



EFI Hardware - Throttle Stop, Idle Stop
& Return Spring Mechanism
Part # 810-005
Technical Diagram - Page 1 of 2
Drawing Revision 1 - 14/12/2012



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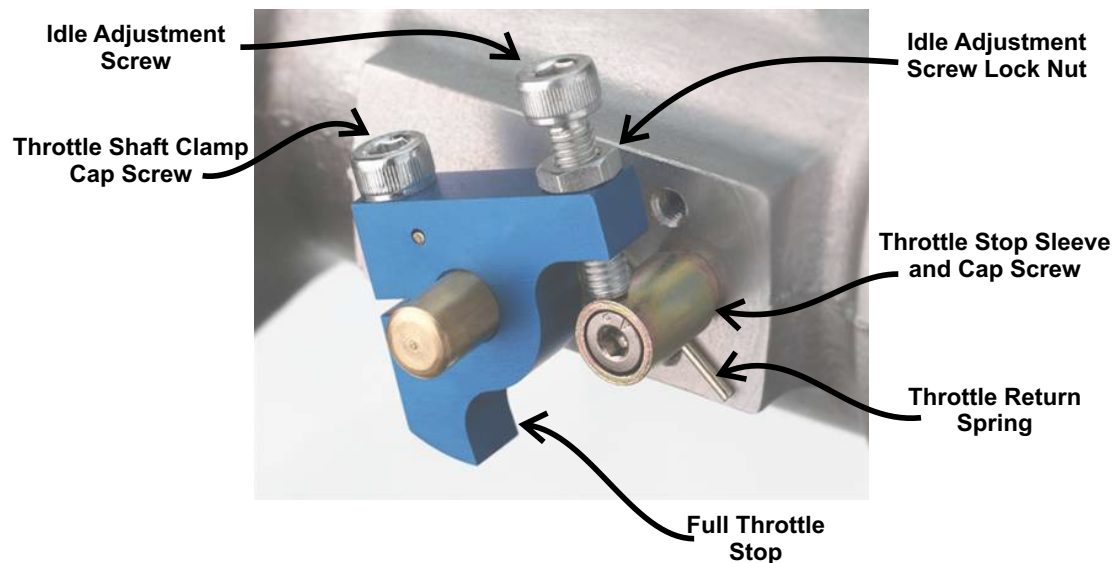
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FEATURES / BENEFITS: This Throttle Stop Linkage provides the benefit of incorporating idle speed adjustment, spring return and full throttle stop in one mechanism.

This linkage can be used on both Clockwise and Counter Clockwise throttle applications.

810-005 is shipped with spring 810-001 (Counter Clockwise - Standard). After initial fitment, you may prefer to change the spring rate up or down to suit your preferences - See details below under Throttle Stop Spring Types.

Component View



Checkout This Instructional Video
www.efihardware.com/efi_videos_technical.php#ThrottleStop



Throttle Stop Spring Types

Counter Clockwise Rotation



Clockwise Rotation





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FITTING INSTRUCTIONS:

- First determine which end of the throttle body the Throttle Stop is to be attached to. In a single throttle body application this will usually be opposite to the end to the Throttle Position Switch. On a multiple throttle body application this will usually be at the front most or rear most position of the complete multi unit assembly.

NOTE: The linkage must be fitted to a round 8mm or 5/16" throttle shaft. Do not mount the linkage to a "D" sectioned shaft, as the Throttle Stop will come loose and move on the shaft.

- Looking at the end of the throttle body, determine which direction of rotation your throttle shaft operates (clockwise or counter clockwise).

- At the throttle body end, attach the long throttle stop sleeve to the throttle body using the supplied M4 x 16mm cap screw to the appropriate hole location.

- Take the Throttle Return Spring and linkage and insert the short 90° tang of the spring into the small hole of the linkage.

NOTE: There are different tensioned Throttle Return Springs allowing you to tune your throttle and throttle pedal setup to suit your application and driving style. See the website for details - www.efihardware.com.

- Align the spring's coil to the throttle shaft hole to the linkage and slide the assembly onto the throttle shaft. The long tang of the spring will need to be tensioned clear to allow the Idle Adjustment Screw past the top of the Throttle Stop Sleeve.

- The spring will now be located on the throttle shaft and between the linkage and the Throttle Body.

HIGHLY RECOMMENDED ACCESSORIES

EFI Hardware Injector Flow and Power Calculator.

www.efihardware.com/apps.php



ADJUSTMENT INSTRUCTIONS:

- Open the throttle(s) fully and ensure they are at 90 degrees to the throttle bores.

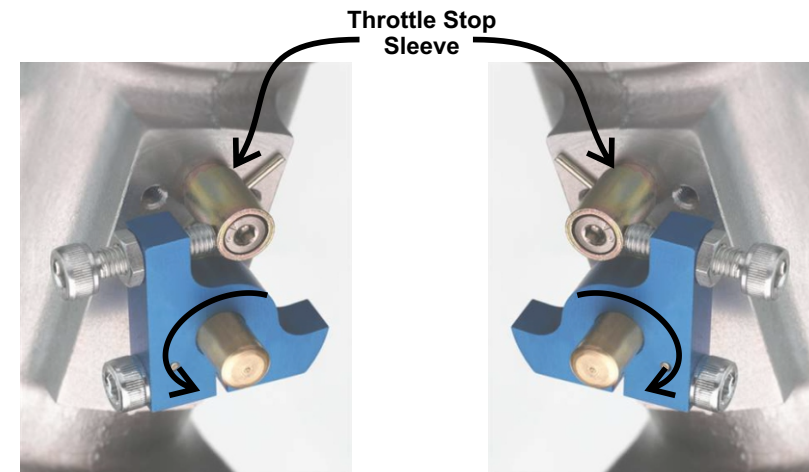
- Rotate the linkage around the throttle shaft so that the Full Throttle Stop is hard up against the Throttle Stop Sleeve.

- Tighten the Throttle Shaft Clamp Cap Screw. The full throttle setting is now adjusted.

- Wind out the Idle Adjustment Screw until the Butterflies are holding the throttle shaft in the fully closed position. Wind in the Idle Adjustment Screw until it just touches the Throttle Stop Sleeve. Now turn the Idle Adjustment Screw clockwise for one full rotation. Tighten the Idle Adjustment Screw Lock Nut. The closed throttle setting is now complete for initial startup.

NOTE: Minor adjustment of the Idle Throttle Adjustment Screw will be needed with the engine at normal operating temperature.

That's it! You've finished installing a Throttle Stop and Return Spring Mechanism.



Anti Clockwise Opening
Throttle Shown
At Idle Position

Clockwise Opening
Throttle Shown
At Idle Position