

**1984/85**

**HM 650/660**

**englisch**

INFORMATION FOLDER

Hymermobil ..., series number .....

Hymermobil  
engleich

84/85

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OPERATING INSTRUCTIONS

HYMERMobil 660 (with Porto Potti WC)

on Daimler-Benz chassis

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## INTRODUCTION

Dear HYMERMOBIL-buyer,

Congratulations on the purchase of a HYMERMOBIL. You will soon find out how enjoyable travels with a Hymermobil are. You will be free and independant, you can make your own decisions on where to go and where to stay. You can look for a Grand Hotel to dine, if you want to, or you can prepare a delicious meal yourself in your own kitchen.

Many cares and necessities - unavoidable with other means of travel - are taken from you. Everything you need for everyday life is contained in your Hymermobil.

The vehicle entrusted to your care has a heart which has been tested many thousand times over - the motor of a commercial vehicle and an equally trialled and tested chassis. A worldwide service organisation is at your command, as you can see from the attached list of service stations supplied by the chassis manufacturer.

We have made these operating instructions as short as possible, in order to give you the most important information and reference points.

You will find detailed operating instructions in the following pages for:

- the chassis
- the built-in fridge
- the gas-operated heater for the living area
- the hot-water device
- and various other devices belonging to the technical appointments of the vehicle.

For specific questions, please contact your dealer, your service station or us direct:

Service department ERIBA-HYMER  
P.O.Box 1220  
D-7967 Bad Waldsee  
West Germany

Telephone: (0)7524-700 219/218/217  
Telex: (0)732792

Please always give the Hymermobil order number or coachwork number!

And now it only remains for us to wish you a good journey!

## GENERAL INFORMATION ON THE CHASSIS

We are passing on to you the operating instructions from the chassis manufacturer. There may be some deviations (particularly in regard to the coachwork) as a result of the special construction of your vehicle, but these will be easy to recognise.

But the original operating instructions will give you all you need to know in the most essential points, e.g. the chassis or the motor itself.

In divergence from the standard equipment, your Hymermobil has larger windscreen wipers and a correspondingly stronger wiper motor because of its large windscreen. In case you need spare parts, the following details are essential:

Windscreen wipers	600 mm, Bosch,	part number	339 811 0850
Wiper arm	Bosch		339 810 0975
Wiper motor	Daimler-Benz,		608 820 0042
Windscreen	Hymer,		38 644
Windscreen	Sekurit,		99 00 10
Colour of the outer metal sheeting:			RAL 1015 ivory, RAL 8007 brown.

The starter battery is not discharged when the systems in the living section are operated. As with any other car however, the starter battery feeds the headlights, indicators, rear lights and windscreen wipers. There is a separate battery for the living section which is automatically charged when the motor is running.

Before fuelling the vehicle, make sure that all open fire points such as hot water device, heater, gas cooker and fridge (gas operation) are turned off.

### Before each journey

please make sure that:

1. the door-step has been retracted,
2. the catch on the door has properly clicked into place,
3. the additional bar on the upper half of the door is in place (also acts as child's safety device)
4. all doors and flaps are closed
5. no loose objects are lying around in the rear of the vehicle, and above all, make sure that all heavy articles such as bottles are correctly packed away
6. all 'open fire points' such as the gas cooker and the hot water device are turned off; the fridge must be turned off gas operation.
7. the fridge is turned on to 12-volt operation during warm weather. 12-volt operation is only possible when the motor is running.
8. the door-catch of the fridge is in place
9. the curtains are tucked or tied into their holder-loops
10. the double bed above the driver's and passenger's seat is in the final upper position and strapped into place with the belts
11. all passengers are seated in their places

12. the left and right-hand outer mirrors and the rear-view mirror are adjusted correctly
13. your seat is in the right position
14. the supporting jacks, if you have used them, are removed from under the van
15. the openable windows of the living section are securely closed
16. the boot flap is closed
17. the drainage valve of the waste-water tank is closed
18. the screw-tops of the fresh-water canisters are properly closed.

### Flip diner

The front bench-seat of the centre sitting group can be used facing in or away from the driving direction, as required.

In order to convert the bench into a forward-facing position, press the lever above the floor on the gangway-side of the bench and move the bench backwards as far as it will go. The bar must then snap into place again.

Pull the side cushions outwards for about 15 cm. Tilt the main cushion and backrest into the required position; you will hear the mountings click into place. Push the side cushions against the bench again. The safety belts are then drawn through between the seat cushion and the backrest.

