



## Retrofitting High Idle Control On VB Sprinter

### Description

This retrofit contains instructions for installation of a preset high idle (XFM) or adjustable high idle (NXF). The adjustable high idle has two options for raising and lowering the engine rpm. If the vehicle is equipped with cruise control (NHM), the cruise wand can be used. If not equipped, a second switch must be installed. Both high idle options require the parametric (programmable) special module PSM (XCF) which can be retrofitted if the vehicle is equipped with PSM prep (XCN).

**Vehicle requirements:** One of the following sales codes must be present on the vehicle or this retrofit can not be performed

XCF Parametric Special Module (PSM)

XCN Parametric Special Module Prep(PSM Prep)

### Parts

#### Adding Parametric Special Module XCF

1x 68013383AA Parametric Special Module

#### Adding Preset Idle Control XFM

1x 68010492AA Switch, On / Off  
1x 05120633AA Connector, Switch  
5x 05103882AA Terminal, Switch  
3x 05103892AA Terminal, Module  
1x Wire, 18AWG BK/RD  
1x Wire, 18AWG BR/YL  
1x Wire, 18AWG BR/WT  
1x Wire, 18AWG GY/DB  
1x Wire, 18AWG BR

#### Adding Adjustable Idle Control NXF

1x 68010492AA Switch, On / Off  
1x 68010496AA Switch, speed control  
2x 05120633AA Connector, Switch  
8x 05103882AA Terminal, Switch



3x	05103892AA	Terminal, Module
1x		Wire, 18AWG BK/GY
1x		Wire, 18AWG BK/RD
1x		Wire, 18AWG BR/YL
1x		Wire, 18AWG BR/WT
2x		Wire, 18AWG GY/DB
2x		Wire, 18AWG BR

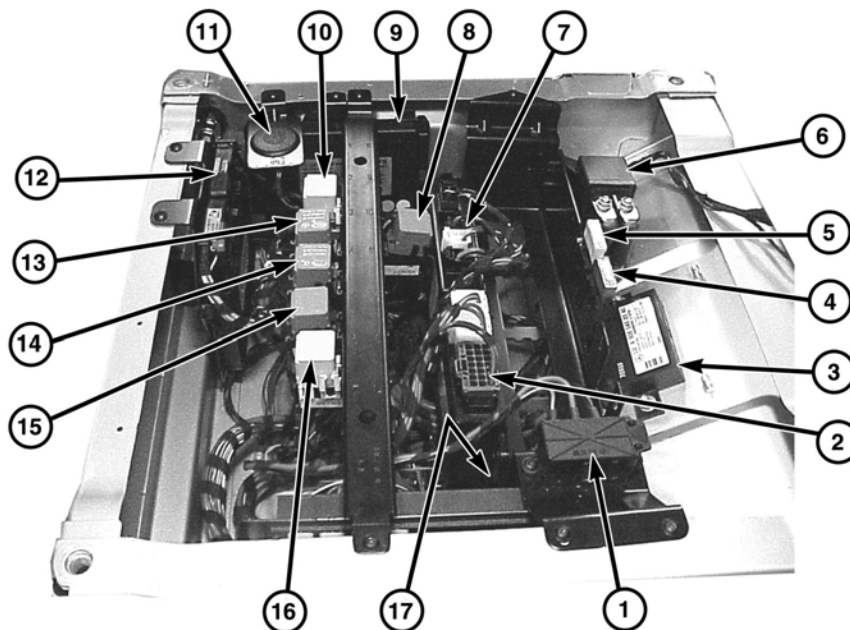
**Procedure**

**Note:** Read all instructions before beginning as the wiring steps under the driver seat can be performed at one time.

- 1 Disconnect and isolate the negative battery terminal.
- 2 Remove the driver's seat

**Note:** Steps 3 and 4 are only required when a PSM is being added with sales code XCN (PSM Prep).

- 3 If the Parametric Special Module (XCF) is not equipped, install the module in the seat base. (Location 2, Picture below) The loose grey and white connectors apply to the module.
- 4 Remove A-Pillar paneling in right footwell. Connect CAN connector for PSM to the CAN B splice Block. Note: Wires and connector will be tied up to the harness.



