

Hobby International - Operational Manual

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Dear motor caravaner,

We congratulate you for the purchase of your HOBBY-camper and hope that it will always be your good companion.

Please, read this manual carefully, even if you have already driven a camper for a longer time.

The right handling of all technical details raises the joy of driving and serves to preserve the value and life span of your camper.

We wish to you as well as your companions many restful trips and always and everywhere a good journey.

Your HOBBY-Wohnwagenwerk
Ing. Harald Striewski GmbH

HOBBY 600

Chassis No. .

Vehicle Letter-No. :

Key No. of the driver's door :

Key No. of the front door of the living area :

Registration No. of the board control center and the battery charger .

[1] General Advices

This manual deals basically with the camper's construction and its use.

Enclosed you receive detailed manuals for .

- the chassis (FIAT or PEUGEOT),
- the fridge,
- the living area's heating incl. warm air ventilation
- the storage water heater

and various other devices which belong to the technical equipment of the vehicle.

We are constantly working on the advancement of our products. Please understand, that because of this fact we have to reserve ourselves for any changes in form, equipment and technology as well as in scope of supply. Hence, from the information, pictures and descriptions of this manual no claims can be derived.

[2] Customer service

For servicing, customer service and eventual repairs, concerning the chassis or the engine, please contact the next FIAT or Peugeot professional truck workshop.

For the living space heating incl. the warm air ventilation and the storage water heater the mobile customer service of the company TRUMA is prepared to help You.

For the fridge if necessary please request the customer service of the company ELECTROLUX according to the enclosed service list.

For the on-build construction your HOBBY-camper dealer is prepared to help you. A list of contract dealers is enclosed or can be requested if necessary.

[3] Licensing regulations and operating instructions

Your Hobby-camper is registered according to the 'German traffic permission law' (StVZO) as a "special vehicle - caravan". Thereby you can enjoy all advantages of a passenger car in traffic (not with on-loading on 3.1 t).

Every vehicle that takes part in the public traffic is liable to licensing. The licensing of you camper is done at your car registration office by presentation them the vehicle letter and an insurance coverage confirmation.

According to §29 of the German StVZO your camper has to be checked [MOT] every two years for certifying its roadworthy state regarding to the safety standards.

All changes to the vehicle subject to the application of the German StVZO are liable to acceptance.

The trailer coupling has to be type-proofed, the assembly has to be checked by the German 'safety standards authority' (TÜV) and has to be written into vehicle letter and vehicle card.

The supporting load sign has to be attached at well visible place.

Attention

By application of a trailer coupling an enforcement of the rear-axle springs is necessary.

The installed gas devices have to be checked according to the German 'technical rules for liquid gas' (TRF) by an expert every two years.

The occurred checks have to be put down into the enclosed test certificate.

[4] Loading

The maximum additional loading results from the difference between the car's actual unloaded weight and its permitted total weight.

The unloaded weight is given in the vehicle letter. It refers to a standard equipped vehicle including full fuel tank and 75 kg for the driver (regarding §42 StVZO). By adding on-build constructions the car's unloaded weight will automatically rise.

Heavy objects should be stowed away if possible in ground nearness and above the axes or near to them. In the upper cupboards only light objects should be stored. Pay attention to the equal weight relations on the left and on the right.

Roof load

Baggage may not be loaded directly on the roof surface.

We recommend a HOBBY-roof carrier with special connections for optimal load distribution. The allowed roof load is 50 kg.

[5] Control before every journey

1. Servicing carried out ?
2. First aid box and warning triangle available ?
3. Mounted or put under auxiliary supports removed ?
4. Allowed total weight and max. axle loads not exceeded ?
5. Examinations prescribed from the chassis manufacturer like traffic lighting, brake effect, petrol and cooling liquid level, tyre pressure and maturing state carried out ?
6. Are all 220 V and 12 V electric devices of the residential part in function ?
7. Motor battery and booster battery checked ?
8. Doors, windows and skylights closed ?
9. Load slide-firmly stowed away ?
10. Outside mirror properly adjusted ?
11. Protect all liquids - also in the fridge - against running out ?
12. Gas bottles' main valve and quick stop valves of all gas devices closed ?
13. Gas bottles fastened ?
14. Drain valve of the sewage tank closed and lengthening tube fastened in clamp bells ?
15. 220-V-electric cable removed from the outside socket ?
16. To avoid ratteling noises a thin foamed plastic mat (sponge or cleansing cloth) should be put between cooker's rust and hose metal of the cooker.
17. When the refrigerator is required during the journey it has to be switched to 12-V.
18. Tables bolted for traveling ?
19. Before re-fuelling your camper all open fireplaces like storage water heater, heating, cooker and fridge in gas mode are to be extinguished !
20. Seat belts of all passengers fastened ?

[6] During the journey

As a driver you are responsible for the facts that ...

1. the persons riding with you remain on their seats. During the journey only the seats equipped with seat belts are to be used. In addition one seat (on each bank ?) in the rear seat group at the outer wall may be taken. Here the person is protected by the installations (wardrobe, toilet space) against forward impact.
2. the door lock does not become opened.
3. the before mentioned safety measures are preserved.

Avoid every unnecessary, jerky braking and banked speeds, especially on bad streets by circumspect driving manner.

Do not underestimate the height and width of your HOBBY-camper.

Attention !

When assembling a roof suitcase, attach an information sign about height of the vehicle clearly visible on the dashboard.

[7] After the journey / Wheel change

1. If possible, select horizontal stand for the camper.

2. Engage a gear and attract handbrake.
3. Do not forget to switch the fridge to gas mode or 220 V mode, because the 12-V care switches off automatically with standing engine.
4. For additional support of your camper we recommend the assembly of caravan props. Please enquire with your HOBBY-dealer.

Wheel change

The wheel change on the front axle and rear axle is carried out according to the manual of the vehicle manufacturer.

[8] Seat Adjustment

The single seats in the driver's cab can be shifted forwards and backwards; the back supports can be adjusted in its inclination.