### During the journey

As the driver, you are responsible for the following:

1. The passengers must remain in their seats.
2. The door-lock must not be opened.
3. The safety precautions mentioned previously must be observed.

Avoid any unnecessary or sudden use of the brakes, and do not drive at high speed on bad roads.

The use of the safety belts should be second nature to you.

### After the journey

Put the vehicle into gear and put on the hand-brake (or in the case of an automatic gear-box, put into the 'P' position).

Switch the fridge onto gas or 220V if necessary.

If you want to use additional jacks, we recommend using 2 to 4 additional supports, no. 97814.

### Entry step

In order to move the entry-step into or out of position, use the lever at the forward end of the kitchen block.

To lower the step: Press the lever in the driving direction, so that it disengages at the edge of the floor cutout. Then press the lever downwards (towards the centre of the vehicle) in a semi-circular movement, at the same time pressing slightly outwards.

To pull in the step: Pull the lever obliquely upwards as far as it will go, then press it towards the outer wall, until you feel it fall into place.

When the door-step is drawn in and the ignition is on, the red control-light must go out.

### Use of the door-lock

To open: Insert the key and turn to the right as far as it will go. The door can be opened by pressing the door handle.

To close: Close the door, turn the key to the left until it stops. When returned to its original position, the key can be removed.

### Use of the openable windows

To open: Release the fastener, swing the window open. When the desired position is reached, fasten the window in place by means of the levers on the two arms.

To close: Proceed in reverse order.

### Windows with 'night-position'

There are fastening-levers on the side window arms, by means of which the window can be placed in two positions:

- a) with a ventilating aperture
- b) in the fully-closed position.

### Use of the roof ventilator

- a) Ventilators in the rear living section and bathroom:

To open simply push upwards, to close pull downwards. The ventilator can be fastened in the 'ventilating crack' position: before closing the ventilator, wind up the spacers at all 4 corners.

- b) Wind-up ventilator in living section:

This can be lifted (opened) or lowered (closed) according to the direction in which you turn the handle. It can be adjusted to any height you require.

The mosquito net, which covers the whole roof outlet, is attached to buttons behind the rubber vent seal; these buttons are not visible from inside the vehicle.

## Ventilation

Ventilation is so important that we ask for your complete attention here. Think of the few cubic metres of air which the motor caravan holds. The windows and doors have rubber seals. When these are closed, there are hardly any chinks through which fresh air can penetrate into the inside. However, you understandably want a pleasant and oxygen-enriched atmosphere inside.

Incidentally, a human being consumes a considerable amount of oxygen, and a gas burner uses up further oxygen inside the vehicle.

### That is why you must ventilate!

Ventilate whatever the weather, summer or winter. A human being exudes up to a liter of water per day, just by breathing or perspiring. Water is also released when gas is burned. Please remember this when the humidity increases suddenly when the gas cooker is in operation, apart from the fact that a boiling kettle on the stove is the best method of producing condensation.

Provide for a constant exchange of air by ventilating in a conscious and balanced way. This is the only way to combat the problem of condensation in cold weather. By cleverly balancing the heating (by means of the efficient heater) with appropriate ventilation, you can produce a pleasant living climate inside the vehicle during cold weather and when camping in winter.

## Converting the beds

### a) Double bed in driver's cab

Slide the seat and back-rest of both driver's and passenger's seat right back. Undo the two belts attached to the roof for the additional stability of the bed. Then pull the bed downwards with both hands.

In order to prevent any damage, we advise that you close the curtains at the two side windows, before pulling the bed down.

### b) Rear bed

(Conversion only necessary in the case of version with rear sitting group). To remove the table-top from its pivoted holder, undo the upper milled screw. Then release the lower screw and draw the rotatable foot upwards out of its holder.

Lay two supporting rods (supplied with the vehicle) in the recesses of the side walls of the storage boxes, and now lay the table-top on these. Pull the two side cushions into the centre (onto the table), and insert the back cushions into the space beside the wall.

b) Conversion of the centre seating group

Raise the table at the front edge and lift it out of the rail on the wall. Grasp both tubes of the table leg in one hand below the positioning bracket, press together, thus releasing the leg from the standing position, and fold backwards. Put the table to one side.

Release the lever on the floor under the front bench, and pull the bench forward as far as it will go. Pull the side cushions of both benches about 15 cm outwards, then raise the bench slightly and pull towards the centre until an even horizontal surface is attained.

In order to widen the bed, pull the side cushions so far out that the additional cushion (under the back window) can be laid on top of the tubular supports. Then push the side cushions in again to rest against the bench cushions.

