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le 02/10/90

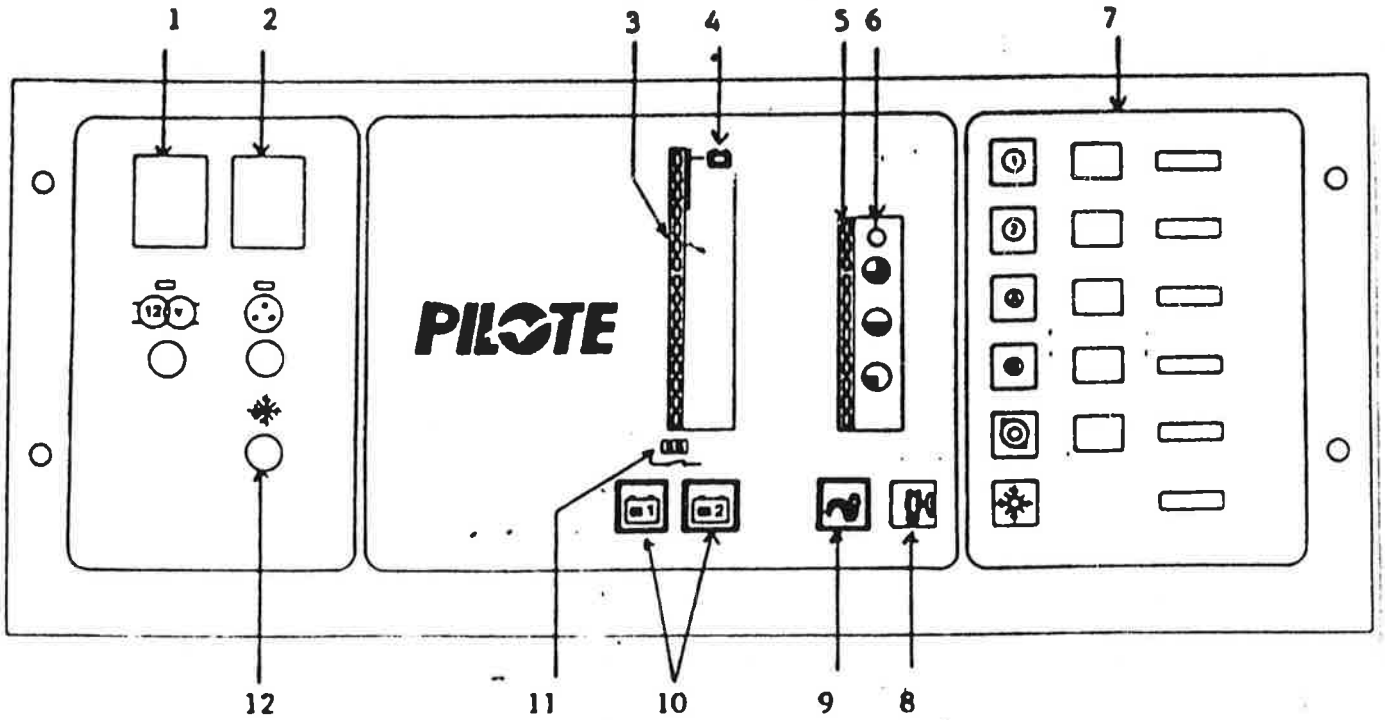
COMPACT SUPPLYING AND CHARGING BLOCK 220/12 V

Ref. 09.176.3 and 09.176.5

This compact supplying and charging block ref. 09.176.3 or 09.176.5 is composed of a double function transformer for 220 /12 V supply (180 Watt) and for the automatic charge of 12 V battery (8 A max) and of a control- and distribution panel for whole the electrical circuits of the vehicle.

In its basic form, it is equiped for the use of two batteries (with an electronic separator SCHEIBER). To use it with only one battery, connect together inputs + B1 and + B2.

It is equiped of a transformer according to the norm NFC 52210.



1. circuit transformer/charger
2. circuit 220 V use (15 A)
3. visual control for batteries' charge
4. charging indicator
5. visual control for clean water level
6. adjustment of clean water level
7. circuit 12 V use
8. indicator for waste water maximum level
9. test switch for clean water level
10. test switches for charge of batteries B1 and B2
11. visual control for batteries' connection
12. refrigerator protection in 220 V

I - WORKING PROCESS :

a) on battery :

All circuits 12 V are supplied with battery. In order to limit battery's discharge, the refrigerator works in 12 V only if the vehicle is running (motor working).

b) on 220 V :

The switch "2" controls 220 V output (this output is protected by a 15 A circuit-breaker).

