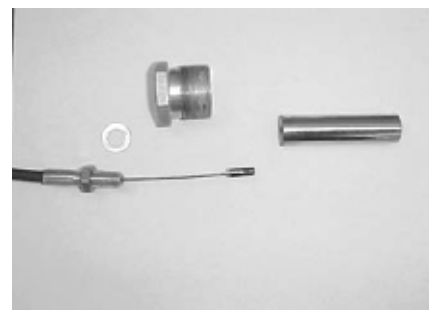
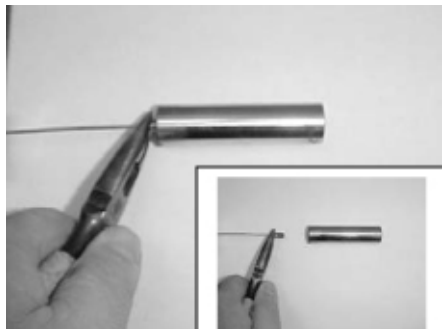
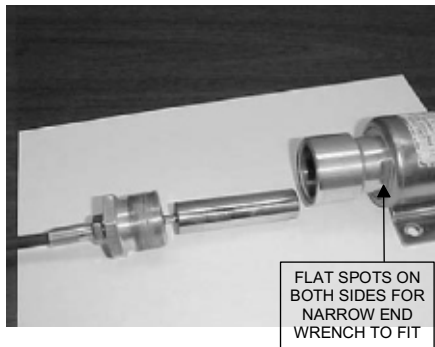
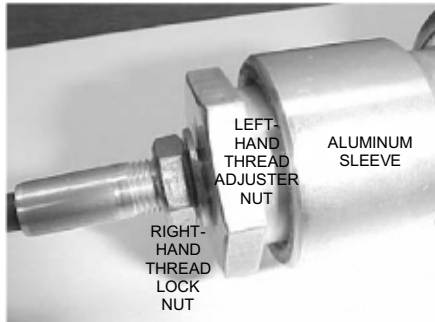
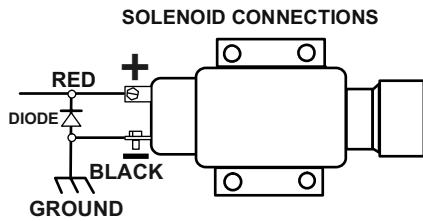
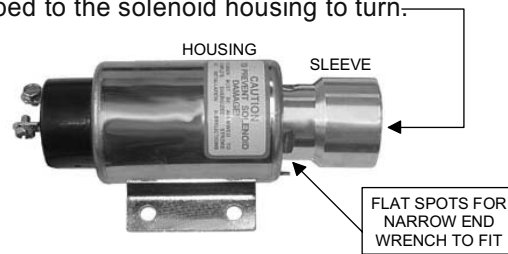


# Removing the Cable on a PennTex High Idle Solenoid



Disconnect the batteries on the vehicle to prevent any accidental electrical damage. When removing the cable and solenoid from the vehicle, note the locations of the wires on the back of the solenoid. The Red wire goes to the Positive terminal and the Black wire goes to the Negative terminal. The diode stripe goes toward the Red wire. Note the location of lock washers and flat washers on the cable. No lock washer is used at the solenoid as in this photo. To remove the large adjuster nut from the solenoid, hold the adjuster nut, and turn the solenoid **CLOCKWISE** until the solenoid separates from the adjuster nut (this is **LEFT-HAND** thread). **NOTE:** Do not allow the aluminum sleeve crimped to the solenoid to turn.

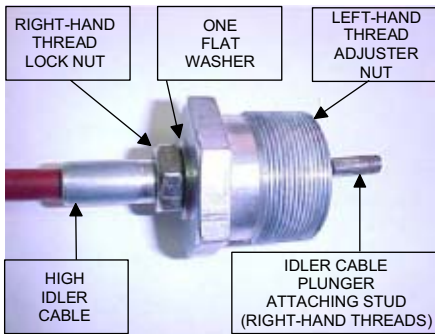


With the solenoid removed from the adjuster nut, the solenoid plunger is visible. The cable is attached to the plunger with a standard-thread stud crimped to the end of the cable. Locktite 290 Threadlocker has been used to secure the stud to the plunger. **NOTE:** if doing more than one cable replacement at a time, be sure to install the same large adjuster nut back in the solenoid it originally came from. Machining tolerances can vary and matched solenoids and plungers are used.

