

biycool!
green line

DINAMIC 1.1

24 V



Instrucciones de Montaje

Mounting Instructions

Instructions de Montage

Montageanweisungen

Istruzioni di Montaggio

ES Spanish

EN English

FR French

GE German

IT Italian

Recomendaciones Para el montaje

- Antes de iniciar el montaje leer las instrucciones y seguirlas durante el proceso de instalación.
- Usar las herramientas adecuadas para cada operación.

Electricidad

- Desconectar la llave de contacto.
- Desconectar la batería antes de empezar el montaje.
- Asegurar el conexionado de los componentes eléctricos, verificando su correcto encaje.

Atención

Si durante el montaje el equipo se inclina ó se abate la cabina con el equipo montado, se deberá esperar un mínimo de 60 minutos, desde que el equipo quede horizontal, antes de ponerlo en marcha.

Documentación relacionada

Instrucciones de montaje	1002430926
Manual del usuario	1002430924
Diagnos de averías	1002430925
Listado de recambios	1002430922

Las indicaciones relativas a posición son:

DERECHA: Lado pasajero
IZQUIERDA: Lado conductor

Par de apriete (N.m)

Rosca	Calidad Acero		Par
	8.8	10.9	
M6/100	10	13	10

Montaje de tuberías

Par de apriete		
Tubería	Par de apriete	Herramienta
1/4"	13-15	Llave fija 14 mm
3/8"	15-17	Llave fija 19 mm

Herramientas

Carraca con llave de paso de 10

Destornillador de estrella TOP 10

Llave fija de 10, 11, 14, 17, 19

Llave allen de 6

Llave de tubo de Ø10

Broca Ø 4

Taladradora

Broca Ø 6

Sierra circular Ø 19, 22, 48

Tijeras

Remachadora M6

Simbología



Frágil



Atención corte!





Riesgo eléctrico

Documentación incluida

Guía rápida	1002430934
Garantía	220AA10017


Advertencias


 El personal instalador debe poseer una formación suficiente en Aire Acondicionado de vehículos.

 **dirna Bergstrom, s.l.** queda exenta de responsabilidad si se producen averías que procedan de una inadecuada manipulación ó instalación del equipo, ó por modificaciones y sustituciones efectuadas sin nuestra expresa autorización por escrito.

 **Cantidad de carga de gas refrigerante R-134a, a introducir en el circuito: 300 gr.**

 Véase **procedimiento de garantía** del producto incluido en **Diagnos de Averías**.

 Véase **Manual de Usuario** del equipo para el correcto funcionamiento del mando a distancia y del panel de control.

 Al finalizar la instalación se debe entregar al usuario: **Manual del Usuario, Garantía y Diagnos de averías**.

OPERACIONES PREVIAS:

- Desconectar batería.
- Desmontar panel interior de distribución de aire de unidad evaporadora.

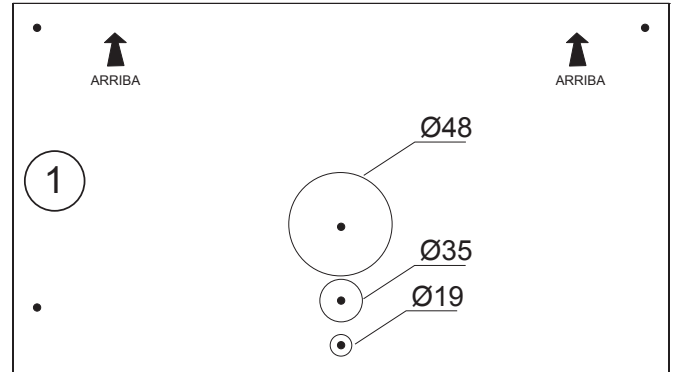


1

POR INTERIOR CABINA:

Presentar plantilla suministrada y marcar taladros.

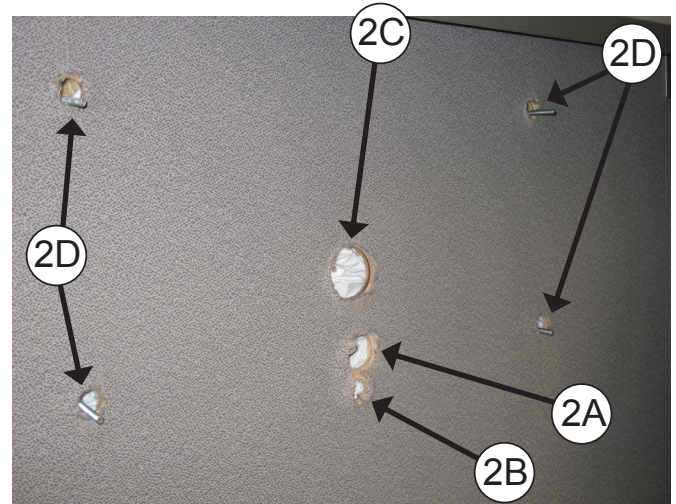
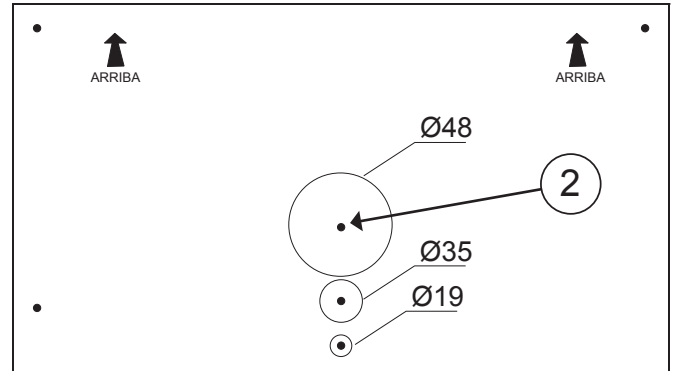
- A-** En caso de existir 2 camas, presentar plantilla entre ambas.
- B-** En caso de existir 1 cama, presentar plantilla por encima de la cama.



2

Dar taladro Ø4 pasante con broca larga en posición de taladro Ø48, después efectuar los siguientes taladros.

- A-** dar (1) Ø35 sólo en el tapizado
- B-** dar (1) Ø19 sólo en el tapizado
- C-** dar (1) Ø48 sólo en el tapizado
- D-** dar (4) Ø22 sólo en el tapizado

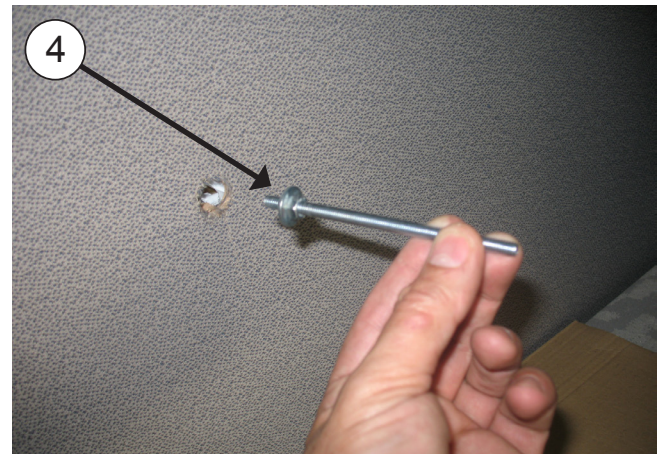


3 **POR EXTERIOR CABINA:**

Presentar plantilla a nivel por exterior, tomando como referencia el taladro efectuado Ø4 y marcar y dar taladros restantes.



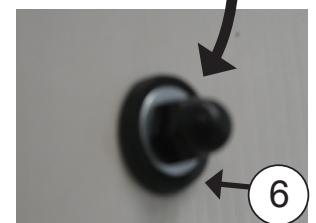
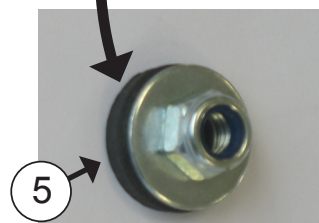
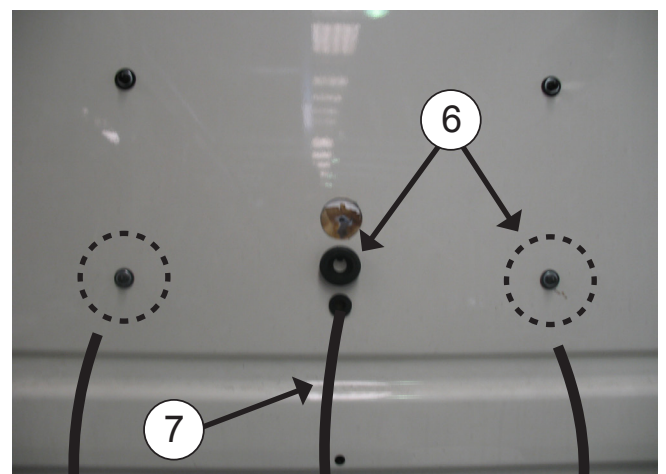
4 Introducir por interior esparragos M6 c/tuerca y arandela como se indica.



5 Fijar por el exterior con arandela de goma, plana y tuerca autoblocante sujetando por parte interior con llave de tubo 10.

6 Colocar tapones de tuerca y pasamuros.

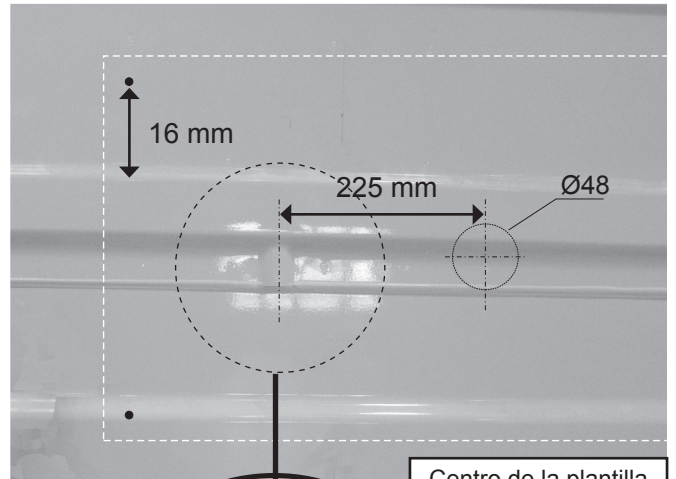
7 Pasar tubo desagüe por taladro Ø19, por el pasamuros, hacia el interior cabina.



OPERACIONES SÓLO VÁLIDAS PARA MODELOS RENAULT MAGNUM

OPERACIONES PREVIAS:

- Desconectar batería.
- Desmontar tapa de unidad evaporadora.



1

POR EXTERIOR CABINA:

Presentar plantilla suministrada según cotas.

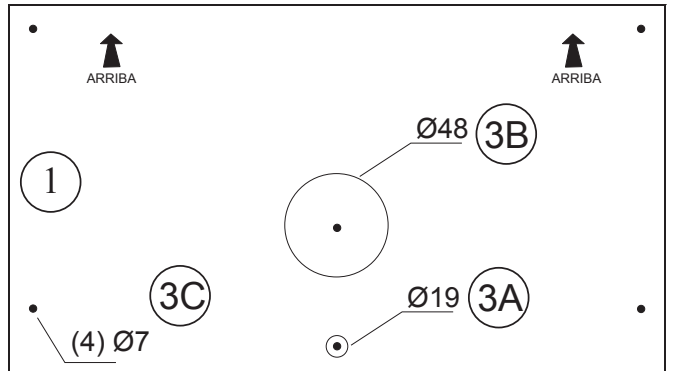
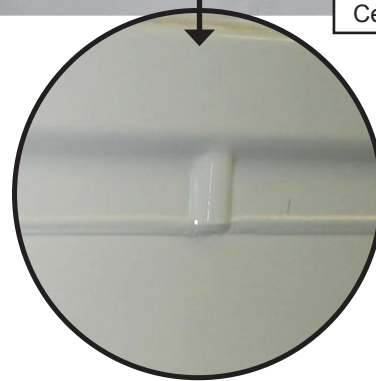
2

Marcar todos los taladros.

3

Dar taladros Ø4 pasante con broca larga en posición de taladro Ø48, después efectuar los siguientes taladros:

- A- dar (1) Ø19
- B- dar (1) Ø48
- C- dar (4) Ø7



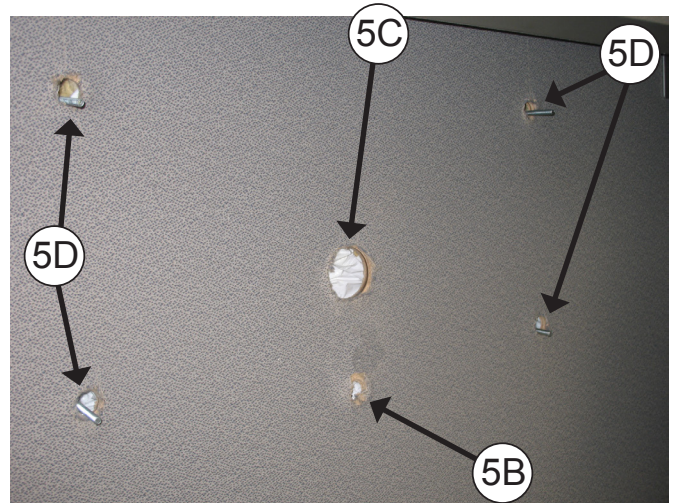
4

POR INTERIOR CABINA:

Presentar plantilla suministrada y marcar taladro de Ø48.

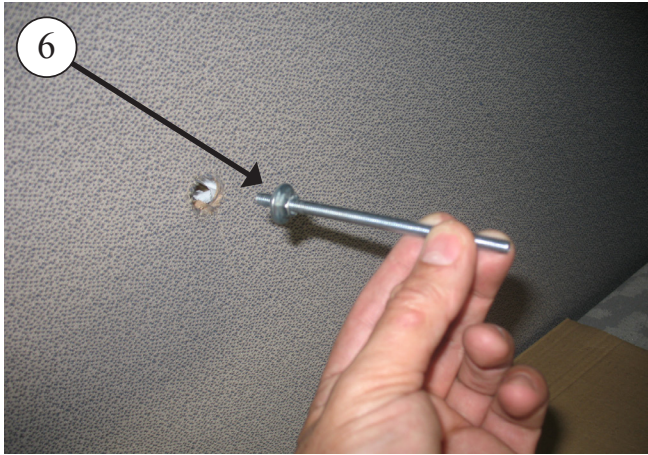
5

Efectuar los siguientes taladros:
 B- dar (1) Ø19 sólo en el tapizado
 C- dar (1) Ø48 sólo en el tapizado
 D- dar (4) Ø22 sólo en el tapizado



OPERACIONES SÓLO VÁLIDAS PARA MODELOS RENAULT MAGNUM

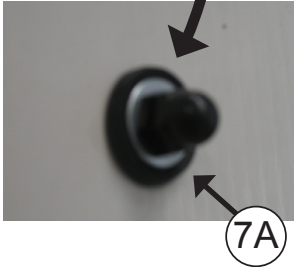
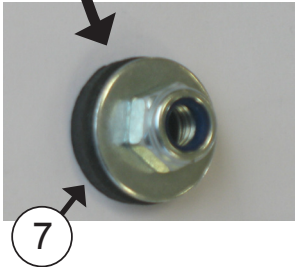
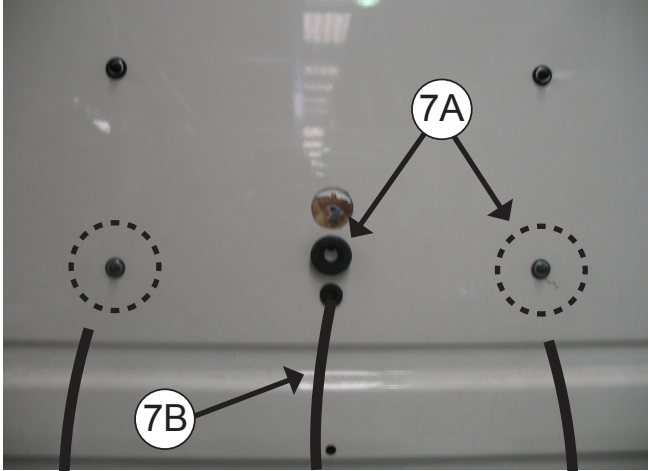
6 **POR EXTERIOR CABINA:**
Introducir por interior esparragos M6 c/tuerca y arandela como se indica.



7 Fijar por el exterior con arandela de goma, plana y tuerca autoblocante sujetando por parte interior con llave de tubo 10.

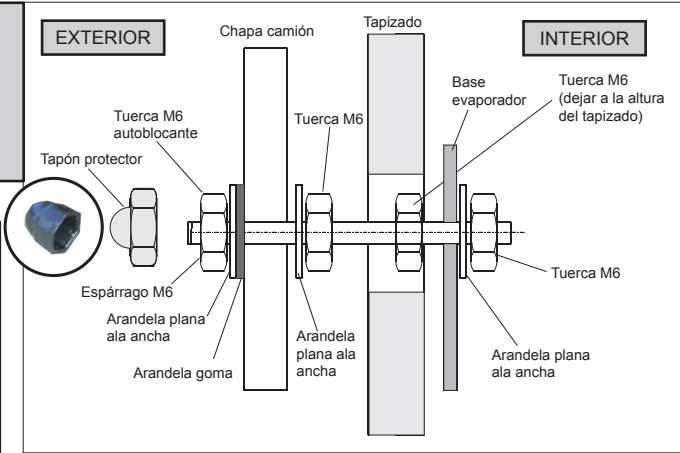
7A Colocar tapones de tuerca y pasamuros.

7B Pasar tubo desagüe por taladro Ø19, por el pasamuros, hacia el interior cabina.

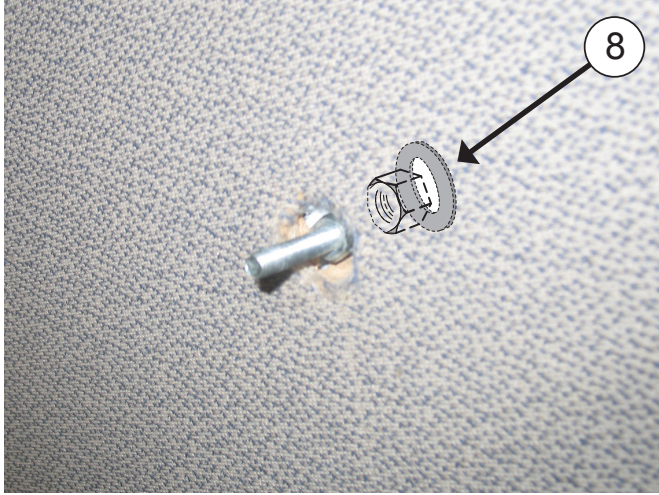
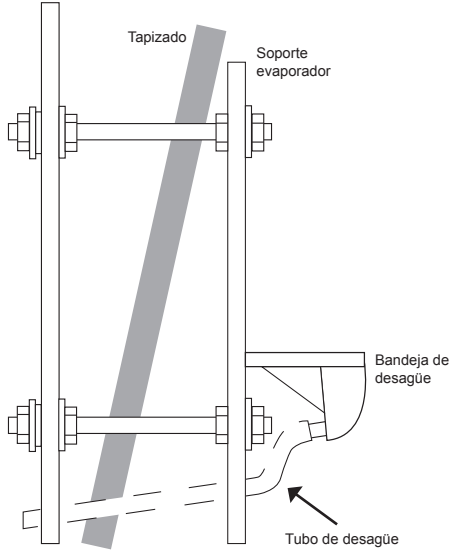


OPERACIONES VÁLIDAS PARA TODOS LOS MODELOS

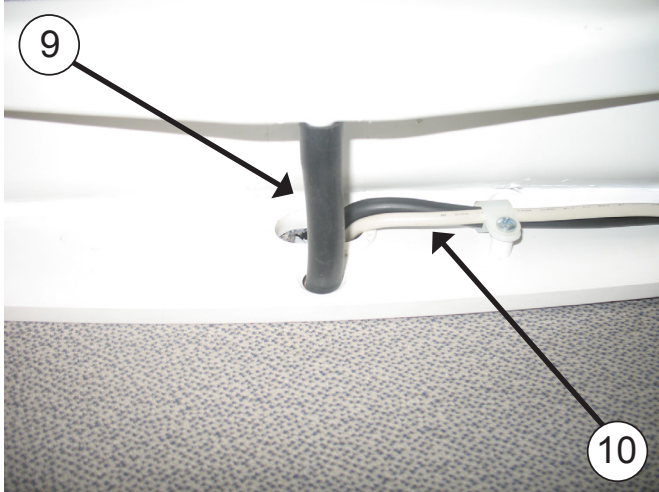
8 En los espárragos roscar (4) tuercas M6 con (4) arandelas planas Ø 6 quedando éstas a ras del tapizado.
VER ESQUEMA ADJUNTO



MUY IMPORTANTE
 En el caso de tapizados con inclinación el conjunto evaporador tiene que quedar vertical para evitar que el agua de condensación caiga al tapizado.



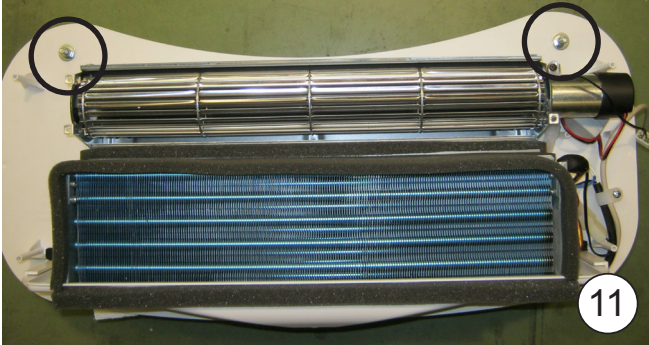
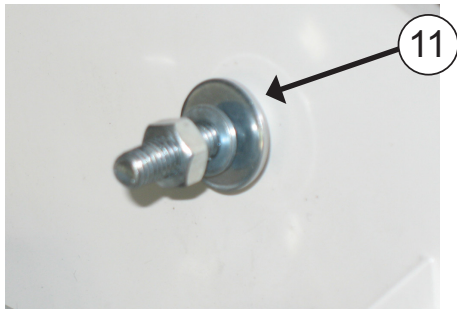
9 Pasar tubo desagüe por taladro de la base del evaporador y conectar a la bandeja.




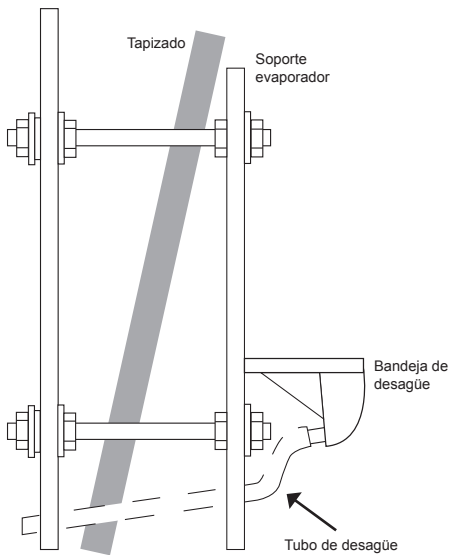
10 Pasar cableados por taladro Ø 35 hacia el exterior.



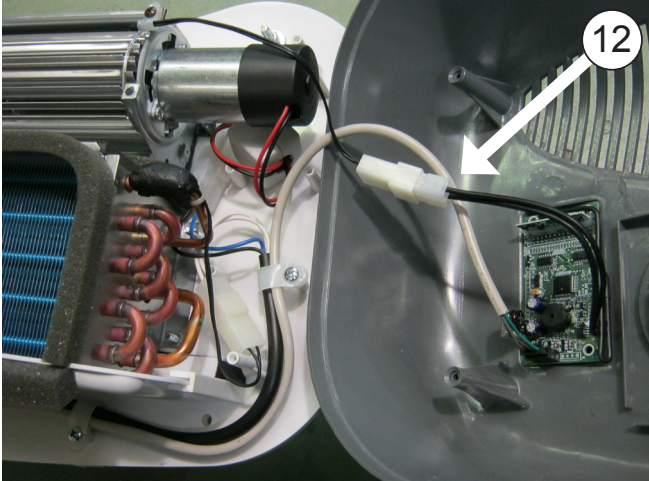
11 Introducir base evaporador sobre espárragos y Fijar con (4) arandelas planas (4)grower y (4) tuercas M6.



 **MUY IMPORTANTE**
El desagüe debe quedar con la suficiente caída para evitar la caída del agua al tapizado.



12 Conectar sensor de aire de retorno y cable de comunicaciones.



13 Volver a fijar panel interior de distribución de aire con sus tornillos, usando destornillador imantado y colocar tapones.

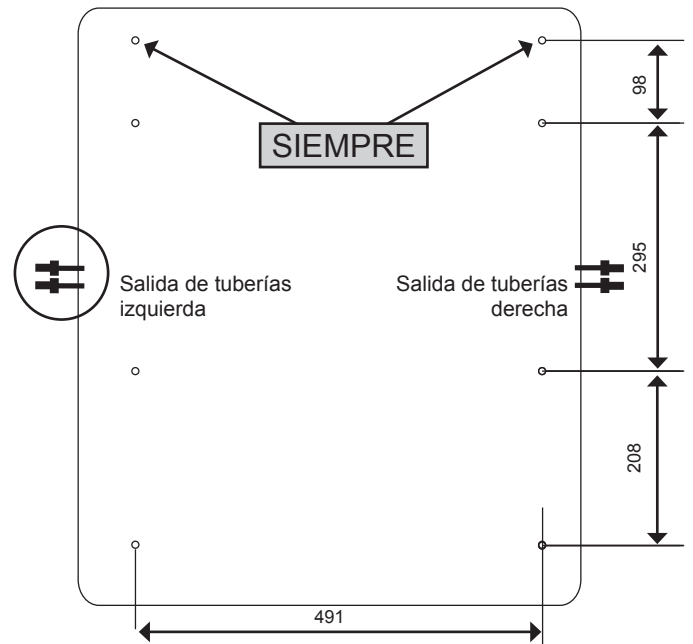


MONTAJE CONDENSADOR:

Importante: Dependiendo del vehículo podemos colocar las salidas de las tuberías por el lado derecho o por el lado izquierdo.

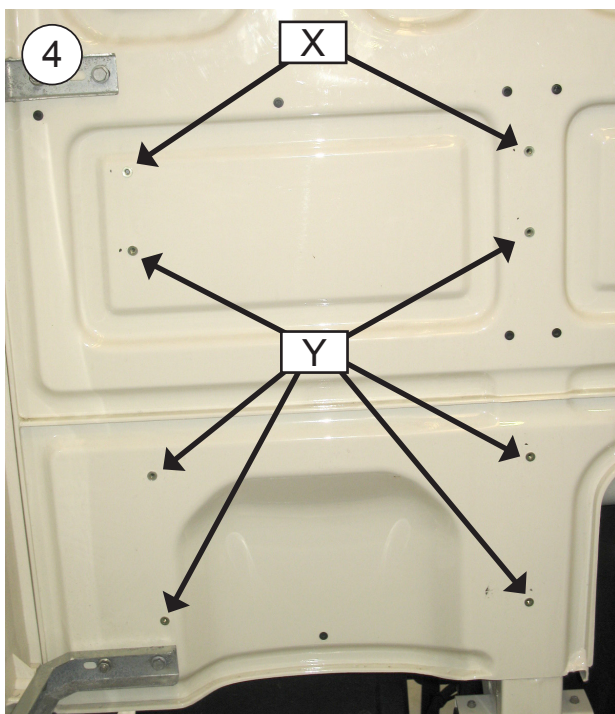
1 **Nota:** Cuando la instalación la realice una sola persona, marcar los taladros con las medidas indicada, teniendo en cuenta longitud de tubería (del evaporador al condensador).

2 Desmontar tapa y soltar el cableado del ventilador del condensador.



3 Si se realiza entre 2 personas. Presentar la base del condensador situandola en la parte trasera de la cabina mas idónea, **teniendo en cuenta la longitud de tubería desde la salida del evaporador al condensador**, y fijar mínimo 6 taladros.

