

INSTRUCTIONS

135-6721
135-6723

©Speedway Motors, Inc. September 2009

Installation and Tuning Instructions for Multi Carb linkage kit

**PLEASE READ INSTRUCTIONS COMPLETELY
BEFORE BEGINNING INSTALLATION**

This linkage kit is designed for Speedway 9 Super 7 carbs and similar Holley and Stromberg carbs when using an extended throttle shaft. It can be used on 2 carb non-progressive and 3 x 2 progressive manifolds. It can also be used on a variety of other multiple carb systems with minimal modifications.

WARNING: It is the responsibility of the user that any modifications to throttle or carb linkage on their vehicles be done in such a manor as to assure positive spring return of throttle blades to avoid over rev of the engine or injury resulting from a stuck throttle.

Two 2 BBL Non-Progressive Setup

- 1) Assemble the linkage rod by installing the jam nuts on the rod ends and inserting the rod ends into the swedge tube (note that they are right and left hand threads). Leave 2 or 3 threads exposed on each end. Do not tighten jam nuts at this time.
- 2) Install the long linkage arm on the carb shaft at approximately a 45 degree angle **Picture 1.** To accommodate your particular vehicles throttle pedal arrangement the long linkage arm may be installed on the front or back carb. The carb that the long arm is installed on is the master carb, the other will be the slave carb.

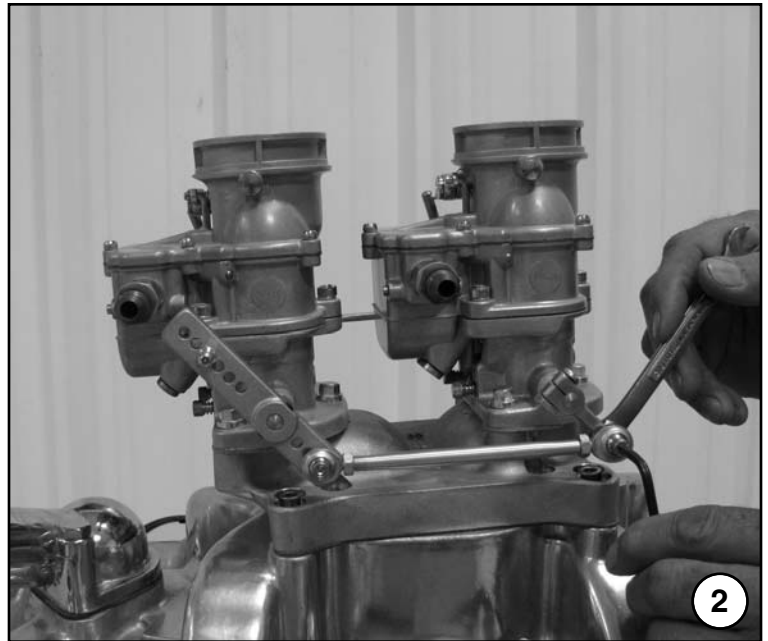


Speedway Motors Inc.,
P.O. Box 81906 Lincoln, NE 68501
402-323-3200 www.SpeedwayMotors.com



3) Install short linkage arm onto throttle shaft of slave carb. Orient at a 45 degree angle, either up and forward, or down and aft (* see following note).

4) Connect linkage rod end into 3rd hole of long throttle arm, secure with locknut. Connect other end of linkage rod onto the short linkage arm, secure with locknut.
Picture 2.



5) Connect vehicle throttle linkage into one of the upper holes of master carb throttle arm, install return spring in suitable location to assure positive throttle return. Make certain that throttle pedal travels freely and allows carbs to advance to wide open throttle.

