

PREVOST

Instruction Sheet

IS-19923A

HVAC MODULE REPLACEMENT

(2000-2007 X-SERIES & 2004-2005 H-SERIES FULL HVAC)

Rev A 2020-01-06: Addition of Wiring Schematics at the end of this document

MATERIAL

Kit #IS19923 includes the following parts:

Part No.	Description	Qty
23499009-FAC	MCM PROGRAMMED FULL HVAC	1
22722846	I/O-EA MODULE	1
870008	DASH,HVAC CONTROL MODULE-MUX- FULL AIR	1
0600035	HVAC INTERFACE HARNESS WITH I/O-EA	1
0600036	OUTSIDE TEMP SENSOR HARNESS	1
0600037	DUAL TO SINGLE MOTOR WIRING ADAPTER	1
0600038	SINGLE MOTOR DRIVE HARNESS	1
0600039	DUAL MOTOR DRIVE HARNESS	1
871353	BLOWER DRIVE ASS, PWM FR DEFROSTER	1
563335	OUTSIDE TEMPERATURE SENSOR DELPHI	1
563332	MINI RELAY, 24V WITH RESISTOR	2
504637	CABLE TIE NYLON STD BLACK	15
5001374	SCR CAP HEX SS M5X10 FT	3
5001449	NUT HEX SS M5-.8	3
5001480	NUT HEX NYRT SS 8-32	1
IS-19923	INSTRUCTION SHEET (EN)	1
FI-19923	INSTRUCTION SHEET (FR)	1

Other parts that may be required:

Part No.	Description	Qty
684685	GLUE SIMSON ISR 70-03 BLACK, CARTRIDGE	1

NOTE

Material can be obtained through regular channels.

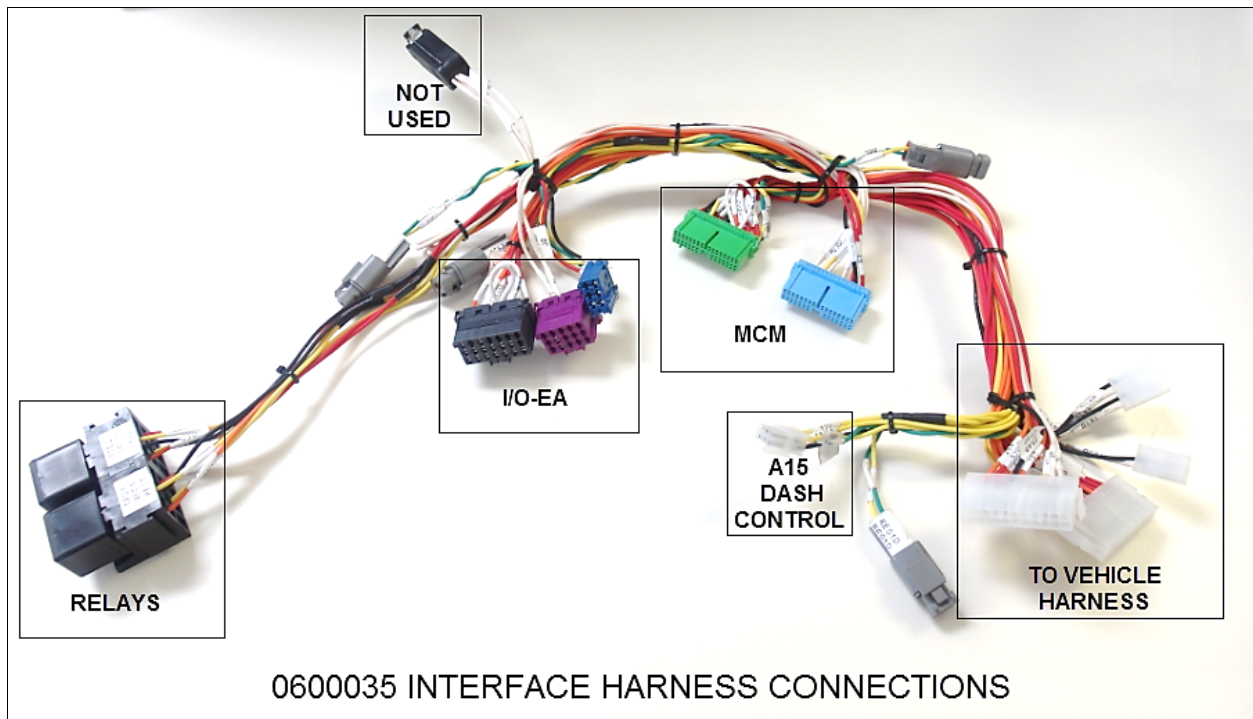
PROCEDURE



DANGER

Do not attempt to repair or service this vehicle without having sufficient training, the correct service literature and the proper tools. Failure to follow this could make the vehicle unsafe and lead to serious personal injury or death.