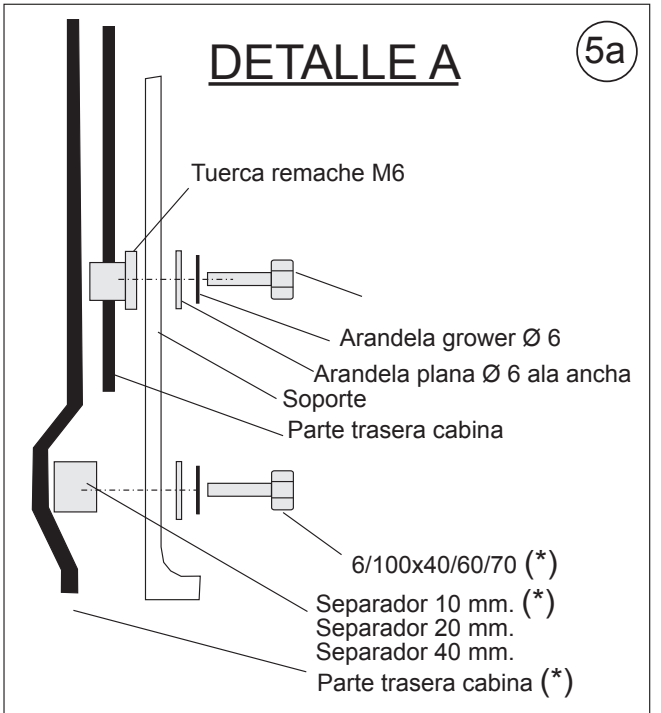
4 Dar primero los (2) Taladros superiores (X) a Ø 9, colocar tuercas remache de M6 y posicionar la base con tornillos 6/100x30 marcar y dar el resto de taladros (Y), colocar tuercas.



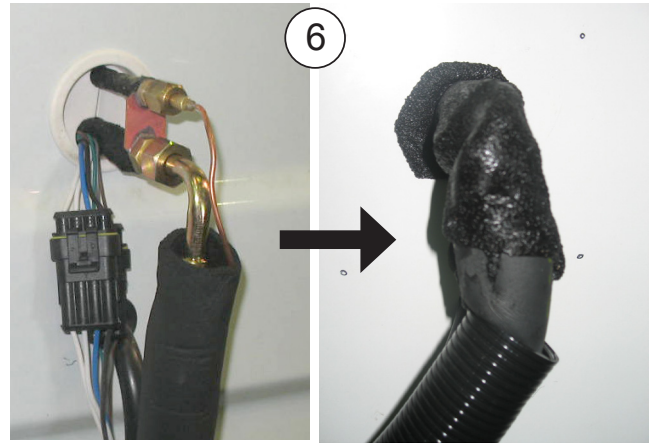
5 Fijar Unidad con (8) tornillos 6/100X30, arandela grower y plana cuando apoye en plano.



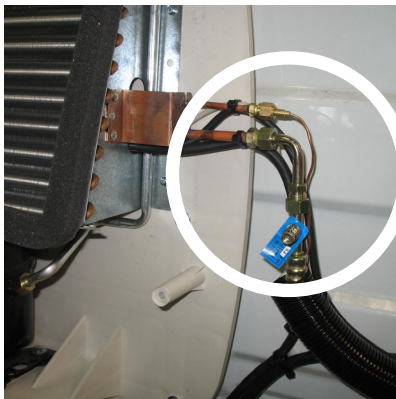
5a (*)- en los casos que no apoye en parte lisa, colocar separador de 10/20/40 mm.y tornillo 6/100x40/60/70.
VER DETALLE A



6 Conectar cableado y racores en evaporador y sellar con cinta antigoteo.

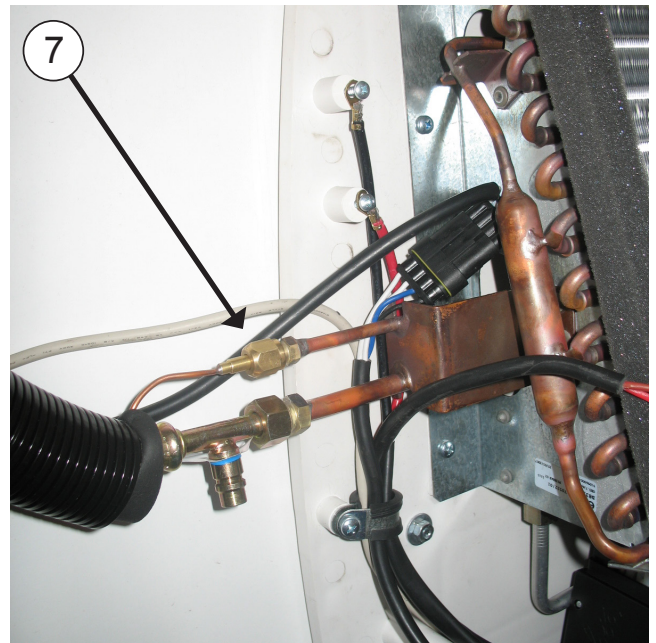


7 Conectar tuberías y cableado en unidad condensadora. En caso necesario colocar racor de empalme 90°.

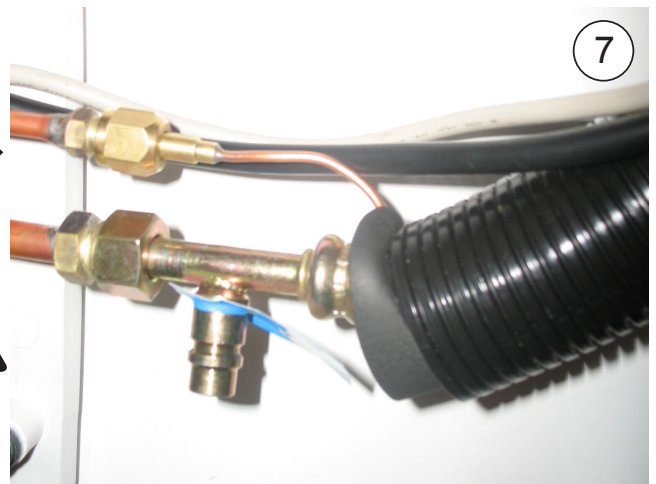


LADO DERECHO

LADO IZQUIERDO



LADO DERECHO

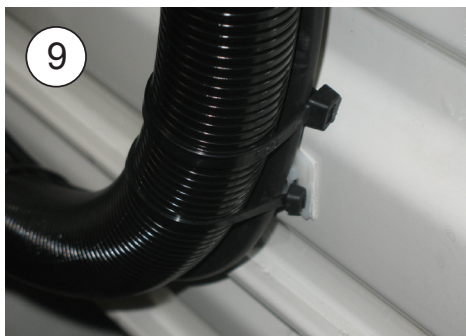


8 Presentar protector de tuberías con junta, marcar y taladrar a Ø4 y fijar con tornillos rosca chapa 4,8x19mm.



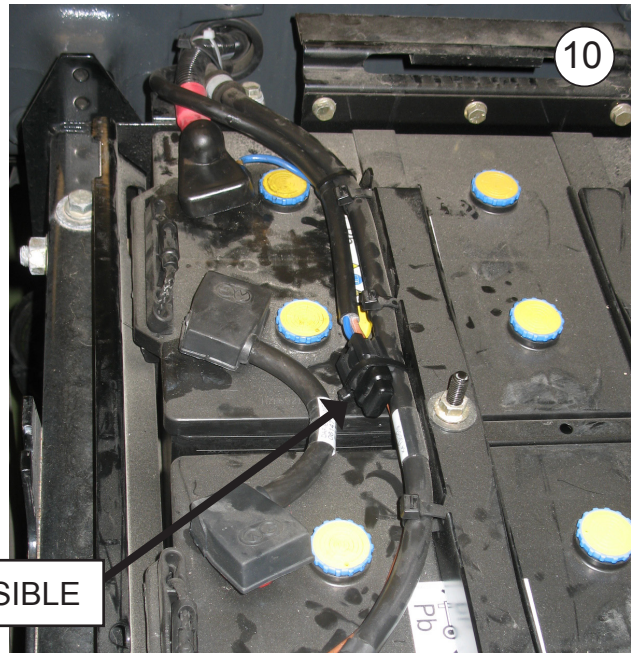
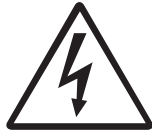
9 Pegar soportes de plástico y fijar tubería, cableados y tubo desagüe (limpiar zona montaje).

9A Colocar válvula de drenaje.



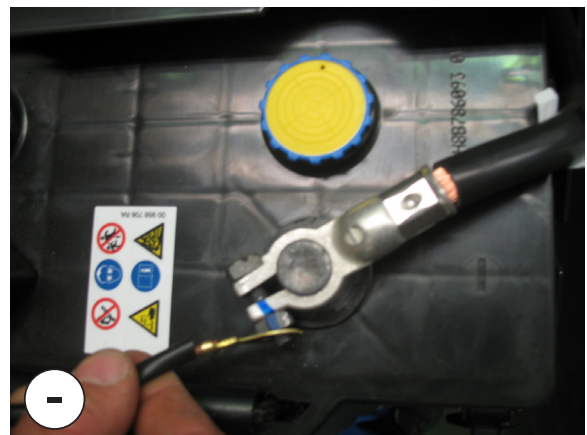
10

Conectar en batería cableado alimentación
ATENCIÓN A LA POLARIDAD.



FUSIBLE

Importante: Debido al complejo sistema de regulación electrónica del equipo la toma de corriente debe realizarse directamente a la batería del vehículo, no a cualquier otro punto que dé servicio a otros accesorios del vehículo teniendo la precaución de no invertir la polaridad al realizar la conexión (1). Si se invierte la polaridad se pueden ocasionar daños irreparables en la electrónica no cubiertos por la garantía.
Importante: Para la puesta en marcha consultar el Manual del Usuario.

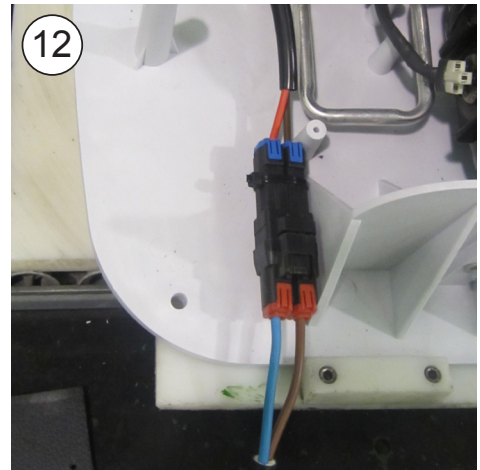


11

Abatir cabina y pasar cableado por la zona mas idonea hacia la unidad condensadora, fijando c/abrazaderas o bridas.

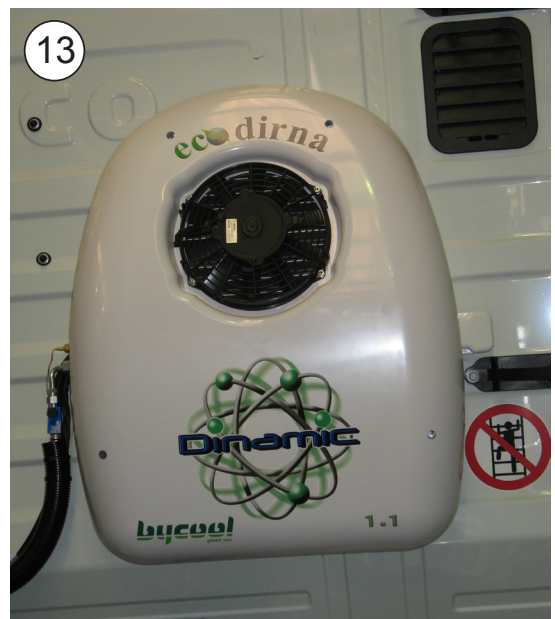
12

Conectar cableado alimentación a la unidad.
 (-) = cables M y N.
 (+) = cables R y Az.



13

Colocar tapa con tornillos desmontados anteriormente.



14

Colocar tapa protectora de racores c/tornillos rosca chapa 3,1x 11 en lado opuesto a tuberías.



CARGA DE GAS:

15 Hacer vacío en el circuito durante al menos 30 minutos.

16 Introducir 300 gr.de carga de gas R134a y poner el equipo en marcha.

17 VISTA GENERAL DE LA UNIDAD CONDENSADORA Y TUBERÍA.



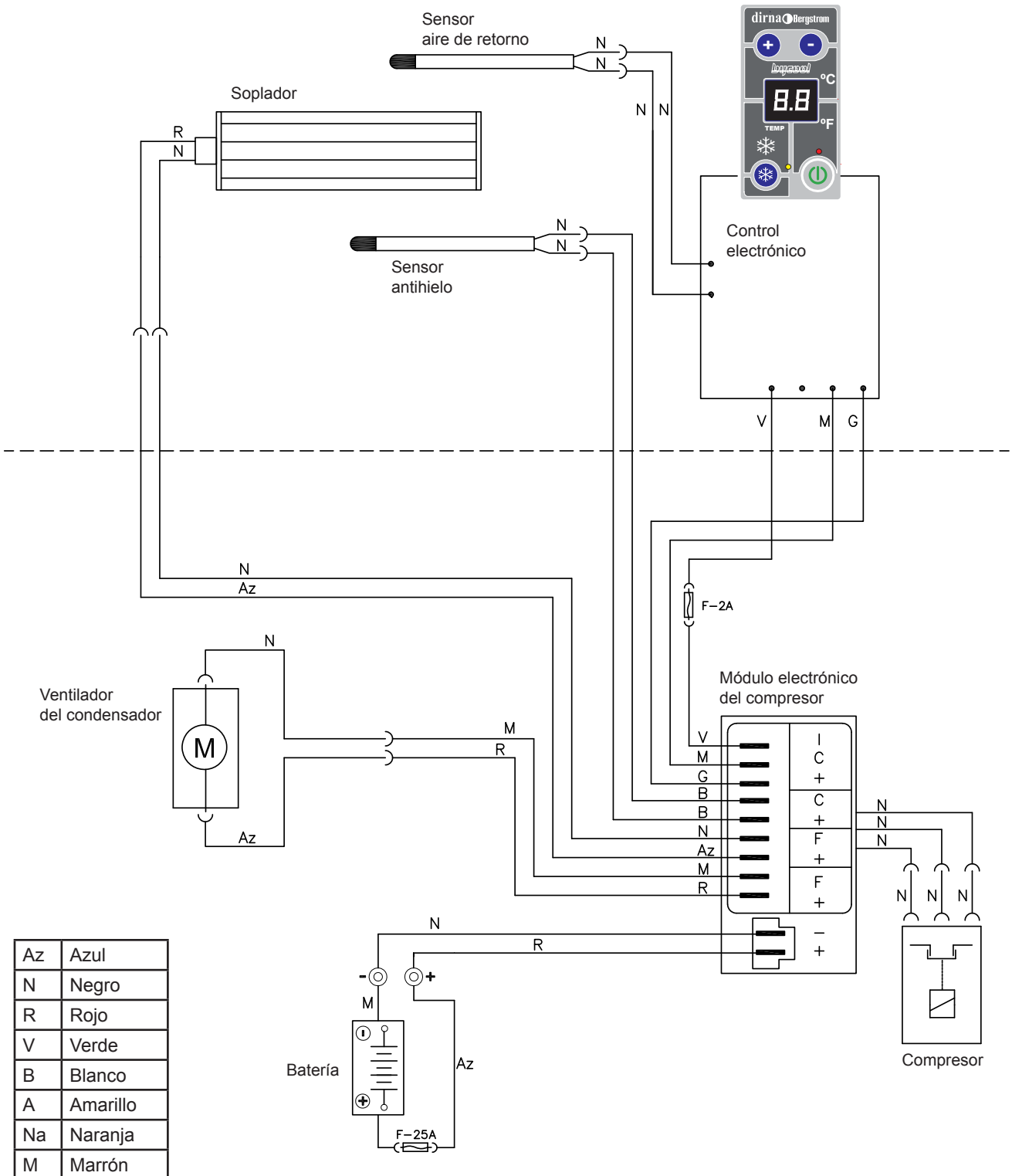
18 VISTA GENERAL DE LA UNIDAD EVAPORADORA.



Esquema eléctrico

¡AVISO IMPORTANTE!

Precaución de no invertir las polaridades al conectar la alimentación al equipo. Si esto sucediera, el panel de control no se enciende y el equipo no funciona.



Assembly Recommendations

- Before starting assembly, please read instructions and follow them during installation process.
- Use the adequate tools for each operation.

Electricity

- Disconnect ignition key.
- Disconnect battery before starting assembly.
- Make sure electric components are securely connected, checking their correct fitting.

Warning

If, during assembly, the unit becomes slanted or the cabin drops with the unit mounted, wait for at least 60 minutes from the moment the unit is horizontal before starting up.

Related documentation

Mounting instructions	1002430926
User's guide	1002430924
Troubleshooting	1002430925
Parts list	1002430922

Indications concerning position are:
RIGHT: Passenger side
LEFT: Driver side

Driving torques (N.m)

Fillet	Steel Quality		Wrench opening
	8.8	10.9	
M6/100	10	13	10

Hoses assembly




Driving torques (N.m)

Hose size	Fitting Driving Torque	Tool
1/4"	13-15	Wrench 14mm.
3/8"	15-17	Wrench 19mm.

Tools

- Ratchet wrench of 10
- Cruciform screwdriver TOP 10
- Wrench of 10, 11, 14, 17, 19
- Allen key of 6
- Socket wrench of Ø10
- Broach Ø 4
- Drill
- Broach Ø 6
- Circular saw Ø 19, 22, 48
- Scissors
- Riveter M6







Symbology

-  Fragile
-  Beware of cuts!
-  Electrical hazard

Documentation included

Quick guide	1002430934
Warranty	220AA10017

Warnings

-  The installing personnel must have a sufficient training in vehicles air conditioning.
-  **dirna Bergstrom, s.l.** shall not be responsible for breakdowns or damages coming from an inadequate handling or installation of the equipment or from modifications and substitutions carried out without our express and written authorisation.
-  **Amount of refrigerant gas load R-134a to be introduced in the circuit: 300 g.**
-  Please see product **warranty** procedure included in **Troubleshooting**.
-  Please see equipment **User's Guide** for its correct functioning of the remote control and control panel.
-  Once installation is finished, the following documents must be handed over to the user: **User's Guide**, **Warranty** and **Troubleshooting**.

PRIOR OPERATIONS:

- Disconnect the battery.
- Take down the evaporation unit's air distribution interior panel.

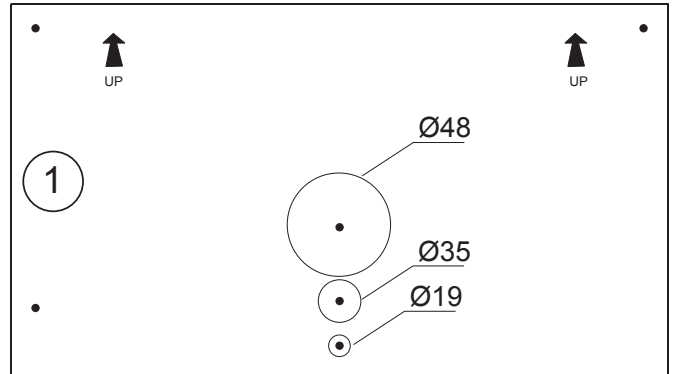


1

CABIN INTERIOR:

Introduce the template supplied and mark bores.

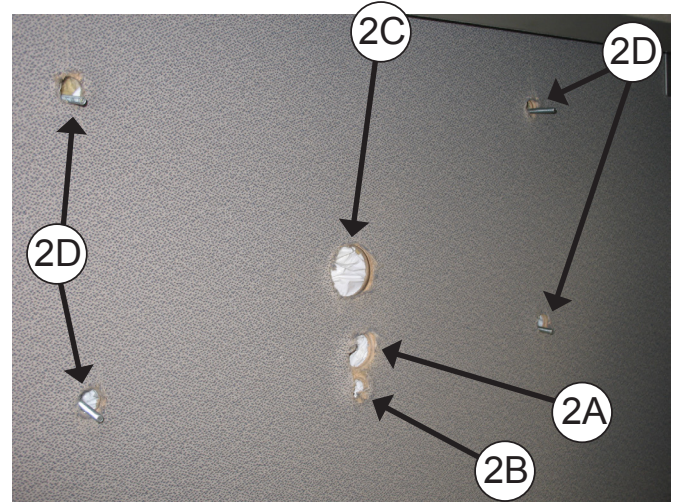
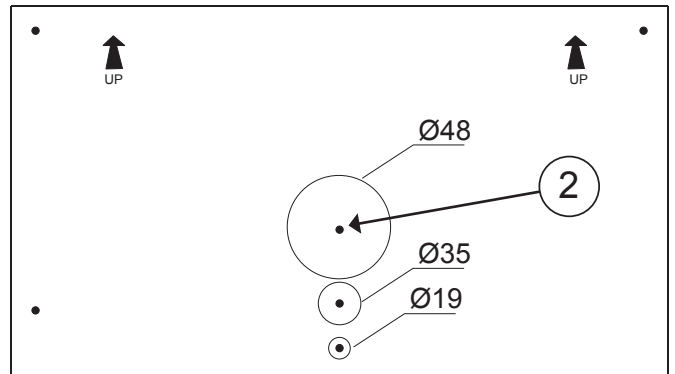
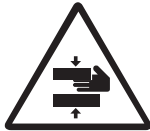
- A-** If there are 2 beds, place the template between the two.
- B-** If there is 1 bed, place the template on the bed.



2

Make through bore Ø4 with long broach in bore position Ø48, and then make the following bores.

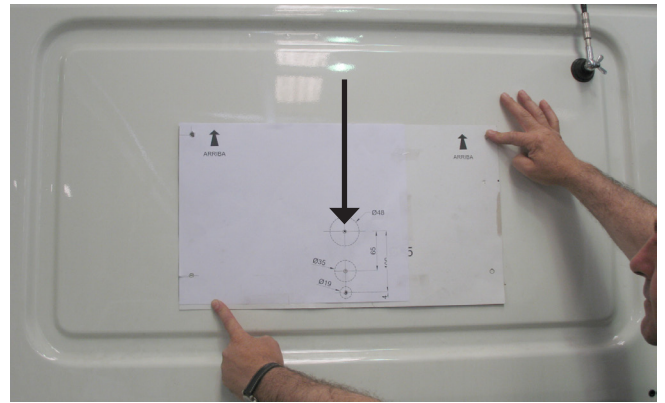
- A-** make (1) Ø35 in the cover only
- B-** make (1) Ø19 in the cover only
- C-** make (1) Ø48 in the cover only
- D-** make (4) Ø22 in the cover only



3

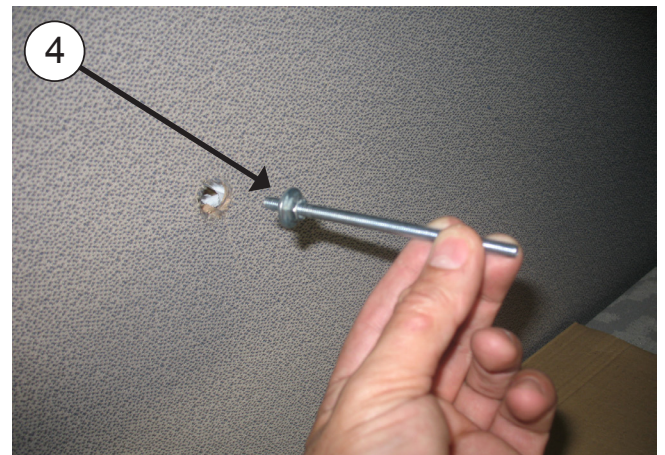
CABIN EXTERIOR:

Introduce the template level using the exterior, taking as reference the Ø4 bore made, mark and make the remaining bores.



4

Introduce M6 studs in the interior with a nut and washer as indicated.



5

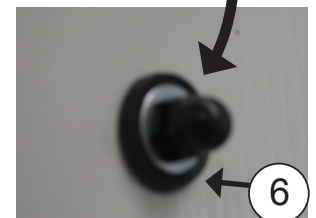
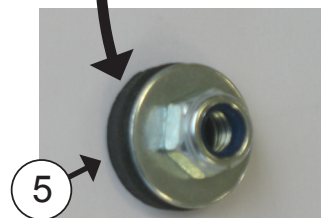
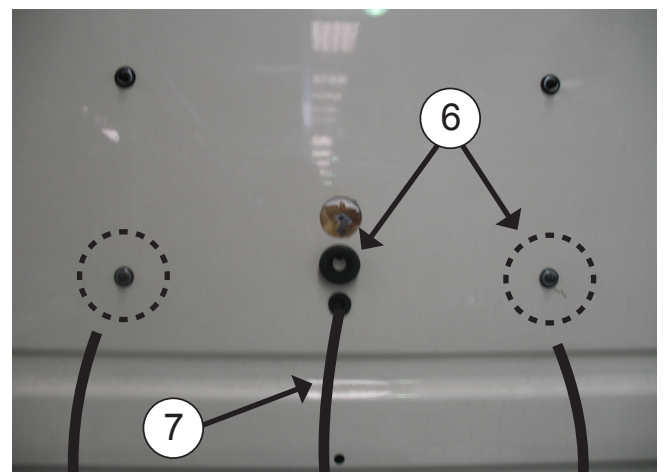
Secure the exterior with a rubber washer, a flat washer and a self-locking nut, securing at the bottom with a socket wrench of 10.

6

Position bushing and nut covers.

7

Pass the waste water pipe through the bore of Ø19, through the bushing, towards the inside of the cabin.



OPERATIONS ONLY VALID FOR RENAULT MAGNUM MODELS

PRIOR OPERATIONS:

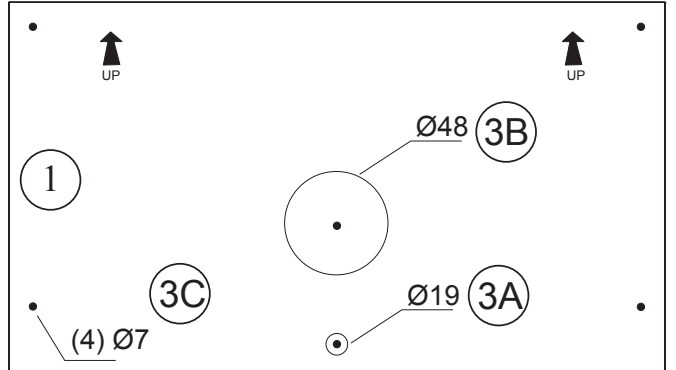
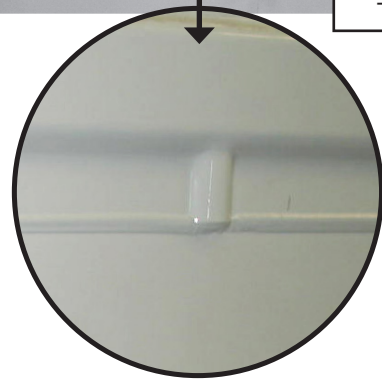
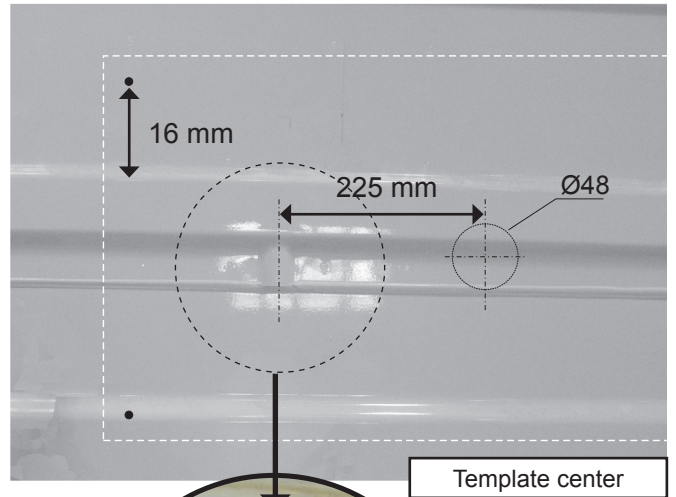
- Disconnect the battery.
- Dismount the evaporation unit cover.



