

# SERVICE BULLETIN



**Service Bulletin No.:** DAC1-74-01 Rev 0

**Date Issued:** November 12, 1999

**Title:** Ignition Harness Routing

**Page:** 1 of 5

- 1. ATA Code:** 7420
- 2. Effectivity:** All DA20-C1 Aircraft.
- 3. General:** This Service Bulletin addresses a revision of the ignition harness wiring to improve cold weather starting. The revision consists of switching the spark plug leads from the top to the bottom.
- 4. Compliance:** Compliance with this Service Bulletin is recommended.
- 5. Approval:** The engineering data referenced or contained in this Service Bulletin is approved as part of the type design.
- 6. Labour:** Approximately 2 hours 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:** All Material to be procured locally.
- 8. Special Tools:** Engraver (vibro peener)
- 9. References:** Teledyne Continental Aircraft Engine Special Service Instruction SSI 99-4 (attached).
- 10. Accomplishment Instructions:**
  - 10.1** Remove the cable ties from the harness behind the engine (Note the locations).
  - 10.2** Drill a #10 diameter hole 1¼" forward and 1" down from the upper aft corner of the right baffle (Figure 1).
  - 10.3** Remove the cable clamp from location A and move it to the new location (Figure 1). The hole at location A may be sealed with suitable hardware or left open (cooling air leakage is negligible).
  - 10.4** Drill a #10 diameter hole 1" inboard and ½" up from lower left corner of the aft baffle (Figure 2).
  - 10.5** Remove the cable clamp from location B and move it to the new location (Figure 1). Use suitable hardware (Figure 2).
  - 10.6** Reinstall the valve cover retaining screw. Torque to 55-65 in.lbs.
  - 10.7** Install the cable ties on the harness behind the engine in the locations noted in step 10.1.
  - 10.8** Reroute the harness as shown in Figure 1 and 3.
  - 10.9** Mark the ignition harness B nuts in accordance with SSI 99-4.
  - 10.10** Make a log book entry stating that this Service Bulletin has been incorporated.
- 11. Weight and Balance:** The weight and balance is not affected.

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## 12. Credit Terms and Conditions:

- Parts – This item is not covered under the terms and conditions of the warranty program.
- Labour – This item is not covered under the terms and conditions of the warranty program.

