

SERVICE BULLETIN



Service Bulletin No.: DAC1-23-50 Rev. 0

Date Issued: September 09, 2009

Title: Installation of 27 Ohm Resistor

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- 1. ATA Code:** 2300
- 2. Effectivity:** DA20-C1 aircraft equipped with Audio Selector, GMA 340, S/N C0002 to C0551 and S/N C0555.
- 3. General:** This service bulletin provides installation of a 27 Ohm resistor to prevent a short circuit to the powered mic jacks.
- 4. Compliance:** Optional.
- 5. Approval:** Engineering data referenced or contained in this service bulletin is approved as part of the type design.
- 6. Labour:** Approximately 1.5 hours will be required to accomplish this service bulletin.

This estimate is for direct labour performed by a technician and it does not include setup, planning, familiarization, cure time, part fabrication or tool acquisition.

7. Material:	Description	Qty	P/N
	Lock Nut	2	MS21042-02
	Washer	2	NAS1149DN216J
	Screw	2	MS51957-7
	27 Ohm, 10 W, Resistor	1	107-3368
	Heatshrink	AR	RNF100-1/8 WHT

The above materials may be ordered as a Kit DAC1-23-50.

- 8. Special Tools:** No. 1 Phillips Screw Driver, 7/64 Inch Drill Bit, and 1/8 Inch Nut Driver, Raychem Crimper (Splices).
- 9. References:** DA20-C1 Aircraft Maintenance Manual, Document # DA201-C1 (AMM).
DA20-C1 Illustrated Parts Catalog (IPC), Document # DA203-C1.

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10. Accomplishment Instructions

- 10.1 Unlock the camlock fasteners from the top cowling.
- 10.2 Remove the top cowling from the airplane.
- 10.3 Disconnect the negative connector from the battery.
- 10.4 Remove the instrument panel cover.
 - 10.4.1 Remove screws around the the edge of the instrument panel cover.
 - 10.4.2 Lift the cover clear and away from the airplane.
- 10.5 Open the ICS circuit breaker.
- 10.6 Cut the tywraps of the wiring harness to gain acces to GMA 340 Connector J2.
See Figure 1, Schematic Diagram.
- 10.7 Remove wire 23126B18 from ICS circuit breaker.
- 10.8 Cut the removed wire to length at the resistor mounting position.
See Figure 2, Location of 27 Ohm Resistor.
- 10.9 Add wire 23126C18 from ICS Circuit breaker and cut to length at the resistor mounting position. See Figures 1 and 2.
- 10.10 Solder one wire to each side of the resistor and add heat shrink for protection.
- 10.11 Lay the resistor on the instrument base panel and mark the location of the holes.
Drill two (2) 7/64 " holes in the instrument base panel.
- 10.12 Mount the resistor and attach with screws (MS51957-7), washers (NAS1149DN216J), and lock nuts (MS21042-02).
- 10.13 Remove wire 23126A18 from connector J2 Pin 9 of GMA 340.

NOTE: If the 23126A18 is spliced to the orange wire of 23503A24 skip step 10.14.
- 10.14 Splice 23126A18 to the orange wire of 23503A24.
- 10.15 Cut the 23125A18 no more than three (3) inches back from the connector.
- 10.16 Splice a small wire to 23125A18 and connect into Pin 9.

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- 10.17 Secure the wiring bundles with tywraps.
- 10.18 Connect the negative connector of battery.
- 10.19 Apply power to the system. Verify that all equipment are functioning properly.
- 10.20 Close the ICS circuit breaker.
- 10.21 Do a function check on the audio system.
 - 10.21.1 Connect the headsets (Pilot or the Co-Pilot).
 - 10.21.2 Make sure the circuit breaker is ON.
 - 10.21.3 Press and transmit. The mic should be working properly.
- 10.22 Put the top cowling in position and lock the fasteners.
- 10.23 Install the instrument panel cover and secure with screws.

