



POWERCHARGER 250 & 420 MEGABLOWER THROTTLE LINKAGE

P/N 93167 & 93168

1. Assemble the large 5/16" rod ends into the two 5/8" sq. x 2" long brackets. The locknut is secured on the top of the bracket. Bolt the notched end of the bracket to the carburetor base.
2. Slide the long serrated inlet shaft through the left rod end with the long serrations to the right. Slide on one of the locking collars with a set screw. Slide one arm onto the long serrated end. Slide a second arm onto the long serrated end. The arms will be slightly less than 90° apart from each other. Slide the serrated shaft into the right rod end.
3. Slide first the other locking collar and then the left arm onto the short serrated portion of the long shaft. The left arm should line up fairly perpendicular with the middle arm. Tighten the screws on both the arms and locking collars.
4. Assemble the small rod ends into the three hex bars. The end of the hex bar that has the groove on the outside is the left-hand thread. The two long hex bars are used to connect the linkage arms to the carburetor arms.
5. Attach one end of the hex bar assembly to the linkage arms using a 10-24 x 7/8" bolts and locknuts. Enclosed with the linkage kit are two pair (four pieces) of carburetor arm spacers. These spacers are placed on both sides of the large hole in the carburetor arm. The opposite end of the hex bar assembly is attached to these spacers using the 10-24 x 1" bolts and locknuts.
6. By rotating the two hex bar assemblies, it is now easy to synchronize the carburetors. It is not necessary to remove the hex bar assembly to adjust the carburetors. After the linkage has been set, secure the 3/8" hex nuts at the ends of the hex bars.
7. Included in the kit is a bell crank assembly that is bolted to the blower housing. This assembly consists of:
 - ◆ Two bellcranks
 - ◆ One body with arms
 - ◆ Two sealed ball bearings installed
 - ◆ One 5/16" x 1 3/4" stainless bolt
 - ◆ One 5/8" O.D. x 5/16" I.D. x .60 long spacer
 - ◆ Six 10-24 x 5/8" stainless bolts
 - ◆ One 5/16" O.D. x 1/8" wide spacer
8. Insert the 5/16" x 1 3/4" bolt through the opposite end of the bell crank body. Slide the 5/8" O.D. x .60 long spacer over the threaded portion of the bolt. This portion of the bell crank assembly can now be securely attached to the side of the blower housing.
9. Attach one end of the short hex bar assembly to the outside of the right linkage arm on the long serrated shaft. Use a 10-24 x 7/8" bolt and locknut. Attach the opposite end to the bell crank arm using the 10-24 x 1" bolt, locknut, and 5/16" O.D. x 1/8" wide spacer. The spacer goes between the rod end and the bell crank arm. Adjust the length of the short hex bar until the opening and closing of the carburetors is smooth and there is no binding on the bell crank assembly.
10. In the kit is a plate that is counterbored on one face and has four tapped holes on one edge. This plate attaches to the rear bearing housing of the blower. Secure this plate to the blower using the 1/4-20 x 1 1/4" bolts and 7/16" O.D. x .40 long spacers. The spacers go between the plate and the blower. The 10-24 tapped holes on the edge of the plate are designed to accept the Morse quick disconnect clamp (Morse P/N 36174).
11. The bell crank body has nine equally spaced tapped holes. The bell crank arms have twelve equally spaced through holes. By selecting the appropriate three equally spaced holes, the arms can be orientated in ten degree increments. The position of the outside bell crank arm depends on the direction of the linkage or cable coming from the foot pedal. If this linkage pulls, the arm will be pointing at approximately the 11 o'clock position. If the foot pedal linkage pushes, the arm will be 180° opposite, or in approximately the 5 o'clock position. Select the appropriate position of the bell crank arm and attach it to the bell crank body using three 10-24 x 5/8" bolts.

NOTE: The difference between the 93167 & 93168 kits are the length of the hex bar assemblies.

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The bell crank arms are made with one side flush and the other side recessed. Using three of the 10-24 x 5/8" bolts, attach one arm to the bell crank body with the recessed side toward the body.

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