



The New Piper Aircraft, Inc.
2926 Piper Drive
Vero Beach, Florida, U.S.A. 32960

SERVICE No. 1135 BULLETIN

**PIPER CONSIDERS
COMPLIANCE MANDATORY**

Date: July 16, 2003

(S) (M)

SUBJECT:

GMA340 AUDIO PANEL WIRING

MODELS AFFECTED:

PA-28-161
PA-28-181
PA-28R-201
PA-32R-301
PA-32R-301T

PA-34-220T Seneca V
PA-44-180 Seminole
PA-46-350P Mirage

PA-46-500TP Meridian

SERIAL NUMBERS AFFECTED:

2842064 through 2842169
2843130 & 2843203 through 2843534
2844028 & 2844040 through 2844085
3246126 through 3246204
3257076 through 3257296; 3257222 through
3257288; 3257290 through 3257294
3449152 through 3449262
4496014 & 4496030 through 4496162
4636160; 4636248 through 4636272; 4636274
through 4636336 & 4636338
4697001 through 4697089; 4697091 through
4697141; 4697145 through 4697146

COMPLIANCE TIME:

To coincide with next regularly scheduled maintenance event, or the next one hundred (100) hours Inspection, whichever occurs first.

APPROVAL:

The technical content of this Service Bulletin has been shown to comply with the applicable Federal Aviation Regulations and is FAA approved.

PURPOSE:

It has been discovered that the electrical wiring of the GMA340 Audio Panel on the listed aircraft requires rework to allow correct "failsafe" emergency audio operation when the GMA340 MOD 4 unit is installed. MOD 4 unit modifies the electrical connection for the "failsafe" feature by removing the connection between the pilot's headset LEFT and RIGHT channels and connecting the "failsafe" feature only to the pilot's headset LEFT audio channel.

On the above listed aircraft, the "failsafe" feature of the GMA340 installations have been wired to the pilot headset RIGHT audio channel which will not allow audio transmissions to the pilot's headset during emergency audio operations (loss of power to or failure of the GMA340 MOD 4 units). This publication provides instructions to rework the aircraft wiring harness by relocating one wire within the harness connector to the correct pin (RIGHT channel to LEFT channel).

(OVER)

ATA: 2370

PURPOSE: (Continued)

This modification is only required if the aircraft has a GMA 340 "MOD 4" unit installed (Unit S/N 96261177 & UP). The following aircraft S/N's have a factory installed "MOD 4" unit and MUST comply with this publication. The remaining aircraft that have the pre-MOD 4 units installed are acceptable as is until such time that a MOD 4 unit is installed. Upon installation of the MOD 4 unit, compliance with the re-wire instructions given in this publication is mandatory.

Aircraft with **Factory installed "MOD 4" GMA 340 units:**

<u>Models</u>	<u>Serial Numbers</u>
PA-28-161	2842164 & 2842166 thru 2842169
PA-28-181	2843530 thru 2843534
PA-28R-201	2844084 & 2844085
PA-32R-301	None
PA-32R-301T	None
PA-34-220T	3449260 thru 3449262
PA-44-180	4496158 thru 4496162
PA-46-350P	None
PA-46-500TP	4697146

NOTE: This publication does not apply to aircraft that have been retrofitted for use of stereo headsets such as Bose noise reduction headsets.

INSTRUCTIONS:

1. Gain access to the "P2" connector on the back of the GMA 340 audio panel . The "P2" connector attaches to the "J2" receptacle located on the back of the GMA 340 (See Figure 1).

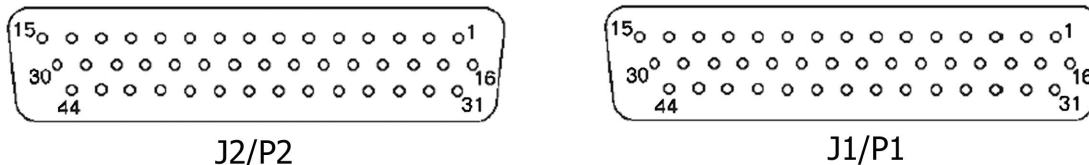


Figure 1
GMA340 Rear Receptacles
(View looking from back of the rack)

2. De-pin the wire going to Pin 31 of the "P2" connector and relocate this wire to Pin 16.
3. Reconnect the connector to the back of the GMA 340 audio panel, if removed.
4. Verify correct operation by switching the battery and avionics master switches ON. In the Mirage and Meridian aircraft pull the Audio/Mkr circuit breaker located on RH forward panel, row 1, breaker 3. On the Warrior, Archer, Arrow, Saratoga II HP, Saratoga II TC, Seneca V and the Seminole, pull the Audio/Mkr circuit breaker is located on the lower right portion of the Instrument panel. Verify radio transmission and reception on COM 1 is still possible. Reset the circuit breakers and turn OFF the avionics and battery master switches.
5. Make a logbook entry indicating compliance with this publication.

MATERIAL REQUIRED: N/A

AVAILABILITY OF PARTS: Your Piper Field Service Facility.

EFFECTIVITY DATE: This Service Bulletin is effective upon receipt.

SUMMARY: Applicable Factory Participation is limited to new aircraft in warranty at the time of compliance. Factory Participation will remain in effect for a period of time not to exceed 180 days from the date of this Service Bulletin.

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

NOTE: If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify the factory of address/ownership corrections. Changes should include aircraft model, serial number, current owner's name and address.

Corrections/changes should be directed to:

THE NEW PIPER AIRCRAFT, INC.
Attn: Customer Service
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