*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.*

Diamond Aircraft Industries Inc. 1560 Crumlin Road, London, Ontario, Canada N5V 1S2  
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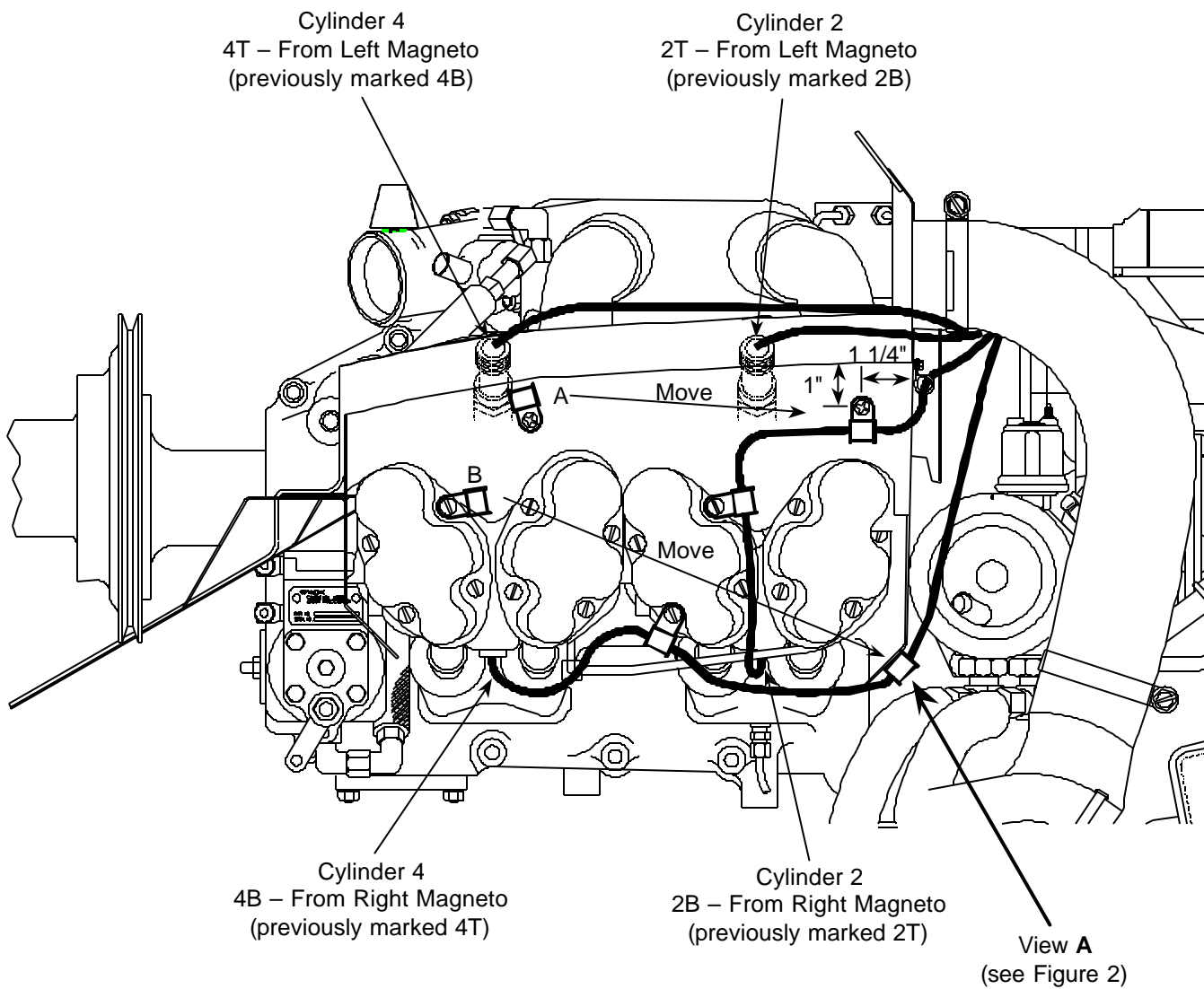


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**Figure 1**  
Left Side View of Engine

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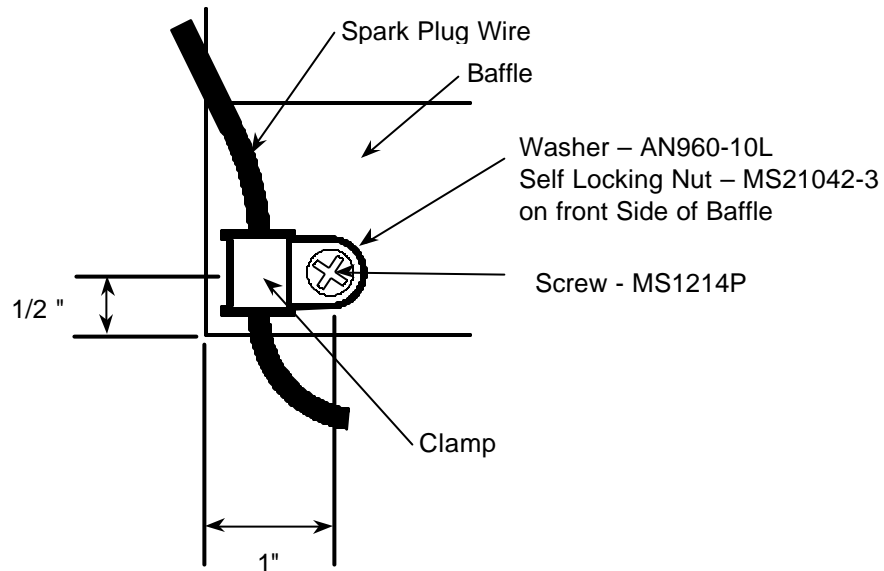