The switch "1" controls the transformer (12 V use + charger). When this switch is on, batteries recharge and 12 V outputs are supplied with the transformer, except the auxiliary output 1 which is connected to the auxiliary battery. This output may be used to provide appliances which need continuous current instead of rectified current, such as "television sets, radios, TRUMA E..." Refrigerator is supplied with 220 V.

The indicator "4" shows batteries recharge ; when the charge is finished, it light off and circuit charger is automatically cutted.
No problem if the supplying block runs continuously.

C) Control :

The indicator "3" commanded by switches "10" enables to control the charge of main-and auxiliary batteries. In order to have a correct measure, it is necessary to make it when neither alternator nor charger are working.

Indicator "11" light on when batteries are connected by the separator (when the common batteries voltage is up to 12,4 V).

Indication of maximum waste water level is automatic as soon as the tank is full.

Clean water level is given by switch "9".

IV - CONNECTION OF SUPPLYING AND CHARGING BLOCK

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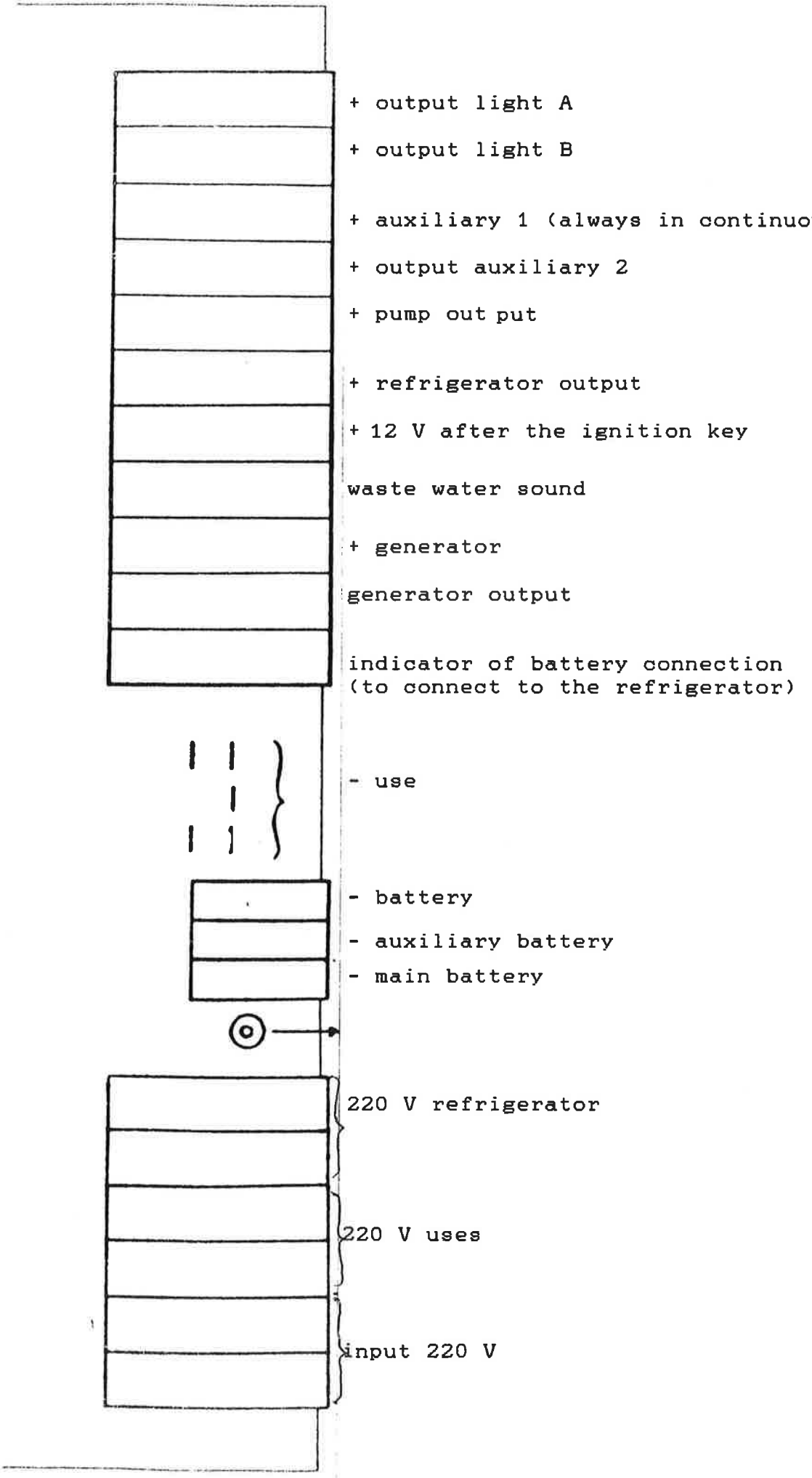

