	<b>ESPAR RELOCATION SERVICE BULLETIN</b>	<b>UP 074 REV 2 2011-05-03</b>
		Page 1 of 1

AMBULANCE TYPE: MX151D 2009 (Unit 62800 to Unit 62899)

## ISSUE

This bulletin is to inform owners of Demers Ambulances that a relocation of the Espar heating unit is required. The installation of the Espar heating unit needs to be relocated in order to meet BCAS requirement.

## ACTION

Relocation of the Espar heating unit is required at the next scheduled 'A' service safety inspection.

Perform modification as per the attached documentation.

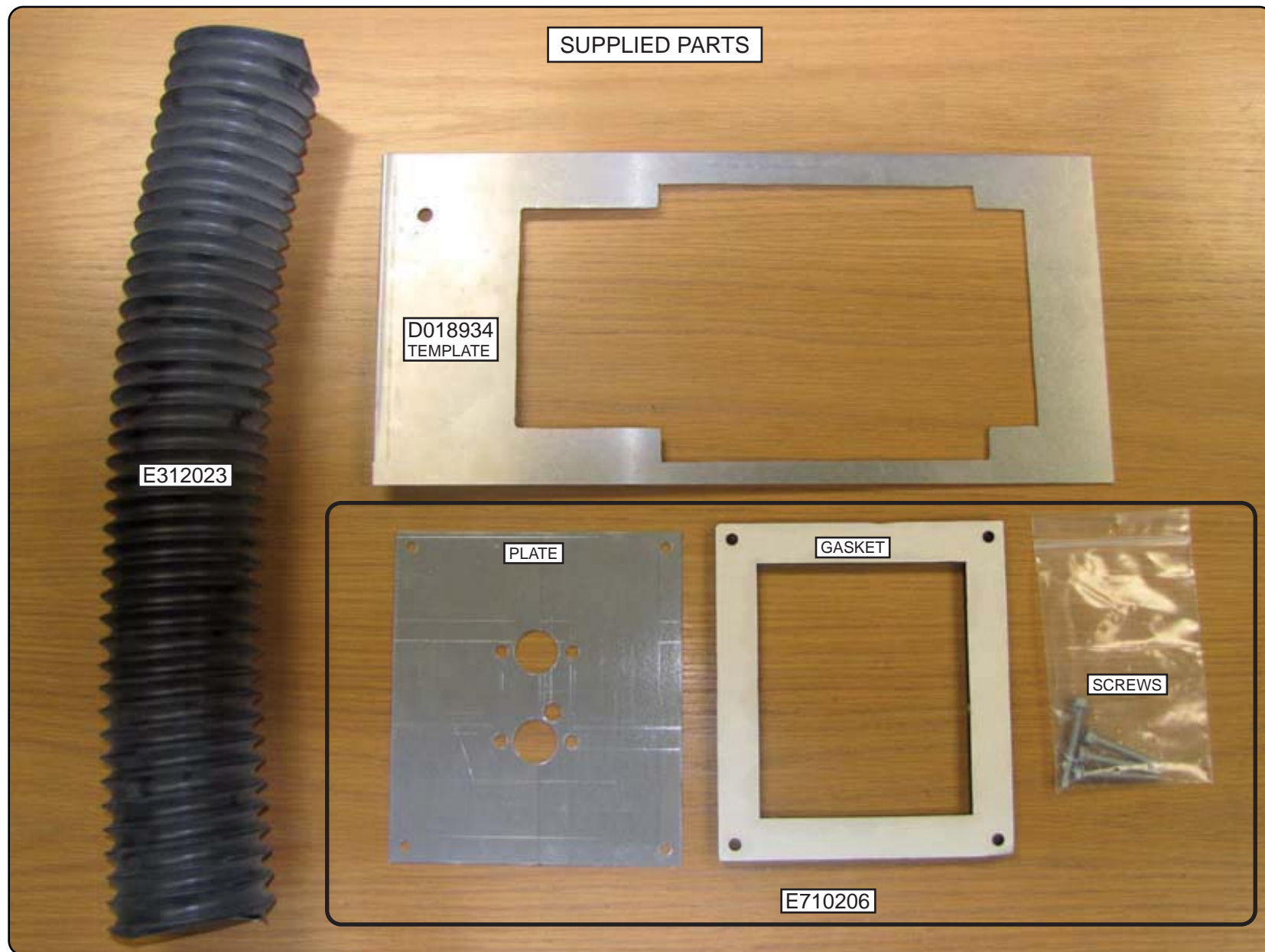
## SERVICE PROCEDURE

Installation time: 3.5 hour / per vehicle.

Qty.	Description	Demers Part #
1	Template	D018934
2.5 ft	Flexible hoses	E312023
1	Installation kit	E710206

