



Model 47H-1

**MAINTENANCE &  
OVERHAUL INSTRUCTIONS**

**MODEL 47H-1  
MAINTENANCE AND OVERHAUL INSTRUCTIONS  
TEMPORARY REVISION 47-16-2**

REFERENCE: Alert Service Bulletin 47-15-27 R1

REASON: To improve integrity check of the Throttle Linkage and graphically clarify proper securing procedure of the Throttle Linkage.

SECURING OF THE THROTTLE CONTROL LINKAGE

Revise the Maintenance and Overhaul Instructions as follows:

- Add the "RECORD OF ACTIVE INTERIM & TEMPORARY REVISIONS" (pages TR1 through TR4) immediately prior to the "LIST OF REVISED PAGES ISSUED" (page A) in the M&O manual. Review the M&O manual for integration of these Interim & Temporary Revisions.
- Remove "Model 47H-1 Maintenance and Overhaul Instructions Temporary Revision 47-15-1" from the M&O manual, then mark as removed on the "RECORD OF ACTIVE INTERIM & TEMPORARY REVISIONS" page.
- Section I, Daily Inspection, Page 1-34, Rev Original, 15 May 1955  
FUEL, OIL AND IGNITION SYSTEMS AND ENGINE COMPARTMENT  
Add new Step 7 to address throttle linkage-carburetor security check:

7. Inspect throttle, mixture, carburetor heat and fuel shut-off controls for general condition and security. Check controls for freedom of operation and full operating range. Check the throttle linkage-carburetor attachment for condition and security, for the presence and correct installation of the throttle arm lock bolt, washer, self-locking nut and safety wire, and for intact Anti-Sabotage Lacquer. If Anti-Sabotage Lacquer is found fractured, prior to further flight perform inspection to determine cause, then perform corrective action. Re-apply Anti-Sabotage Lacquer.
- Section III, Page 3-14, Rev Original, 15 May 1955  
Modify Paragraph 3-42 (a) as follows:

**Delete:** "Tighten arm lock-screw, safety wire across outboard side of throttle arm to forward stop arm".

**Replace with:** "Install Throttle Arm Lock Bolt, Washer and Self-Locking Nut, add Safety Wire, then apply Anti-Sabotage Lacquer as shown on pages 3-14(a)TR 47-16-2 through 3-14(e)TR 47-16-2".
- Insert pages 3-14(a)TR 47-16-2 through 3-14(e)TR 47-16-2 (Appendix 1 of this document).



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- Insert page 3-15TR 47-16-2 (Appendix 1 of this document).
- Enter "Model 47H-1Maintenance and Overhaul Instructions Temporary Revision 47-16-2" on the "RECORD OF ACTIVE INTERIM & TEMPORARY REVISIONS" page.



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**RECORD OF ACTIVE INTERIM & TEMPORARY REVISIONS**

<b>Revision Number</b>	<b>Chapter/Page Number</b>	<b>Issue Date</b>	<b>Date Inserted</b>	<b>By</b>	<b>Date Removed</b>	<b>By</b>
H58-2	Section VI, pg. 6-9	1 July 1958				
H58-3	Section VI, pg. 6-5	1 July 1958				
H58-4	Section III, pg. 3-10	1 July 1958				
H58-12	Section IV, pg. 4-41	1958				
H59-2	Section I, pg. 1-45	26 June 1959				
H59-3	Section I, pg. 1-45	6 July 1959				
H59-4	Section VI, pg. 6-34	15 July 1959				
H59-5	Section IV, pg. 4-16	1 August 1959				
H59-6	Section I, pg. 1-53	11 August 1959				
H60-1	Section I, pg. 1-60	1 March 1960				
H60-4	Section I, pg. 1-60	15 October 1960				
H-61-1	Section I, pg. 1-51	6 October 1961				
H-61-2	Section I, pg. 1-12	6 October 1961				
H-61-3	Section I, pg. 1-13	6 October 1961				
H-61-4	Section I, pg. 1-40	6 October 1961				
H-61-5	Section VI, 6-25	20 October 1961				
H61-6	Section I, pg. 1-13	15 December 1961				
H61-7	Section I, pg. 1-29	15 December 1961				
H61-8	Section I, pg 1-37	15 December 1961				
H61-9	Section I, pg. 1-39 thru 1-58	15 December 1961				
H61-10	Section I, pg. 1-39	15 December 1961				
H62-2	Section VI, pg. 6-31	2 March 1962				
H62-3	Section VI, pg. 6-36	2 March 1962				
H62-5	Section I, pg. 1-48	4 May 1962				
H62-6	Section I, pg. 1-53	4 May 1962				
H62-7	Section I, pg. 1-33	1 June 1962				
H62-8	Section I, pg. 1-34	15 June 1962				
H62-9	Section IV, pg. 4-24	29 June 1962				
H62-10	Section IV, pg. 4-10	29 June 1962				
H62-11	Section VII, pg. 7-9	13 July 1962				
H62-13	Section I, pg. 1-39	4 September 1962				
H62-14	Section I, pg. 1-47	4 September 1962				
H62-16	Section I, pg. 1-39	8 October 1962				
H62-18	Section III, pg. 3-20	31 October 1962				



