

Installation of Throttle Adapter On Honda GX-Series Engines

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PRECISION

Before beginning assembly you should ensure that you have the adapter, throttle shaft, torsion spring, and set screw, as pictured below.



Assemble Throttle Shaft and Butterfly Plate on to Carburetor.



Place the Throttle Adapter loosely on the Shaft and rotate fully **Counter Clockwise** against the stop, i.e. to the full throttle setting.

While holding the Throttle Adapter in this position, now adjust the position of the Butterfly Plate to the full throttle position.

Generally this position is with the Butterfly Plate oriented at 90° to the carburetor opening (parallel to the airflow) or just a few degrees past the 90° position, according to preference.



Holding everything steady, tighten down the setscrew securely using a 5/64" Allen key.

This ensures that the Adapter, Shaft and Butterfly Plate are correctly oriented to the maximum throttle position against the carburetor end stop.



Remove the Butterfly Plate from the shaft and then remove the Shaft and Adapter together from the carburetor.

DO NOT REMOVE THE SHAFT FROM THE ADAPTER.



Assemble the Spring on to the Adapter using the following sequence.

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Place the Spring over the Shaft loosely as shown, with part of the Spring under the slow running stop.

Make sure that the small axial leg on the Spring is oriented close to the hole drilled on the underside of the Adapter.



Feed the three coils of the Spring over the Slow Running Stop, one at a time so that they are all together around the Adapter's Spring bearing surface.

It helps to use fine needle nose pliers for this part but forcing is not necessary.



Move the Spring body around, if necessary, and insert the small axial leg of the spring

into the retaining hole, ensuring that it is fully inserted.

Insert the Shaft back into the Carburetor body and rotate the large leg of the spring so that the "eye" can be slipped over the spigot on the carburetor with the Adapter stops oriented between the idle running and full throttle stop positions.



Replace the Butterfly Plate on the throttle shaft with the screw.

The Carburetor is now ready for use.

CAUTION

Ensure that the small radial leg of the spring is fully inserted into the hole on the underside of the adapter top.

Also ensure that none of the spring coils overlap and that the adapter rotates freely.

The spring efficiency relies on the coils being able to slide over each other freely. Ensure that it is kept lightly lubricated with a light weight oil.

Failure to observe the above will result in rough operation and premature spring breakage.

