

907SMRT Installation Instructions - 2019 Sprinter (907)

Installation and programming instructions for 907SMRT high idle control module for 2019 Sprinter (907)

Written By: Noah Thatcher

INTRODUCTION

There are two modules which need to be installed:

- OBD programmer module using T-harness connected at OBDII diagnostic port. This module can be removed after programming
- CAN interface connected on passenger side using T-harness. Power and ground for this module can be connected to fuse box using provide Mercedes connector and ground bolt near door opening using provided ring terminal

Programming procedure:

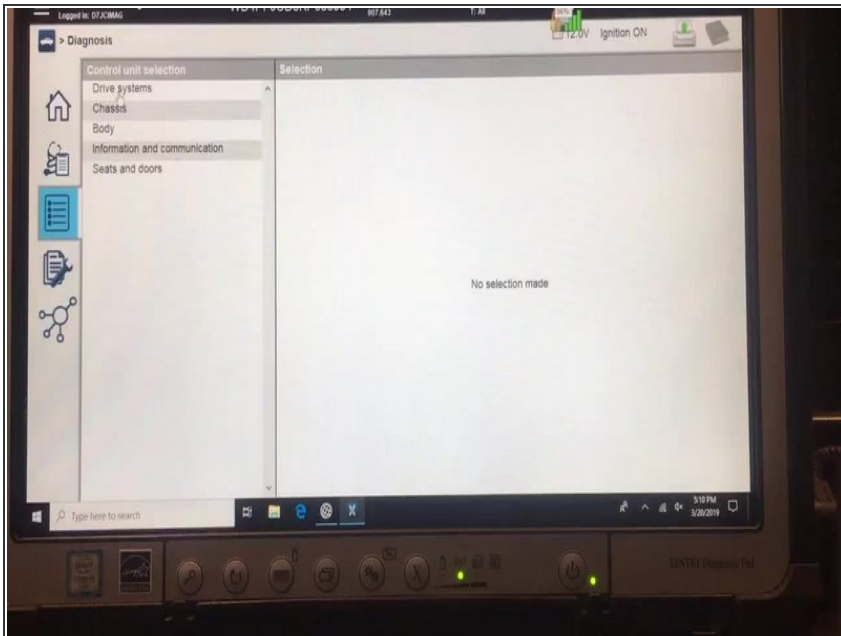
The programming procedures must be done using Xentry

Step 1 — OBD T-harness connection



- Using provided OBD T-harness, plug programmer module in line at OBD plug
- Once module is connected, confirm that the LED is solid. If LED is flashing, the programmer module has already been locked to another VIN

Step 2 — Xentry programming procedure



- Follow steps in video for programming procedures
- ⓘ After running procedure you may have a message saying that it failed- this is normal. Programming should still have taken

Step 3 — Remove OBD T-harness and module



- Once programming procedure is run, the OBD T-harness and module can be removed
- The OBD module and T-harness should stay with the vehicle in case programming ever needs to be performed again

Step 4 — Remove panel at end of knee bolster



- Using pry tool, remove panel at end of knee bolster

Step 5 — Remove screws and panel at end of footwell



- Remove two screws and panel and end of footwell

Step 6 — Remove access panel in foot well



- Turn plastic screws in counter clockwise
- Remove panel
- Pull back floor and remove fuse access panel