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H62-20	Section V, pg. 5-21	23 November 1962				
H62-21	Section I, pg. 1-31/1-32	23 November 1962				
H62-22	Section V, pg. 5-21	23 November 1962				
H63-1	Section I, pg. 1-31/1-32	25 January 1963				
H63-2	Section I, pg. 1-3	3 May 1963				
H63-3	Section I, pg. 1-39	27 September 1963				
H63-4	Section I, pg. 1-43	27 September 1963				
H63-5	Section I, pg. 1-34	8 November 1963				
H64-1	Section VII, pg. 7-20	3 July 1964				
H64-2	Section VI, pg. 6-35	10 July 1964				
H64-3	Section I, pg. 1-49	10 July 1964				
H64-4	Section V, pg. 5-13, 5-17	17 July 1964				
H64-5	Section VI, 6-28	28 August 1964				
H64-6	Section IV, pg. 4-13	4 September 1964				
H64-8	Section IV, pg. 4-17	9 October 1964				
H64-9	Section V, pg. 5-20	30 October 1964				
H64-10	Section V, pg. 5-15	30 October 1964				
H64-11	Section V, pg. 5-14, 5-15	30 October 1964				
H64-12	Section III, pg. 3-13	27 November 1964				
H64-13	Section III, pg. 3-13	27 November 1964				
H64-14	Section IV, pg. 4-17	4 December 1964				
H65-1	Section VI, pg. 6-38	12 March 1965				
H65-3	Section IV, pg. 4-42	21 May 1965				
H66-1	Section IV, pg. 4-1	4 February 1966				
H-66-2	Section III, pg. 3-29	4 March 1966				
H-1-66-3	Section III, pg. 3-10B	4 March 1966				
H66-4	Section VI, pg. 6-27	4 March 1966				
H1-66-5	Section III, pg. 3-10	29 April 1966				
H66-6	Section VI, pg. 6-5	20 May 1966				
H66-7	Section IV, pg. 4-25, 4-26	27 May 1966				
H66-9	Section VI, pg. 6-11	1 July 1966				
H1-66-10	Section VI, pg. 6-29	1 July 1966				
H66-11	Section II, pg. 2-2	22 July 1966				
H66-12	Section IV, pg. 4-13	22 July 1966				
H66-13	Section VI, pg. 6-29	29 July 1966				