II - CLEAN WATER
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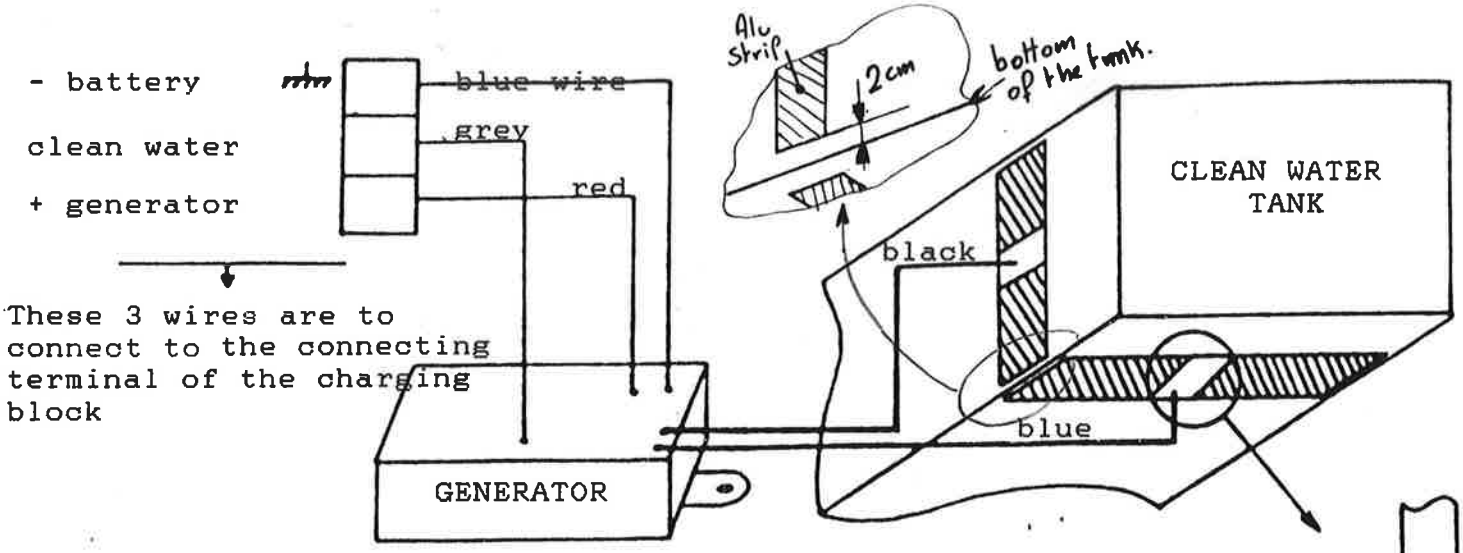
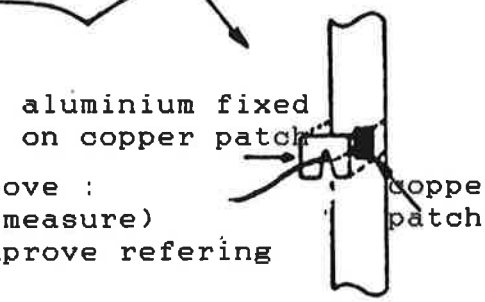
Connection and adjustment of "gauging aluminium strips"

Level measure in plastic tank is given by 2 gauging aluminium strips fixed outside the tank and connected to a generator which translate water level in electrical measure.





After careful cleaning of the tank
(especially where the aluminium gauging strip will be fixed) place the strips as indicated above :
one strip vertically on the tank lateral side (measure)
an another on the inferior side (in order to improve refering ground).
Stick sounding wires thanks to copper patches.
A good electrical contact is necessary between copper patches and strips the aluminium strips.
Never put glue or anything else between patches and strips.

ADJUSTMENT :
When tank is empty, only one or two leds are on.
Fill up the tank and adjust with switch "6" so that all leds are on.

III - WASTE WATER
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sounding system connection