

2. Insert new welch plug over idle by-pass chamber and tap center of plug to hold plug in place.
3. Seal with Liquid Neoprene (C-92-25711).

⑦ IDLE ADJUSTMENT SCREW

Place spring on idle adjustment screw and thread into carburetor.

ADJUSTMENTS

HIGH SPEED ADJUSTMENT

1. Jet size recommendations are intended as a guide (like a propeller chart). Try size larger or smaller if in doubt. See jet sizes in "Specifications" Section 8.
2. 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.
3. Engine can be tested in test tank with propeller or test wheel.

IDLE ADJUSTMENT (Figure 10)

1. Idle adjustment also has been set at factory. If readjustment is necessary, it can be done with a test wheel or regular propeller in test tank or on boat.
2. Start with all idle needles one turn open and adjust for maximum RPM with distributor retarded to give about 600-700 RPM. (Figure 10)
3. Warm engine before attempting adjustment.
4. With engine running at idling speed while in forward gear, turn low speed mixture adjusting needle counterclockwise until affected cylinders start to "load up" or fire unevenly due to over-rich mixture. (Figure 10)
5. Slowly turn needle clockwise until cylinders fire evenly and engine picks up speed.
6. Continue turning clockwise until too-lean a mixture is obtained and engine slows down and misfires.
7. Set adjustment screw $\frac{1}{2}$ to $\frac{3}{4}$ -turn counterclockwise from lean-out position to gain approximate true setting.
8. Do not adjust leaner than necessary to attain reasonably smooth idling.

9. When in doubt, it is preferable to have mixture set slightly rich rather than too lean.



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Figure 10. Idle Speed Adjustment

10. If engine hesitates during acceleration after adjusting mixture idle, it is too lean, and idle mixture should be enriched slightly until engine accelerates correctly.
11. Idle engine and adjust "idle stop" screw on stop bracket so that engine idles at recommended RPM (see Section 3E) in forward gear.
12. Run engine in forward gear (4000 to 5000 RPM) to clear engine and recheck idle speed.