

SERVICE BULLETIN



Service Bulletin No.: DAC1-71-01 Rev 1

Date Issued: May 16, 2002

Title: Cowling Thermal Protection Shielding

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- 1. ATA Code:** 7100
- 2. Effectivity:** Optional installation on Diamond Aircraft Industries Model DA20-C1 Aircraft serial numbers C0001 through C0168.
- 3. General:** This service bulletin addresses the optional installation of heat shields that prevent possible discoloration of the cowlings from radiated exhaust system heat.
- 4. Compliance:** Compliance with this service bulletin is optional at the owners discretion.
- 5. Approval:** Engineering data referenced or contained in this service bulletin is approved as part of the type design.

- 6. Labor:** Approximately 1 hour will be required to accomplish this service bulletin.

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

7. Material:	Part	Description	Qty
	22-7140-00-01	Heat shield Left / Right	2
	22-7140-00-02	Heat Shield Center	1
	MS35206-232	Screw	6
	AN960-6	Flat Washer	18
	22-7141-00-03	Spacer, Insulation	6
	41012	Rivet (Large surface Head)	5
	MS21042-06	Self Locking Nut	6
	NAS1149DN432K	Rivet Back-up Washer	5
	The above material may be ordered as kit DAC1-71-01-AMK1.		

- 8. Special Tools:** No special tools are required.

- 9. References:** DA20 Maintenance Manual (AMM), Document number DA201-C1.

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10. Accomplishment Instructions:

- 10.1** Remove cowlings from aircraft.
- 10.2** Inspect the exhaust system for leakage. Repair components as required.
- 10.3** Place left and right side shields on the inside of the lower cowling in the locations shown in Figure 1. Bend the shields as required to follow the profile of the cowling.
- 10.4** Mark the 6 hole locations (3 per shield) on the inside of the cowling using the predrilled holes in the shields as a guide. Install the cowling and verify that the shields will be centered fore and aft in line with the exhaust system collectors, reposition as required. Mark the new location of the holes to be drilled. Remove cowling.
- 10.5** Position the center lower heat shield as shown in figure 1. Mark the 5 hole locations.
- 10.6** Drill 1/8" holes in the marked locations (11 holes).
- 10.7** Install the left and right heat shields with the supplied hardware following the instructions in Figure 2.
- 10.8** Install the center heat shield with Rivets as shown in Figure 3.
- 10.9** If desired the hardware may be painted to match the aircraft outer surface.
- 10.10** Install lower cowling. Ensure that the cabin heat SCEET hose does not contact lower heat shield.

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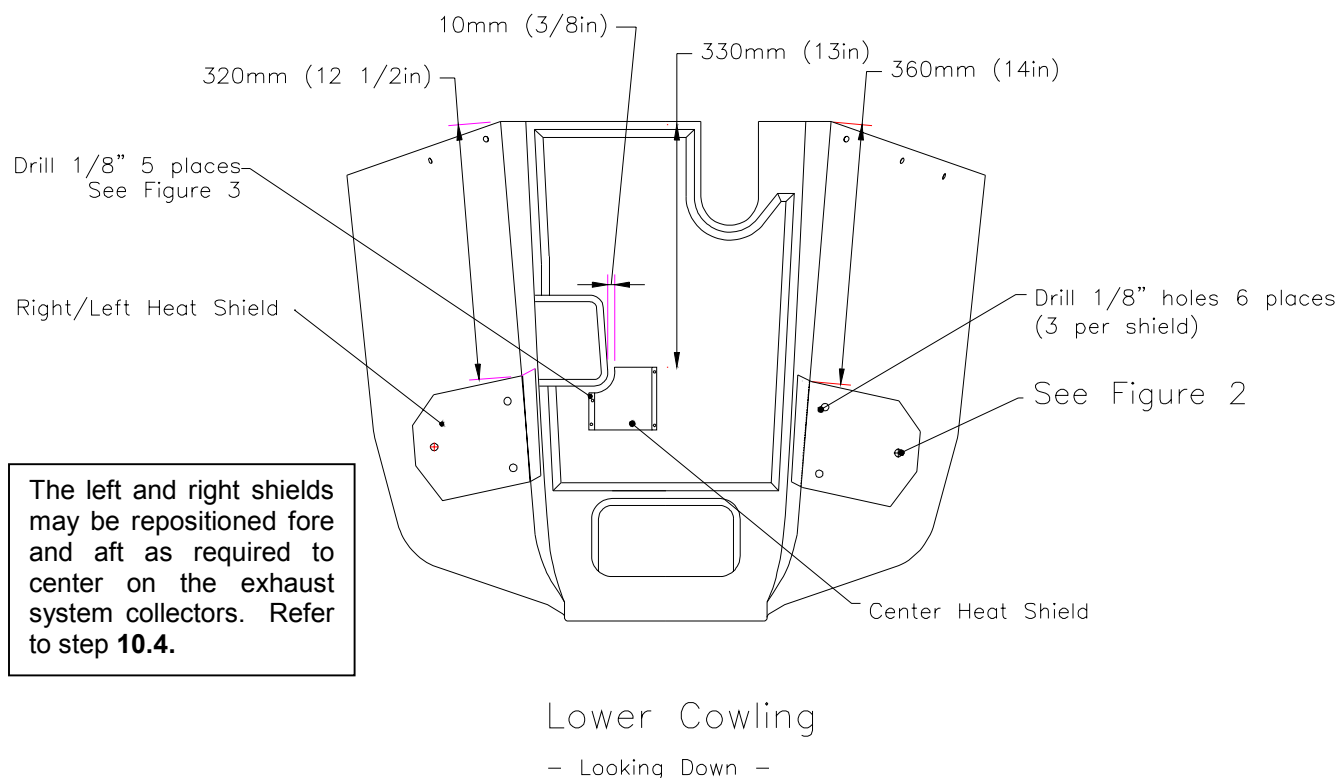


