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# SS 1033121 Adding a Fan Override Switch (Legacy Cascadia)

## Adding a Fan Override Switch (Legacy Cascadia)

### **Applicable Vehicles:**

All legacy Cascadia

### **Issue:**

Customer desires to add a fan override switch.

Existing sales code:

276-001    AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED

Desired sales code:

276-003    AUTOMATIC CONTROL W/DASH SWITCH W/O IND LIGHT, NON ENGINE MTD

### **Solution:**

Install the following switch into a spare location in the MSF or one of the MSF slave modules:

A06-53782-016    SW-MSF,MUX,ENG FA    1.000 EA

Next, set the MSF switch ID65 parameter to the following:

0 447 00 23    PARM-MSF,ENG FAN    1.000 EA

Note: This parameter only has to do with fault reporting - tells MSF this switch is supposed to be installed. It has nothing to do with functionality of the switch.

Next, it will be necessary to set parameters on the engine to enable a multiplexed fan override switch.

### **For Detroit Engines:**

Set the J1939 Fan Request Enable under PGR019 = CM1 from SA1 and SA2 (see below):

(This allows the engine to receive engine fan requests from both the HVAC and the MSF fan override switch)

| PGR019 Automatic Fan Activation |                                 |
|---------------------------------|---------------------------------|
| AC Fan Speed Active Pct         | 100                             |
| AC Fan Vehicle Speed Enable     | disable                         |
| AC Fan Vehicle Speed Thresh     | 19.88                           |
| Air Condition Enable Auto Fan   | disable                         |
| Cool Temp at 0 Pct Fan          | 356                             |
| Cool Temp at 100 Pct Fan        | 392                             |
| Eng Brake Enable Auto Fan       | disable                         |
| Eng Brake Fan Min Cool Temp     | -58                             |
| Eng Brake Fan Min Vspeed        | 19.88                           |
| Engine Brk Fan On Delay Time    | 2                               |
| Fan AC Hold Time                | 180                             |
| Fan Activation Min Cool Temp    | -40                             |
| Fan Power on Fan Override       | 100                             |
| Fan Speed Perc for Eng Ret      | 100                             |
| Fan Vehicle Speed Enable        | enable                          |
| Fan Vehicle Speed Threshold     | 0.00                            |
| Hold Time Fan                   | 0                               |
| J1939 Fan Request Enable        | CM1 from SA1 (see 001/008) only |
| PTO Enable Auto Fan Activation  | disable                         |
| PTO Fan On Delay Time           | 2                               |
| Ramp Fan                        | 25                              |
| speed PTO active percent        | 100                             |
| Trans Retard Fan Min Cool Temp  | -58                             |
| Trans Retard Fan Min Oil Temp   | -40                             |

Change to CM1 from SA1 and SA2

SA1=25 (HVAC);  
SA2=49 (MSF)

### For Cummins Engines:

In INSITE under the SAE J1939 Multiplexing folder, set the Fan Control Switch = Enabled, then select 49-Cab Controller.

(This allows the engine to receive engine fan requests from the MSF fan override switch)

Labels :

Cascadia

Electronics | Controls | Configuration | Communication | and Diagnostics

Freightliner

Power | Electrical | Harnesses | and Wiring

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5 Kudos

Comments



William\_Loehr

06-08-2017 10:20 AM

Perfect, thanks Joe I had someone asking me about that yesterday. I told him it was easy, this just makes it easy for anyone to perform the work.



William\_Loehr

06-16-2017 10:33 AM

Did your Drumroll package change? I've found the only way to change a parameter is to open parameters first then add and upload to the server in the program vehicle tab first. Then the parameters are not greyed out and can be changed. If you add and then connect to the server for the update and download doesn't the chassis icon have a green check or a yellow box? If yellow box no chassis info was uploaded to you.



Talbert\_Simonia

01-05-2018 12:14 AM

Thanks Joe for the information. This help out today.



David\_Lacroix

04-04-2018 12:39 PM

I've noticed that if the unit has a shutdown override switch installed, it will use ID65 and the fan will use ID63 (not 65) in the MSF

Mushegh\_Hayrape

09-21-2018 02:06 PM



if truck is DDEC10 take out CPC connector #2 . pin 13 is empty. if you short it to ground engine fan will be on after 5 sec. put a switch between that pin and ground pin of same connector. no parameter change needed. for more info check out A&I manual of DDEC10