Lock out & Tag out (LOTO) must be performed during setup, maintenance or repair activities. Park vehicle safely, apply parking brake, stop engine, trip the main circuit breakers as required & refer to your local procedure for detailed information regarding the control of hazardous energy.



1. Remove the dashboard cover (5 Phillips head screws)

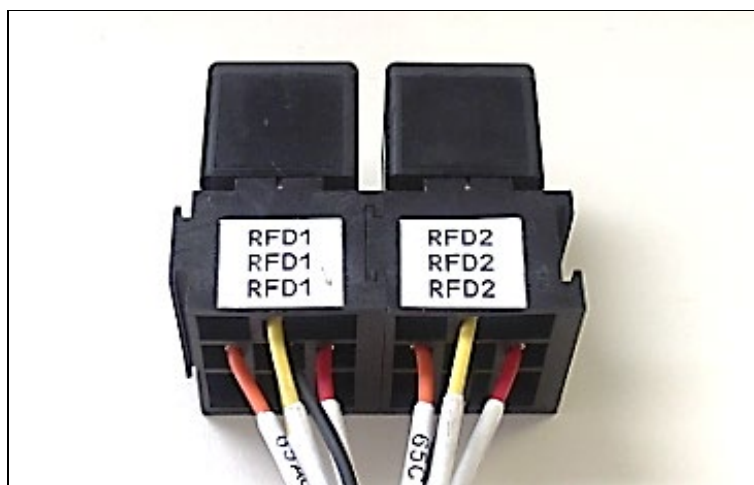


2. Remove the HVAC dashboard control module.

- Unscrew the nut holding the control module to the dashboard (back of the control module).
- Pull the control module out of the dash and disconnect the module (4 connectors).



3. Connect the two **563332** relays to the HVAC interface harness RFD1 & RFD2 connectors.



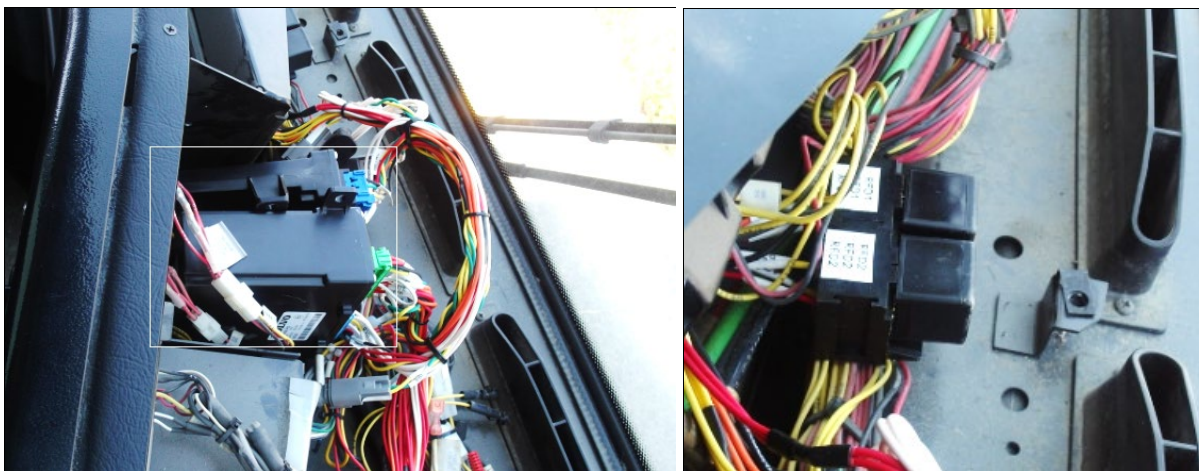
4. Connect the **22722846** I/O-EA module to the harness (J1-black, J2-purple & J3-dark blue connectors).