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**Figure 2**  
View A from Figure 1

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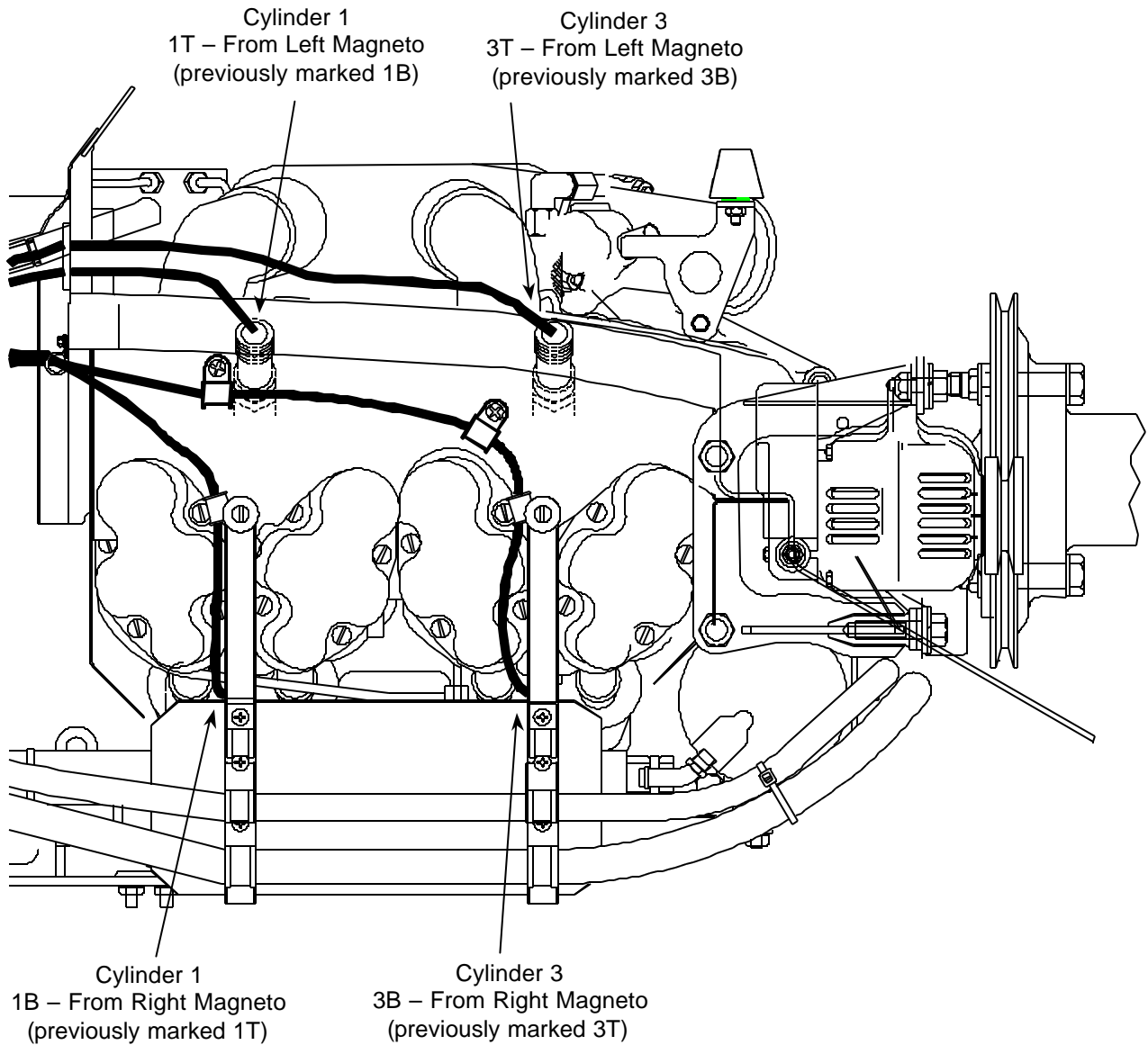


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**Figure 3**  
Right Side View of Engine