The pilot's seats, which are delivered as special equipment, are delivered with adjustable armrests and on demand swiveling.

The armrests are adjustable in height according to version by turning of a knurled-head screw on the underside of the armrest or by tipping out laterally.

To be fully able to use the seat adjustment of the driver seat forwards or backwards, the back support of the front bench of the medium seat group (not with type B) is arranged hinged. It is held by a push bolt in the vertical position.

[9] Rebuilding of the seat groups for sleeping

The seat groups are changeable into a couch-level. After operating the locking lever and drawing forwards the cushion bar-type handle in the table rack, the table rack can be let down. Pull together the seat upholsterers up to middle of the table and fill the nascent space with the put down back supports. The back supports are to be turned in such a way that the broader V formation side lies at the outer wall.

To the completion of the couch surface in the rear a small additional cushion is provided. Let down the rear wall table up to bedding box height. Round corners and back support are not needed to make the beds.

[10] Operating of the outer door lock

Opening:

Put the key into the lock turn to the right until the stop, at approx. 60°. By operating the twist grip the door can be opened. From inside the door is opened by pressing down the doorknob.

Closing:

When closing the door it has to be taken care that the inner doorknob is in horizontal position and not at an upward angle, because of possible damage for the lock and door case.

Shut the door, turn the key 90° to the left so that the bolt audibly clicks in.. Then turn the key vertical again and remove it from the lock. From the inside the door can be locked by pushing the doorknob upwards.

[11] Operating of the flap windows and sliding windows

Flap windows (kitchen and middle seat group)

Opening:

Unlock the window by turning the turning grasps. The window can be opened by raising the window wing until approx. 80°. The exhibitors engage automatically.

Closing:

By raising the window wing slightly, the exhibitors will release. Shut the window and lock it.

Night position:

The counter bearings of the turning grasps are provided with two cams. If you use the outside cam with the bolt of the turning grasp, the window is opened to let the air pass but is nevertheless locked.

Sliding windows

Opening:

Unlock the window by pressing the closing wedge and slide the window open..

Closing:

Push the window to close it, until the closing wedge engages audibly.

[12] Airing

To provide a comfortable room climate in the car interior a sufficient and exhaust airing is essential.

Due to the relatively small air quantity together with no sufficient air interchange, the number of passengers and the use of the gas cooker can produce condensed moisture formation.

Please consider that humans deliver substantial quantities water by respiration and body evaporation. Also, humidity is possibly carried into the vehicle by wet clothes. By burning gas likewise water is set free. And using the digester and tapping warm water will produce vapor, which can settle as condensed moisture.

Ensure therefore by carefully coordinated airing - independent of weather and external temperature - for sufficient air interchange. By doing so you will create in combination with the heating system a pleasant room climate also during the cooler seasons and in winter camping.

[13] Water Supply

1. Fresh Water

Your HOBBY-camper is equipped with a 115-litre fresh water tank. It is in rear bed of the middle seat group.

Filling is done from the outside by the connectable filler neck, into which the tank ventilation is integrated.

At the top is the cleaning access opening; the cover integrates the level announcement.

At the tank bottom - by the inside attainable - is a drain plug screwed in.

In a special mounting plate a powerful submerged pump is let in the tank, which supplies the taps in the toilet area and in the rinse as well as the storage water heater with water.

Attention !

Do not let the submerged pump run dry - without water -, as it will take damage, which does not fall into the guaranteeing !

2. Waste water

For the admission of the wastewater a wastewater tank is installed under the vehicle floor. The wastewater of sink, washbasin and showering tub is led over a hose and/or a tubing system into the tank.

The emptying is possible by means of a drain valve, which is fastened to a extension spiral hose. The spiral hose is fastened in the rear of the vehicle floor with clips.

To empty the tank the extension hose with the drain valve is to be pulled from the clips. Before start of the trip it should be fastened again accordingly.

3. Storage water heater

The storage water heater is placed in the front bed box of the middle seat group.

The remote maintenance (operating part) of the equipment is attached at the driving cab post behind the driver's seat in pleasing height.

To empty the storage water heater - particularly important when there is danger of frost - switch the pump off and open the hot water taps in rinse and toilet area and the drain valve with the red lever at the vehicle floor open before the storage water heater. Close the drain valve only after complete emptying.

Please, consider the manual of the manufacturer.

[14] Gas equipment

Heating and the storage water heater are operated with liquid gas - propane or butane -. The fridge can be operated besides 12 V or 220 V current also with gas.

The installed gas equipment in your HOBBY-camper is implemented according to the technical guidelines of "liquid gas for vehicles, work paper G 607",.

The proper installation and a leakage test is being proved by an authorized expert for gas storage devices for each vehicle with the attached gas inspection certificate.

The left cabinet of the kitchen block serves as container for the gas bottle. Here are also the gas pressure-reducers (gas controllers) and stop valves assigned to each consumer. These are marked with symbols.

The operating pressure of the equipment is indicated in the gas inspection certificate.

If equipment is not used, then the appropriate stop valve is to be closed.

For safety reasons close the main valve at the gas bottle during disuse of the gas units and before departure.

Repairs and changes at the gas equipment require a new leakage test. Have it done only by an authorized specialist.

Use only gas bottles, which are provided with a valid check mark. The gas bottle is to be fastened anti-swiveling with the mounting plate.

At temperatures under 0° C absolutely pure propane liquid gas is to be used, since butane does not change no more at lower temperatures into the gaseous condition.

Please, inform yourself about gas storage devices and their installation at your HOBBY contract dealer.

Attention !

Have the gas equipment of your camper examined in the prescribed two-yearly rhythm by an expert and have it acknowledged in the gas inspection certificate.

[15] Cooker

Putting the cooker into operation

Lift up cooker and rinse covers. To let the covers remain in opened position, they become secured by folding out of the spraying protection.

After opening the main valve and the cooker's stop valve, press the switching cock grasp of the desired gas burner inward and turn it to an opened position, while igniting the gas flame at the burner pot.