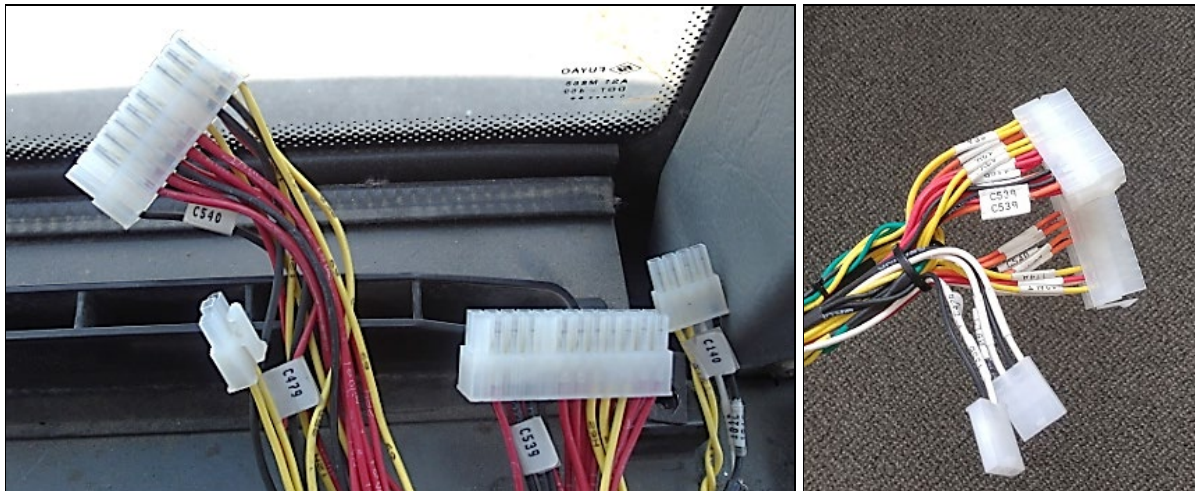
5. Also connect the **23499009-FAC** MCM module (JA-green & JB blue).



6. Lay the interface harness behind the dash and secure the modules previously connected to the under dash support (use supplied cable ties); modules must fit securely under the cover. Also secure the relay assembly.



7. Connect the vehicle harness to the interface harness (4 connectors previously disconnected from the dashboard control module). Connectors are numbered on both harnesses (C140, C479, C539 & C540).

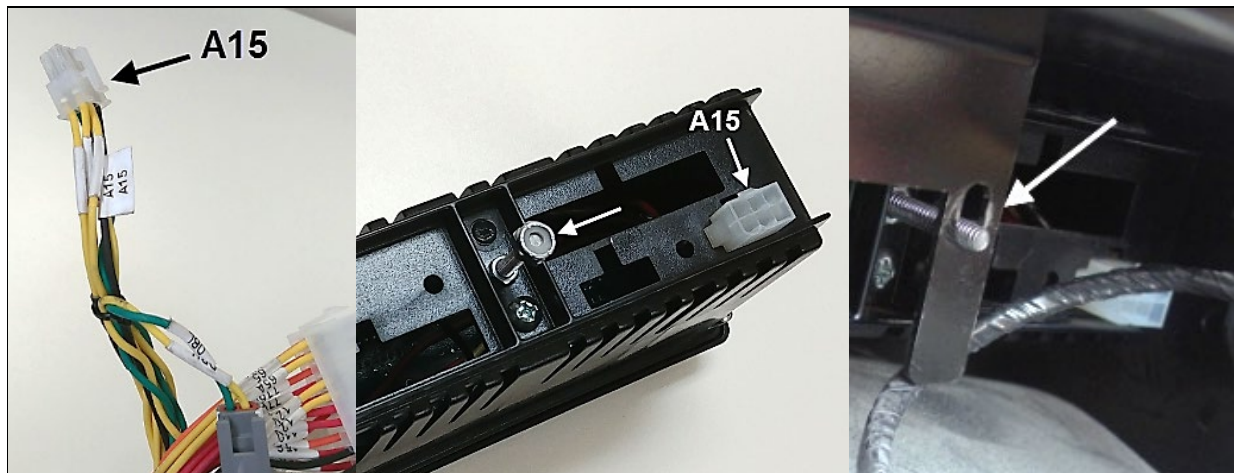


NOTE

The interface harness DB9 connector is used for diagnosis purposes. This connector is not connected under normal use (secure with cable ties near the relays).



8. Install the new supplied **870008** dash control module in the dash.
 - Pass the interface harness A15 connector through the control module dash opening.
 - Connect the A15 connector at the back of the new control module.
 - Insert the new module in the opening (make sure the screw at the back of the module is inserted in the dash bracket).
 - Secure the module to the bracket using the supplied **5001480** nut.



