Warranty Bulletin No: 94-06

DATE: April 1994 SECTION: 06

SUBJECT: CIRCULATING PUMP FOR AUXILIARY HEATING SYSTEM (ESPAR OR WEBASTO)

Models	VINs	
"XL" 45' converted vehicle equipped central HVAC unit combined with an auxiliary heating system	2P9M33499P10017222P9M33496P1001757 2P9M33492P1001738 2P9M33495P1001765 2P9M33495P1001748 2P9M33495R1001770	2P9M33498R1001780 2P9M33492R1001791 2P9M33490R1001806 2P9M33497R1001821
"XL" 45' converted vehicle equipped driver's HVAC unit combined with an auxiliary heating system	2P9M33494P10017422P9M33491P1001763 2P9M33492P1001755 2P9M33497P1001766 2P9M33498P10017612P9M33495R1001784	2P9M33491R1001796 2P9M3349XR1001800 2P9M33491R1001815

DESCRIPTION

The circulating pump must operate each time the auxiliary heating system is activated. On the above-mentioned vehicles, the pump does not operate when the main disconnect switches are set to the "OFF" position. Actuating the auxiliary heating system while main switches are turned off will release the overheat protection of the auxiliary system. In order to prevent this situation from occurring, we recommend you perform the following modification.

Note: For a better understanding, this bulletin is divided in 2 parts.

PART A (See pages 2 and 3)

Modification to perform on vehicles equipped with driver's HVAC unit only.

PART B (See pages 4 to 7)

Modification to perform on vehicles equipped with central HVAC unit.

PART A (Vehicles with driver's HVAC unit only)

MATERIAL

Part No	Description	Qty
56-0082	Ring terminal #10 (#16-14 AWG)	1
56-1700	Spade terminal #8 (#16-14 AWG)	1
06-3214	Shrinkable tubing 6" long	1
50-4015	Cable tie 3/16" x 14 1/2"	4
56-0668	Red wire #14 (AWG)	2' (60 cm)

Note: Material can be obtained through regular channels.

PROCEDURE

Warning: Park vehicle safely, apply parking brake, stop engine and set battery master switches to the "OFF" position prior to working on the vehicle.

- 1. Open front electric compartment door then locate the circuit breaker CB-73 (15 amps). Refer to figure 1.
- 2. Remove cable ties retaining wiring harness routed at right of circuit breaker CB-73 then disconnect wire #24E from CB-73.
- **3.** Cut wire #24E near its terminal, discard terminal then insulate wire end using shrinkable tubing #06-3214.
- **4.** Take a new red wire #56-0668, strip one extremity, crimp a spade terminal #56-1700 then fix it to circuit breaker CB-73.

Warning: Take care when performing the following step as post #112 is under tension even with master switches turned off.

- **5.** Route new red wire up to post #112, cut excess wire, strip extremity, crimp a ring terminal #56-0082 then connect it to post #112.
- **6.** Fasten wire to harness using cable ties #50-4015.
- 7. Close front electric compartment door.

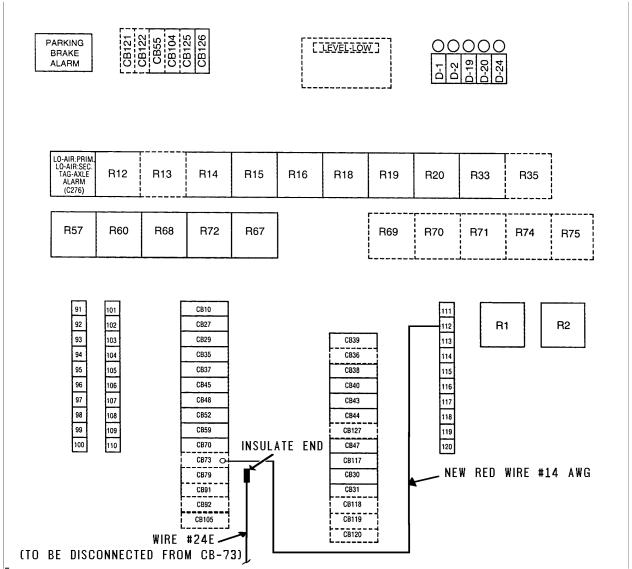


Fig.1 - Wiring modification (front electric compartment) 06038 WARRANTY

This modification is covered by the manufacturer's normal warranty. We will reimburse you the parts and half an hour (0.5) of labor upon receipt of a completed A.F.A. form on which you must specify as per Warranty Bulletin 94-06 Part "A".

Expiration date: April 1995

PART B (Vehicles with central HVAC unit)

MATERIAL

Part No	Description	Qty
56-0082	Ring terminal #10 (#16-14 AWG)	1
56-1700	Spade terminal #8 (#16-14 AWG)	1
06-3214	Shrinkable tubing 6" long	1
50-4015	Cable tie 3/16" x 14 1/2"	10
06-3643	Jumper wire	1
56-1539	Female connector (#16-14 AWG)	1
06-3849	Diode assembly	1
56-0668	Red wire #14 (AWG)	2' (60 cm)

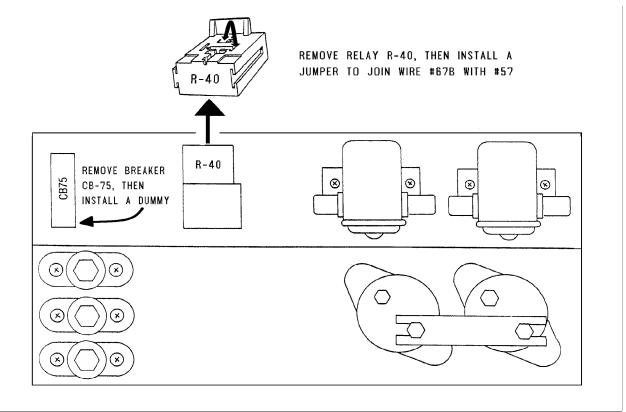
Note: Material can be obtained through regular channels.