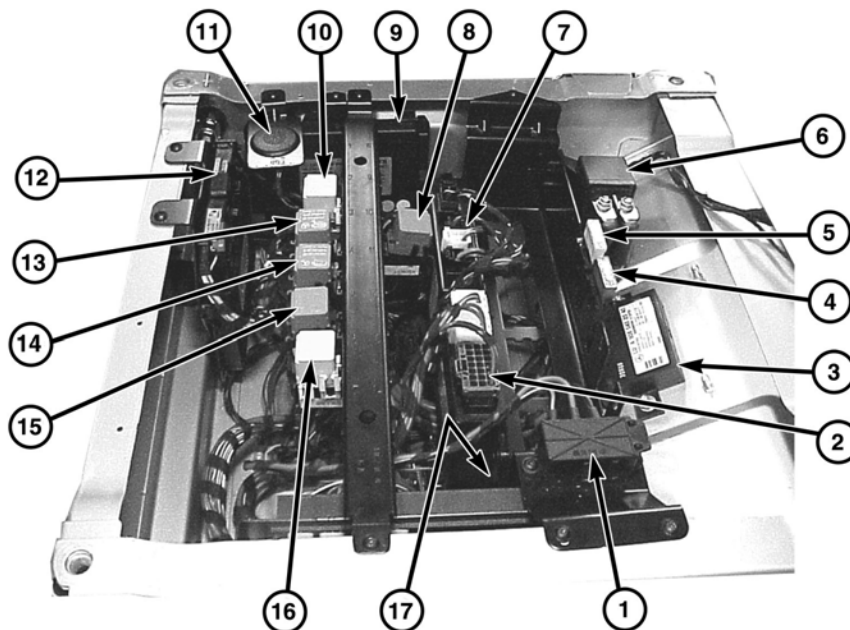


- 5 Remove the instrument panel around the steering wheel as described in TechConnect under Service Info / 23 Body / Instrument Panel / Bezel-Cluster / Removal
- 6 Remove a blank bezel from left side of steering column. This location will be for the on/off switch. See picture below for reference.
- 7 If retrofitting adjustable high idle (NXF) remove the blank bezel to the right of the on / off switch. This location will be for the Variable Switch. **Note: If vehicle is equipped with cruise control, this switch is not necessary.**