9. Remove both step well service panels (X-Series shown).

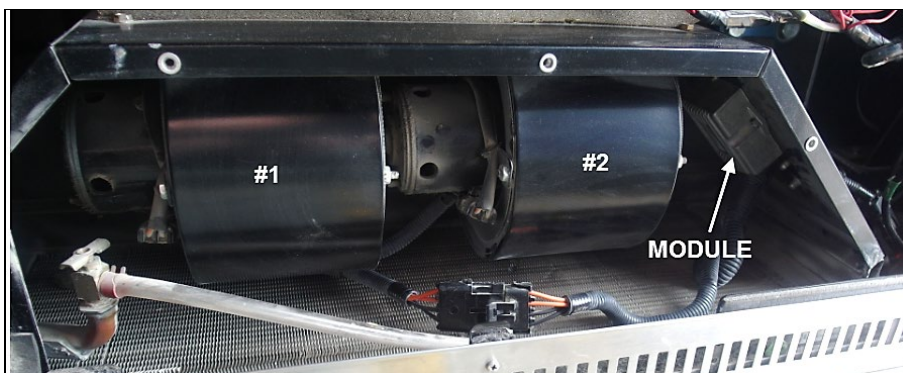


10. Remove the blower box cover to access the motor(s) and blower drive module (MCC motor drive assembly).



NOTE

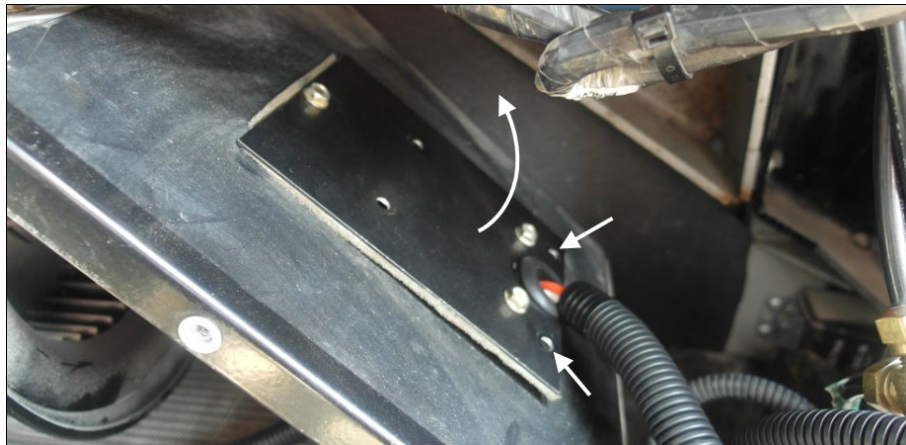
Blower may be equipped with a single or dual motor(S) setup (dual shown).



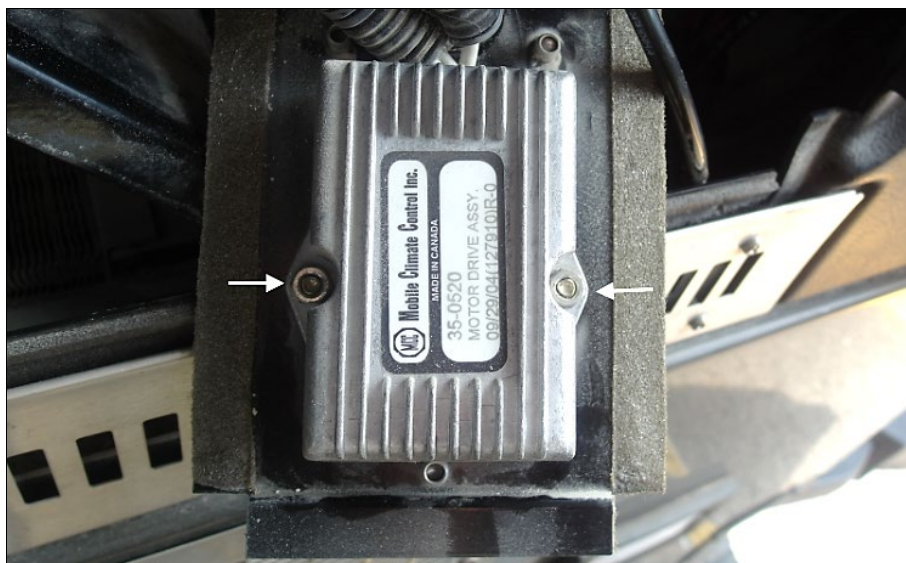
11. Disconnect the blower drive module from the motor connector.



