Instructions for Dual Sets with Twist Linkage
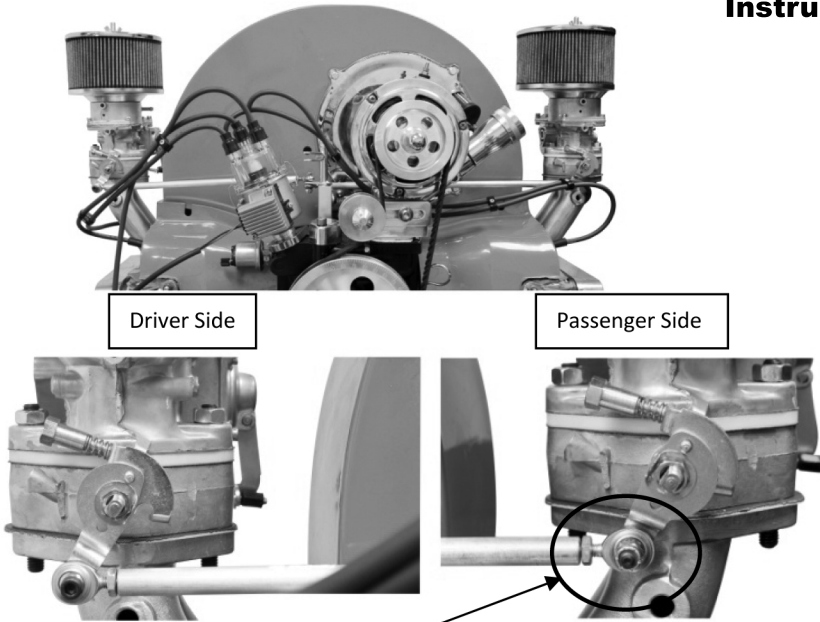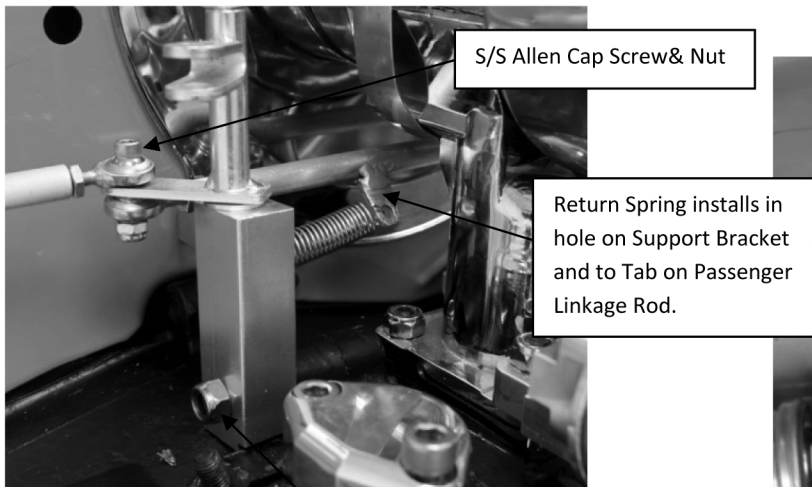

Driver Side

Passenger Side

Install Linkage Arms to carburetors.

Install Left & Right Heims with jam nuts to Linkage Rods.

Install Linkage Stand on Engine Case using bolt provided or case stud if long enough.

Install flat washer, Linkage Pivot and 5/16 Lock Nut to Stud on Linkage Stand. Tighten only enough to limit vertical movement of Linkage Pivot.

Install Linkage Support Bracket. Black Button Head Allen w/lock washer to stand, S/S Allen w/flat washer to fan housing.

Install Linkage Rods to Linkage Arms (Black Allen Cap Screws) and Pivot (S/S Allen Cap Screw)and adjust.