Complete a Warranty form & order components on the specified sheet. Forward order to the Demers Customer Assistance Centre service department by fax at: 1-306-373-4144, by email at: [parts@advancedresponsevehicles.com](mailto:parts@advancedresponsevehicles.com) or by phone at: 1-877-373-4464. If you have any questions, contact our Demers Customer Assistance Centre service department at following phone number 1-877-373-4464 and ask for John-Paul Thauberger.

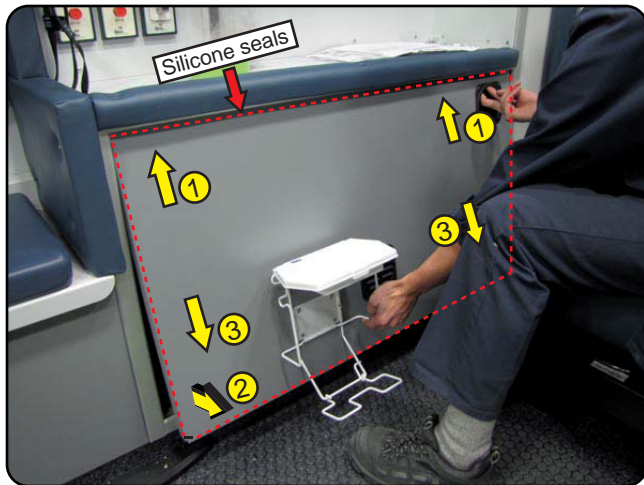
You may also contact our authorized Demers Service Dealer (Knight Hill Automotive) by fax at: 1-604-273-1848, by email at: [contact@knighthill.com](mailto:contact@knighthill.com) or by phone number at: 1-888-546-8333.



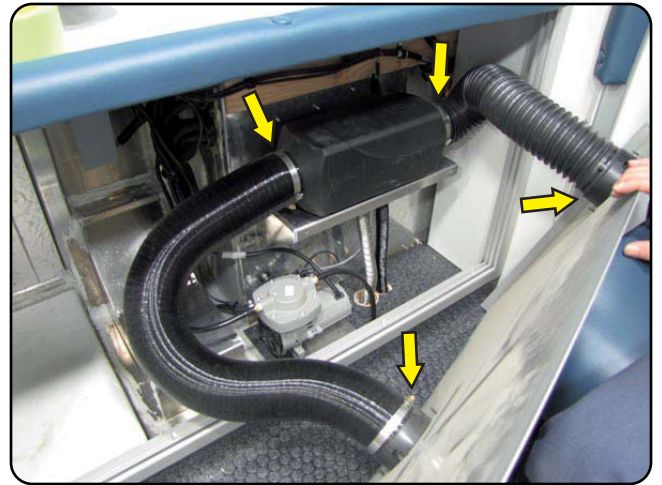
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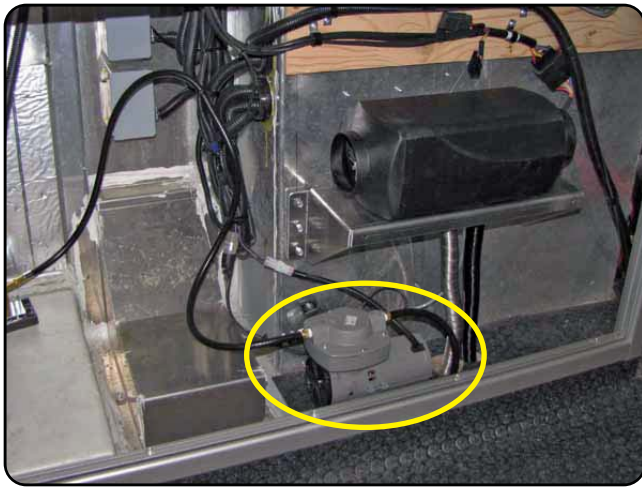
TITLE : ESPAR RELOCATION			
DATE : 2011-08-17	DRAW. : Y. DUBÉ	# DRAWING : # 00699	REV : 1
# ASS :			PAGE : 1/9



