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**SK-156**  
March 1, 2005

## TIGER AIRCRAFT SERVICE KIT NO. 156

### **SUBJECT:**

Improved Throttle Cable Installation

### **PURPOSE/DISCUSSION:**

This Service Kit provides a new redesigned throttle cable attach bracket. The new bracket provides a more positive throttle movement and reduces the amount of vibration transmitted to the throttle cable.

Installation of this Service Kit removes the throttle cable inspection requirements of Service Bulletin 190.

**Note: Inspection of the throttle cable sleeve as described in section A of Service Bulletin 190 is a good preflight inspection practice.**

### **DESCRIPTION:**

This Service Kit contains the parts and instructions required to replace the existing throttle cable support bracket P/N 5503016-22 with an improved bracket P/N 5503016-513

### **PARTS REQUIRED:**

|       |             |                  |
|-------|-------------|------------------|
| 1 ea. | A920-0410   | Throttle Cable   |
| 1 ea. | 5503016-513 | Bracket Assembly |
| 1 ea. | AN3-4A      | Bolt             |
| 1 ea. | AN960-10    | Washer           |
| 1 ea. | MS21045-3   | Nut              |

### **PROCEDURE:**

#### A. Cable and Support Bracket Removal (Reference Figure 1)

1. Prepare the aircraft for safe maintenance.
2. Disconnect the battery and ground the airframe.
3. Remove the lower engine cowl.
4. Remove the existing throttle cable. (Reference the Tiger Aircraft AG-5B Maintenance Manual, Chapter 73, Page 73-10 through 73-11)

B. New Cable Support Bracket and Throttle Cable Installation (Reference Figure 2)

1. Position Bracket (3), P/N 5503016-513 in position on Heat Valve (6) as shown in Figure 2.
2. Attach the Bracket to the Carburetor Heat Valve at location (4) using two AN3-4A bolts and two AN960-10 washers previously removed.
3. Attach the aft end of Bracket (3) at location (5) using the AN3-4A bolt, AN960-10 Washer and MS21045-3 nut supplied with this kit. (Install this bolt with the head of the bolt on the inside of the Heat Valve)
4. Reinstall the remaining previously removed bolt with an additional AN960-10 washer at location (7).
5. Install the new Throttle Control Cable and rig in accordance with the Tiger Aircraft AG-5B Maintenance Manual, Chapter 73, pages 73-11 through 73-13.
6. Reinstall the lower engine cowl.
7. Reconnect the battery.
8. Record compliance in the aircraft log book.