**NOTE: If the transmission kickdown cable or throttle linkage of your particular vehicle dictates that it be connected to the lower hole in the carb arm, the linkage kit may be installed in the upper holes of both throttle arms.
Picture 3.**

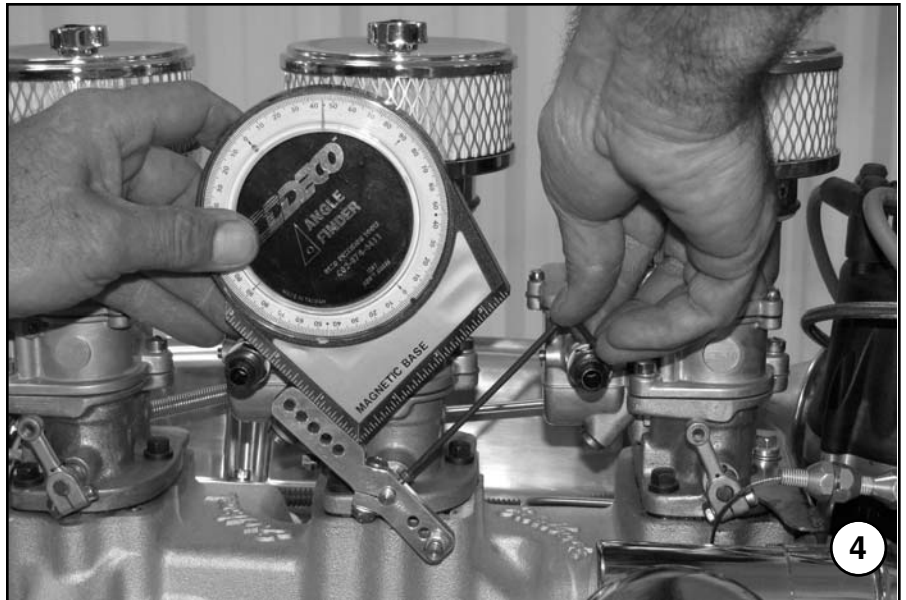


6) Back off idle speed screw of the master carb 2-3 turns, so that the throttle blades are lightly seated in the throttle bores. Unscrew and remove idle speed adjustment screw of the slave carb. With throttle blades of both carbs closed adjust the link length for an exact fit. Advance to Wide Open Throttle and verify that both carbs hit the max stop at the same time. Tighten rod end jam nuts. Turn idle speed screw of master carb in (clockwise) 1½ to 2 turns to establish a baseline. Engine idle speed adjustments will now be made at the master carb. Start engine and proceed with carb adjustment and synchronization.

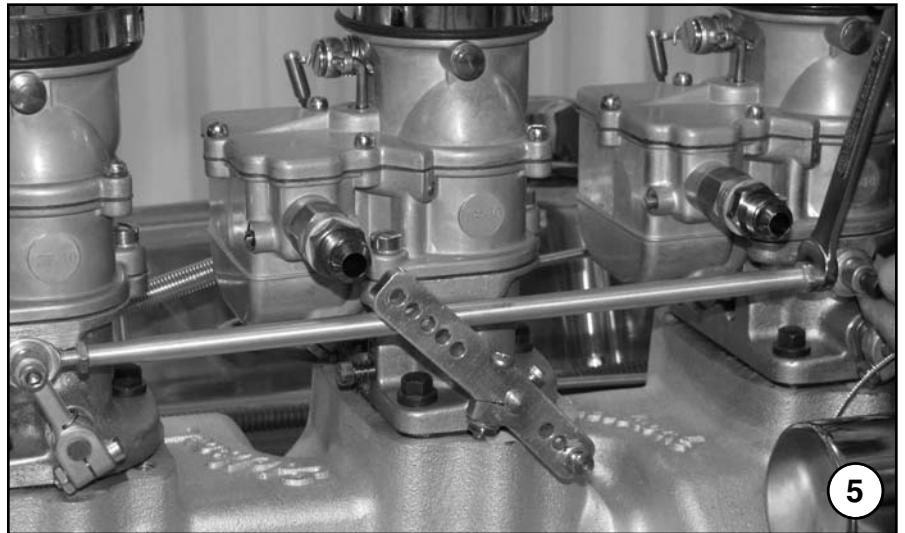
NOTE: When using a carb synchronizing tool such as our 325-4025 UNI-SYN, take the baseline airflow measurement at the master carb and adjust linkage between carbs to match the slave carb airflow to the master carb. Re-tighten jam nuts on carb link.