Figure 1

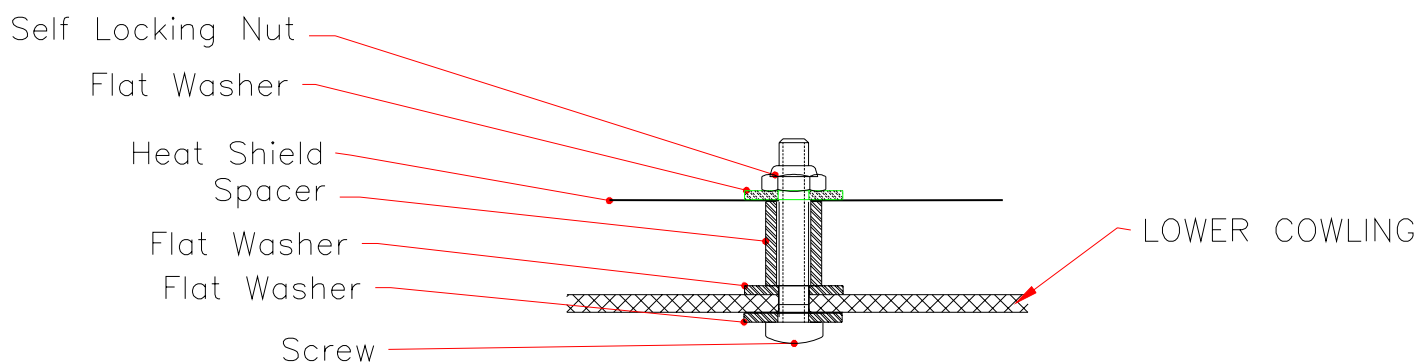


Figure 2

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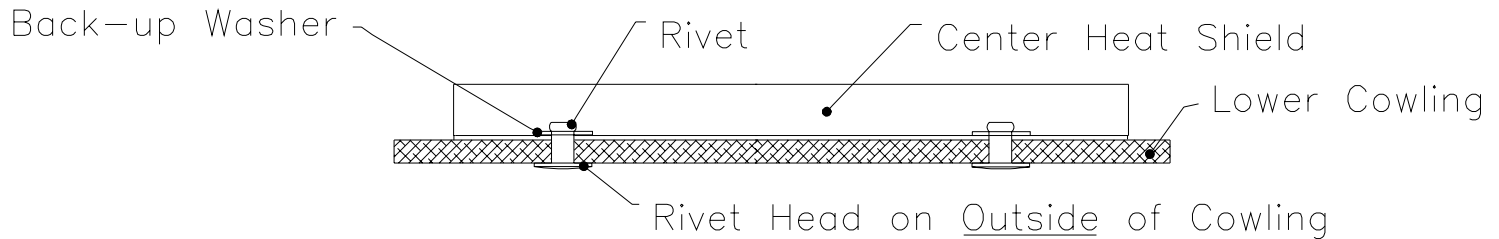


Figure 3

11. Weight and Balance: Installation of this equipment adds .25lbs (.11kg) of weight at an arm of -44in (-1.11m).

12. Availability: Contact Diamond Aircraft Parts Department

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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