To remove the panel, remove the silicone seals. 1- Push the panel upwards, 2 - then pull the bottom part out. 3- push the panel down to remove it.



Disconnect the hot air outlet and the air inlet.



Locate and remove the suction pump.



Locate the air heater's fuel metering pump.



Remove the air heater fuel metering pump.



Remove the air heater with the support.

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TITLE :

ESPAR RELOCATION

DATE : 2011-08-17

DRAW. : Y. DUBÉ

# DRAWING : # 00699

REV : 1  
PAGE : 2/9





The air heater with the support has been removed.



Remove the fuel metering pump hose.  
Send the fuel metering pump hose under the vehicle back through the floor.



Disconnect the combustion air inlet and the exhaust outlet.



Send the combustion air inlet and the exhaust outlet under the vehicle back through the floor.



Remove the 4 nuts to remove the air heater from the support.



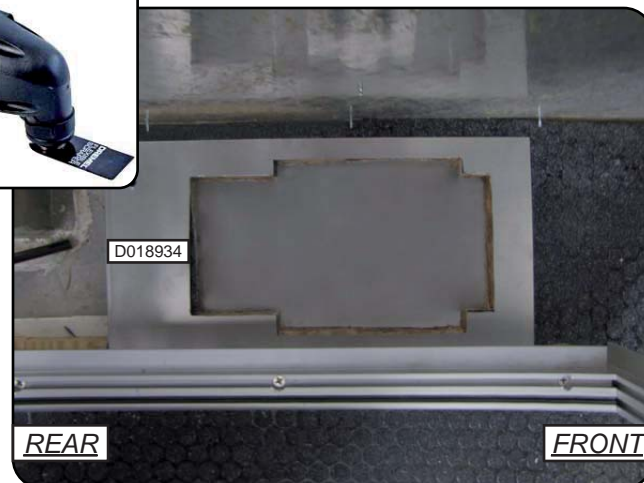
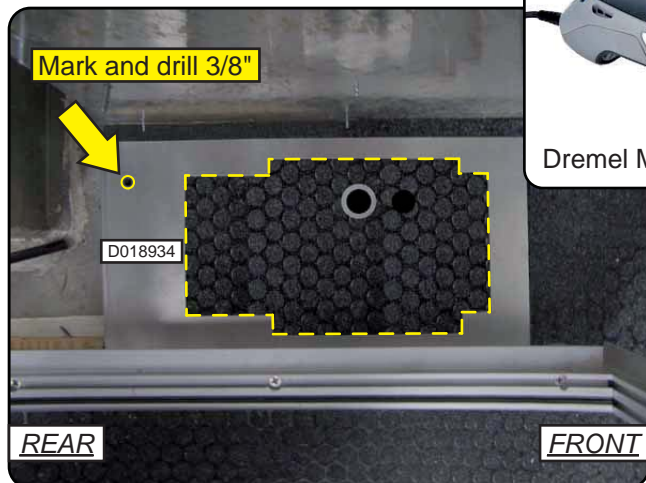
The air heater has been removed from the support.