The switching cock button must be pressed then still some seconds, until the ignition safety device valve keeps the gas flow open. When the flame is going out the ignition safety device valve will automatically lock the gas flow.

Please note that before start-up of the cooker the blue protective plastic film at the spraying protection is to be removed.

Attention !

The gas cooker may not be used for heating. When using the cooker, the skylight in the kitchen area has to be opened.

[16] Refrigerator

The refrigerator can be operated alternatively with 12 V, 220 V or gas. Condition for perfect working is a horizontal position of the refrigerator. While driving the refrigerator may not be operated with gas.

Covers are available in the specialized trade for the refrigerator ventilations and exhausts. **They may not be used during the refrigerator operation.**

Further references you can find in the special operating instructions.

[17] Heating

The gas heating with 3000 or 5000 kcal heat amount in connection with blower and warm air device ensures an even distribution of the warmth. Exact references on the handling of your TRUMA heating you can find in the enclosed operating instructions.

Independently of that, we would like to give you some hints for the operation of your heating :

Before using in the heating season examine the batteries of the ignition automat whether these are still functional. At least one spark clock per second should be audible. For battery replacement only use such of type "mignon alkali".

When the heating is going out in gusts of wind use a TRUMA chimney extension.

When doing winter camping in snow-rich areas use a TRUMA chimney extension.

Check your TRUMAVENT blower regularly on contamination of the exhaust wheel and clean it if necessary.

Neglect leads to an imbalance of the exhaust wheel with increased noise backdrop.

When heating with the TRUMAVENT blower make sure that also the blowers are opened. These could have adjusted themselves while driving to your resort.

The regulation switch of the warm air blower is at the wall of the wardrobe in the back area of the vehicle.

Attention !

Respect absolutely that damages at the rising tail pipe have to be avoided. Never use the area behind the heating as reservoir.

Never lock or cover the exhaust chimney.

[18] Chemical Toilet

Please make the use and care in accordance with the manual of the manufacturer.

[19] Elektrische Anlage

1. 220-V current supply

The mains connection 220 V is made by means of cable connections with CEE clutch by the external plug socket. It is protected by a two-pole 10-ampere automatic fuse, which is placed in front bed of the middle seat group.

Attention !

When connecting the 220-V extension cord it is to be respected that the connection to the external plug socket of the camper is first made and only then to the current tap. When removing first the connection at the current tap is to be taken out.

2. 12-V current supply

12-Volt power supply is achieved by a main battery (engine battery) - battery 1 - and an booster battery - battery 2 -.

The motor battery is assigned, as with each car, to the chassis and supplies starters, headlights, backlights, braking lights, flashing and outlining lights. It is in the engine compartment. For servicing and maintenance please refer to the manual of the vehicle manufacturer (FIAT PEUGEOT). This part of the electrical system corresponds to the original version of the vehicle manufacturer.

The booster battery supplies the living section and the devices inserted here. It consists of a maintenance-free 88-Ah (ampere-hours) battery, which is placed under the driver's seat.

With switched on main switch for battery 2 and running engine the vehicle's generator loads both batteries.

With engine switched off the batteries are separated by a relay. Thus it is prevented that the engine battery will discharge over the consumers in the living section. The starting ability of your camper remains.

All 12-Volt-consumers are supplied by the booster battery.

Attention !

The discharging of battery 2 below 10.5 V is to be avoided. An over-discharging harms the battery and shortens its life span **substantially**.

With mains operation the booster battery is charged by the inbuilt battery charger (see also section, "electronic load regulation").

The engine battery is not charged in mains operation.

Plans of the electrical system / electrical plans

1. Circuit diagram

In the course of the advancement, different electrical controls have been developed, for which the circuit diagrams are different. In order to allow an allocation of the circuit diagrams to the board control center and to the battery charger, both devices are provided with a check number (sticker). On the circuit diagram the validity of the check number is indicated. Please note the check number of your vehicle in this manual in the field of the vehicle specifications planned for it.

If the circuit diagram attached to this manual should not be assigned to the equipment check number of your camper, then please request the pertinent plan with indication of the check number from us.

2. Fuses

12 volt

Equipment	fuse type	strength	place
Battery 1 (engine battery)	automat	20 A	BCC
Battery 2 (booster battery)	automat	20 A	BCC
Refrigerator	glass tube	16 A hs	BCC
Heating	glass tube	1,6 A hs	BCC
Storage water heater	glass tube	1,25A f	BCC
Pump	glass tube	4 A hs	BCC
TV	glass tube	2 A hs	BCC
Light (front living sections)	glass tube	8 A hs	BCC
Light (rear living sections)	glass tube	8 A hs	BCC
Battery charger	glass tube	4 A hs	battery charger