PROCEDURE

Warning: Park vehicle safely, apply parking brake, stop engine and set battery master switches to the "OFF" position prior to working on the vehicle.

- **1.** Open last baggage compartment door on the R.H. side of vehicle then unlock condenser compartment door by pulling on knob mounted in the upper right corner. Fully open condenser compartment door.
- 2. Locate the A/C junction box fixed on the rear wall, unscrew the 6 screws retaining cover then remove cover.
- **3.** Locate relay R-40 at the inside of A/C junction box then pull relay off its base (do not discard relay as we will reuse it at step 6). Refer to figure 2.
- **4.** Take jumper wire #06-3643, insert its terminals in relay R-40 base in order to connect wires #67B and #57 together.
- **5.** Disconnect wires #57C and #90 from circuit breaker CB-75 (15A), then remove breaker (do not discard breaker as we will reuse it at step 8).

Note: Do not reinstall A/C junction box cover at this stage.



F.i Gper2 front **Medic Extra arroo**nt **door the iday the iday the iday** previously removed from A/C junction box 39 (previous step 3) in relay R-35 base presently unoccupied. Refer to figure 3.

Note: Refer to sticker affixed on inner side of door to identify the position of relay R-35 base.

- **7.** Locate the dummy taking the place of circuit breaker CB-73, then disconnect wires #57C and #24E from dummy.
- **8.** Remove dummy (do not discard it as we will reuse it at step 19) then install at its place the circuit breaker (15A) previously removed from A/C junction box (previous step 5). Connect wire #57C.
- **9.** Remove cable ties retaining wiring harness routed at right of circuit breaker installed at previous step, cut wire #24E near its terminal, discard terminal then insulate wire end using shrinkable tubing #06-3214.
- **10.** Take a new red wire #56-0668, strip one extremity, crimp a spade terminal #56-1700 then fix it to circuit breaker (15A) installed at previous step 8.

Warning: Take care when performing the following step as post #112 is under tension even with master switches turned off.

11. Route new red wire up to post #112, cut excess wire, strip extremity, crimp a ring terminal #56-0082

then connect it to post #112.

12. Fasten wire to harness using cable ties #50-4015.

13. Disconnect wires #67A and #67B from post #51, remove cable ties then route wire #67B up to post

#109.

14. Connect wire #67B to post #109.

15. Cut wire #67A near its terminal, discard terminal, strip wire extremity then crimp a female connector

#56-1539.

16. Take the diode assembly #06-3849, connect its male connector to wire #67A then connect the other

end (provided with a ring terminal) to post #51.

17. Fasten wiring harnesses using cable ties #50-4015.

18. Close front electric compartment door.

19. Working now in the condenser compartment, install the dummy previously removed from front electric compartment (previous step 8), where circuit breaker CB-75 was previously mounted in A/C junction box.

Refer to figure 2. Connect wires #57C and #90 to dummy.

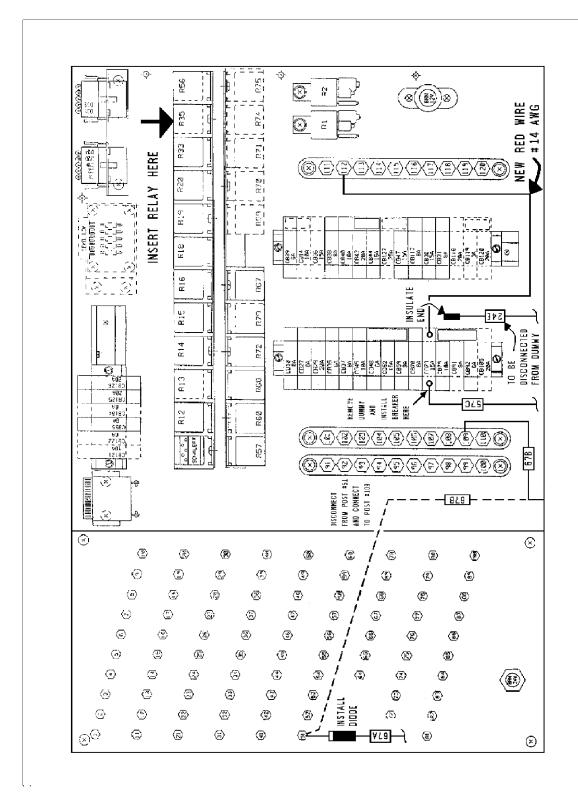
20. Reinstall A/C junction box cover then close condenser and last baggage compartment doors.

WARRANTY

This modification is covered by the manufacturer's normal warranty. We will reimburse you the parts and one and a half (1.5) hour of labor upon receipt of a completed A.F.A. form on which you must specify as

per Warranty Bulletin 94-06 Part "B".

Expiration date: April 1995



wiring modification (front electric compartment)