



Piper Aircraft, Inc.
2926 Piper Drive
Vero Beach, FL, U.S.A. 32960

SERVICE NO. 1204 LETTER

Date: August 17, 2016

(S)

MAINTENANCE ALERT

SUBJECT:

HEATED WINDSHIELD TEST PROCEDURE

MODELS AFFECTED:

PA-46-350P Mirage/M350
PA-46R-350T Matrix
PA-46-500TP Meridian/M500
PA-46-600TP M600

SERIAL NUMBERS AFFECTED:

4622003 through 4622200; 4636001 and Up
4692001 and Up
4697001 and Up
4698001 and Up

COMPLIANCE TIME:

Owner/operator discretion

APPROVAL:

The engineering aspects of this service document have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved.

PURPOSE:

In-cockpit ammeter readings are erroneously being used to assess the serviceability of heated windshields installed in the affected airplanes. This service letter provides an approved method of determining heated windshield serviceability.

NOTE: This service letter is applicable to aircraft that have a factory-installed heated windshield.

INSTRUCTIONS:

NOTE: Pilot operating handbooks (POHs) for the Piper PA-46-350P and PA-46R-350T models and the airplane maintenance manuals for PA-46-310P and PA-46-350P provide a check for the function of the heated windshield. That procedure reads ammeter increases when the heater is set on high and low. While that is a valid check of the functioning of the heater, the specific ammeter values included in some POHs are only approximations and are not to be used to assess the serviceability of a heated windshield.

NOTE: The applicable airplane maintenance manuals will be updated to include the following test method during the next revision cycle. The applicable POHs will be revised to remove references to specific amp values.

The only Piper approved method to determine the serviceability of the heated windshield is the following:

NOTE: This test is to be performed in ambient temperatures of 75° F +/- 10° (24° C +/- 5.56°).

- a. Remove the glareshield to access the heated windshield terminal blocks. See Figure 1 for terminal block locations.
- b. Resistance is to be tested with power removed from the heated windshield. When the windshield terminal blocks are exposed:
 - 1) For all affected PA-46R-350T Matrix, PA-46-500TP Meridian/M500, and PA-46-600TP M600; PA-46-350P Mirage/M350 models 4622172 and up only:
 - a) Measure resistance between terminal P1 and P2. Resistance must be 1.15 ohms +/- 10%.
 - b) Measure resistance between terminal P1 and P3. Resistance must be 1.58 ohms +/- 10%.
 - 2) For PA-46-350P Mirage models 4622003 through 4622171 only:
 - a) Measure resistance between terminal P1 and P2. Resistance must be 1.11 ohms +/- 10%.
 - b) Measure resistance between terminal P1 and P3. Resistance must be 1.70 ohms +/- 10%.
 - 3) If the measurements fail to meet specified values in either step 1) or 2) above, for the applicable aircraft, then the windshield must be replaced.

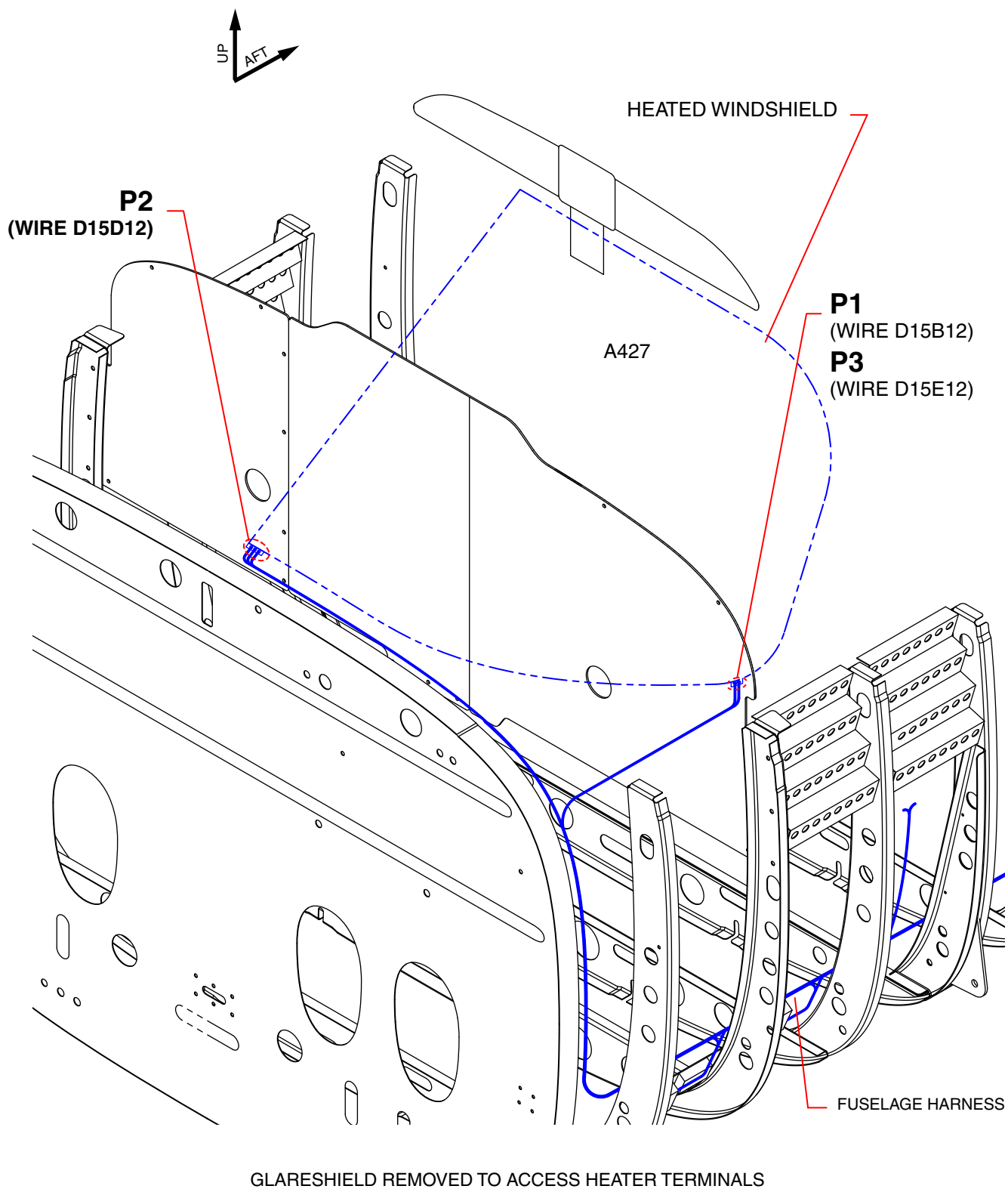


Figure 1
Heated Windshield Terminal Block Locations

MATERIAL REQUIRED: N/A

AVAILABILITY OF PARTS: N/A

EFFECTIVITY DATE: This service letter is effective upon receipt.

SUMMARY: Please contact your Factory Authorized Piper Service Facility to make arrangements for compliance with this service letter in accordance with the compliance time indicated.

NOTE: Please notify the factory of any address/ownership corrections. Changes should include aircraft model, serial number, and current owner's name and address.

Corrections and/or changes should be directed to:

PIPER AIRCRAFT, INC.
Attn: Customer Service
2926 Piper Drive
Vero Beach, FL 32960