220 volt

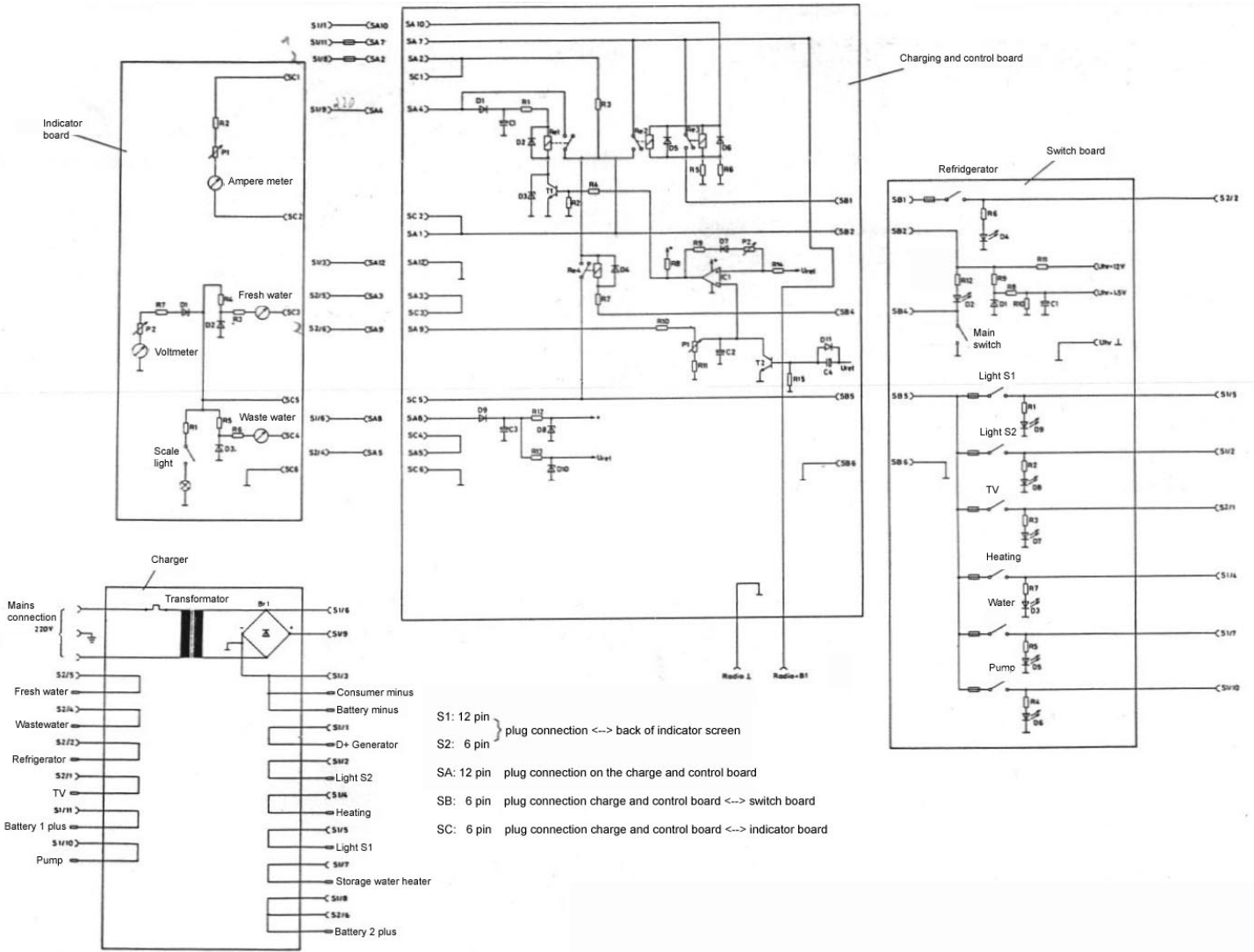
Entrance plug socket automat 2 x 10 A bed box in front left

