dirna Bergstrom
Air conditioning for vehicles
Climate Control Systems

bycool
green line

DINAMIC 1.1
24V

Diagnosis de averías — ES Spanish
Troubleshooting — EN English
Diagnostic de panne — FR French
Diagnose bei ausfällens — GE German
Diagnosi dei guasti — IT Italian

Con mando a distancia
With remote control
Avec commande à distance
Mit Fernbedienung
C/comando à distância

F-4220 rev.00

220AA11003

Symptom	Cause
• If the equipment does not come on or the display and the equipment go off during operation.	• Power supply cut-out blown or disconnected (*in 25A battery cable*). • Power supply cable disconnected, with poor contact, or cut. • Communications cable disconnected or cut (*in control module or in electronic control*). • Power supply wire clamp of the control module disconnected. • Communication cable cut-out blown (*found underneath the case of the control module, next to the compressor*).
• When turning on the equipment or during operation, the display shows E0 alternating with CA (*recirculation sensor failure*). During this error, the equipment works but the recirculation sensor is not regulated (*and the temperature cannot be increased or decreased*). To turn off the equipment, keep the on/off button pressed down until the display goes off (*4" approximately*).	• Poor connection in recirculation sensor cables or terminals. • Recirculation sensor disconnected or failed.
• When turning on the equipment or during operation, the equipment gives out intermittent beeps and the display shows E1 when the beeps finish (22 V low battery). The equipment halts automatically. Keep the **on/off** key pressed down to turn off the display.	• Poor contact in co power supply terminals or connections. • Battery flat or defective.

Solution
• Connect or replace the power supply cable fuse. • Check and correct any possible poor contacts, breakages or disconnection of the power supply cable to the battery. • Connect communications cable (*wire clamps of 3 cables located in the control panel, control module or in the connection with the evaporator*). • Connect the power supply wire clamp of the control module (*in the case next to the compressor*). • Replace the cut-out (2A) (*found inside the case of the control module, next to the compressor*). **(If the error persists, contact an Authorised Technician).**
• Check and correct possible poor contacts in terminals or cables of the recirculation sensor. • Connect or replace the recirculation sensor. **(If the error persists, contact an Authorised Technician).**
• Check and correct any possible poor contacts in connections or terminals of the battery supply cable. • Charge or replace the battery. **(If the error persists, contact an Authorised Technician).**

Symptom	Cause
• The display shows E2, the equipment goes off automatically and the display shows error E2 until the anomaly is repaired. For the display to stop showing E2, disconnect the cut-out of the power supply cable to the battery.	• Blower or electrofan blocked or short-circuited.
• When turning on the equipment or during operation, the display shows E3 (*compressor failure*).	• Excess load. • Compressor defective or failed. • Control module failure.
• When turning on the equipment or during operation, the display shows E5 (*compressor failure*).	• Failure through heating of the control module.
• When turning on the equipment or during operation, the equipment gives out intermittent beeps and the display shows E6 (*antifreeze sensor failure*). The equipment disconnects automatically, but the display shows error E6 until the anomaly is repaired. For the display to stop showing E6, disconnect the cut-out of the power supply cable to the battery.	• Poor connection in antifreeze sensor cables or terminals. • Antifreeze sensor disconnected or failed.

Solution
• Repair the possible obstruction of the blower or of the electro; if the error persists, replace the blower or the electro. **(If the error persists, contact an Authorised Technician).**
• Check the equipment load (*the operating pressure of the equipment should not exceed 3 bars*); if the pressure is not correct, recover gas, empty the circuit for at least 30 minutes and introduce 300 g of R134-a gas in the circuit. • Replace the compressor • Replace the control module **(If the error persists, contact an Authorised Technician).**
• This may be due to long periods of operation. Turn of the equipment for at least 1 hour. **(If the error persists, contact an Authorised Technician).**
• Check and correct possible poor contacts in terminals or cables of the antifreeze sensor. • Connect or replace the antifreeze sensor. **(If the error persists, contact an Authorised Technician).**