To remove the stud from the plunger, grip the stud with a pair of pliers and turn the solenoid counter-clockwise. Sometimes it might be necessary to apply heat to the plunger with a low-temperature heat gun to loosen the bond of the Threadlocker. To aid in removal of the stud, the plunger can be clamped in a vise as long as the plunger is wrapped in protective material, and the vise is not over-tightened. Severe damage to the surface of the plunger will result from vise jaws that are not protected. The stud can then be removed by turning the stud/cable counter-clockwise.

To finish removing the cable, unscrew the large adjusting nut from the cable. Note that one flat washer is used between the cable lock nut and the adjuster nut. No lock washer is used. See "Installing the Cable on a PennTex High Idle Solenoid" instructions for reassembly information.

# Installing the Cable on a PennTex High Idle Solenoid



## PARTS LIST:

(Parts available from PennTex Parts Warehouse Distributors- see Warehouse Distributor List at [www.penntexusa.com](http://www.penntexusa.com))

IDLER CABLE ONLY: PI-0110

SOLENOID PLUNGER ONLY: PI-0108

IDLER SOLENOID ONLY: PI-0268

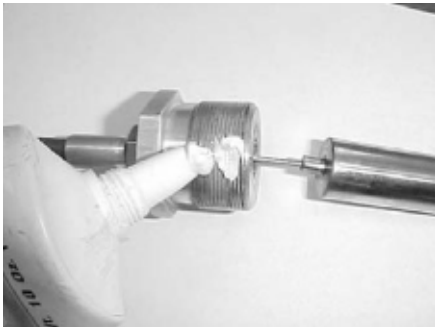
SOLENOID & CABLE ASSEMBLY (W/ PLUNGER): PI-0144



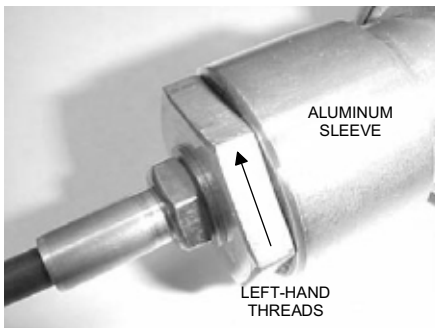
Check the cable housing and that the cable moves freely in the housing. Begin installation of the High Idler Cable by installing the cable lock nut. Run the cable lock nut all the way down the threaded portion of the cable until it bottoms out on the non-threaded portion of the cable. Install one flat washer. Install the large adjuster nut on the cable by running it all the way down on the threaded portion of the cable. Leave them loose. The cable lock nut will be tightened after the idle speed is adjusted.



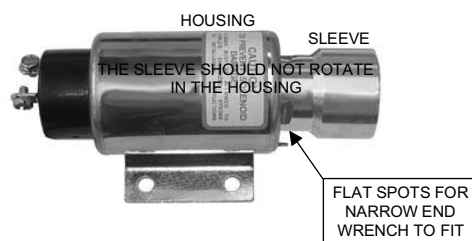
Apply one very small drop of Locktite 290 Threadlocker (or equivalent) to the threads of the stud attached to the cable. Install the solenoid plunger on the stud and tighten it. Any excess thread locking adhesive should be wiped off afterward.



To allow the large left-hand-threaded adjuster nut to turn freely during the high idle speed adjustment, put a small dab of white grease on the threads of the nut. Spread the grease around the threaded portion of the nut. Wipe off the excess grease.



Before threading the large adjuster nut into the sleeve, test-fit the plunger into the solenoid to see if the plunger moves freely inside without binding. Once it is established that the plunger to solenoid fit is acceptable, thread the cable and adjuster assembly into the solenoid.



With the left-hand threads, the adjuster nut screws into the aluminum sleeve in a counter-clockwise direction. Run the adjuster all the way down until it bottoms out in the sleeve. See idle adjustment information to properly set the high idle speed.

Refer to the applicable High Idler Instructions for attachment of the cable at the throttle body.