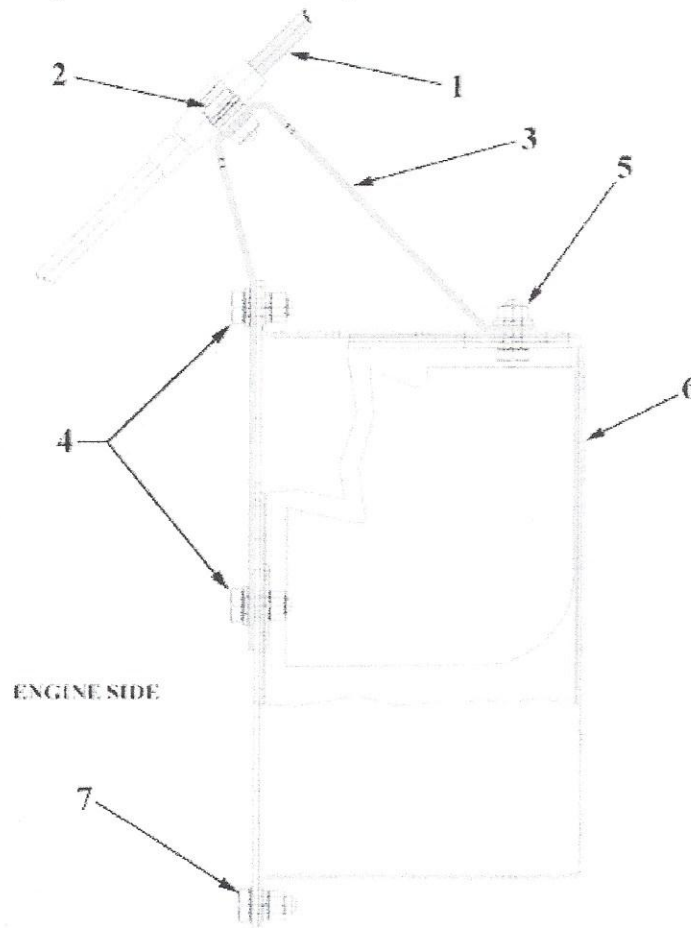


Figure 2

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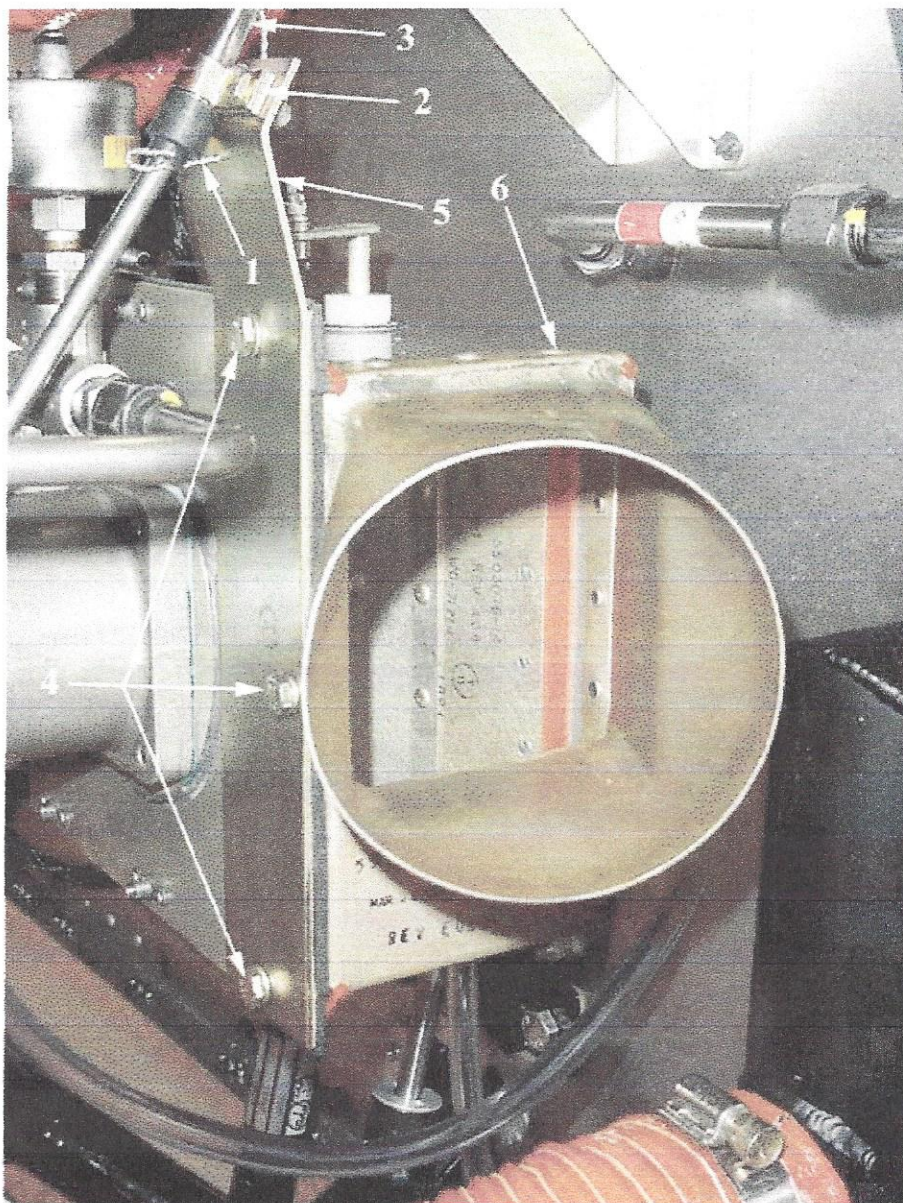


**Note:** Safety wire (1), Nut, washer and clamp (2) and cable (3) should have been removed during the previous operation.

- 5 Remove Bolts (4) and remove bracket (5) from the Carburetor Heat Valve.
6. Remove rivet (6) from the top left corner of the Carburetor Heat Valve and open the hole to 0.196 inch diameter.

**Caution**

**Insure that all metal shavings are removed from inside the Heat Valve prior to starting the engine. Engine damage may occur.**



**Figure 1**