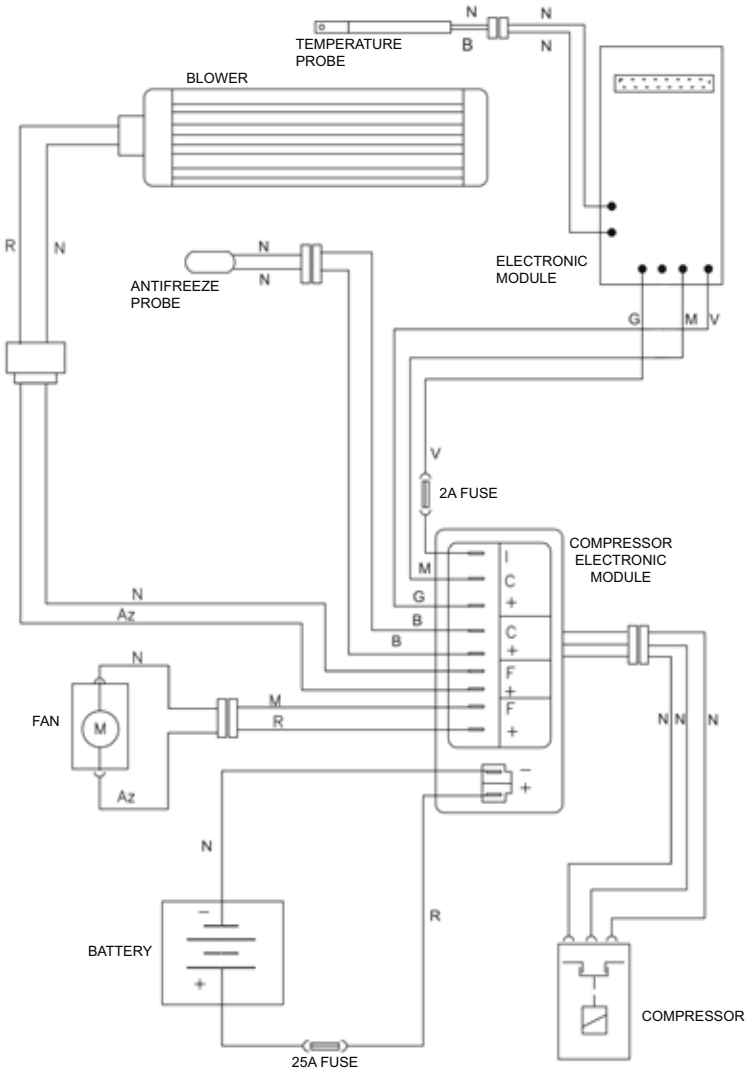
Symptom	Cause
• When turning on the equipment or during operation, the display shows EC alternating with CA (*communication cable failure*). The equipment goes off automatically.	• Poor connection in communication cable cables or terminals. • Communication cable wire clamps loose during operation (display off but equipment working).
• The equipment gives out intermittent beeps and disconnects.	• Electronics poorly connected in the keyboard.
• The equipment gives out a continuous beep. **Caution!** Do not press any button, as this will cause irreparable damage to the electronics.	• Power supply cable inverted in the poles (+ and -) in its connection to the battery. • Electronics defective.
• The equipment works but does not cool.	• Compressor wire clamp disconnected. • Lacking or excessive load. • Condenser dirty. • Electro disconnected or defective. • Terminals or cables poorly connected in the control module. • Obstruction in the circuit (may be due to excess oil).
• Water accumulates inside the cabin or is filtered to the exterior.	• Waste water tube or valve obstructed. • The waste water tube and cable outputs to the exterior are not sealed.
• **Every time it is necessary to extract or introduce the circuit gas load, appropriate machinery must be used, respecting the environment at all times.**	

Solution
• Check terminal connections and power supply cable cables. • Connect the wire clamps (*these may be in the control panel or control module*). **(If the error persists, contact an Authorised Technician).**
• Dismount the front and correctly connect the electronics in the keyboard.
• Check and correct the position of the power supply cables to the battery. • Replace the electronics.
• Connect the wire clamp of the compressor. • Check the load by checking the pressure, if it is below 0.5 bars or above 5.0 bars with the equipment operating, recover the load and empty for at least 30 minutes, and then introduce 300 g in the circuit. • Clean the condenser with pressurised air. • Connect or replace the electro. • Check that the 3 terminals of the electro are connected in the control module. • Check the pressure and, if it is below 0.5 bars with the equipment operating, clean the circuit or replace the obstructed components (*possibly the continuous flow capillary tube, as this is the component of least diameter*).
• Clean the obstruction of the waste water tube and valve. • Seal the waste water tube output and the cables located underneath the adapter protector in the exterior section.
The recovery of the gas will never be exact, since part of the gas remains in the hand gauge tubes.

ELECTRIC WIRING

IMPORTANT NOTE!

Take care not to invert the polarities when connecting the equipment to the battery. Should this occur, the electronic control will give out some beeps. **Do not touch any keys on the equipment switchboard or panel**, as this may produce irreparable damage. If you hear the beeps, disconnect the equipment from the battery and check the connection polarity.



Az	Blue
N	Black
R	Red
V	Green
B	White
A	Yellow
Na	Orange
M	Brown