1 CABIN EXTERIOR:
Introduce the template supplied in accordance with levels.

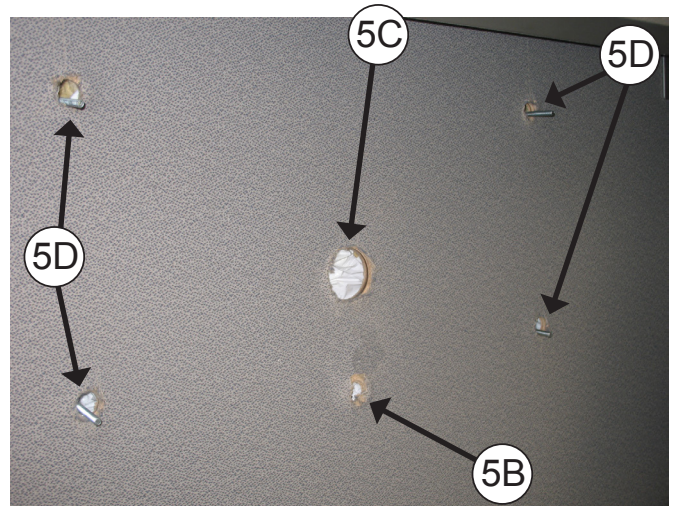
2 Mark all the bores.

3 Make through bore $\varnothing 4$ with long broach in bore position $\varnothing 48$, and then make the following bores:
A- make (1) $\varnothing 19$
B- make (1) $\varnothing 48$
C- make (4) $\varnothing 7$



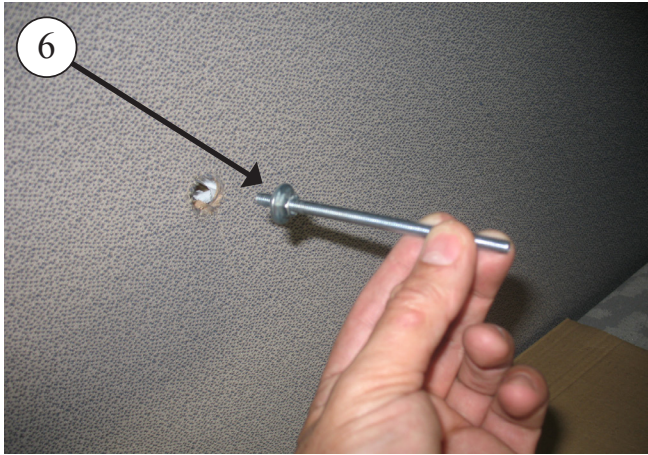
4 CABIN INTERIOR:
Introduce the template supplied and mark a bore of $\varnothing 48$.

5 Make the following bores:
B- make (1) $\varnothing 19$ in the cover only
C- make (1) $\varnothing 48$ in the cover only
E- make (4) $\varnothing 22$ in the cover only



OPERATIONS ONLY VALID FOR RENAULT MAGNUM MODELS

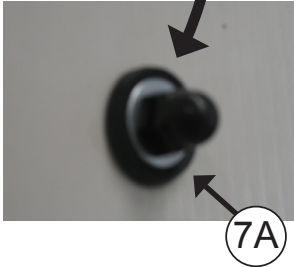
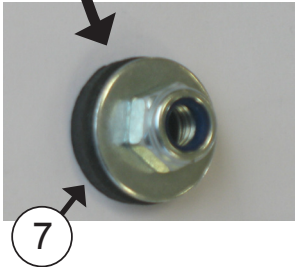
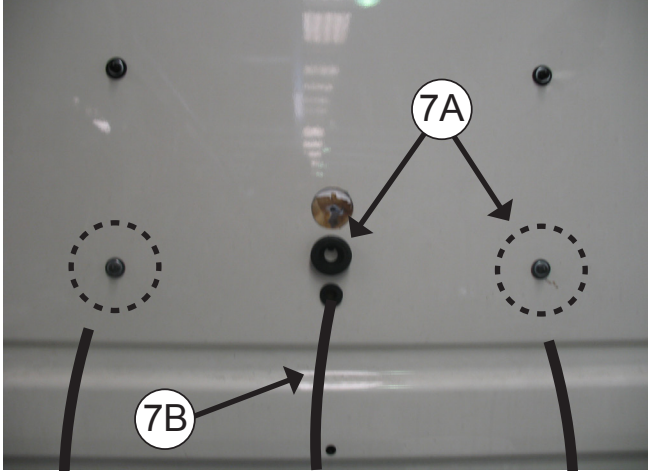
6 **CABIN EXTERIOR:**
Introduce M6 studs in the interior with a nut and washer as indicated.



7 Secure the exterior with a rubber washer, a flat washer and a self-locking nut, securing at the bottom with a socket wrench of 10.

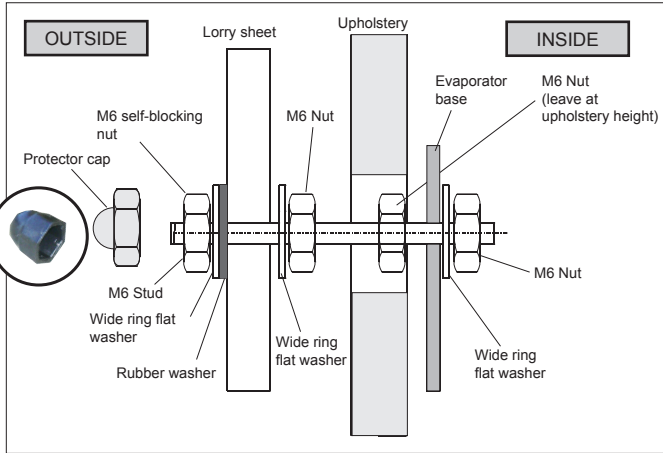
7A Position bushing and nut covers.


7B Pass the waste water pipe through the bore of Ø19, through the bushing, towards the inside of the cabin.

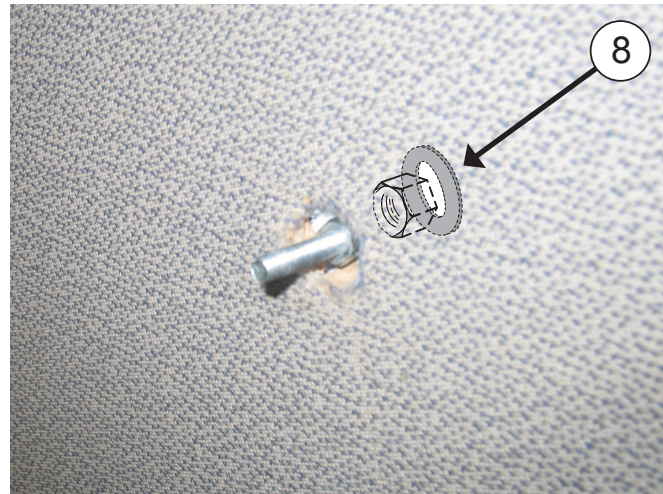
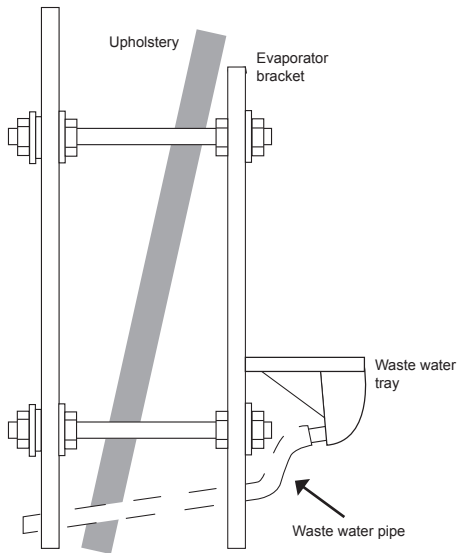


OPERATIONS VALID FOR ALL MODELS

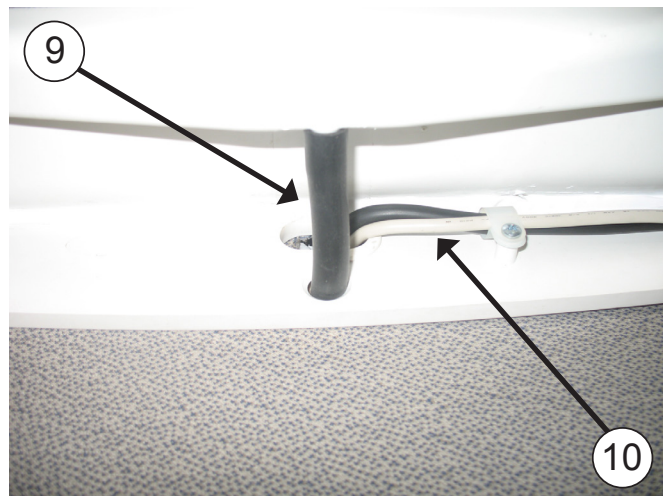
8 On the studs, thread (4) M6 nuts with (4) flat washers Ø 6, which should be level with the cover.
SEE ATTACHED DIAGRAM



 **VERY IMPORTANT**
 In the case of slanting upholstery, the evaporator unit must be vertical to prevent the condensation water from dropping onto the upholstery.



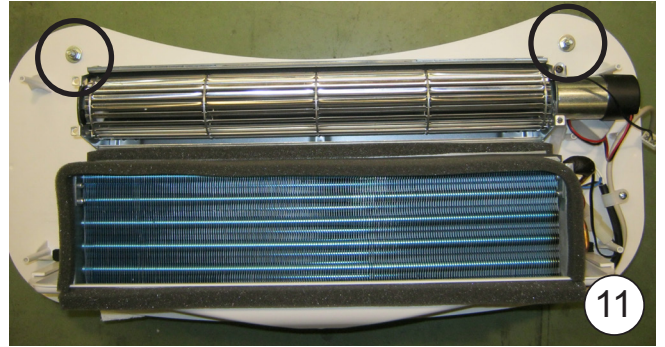
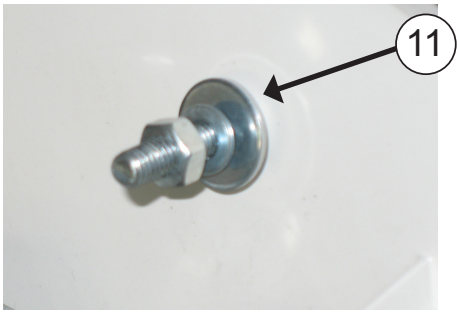
9 Pass the waste water pipe through the bore of the evaporator base and connect to the tray.




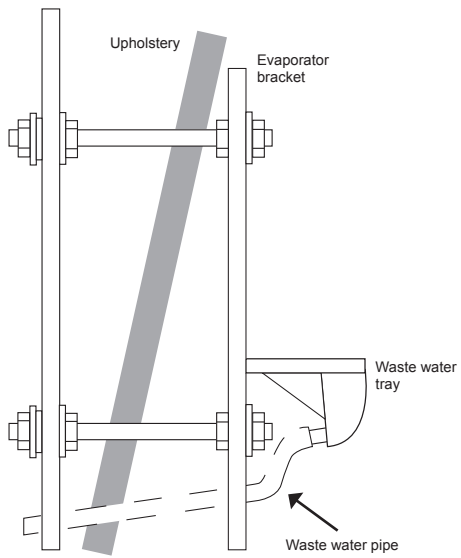
10 Pass the cabling through the Ø 35 bore towards the exterior.



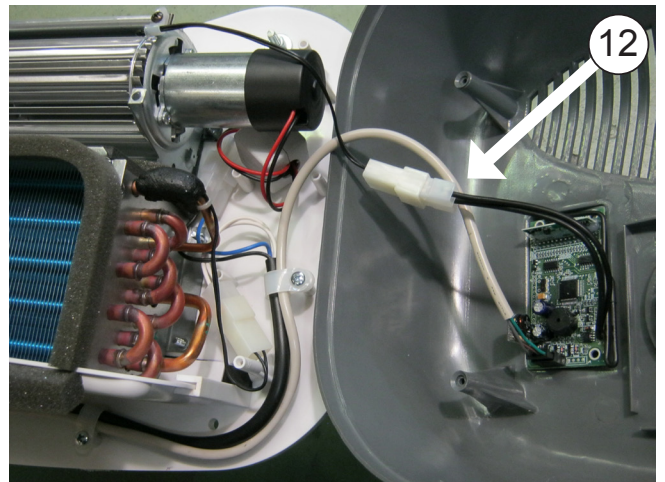
11 Introduce the evaporator base on the studs and secure with (4) flat washers, (4) Grower washers and (4) M6 nuts.



 **VERY IMPORTANT**
The wastewater run-off must be sufficient to prevent water from dropping onto the upholstery.



12 Connect the return air sensor and communications cable.



13 Refasten the air distribution interior panel with its screws using a magnetic screwdriver and insert plugs.

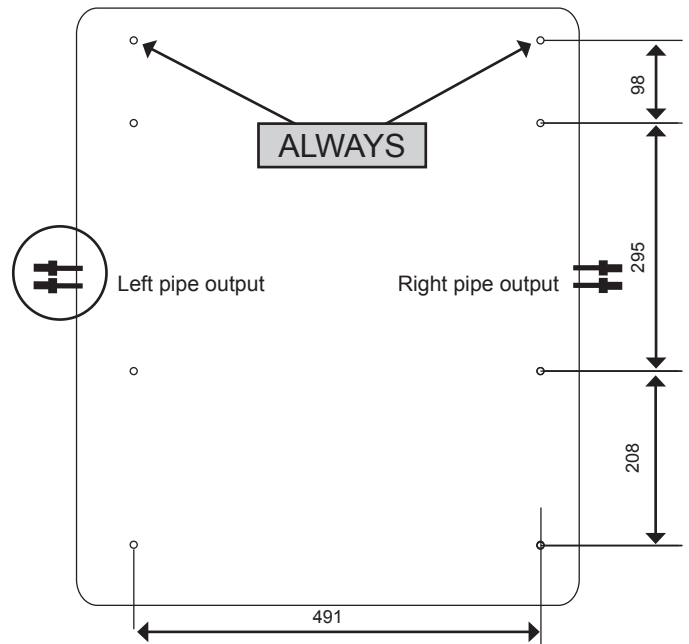


CONDENSER ASSEMBLY:

Important: Depending on the vehicle, we can position the pipe outputs on the right or left side.

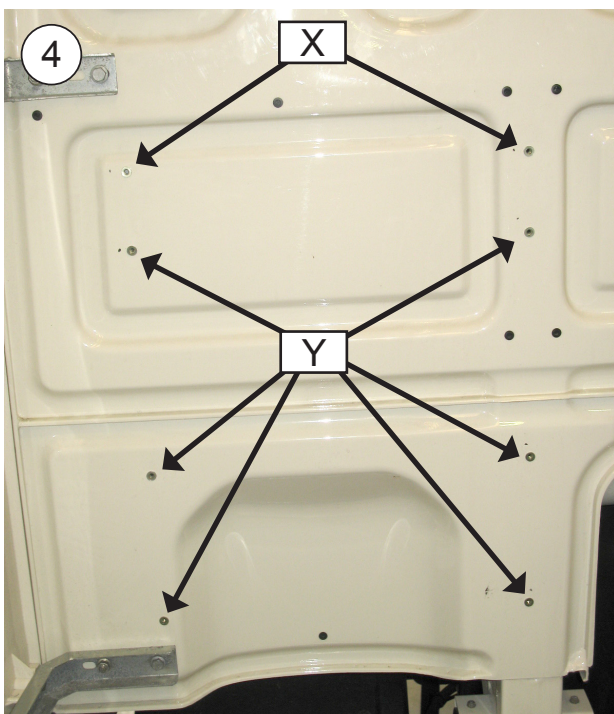
1 **Note:** When the installation is carried out by just one person, mark the bores with the indicated measurements, taking into account the pipe length (from the evaporator to the condenser).

2 Remove the cover and release the condenser fan cable.



3 If this is carried out by 2 people, introduce the capacitor base, placing it at the most appropriate part of the rear of the cabin, taking into account the pipe length from the evaporator to the condenser, and secure with at least 6 bores.

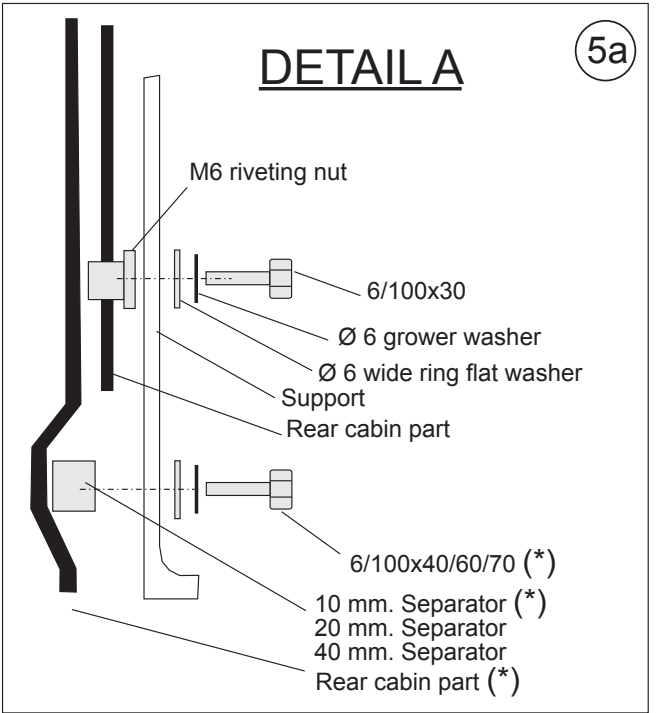
4 First make the (2) upper bores (X) at Ø 9, position M6 rivet nuts and position the base with screws 6/100x30, mark and make the rest of the bores (Y), position the nuts.



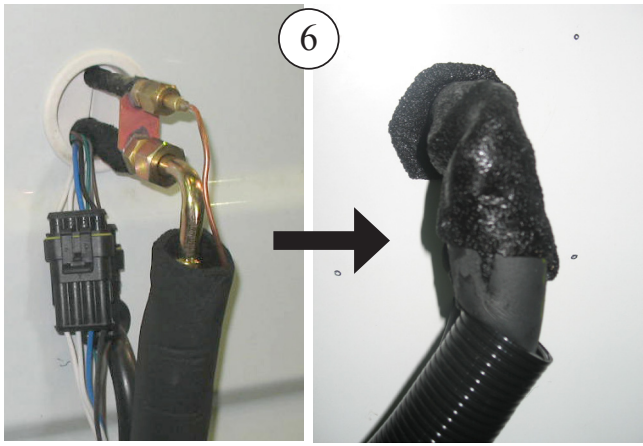
5 Secure the unit with (8) 6/100X30 screws, grower washer and flat washer supported flat.



5a (*)- When not supported on the smooth section, use a 10/20/40 mm separator and 6/100x40/60/70 screw.
SEE DETAILS A



6 Connect cabling and adapters in the evaporator and seal with drip-proof tape.

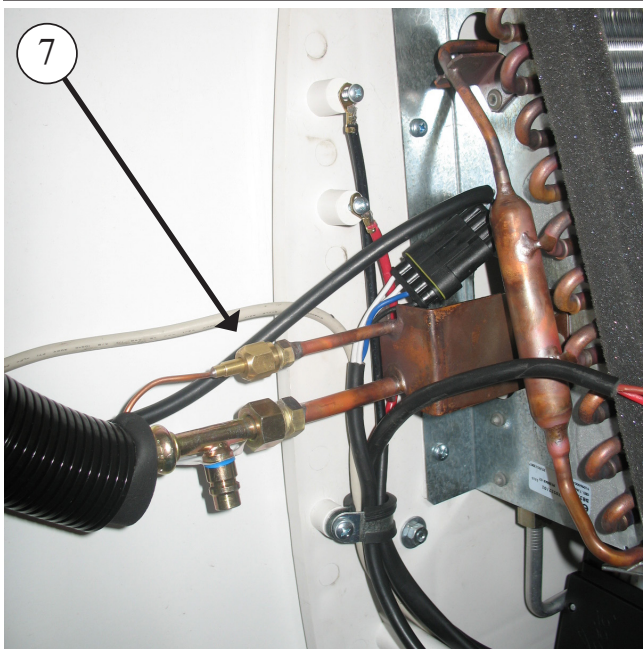


7 Connect the pipes and cabling in the capacitor. If necessary use a 90° connection joint.

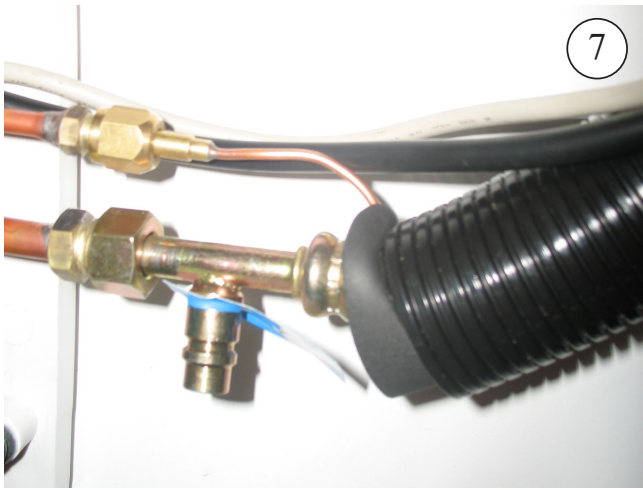


RIGHT SIDE

LEFT SIDE



RIGHT SIDE

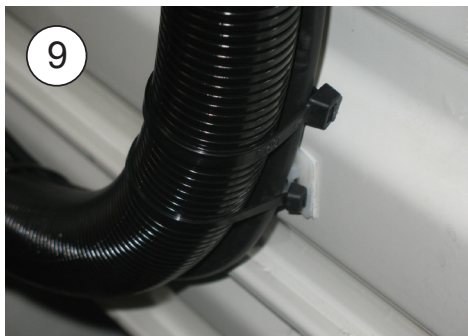


8 Introduce pipe protector with flange, mark and bore at $\varnothing 4$, and secure with threaded metal screws of 4.8x19mm.



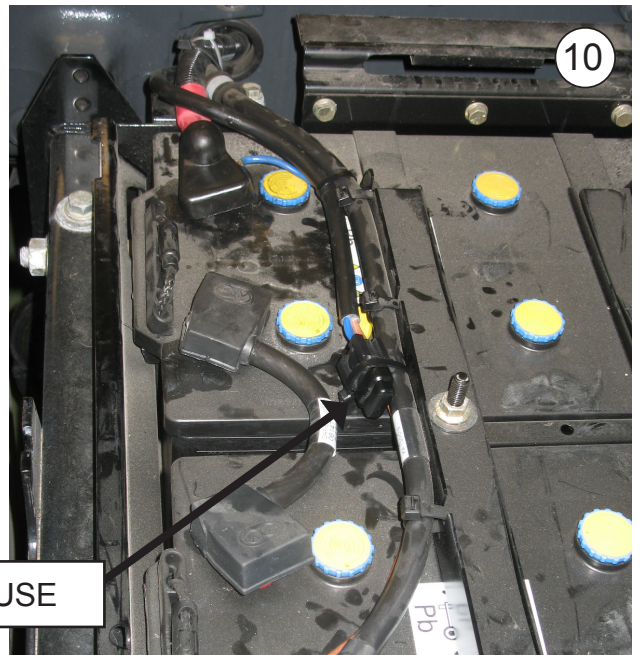
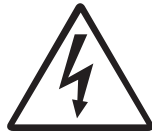
9 Stick the plastic supports and secure the pipe, cabling and wastewater pipe (clean the assembly area).

9A Position drainage valve.



10

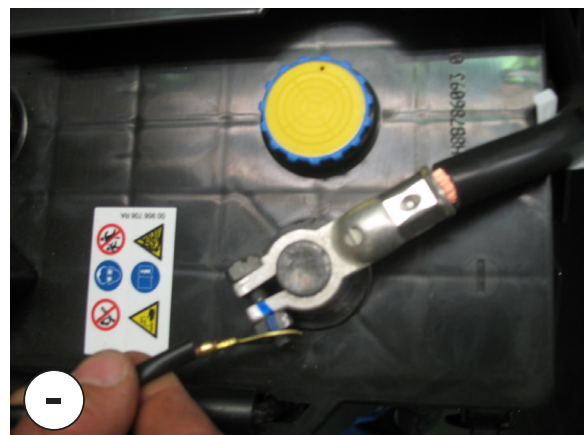
Connect power cabling in battery.
TAKE CARE WITH POLARITY.



FUSE

Important: Due to the complex system of electronic regulation of the equipment, the current connection must be made directly to the vehicle battery, and not to any other point which services other accessories of the vehicle, taking the precaution to not invert the polarity when making the connection (1). Inverting the polarity may result in irreparable damage to the electronics, which is not covered by the warranty.

Important: Check the User Manual before starting up.

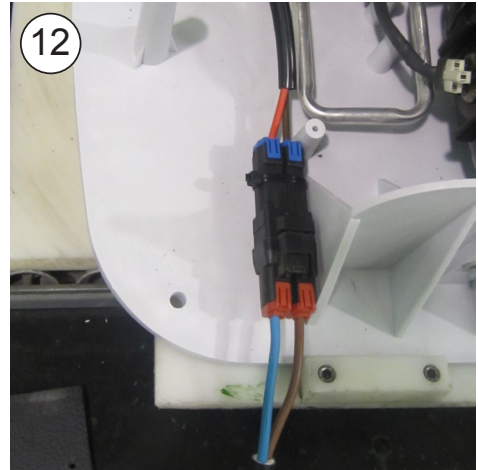


11

Open the cabin and pass the cabling through the most appropriate area towards the capacitor, securing with clamps or flanges.

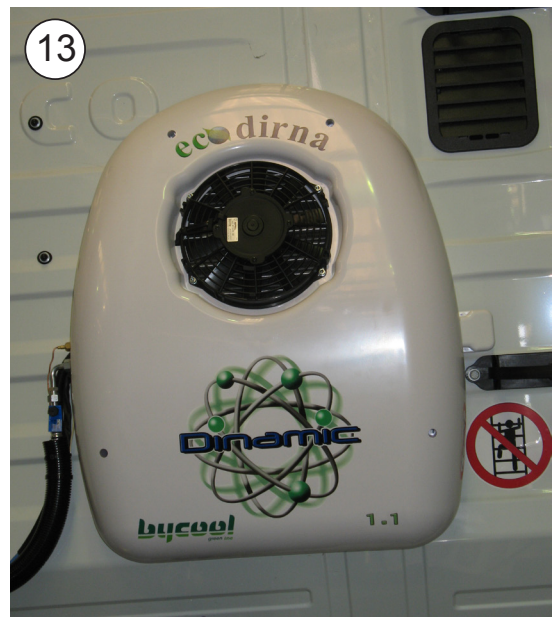
12

Connect the power cabling to the unit.
(-) = cables M and N.
(+) = cables R and Az.



13

Position the cover with the previously dismantled screws.



14

Position adapter protection cover with metal threaded screws 3.1x 11 on the side opposite the pipes.