Install Return Spring and check for proper operation. Correct any binding or sticking before starting engine. Start the engine and Synchronize carburetors.
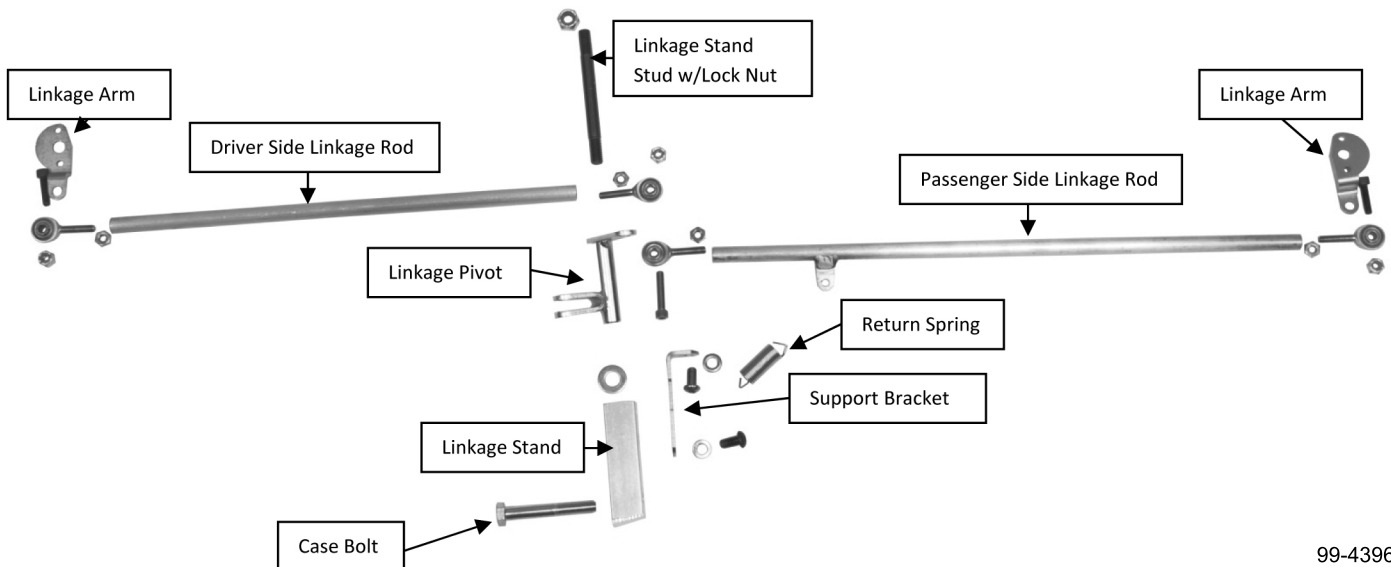

Right & Left Linkage Arms are the interchangeable. Passenger Side bolt must be installed from Inside – Nut on Outside

S/S Allen Cap Screw& Nut

Return Spring installs in hole on Support Bracket and to Tab on Passenger Linkage Rod.

If your case has a long stud you are in luck! If not, remove stud and use Bolt provided.

Support Bracket installs with groove UP, Black Button Head Allen & lock washer to the Stand – S/S Button Head Allen with flat washer to the Fan Housing.

Linkage Arm

Linkage Stand Stud w/Lock Nut

Linkage Arm

Driver Side Linkage Rod

Passenger Side Linkage Rod

Linkage Pivot

Return Spring

Support Bracket

Linkage Stand

Case Bolt

CARBURETOR SYNCHRONIZING & IDLE MIXTURE ADJUSTMENT FOR 00-5746-0 & 43-5712-0

PROCEDURE

1. Remove the air filter assemblies.

2. Disconnect the throttle linkage rods on **ALL** carburetors.

3. Turn "out" (counter clock-wise) the idle speed screw, on each carburetor, until the tip of the screw is flush with the casting. Check for binding or sticking of the throttle plates. With the idle speed screw in this position, the throttle plates should be completely closed in the bores. Correct any misalignment or binding **BEFORE** proceeding.

4. Turn "in" (clockwise) the idle speed screw, on each carburetor, until the tip of the screw just touches the carburetor lever. From this "contact" position, turn each idle speed screw exactly one (1) full turn "in". This is your preliminary set point.

5. Start the engine. **CAUTION: Be sure the loose throttle-rods are not interfering with other linkage components.**

7. To synchronize the carburetors, adjust each idle speed screw until a balanced airflow reading is obtained on the Syncrometer.

8.   After the carburetors are synchronized, reinstall the linkage rods. If the linkage rod length is not correct the throttle lever position will be affected. To adjust linkage rod length loosen the right and left handed nuts and turn the rod shaft to shorten or lengthen the rod as necessary. **NOTE: When linkage rods are properly adjusted the Syncrometer reading will remain as originally set. When rods are adjusted, lock the rod nuts in place.**

9. If idle mixture and idle speed adjustments are not required, turn engine off and remove syncrometer. Replace air filter assemblies and this procedure is complete. If idle speed adjustment is necessary, see next step.

IDLE MIXTURE & IDLE SPEED ADJUSTMENT

This "Lean-Best" idle setting procedure can be used to adjust your carburetor in the absence of an Infrared Exhaust Analyzer. Those with an analyzer can set idle mixture to the engine manufacturer's specification.

10. If a tachometer is available, install it prior to starting the engine. If a tachometer is not available, set idle mixture "by ear".

11. Start engine. Be sure engine is at operating temperature and choke is not engaged.

12. Turn "in" (clockwise) the idle mixture screw until the engine RPM begins to fluctuate on the tachometer. (If adjusting "by ear," until a noticeable change in speed is heard).

13. Turn "out" (counter-clockwise) the idle mixture screw slowly, until the engine idle speed becomes steady. Try to obtain the leanest setting without affecting the idle speed. If necessary repeat steps 13 and 14 until best setting is achieved. Repeat this procedure for each carburetor. Try to maintain a balanced setting between all carburetors. **EXAMPLE: Each carburetor idle mixture screw should be within 1/4 turn of each other.**

14. Once the idle mixture has been set, fine tune the idle speed if necessary, to meet the engine manufacturer's specification using the idle speed screw. Try to keep the adjustment equal on all carburetors.

15. Recheck the carburetor synchronization if any idle speed adjustment is made and check the linkage rod position.

16. Turn the engine off. Remove tachometer and synchronizer. Replace the air filter assemblies.