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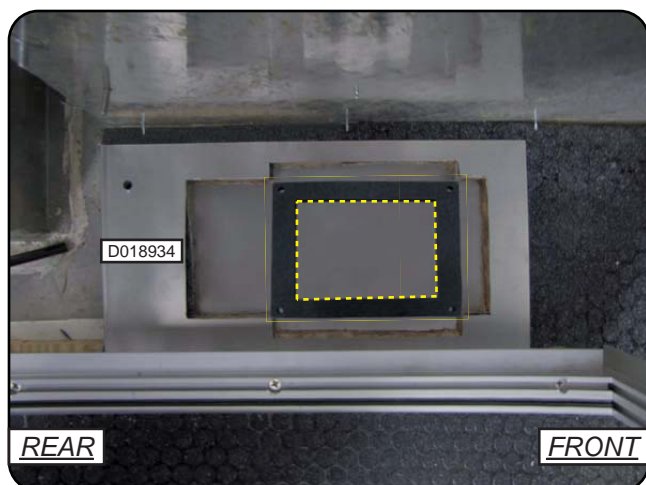
TITLE : ESPAR RELOCATION			
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# ASS :			PAGE : 3/9



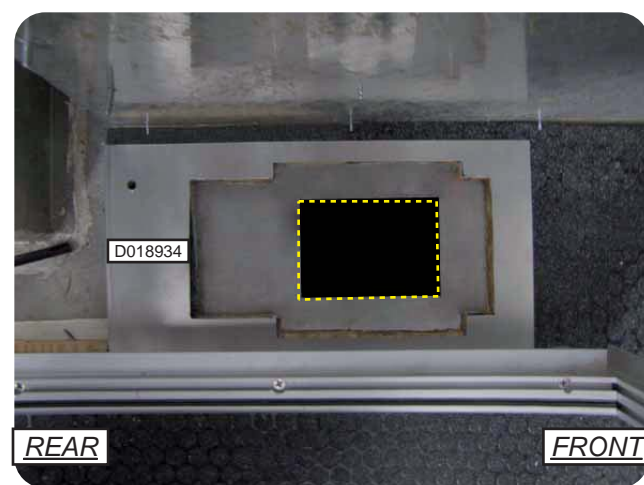


Place the template # D018934 and mark as shown on picture.

Use a Dremel Multi-Max tool (or equivalent) to cut and remove floor covering and plywood (Not the metal).



Use provided gasket to mark the air heater hole as shown on picture.



Cut and remove the aluminum floor.  
Remove the guide.  
Use a vacuum cleaner to remove all foreign material.



Install the provided plate with the 4 nuts.



Install the provided gasket.

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TITLE :

ESPAR RELOCATION

DATE :  
2011-08-17

DRAW. :  
Y. DUBÉ

# DRAWING :  
# 00699

REV :  
1  
PAGE :  
4/9

Note: Tighten screws sufficiently to ensure positive seal between mounting plate and mounting surface. Do not over-tighten.



Place the air heater in the new location.



Use 4 provided screws to fix the air heater on the floor.



Remove the terminals on the connector from the fuel metering pump power harness.



Pass the fuel metering pump power harness through the new hole.



Place the suction pump as shown on picture to mark the new holes.



Mark the 4 new holes.

