



MAINTENANCE INFORMATION

MI21-13A

| | | | |
|-----------|---|-----------|---------|
| DATE : | December 2021 | SECTION : | 22 HVAC |
| SUBJECT : | HVAC PERFORMANCE - AUTOMATED SUPERHEAT TEST FROM THE DRIVER SEAT | | |

Revision: A

December 9, 2021

IMPORTANT NOTICE

This procedure is recommended by PrevoSt to evaluate your vehicle's performance. Note that no reimbursement will be awarded for carrying out this procedure.

DESCRIPTION

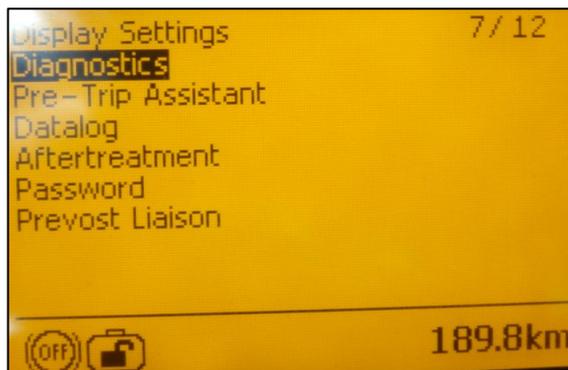
An automated test is available to check the **big** HVAC superheat from the driver seat. This test is controlled by Multiplex, eliminating interventions and the need to take measures on the vehicle.

IMPORTANT NOTE: Make sure that you have completed all normal checks on the HVAC system before performing this overheat test.

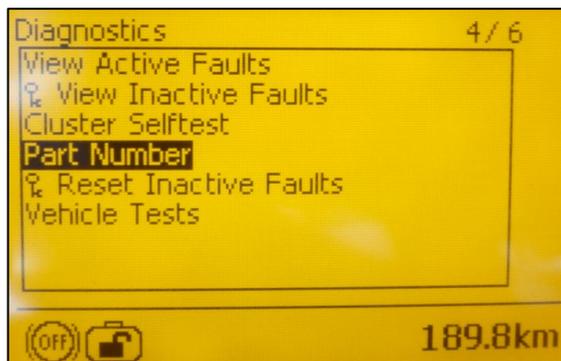
This test is available on all models from 2018. Multiplex program version update must be as shown below or later.

| | |
|-----------------------------------|--------------|
| X3 Series Motorhomes: | 06100122 P20 |
| H3 Series coaches and Motorhomes: | 06100123 P23 |
| X3 Series coaches: | 06100124 P22 |

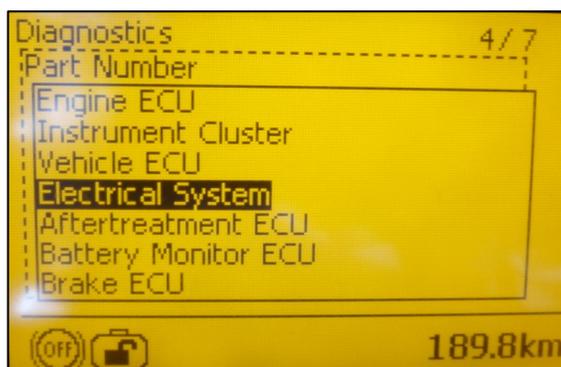
1. Check the vehicle MUX program version using the Driver Information Display (DID).
2. Select *Diagnostics* menu.



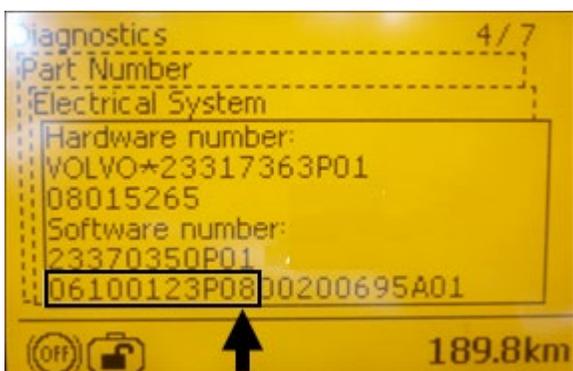
3. Select *Part Number*.



4. Select *Electrical System*.



5. The program version (and the actual revision number PXX will show. In this example, the program version is 06100123 and the actual revision P08.