Three 2 BBL Progressive Setup

- 1) Install throttle arms and secondary linkage between the front and rear carb as in steps 1-5 above. Rod end of linkage goes on the inboard side of throttle arms. In a 3 carb setup, the center carb is the primary (master) and the end carbs are the secondary (slave) carbs. **Picture 4.**



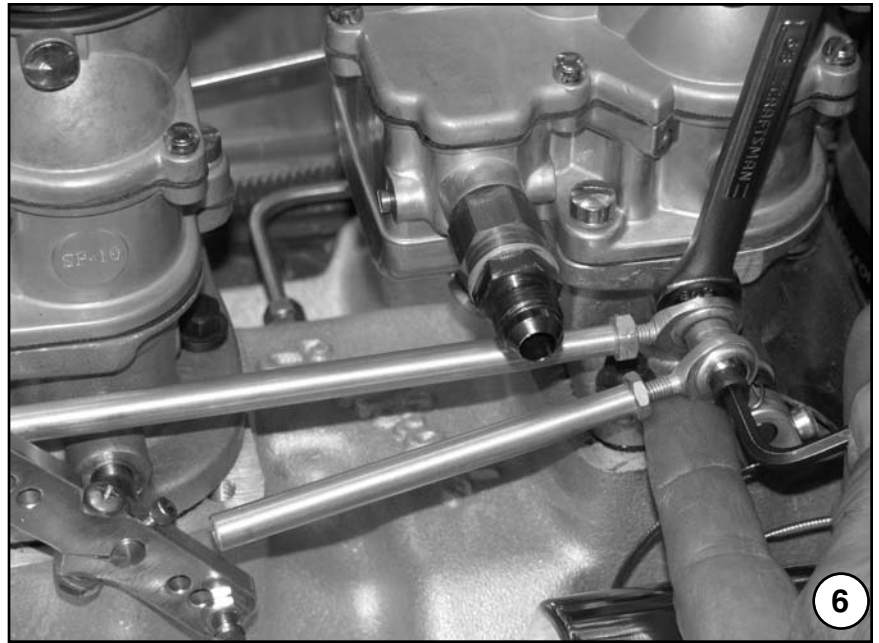
- 2) Back off idle speed screw of the rear carb 2-3 turns, so that the throttle blades are lightly seated in the throttle bores. Unscrew and remove idle speed adjustment screw of the front carb. With throttle blades of both carbs closed adjust the link length for an exact fit. Advance to Wide Open Throttle and verify that both carbs hit the max stop at the same time. Tighten rod end jam nuts. Turn idle speed screw of rear carb in (clockwise) 1 turn to establish a baseline. Engine idle speed adjustments will now be made at the primary (master) carb. **Picture 5.**



- 3) Assemble progressive slide link by installing jam nuts on rod ends and threading 1 rod end into hollow swedge tube and 1 rod end into stainless steel slider, leaving 2 or 3 threads exposed. **Picture 5a.**



- 4) Connect one end of slider link to the hole in rear carb throttle arm, with the rod end on the outboard side of arm. **Picture 6.**



- 5) Connect forward rod end of slide link to the throttle arm of the center carb. Adjust slider link so that all 3 carbs reach WOT at the same time. **Picture 7.**



NOTE: There are several adjustment holes in the primary carb throttle linkage arm. Hole positions close to the throttle shaft will start to pull the secondary carbs early, and slowly advance to WOT. Hole positions toward the end of the throttle arm delay secondary activation, but bring them to WOT at a quicker rate. **Picture 8.**

- 6) Start engine and proceed with carb adjustment and synchronization. On initial start up the idle speed will most likely be too high, reduce idle speed at the rear carb. Continue to adjust the rear carb idle screw until the throttle blades of both secondary carbs are lightly seated. Final mixture and idle speed adjustments are then made at the center carb.