Step 7 — Remove sill panel screw under floor



- Pull back plastic floor
- Remove one screw holding sill panel in place

Step 8 — Remove sill panel tabs



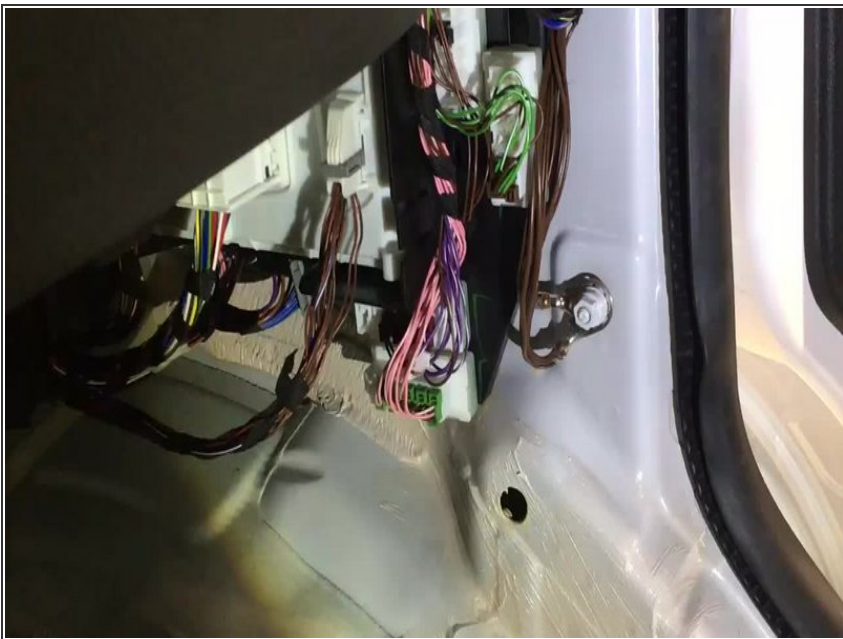
- Remove 2 plastic panel tabs

Step 9 — Remove and set aside sill panel



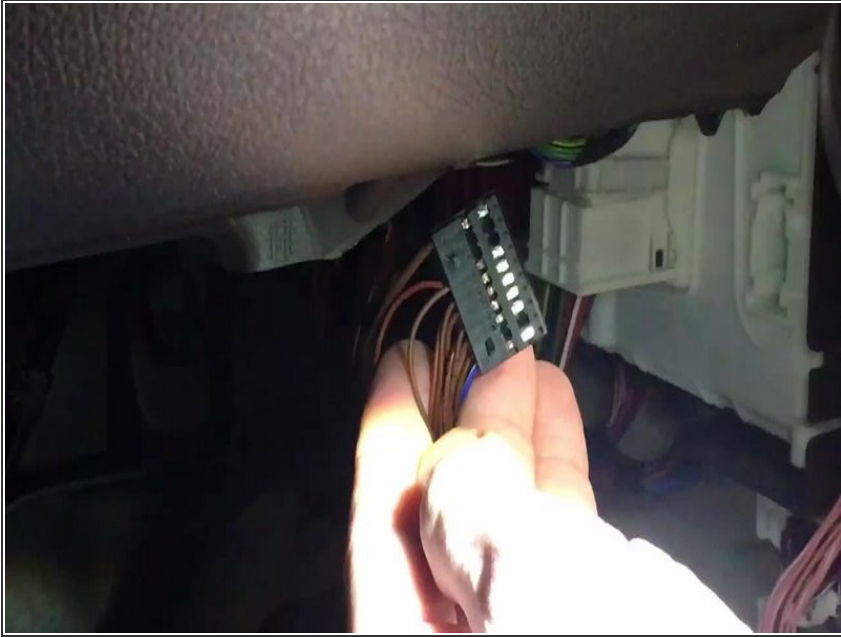
- Pull back floor and remove sill panel

Step 10 — Remove CAN B plug from SAM module



- Pull out CAN B plug from SAM module
- Remove white shroud from plug

Step 11 — Un-pin CAN wires



- Using pick tool, carefully remove brown (pin 7) and brown/red (pin 17) wires from CAN B plug

Step 12 — Pin provided CAN wires into CAN B plug



- Pin provided brown wire into spot where factory brown wire was removed (pin 7)
 - Pin provided brown/red wire into spot where factory brown/red wire was removed (pin 17)
- ⚠ Be sure to pin CAN high/CAN low into spots where factory CAN high (pin 17)/CAN low (pin 7) were removed

Step 13 — Remove adapter from provided 2 pin black CAN plug



- Remove adapter from end of provided CAN plug. Factory CAN wires will be pinned into this plug

Step 14 — Pin factory CAN wires to adapter



- Insert **factory brown/red** CAN wire that was removed from CAN B plug into **pin 1** on adapter
- Insert **factory brown** CAN wire that was removed from CAN B plug into **pin 2** on adapter

Step 15 — Connect adapter to harness



- Plug adapter with factory wires into 2 pin CAN plug on provided harness
- ⓘ Make sure that factory brown and brown/red wires align with brown and brown/red wires on harness