hs = half slowly-acting

f = fast

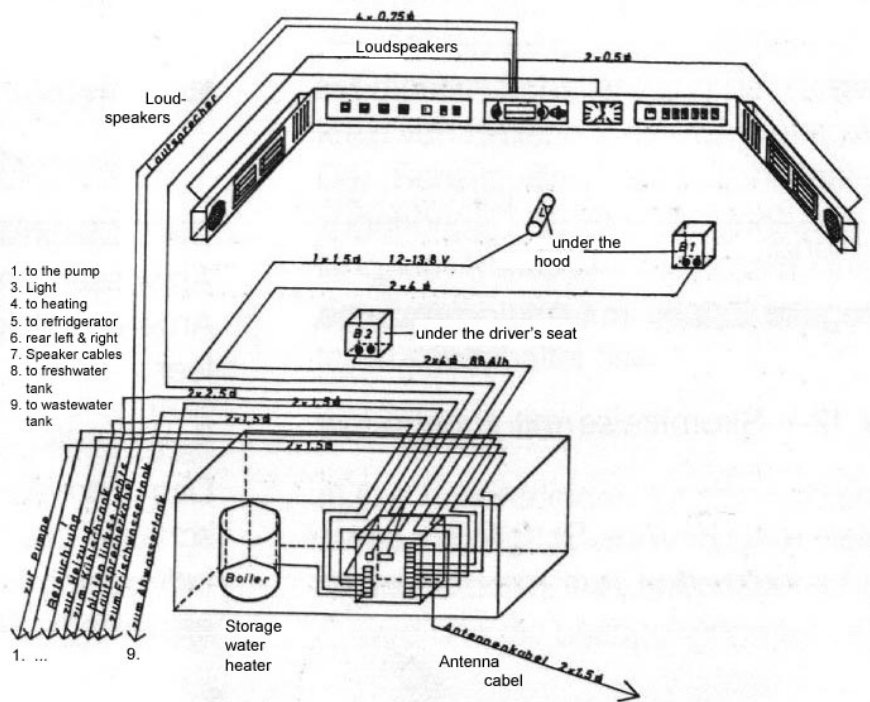
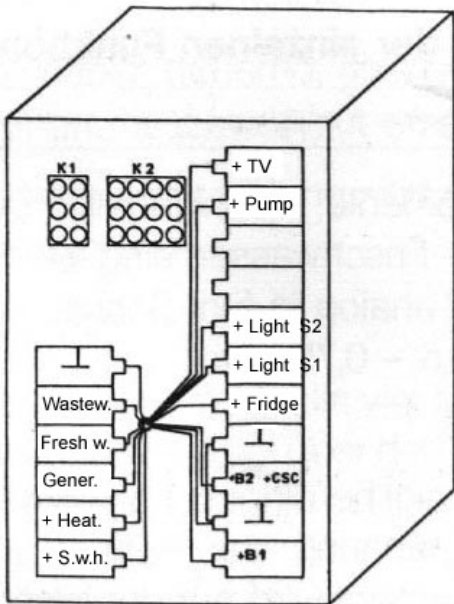
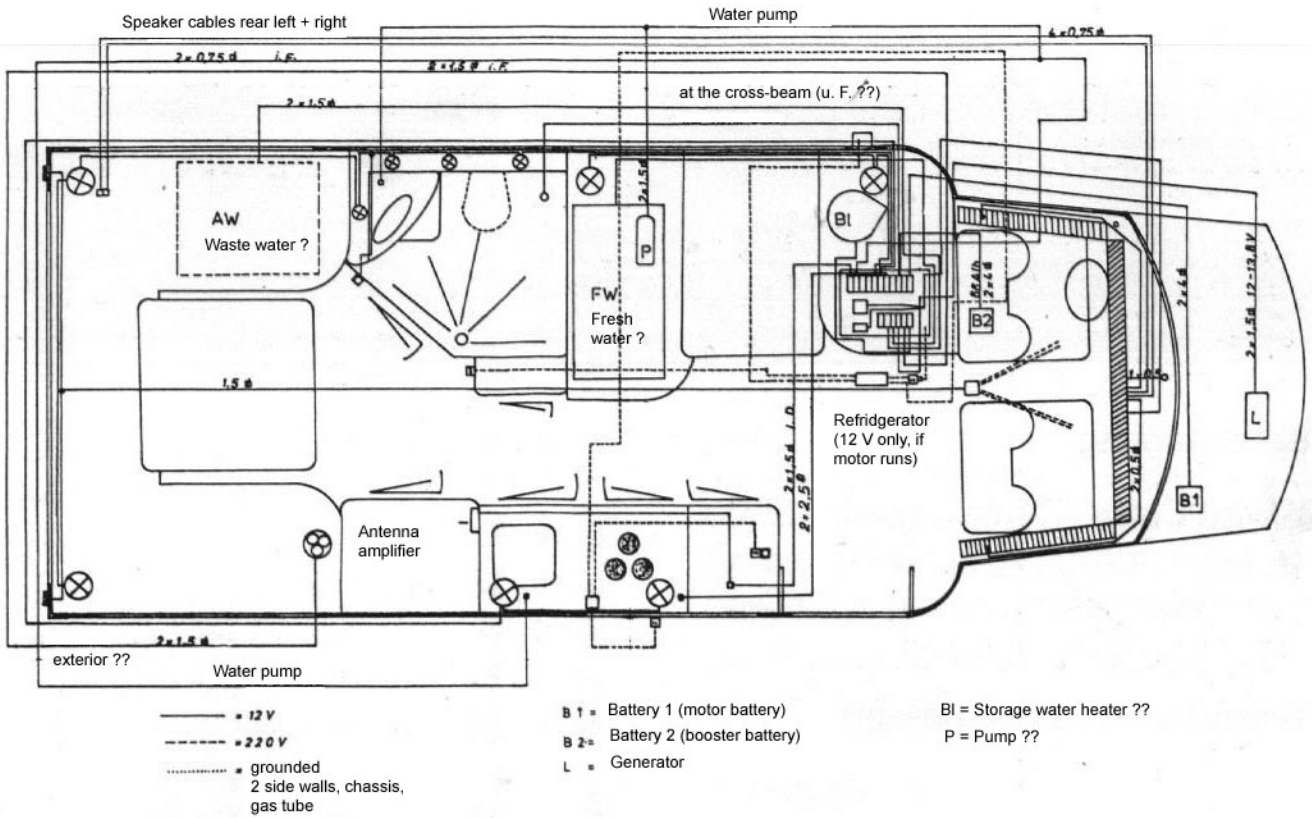
BCC = Board-Control-Center

Circuit diagram HOBBY Board-Control-Center (BCC) Version 5, valid for check number 1917 (red)

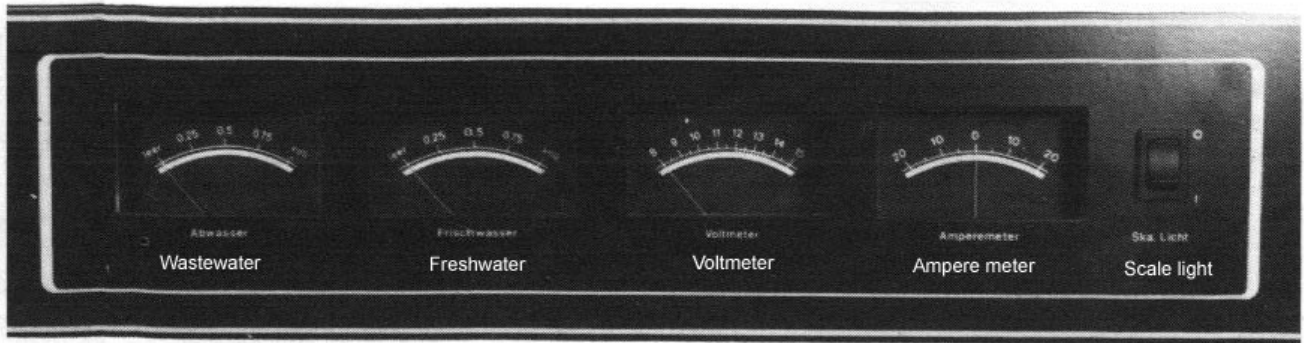


Version 4 valid for check number 2487-2489 (yellow), 2230-8975 (yellow), 0242-1916 (red)
Version 3 valid for check number 2046-2723 (yellow) except 2487, 2488, 2489 (yellow)
Version 2 valid for check number 1014-2040 (yellow)

Cabling plan for Camper "HOBBY 600"



[20] HOBBY-Bord-Control-Center



General Description

Several as well practical as necessary functions for the operation of your camper are inserted in the HOBBY-Board-Control-Center. They are controlled electronically to a wide extent.

