Kit No. 760 349, Alternator Field Control Installation.

(over)

NOTE

- (2) When ordering Kit No. 760 349, Alternator Field Control Installation for the applicable serial number aircraft, it will also be necessary to order one of the following switch and circuit protector trim panels:

Part Number 41939-09 (Black), Serial Nos. 31-1 to 31-588 incl.,
 Part Number 41939-11 (Red), Serial Nos. 31-354 to 31-588 incl.,
 Part Number 41939-13 (Blue), Serial Nos. 31-354 to 31-588 incl.,
 Part Number 41939-15 (Beige), Serial Nos. 31-354 to 31-588 incl.

Availability of Parts:

Piper Dealer.

Material Allowance:

One (1) each applicable Alternator System Modification Installation Kit (reference Material Required, above) per aircraft; comply with Service Publication Compliance/Credit Request procedures.

Labor Allowance:

Kit No. 760 346, Alternator Field Control Installation (PA-23-250 and PA-E23-250 (Six Place) Aztec "D"); Three (3) hours;
 Kit No. 760 347, Alternator Field Control Installation (PA-30 Twin Comanche "C"); Four and one-half (4 1/2) hours;
 Kit No. 760 349 or Kit No. 760 358 PA-31 and PA-31-300 Navajo Alternator Field Control Installation (reference Material Required for aircraft serial number application); Eight (8) hours.
 Comply with Service Publication Compliance/Credit Request Procedures.

Material/Labor AllowanceTermination Date:

October 31, 1970

Disposition of Parts in Stock:

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty. (per aircraft)</u>	<u>Code</u>
41939-03	Panel Assy.; Switch & Circuit Breaker Trim (red)	1 ea.	C
41939-05	Panel Assy.; Switch & Circuit Breaker Trim (blue)	1 ea.	C
41939-07	Panel Assy.; Switch & Circuit Breaker Trim (beige)	1 ea.	C

Comply with Service Publications Compliance/Credit Request Procedure.

Disposition of Replaced Parts:

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty. (per aircraft)</u>	<u>Code</u>
40880-00	Link - Circuit Protector	1 ea.	C
40927-00	Channel Assy.; Switch Mounting	1 ea.	D
41939-00	Panel Assy., Switch & Circuit Breaker Trim (black)	1 ea.	D
41939-03	Panel Assy., Switch & Circuit Breaker Trim (red)	1 ea.	D
41939-05	Panel Assy., Switch & Circuit Breaker Trim (blue)	1 ea.	D
41939-07	Panel Assy., Switch & Circuit Breaker Trim (beige)	1 ea.	D
454 667	Circuit Breaker	2 ea.	D
487 852	Switch Assy., Voltage Regulator Selector	1 ea.	D
487 907	Switch Assy., Master	1 ea.	D