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ESPAR RELOCATION

DATE :  
2011-08-17

DRAW. :  
Y. DUBÉ

# DRAWING :  
# 00699

REV :  
1  
PAGE :  
5/9

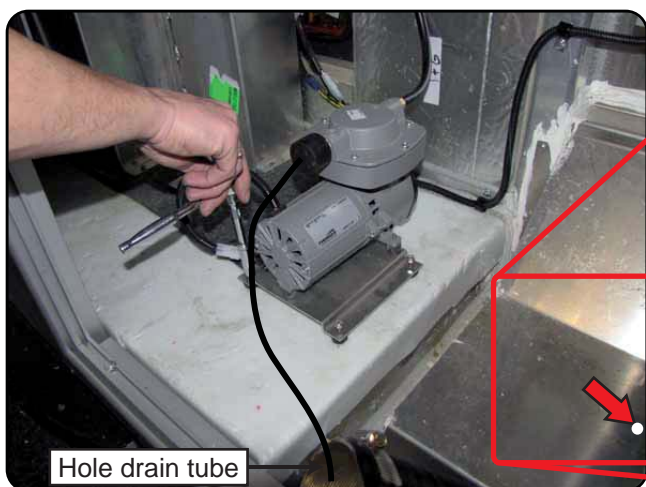




Drill 9/64" all the way through the metal.



Manually install the rubber bushings in the holes.

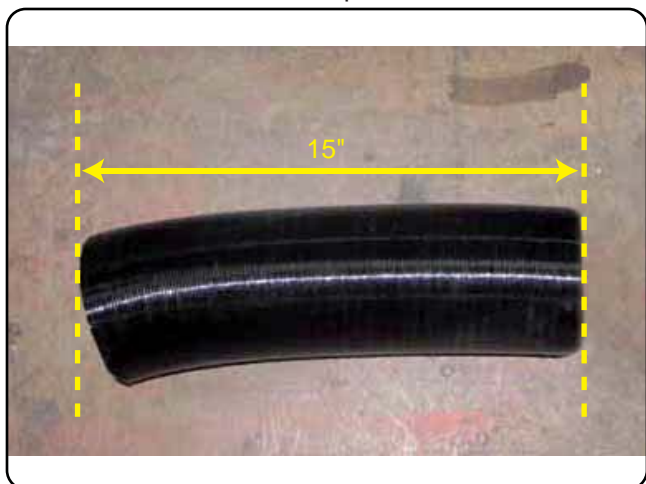


Use original nuts to fix the suction pump on the wheel well.

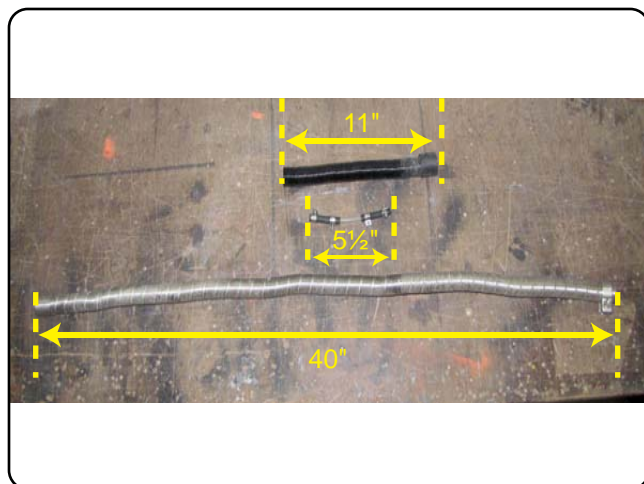
Drill 3/8" in the floor to pass the drain tube.



Seal the hole.



Modify the hot air outlet as shown on picture.



Modify the fuel metering pump hose, the combustion air inlet and the exhaust outlet as shown on picture.