Now the table top can be stood against the bathroom wall (upper surface facing the wall) and held in place with the strap provided.

The gas equipment

The gas devices installed in the Hyermobil are intended for use with propane and butane gas, or a mixture of the two. The gas valve and all the devices are designed for an operational pressure of 500 mm WS (with the exception of various special versions).

The following basic rules must be observed:

1. When the gas cooker or the other gas devices are not in use, the stopcock on the gas bottle must be turned off.
2. If several gas devices are installed, each must have an additional stopcock per device, which must be turned off when that particular device is not in use.
3. When open fire points (e.g. cooker or oven) are turned on, the door- and roof-ventilators must be opened.
4. The propane cooker and the oven must not be used for heating purposes.

To turn on the gas burners:

You have a two-burner cooker with electrical ignition. Turn on the desired gas tap, press downwards, and operate the ignition button. Keep holding the gas tap down for a little while, so that the thermic ignition safety device can respond.

The igniter is fed by a 1.5 Volt Mignon battery. The battery casing is on the inside left of the kitchen block and can be reached by taking out the left-hand drawer.

To change the battery, remove the screw-cap from the battery holder and tighten up again by hand after inserting the new battery. Make sure that the polarity of the battery is correct.

To use the gas heater:

A) Ignition

Open the valve on the gas bottle and the stopcock on the gas pipe. Turn the dial on the heater to a number between 1 and 10, press down and hold down for about 10 seconds, until the automatic ignition functions. The device will keep igniting (sparking) by itself until the flame is kindled (pilot light will flash).

If the flame goes out for any reason, it will immediately be re-lit during the time taken for the automatic ignition to turn off (approx. 30 seconds).

If the pilot light does not flash during the ignition procedure, the batteries are worn out and must be replaced.

B) Choice of room temperature

By turning the dial, the temperature can be adjusted as required; this temperature is then automatically maintained by the built-in thermostat.

We recommend as basic position:

1. When the heater is used in conjunction with the TRUMAVENT-device: turn the letter T to a position between 7 and 9.
2. When used without the TRUMAVENT: turn to the white frame between 2 and 4.

C) To turn off:

Turn the dial to 0 (The automatic igniting device is automatically turned off at the same time). Close the stopcock on the gas pipe, and if necessary also close the valve on the gas bottle.

TRUMAVENT (fan):

Dial in "●" position: manual adjustment (e.g. for ventilation)

Dial in "0" position: off

Dial in "A" position: automatic operation (heating).

The efficiency (capacity) adjusts itself to the heat given off by the heater at that particular time.

Please also observe the Truma operating instructions enclosed.

Use of the built-in, gas-operated hot water boiler:

Before turning on, fill with water. Turn on the warm water tap in kitchen or bathroom and pump water into the boiler until water emerges from the tap without air bubbles. (N.B. the boiler holds approx. 20 litres / 5 gallons).

After opening the main valve, open the outer flap of the hot water boiler. Turn the blue knob to PILOT and press the red ignition knob fully. This allows gas to be discharged. Ignite the gas discharge valve with a match or gas lighter and hold the ignition knob down for a few seconds, until the flame remains alight. Release the ignition knob and turn the blue dial to "Ein" (on), then turn the temperature dial to the required temperature and close the outer flap again.

Important! When the boiler is not in use, protect it against frost by emptying it completely. To do this, open the drainage tap and the safety valve on the outside of the device, switch off the pump switch on the instrument panel, and open both warm water taps.

When the water pump is in operation, the boiler always fills itself.

#### Water supply:

The motor caravans of this series are fitted with a hydraulic water system. The fresh-water tank (100 litres capacity) is installed in the rear of the vehicle in such a way that it can be regarded as being frostproof in winter, if the vehicle is heated. The tank is filled from the outside via a lockable nozzle. It can be cleaned on the inside by means of a large, unscrewable opening on the upper side of the tank; in addition, the tank drainage nozzle can be removed here. This can be found in the rear, near the suction pipe. In order to operate the water supply, the main pump switch on the instrument panel must be switched on. A pilot light shows that the pump is ready for use. When a certain pressure in the system is attained, the water pump is automatically switched off. In order to avoid too-frequent on/off switchings, the system has an additional built-in air-chamber.

#### Preparation for use

After closing the tank drainage nozzle, the drainage valves of the pipes, the boiler and the overpressure valve on the boiler, the water tank can be filled. One of the warm water taps is turned on and the main pump switch is turned on. The warm water boiler is completely full when water emerges from the warm water tap without air-bubbles. This tap is then turned off; all the other taps are then de-aerated in the same way. The Aqua magic should also be de-aerated by pressing the pedal. Now the fresh-water tank is filled again, and the system is ready for use.