GAS LOAD:

15 Empty the circuit for at least 30 minutes.

16 Introduce 300 g of gas load R134a and start up the equipment.

17 GENERAL VIEW OF THE CONDENSATION UNIT AND PIPING.



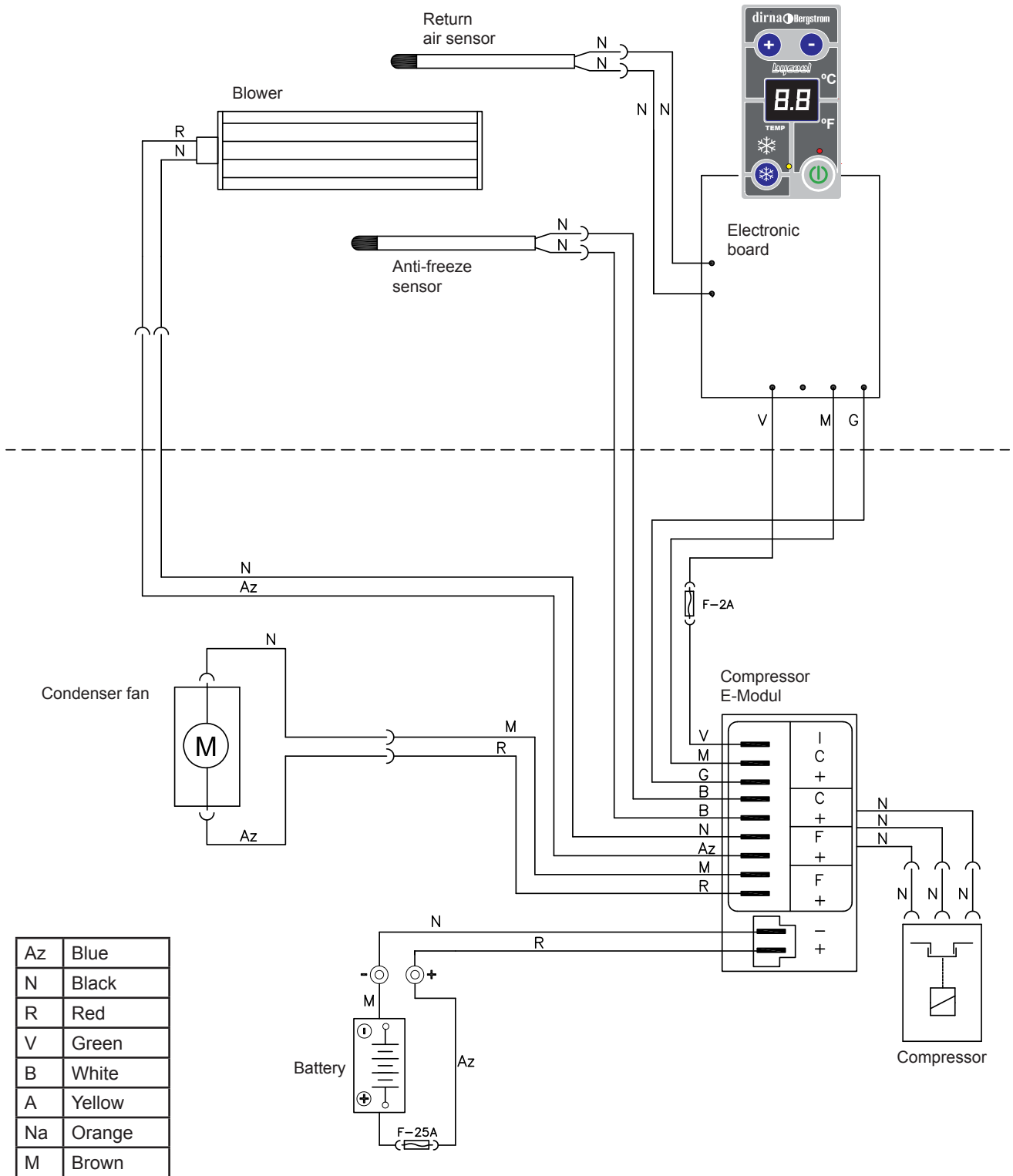
18 GENERAL VIEW OF THE EVAPORATION UNIT.



Electric wiring

IMPORTANT NOTE!

Take care not to invert polarities when connecting the unit to the power supply. If this happens, the control panel does not come on and the unit does not work.



Recommandations Pour Le Montage

- Avant de commencer le montage de l'appareil, prière de lire les instructions et de les suivre attentivement.
- Utiliser les outils convenant à chaque opération.

Electricity

- Déconnecter la clé de contact.
- Déconnecter la batterie avant de commencer le montage.
- Vérifier le câblage des composants électriques et leur correcte installation.

Attention

Si pendant le montage, l'équipement s'incline ou si la cabine est repliée avec l'équipement monté, une fois que ce dernier récupère sa position horizontale, il faudra attendre au moins **60 minutes avant de le remettre en marche.**

Documentation connexe

Instructions de montage	1002430926
Guide de l'utilisateur	1002430924
Solution des problèmes	1002430925
Liste de rechange	1002430922

Les indications relatives aux positions sont:

DROITE: Côté passager

GAUCHE: Côté conducteur

Couple de serrage (N.m)

Filet	Qualité d'acier		Clef
	8.8	10.9	
M6/100	10	13	10

Montage de tuyaux

Couple de serrage (N.m)

Tuyaux	Couple de serrage	Clef
1/4"	13-15	Clef fixe 14mm.
3/8"	15-17	Clef fixe 19mm.

Outils

Cylindre à cannelures et vanne d'arrêt de 10

Tournevis en étoile TOP 10

Clé plate de 10, 11, 14, 17, 19

Clé allen de 6

Clé à tube de Ø10

Broche Ø 4

Perceuse

Broche Ø6

Scie circulaire Ø 19, 22, 48

Ciseaux

Riveteuse M6

Symbologie



Fragile



Attention aux coupures !





Risque électrique

Documentation included


Guide rapide	1002430934
Garantie	220AA10017


Garantie


 L'installateur devra posséder la formation pertinente en air conditionné sur véhicules.

 **dirna Bergstrom, s.l.** ne sera pas responsable des dommages ou des bris dérivés d'une installation ou d'une manipulation incorrecte ni des modifications réalisées sans autorisation expresse par écrit.

 **Quantité de charge de gaz réfrigérant R-134a, à introduire dans le circuit: 300 gr.**

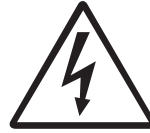
 Voir la **procédure de garantie** du produit au **Diagnostic de problèmes.**

 Voir le **Guide de l'Usager** de l'appareil pour le fonctionnement correcte de la télécommande et du tableau de commande.

 Une fois l'installation terminée, les documents suivants doivent être remis à l'utilisateur: **Guide, Garantie et dépannage de l'utilisateur.**

OPERATIONS PREVUES:

- Démontez la batterie.
- Démontez le panneau intérieur de distribution d'air de l'unité d'évaporation.

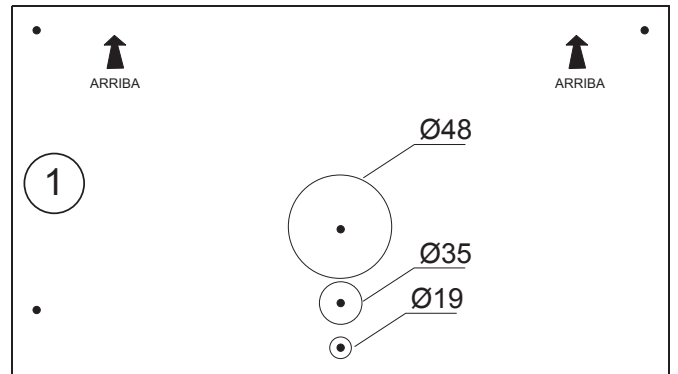


1

PAR L'INTERIEUR DE LA CABINE:

Présenter le modèle fourni et marquer les perçages.

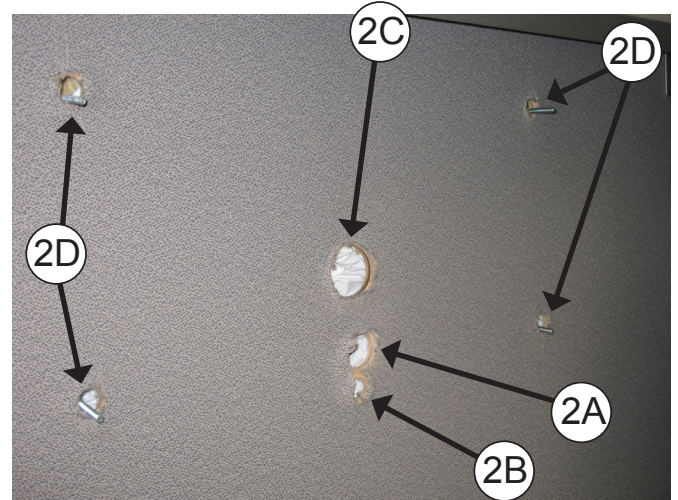
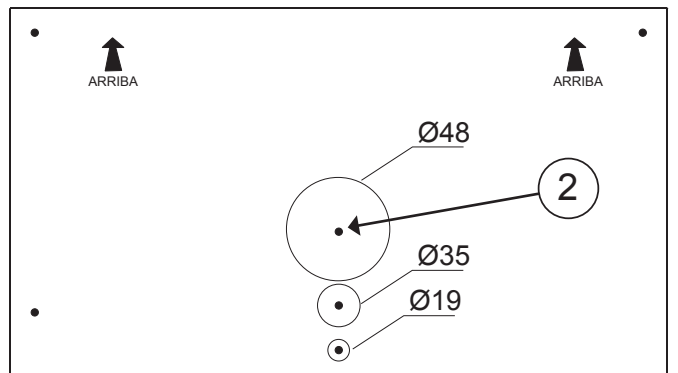
- A-** S'il existe 2 berceaux, présenter le modèle entre les deux.
- B-** S'il existe 1 berceau, présenter modèle au-dessus du berceau.



2

Procéder au perçage Ø4 en traversée avec une broche longue en position de perçage Ø48, ensuite effectuer les perçages suivants.

- A-** Perçage (1) Ø35 seulement dans la tapiserie.
- B-** Perçage (1) Ø19 seulement dans la tapiserie.
- C-** Perçage (1) Ø48 seulement dans la tapiserie
- D-** Perçage (4) Ø22 seulement dans la tapiserie.

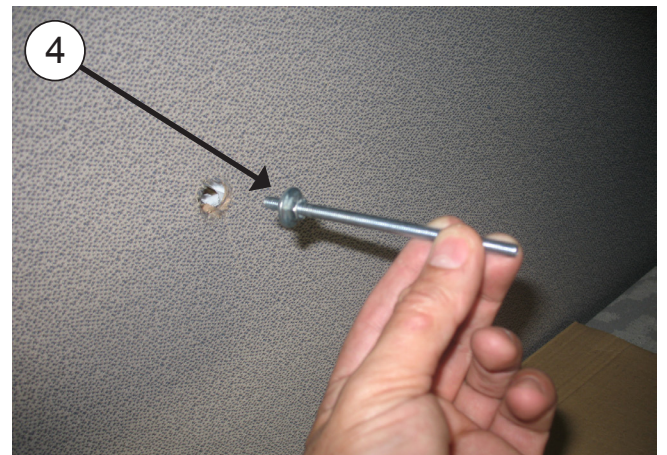


3**PAR L'EXTERIEUR DE LA CABINE:**

Présenter modèle au niveau par l'extérieur, en prenant pour référence le perçage effectué Ø4 et marquer et effectuer les perçages restant.

**4**

Introduire par l'intérieur des goujons M6 avec écrou et rondelle comme indiqué.

**5**

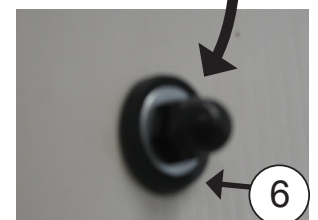
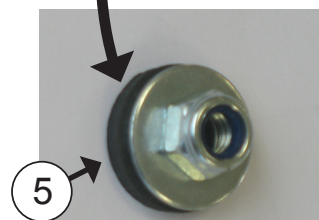
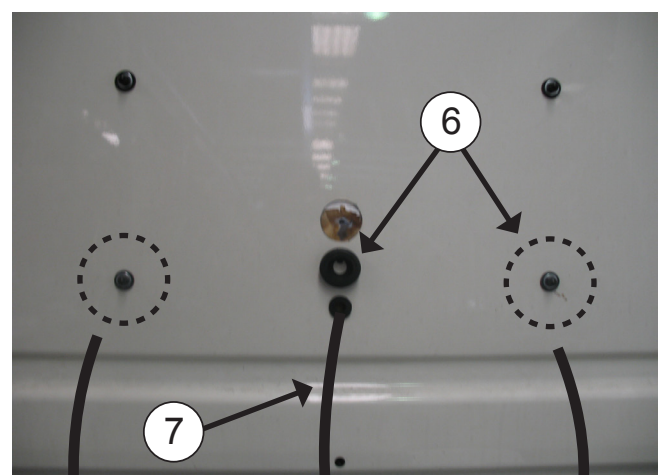
Fixer par l'extérieur avec une rondelle en caoutchouc, plane et écrou auto-serrant en fixant par la partie intérieure avec la clé à tube 10.

6

Placer les bouchons des écrous et traversées.

7

Passer le tuyau d'évacuation par le perçage Ø19, la traversée, vers l'intérieur de la cabine.



OPERATIONS VALABLES UNIQUEMENT POUR LE MODELE RENAULT MAGNUM

OPERATIONS PRELIMINAIRES:

- Déconnecter la batterie.
- Démontez le couvercle de l'unité d'évaporation.



1

PAR L'EXTERIEUR DE LA CABINE:

Présenter le modèle fourni selon les cotes.

2

Marquer tous les perçages.

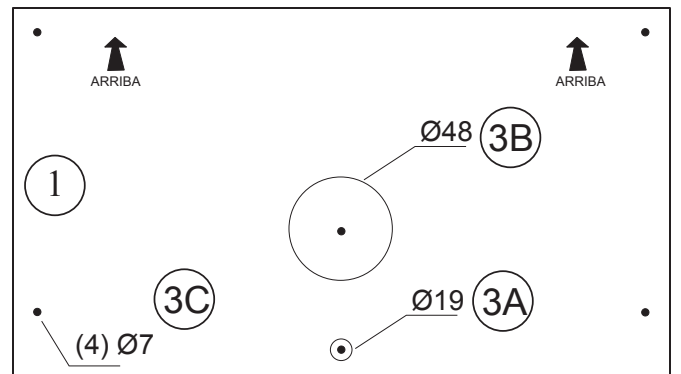
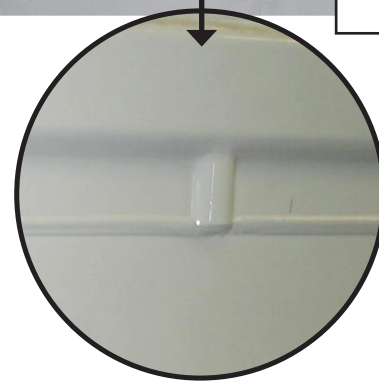
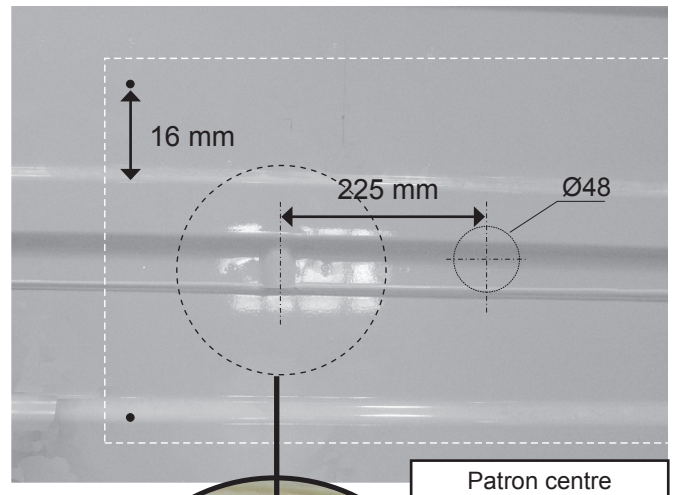
3

Effectuer perçages Ø4 traversée avec broche longue en position perçage Ø48, puis effectuer les perçages suivants:

A- perçage (1) Ø19

B- perçage (1) Ø48

C- perçage (4) Ø7



4

PAR L'INTERIEUR DE LA CABINE:

Présenter le modèle fourni et marquer les perçages de Ø48.

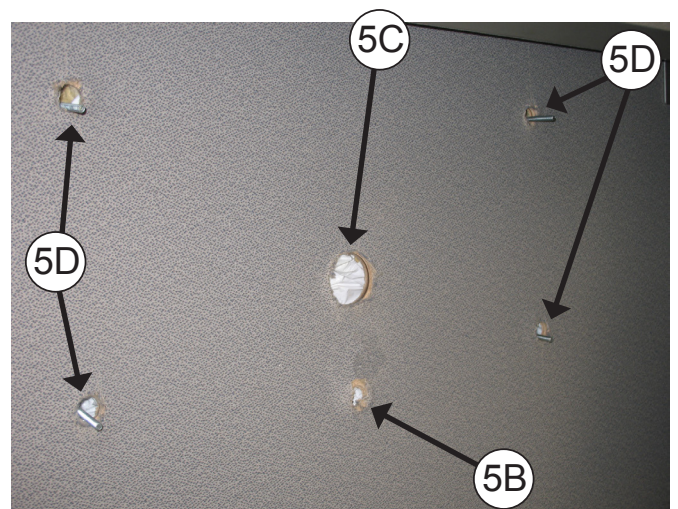
5

Effectuer les perçages suivants:

B- Perçage (1) Ø19 uniquement dans la tapiserie.

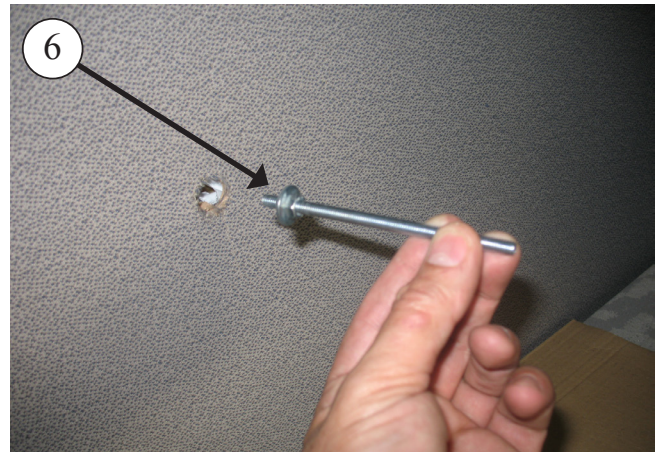
C- Perçage (1) Ø48 uniquement dans la tapiserie.

E- Perçage (4) Ø22 uniquement dans la tapiserie.



OPERACIONES SÓLO VÁLIDAS PARA MODELOS RENAULT MAGNUM**6****PAR L'EXTERIEUR DE LA CABINE:**

Introduire par l'intérieur des goujons M6 avec écrou et rondelle comme il est indiqué.

**7**

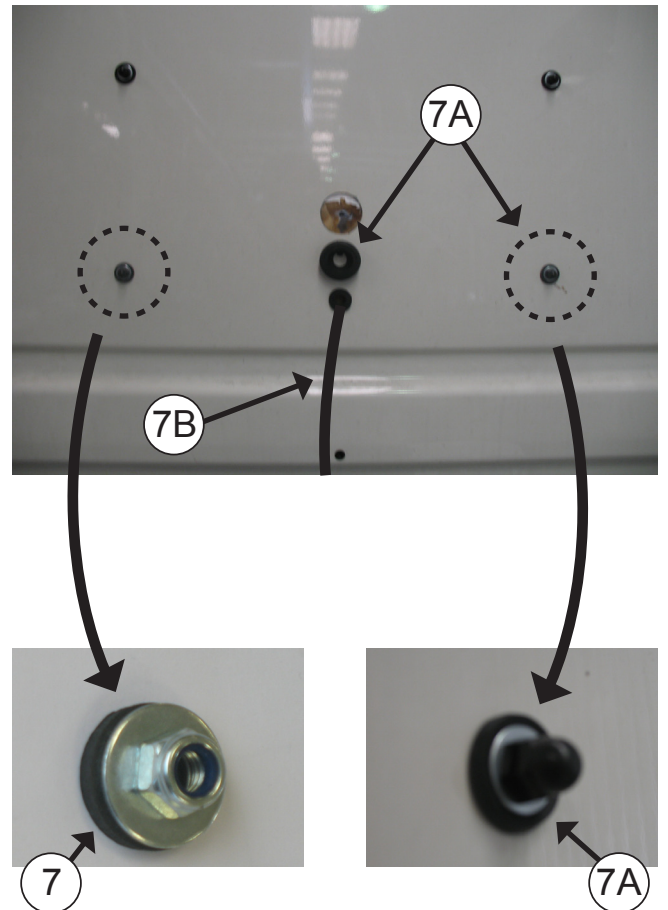
Fixer par l'extérieur avec une rondelle en caoutchouc, plane et écrou auto-serrant en fixant par l'intérieur avec une clé à tube 10.

7A

Placer les bouchons d'écrous et traversées.

7B

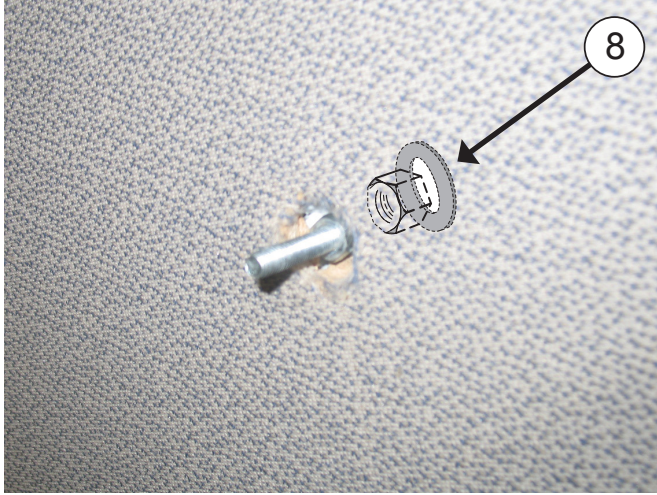
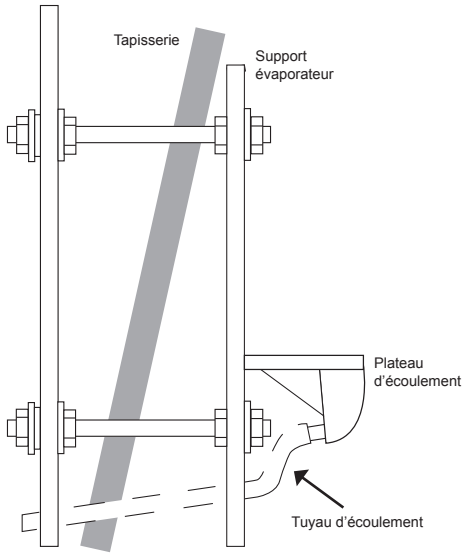
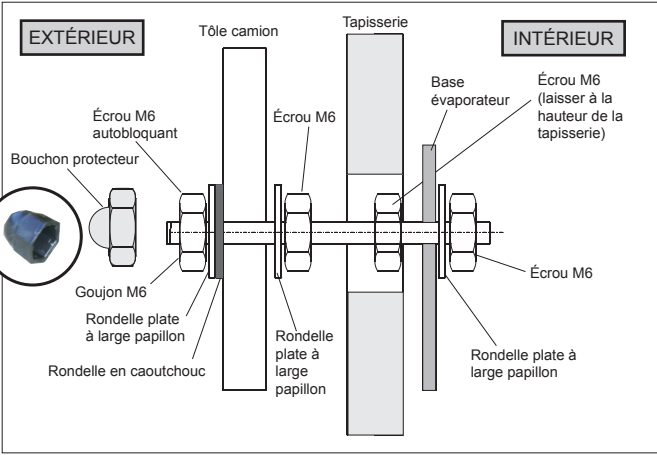
Passer le tuyau d'évacuation par le perçage Ø19, la traversée vers l'intérieur de la cabine.



OPERATIONS VALABLES POUR TOUS LES MODÈLES

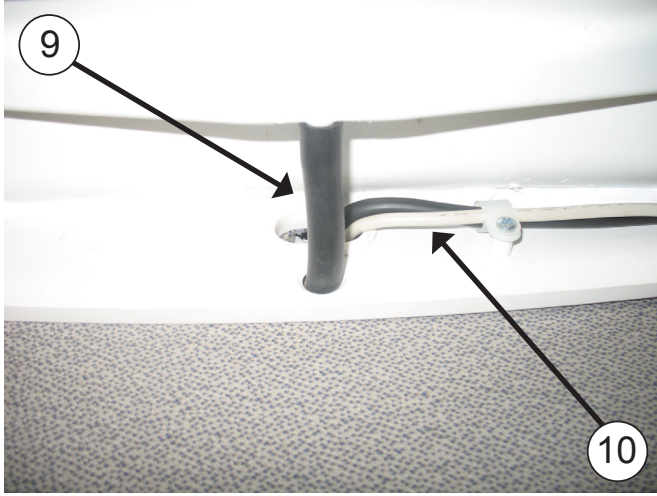
8 Sur les goujons, serrer (4) écrous M6 avec (4) rondelles planes Ø 6 en les laissant à ras de la tapisserie.
VOIR SCHEMA JOINT

⚠ TRÈS IMPORTANT
 Dans le cas des tapisseries qui présentent une inclinaison, l'ensemble évaporateur doit rester vertical pour éviter que l'eau de condensation ne tombe sur la tapisserie.

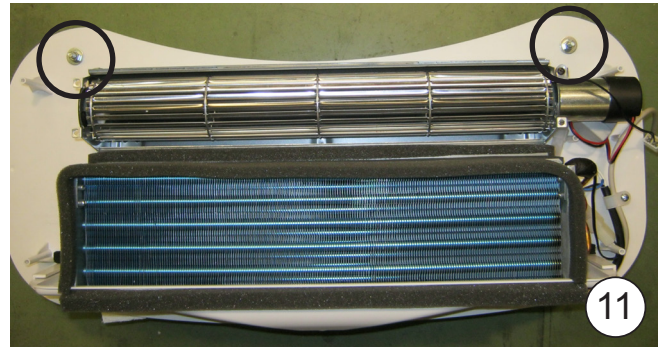
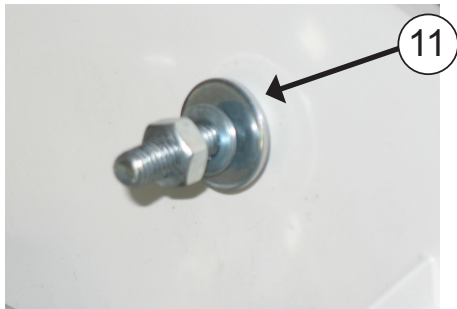



9 Passer le tuyau d'évacuation par le perçage de la base de l'évaporateur et connecter le bac.

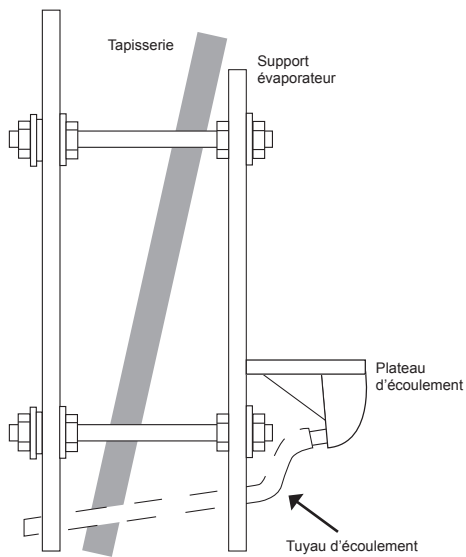
10 Passer les câblages par le perçage Ø 35 vers l'extérieur.



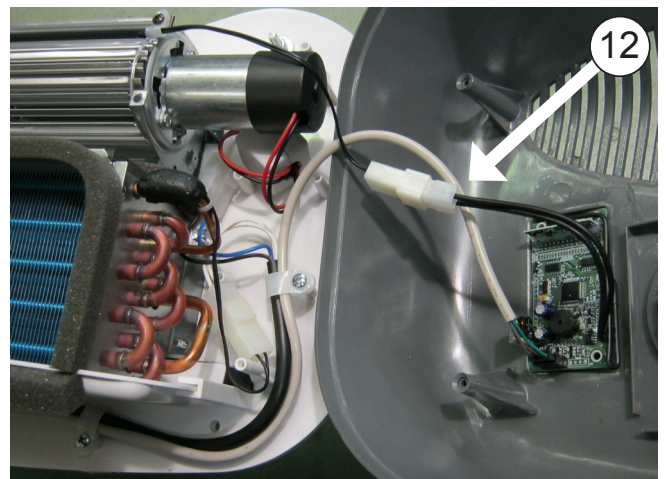
11 Introduire la base évaporateur sur goujons et fixer avec (4) rondelles planes (4) grower et (4) écrous M6.



