



# SERVICE BULLETIN

No. 654

Piper Aircraft Corporation

FAA Approved

Lock Haven, Pennsylvania, U.S.A.

June 23, 1980

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Subject: Cigar Lighter Installation Modification

Models Affected:

Serial Numbers Affected:

PA-31 Navajo

PA-31-325 Navajo C/R

PA-31-350 Chieftain

31-7712074 through 31-8012045

31-7752096 through 31-8052094

NOTE: This Service Bulletin affects only those above-listed aircraft with optional cigar lighter installation.

Compliance Time: Within the next one hundred (100) hours of operation or at the next scheduled maintenance, whichever occurs first.

Purpose:

A field report has been received that the phenolic mounting plate for the three voltage dropping resistors in the cigar lighters circuit became overheated resulting in smoke in the cockpit. FAA Airworthiness Directive 79-20-07 required that the 12-volt lighters be disconnected.

This Service Release provides instructions to modify the cigar lighter system to incorporate improved 28V lighters and eliminate the dropping resistor assembly. This modification allows the cigar lighters to be returned to service.

Instructions:

A. For replacement of the cigar lighter in the instrument panel.

1. Gain access to the cigar lighter located in the instrument panel.
2. Disconnect the CIG-1 wire from the back of the socket assy. and ground wire from the side of the socket assembly.
3. Disassemble the clampshell and remove the cigar lighter and socket assembly.
4. Install a 28 volt Casco lighter and receptacle #207959 (Piper Part Number 572 553).
5. Assemble the clampshell around the socket assembly.
6. Attach the COG-1 wire and the ground wire.

(over)

Instructions: (continued)

## B. For replacement of the cigar lighters in the folding tables.

1. Gain access to the cigar lighters in the tables.
2. On the left cigar lighter disconnect the CIG-2 wire and the ground wire and on the right cigar lighter disconnect the CIG-3 wire and the ground wire.
3. Disassemble the socket assembly and remove it from each table.
4. Install a 28 volt Casco lighter and receptacle #207959 (Piper Part Number 572 553) in each table. Trim approximately .250 inches off the clampshell.
5. Attach the CIG-2 wire and ground wire on the left lighter and CIG-3 wire and ground wire on the right lighter.

## C. For removal of the resistor assembly and, if applicable, replacement of the 7.5 amp Cigar Lighter Circuit Breaker.

1. Gain access to the cigar lighter resistor assembly (Piper Part Number 55543-02) located on the right side of the fuselage forward of the instrument panel.
2. Remove the resistor assembly and assemble wires CIG-R1, CIG-R2 and CIG-R3 to CIG-1A with Terminal PS10025-10-4 (Piper Part Number 488 435).

NOTE: Pending release of this repair, some 1980 models were delivered without this resistor assembly installed.

3. For PA-31/PA-31-325 with Serial Numbers 31-7912001 through 31-8012045 and PA-31-350 with Serial Numbers 31-7952001 through 31-8052094, gain access to pilot's circuit breaker panel and replace 7.5 amp Cigar Light Circuit Breaker with 5 amp circuit breaker PS50120-3-7 (Piper Part Number 454 656).
4. Make appropriate logbook entry of compliance with this service release.

Material Required:

One (1) each 5 amp Circuit Breaker PS50120-3-7 (Piper Part Number 454 656) if required per Instruction 3.

One (1) each Terminal PS10025-10-4 (Piper Part Number 488 435).

Up to three (3) per aircraft 28 volt Casco Lighter Assembly #207959 (Piper Part Number 572 553).

Availability of Parts:

Your Piper Field Service Facility.

Effectivity Date:

This Service Release is effective upon receipt.

Summary:

Please contact your Piper Field Service Facility to make arrangements for compliance with this Service Release in accordance with Compliance Time, above.