12. Remove the blower drive mounting plate from the blower box (remove two lower screws then lift).



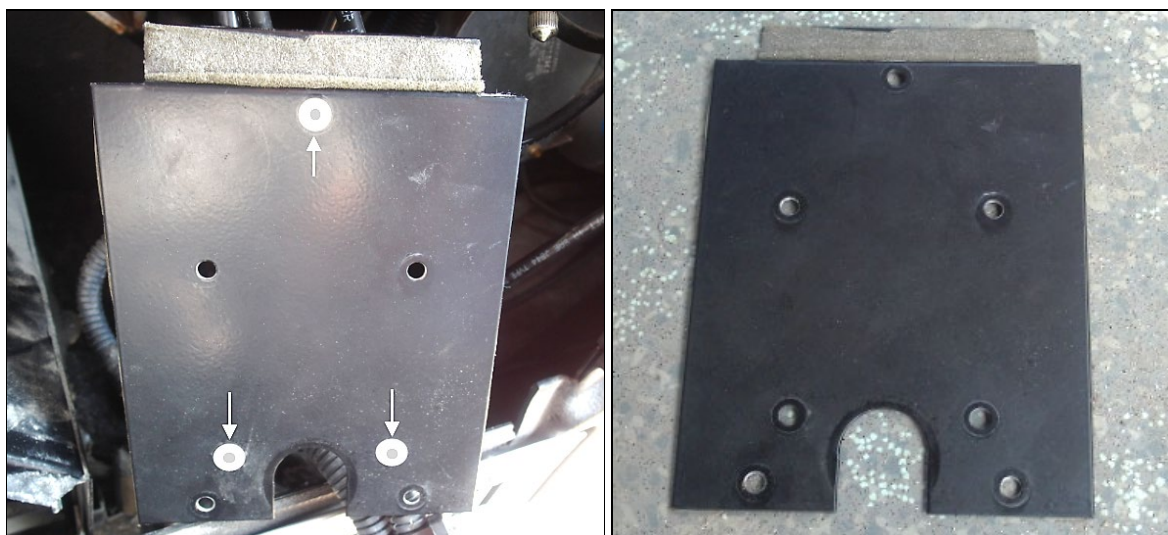
13. Remove the blower drive module from the mounting plate.



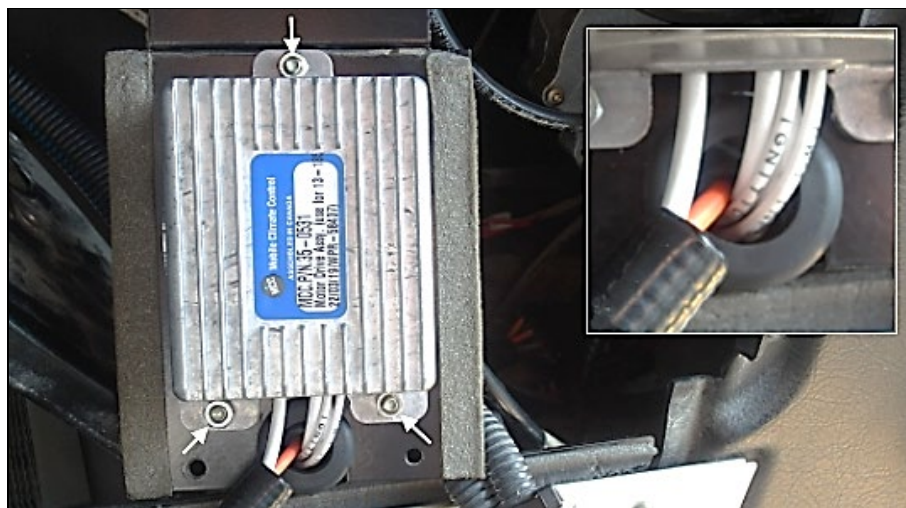
14. Disconnect the remaining three connectors and discard the blower drive module.



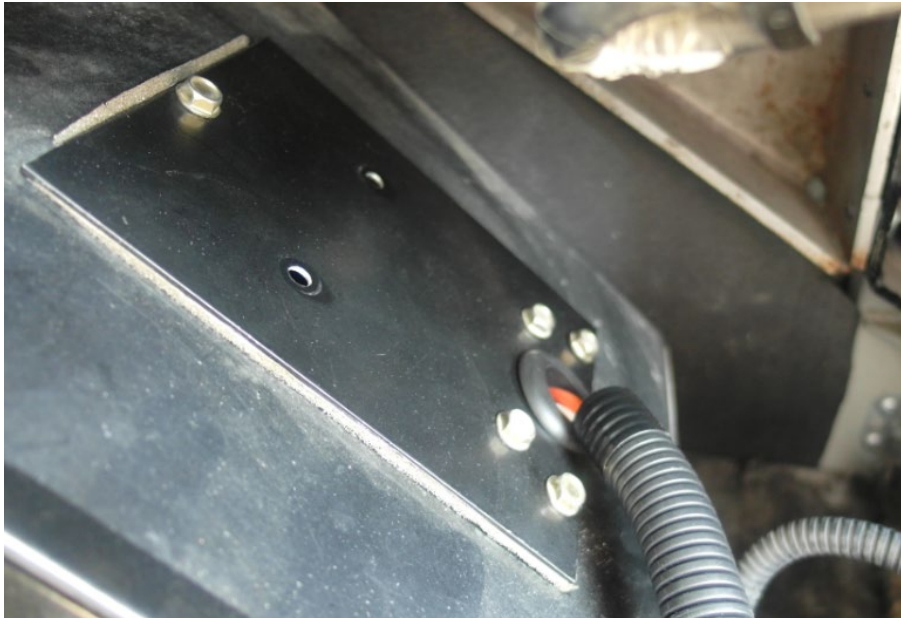
15. Remove (drill) the three rivets from the mounting plate.



