

# Aisan Carburetors

## AISAN 1-BARREL (TOYOTA F ENGINES)

Toyota Land Cruiser (Before 1970)

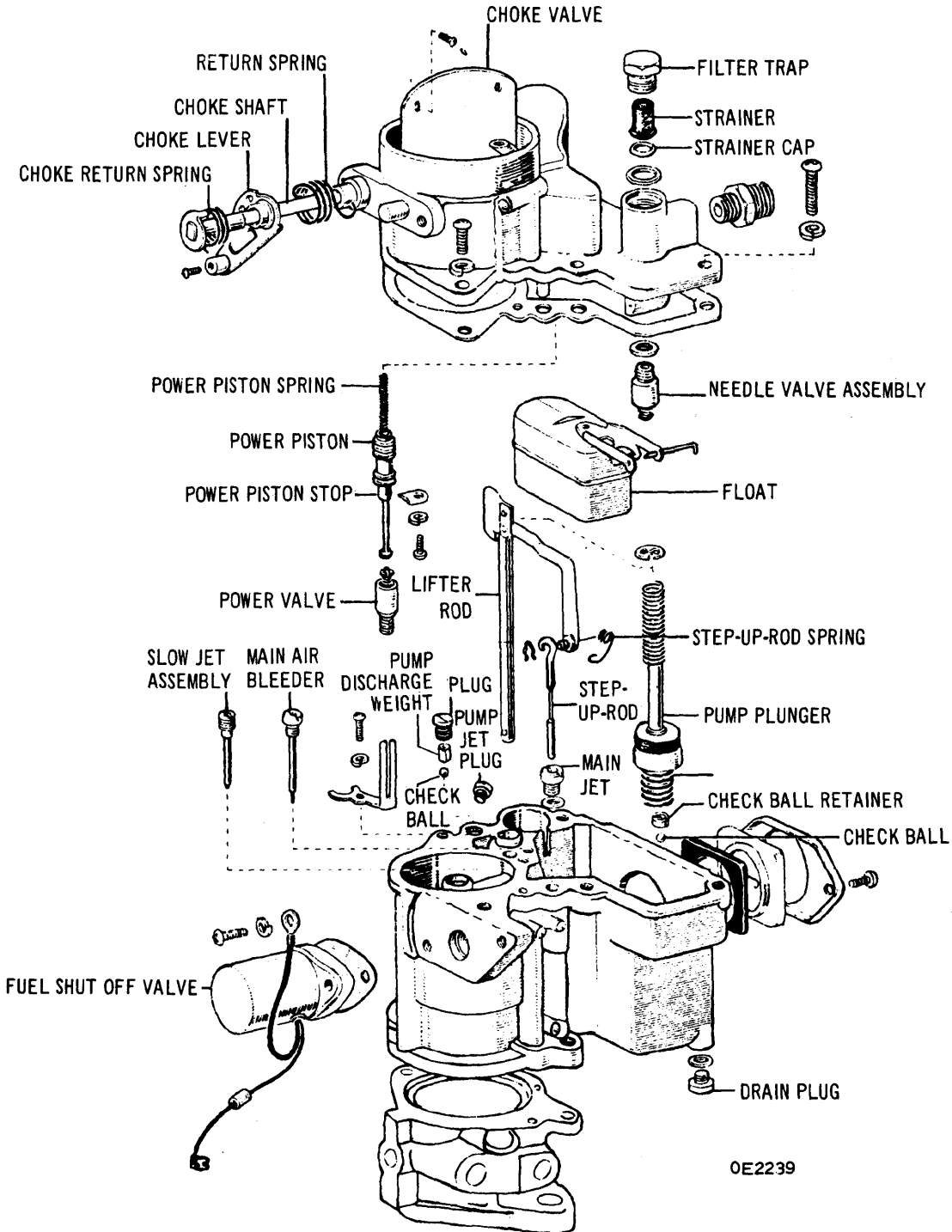
magnetic fuel shut off switch to prevent engine running after key is switched off. Fuel shut off also prevents fuel overflow when engine compartment is hot.

### DESCRIPTION

The carburetor on the 135 HP. Toyota Land Cruiser is a single barrel down draft type, with a cable operated flap type choke valve. Carburetor is also equipped with a

### ADJUSTMENT

**NOTE** - Carburetor adjust kit 09240-60030 or equivalent is required to perform the following adjustments:



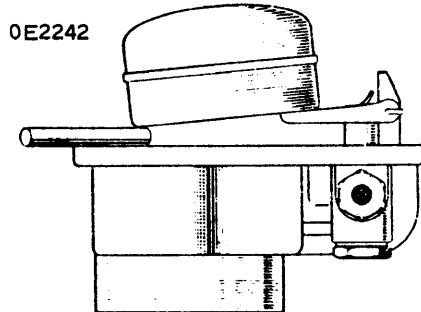
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**CARBURETOR COMPONENTS**

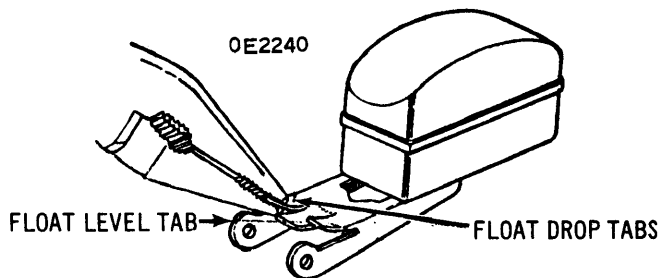
## AISAN 1-BARREL (TOYOTA F ENGINE) (Cont.)