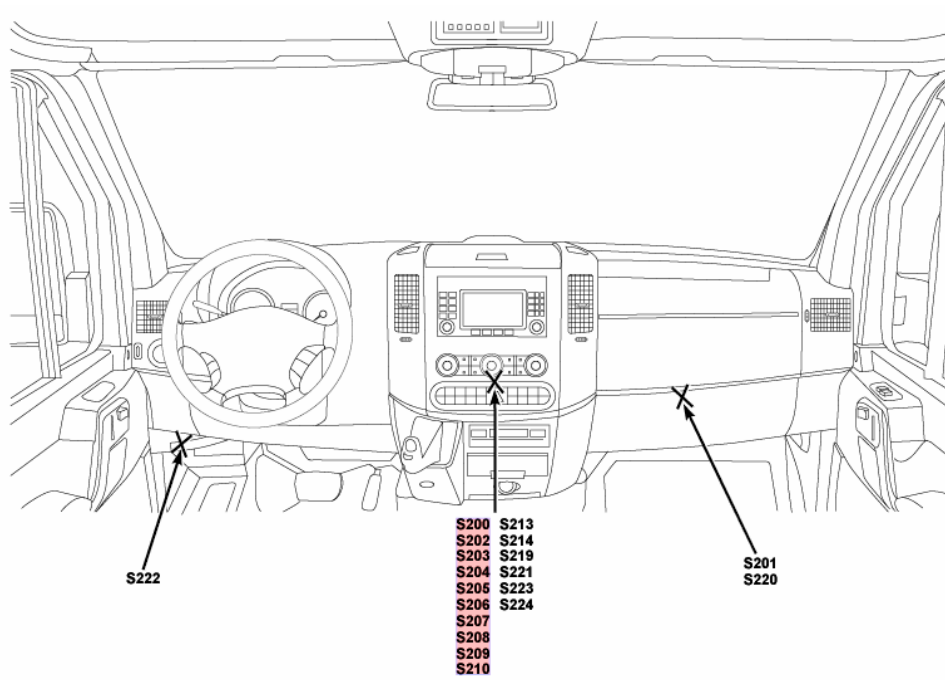
On/off switch and Variable speed switch

- 8 Identify ignition power terminal of the body builder electrical connector (black/yellow wire, location 1) Use a ring terminal and attach an in-line fuse (7.5a Fuse) to that terminal and route a BK/RD wire to the on/off switch. See picture below for reference.





- 9 Identify splice S200 using the following drawing, splice in a new GY/DB wire and route it to the on/off switch. If retrofitting an adjustable high idle switch, splice in and route one additional GY/DB wire to the adjustable high idle switch.



- 10 Identify the ground stud under the driver's seat. Install a BR wire using a ring terminal and route the wire to the on/off switch. If retrofitting an adjustable idle control switch, install and route one additional BR wire to the adjustable idle control switch.
- 11 Identify connector 2, pin 20 of the parametric special module. (White 21 pin connector) Install a BR/WT wire using terminal 05103892AA and route it to the on/off switch
- 12 Identify connector 1, pin 13 of the parametric special module, (Grey 21 pin connector) install a BR/YL wire using terminal 05103892AA and route it to the on/off switch.
- 13 If retrofitting an adjustable idle control switch, identify connector 1, pin 10 of the parametric special module, install a BK/GY wire using terminal 05103892AA and route it to the adjustable idle control switch.
- 14 Cut all wires at the switches leaving extra length for installation, attach terminals 05103882AA and insert them into the switch connectors according to the wiring diagrams at the end of this document
- 15 Plug the connectors into the switches, and the parametric special module.
- 16 Connect the Negative battery terminal



- 17 Add appropriate sales code to vehicle. Login to DealerCONNECT. Select *Service*. Select *Vehicle Options*. Enter the *VIN Number*. Select appropriate sales code.(XFM Idle Control – Preset, or NXF Adjustable Idle Control) Select *Add*. Select *Save*

**Note: If the parametric special module was added as part of this installation, the sales code XCF Parametric Special Module must also be added.**

**Note: Step 18 is only required when the PSM was added to the vehicle.**

- 18 Perform variant coding of Gateway/Ignition Switch (EISCGW). Connect StarScan or StarMobile, Ignition on, Select ECU View, Select *EISCGW*. Select *Misc Functions*. Select *Automatic Variant Coding*. Select *Start*. Follow Prompts.
- 19 Perform variant coding of PSM. Connect StarScan or StarMobile, Ignition on, Select ECU View, Select *PSM*. Select *Misc Functions*. Select *Automatic variant coding* Select *Start*. Follow Prompts.
- 20 Perform variant coding of ECM. Select ECU View, Select *ECM*. Select *Misc Functions*. Select *Automatic Variant Coding*. Select *Start*. Follow Prompts.
- 21 Set High Idle Allowed Speeds. Select ECU View, Select *ECM*. Select *More Options*, Select *System Tests*, Select *Set High Idle Allowed Speeds*. Choose a low rpm value and a high rpm value.
- 22 Verify operation of high idle and check for fault codes.
- 23 Install the switches and re-install the instrument panel. Re-install the Driver seat.

**Note: In order for the high idle to operate, the parking brake must be applied, the engine must be at base idle, and the transmission must be in Park.**