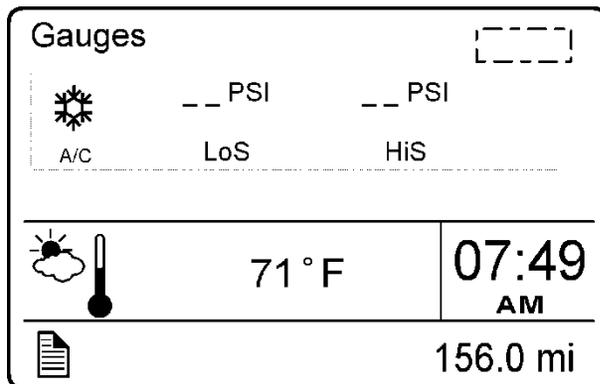
PROCEDURE



Park vehicle safely, apply parking brake, stop the engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

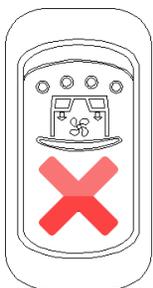
Lockout & Tag out (LOTO) must be performed during set-up, maintenance or repair activities. Refer to your local procedure for detailed information regarding the control of hazardous energy.

1. Start the engine, set fast idle and wait for the engine to warm up at 170 °F.
2. Select the **A/C Compressor Pressure** gauge on the Driver Information Display (DID).

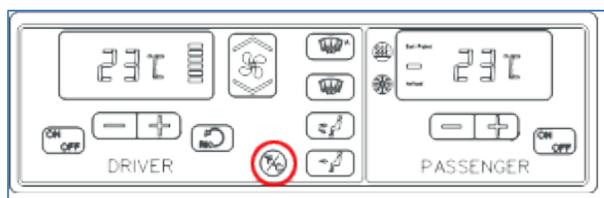


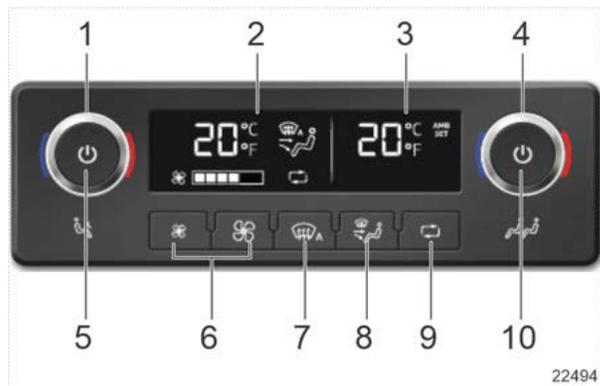
A/C COMPRESSOR PRESSURE GAUGE

3. Turn ON both sections (driver & passenger) on the HVAC control unit. Do not turn on the overhead compartment cooling.



4. Set temperature units to Celsius on HVAC control unit.





Temperature Unit Selection °F / °C

To switch the temperature units, press simultaneously both fan speed buttons (6) for 3 seconds.

5. Quickly press *Recirculate* button (REC on previous unit, button (9) on the new unit) 6 times on the HVAC control unit. A red LED on the HVAC control unit should turn on. "TEST" should blink in the DID status bar.
6. At this point, the **A/C Compressor Pressure** gauge should indicate LoS: 0 PSI and HiS: 0 PSI. The test will run until the passenger's area ambient temperature reaches 27 °C.
7. When the passenger's area ambient temperature reaches 27 °C, the defroster fan stops. The red LED turns off and a green LED turns on to indicate full A/C is engaged.
8. The temperature will drop to 23 °C and the test will record the different values on the DID during this temperature drop.
9. Check the **A/C Compressor Pressure** LoS value. LoS shows the current superheat value in 1/10 in °C. HiS shows a timer from 0 to 180 seconds.

Displayed example: LoS: 36 PSI HiS: 82 PSI

means the current superheat is 3.6 °C and the time-lapse is 82 seconds

10. When the timer reaches 180 seconds, you will hear a buzzer indicating the test is completed. At this moment, LoS shows the average value of all readings which occurred during the 180-second period.

The appropriate value of SUPERHEAT value shown on the DID should be **between 4 °C and 8.5 °C**

11. To stop the test, press once on *Recirculate* button.

Access all our Service Bulletins on <http://techpub.prevostcar.com/en/>
Or scan the QR-Code with your smart phone

Are you a vehicle owner?
E-mail us at technicalpublications_prev@volvo.com and type "ADD" in the subject to
receive warranty bulletins applicable to your vehicle(s) by e-mail.