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H66-14	Section VI, pg. 6-31	12 August 1966				
H66-15	Section I, pg. 1-12	19 August 1966				
H66-16	Section VI, pg. 6-11	2 September 1966				
H66-17	Section IV, pg. 4-14	21 October 1966				
H66-18	Section IV, pg. 4-43	21 October 1966				
H66-19	Section I, pg. 1-34	18 November 1966				
H67-1	Section V, pg. 5-19	10 February 1967				
H67-2	Section V, pg. 5-21	17 March 1967				
H67-3	Section IV, pg. 4-21	21 April 1967				
H67-4	Section IV, pg. 4-42, 4-43	28 April 1967				
H67-5	Section IV, pg. 4-42	2 May 1967				
H67-6	Section IV, pg. 4-25	2 May 1967				
H67-7	Section IV, pg. 4-20, 4-21	2 May 1967				
H67-8	Section II, pg. 2-5, 2-6	16 June 1967				
H68-1	Section I, pg. 1-13	5 January 1968				
H68-2	Section I, pg. 1-17, 1-21	26 January 1968				
H68-4	Section IV, pg. 4-33	5 April 1968				
H68-5	Section V, pg. 5-10 thru 5-12	21 June 1968				
H68-6	Section VI, pg. 6-28	16 August 1968				
H68-7	Introduction, pg. i	20 December 1968				
H1-69-2	Section V, pg. 5-21	14 February 1969				
H-1-69-3	Section V, pg. 5-20	6 October 1969				
H-1-70-1	Section III, pg. 3-17	23 January 1970				
H70-2	Section IV, pg. 4-6	13 March 1970				
H-1-70-3	Section IV, pg. 4-8	20 March 1970				
H-1-71-1	Section I, pg. 1-31/1-32	19 March 1971				
H1-71-2	Section I, pg. 1-1	26 March 1971				
H72-1	Section I, pg. 1-31/1-32	10 November 1972				
47-15-1	1-34	11 February, 1015				

TR3 (Temporary Revision 47-16-2)



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47-15-1	3-15	11 February, 1015				
47-16-2	1-34	01 November 2016				
47-16-2	3-14	01 November 2016				
47-16-2	3-14(a)TR 47-16-2 through 3-14(e)TR 47-16-2	01 November 2016				
47-16-2	3-15TR 47-16-2	01 November 2016				



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# Appendix 1



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## **MAINTENANCE & OVERHAUL INSTRUCTIONS**

*This Temporary Revision inserts pages 3-14(a)TR 47-16-2 through 3-14(e)TR 47-16-2 linked to paragraph 3-42 “Adjustment – Throttle Control”, and revises verbiage on pages 1-34 and 3-14.*

### **Acceptable Means of securing the Throttle Linkage**

**Note:** The intent of securing the Throttle Linkage is to firmly safety the Throttle Arm to the Carburetor Stop Arm.

#### **Warning:**

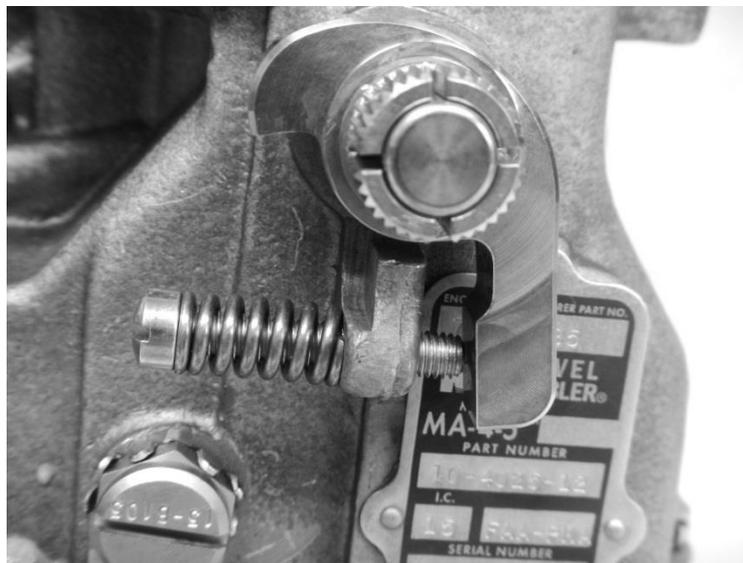
**Without properly securing the Throttle Linkage, a separation between the Throttle Arm and the Serrated Shaft can occur, resulting in loss of throttle control!**

The securing of the Throttle Linkage consists of:

- a) Installation of the Throttle Arm to the Serrated Shaft with a bolt, washer and self-locking nut.
- b) Safetying the Throttle Arm to the Carburetor Stop Arm with Safety Wire.

Both steps must be performed in order to prevent separation between the Throttle Arm and the Carburetor Stop Arm.

- Prior to securing the Throttle Linkage, ensure that the Aircraft Throttle Control is rigged as instructed in Paragraphs 3-41 and 3-42. Ensure that Carburetor Stop Arm is resting firmly against the properly adjusted Idle Stop Screw.