The HOBBY-Board-Control-Center contains the following devices:

1. Measuring instruments
 - a) Waste water
 - b) Fresh water
 - c) Voltmeter
 - d) Ampere meter
2. Scale lights
3. Electrically controlled clock with analog display, lighted
4. Main switch 12-V circuits with associated light emitting diode



5. Switch screen with circuit breakers as well as associated light emitting diodes for the individual electric circuits
 - a) Refrigerator
 - b) Heating
 - c) Storage water heater
 - d) Pump
 - e) TV
 - f) Light
 - g) Light
6. Automatic circuit breakers for battery 1 (engine battery) und battery 2 (booster battery)

Description of the Individual Functions

1. Measuring instruments for waste water and fresh water

The measuring instruments (tank level displays) for wastewater and fresh water are lit. The display shows analog in five steps:

empty - 0,25 - 0,5 - 0,75 – full

2. Voltmeter

The voltmeter indicates with switched on 12-V-main switch the tension of battery 2. It is lit and indicates only the interesting range from 8 to 15 V. The ideal condition is reached with 12 to 14 V and is marked hatched on the scale.

If the tension of the booster battery should go below 10,5 V, then as much as possible 12-V-consumers must be switched off, and the booster battery must be reloaded by the generator or by mains connection, in order to avoid an over-discharging of battery 2.

3. Ampere meter

The ampere meter is lit and measures the charge and discharge current of the booster battery flowing in the entire electric equipment. The 0-position is therefore in the center. The pointer is in 0-position, if charging and discharging are equally large or no current at all flows. If charging is larger than discharging, then the pointer is on the right of the 0-position. If the pointer deflects to the left, then discharging is larger than the charging.

The display works continuously, thus independently of the position of the 12-V main switch. To avoid power losses the measurement is done electronically.

4. Scale lighting

Scale lighting for all four measuring instruments as well as for the clock is turned on with the power switch "Ska.Licht".

5. Clock

The clock is electrically controlled. The time indication is analogue. The clock is lit. The operation is done from the front. The clock is connected constantly with the main battery and thus also in operation, if the entire electric circuit is switched off.

6. Switch screen

With the circuit breakers on the right side of the HOBBY board control center the individual functions - refrigerator, heating, storage water heater, pump, TV, light - are operated. Associated light emitting diodes determine whether the appropriate equipment is ready for use. All above-mentioned functions are protected accordingly. The associated screwed fuses are placed above the light emitting diodes.

7. Main switch - 12 Volt

The 12-V main switch is also on its right side of the HOBBY on-board control center. With this switch the entire 12-V electric circuit of battery 2 can be switched on/off. The associated light emitting diode indicates the status of the switch. To avoid an discharging of the booster battery during longer standing times of the camper, this switch should be switched off.

8. Light emitting diodes

a) The light emitting diodes for the individual consumers light up, if the appropriate equipment is actuated by the power switch and the pertinent device is properly working. Please note, that the light emitting diode of the refrigerator does not shine while the engine is not switched on or not running.

b) The light emitting diode assigned to the 12-V main switch indicates whether this switch is in "ON" or "OFF" position.

Electronical charge control

1. Charging capacity

The charging unit has a continuous performance of 180 Watts, which covers under normal conditions the need of the user. For some time substantially higher performance can be taken out of the booster battery working in buffering mode.

2. Charging and discharging with mains connection

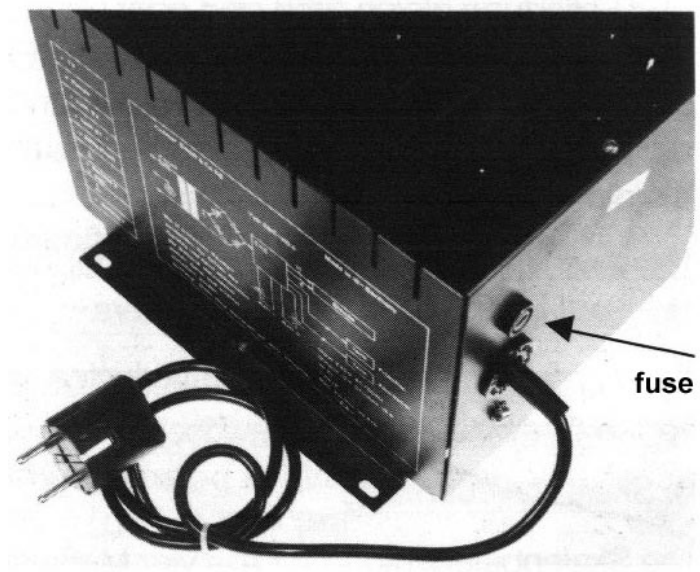
As soon as the camper is connected to the 220-V net and the main switch battery 2 is "ON", the booster battery is charged.

If the booster battery reaches a tension of approx. 14.4 V, the charging is switched off, in order to avoid gassing of the battery. If the battery voltage goes below 12.5 V, charging automatically re-starts. The Starting and stopping of the charging with mains connection can be observed on the inbuilt voltmeter and ampere meter.

To recharge a discharged booster battery completely with mains connection a loading duration of approx. 12 hours is necessary.

If 12-V-consumers are switched on during this charging period, the charging time extends accordingly.

In case of a full discharged battery high charging currents can release the automatic circuit breaker of battery 2. Thus if no more charging of battery 2 is indicated, although the battery voltage is below 12 V, then the automatic circuit breaker of battery 2 and the fuse at the battery charger have to be examined.



3. Charging while driving

As long as the engine runs, engine battery and booster battery are switched parallel and loaded by the generator. The charge or discharge current flowing can be read off from the inserted ampere meter. Further connecting the generator can be observed with running engine by a rise of the main battery tension, which is indicated, with switched on 12-V main switch, by the voltmeter.

To recharge an discharged booster battery completely while driving, a driving time of ... hours is necessary. If any 12-V consumers (incl. outside lights, windshield wiper etc.) are switched on during this period, the charging time extends accordingly. The refrigerator may be switched on only if the indicated charging current is smaller than 5 A. A deeply discharged battery ...

Switching on of 12-V consumers while driving cause high charging and loading currents. These high currents can lead to releasing the automatic circuit breakers of battery 2 and battery 1. Thus should no more current be indicated while driving with switched off 12-V consumers, then these circuit breakers have to be examined and be re-pushed, if necessary.