It is advisable to turn off the main pump switch during long stationary periods and overnight.

It should become your habit to turn the conversion lever of the shower (in the centre of the mixer battery) back to the 'tap' position after every use of the shower.

#### Malfunctions:

- 1) Pump does not function. Possible faults:
  - a) the main pmup switch is not turned on.
  - b) the fuse has blown.

2) Pump operates continuously, although water is not being drawn.

Possible faults:

- a) the fresh water tank is empty.
- b) the filter in the suction pipe in front of the pump is choked up.
- c) the suction pipe is damaged; this can cause air to be sucked in.
- d) the pressure switch on the pump is defect.

In all these cases, switch off the pump by means of the main switch.

3) Protection of the water supply against frost (if the vehicle is unheated)

- a) empty the fresh-water tank.
- b) empty the hot-water device.
- c) turn on all the taps and switch on the main pump switch for a short time, until no more water emerges from the taps, then switch off the main pump again.
- d) open the drainage tap at the junction under the rear bed, and leave open.
- e) operate the pedal on the Aquamatic for about 30 seconds, so that the water in the feed pipe can run out also.
- f) empty the waste-water tank.
- g) empty the sewage tank.

The waste water from the kitchen sink, bathroom sink and shower is collected in the waste water tank. The waste water pipes are laid on the inside of the vehicle, thus protecting them against freezing, as long as the vehicle is heated. By means of the built-in electric water gauge, you can read the water level of the waste tank on the display panel inside the vehicle.

The waste water tank outlet can be extended by means of the connecting pipe which can be found inside the back bumper.

Before using the Aqua Magic for the first time, and each time after emptying the sewage tank, pour about 200 ccm of Aqua-Kem and 1 litre of water into the empty tank.

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10a version with Porta Potti WC:

WC:

In order to fill, remove the upper section of the toilet and fill with fresh water, then replace on the lower section again. Press the pump several times to allow fresh water to run into the toilet, pull the handle so that the water runs into the sewage tank. Pour several cubic centimetres of sanitary liquid (no. 97615; observe exact instructions on the container) into the sewage tank. Push the handle in. The WC is now ready to use.

In order to use the WC, remove the plastic storage board above the WC and put it to one side. It is advisory to operate the pump several times, allowing water to run into the bowl, before use.

To empty the toilet, you must first remove the upper section. Only then can you lift the toilet out of its holder, and carry away.

## Electrical installations

The Hymermobil 650 is equipped with a 220 volt alternating current circuit and a 12 Volt direct current circuit.

The vehicle is connected to the 220 Volt grid by means of a connecting cable plugged in to the external socket. See also 'Tips for do-it-yourself repairs'.

The fridge and the battery charger can now be operated on mains electricity; the sockets in the kitchen block and in the side wall of the bed-box (centre seating group) now conduct current.

The 12-Volt current is supplied by the starter battery and an additional battery. Both are charged by the vehicle's dynamo. A relay prevents the starter battery from being discharged when the motor is off. You can check the battery status i.e. voltage by means of the display panel inside the vehicle.

When the vehicle is connected to the mains, the additional battery is loaded by the charging device under the bed of the centre seating group. This device is connected by means of jacks and is protected on the primary side by an automatic device. The charging current automatically adapts itself to the battery status, so that over-charging is impossible. The charging current and/or consumption can be read on the ammeter on the instrument panel. By pressing the switch under the voltmeter, you can check the voltage of the starter and additional batteries.

If you press the key 'Abwasser/Frischwasser' (waste water / fresh water), you can see the water levels in the corresponding tanks.

The main circuit and drive circuit to the instrument panel are protected by two 40A and two 8A fuses, which are installed in the battery box.

The consumer devices in the living section and also the battery charger are connected via safety fuses. These can be found by raising the instrument panel; in order to do this, screw out the cross-slot screw underneath.

The circuits are separated as follows:

1. battery charger
2. heater fan; lamps in interior rear, wardrobe and kitchen block; fume extractor; radio alarm
3. fridge (via relay)
4. lamps in front, seating group and toilet; socket in bathroom;
5. water pump
6. television socket.

If the motor caravan is not used for a longer period of time, it should be disconnected from the mains.

The car radio is fed from the main battery. Although it uses very little current, it can still discharge the battery if the battery is not recharged.