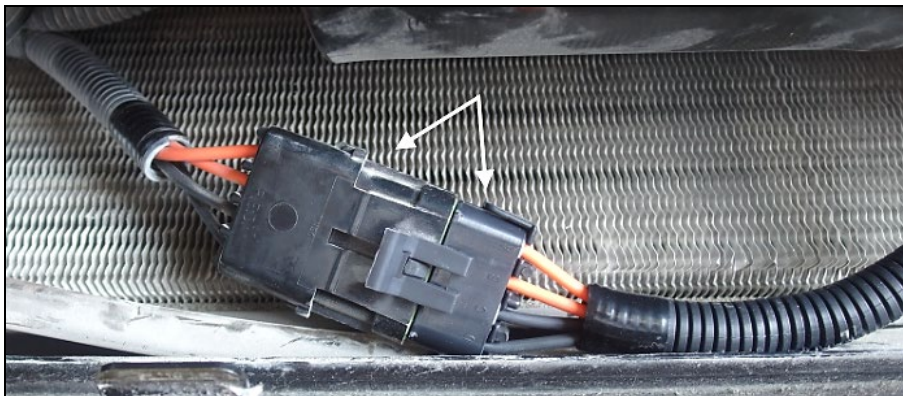
16. Mount the new blower drive module **871353** to the plate using supplied **5001374** screws and **5001449** nuts (make sure the grommet fits properly in the plate U-shaped slot).



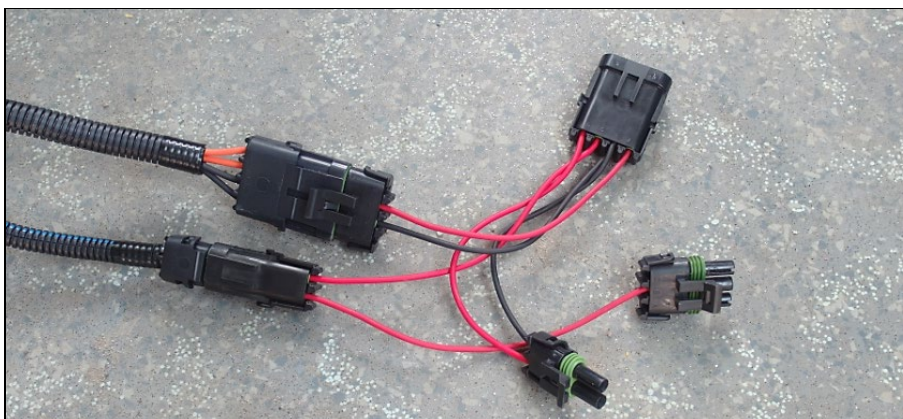
17. Reinstall the blower drive module and mounting plate.



18. Connect the drive module to the motor(s). For *single motor blower*, dual to single motor wiring adapter **0600037** is required.



19. Depending on the blower configuration, connect the module other ends to the single **0600038** or dual **0600039** motor drive harness (dual shown).



20. Connect the drive harness to the connectors previously disconnected (dual motors shown) from the old blower drive module.



21. Remove the outside air temperature sensor from the vehicle (X-Series shown, H-Series may differ slightly).

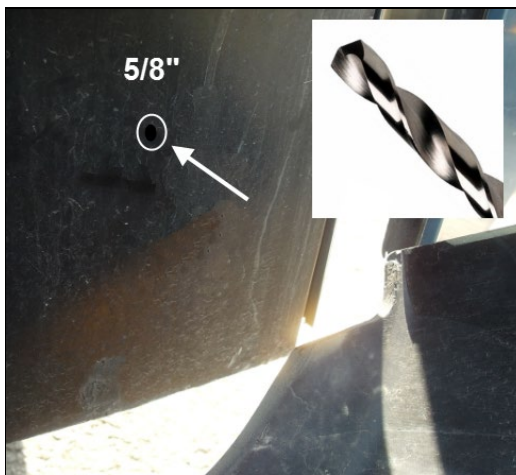
- Open the vehicle front compartment and flip open the front bumper.
- Locate the outside air temperature sensor and harness.
- Disconnect the harness and cut the cable ties securing it to the chassis.
- Remove (cut with a sharp blade) the adhesive holding the sensor to the vehicle structure.
- Remove (pull out) the sensor.

