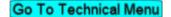
## **Table of Contents**

IH: Engine Control - Sub-02A	3
Bench Testing an Ironhead Solenoid	. 3

Last update: 2023/12/31 18:20

http://sportsterpedia.com/ Printed on 2025/10/10 05:04



# **IH: Engine Control - Sub-02A**

## Bench Testing an Ironhead Solenoid



Three tests to bench test the solenoid, text and video  $\dots$  2)

#### To test the pull-in coil:

- 1. Insert a deep socket part way into solenoid.
- 2. Connect battery -ve to the large short stud of the solenoid (normal output to starter motor).
- 3. Momentarily apply +12 volt jumper wire to the small terminal of the solenoid (normally from the starter relay).
- 4. The socket should pull in.

  Leave it pulled in to test the hold-in coil.

#### To test the hold-in coil:

- 1. Move the battery -ve jumper from the large short stud to the solenoid case.
- 2. Apply +12 volts to the small terminal and leave it connected.
- 3. Try to pull the socket out of the solenoid.

  The hold-in coil should resist your effort to pull the socket out while +12 volts is applied to the small terminal.
- 4. Remove the +12 volts from the small terminal.

  The socket should slide easily back out of the solenoid.

#### Last update: 2023/12/31 18:20

#### To load test the high-current contact plate of the solenoid:

A headlight bulb works well for this.

- 1. Jumper from batt +ve to to +ve of light.
- 2. Jumper from large long stud to -ve of light.
- 3. Jumper from batt -ve to large short stud.
- 4. Manually push in the plunger. The bulb should light up.

And here is the YouTube video: Bench Test Solenoid from IronHead Sportster

### Go To Technical Menu

1)

### photo by IronMick of the XLFORUM

https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/ironhead-sportster-motorcycle-talk-1957-1985/140741-how-to-bench-test-a-solenoid-pic-vid?t=1525907

21

#### IronMick of the XLFORUM

https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/ironhead-sportster-motorcycle-talk-1957-1985/140741-how-to-bench-test-a-solenoid-pic-vid?t=1525907

From:

http://sportsterpedia.com/ - Sportsterpedia

Permanent link:

http://sportsterpedia.com/doku.php/techtalk:ih:engctl02a

Last update: 2023/12/31 18:20