 **TRÈS IMPORTANT**
L'écoulement doit présenter une chute suffisante pour éviter que l'eau atteigne la tapisserie.



12 Connecter le capteur d'air de retour et le câble de communications.



13

Fixer à nouveau le panneau intérieur de distribution d'air avec des vis, en utilisant un tournevis aimanté et placer des bouchons.

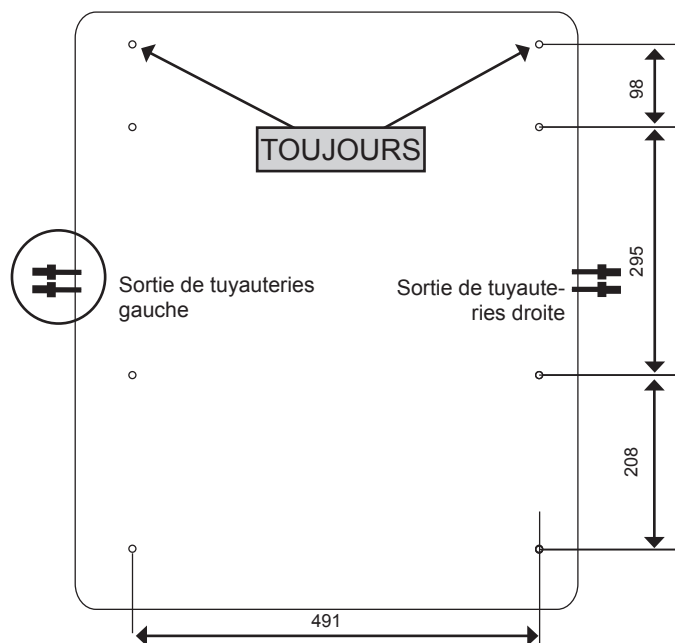


MONTAGE DU CONDENSATEUR:

Important: En fonction du véhicule, il est possible de placer les sorties des tuyauteries par le côté droit ou par le côté gauche.

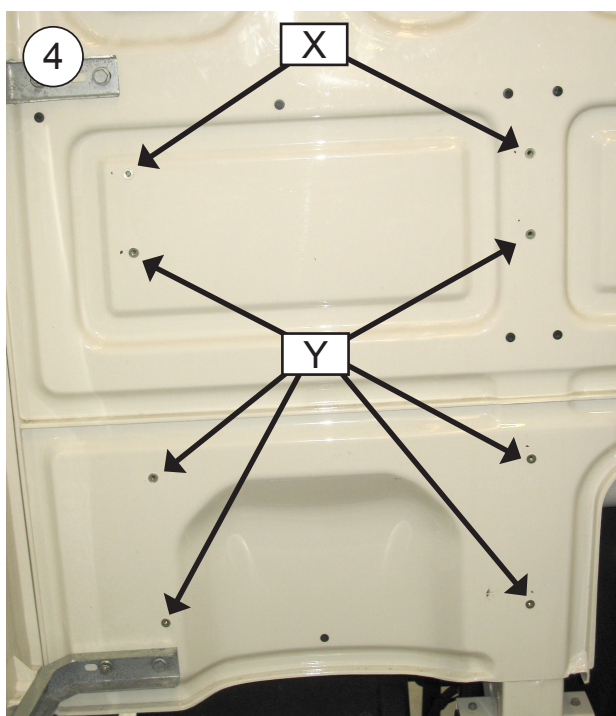
1 Nota: Quand l'installation est réalisée par une seule personne, marquer les perçages avec les mesures indiquées, en tenant compte de la longueur de tuyauterie (de l'évaporateur au condensateur).

2 Démontez le couvercle et lâchez le câblage du ventilateur du condensateur.



3 Si cette opération est effectuée par 2 personnes. Présenter la base du condensateur en la situant par la partie arrière de la cabine qui conviendra le mieux, **en tenant compte de la longueur de la tuyauterie depuis la sortie de l'évaporateur au condensateur**, et établir un minimum de 6 perçages.

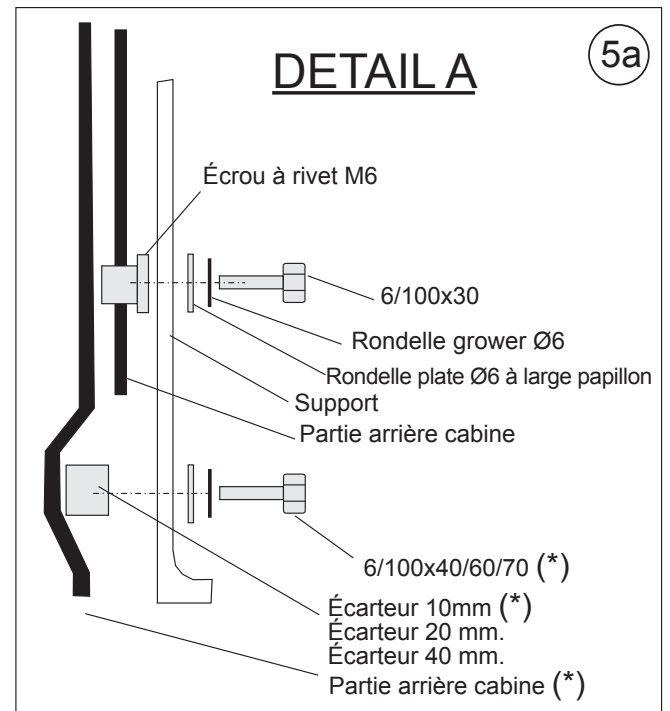
4 Effectuer d'abord les (2) perçages supérieurs (X) à $\varnothing 9$, placer les écrous rivet de M6 et positionner la base avec des vis 6/100x30 marquer et effectuer le reste des perçages (Y), placer les écrous.



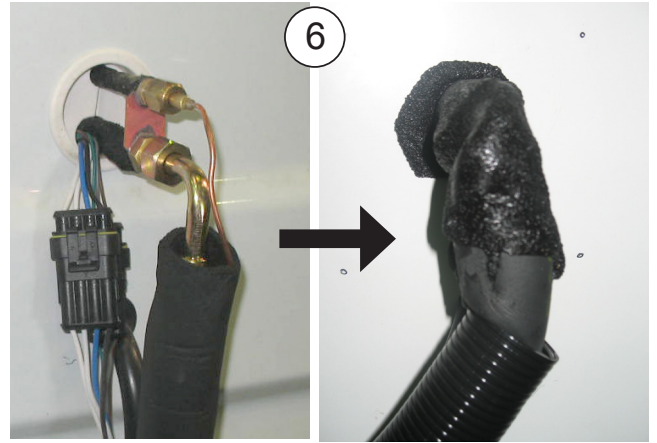
5 Fixer l'unité avec (8) vis 6/100X30 et une rondelle grower plate si la surface d'appui est plate.



5a (*)- Dans les cas où l'appui ne se fait pas sur la partie lisse, placer un séparateur de 10/20/40 mm et une vis 6/100x40/60/70.
VOIR DETAIL A

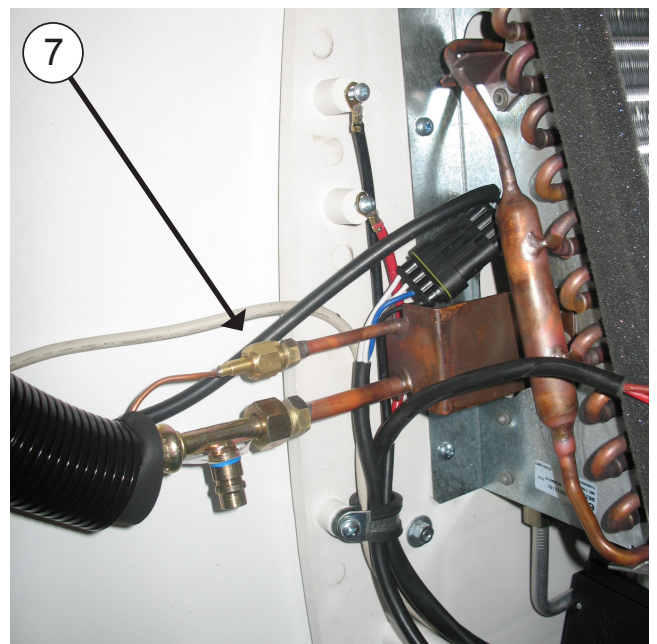
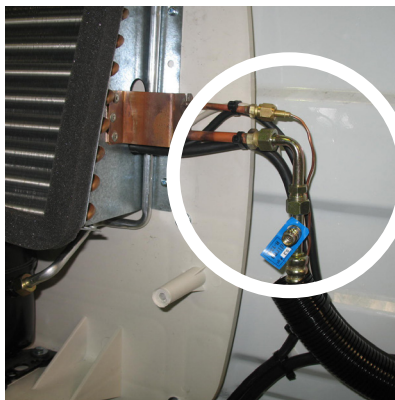


6 Connecter le câblage et les raccords sur l'évaporateur et sceller avec ruban anti-égouttement.



7 Connecter les tuyaux et le câblage dans l'unité condensatrice. Si besoin, placer un raccord de connexion 90°.

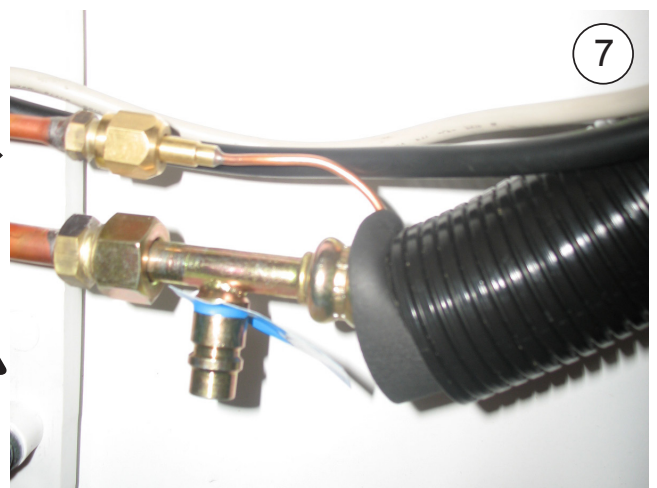
CÔTE GAUCHE



CÔTE DROIT



CÔTE DROIT

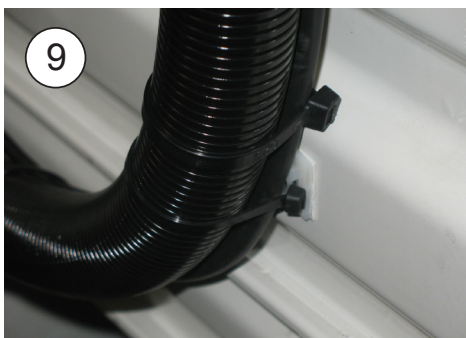


8 Présenter le protecteur de tuyaux avec joint, marquer et percer à Ø4 puis fixer avec des vis taraudeuse à tôle 4,8x19mm.



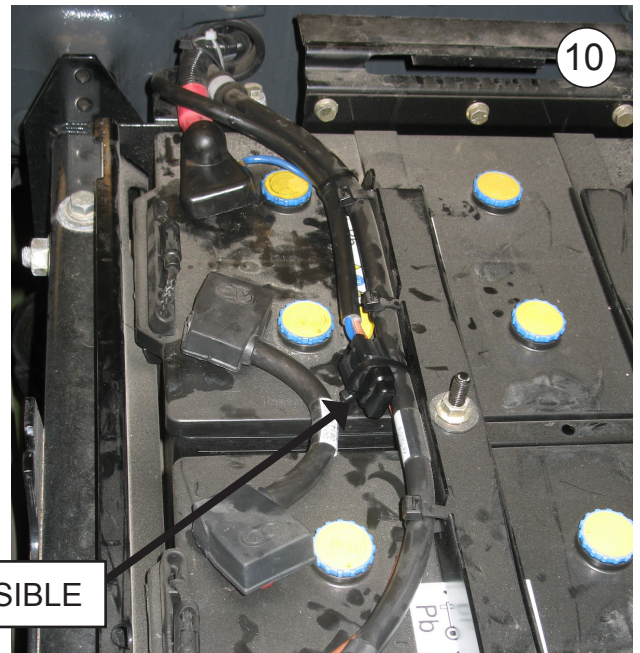
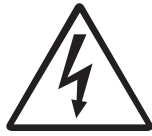
9 Coller les supports en plastique et fixer la tuyauterie, les câblages et le tuyau d'évacuation (nettoyer zone de montage).

9A Placer vanne de drainage.



10

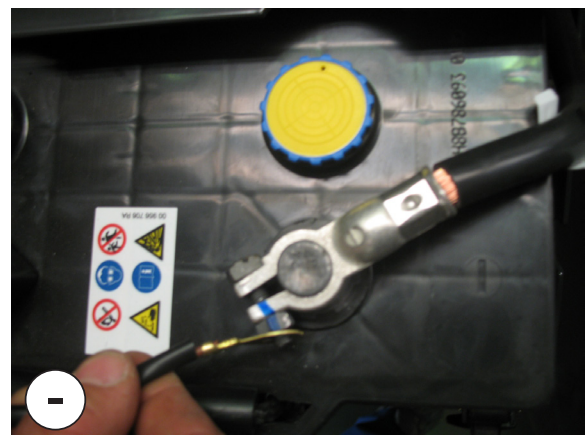
Connecter sur batterie câblage d'alimentation
ATTENTION À LA POLARITE



FUSIBLE

Important: En raison de la complexité du système de réglage électronique de l'équipement, la prise de courant doit se réaliser directement sur la batterie du véhicule, et non sur un point quelconque desservant d'autres accessoires du véhicule, en veillant à ne pas inverser la polarité lors de la connexion (1). Si la polarité est inversée, des dommages irréparables, qui ne sont pas couverts par la garantie, peuvent se produire dans l'électronique.

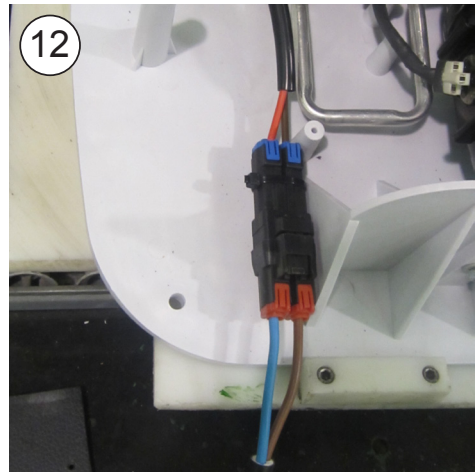
Important: Pour la mise en marche, consulter le Manuel de l'Usager.

**11**

Abattre la cabine et passer le câblage à travers la zone la plus adéquate vers l'unité condensatrice. Fixer avec des serre-câbles ou des brides.

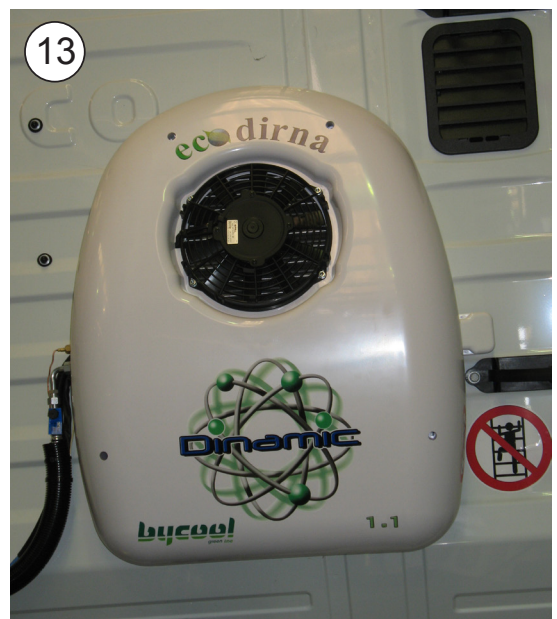
12

Connecter le câblage d'alimentation à l'unité.
 (-) = câbles M et N.
 (+) = câbles R et Az.



13

Placer le couvercle à vis démonté précédemment.



14

Placer le couvercle de protection de raccords avec des vis taraudeuses à tête 3,1x 11 du côté opposé à la tuyauterie.



CHARGE DE GAZ:

15 Vider le circuit durant au moins 30 minutes.

16 Introduire 300 gr de charge de gaz R134a et mettre l'équipement en marche.

17 VUE GENERALE DE L'UNITÉ DE CONDENSATION ET TUYAUTERIE.



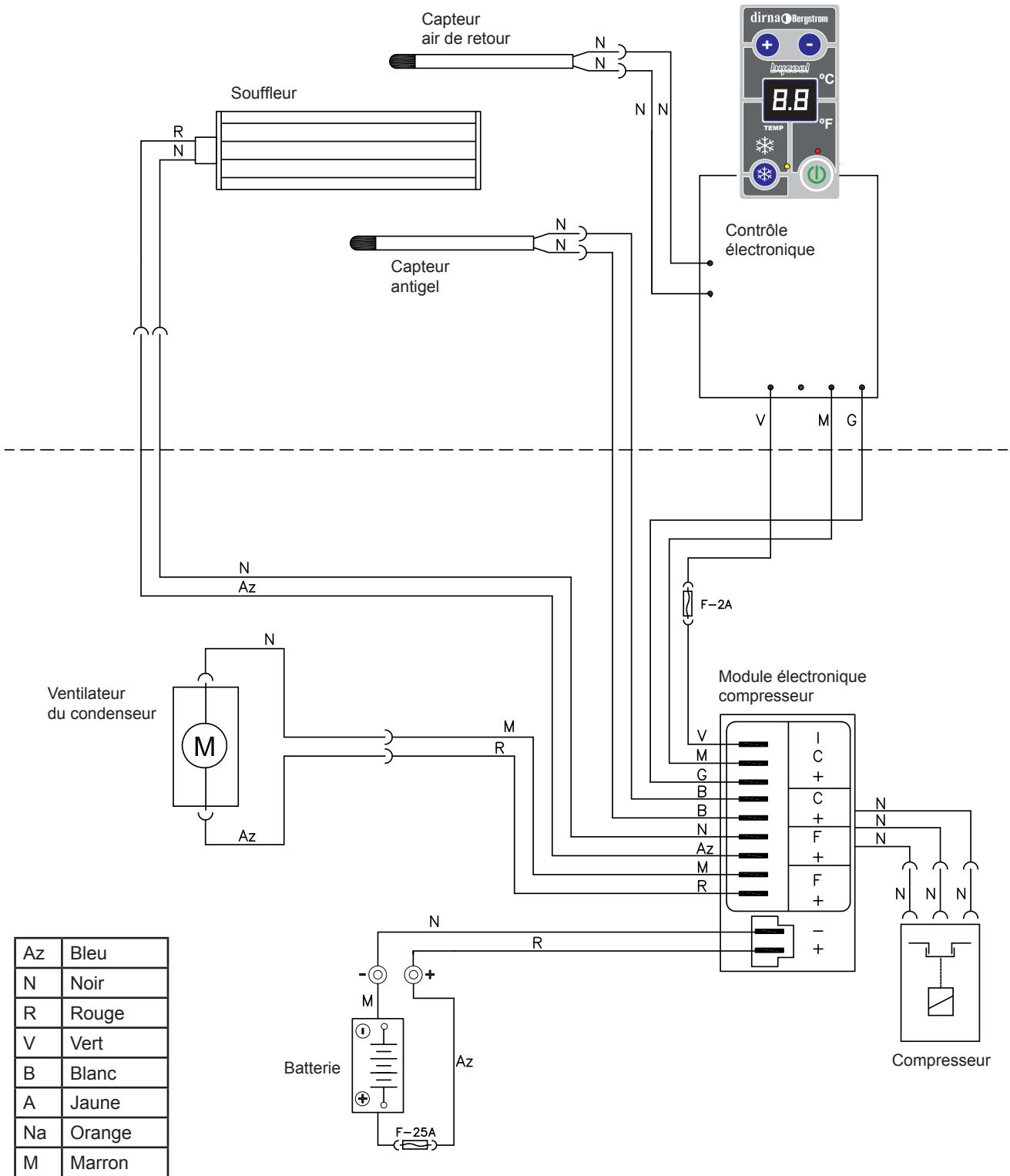
18 VUE GÉNÉRALE DE L'UNITÉ ÉVAPORATRICE.



Schéma électrique

AVIS IMPORTANT!

Attention de ne pas inverser les polarités au moment de connecter l'alimentation à l'équipement. Si cela se produisait, la plaque de commande ne s'allumerait pas et l'équipement ne fonctionnerait pas.



Empfehlungen Zur montage

- Vor und während der Montage bitte diese Anweisungen lesen und beachten.
- Benutzen Sie für jeden Arbeitsschritt die geeigneten Werkzeuge.

Elektrizität

- Zündschlüssel abziehen.
- Vor Montagebeginn die Batterie abklemmen.
- Den ordnungsgemäßen Anschluss und die korrekte Installation der Elektrokomponenten überprüfen.

Achtung

Sollte das Gerät während des Einbaus ins Schwanken geraten oder die Kabine umkippen, muss man von dem Moment, wo sich das Gerät wieder in waagerechter Stellung befindet, mindestens 60 Minuten abwarten bis es in Betrieb genommen werden kann.

Zugehörige Dokumentation

Montageanweisungen	1002430926
Benutzerleitfaden	1002430924
Fehlerdiagnose	1002430925
Ersatzteilliste	1002430922

Angaben zur Position:
RECHTS: Beifahrerseite
LINKS : Fahrerseite

Anzugsdremoment (N.m)

Gewinde	Stahlqualität		Maulweite
	8.8	10.9	
M6/100	10	13	10

Schläucheanleitung

Fitting Driving Torque

Schläuche	Fitting Driving Torque	Werkzeug
1/4"	13-15	14er-Maulschlüssel
3/8"	15-17	19er-Maulschlüssel

Werkzeuge

- Knarre mit Absperrhahn 10
- Kreuzschraubendreher TOP 10
- Schraubenschlüssel 10, 11, 14, 17, 19
- Innensechskantschlüssel 6
- Rohrschlüssel Ø10
- Bohrer Ø 4
- Bohrmaschine
- Bohrer Ø6
- Kreissäge Ø 19, 22, 48
- Schere
- Nietmaschine M6

Symbologie



Fragile



Attention aux coupures !





Risque électrique

Mitgelieferte unterlagen

Kurzführer	1002430934
Garantie	220AA10017


Warnhinweise


 Der Installateur muss im Bereich Fahrzeug-Klimaanlagen ausreichend geschult sein.

 **dirna Bergstrom, s.l.** übernimmt keine Verantwortung für Schäden oder Brüche aufgrund einer nicht ordnungsgemäßen Installation oder Bedienung des Geräts oder den Austausch von Teilen bzw. Umbauten, die ohne die erforderliche schriftliche Genehmigung durchgeführt wurden.

 **In den Kühlkreis zu leitende Füllmenge Kühlgas R-134a: 300 g**

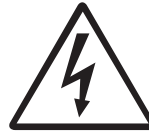
 Siehe **Garantieverfahren** des Produkts in der **Fehlerdiagnose**.

 Siehe **Benutzerleitfaden** des Geräts für den ordnungsgemäßen Betrieb der Fernbedienung und des Bedienfelds.

 Die folgenden Unterlagen müssen dem Benutzer nach der Installation ausgehändigt werden: **Benutzerleitfaden, Garantie und Fehlerdiagnose**.

VORBEREITENDE TÄTIGKEITEN:

- Batterie abschalten.
- Innere Luftverteiltertafel des Verdampfers abnehmen.



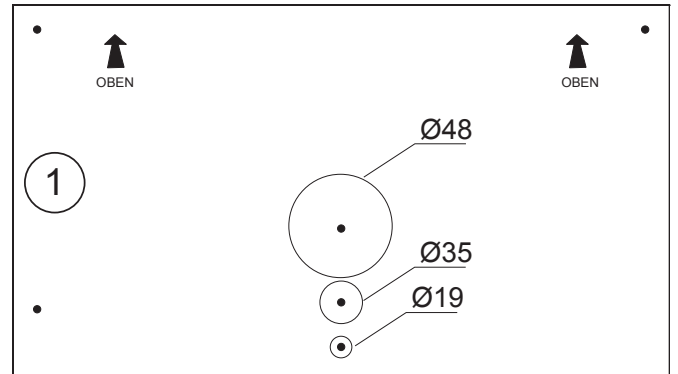
1

AUF DER KABINENINNENSEITE:

Mitgelieferte Vorlage auflegen und Bohrlöcher markieren.

A- Sollten 2 Betten vorhanden sein, die Vorlage zwischen beiden anbringen.

B- Ist nur 1 Bett vorhanden, Vorlage über diesem auflegen.



2

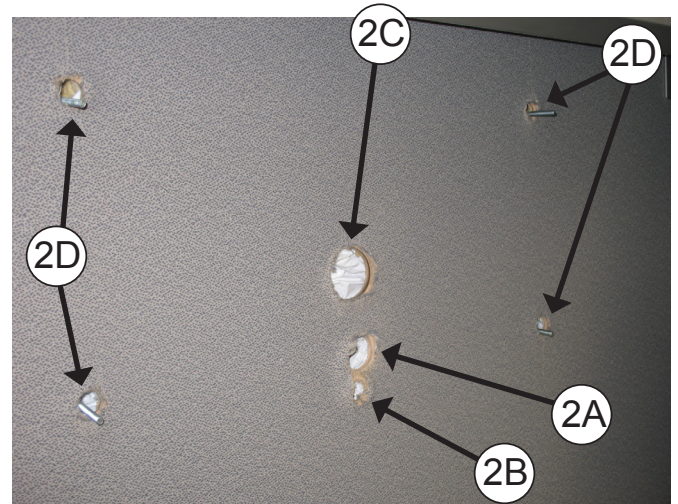
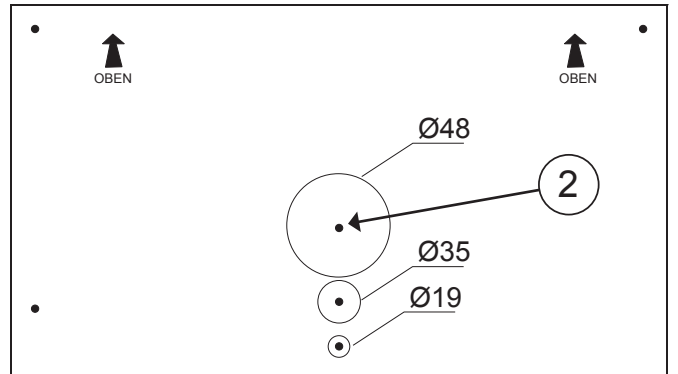
Durchgangsbohrung Ø4 mit langem Bohrer in Position der Bohrung Ø48 durchführen, danach die folgenden Bohrungen durchführen.