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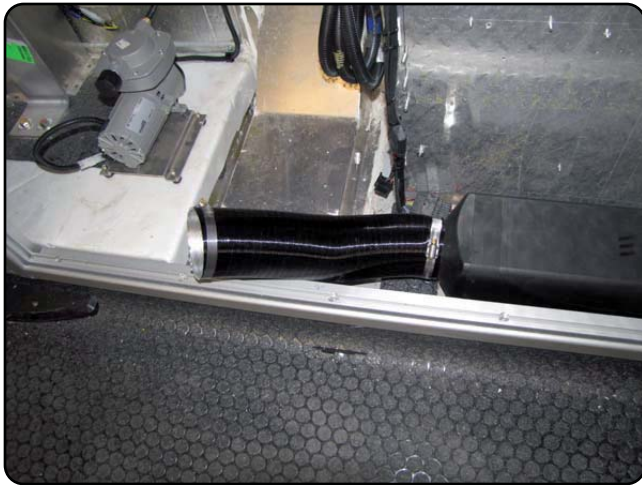
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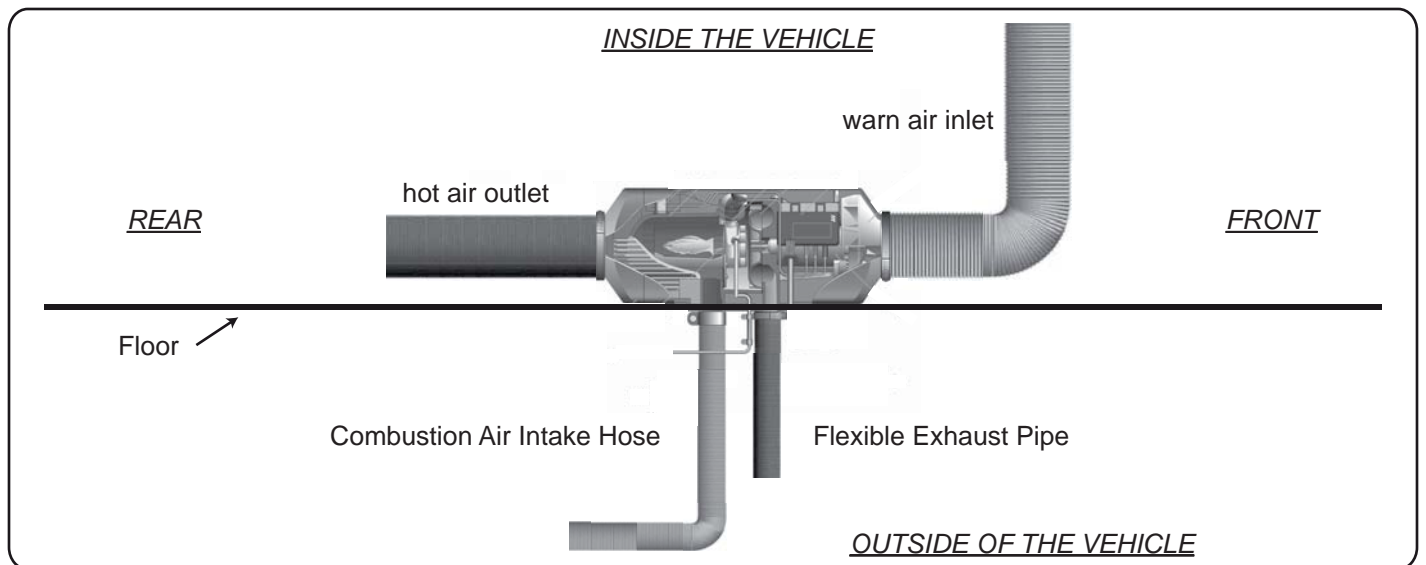
REV : 1  
PAGE : 6/9



Reconnect the hot air outlet.



Reconnect the air inlet.



NOTE :

