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GENERAL INFORMATION and USER HINTS

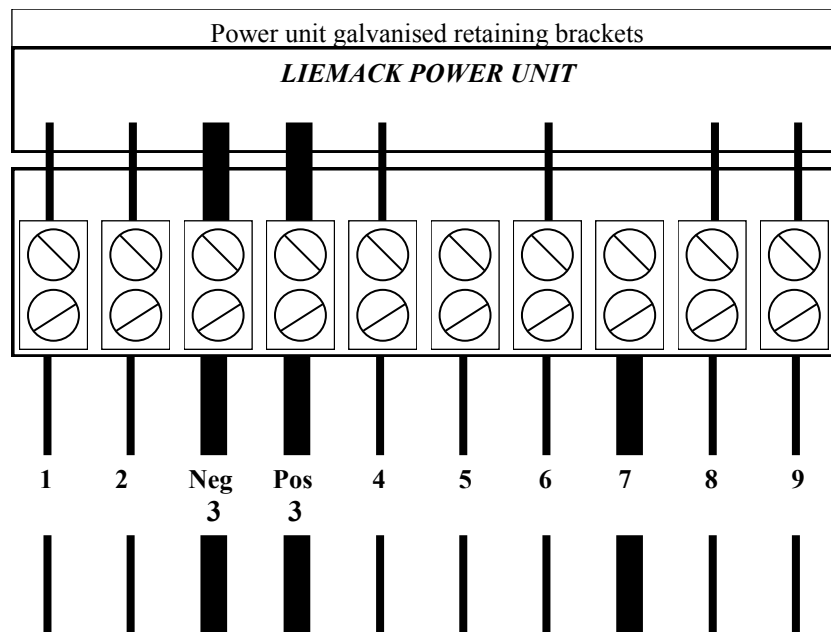
Your Liemack is equipped with a powerful refrigeration system allowing it to perform in extreme, difficult and varied conditions.

The fridge is removing heat from inside the cabinet and disposing of it outside, therefore if it's ability to dispose of heat is restricted it's performance generally will be impaired.

- Allow good ventilation to the fan area and from the rear mesh area.
- Prevent warmed air from the mesh area recycling to the fan intake.
- Allow adequate ventilation when in a stationary vehicle, or in a confined space like the boot.
- Locate on a suitable suspension when used in the rear of a four wheel drive.
- Organise lid openings and restrict opening in windy conditions.
- Do not store flammable or toxic substances near the fridge.
- Adding additional warm items will mean long running, so it is best to add them when power is plentiful, i.e. In the morning before travelling or when 240 volt power is available.
- Operate at reasonable temperatures, especially when on battery only. Temperatures below zero use much more power.
- The temperature indicated is that of the inner wall of the larger compartment. As the walls are refrigerated, this temperature varies at a rate much greater than stored products.
- As the temperature control monitors the larger compartment in all Liemack portables, the freezer compartment on "DT" models is always much colder.
- ***Don't*** drill holes in, or penetrate cabinet walls. Contact Trisan for advice.
- Ensure that the 12 Volt supply system is as recommended so that the inbuilt low voltage cut-out device does not operate prematurely.
- Using "Tecni-ice" or similar in the fridge will help to balance run requirements. For best results, run at a lower than normal temperature when power is abundant, then return to your normal settings. Your Liemack will hold over longer when full of refrigerated products.
- Temperature settings suggested are a starting point. You may wish to operate at higher or lower temperatures. Having established your ideal settings you don't need to alter them again until a different range is required as the controller has inbuilt memory and will operate at the last settings made.
- The fan operates separately from the refrigeration system on its own 12 volt circuit. This allows the most economical function.

GENERAL INFORMATION and USER HINTS (Cont.)

Wiring Diagrams for Liemack Power Units



- | | |
|---|--|
| (1) Black - neg for fan. | (5) Blue - Neutral for power point. |
| (2) Black with white strip, positive | (6) Blue - Neutral for compressor |
| (3) Black & Red - 12 Volt Input. (Observe Polarity) | (7) Brown - Active for power point & compressor. |
| (4) Green - earth | (8) Brown - Active 240 Volt Input |
| | (9) Blue - Neutral for 240 Volt |

To check for poor or faulty 12 V power supply in your vehicle

As the fridge is about to start (at the end of 10 minute countdown) touch the “BATT” button and read:-

- The voltage just before start-up.
- The voltage movement upon start-up.
- The voltage with the unit running after start-up.

Voltages in (b) should be .6 to .7 below voltage (a). This voltage drop should be “smooth”.

E.g. (a) 12.8 then (b) 12.6, 12.4, 12.1, 12.2, 12.3.

Voltage (c) should be within .2 to .3 of voltage (a).

Trouble Shooting: If voltage (b) stays similar to voltage (a) and the compressor fails to start there is a problem with the inverter.

If voltage (b) is very erratic there is a problem with the vehicle power supply.

If voltage (c) is .4 of a volt or more below voltage (a) there is a problem with the vehicle power supply.

Vehicle power supply problem:

These could be:- The power supply is not connected as per the Liemack manual.

A poor connection in the positive or earth circuits.

Battery failure.