A- (1) Ø35 nur im Bezug durchführen

B- (1) Ø19 nur im Bezug durchführen

C- (1) Ø48 nur im Bezug durchführen

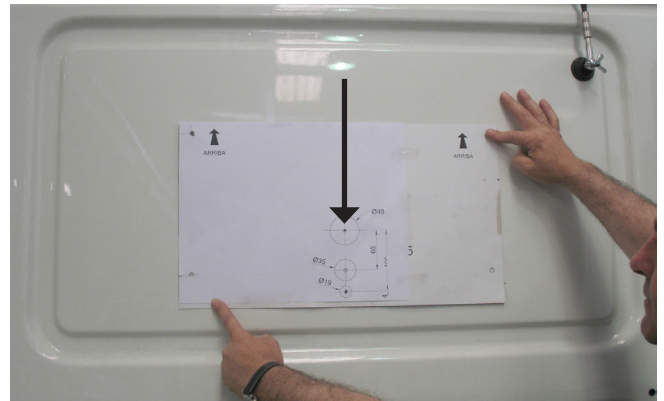
D- (4) Ø22 nur im Bezug durchführen



3

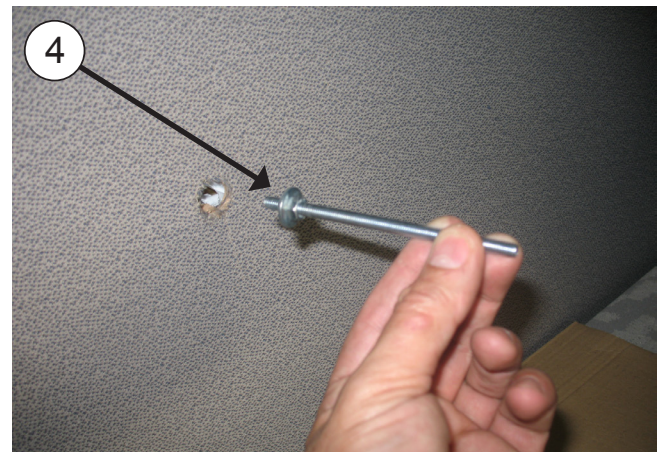
AUF DER KABINENAUSSENSEITE:

Vorlage auf gleicher Höhe von der Außenseite auflegen, dabei als Referenz die durchgeführte Ø4 Bohrung nehmen, markieren und die restlichen Bohrungen durchführen.



4

Von Innen her Stiftschrauben M6 mit Mutter und Unterlegscheibe wie angegeben einführen.



5

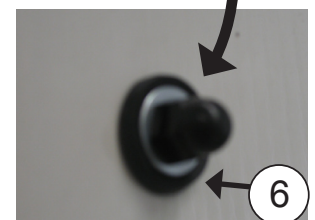
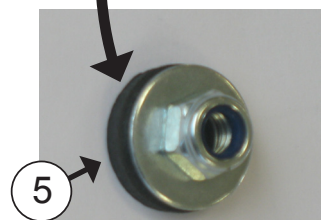
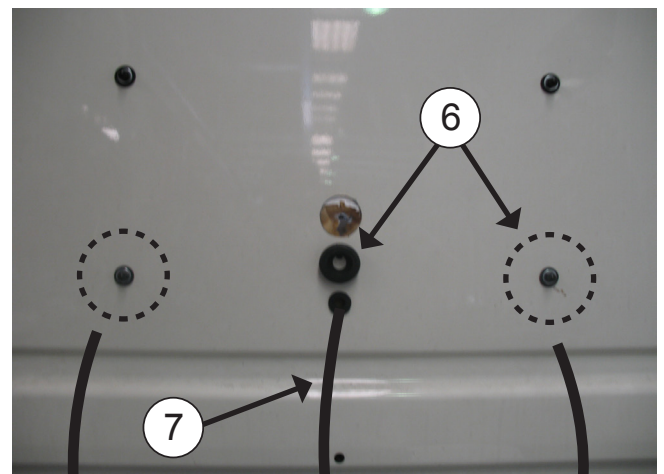
Von Außen her mit Gummiunterlegscheibe, Flachscheibe und selbstsichernder Spannmutter befestigen, dabei von Innen her mit Rohrschlüssel 10 halten.

6

Mutterkappen und Wanddurchführung anbringen.

7

Abflussschlauch durch Bohrung Ø19, und Wanddurchführung ins Innere der Kabine führen.



NUR BEI DEN MODELLEN RENAULT MAGNUM DURCHZUFÜHRENDE TÄTIGKEITEN

VORBEREITENDE TÄTIGKEITEN:

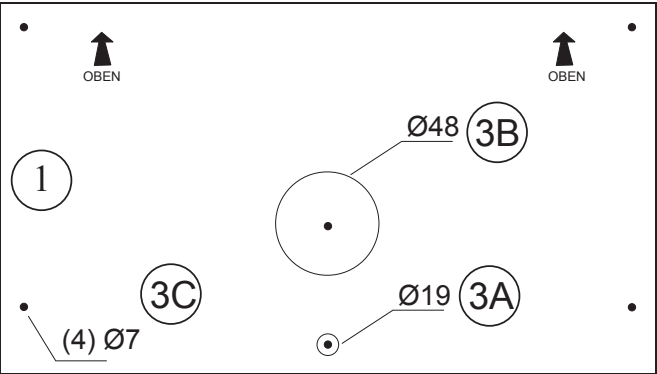
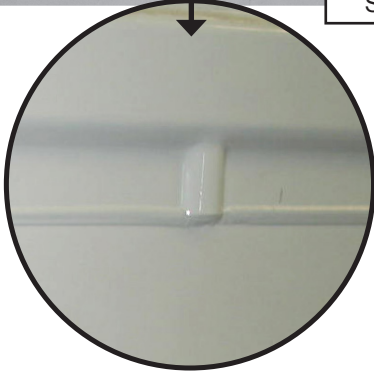
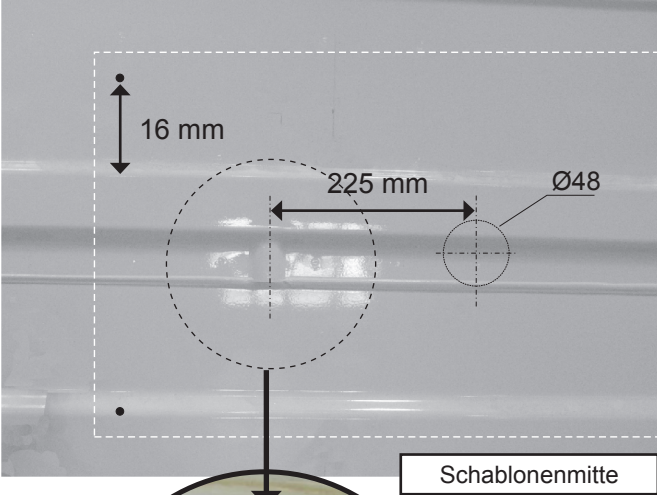
- Batterie abschalten.
- Abdeckung Verdampferereinheit abnehmen.



1 AUF DER KABINENAUSSENSEITE:
Mitgelieferte Vorlage gemäß Maßen auflegen.

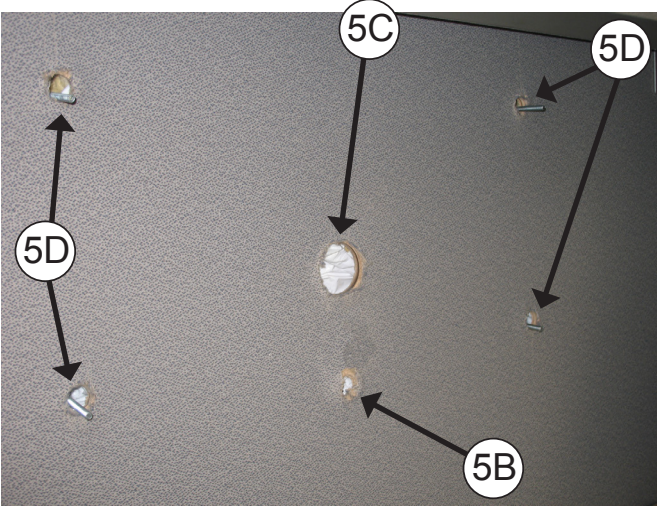
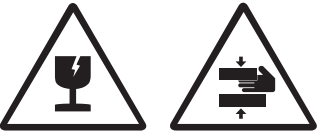
2 Alle Bohrungen markieren.

3 Durchgangsbohrung Ø4 mit langem Bohrer in Position der Bohrung Ø48 durchführen, danach die folgenden Bohrungen durchführen:
A. (1) Ø19 durchführen
B. (1) Ø48 durchführen
C. (4) Ø7 durchführen



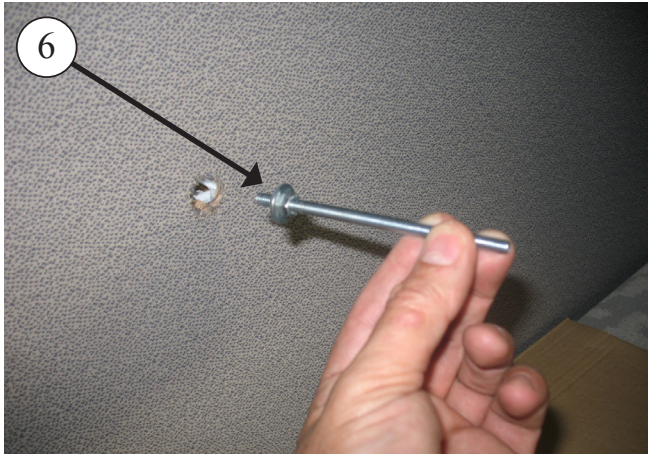
4 AUF DER KABINENINNENSEITE:
Mitgelieferte Vorlage auflegen und Bohrung Ø48 markieren.

5 Die folgenden Bohrungen durchführen:
B- (1) Ø19 nur im Bezug durchführen
C- (1) Ø48 nur im Bezug durchführen
E- (4) Ø22 nur im Bezug durchführen



NUR BEI DEN MODELLEN RENAULT MAGNUM DURCHZUFÜHRENDE TÄTIGKEITEN

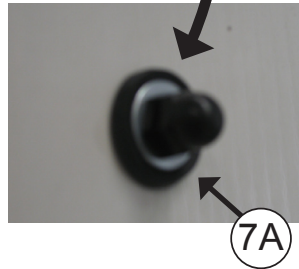
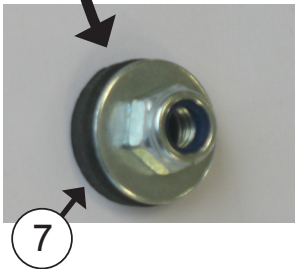
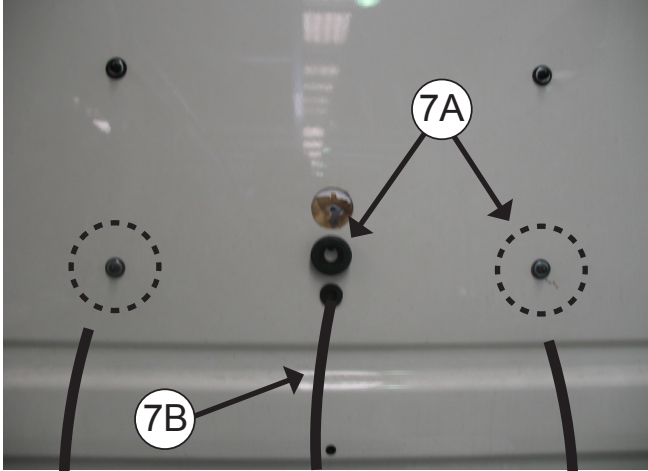
6 **AUF DER KABINENAUSSENSEITE:**
 Von Innen her Stiftschrauben M6 mit Mutter und Unterlegscheibe wie angegeben einführen.



7 Von Außen her mit Gummiunterlegscheibe, Flachscheibe und selbstsichernder Spannmutter befestigen, dabei von Innen her mit Rohrschlüssel 10 halten.

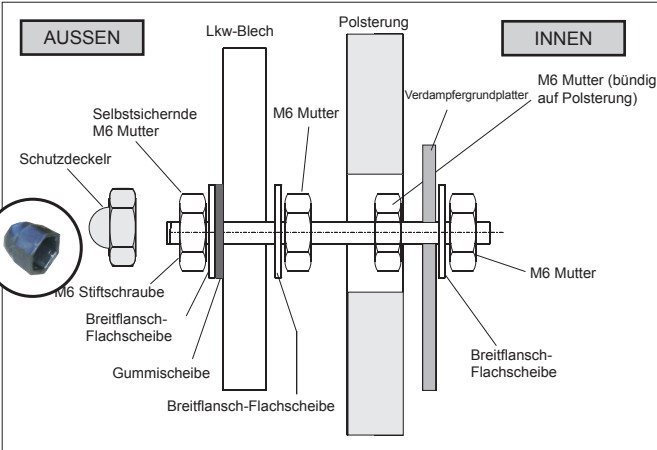
7A Mutterkappen und Wanddurchführung anbringen.


7B Abflussschlauch durch Bohrung Ø19, und Wanddurchführung ins Innere der Kabine führen.

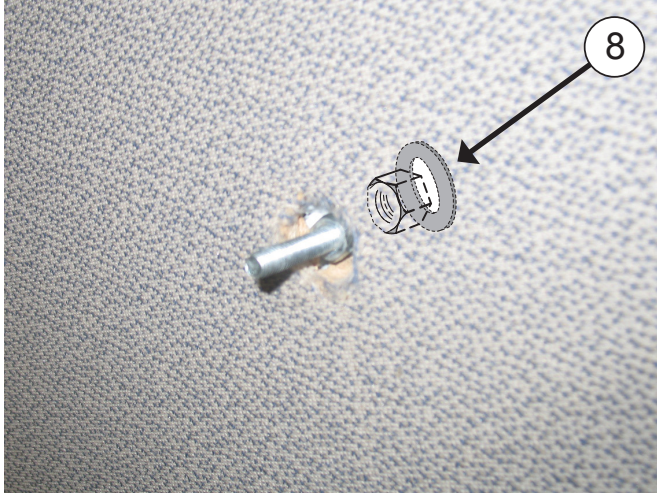
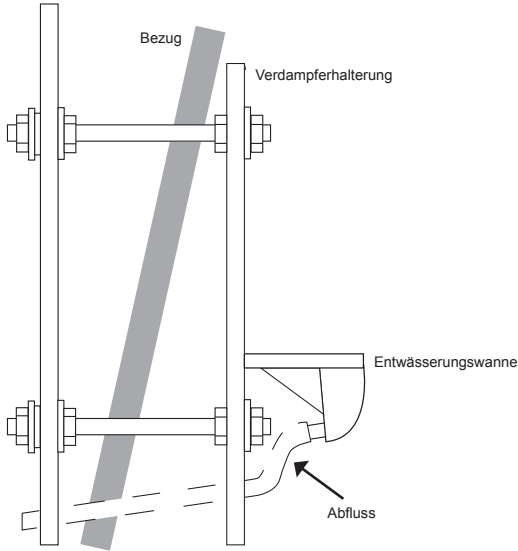


BEI ALLEN MODELLEN DURCHZUFÜHRENDE TÄTIGKEITEN

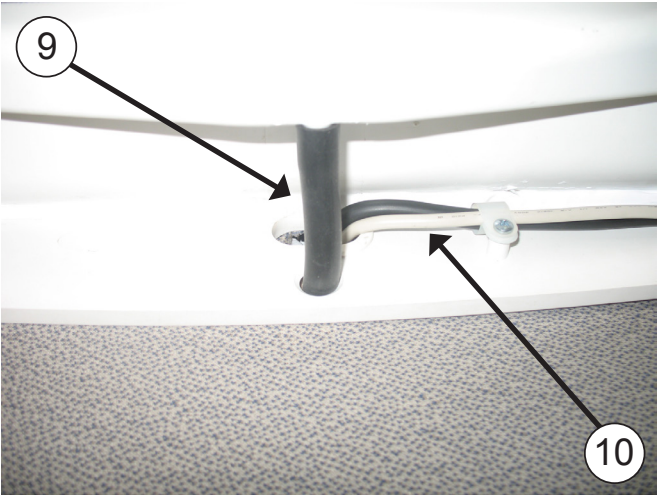
8 (4) Muttern M6 mit (4) Flachscheiben auf die Stiftschrauben schrauben, wobei die Flachscheiben sich auf Höhe des Bezugs befinden müssen.
SIE BEILIEGENDE ZEICHNUNG



 **WICHTIGER HINWEIS**
 Für Polsterneigung des Verdampfers eingestellt hat einen senkrechten zu verhindern Kondenswasser fällt auf den Polster sein.



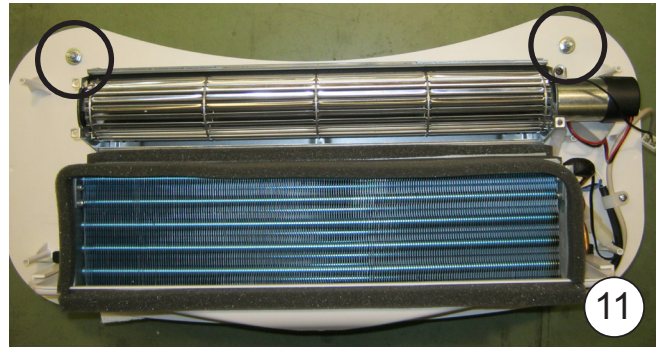
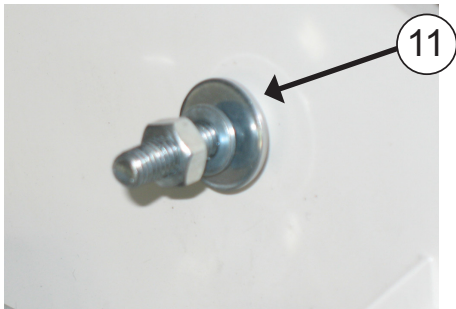
9 Abflussschlauch durch die Bohrung der Verdampferbasis führen und an den Behälter anschließen.




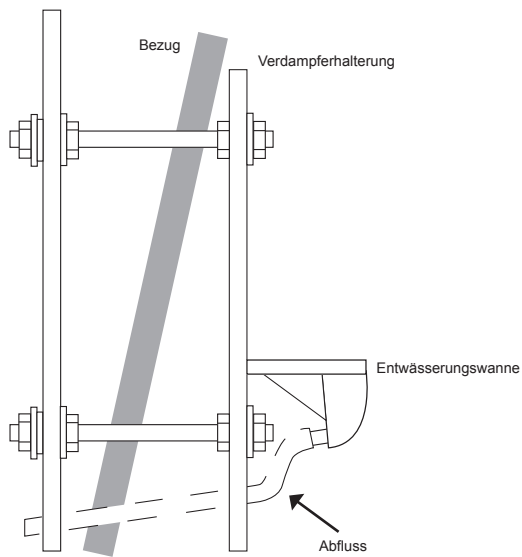
10 Kabel durch die Bohrung Ø 35 nach Außen führen.



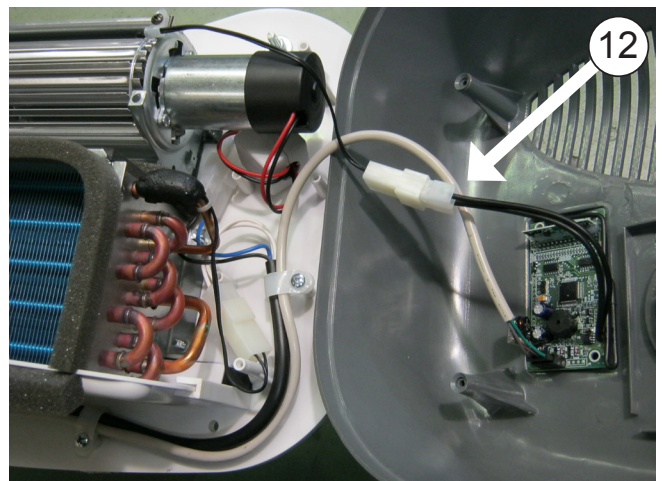
11 Verdampferbasis auf Stiftschrauben stellen und mit (4) Grower-Scheiben (4) und (4) Muttern M6 befestigen.



 **WICHTIGER HINWEIS**
 Der Abfluss muss ein ausreichendes Gefälle haben, damit das Wasser nicht auf den Bezug laufen kann.



12 Rückführsonde und Kommunikationskabel anschließen.



13 Innere Luftverteilertafel anhand eines Magnetschraubendrehers mit ihren Schrauben wieder anbringen und Kappen aufsetzen.

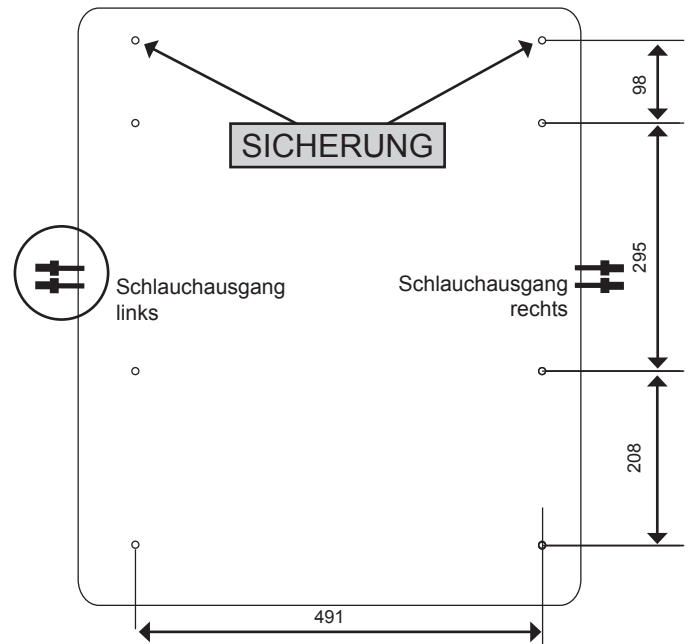


MONTAGE KONDENSATOR:

Achtung: Je nach Fahrzeug können die Ausgänge der Schläuche rechts oder links angebracht werden.

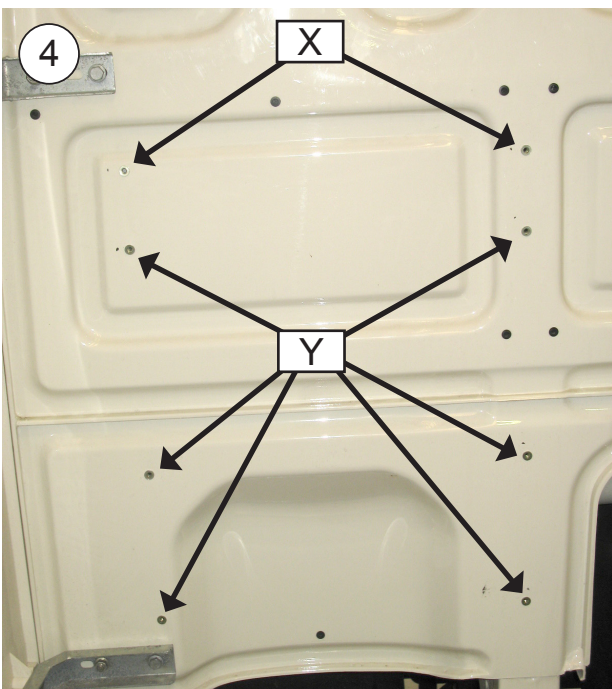
1 Hinweis: Wird die Montage von einer einzelnen Person durchgeführt, die Bohrungen mit den angegebenen Maßen markieren und dabei die Schlauchlänge (vom Verdampfer zum Kondensator) berücksichtigen.

2 Abdeckung abnehmen und Kabel des Kondensatorlüfters lösen.



3 Erfolgt die Montage durch 2 Personen die Basis des Kondensators auf die hierfür geeignete Hinterseite der Kabine platzieren, dabei die Schlauchlänge vom Ausgang des Verdampfers zum Kondensator berücksichtigen und mindestens 6 Bohrungen befestigen.

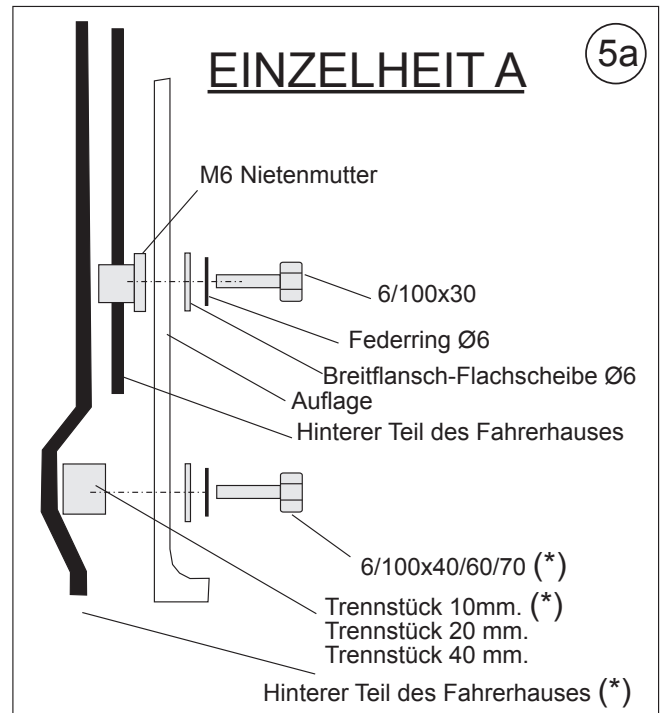
4 Zunächst die (2) oberen Bohrungen (X) Ø 9 durchführen, Anniemuttern M6 anbringen und die Basis mit Schrauben 6/100x30 positionieren, markieren und die restlichen Bohrungen (Y) durchführen. Muttern anbringen.



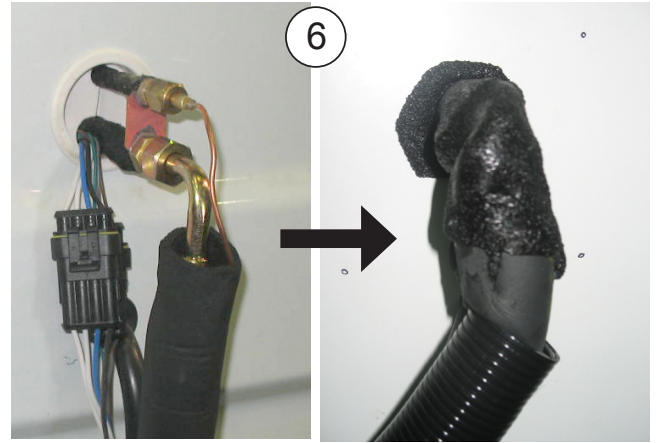
5 Wenn die Baugruppe flach aufliegt, mit (8) Schrauben 6/100X30, Grower-Scheibe und Flachscheibe befestigen.



