

#### **PLEASE NOTE:**

Throttle bodies and runners have a right and a left side. If the runners have nozzle bosses on them, air bleed the holes in the bosses. The holes should face rear of the engine.

Right side throttle body has 3/8" heim for the cross shaft. Left side has 5/16" heim.

If you need further assistance please call us at 1-812-386-6254.

#### **PUTTING YOUR INJECTOR TOGETHER:**

- 1) Unpack and lay out all parts.

A complete system should consist of:

- (2) Throttle bodies
  - (2) Runners
  - Valley plate
  - Barrel valve
  - Cross shaft
  - (8) Ram tubes
- 2) Bolt the valley plate to the block. Using the second bolt hole from each end, bolt the runners down to the heads. (These are alignment holes.)
  - 3) Use a light to check that the ports line up. If the ports and water holes line up, remove the runners and valley plate.
  - 4) Using RTV or gaskets bolt the valley plate and runners back on the engine.
  - 5) Use a light coat of RTV on the top of the runners; bolt the throttle body to the runners using 1/4"-20 x 1/2" nylon or stainless bolts.
  - 6) Once both throttle bodies are bolted on, take the cross shaft starting from the right side and slide it through the 3/8" heim. As you slide the shaft across to the 5/16" heim, also slide the linkage from each throttle body onto the cross shaft. Once the shaft is through the 5/16" heim, install 5/16" nut on the end of shaft and tighten.
  - 7) Position the arm on the end of the cross shaft to where your accelerator linkage would be at an idle. (Usually at 45 degrees forward) Then, slide the right throttle body linkage so that the outside of the arm is even with the inside of the wide part of the throttle body. With the butterflies shut, tighten the arm. Now work the throttle shaft back and forth. If the shaft works freely, set the left side the same.
  - 8) After setting both sides, make sure both sides hit the idle stop at the same time and the wide open stop at the same time. If they don't you may have to slide the throttle body linkage arm on the cross shaft. If you do this, move it in small amounts at a time and re-check the stops.
  - 9) Once you have that set, slide the barrel valve arm on the spool shaft.

#### **SETTING THE BARREL VALVE:**

- 1) Look in the inlet in the tip of the barrel valve and turn the spool until you see a hole in the spool.
- 2) Hook up a leak down tester & set the percentage desired then tighten the pinch bolt on the arm.
- 3) With the tester still hooked up, move the throttle to wide open slowly. Make sure the percentage goes up. If at any time the percentage goes down then back up, you started on the wrong side of the spool.
- 4) Start over and make sure the hole in the spool is straight up before you start.