

EXTRACT

MODEL 172RG SERVICE MANUAL

SECTION 11

ENGINE

WARNING

When performing any inspection or maintenance that requires turning on the master switch, installing a battery, or pulling the propeller through by hand, treat the propeller as if the ignition switch were ON. Do not stand, nor allow anyone else to stand, within the arc of the propeller, since a loose or broken wire, or a component malfunction, could cause the propeller to rotate.

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- 11-76. **RIGGING.** When adjusting any engine control it is important to check that the control slides smoothly throughout its full range of travel, that it locks securely if equipped with a locking device and the arm or lever it operates moves through its full arc of travel.

CAUTION

Whenever engine controls are being disconnected, pay particular attention to the **EXACT** position, size and number of attaching washers and spacers. Be sure to install attaching parts as noted when connecting controls.

NOTE

Refer to the inspection chart in Section 2 for inspection, replacement and/or lubrication interval for the throttle control.

11-77. THROTTLE CONTROL.

NOTE

Before rigging throttle control, check that control end (13) is secure. If any indication of looseness or breakage is apparent, replace throttle control.

- a. Screw friction lock nut (2) into threads of barrel (7).
- b. Ensure washer (5) and nut (6) on forward side of panel are secure.
- c. Push knob assembly (1) full in against friction lock nut (2), then pull knob assembly out approximately 1/8-inch to obtain "cushion."
- d. Tighten friction lock nut (2) against barrel (7).
- e. At the carburetor, attach throttle arm hardware to rod end (16).

NOTE

Ensure palnut (17) is on threads of plunger (18) before installing rod end (16).

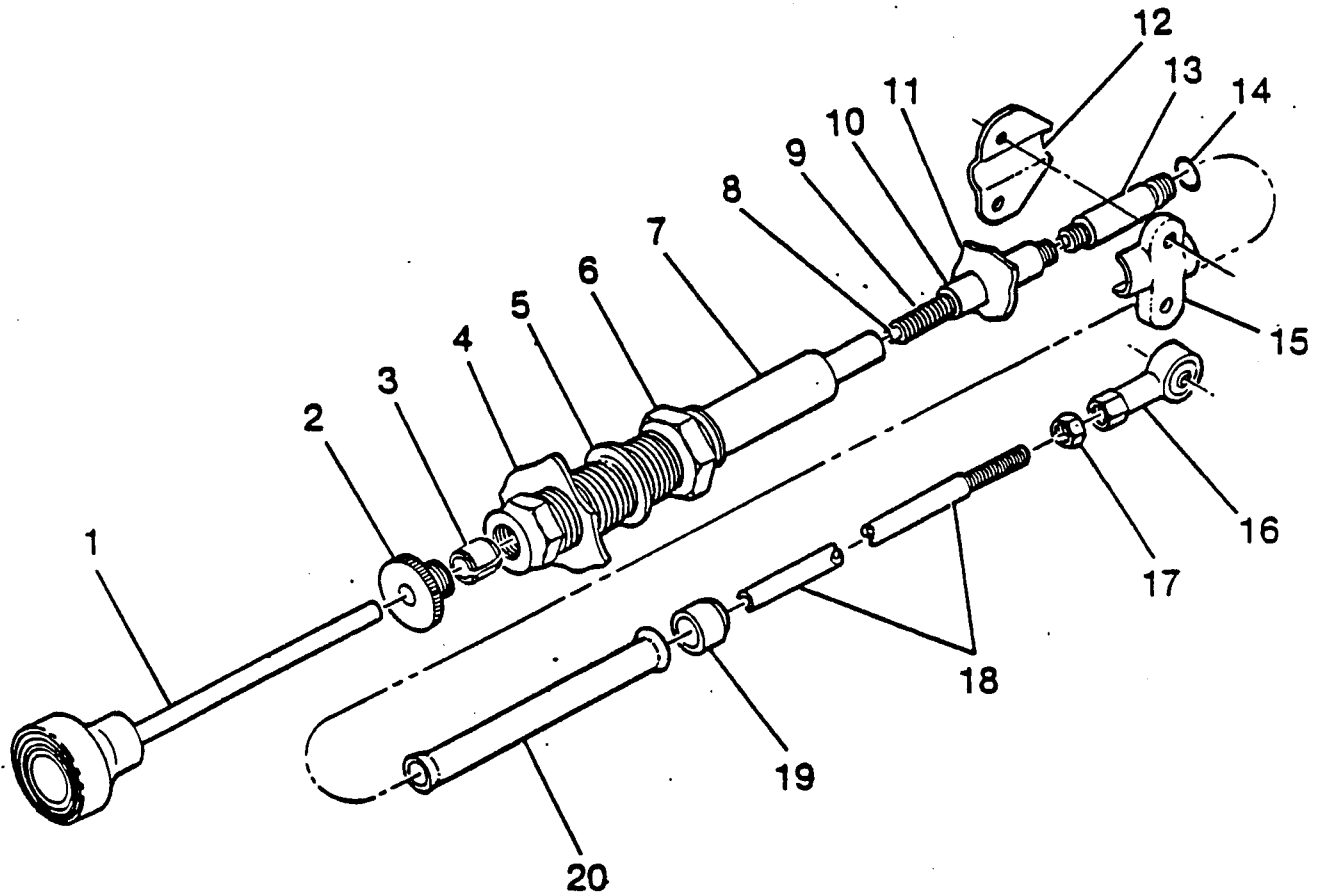
- f. Screw rod end (16) up threads of plunger (18) until throttle arm contacts full power stop; secure rod end with palnut (17).

