

Saab 95 Neutral Position Switch (NPS or NSS) Replacement

Symptoms:

Intermittent car won't start typically after short trip (10 minutes or so) Rowing gear selector back and forth sometimes is a short term fix.

Reference:

I was unable to find a 95 DIY instruction so I made this one. However, there is a well documented replacement procedure on the NG900 and OG93 BB (search Neutral Safety Switch). After reading that one I believe it is easier to do on the 95 - procedure follows.

Part: Ordered through saabsite.com (\$279.98 w /shipping - Ouch!) There are also some basic instruction on the FAQ page of that site.

Tools: (That I used)

- Utility Light
- Flat Screwdriver
- Snips
- 13 mm Box Wrench
- 10 mm Ratchet Box Wrench
- 17 mm socket
- 13 mm socket
- 10 mm socket
- Drive Extensions
- 6" Adjustable wrench (not shown)



Place Car in Neutral and apply the E-Brake

Remove the cover and disconnect the battery (13 mm)

Loosen the battery mounting (13mm socket w./ extensions)

Remove Battery



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Remove the battery mounting plate 4x 10 mm



▶ Remove the connector mount. 2x 10 mm and cut off the wire ties from cable as required.

▶ Disconnect the cable. Pry the red connector so it slides to the open position. There is a locking tab which holds the cable to the connector mount. Press down and slide the connector out of the frame and disconnect from the connector.



Verify the car is in Neutral and the E-brake is on.

If it is not, it can be done manually by putting the key in the "On" position, depressing the button above the "P" This will allow the stick to be moved with the battery disconnected

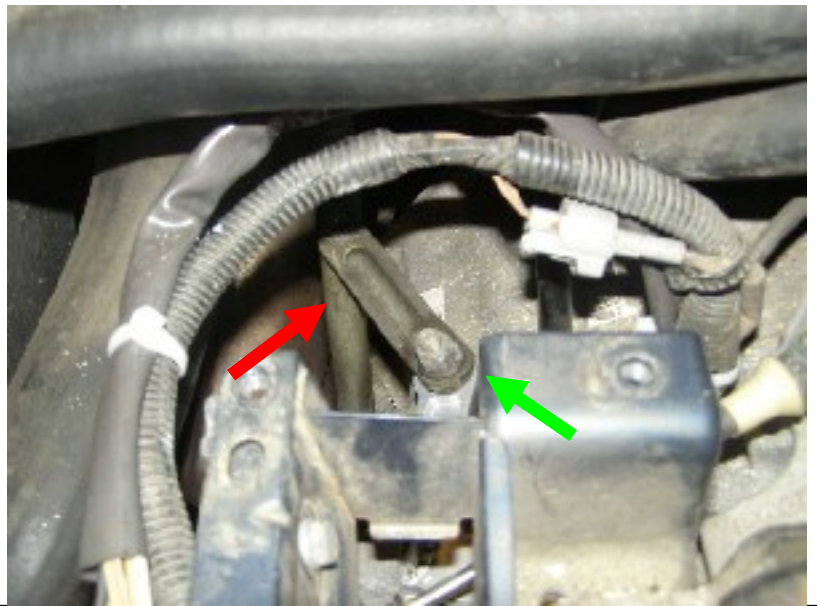
Note: The new switch will come in the neutral position.



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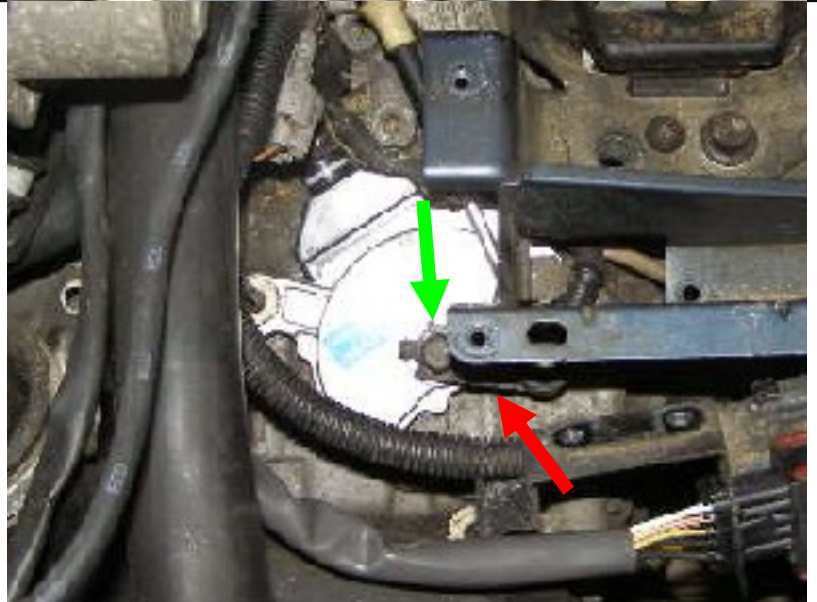
▶ Remove the 13 mm nut on the left side of the switch. Once removed lift the dipstick high enough to clear the bolt and move aside.

▶ Indicates Dip Stick Tube



▶ Remove the 13 mm nut at the center of the switch retaining the gear selector lever.

▶ Remove the lever.



▶ Remove the two remaining mounting bolts (17mm)

▶ The one on the left is a threaded post assembly and can be removed with a short socket however long one would work better.

Loosen the large selector position retention nut at the center (adjustable wrench)

Remove the switch by pulling up. It may need to be persuaded by prying it up with a screwdriver.



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Install the new switch. Loosen the large nut at the center. The switch should slide right on.

▶ Align the Shaft with the mark on the switch (with the car in neutral). Tighten the large nut to 6.5 lb-ft.

Reinstall the 17 mm mounting bolts (18 lb-ft) keeping the shaft aligned with the mark on the switch.

Reinstall the gear selector lever over the shaft. Do not install the nut.

Temporarily reconnect the battery. Verify the car starts in Neutral and Park. Verify the reverse lights only turn on in reverse. Adjust the switch position as necessary to satisfy these conditions.

Remove the temporary Battery hook up.

▶ Reinstall the 13 mm nut at the center of the switch retaining the gear selector lever. (See above) Hold the lever while tightening the nut. If the switch changes position while you're tightening it just move it back to align with the scribe on the switch when you are done.

Reinstall the dipstick tube and mounting nut.

Complete installation in reverse.