### Float Level Adjustment

Turn carburetor cover top side down. Clearance between of float and cover gasket surface should be .23" (5.8 mm). To adjust clearance bend middle float tab.



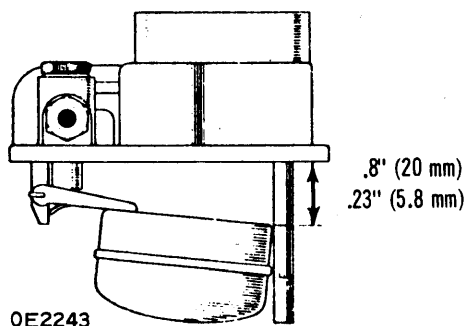
FLOAT LEVEL ADJUSTMENT



FLOAT TAB ADJUSTMENT

### Float Drop Adjustment

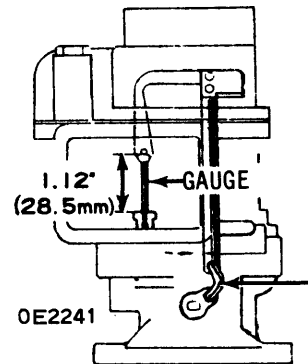
Turn carburetor cover top side up. Clearance between top of float and gasket surface should be .8" (20 mm). To adjust clearance bend two outside float tabs.



FLOAT DROP ADJUSTMENT

### Step-Up-Rod-Adjustment

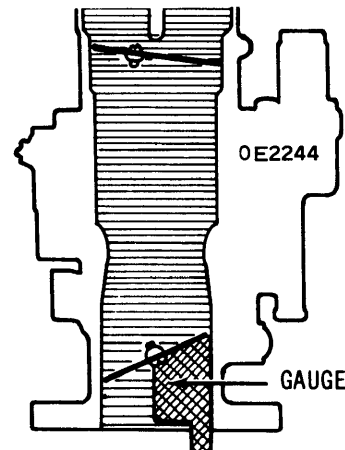
After assembling lifter rod and pump plunger to carburetor body, install throttle connecting link, and check height of step-up-rod position. Using gauge provided in kit, height should be 1.12" (28.5 mm). Adjust if necessary by bending throttle connecting link (see illustration). This check should be made with throttle valve closed and throttle adjusting screw out.



STEP-UP-ROD ADJUSTMENT

### Fast Idle Adjustment (Bench)

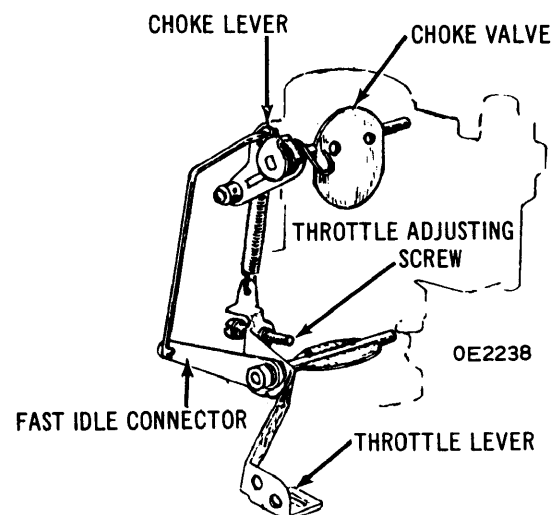
Close choke valve completely. Place gauge on throttle valve (see illustration). Adjust to proper angle by bending fast idle connector at existing bend.



FAST IDLE ADJUSTMENT

### Idle Speed & Mixture

Turn throttle valve adjusting screw and idle mixture screw alternately to obtain a steady and highest vacuum reading with smooth operation. Idle speed should be 600 RPM, and vacuum should be at least 18".



CHOKE & FAST IDLE LINKAGE

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## AISAN 1-BARREL (TOYOTA F ENGINE) (Cont.)

### OVERHAUL

#### Disassembly

- 1) Remove magnetic fuel shut off valve, fast idle connector and throttle lever spring. Remove five screws and remove carburetor cover from main body being careful not to damage float.
- 2) Remove throttle connecting link. Remove two screws and separate main body from cast flange.
- 3) To disassemble carburetor cover, remove float lever pin and float. Remove needle valve push pin, spring, needle valve, and seat. Remove filter trap and strainer. Remove power piston stopper, power piston, and spring.

4) To disassemble main body, slide out lifter rod together with pump plunger and metering rod. Remove pump spring and lifter rod guide.

5) Remove main power jet, and power valve. Remove slow jet and main air bleeder. Remove screw plug and invert carburetor body to remove pump discharge weight and check ball. Remove idle adjusting screw and spring.

6) Clean all parts thoroughly, blow out all passages with compressed air. Check power piston and accelerator pump for smooth operation, inspect strainer for dirt and rust. Check choke valve for proper and smooth operation. Replace all worn or defective parts.

#### Reassembly

Be sure to make all adjustments called for in adjustment section and use all new gaskets. Reassembly is reverse of disassembly.