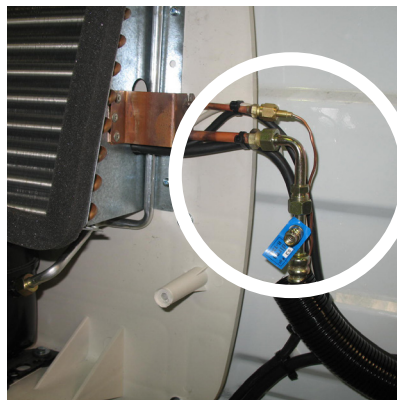
5a (*)- Ist die Unterlage nicht glatt, Distanzstück 10/20/40 mm und Schraube 6/100x40/60/70 anbringen.
SIEHE DETAILZEICHNUNG A



6 Kabel anschließen, Stutzen am Verdampfer anbringen und mit Tropfschutzband versiegeln.

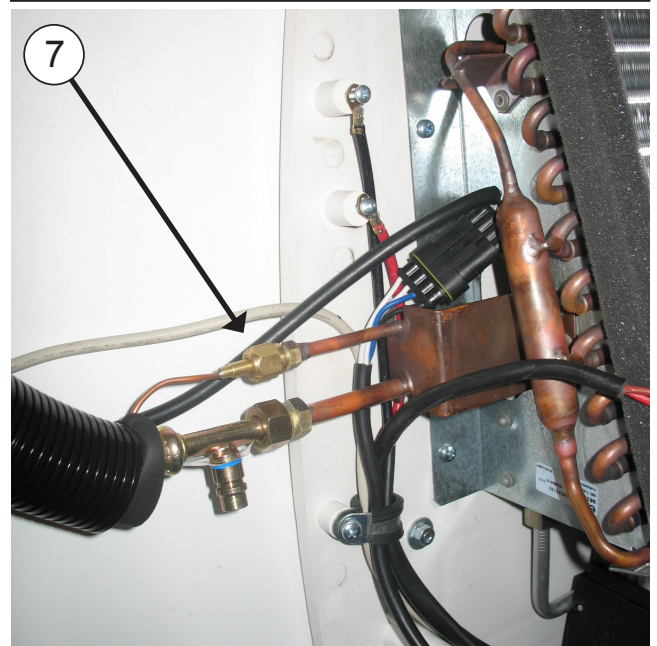


7 Leitungen und Kabel an die Kondensatorgruppe anschließen. Bei Bedarf Verlegen Schlauchanschluss 90° anbringen.

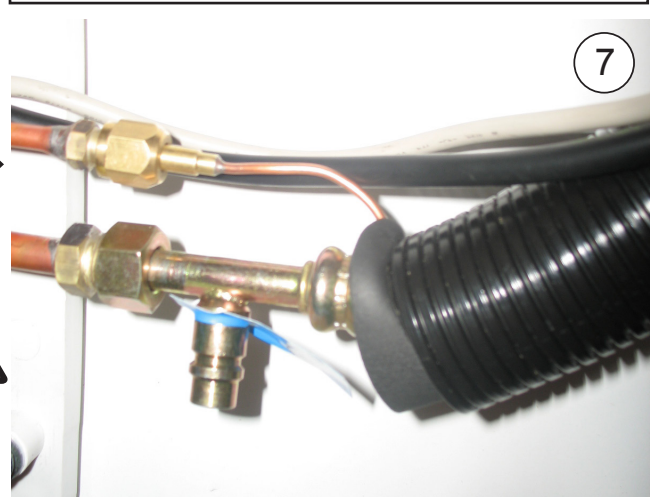


RECHTS

LINKS



RECHTS

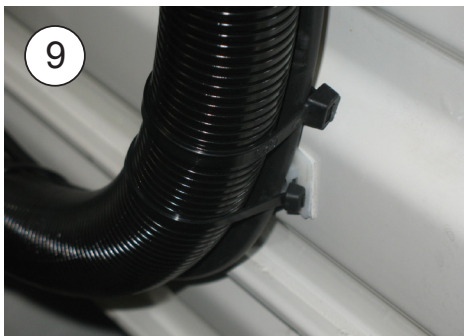


8 Schlauchschutz mit Dichtung nehmen, an Ø4 markieren und bohren und mit Blechschraube 4,8x19mm befestigen.



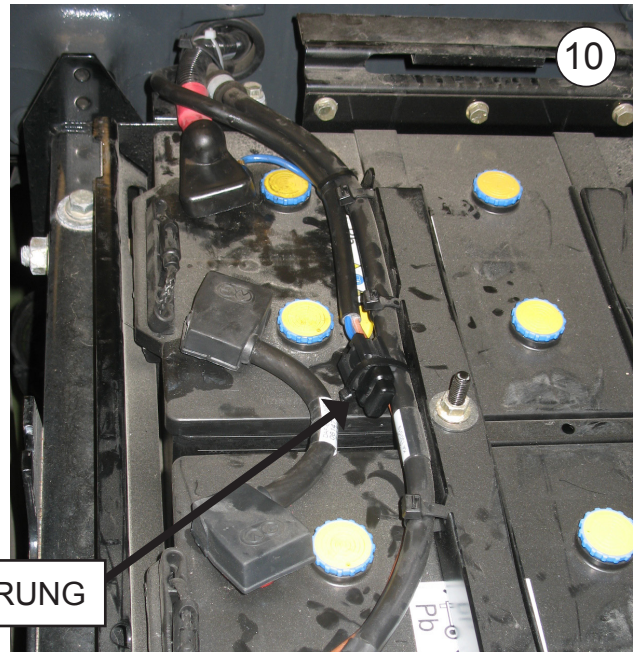
9 Kunststoffhalterungen ankleben und Schläuche, Kabel und Abflussschlauch befestigen (Montagebereich reinigen).

9A Drainageventil anbringen.



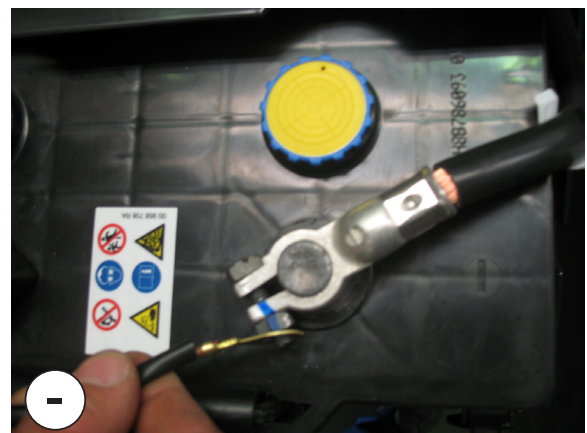
10

Stromkabel an die Batterie anschließen.
AUF DIE POLARITÄT ACHTEN.



SICHERUNG

Achtung: Aufgrund des komplexen elektronischen Steuerungssystems der Anlage muss die Stromversorgung direkt von der Fahrzeugbatterie und nicht von einem anderen Versorgungspunkt für sonstiges Fahrzeugzubehör aus erfolgen, wobei darauf zu achten ist, dass beim Anschluss die Polaritäten nicht vertauscht wird (1). Wird die Polarität vertauscht, kann es zu irreparablen Schäden an der Elektronik kommen, welche nicht durch die Garantie abgedeckt sind. **Achtung: Für die Inbetriebnahme konsultieren Sie bitte das Benutzerhandbuch.**

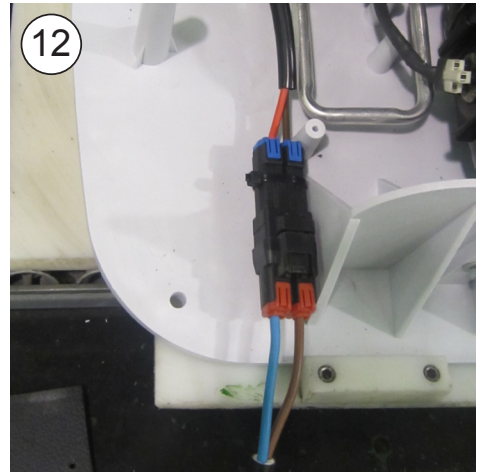


11

Kabine herunterklappen und Kabel an der günstigsten Stelle zur Kondensatorgruppe führen und mit Kabelschellen oder -bindern befestigen.

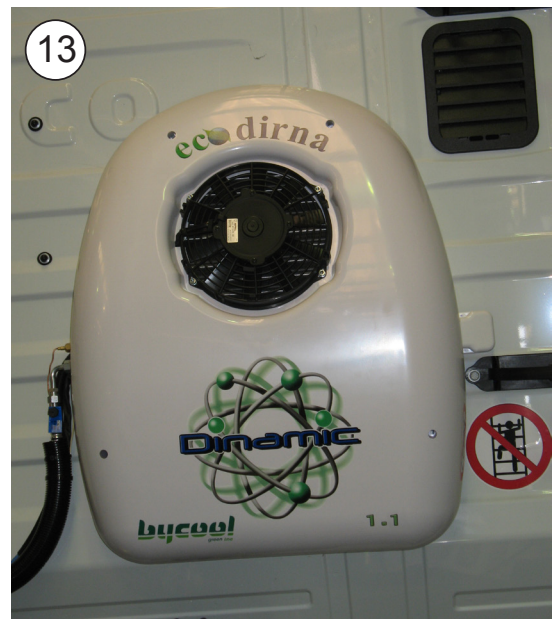
12

Speisekabel an die Baugruppe anschließen.
 (-) = Kabel M und N.
 (+) = Kabel R und Az.



13

Abdeckung mit den zuvor abgenommenen Schrauben anbringen.



14

Stützenkappe mit Blechschrauben 3,1x 11 an der den Schläuchen gegenüberliegenden Seite anbringen.



14



GASBEFÜLLUNG:

15 Während mindestens 30 Minuten ein Vakuum im Kreislauf herstellen.

16 Mit 300 g Gas R134a füllen und das Gerät in Betrieb nehmen.

17 ALLGEMEINER ÜBERBLICK ÜBER KONDENSATOREINHEIT UND SCHLÄUCHE.



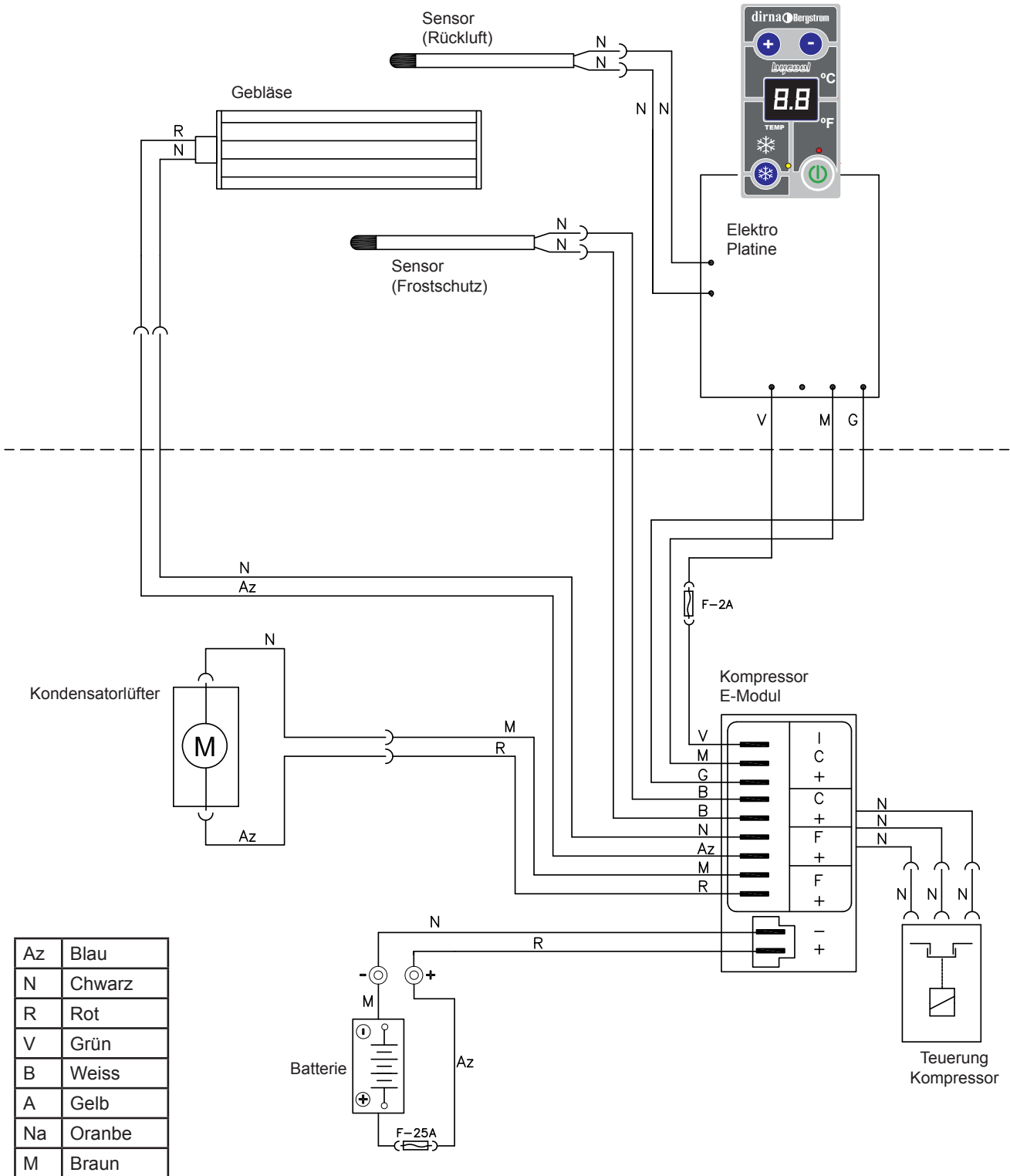
18 ANSICHT DER VERDAMPFERANLAGE.



Elektrisches schaltschema

WICHTIGER HINWEIS!

Darauf achten, dass die Polaritäten beim Anschluss der Stromversorgung an die Anlage nicht vertauscht werden. Ist dies der Fall, schaltet sich das Bedienfeld nicht an und die Anlage funktioniert nicht.



Suggerimenti per il montaggio

- Prima di cominciare il montaggio, leggere attentamente le istruzioni e rispettarle nel corso dello stesso.
- Usare gli attrezzi più adatti ad ogni operazione.

Elettricità

- Scollegare la chiave di contatto.
- Scollegare la batteria prima di cominciare il montaggio.
- Assicurarsi di avere effettuato correttamente l'installazione e il collegamento dei componenti elettrici.

Attenzione

Se durante il montaggio si inclina l'impianto o si ribalta la cabina con l'impianto montato, prima di rimettere in funzione l'impianto occorre attendere almeno 60 minuti dal momento in cui è di nuovo in posizione orizzontale.

Documentazione correlata

Istruzioni di montaggio	1002430926
Guida dell'utente	1002430924
Soluzione dei problemi	1002430925
Elenco ricambi	1002430922

Le indicazioni relative alla posizione sono:

DESTRA: lato del passeggero

SINISTRA: lato dell'autista

Coppia di serraggio (N.m)

Filettatura	Qualità Acciaio		Chiave
	8.8	10.9	
M6/100	10	13	10

Montaggio da tubi

Coppia di serraggio

Tubi	Coppia di serraggio	Strumenti
1/4"	13-15	Chiave fissa da 14 mm
3/8"	15-17	Chiave fissa da 19 mm

Attrezzi

Chiave a cricchetto con rubinetto di intercettazione da 10

Cacciavite a stella TOP 10

Chiave fissa da 10, 11, 14, 17, 19

Chiave a brugola da 6

Chiave a tubo da Ø 10

Punta Ø 4

Trapano

Punta Ø 6

Sega circolare Ø 19, 22, 48

Forbici

Rivettatrice M6

Simbologia



Fragile



Attenzione alle mani



Tensione elettrica pericolosa

Documentazione allegata

Guida veloce	1002430934
Garanzia	220AA10017

Avvertenze



L'installatore deve essere in possesso della formazione necessaria in materia di aria condizionata per veicoli.



dirna Bergstrom, s.l. declina ogni responsabilità per danni o rotture derivanti dall'errata installazione o dall'errato uso dell'impianto o da sostituzioni o modifiche effettuate senza la necessaria autorizzazione per iscritto.



Quantità di carica di gas refrigerante R-134a, da immettere nel circuito: 300 g.



Vedi la **procedura di garanzia** del prodotto in **Diagnosi dei problemi**.



Vedi la **Guida dell'utente** dell'impianto per il corretto funzionamento del telecomando e del pannello di controllo.



I seguenti documenti devono essere consegnati all'utente una volta conclusa l'installazione: **Guida dell'utente, Garanzia e Diagnosi dei problemi**.

OPERAZIONI PRELIMINARI:

- Disinserire la batteria.
- Smontare il pannello interno di distribuzione dell'aria dell'unità evaporante.



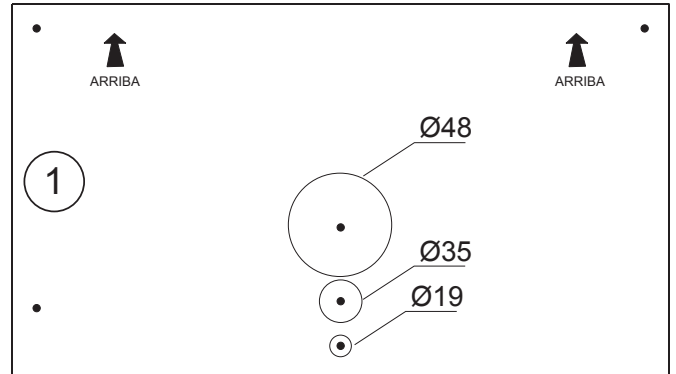
1

DALL'INTERNO DELLA CABINA:

Posizionare la dima in dotazione e segnare i fori da eseguire.

A- In presenza di 2 cuccette, posizionare la dima Bergstrom tra entrambe.

B- In presenza di 1 cuccetta, posizionare la dima sulla stessa.



2

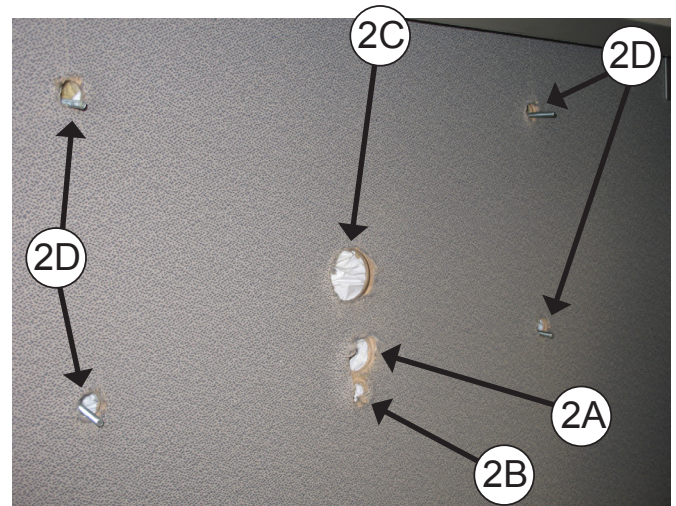
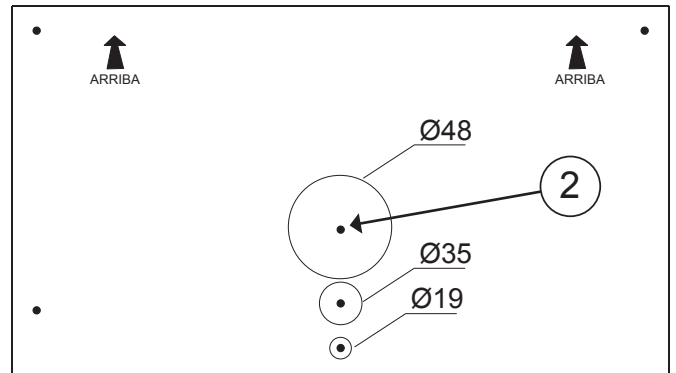
Praticare un foro Ø 4 passante con punta lunga nella posizione di foro Ø 48, quindi eseguire i seguenti fori:

A- (1) Ø 35 solo nella tappezzeria

B- (1) Ø 19 solo nella tappezzeria

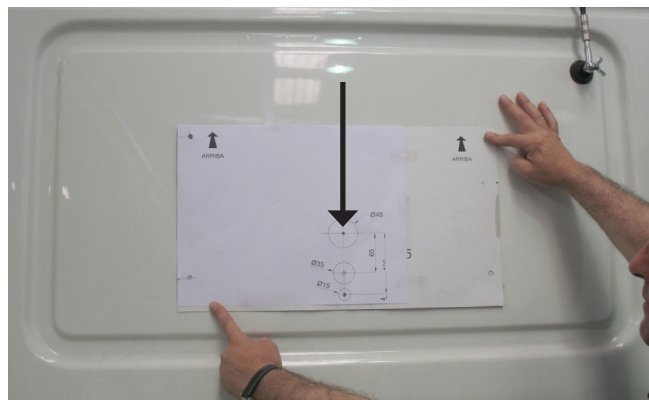
C- (1) Ø 48 solo nella tappezzeria

D- (4) Ø 22 solo nella tappezzeria



3**DALL'ESTERNO DELLA CABINA:**

Posizionare la dima livellata all'esterno, prendendo come riferimento il foro effettuato \varnothing 4, quindi segnare ed eseguire i fori rimanenti.

**4**

Inserire dall'interno le viti prigioniere M6 con il dado e la rondella, come indicato.

**5**

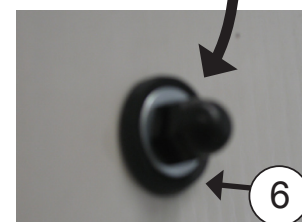
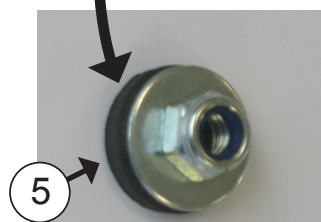
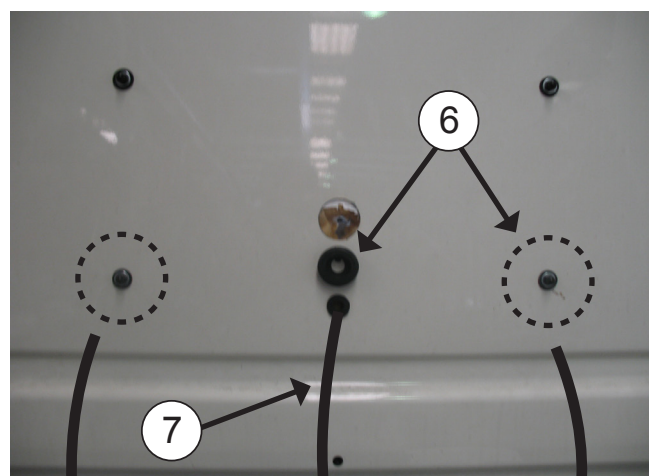
Fissare dall'esterno con la rondella piana di gomma e il dado autobloccante stringendo dall'interno con la chiave a tubo 10.

6

Inserire i tappi del dado e le guaine passamuro.

7

Fare passare il tubo di scarico nel foro \varnothing 19, nella guaina passamuro, verso l'interno cabina.



OPERAZIONI VALIDE SOLO PER MODELLI RENAULT MAGNUM

OPERAZIONI PRELIMINARI:

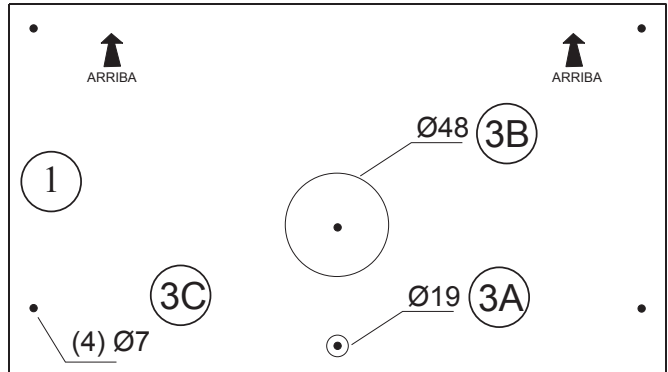
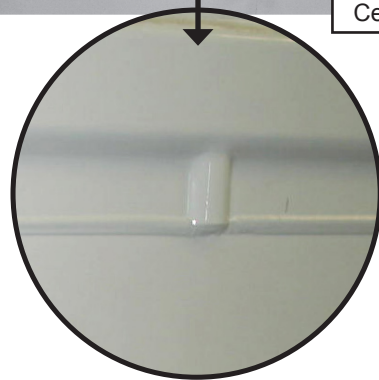
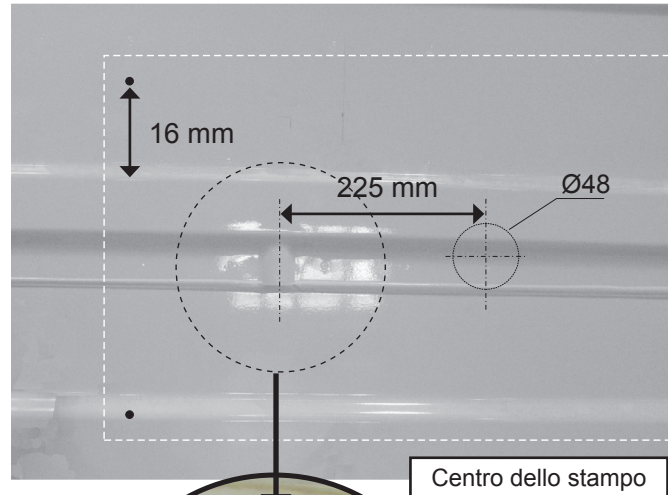
- Disinserire la batteria.
- Smontare il coperchio dell'unità evaporante.



1 DALL'ESTERNO DELLA CABINA:
Posizionare la dima fornita secondo le quote indicate.

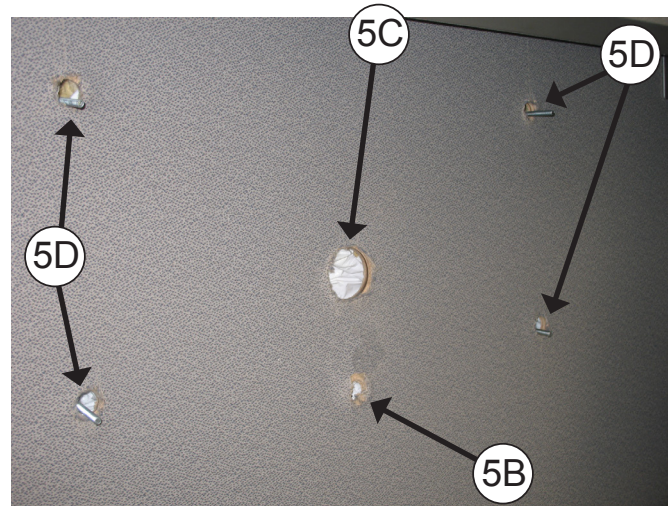
2 Segnare tutti i fori.

3 Praticare un foro $\varnothing 4$ passante con punta lunga nella posizione del foro $\varnothing 48$, quindi eseguire i seguenti fori:
A- (1) $\varnothing 19$
B- (1) $\varnothing 48$
C- (4) $\varnothing 7$



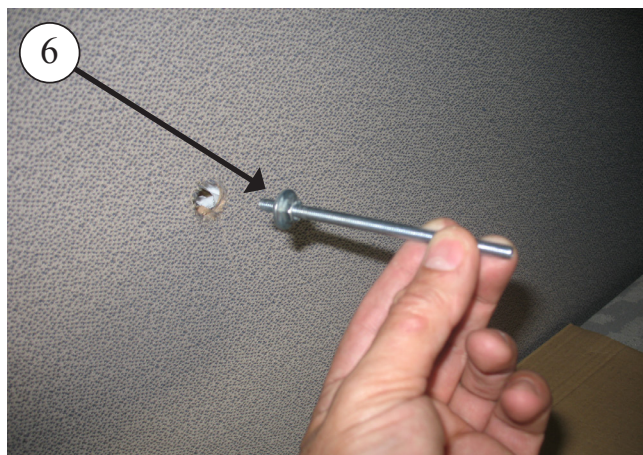
4 DALL'INTERNO DELLA CABINA:
Posizionare la dima in dotazione e segnare il foro da $\varnothing 48$.

5 Praticare i seguenti fori:
B- (1) $\varnothing 19$ solo nella tappezzeria
C- (1) $\varnothing 48$ solo nella tappezzeria
D- (4) $\varnothing 22$ solo nella tappezzeria



OPERAZIONI VALIDE SOLO PER MODELLI RENAULT MAGNUM**6****DALL'ESTERNO DELLA CABINA:**

Inserire dall'interno le viti prigioniere M6 con il dado e la rondella, come indicato.

**7**

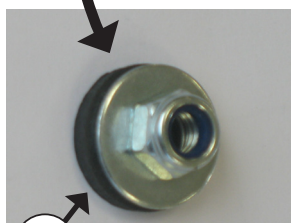
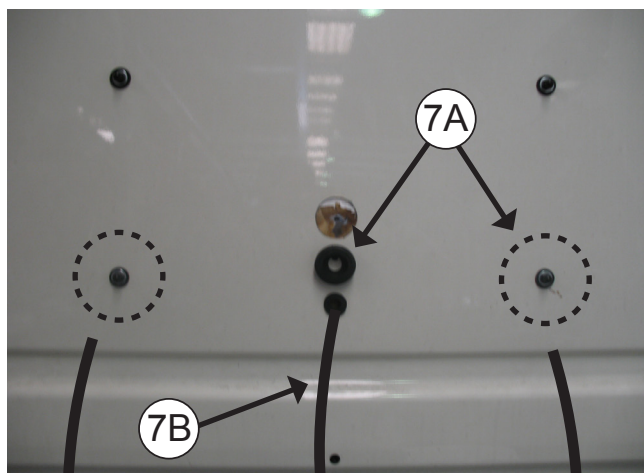
Fissare dall'esterno con la rondella piana di gomma e il dado autobloccante stringendo dall'interno con la chiave a tubo 10.

7A

Inserire i tappi del dado e le guaine passamuro.