**Figure 3-13a: Idle Position**



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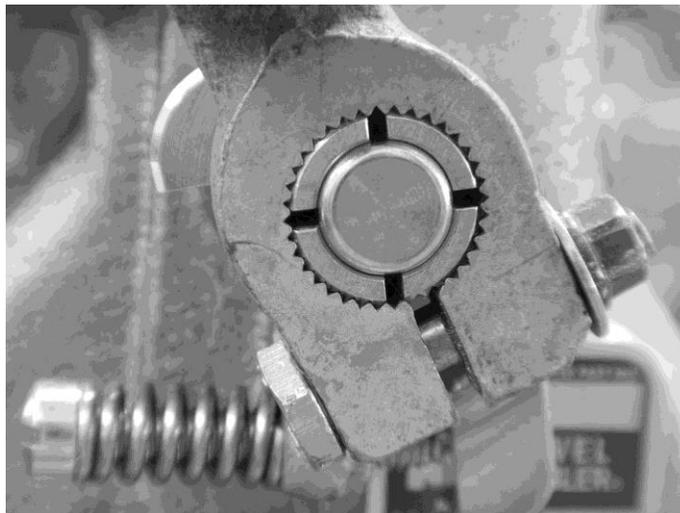
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### ***Installation of the Throttle Arm to the Serrated Shaft***

**Note: This step is crucial for flight safety.**

**Caution: Ensure that Serrated Shaft and mating surfaces are free of oil and lubricants.**

- Ensure that Throttle Arm is clocked as described in Paragraph 3-42(a) and as shown in Figure 3-13 while Carburetor Stop Arm remains firmly set against the Idle Stop Screw.
- If not previously performed, drill-through both Throttle Arm holes with a #11 drill bit (.1910"). Install AN3-10A Bolt, NAS1149F0332P Washer, and MS21042-3 Self-Locking Nut as shown in Figure 3-13b. Torque to 20-25 inch/lbs.



**Figure 3-13b: Proper installation of Throttle Arm to the Serrated Shaft**

### ***Safety Wiring of Throttle Arm to Carburetor Stop Arm***

**Note: This step is crucial for flight safety.**

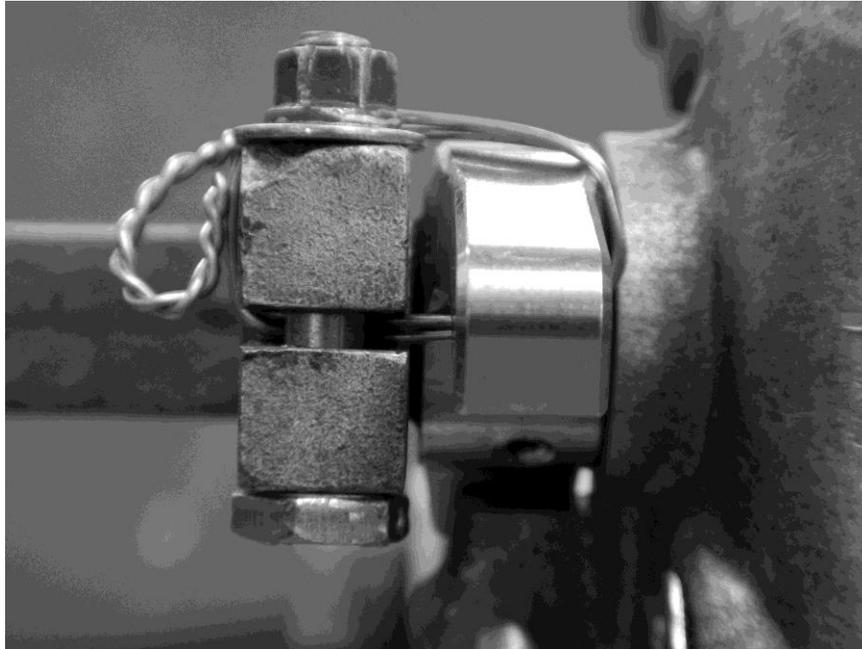
- Originating at the Carburetor Stop Arm, route 0.032" Safety Wire around Carburetor Stop Arm and Throttle Arm as shown in Figures 3-13c thru 3-13e. All safety wiring is to be performed in accordance with AC 43.13-1B.



