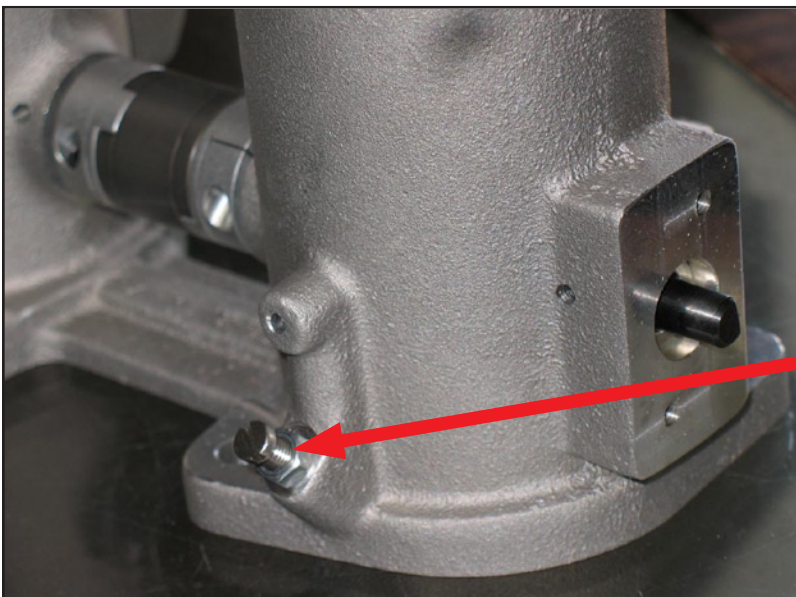


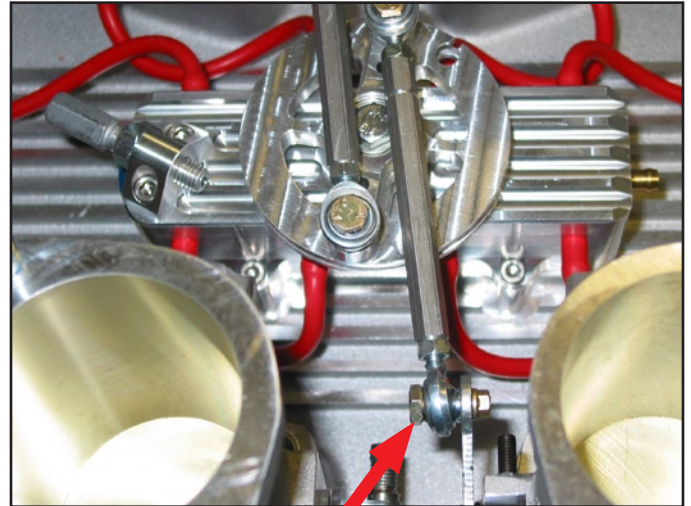
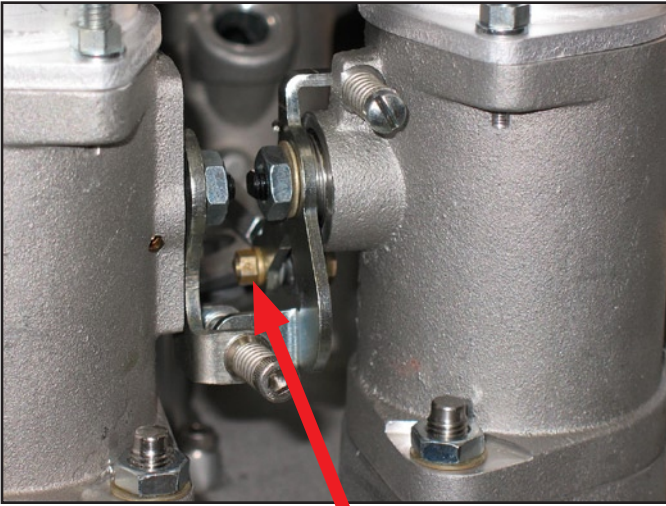
Synchronizing V8 Throttle Bodies

Essential to the proper operation of your TWM throttles kit is that all the throttles open and close at the same time. This is basically the same process as synchronizing multiple carburetors. The following process should be carried out as soon as you have an ECU calibration which will run the engine at an idle speed around 1000 RPM. TWM supplies an STE airflow meter with every V8 kit.