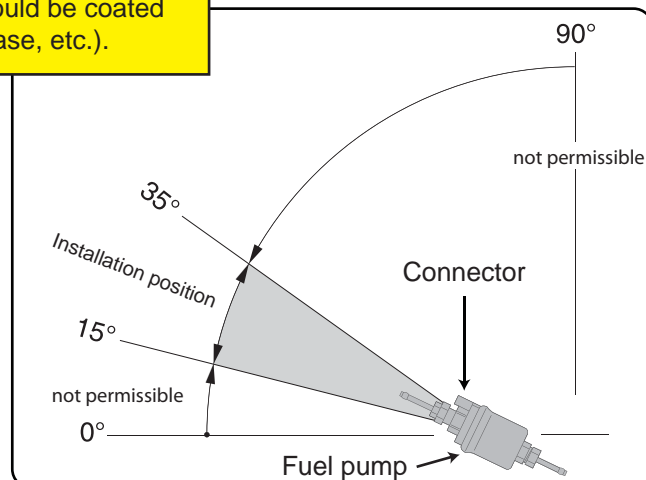
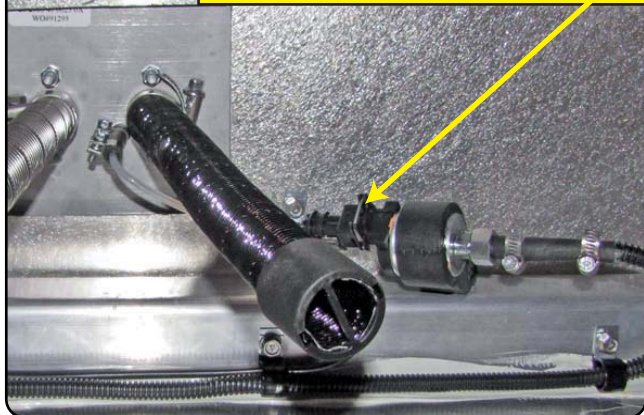
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TITLE : ESPAR RELOCATION			
DATE : 2011-08-17	DRAW. : Y. DUBÉ	# DRAWING : # 00699	REV : 1
# ASS :			PAGE : 7/9



Note: All exposed electrical connections should be coated with protective grease, (Dielectric grease, etc.).



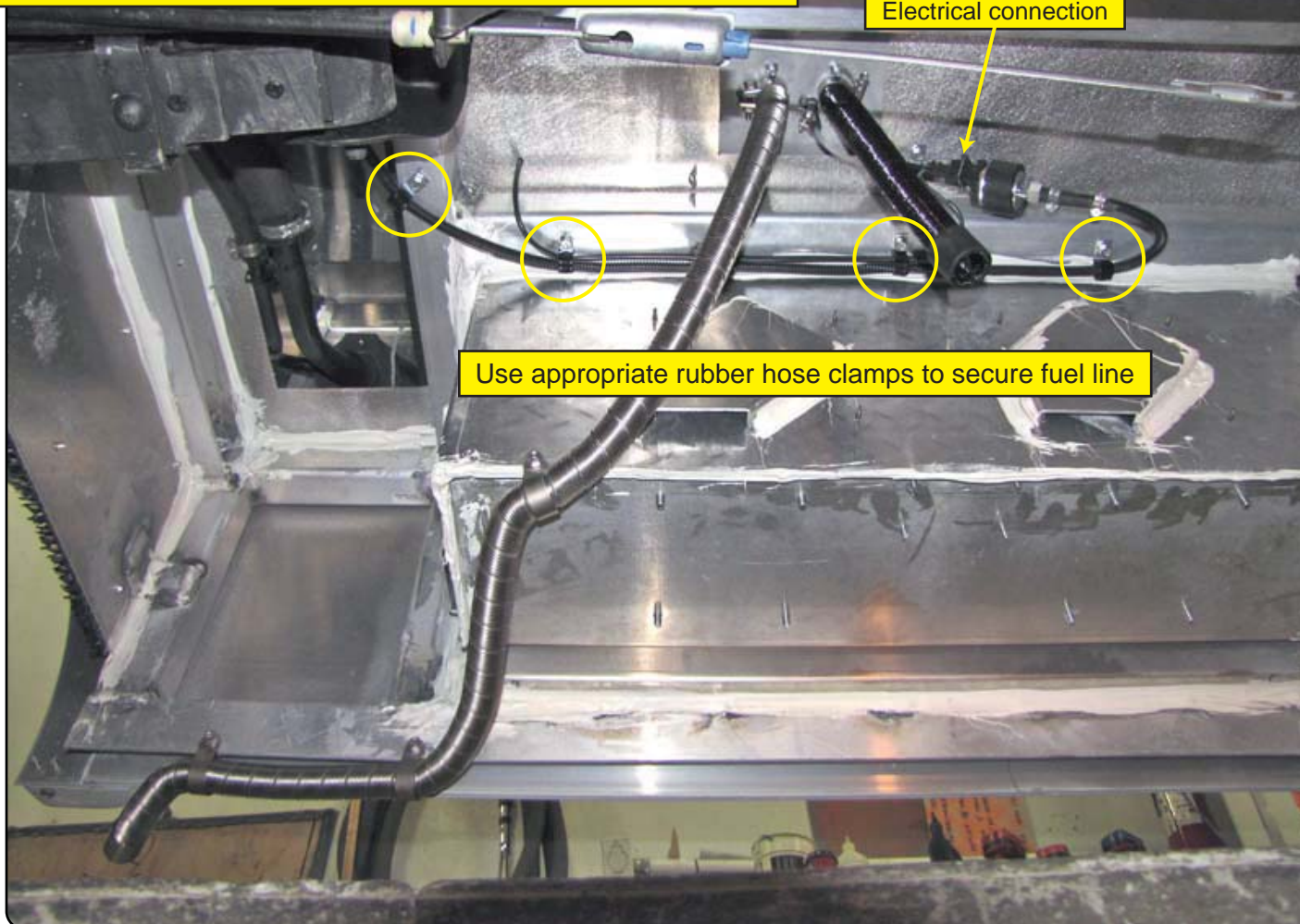
Note: Proper mounting angle of the fuel pump is necessary to allow any air or vapor in the fuel lines to pass through the pump rather than cause a blockage.