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**Figure 3-13c: Safety Wiring of Throttle Arm to Carburetor Stop Arm**



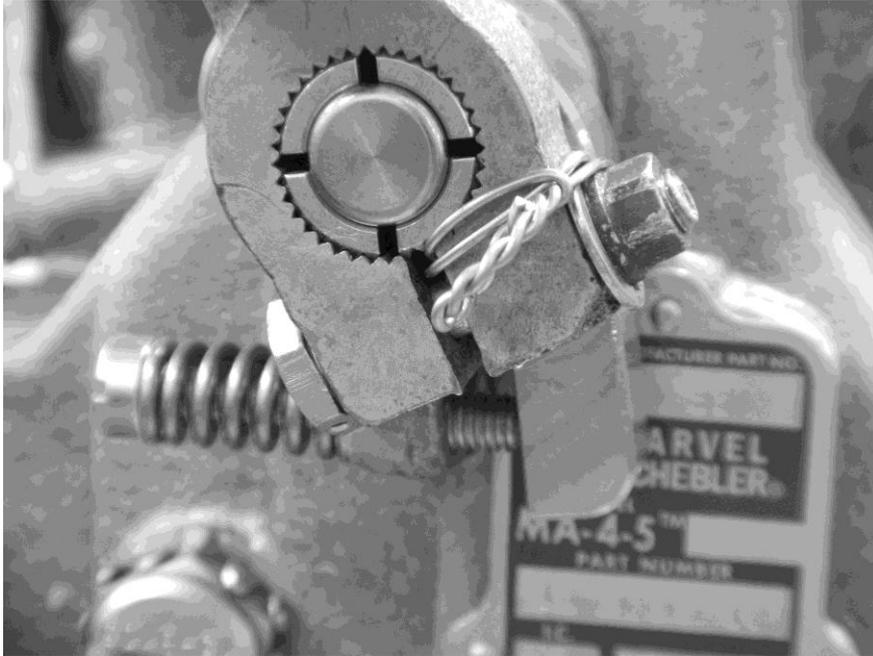
**Figure 3-13d: Safety Wiring of Throttle Arm to Carburetor Stop Arm**



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**Figure 3-13e: Safety Wiring of Throttle Arm to Carburetor Stop Arm**

***Functionality Check***

- Move Throttle Linkage from idle to the wide open throttle position several times to verify full freedom of motion.



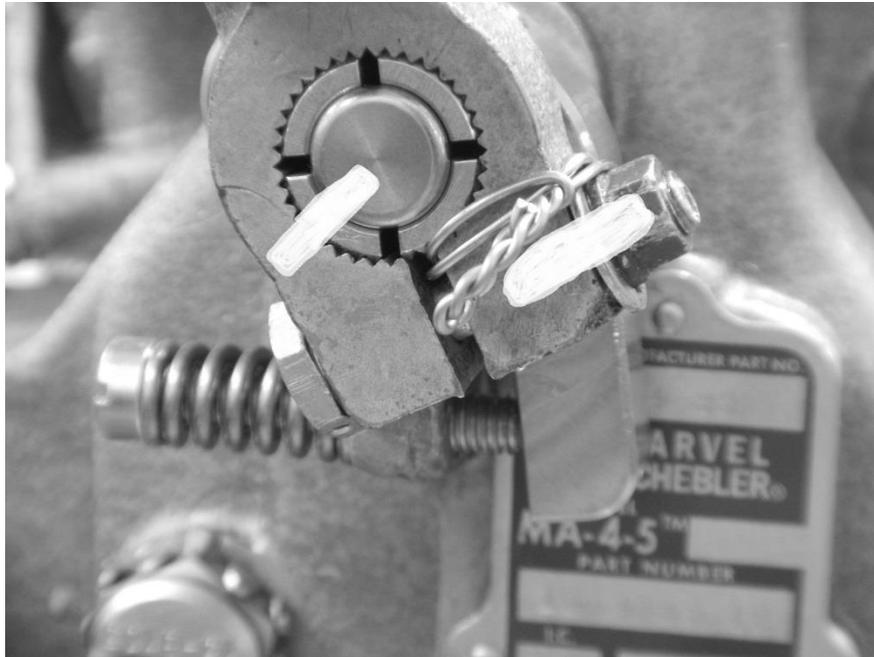
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***Apply Anti-Sabotage Lacquer to Throttle Linkage***

- Apply Anti-Sabotage Lacquer (Torque-Seal or equivalent) between the Throttle Arm and the Serrated Shaft, as well as between the Self-Locking Nut and the Throttle Arm (areas shown in white in Figure 3-13f).