4. Refrigerator operation without mains connection

With running engine, e.g. while driving, you can operate the refrigerator over the booster battery. Thus the switch on the switch screen of the HOBBY board control center and the 12-V switch at the refrigerator must be switched on.

With engine stop, the refrigerator is separated automatically from the booster battery, in order to avoid an unintentional discharging of the battery.

With vehicles of the type PEUGEOT Diesel the signal "engine runs " (D+) is missing. Here the two batteries are switched parallel as soon as the ignition is switched on. Furthermore, with these vehicles the refrigerator can be already operated - with the switches at the refrigerator and at the operating screen switched on - with 12 V, if the ignition is switched on.

To avoid here a discharging of the batteries by the refrigerator during the glow phase and starting phase, the 12-V mode of the refrigerator should be switched on only if the engine runs.

Repair note

With the exception of fuse changes, all remaining repairs are to be accomplished exclusively by authorized specialists of the company "HOBBY-Wohnwagenwerk" (HOBBY caravan production). When changing the fuses, it has to be respected absolutely to use only the indicated fuses.

Please consider all these hints, which serve mostly to your own safety, carefully, and you will enjoy much your HOBBY board control center.

Check list for the charging of battery 2 with mains connection (valid for version 4 and 5)

1. Make mains connection.
2. Switch on electrical consumers until the tension of battery 2 falls below 12 V. Changing of battery 2 is indicated on the voltmeter - with main switch "ON" - by a rising tension.
3. With all consumers switched off (and a tension below 14.4 V), the ampere meter must deflect to the right.
4. If the ammeter does not deflect to the right, examine circuit breakers for battery 2 and melting fuse at the battery charger.

Check list for the charging of the booster battery while driving

1. Switch main switch on.
2. Switch off all consumers, except the refrigerator.
3. Switch off 12-V supply of the fridge with the refrigerator's switch.
4. Start Vehicle and have the voltmeter observed during starting.
5. As soon as the engine runs, the tension must rise.
6. Charging current is indicated.
7. Refrigerator LED must shine, otherwise examine signal D+ at the battery charger. With the engine running, a tension between 12 and 15 V should be indicated.
8. If the refrigerator LED shines and the tension of battery 2 does not increase, examine the circuit breakers of battery 1 and 2 as well as the connections of battery 1 and 2 at the battery at the charger.

Radio installation

Assembly instructions for the installation of a radio into the HOBBY board control center

Attention !

Before you start working on the electrical board equipment, pull out the plugs with 12 and 6 pins at the battery charger, since otherwise the danger of short-circuits and destruction of electronic elements exists.

In order to integrate a radio into the operating screen, first the four screws are to be loosened, which are in the separate screen. The four attachment latches, in which the screws are fastened, can be bent or broken off inwards.

After bending or removing these mounting straps, a radio cutout in accordance with DIN (German industry norm) is available, into which all standard radios will fit.

For the electrical connection of a radio, the following connections are available:

1. Radio+B1
2. Radio mass
3. Loudspeaker in front right
4. Loudspeaker in front left
5. Antenna
6. Cables for loudspeakers in the back right and left
(in the cabinet at the rear left)

When connecting a radio, the following points are to be considered:

The current supply of the radio uses the engine battery (battery 1). This has the consequence that with switched on radio and long standing times of the camper (i.e. engine does not run) the engine battery will discharge so that in extreme cases the vehicle cannot be started any longer. Timely charging with the generator (run the engine) is to be respected. (This situation is comparable with each passenger car with inserted radio.)

The connection "Radio +B1" is protected with the 20-A circuit breaker of battery 1. It is thus advisable to connect the radio behind an appropriate fuse with a lower value. The two connections "loudspeaker in front right" and "loudspeakers in front left" end behind the right and left loudspeaker screens, in which also the cassette bays are placed. After removing these screens, appropriate loudspeakers can be inserted.

If disturbances of the radio reception should arise while the engine is running, then screening measures at the interference sources (generator, windshield wiper motor etc.) must be seized.

[22] Cleaning and care

1. Exterior vehicle care Wash your camper as often as possible using customary cleaning agents.

The acrylic glass windowpanes of the structure (everything except the windows of the driving cab) require however a special treatment. They may not be cleaned with cleaning agents, which contain softeners or solvents, or be treated with abrasives. Do not abrade dirty windows dry. - Danger of scratches and cracks -

Clean not too dirty windowpanes using clear water and a sponge or a soft cloth. Rub dry with dust free soft cloth. Clean strongly dirty windowpanes with a cleaning agent especially suitable for plastic.

Otherwise, the care can be done as with any passenger car.

2. Pads and curtains

Do not wash or iron. If necessary, clean carefully with the foam of a fine detergent (e.g. drying foam).

In case of an important contamination take off the cushion covers and/or curtains and have them cleaned chemically.

3. Carpet

Clean with vacuum cleaner and/or brush, if necessary, treat with carpet foam or shampoo.

4. Velour coverings at side panels, furniture and ceiling

Clean with customary fine detergents and remove dirt arrears with a sponge or, if necessary, with a vacuum cleaner.

5. Furniture fronts, kitchen cover, desk tops

Clean with a damp cloth or sponge, rub dry with dust free soft cloth. Use mild furniture preservative agents. As a precaution make a treatment test at a hidden furniture part first.

6. toilet area

Treat washbasins, cowl and showering tub with customary cleaning agents. Never use abrasives.

7. High-grade steel rinse

Care with customary liquid finery means.

Notes for winter operation

1. Winter camping

With sufficient heating of the interior freezing of the freshwater tank, the storage water heater and the fresh water lines is not possible.

At deeper outside temperatures mix antifreeze or common salt to the wastewater.

Keep, if necessary, with stationary operation the discharge of the wastewater tank opened and catch the wastewater separately.

2. Frost protection

To protect the water supply equipment the following measures are to be seized:

- a) Empty the wastewater tank.
- b) Empty the freshwater tank by means of a pump, if necessary using the drain plugs.
- c) Empty the storage water heater completely. Open all taps and switch pump switch at the board control center to "0" (zero).