Installation position in range 15° to 35°.

Install the fuel pump with the original screw.



Electrical connection



Use appropriate rubber hose clamps to secure fuel line

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DRAW. : Y. DUBÉ

# DRAWING : # 00699

REV : 1  
PAGE : 8/9



Reconnect the hot air outlet and the air inlet on the panel.  
Reinstall the panel. Apply silicone.



Note : The "MASTER" switch must be ON and the engine must be running to activate the Espar heating system.

Test Espar by putting heat on thermostat and turning on heat switch.

Espar may require a couple of minutes to start.

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# DRAWING :  
# 00699

REV :  
1  
PAGE :  
9/9





Formulaire de réclamation de garantie  
Warranty claim form

AQ-F-SC.3 rev.0

Page 1 de 1

1	Numéro de série du véhicule (Coin gauche tableau de bord) Vehicle serial number (V.I.N) (Number on dash, driver's side)	
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2	Numéro d'unité de la flotte Fleet unit number		3	Demers numéro Stock Demers stock number	
---	--	--	---	--	--

4	Date de mise en service (AA/MM/JJ) Date in service (YY/MM/DD)		5	Kilomètres / kilometres Milles / Miles	
---	--	--	---	---	--

6	Date du bris (AA/MM/JJ) Date of failure (YY/MM/DD)		7	Date de la demande garantie Date of warranty claim	
---	---	--	---	---	--

8	Description du problème / Description of the problem

9	Cause(s) du problème / Cause(s) of the problem

10	Action(s) corrective(s) / Corrective(s) action(s)

11	Temps évalué pour la réparation Time evaluated for repair	
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12	Demande de réclamation faite par Claim requested by		13	N° facture Invoice N°	
----	--	--	----	--------------------------	--

14	Adresse de facturation / Billing address
Tél. / Phone:	

15	Adresse de livraison / Shipping address
Tél. / Phone:	

N° pièces / Part N°	QTY	DESCRIPTION

**SÉCTION RÉSERVÉE DEMERS RESERVED SECTION**

- No. d'autorisation de garantie / Warranty claim authorization no. :
- Temps alloué pour la réparation / Time allowed for repairs :
- Date d'autorisation de garantie / Warranty claim authorization date :