Step 16 — Replace factory shroud over CAN B plug



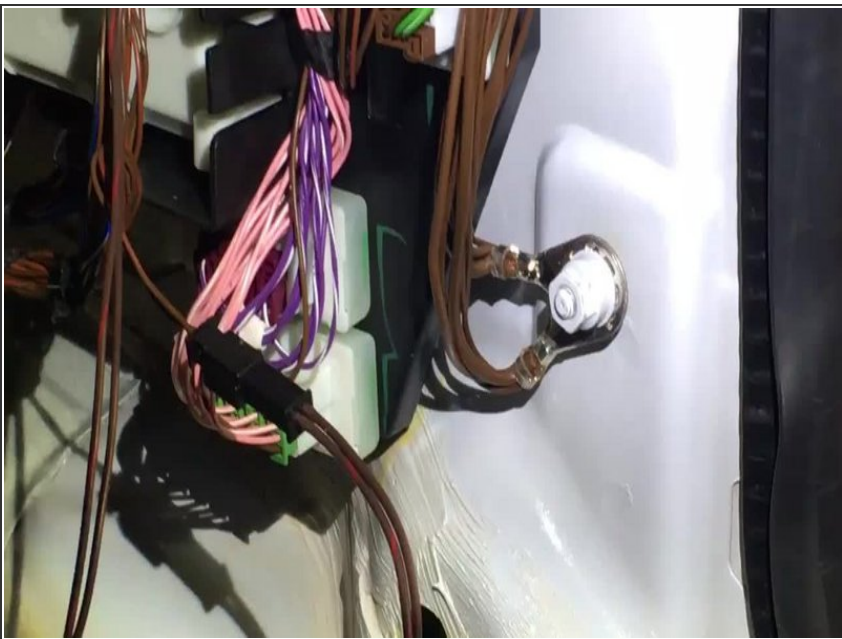
- Slide factory shroud over CAN B plug so that it can be plugged into the SAM module

Step 17 — Plug CAN B plug into front SAM



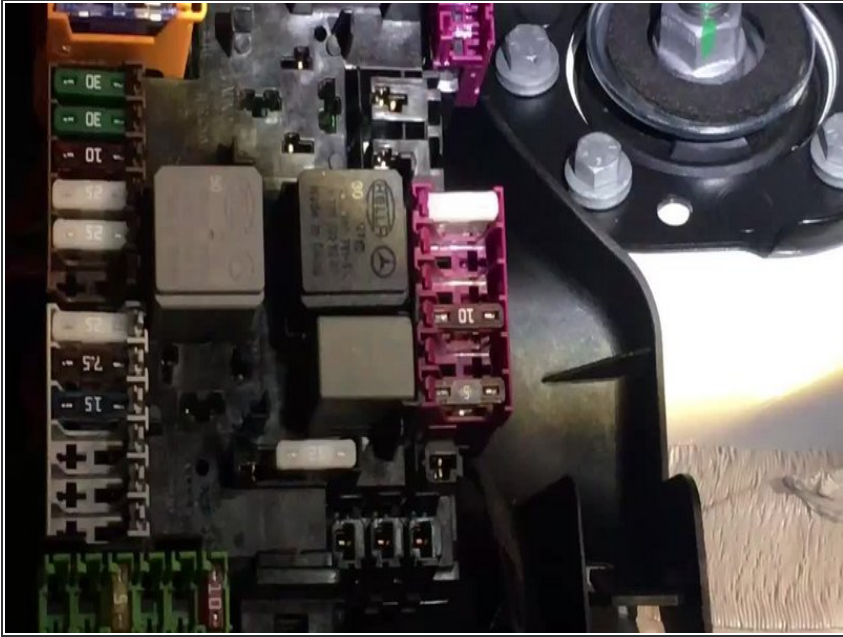
- Plug factory CAN B plug back into front SAM module