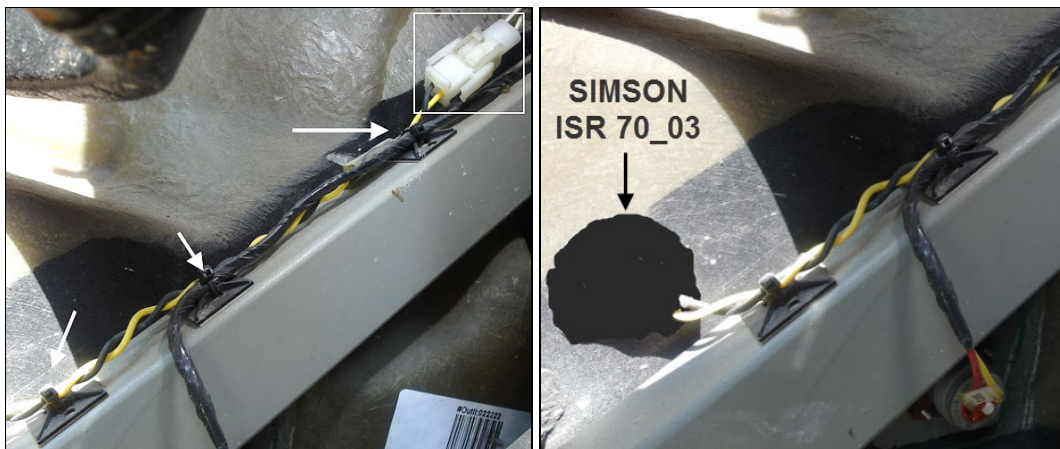




22. Install the new supplied **563335** outside air temperature sensor.

- Re-drill the sensor opening to 5/8" (+/-16mm).
- Click (insert from the inside) the new outside air temperature sensor in the drilled opening.
- Connect the supplied **0600036** harness to the outside air temperature sensor.
- Connect the sensor harness to the vehicle harness and secure to the structure using some of the supplied cable ties (follow original harness routing).
- Inside the compartment, seal the sensor to the vehicle structure using black Simson ISR 70-03.

