

III. MAGNETO CAM ADJUSTMENT

NOTE: Magneto cam and throttle lever have been adjusted at the factory. No adjustments are necessary, unless magneto cam or throttle lever are replaced. These adjustments are:

1. Clearance between magneto cam and swivel link should be $9/32''$ (7.144mm). (Clearance is $3/8''$ [9.525mm] on 1965 model.) Readjust, if necessary, by loosening 2 screws and moving magneto cam in slots. Tighten screws securely. (Figure 3)
2. With magneto in full advance position, loosen screw which secures throttle lever to carburetor and adjust throttle shutter to wide open position. Tighten screw securely. (Fig. 4)

3. Retard magneto so that throttle lever is on cam plateau (economy position). Bend throttle lever, if necessary, to obtain $.089''$ (2.2606mm) throttle shutter opening. (Opening is $.045''$ [1.1430 mm] to $.070''$ [1.7780mm] on 1965 model.) Check with No. 43 drill (No. 52 on 1965 model). (Figure 5)

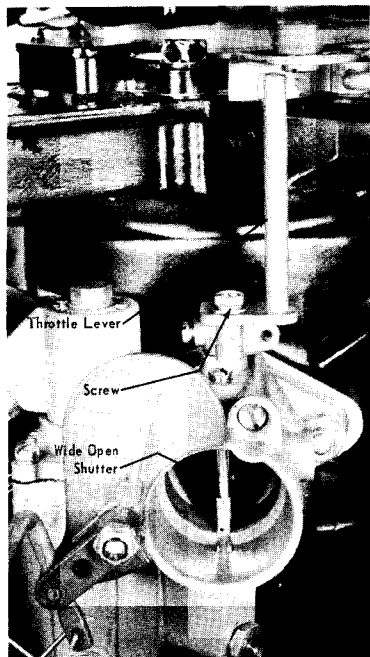


Figure 4. Throttle Shutter Adjustment

4. Retard magneto to idle position. If necessary, bend end of leading edge of magneto cam to touch throttle lever approximately $1/4''$ (6.350mm) to $3/8''$ (9.525mm) from end of cam. (Figure 6)

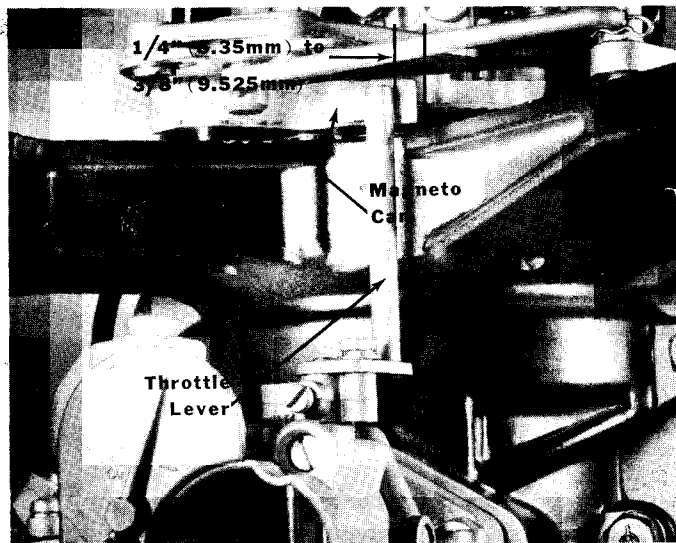


Figure 6. Magneto Cam Touching Throttle Lever

IV. SHIFT AND THROTTLE LINKAGE ADJUSTMENT

1. Place motor in forward gear and adjust shift control rod to obtain $3/8''$ (9.525mm) clearance between shift lever and rear of slot in bottom cowl. (Figure 7)



Figure 5. Checking Throttle Shutter Opening

2. Place motor in neutral gear; adjust throttle stop control rod so that throttle control lever is centered in neutral slot of throttle stop lever. (Figure 8)

V. ADJUSTMENTS IN TEST TANK, CARBURETOR ADJUSTMENTS

A. High Speed Adjustment

1. The standard jet, installed at the factory, is recommended for operation from sea level to 4000 ft. (1219.2 m) elevation.

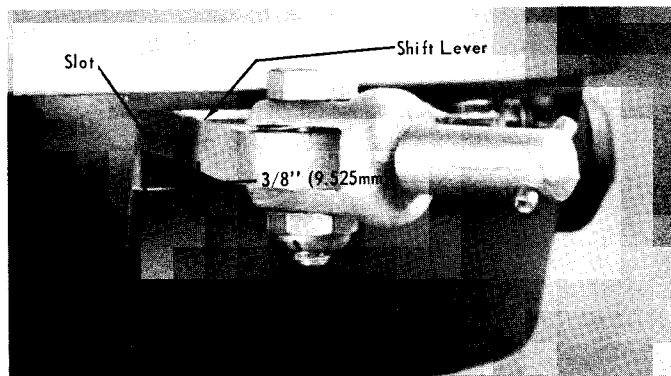


Figure 7. Clearance between Shift Lever and Cowl

- a. If engine is operated above 4000 ft. (1219.2 m) elevation, select and install correct jets from chart following (aperture decreases $.002''$ [0.0508 mm] as elevation increases each 3000 ft. (914.40 m).
- b. Before changing jets, check engine out, unless previous tests indicate exact jet size.

Model		
Merc 350 Jet Size		
*Up to 4000' (1219.2m)	4000'-7000' (1219.2m-2133.6m)	7000'-10,000' (2133.6m-3048.0m)
.069" (1.7526mm)	.067" (1.7018mm)	.065" (1.6510mm)

* Standard Jet - Factory Equipped

- c. No change in spark advance is recommended for elevation operation. Propellers of lower pitch should be used at high elevations to allow proper engine RPM.
- d. Engine can be tested in test tank with propeller or test wheel.