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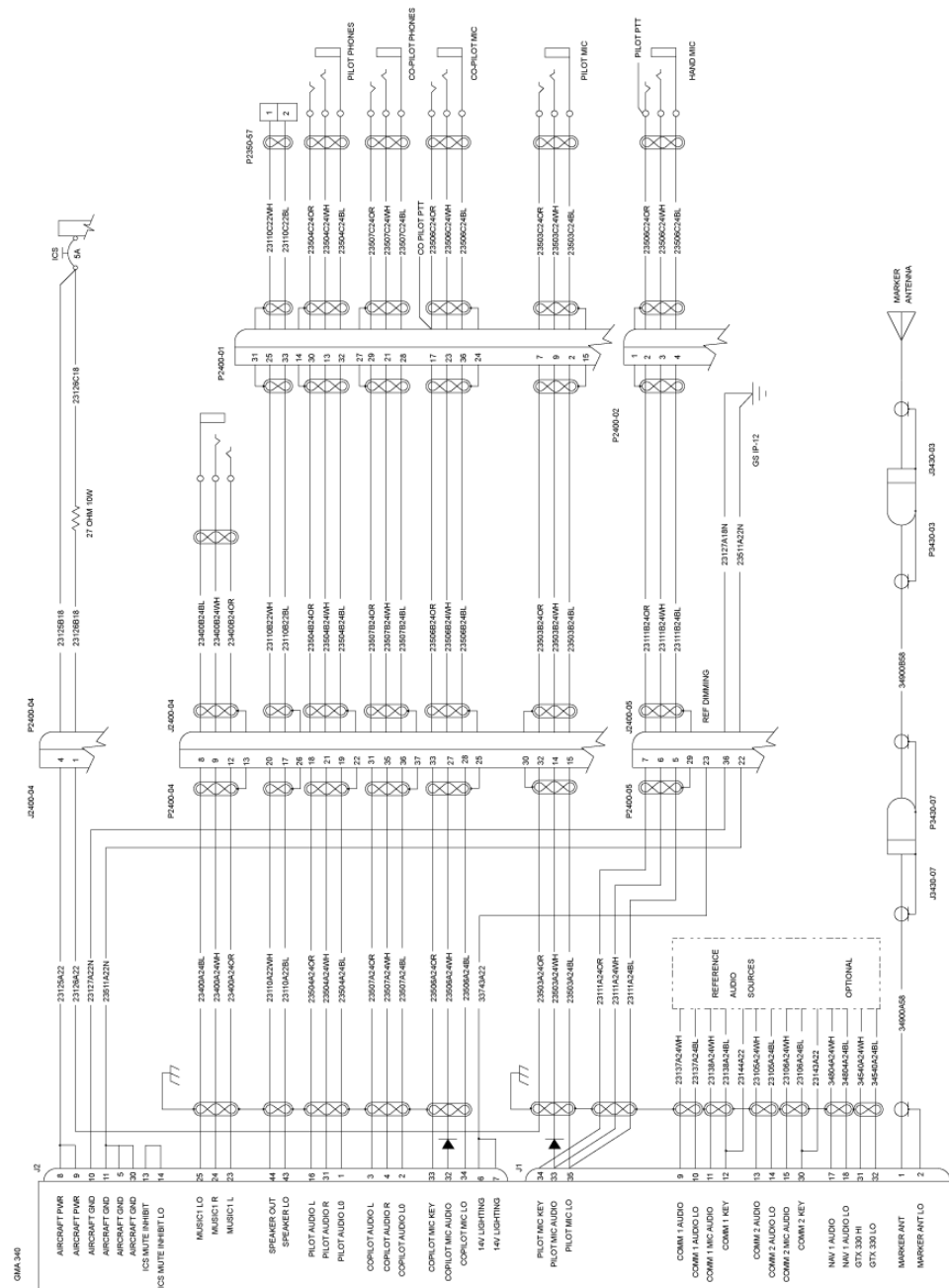