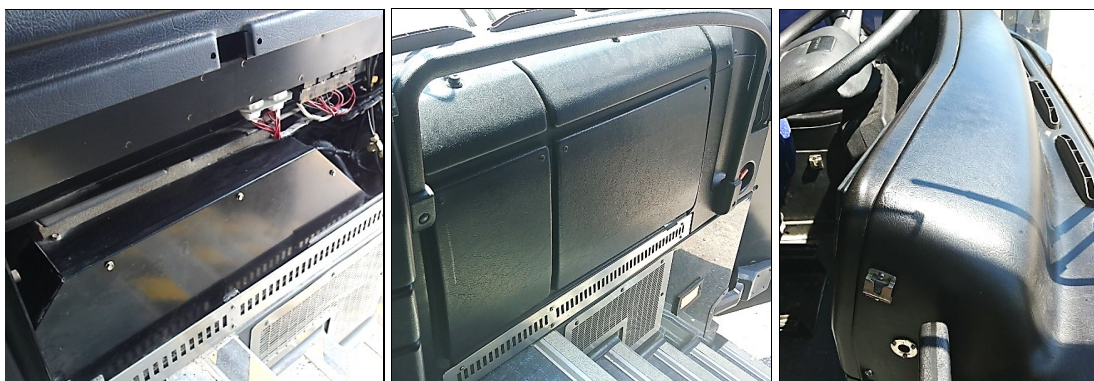




23. Reconnect the vehicle power supply and start the vehicle. Check that all HVAC functions are working properly.

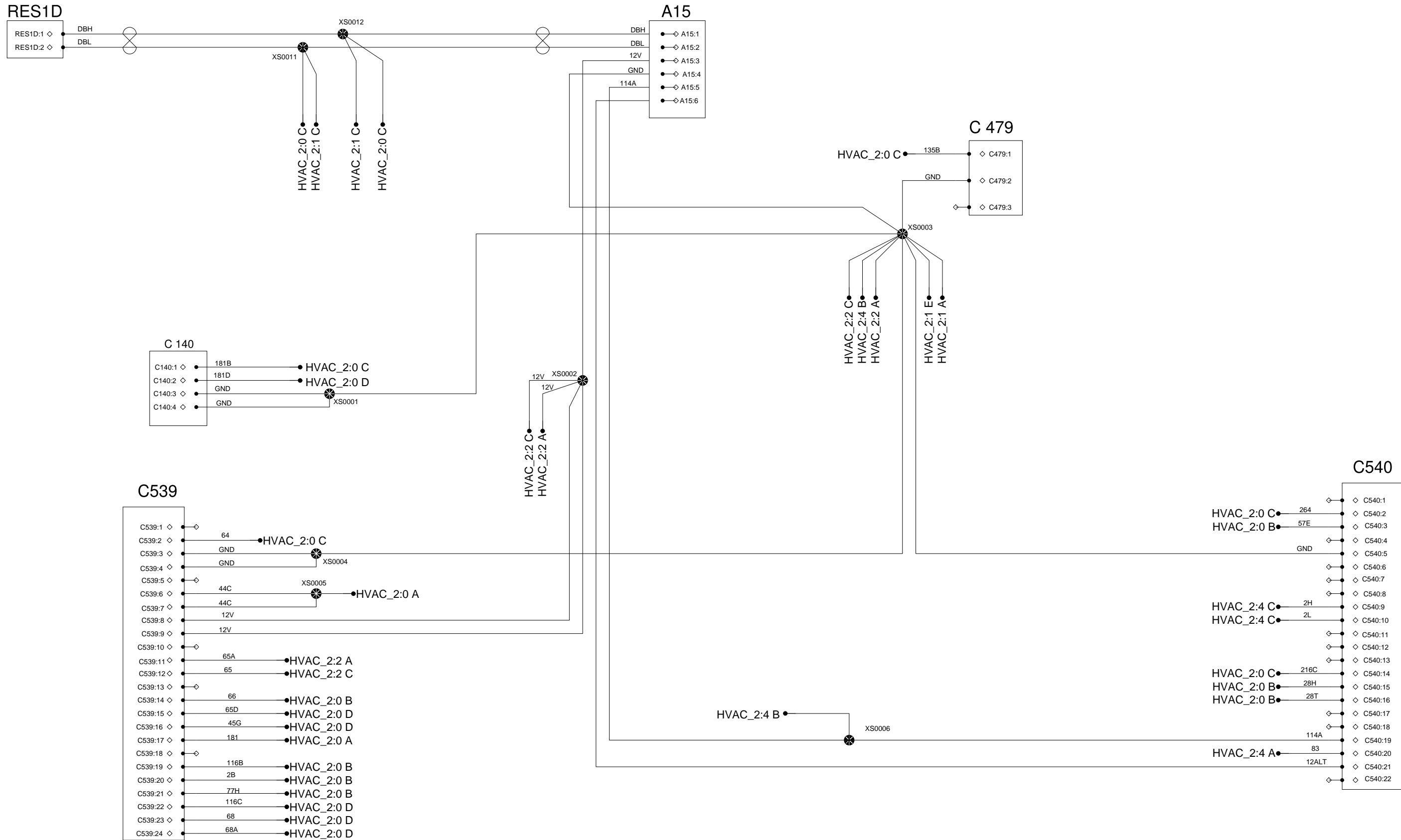


24. Reinstall the blower box cover, the two service panels and the dashboard cover.

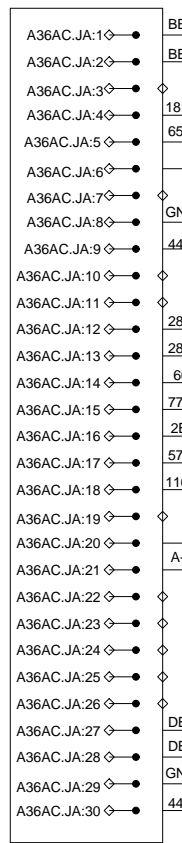


PARTS / WASTE DISPOSAL

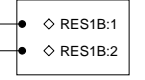
Discard waste according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)



A36AC_JA



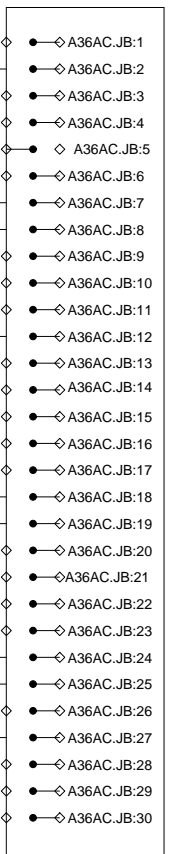
RES1B



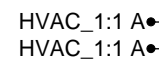
RFD1



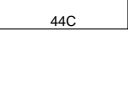
A36AC_JB



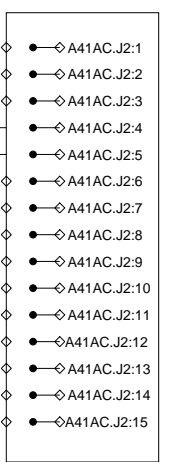
RES2D



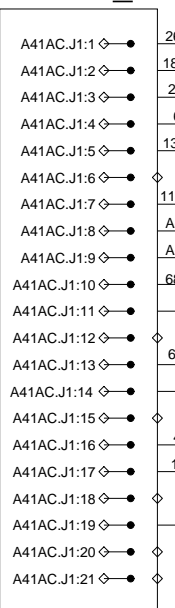
RFD2



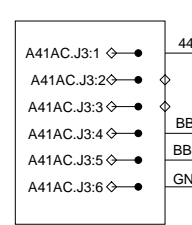
A41AC_J2



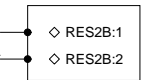
A41AC_J1



A41AC_J3



RES2B



DB9 PIN