**Figure 3-13f: Application of Anti-Sabotage Lacquer**



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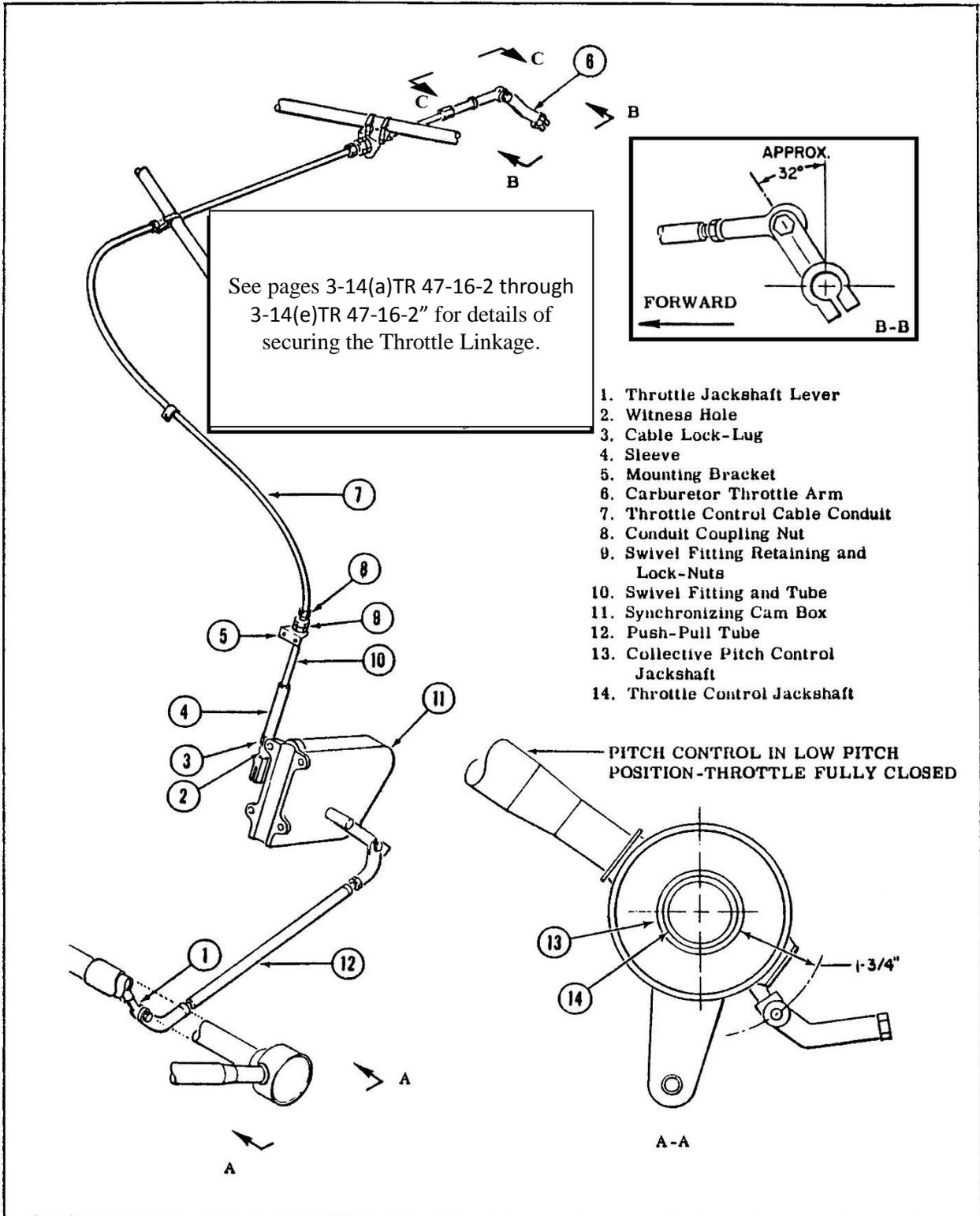


Figure 3-13. Adjusting Throttle Linkage