Step 18 — Ground connection



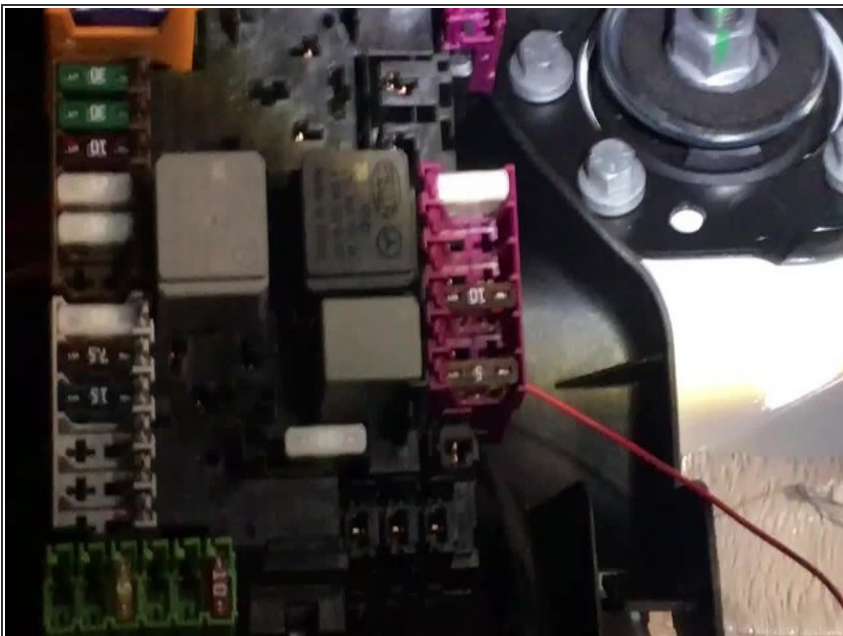
- Remove bolt near door opening
- Connect ring terminal from provided black wire on post
- Replace bolt and tighten

Step 19 — Power wire connection



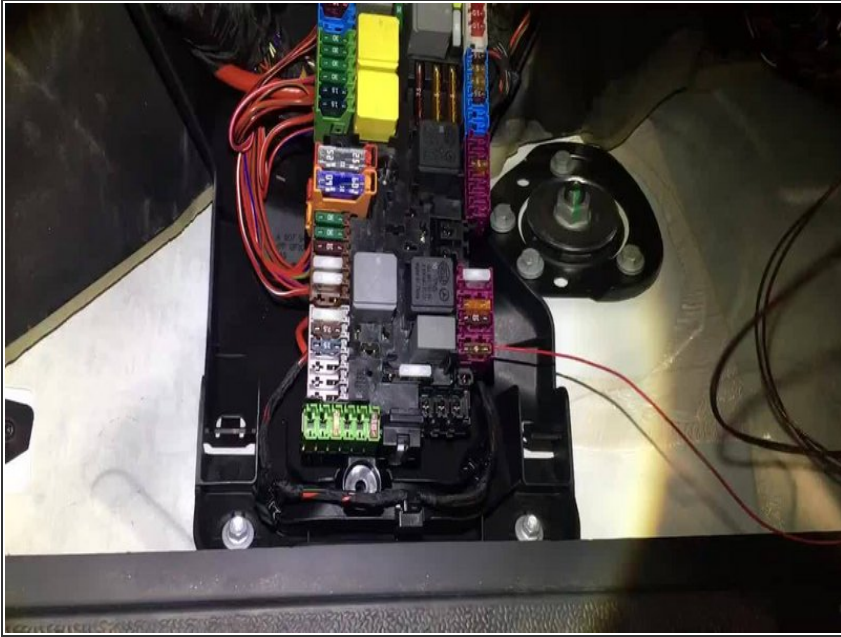
- Pin provided fuse terminal on red wire into open spot shown in video

Step 20 — Fuse connection



- Connect fuse to fuse terminal

Step 21 — Connect module



- Connect harness to interface module

Step 22 — Confirm power



- Looking through end cap of interface make sure that red LED turns on with ignition

Step 23 — Connect negative trigger



- The provided purple wire is the negative input for high idle activation
- Connect the purple wire to whichever trigger is being used to activate high idle
- Parking brake must be engaged for high idle to work

Step 24 — Test operation



- Start engine and engage parking brake
- Ground purple wire and confirm high idle activation

Step 25 — Mount module and re-assemble kick area



-  Securely mount module away from any moving parts or heat sources