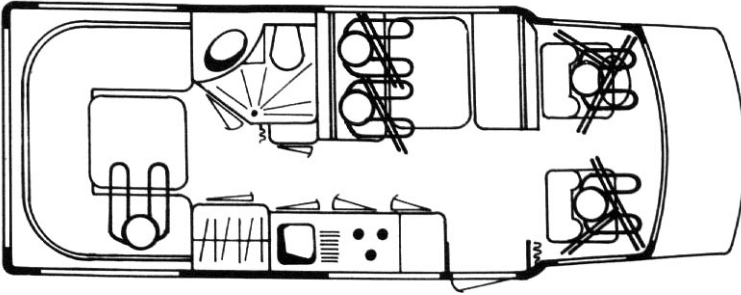
Please, consider point 3 of the section "[13] water supply", also.

Disuse in the winter

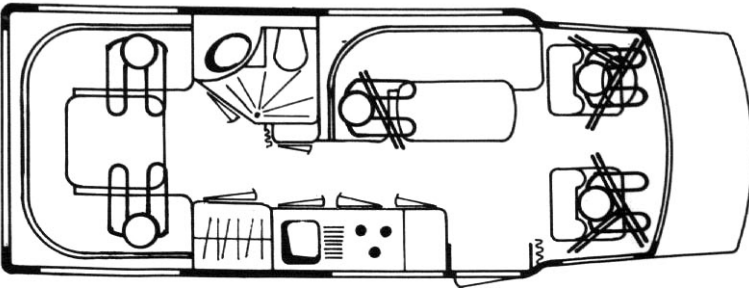
If your camper is not used during the winter months, the following recommendations should be considered :

1. Consider the recommendations of the vehicle manufacturer.
2. Remove eventual rust places and repair smaller damages of lacquer.
3. Wash the camper and perform a lacquer care.
4. If necessary repair or renew underbody seal.
5. Remove booster battery and if necessary engine battery.
6. Empty water supply equipment.
(see "notes for winter operation".)
7. Treat rubber extrusions with talcum powder or glycerin.
8. Clean reservoirs and refrigerator and leave open.
9. Set up pads or store them separately.
10. Air in certain time intervals and heat now and then.
11. Remove batteries from the ignition automat of the heating.

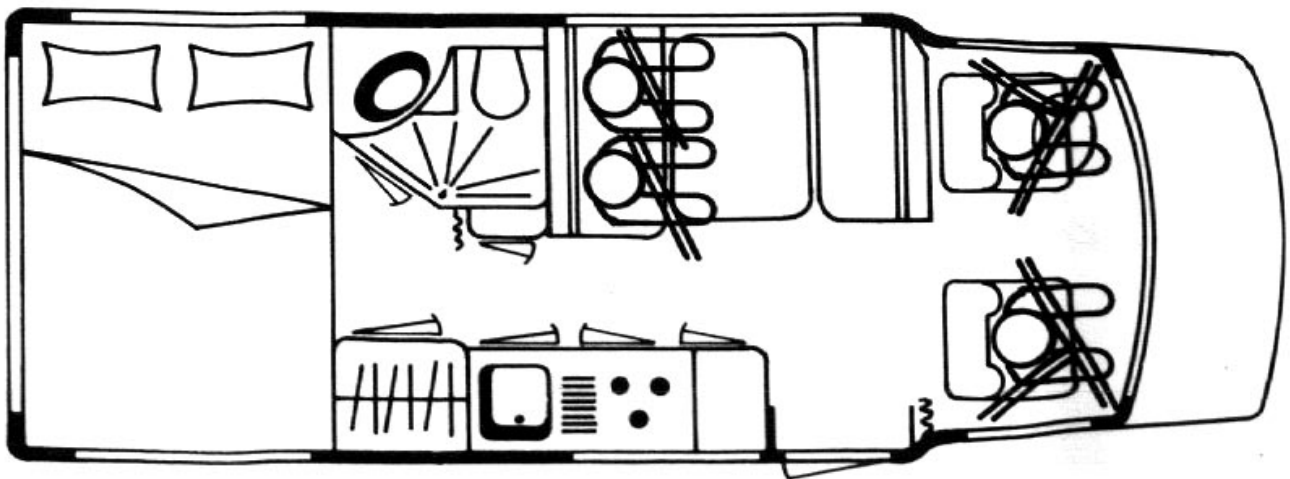
Sketch variants with seat layout while driving



Sketch Type A



Sketch Type AF



Sketch Type B

Technical data HOBBY 600

	Gasoline	Diesel	Turbo-Diesel
Chassis	FIAT PEUGEOT	FIAT PEUGEOT	FIAT
Type	Ducato or J5	Ducato or J5	Ducato
Wheel base	3653 mm	3653 mm	3653 mm
Capacity	2,0 l	2,5 l	2,5 l
kW/PS	FIAT 55/75 PEUGEOT 58/78	FIAT 55/75 PEUGEOT 54/74	FIAT 68/92 PEUGEOT 70/95 (since end of 87)
Tank content	70 l	70 l	70 l
Fuel	Gasoline	Diesel	Diesel
Maximum speed	125 km/h	115 km/h	125 km/h
Tire size	185 R 14	185 R 14	195/75 R 16
Length entirely	618 cm	618 cm	618 cm
Width entirely	218 cm	218 cm	218 cm
Height entirely	255 cm	255 cm	258 cm
Standing height approx.	186 cm	186 cm	186 cm
Certified for max.	5 persons	5 persons	5 persons
Permissible supporter load (braked/without brakes)	1800/725 kg	1800/725 kg	1800/750 kg
Dead weight ca.*	2250 kg	2350 kg	2405 kg
Permissible total weight	2800 kg	2800 kg	2800 kg
Freshwater tank	115 l	115 l	115 l
Waste water tank	130 l	130 l	130 l

* Weight measured unloaded with standard equipment in accordance with § 42 StVZO (German traffic permission law) with filled fuel tank and including driver.