NOTE

→ Ensure that rod end (16) is threaded on to plunger (18) so that .020-inch safety wire cannot be installed through drilled hole in rod end.

- g. Check control end (13) clamping in bracket (12) and clamp (15).
- h. Pull knob assembly full out and check that idle stop on carburetor is contacted.
- i. Work throttle control in and out several times to check for binding.

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1. Knob Assembly
2. Friction Lock Nut
3. Locking Collet
4. Instrument Panel
5. Washer
6. Nut
7. Barrel
8. Core
9. Casing
10. Clamping Sleeve
11. Firewall
12. Bracket
13. Control End
14. Packing
15. Clamp
16. Rod End
17. Palnut
18. Plunger
19. Plunger Seal
20. Plunger Guide

Note serrated faces of throttle arm and stop.

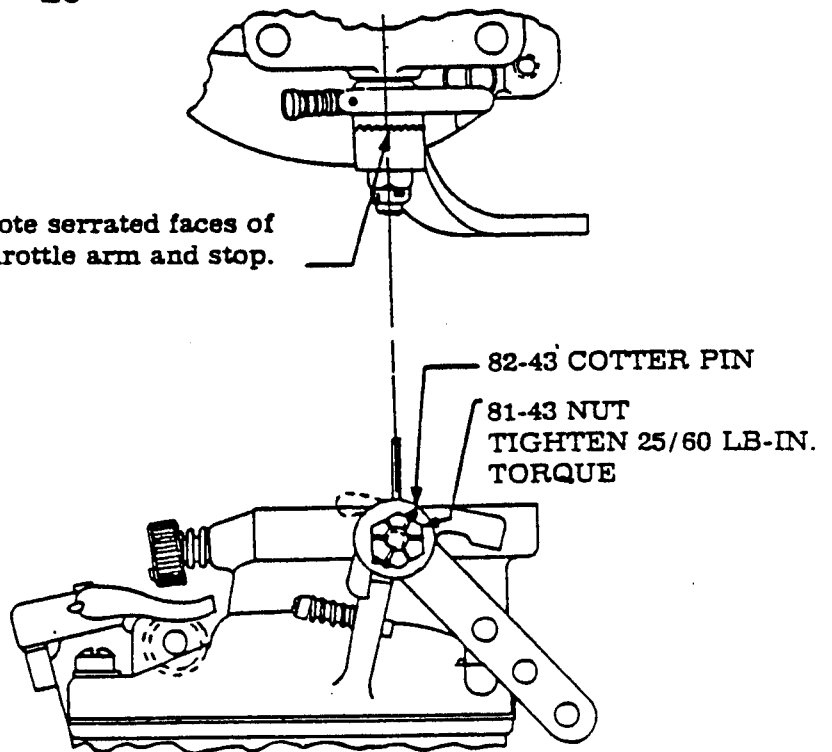


Figure 11-3. Throttle Control and Throttle Arm to Idle Stop Adjustment