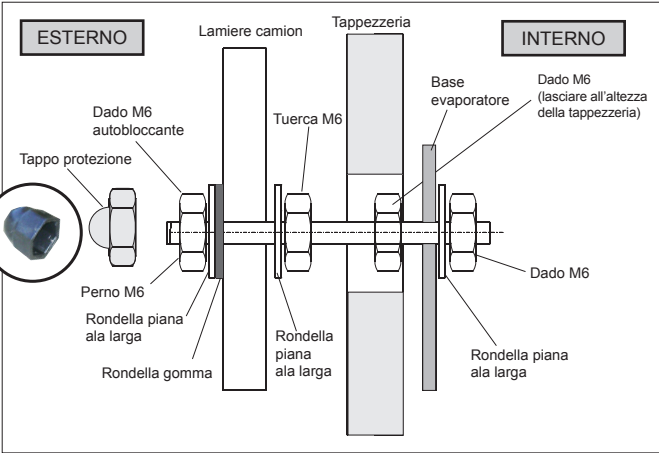
7B


Fare passare il tubo di scarico nel foro \varnothing 19, nella guaina passamuro, verso l'interno cabina.

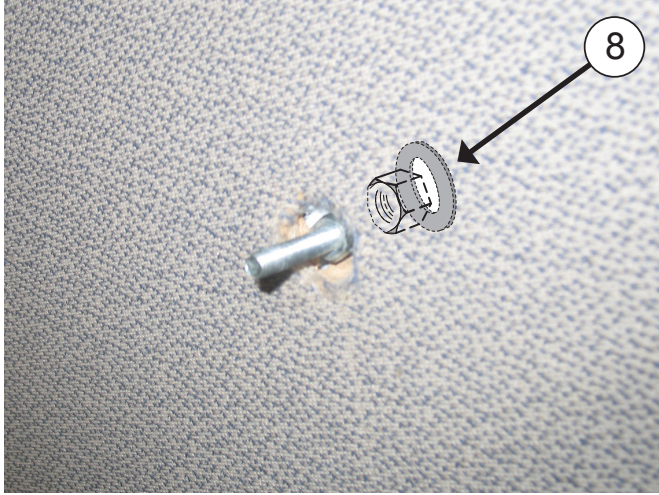
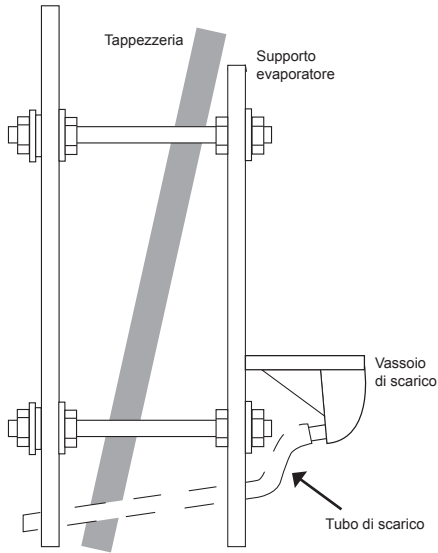


OPERAZIONI VALIDE PER TUTTI I MODELLI

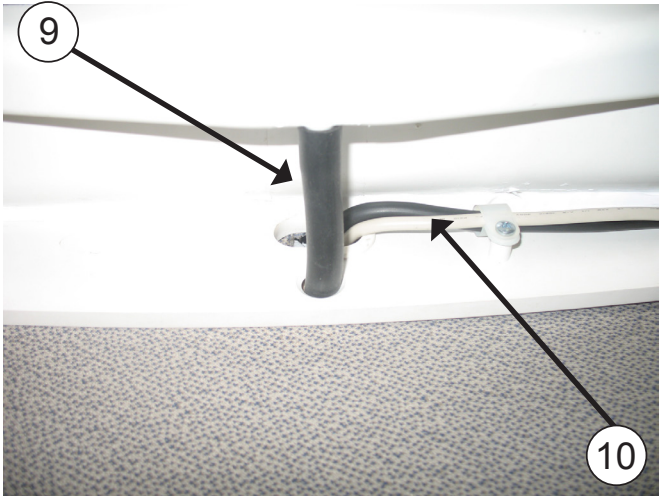
8 Sulle viti prigioniere avvitare (4) dadi M6 con (4) rondelle piane Ø 6 finché queste ultime non sono a filo della tappezzeria.
VEDI SCHEMA ALLEGATO



 **NOTA BENE**
In caso di rivestimenti inclinati tappezzati, l'insieme dell'evaporatore deve essere installato verticale per evitare che l'acqua di condensa cada sulla tappezzeria.



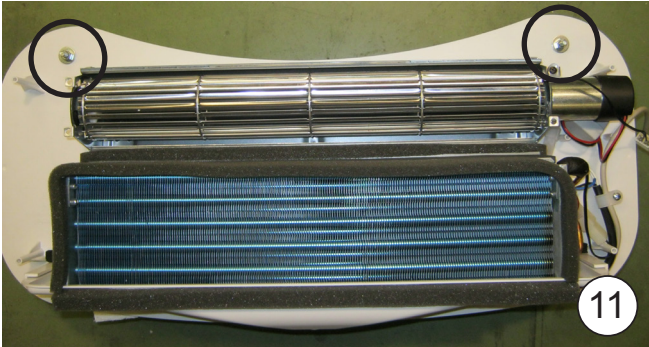
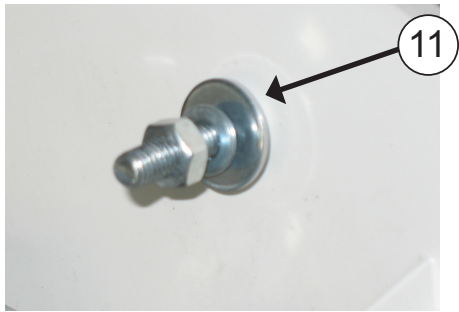
9 Fare passare il tubo di scarico nel foro della base dell'evaporatore e collegarlo al vassoio di raccolta.




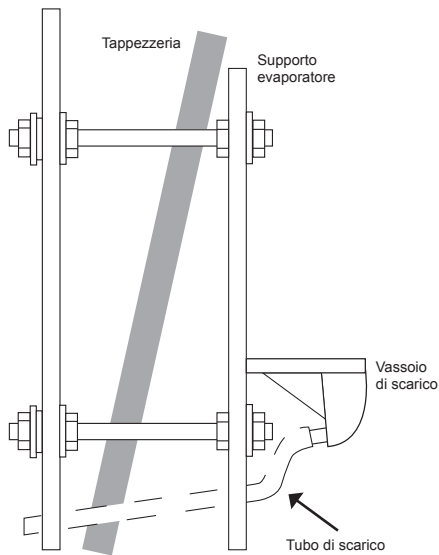
10 Fare passare il cablaggio nel foro Ø 35 verso l'esterno.



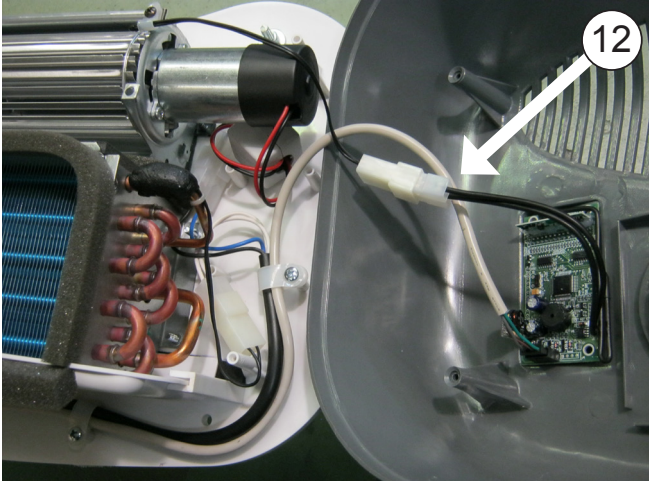
11 Inserire la base dell'evaporatore sulle viti prigioniere e fissare con (4) rondelle piane (4) grower e (4) dadi M6.



 **NOTA BENE**
Lo scarico deve avere la pendenza sufficiente per evitare la caduta dell'acqua sulla tappezzeria.



12 Collegare il sensore dell'aria di ritorno e il cavo per le comunicazioni.



13

Riavvitare il pannello interno di distribuzione dell'aria con le relative viti, usando un cacciavite magnetizzato e inserire i tappi.

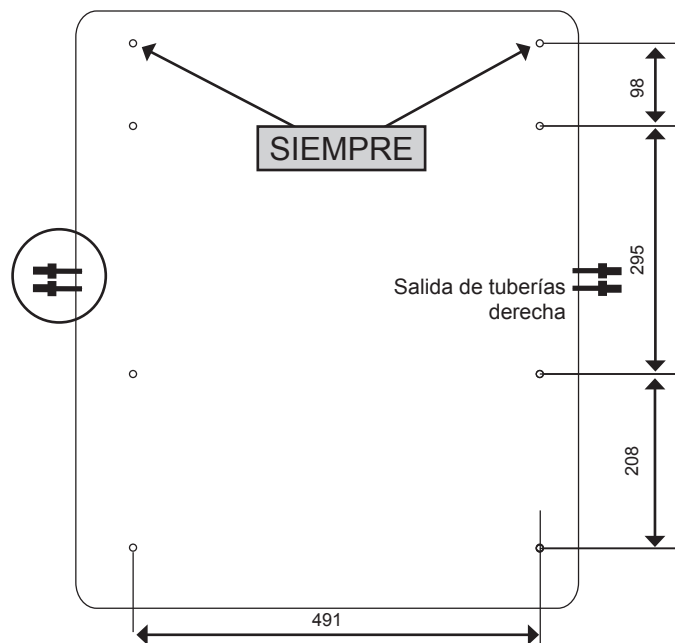


MONTAGGIO DEL CONDENSATORE:

Nota bene: A seconda del veicolo, è possibile posizionare le uscite delle tubazioni sul lato destro o su quello sinistro.

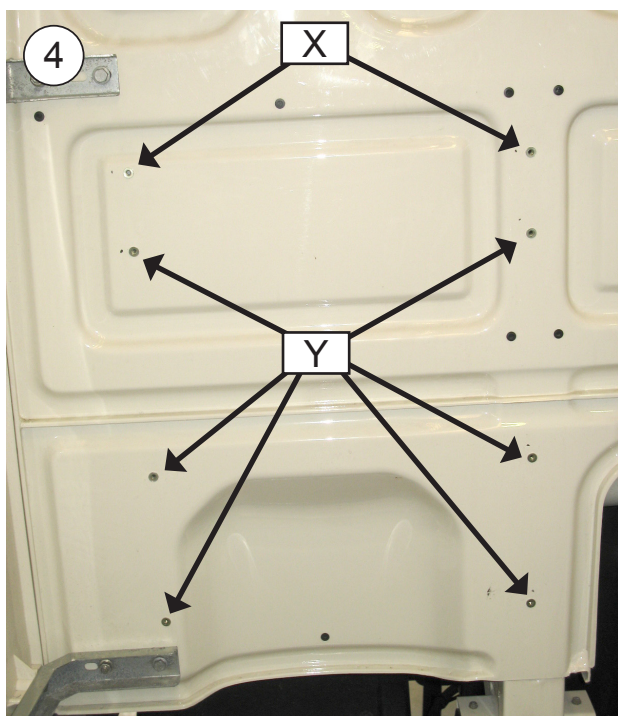
1 **Nota:** Quando l'installazione è eseguita da una sola persona, segnare i fori con le misure indicate, tenendo conto della lunghezza della tubazione (dall'evaporatore al condensatore).

2 Smontare il coperchio e staccare il cablaggio del ventilatore condensatore.



3 **Se l'installazione è eseguita da 2 persone.** Posizionare la base del condensatore situandola nella parte più adatta della parte posteriore della cabina, **tenendo conto della lunghezza della tubazione dall'uscita dell'evaporatore al condensatore**, e segnare come minimo 6 fori.

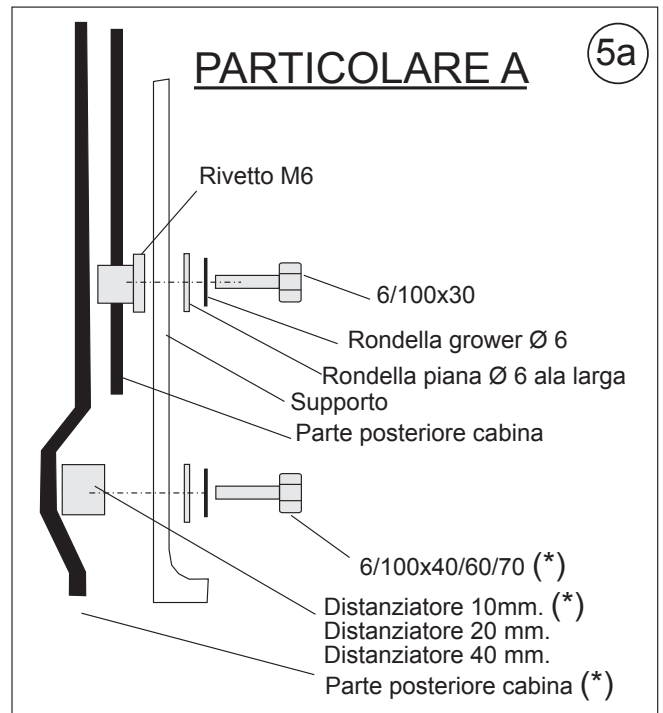
4 Praticare i (2) fori superiori (X) Ø 9, inserire i rivetti M6 e posizionare la base con le viti 6/100x30, quindi segnare e praticare gli altri fori (Y) ed inserire i dadi.



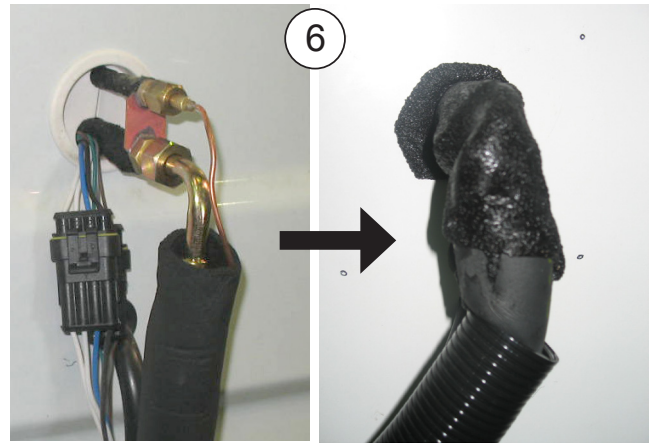
5 Fissare l'unità con (8) viti 6/100X30, rondella grower e rondella piana quando si appoggia in piano.



5a (*)- Se non appoggia sulla parte liscia, posizionare un separatore da 10/20/40 mm e una vite 6/100x40/60/70.
VEDI PARTICOLARE "A"

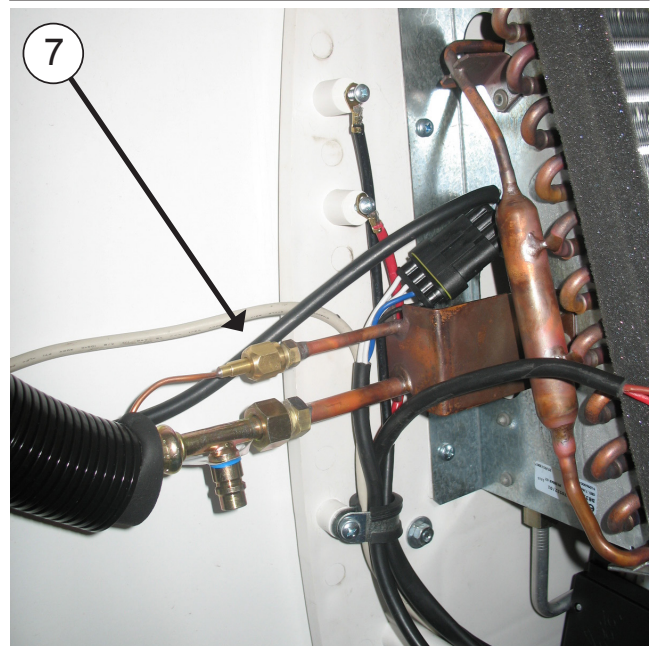
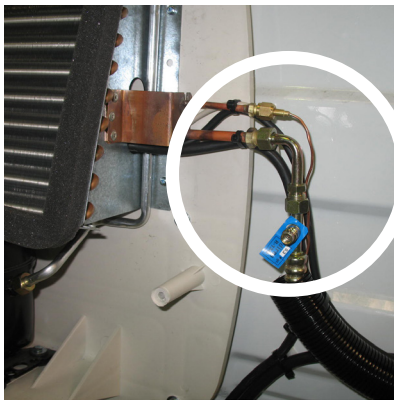


6 Collegare il cablaggio e i raccordi nell'evaporatore e sigillare con il nastro a tenuta.



7 Collegare le tubazioni e il cablaggio all'unità condensante. Se necessario, inserire il raccordo a 90°.

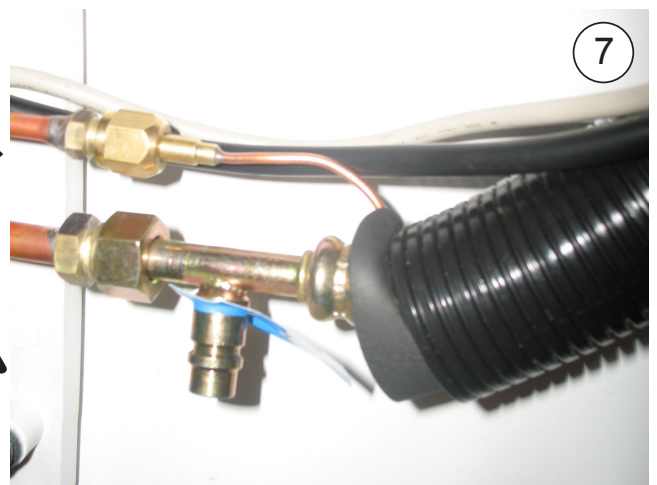
LATO SINISTRO



LATO DESTRO



LATO DESTRO



8 Posizionare la protezione delle tubazioni con la guarnizione, segnare e praticare fori Ø 4 e fissare con le viti autofilettanti 4,8x19 mm.



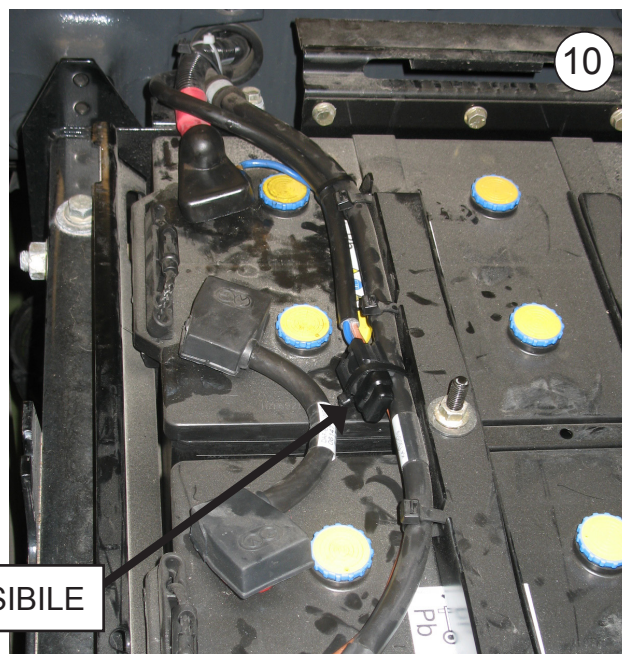
9 Incollare i supporti di plastica e fissare la tubazione, i cablaggi e il tubo di scarico (*pulire la zona di montaggio*).

9A Inserire la valvola di drenaggio.



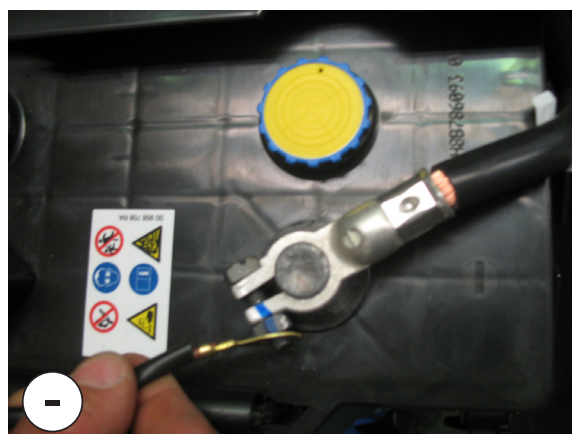
10 Collegare alla batteria il cablaggio di alimentazione.

ATTENZIONE ALLA POLARITÀ.



FUSIBILE

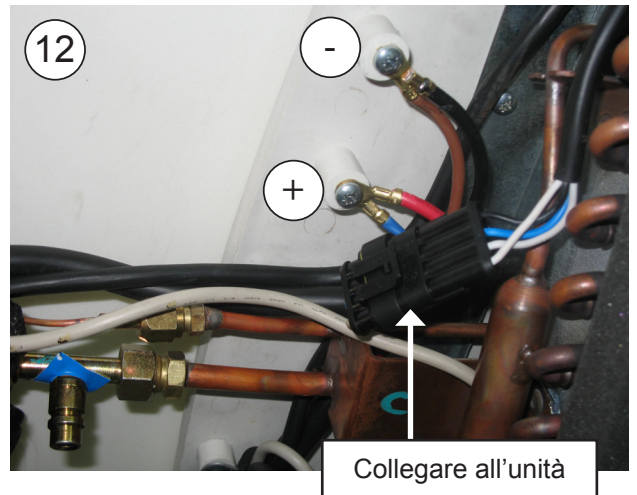
Nota bene: Dato il complesso sistema di regolazione elettronica dell'impianto, la corrente deve essere presa direttamente dalla batteria del veicolo, non da qualsiasi altro punto che eroga ad altri accessori del veicolo, facendo attenzione a non invertire la polarità effettuando la connessione (1). Se si inverte la polarità si possono causare danni irreparabili all'elettronica, che la garanzia non copre. **Nota bene: Per l'avviamento, vedi il Manuale dell'utente.**



11 Ribaltare la cabina e fare il cablaggio dalla zona più adatta verso l'unità condensante, fissando con ghiera o flange.

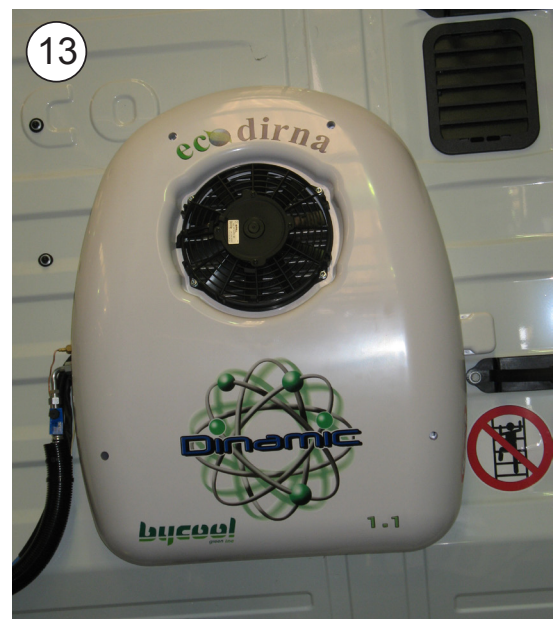
12

Collegare il cablaggio di alimentazione all'unità.
 (-) = cavi M e N.
 (+) = cavi R e Az.



13

Montare il coperchio con le viti rimosse in precedenza.



14

Montare il coperchio protettivo dei raccordi con le viti autofilettanti 3,1x11 sul lato contrario a quello delle tubazioni.



CARICARE IL GAS:

15 Fare il vuoto nel circuito per almeno 30 minuti.

16 Immettere 300 g. di gas R134a e mettere l'impianto in funzione.

17 **VISTA GENERALE DELL'UNITÀ
CONDENSANTE E TUBAZIONE.**



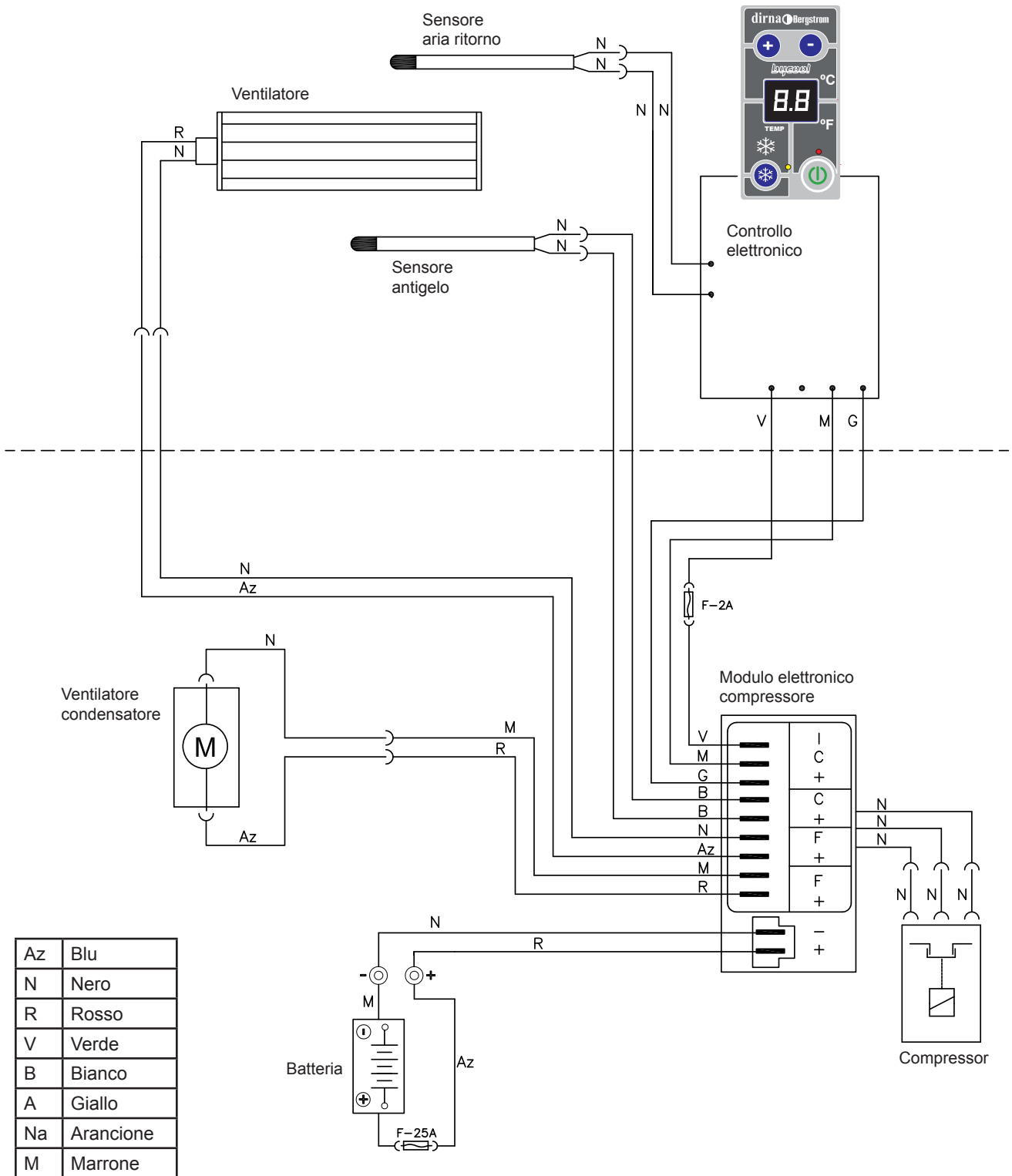
18 **VISTA GENERALE DELL'UNITÀ
EVAPORANTE.**



Schema elettrico

AVVERTENZA IMPORTANTE!

Fare attenzione a non invertire le polarità nel collegamento dell'alimentazione dell'impianto. Infatti, in tal caso il quadro comandi non si accende e l'impianto non funziona.



Ed:	04/07/2019
Md:	



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