Figure 1 - GMA 340 Schematic Diagram

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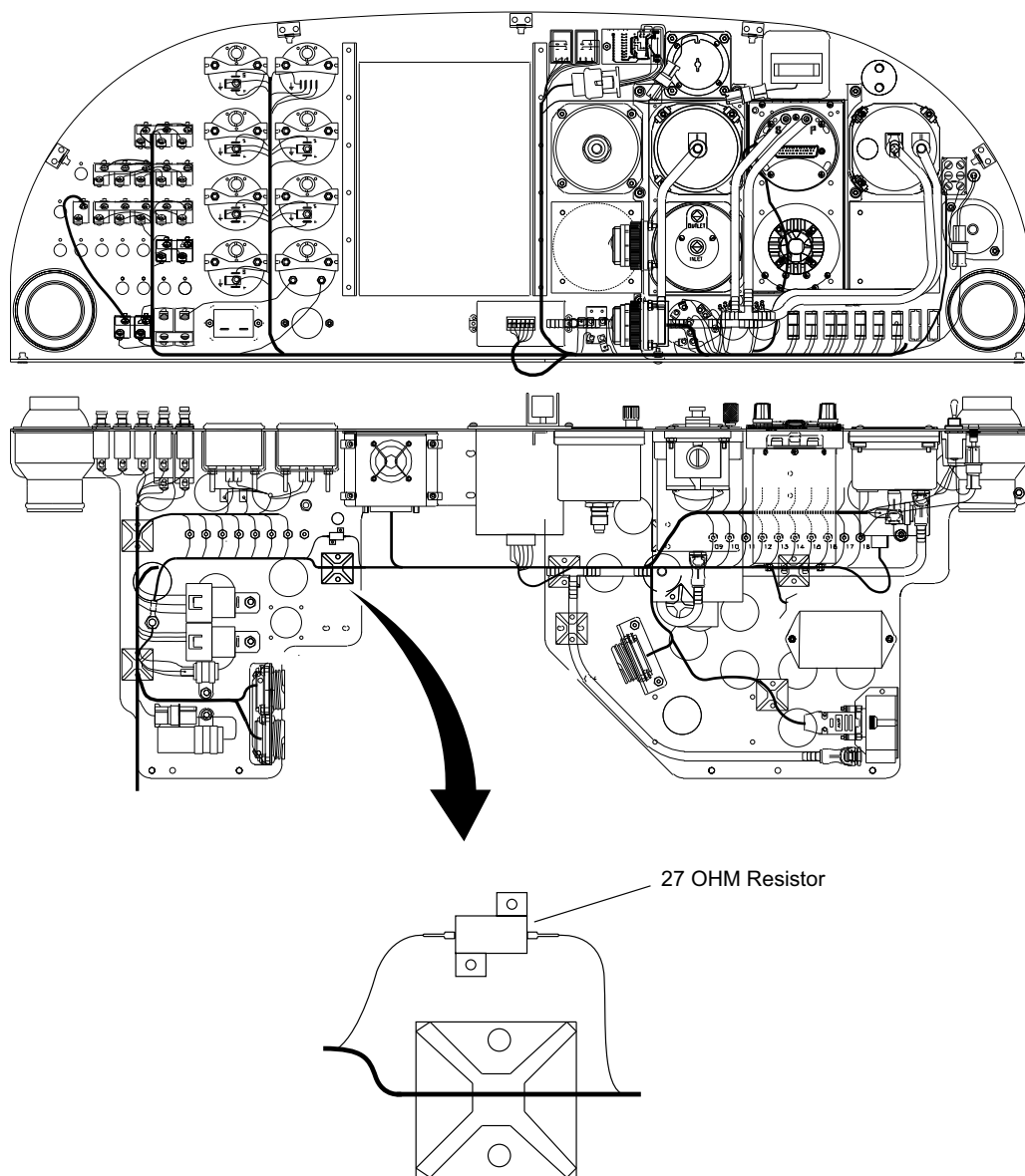


Figure 2 - Location of 27 Ohm Resistor

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11. Weight and Balance: The weight and balance is not affected by this Service Bulletin.

12. Availability: Contact Diamond Aircraft.

To obtain satisfactory results, procedures specified in this service bulletin must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft Industries Inc. cannot be responsible for the quality of work performed in accomplishing the requirements of this service bulletin. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this service bulletin if it is not incorporated.

If you no longer own the aircraft to which this service bulletin applies, please forward it to the current owner and send the name of the current owner to Diamond Aircraft Industries Inc. at the address below.

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