IMPORTANT

DISCLAIMER

In an effort to offer our customers the low prices, quick service and great value, Speedway Motors reserves the right to change suppliers, specifications, colors, prices, materials. Each of the previous items is subject to change without notice. Speedway is not responsible for any typographical errors or misinterpretations. Quantities are limited on some items.

WARRANTY DISCLAIMER

The purchaser understands and recognizes that racing parts, specialized street rod equipment, and all parts and services sold by Speedway Motors, Inc. are exposed to many and varied conditions due to the manner in which they are installed and used. Speedway Motors, Inc. makes no warranties, either express or implied, including any warranty of merchantability or fitness for a particular purpose other than those contained in its current catalog with respect to the goods identified on the face of the invoice. There is no warranty expressed or implied as to whether the goods sold hereby will protect purchaser or ultimate user of such goods from injury or death. Speedway Motors assumes no liability after this period.

BRAKE INSTALLATION ALERT

The selection and installation of brake components should only be done by personnel experienced in the proper installation and operation of braking systems. The installer must use his/her own discretion to determine the suitability of all brake components and brake kits for every particular application. Speedway Motors, Inc. makes no warranties either expressed or implied including any warranty of merchantability or fitness for a particular purpose, other than those contained in its current catalog or website with respect to the goods identified on the face of the invoice, There is no warranty expressed or implied as to whether the goods sold hereby will protect the purchaser or ultimate user of such goods from injury or death.

DAMAGE CLAIMS

Always inspect your package upon delivery. Inspect all packages in the presence of the delivery driver. The driver must note any damage. Ask the driver the Carrier's procedures for handling damage claims. You must hold the original box, packing material and damaged merchandise for inspection or the carrier will not honor the claim. Notify Speedway Motors customer service department for instructions on returning damaged goods. Speedway is not responsible if no notification is given within 5 days of receipt.

SHORTAGES

Always check the contents of your delivery to insure all the parts that you ordered were received. Please read the invoice. Double check all packing materials, small items may be wrapped inside with these products. Shortages may occur from damage to the box, so save all packing materials. Inspect the box for holes that would allow parts to fall out. If you are missing any item(s) be sure to check your invoice for back orders or canceled items before calling the customer service department. If Speedway has to split a shipment into multiple boxes, packages may be delivered on different days. You need to contact the customer service department within 5 days of delivery to assure the prompt replacement. Speedway Motors assumes no liability after this period.

REFUSALS

All refused COD customers will be billed a 15% restocking charge plus freight to and from the destination! If you have questions please contact Speedway's customer service department.

WARRANTY CLAIMS

If an item has a manufacturer's warranty as being free from defects we will exchange only. If the item has been used and you are requesting warranty work, this may take up to 30 days as warranty work is done by the manufacturer NOT Speedway Motors. If you have any questions please contact customer service.

RETURNS

Speedway wants you to be satisfied with your purchase. If within 30 days after you receive your shipment you are not satisfied, you may return the item for refund or exchange. All exchanged or returned merchandise must be in original factory condition with no modifications or alterations. Returned merchandise must include all packaging materials, warranty cards, manuals, and accessories. If the items being returned need to be repackaged there will be a re-packing charge. Re-pack the item in a sturdy box and include a copy of your invoice and complete the form on the back of the invoice. You must ship orders back **PRE-PAID. WE DO NOT ACCEPT COD SHIPMENTS.** All exchanges need to have reshipping charges included. Items that are returned after 30 days are subject to 15% restocking charges. All fiberglass returned will have 15% restocking charge. No returns on electrical parts, video tapes, and books. Absolutely no returns on special order or close out merchandise.

FREE CATALOGS

Speedway Motors offers FREE catalogs for Race, Street, Sprint and Midget, Sport Compact and Pedal Car Restoration.

Some items are not legal for sale or use in California on pollution controlled motor vehicles. These items are legal in California for racing vehicles only which may never be used upon a highway.

**Speedway Motors Inc.,
P.O. Box 81906 Lincoln, NE 68501
402-323-3200 www.SpeedwayMotors.com**