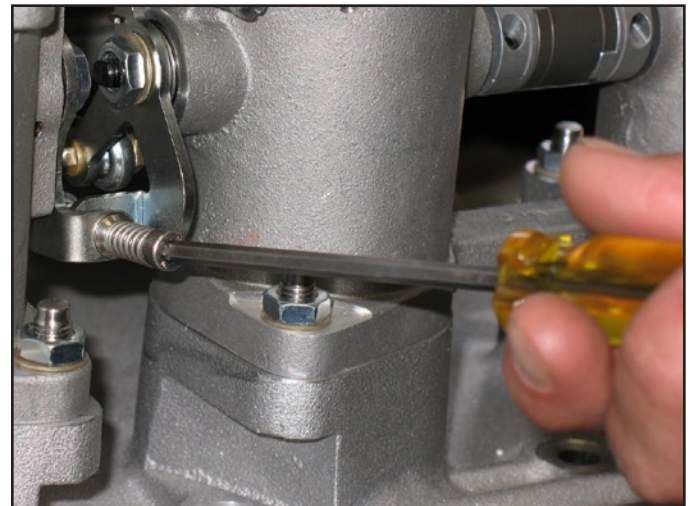
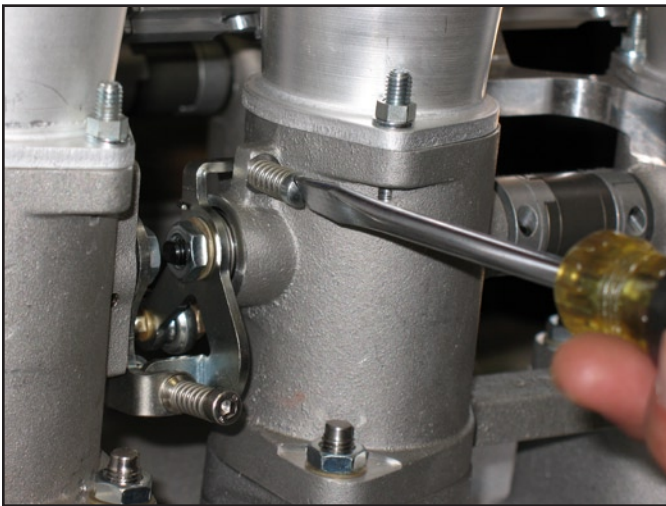
The Illustration shows its use.



1. Loosen locknuts and turn all by-pass screws to fully closed. (58 mm throttles only)



2. Disconnect center pull linkage at throttle levers.



3. Back off throttle stop screws. You cannot adjust the center compensating linkage unless you allow room for the throttle stop to move back
4. Adjust each compensating screw between the front and rear units on each bank of throttles to synchronize air flow through the closed throttles, on that bank. All eight throttles should be within 1 graduation on the STE/TWM air flow meter.
5. Fine adjustments between throttles on the same bank can be made by adjusting the by pass screws, if necessary. (58 mm throttles only)
6. Reconnect center pull linkage adjusting the linkage rods to set the throttles closed on both banks, then check bank to bank synchronization. Adjust linkage rods as necessary. The air flow meter readings, when you are finished, should read about the same as the readings before you re-connected the center pull linkage rods.
7. Bring the throttle stop screws into contact with the idle tang on the lever and then apply an extra 1/8th to 1/4th of a turn. Note. The throttles are meant to be **virtually closed at idle**, especially if an **Idle Air Control Valve (IAC)** is installed.
8. Check output from the **Throttle Position Sensor (TPS)**, which is the center terminal. You should have between .5 and .7 volts at idle with 4.5 volts at wide open throttle. If you have the reverse of these numbers you need to reverse the 5V feed and ground.