For more details on the electrical system of the chassis, please refer to the Daimler-Benz operating instructions.

### Tips for maintenance:

The superstructure and living section require minimal maintenance; this will normally be carried out in conjunction with the maintenance plan for the chassis on your request.

In particular, the following points should be mentioned:

Regular greasing of the carriage rail of the extendable entry-step and the spindle of the wind-up roof ventilator (this can be reached from the outside when the ventilator is fully raised).

### Care of the battery:

(Additional battery and starter battery).

Check the acid level regularly; fill up with distilled water only. Keep a watch on the battery voltage; recharge if necessary. Avoid low charge levels i.e. voltage under 10.5 Volts, because this has an adverse effect on the service life of the battery. If the battery does run down severely, charge it as soon as possible with a low charging current (max. 6A), or better still, take it out and have it charged in a workshop. The battery case is under the floor to the left of the driver's seat.

### Service and care:

#### Cleaning the outside:

Wash down as often as possible, using plenty of water. Tar spots and dead insects should be removed as soon as possible. Avoid anything which could cause scratches and grooves in the varnish.

The acrylic glass windows of the living section need special treatment; never rub them dry! simply wipe with a clean sponge and soft cloth, using plenty of water.

Recommendable: 1 service pack of Acril-fit (order no. 94510), including an acrylic-glass polishing paste.

#### Care of the underframe:

Once a year, take a look under the vehicle. Remove any traces of rust, treat with rust-preventer and under-floor protector.

Cleaning the inside: the usual household cleaning and preservative agents can be used.

#### Kitchen bowl & shower tub

Never clean the basins with a detergent containing sand. As far as possible, avoid anything which could cause scratches. The stainless steel cooker and sink should be cleaned with appropriate special liquids.

Furniture: If necessary, wipe with a dry or damp woollen cloth.

Upholstery: If necessary, clean carefully with the foam of a mild detergent.

### Regular checks

Before the start of every journey, check that the lights and signals, particularly the indicators, brake lights and rear lights, are working properly. Check the oil and cooler levels of the motor.

If you are towing a trailer, check every time that the trailer is correctly hitched on! Before the start of every journey, (after hitching on,) try to lift the coupling snout off the tow bar.

### Tyre pressure:

with standard tyre size 205 R 14 CM-PR 8: front - 3.00\*/ rear - 4.50\*

with standard tyre size 215 R 14 CM-PR 8: front - 2.75\*/ rear - 4.50\*

\*atmospheric excess pressure (Also consult chassis operating instructions)

### Total weight:

It is advisable to test the weight on a public weigh-bridge when the vehicle is fully laden; this way you avoid possible unpleasant surprises.

### Brakes:

It is advisable to test the efficiency of the brake system before beginning a journey. If the vehicle has not been used for some time, it is recommended that you visit an authorised workshop to have the complete brake system checked.

### Gas system:

Have the gas system checked once a year by a specialised workshop.

Pressure check with test apparatus: with the intermediate valve open, the pressure must stay constant at 1000 mm WS for 10 minutes, without loss of pressure.

Caution: do not exert higher pressure, because this is damaging to the conic valves.

Official examination: varies according to the country in which the vehicle is registered. (e.g. in West Germany, examination is carried out every two years by an official expert, according to § 29 StVZO).

### Tips for 'do-it-yourself' repairs:

#### Lights system not working properly:

Example: one of the indicators does not operate.

Possible faults: Bulb is burned out - unscrew the housing of the light, replace bulb, observing Volt- and watt values.

Fuse blown - replace!

#### Connected to the mains, but no 220 volt current:

Fuse behind the 220V-external socket blown.

Using a screwdriver, unscrew and replace.

Caution: First remove the connecting cable to the mains!

Defective gas system:

Symptoms: smell of gas, high gas consumption, flame flickers or burns yellow.

IMMEDIATELY turn off the gas system, close the stopcock on the gas bottle, open all windows and doors, and ventilate. Call an expert to examine the gas system. If there is a smell of gas, do not operate any open light or electric switch (e.g. starter).

Defect in the gas cooker:

1. Automatic ignition does not respond (flame does not keep burning when the knob is released).
2. Flame goes out when set at 'low' position.  
Test whether the ignition sensor is surrounded by the flame; adjust if necessary.
3. No ignition spark: renew the batteries.

Defect in the fridge or heater:

Contact the nearest service workshop of the device's manufacturer. The list of addresses is included with the appropriate operating instructions. If necessary, give a short technical report of the kind of fault, establish the device's number if possible, and send to us (service department) with your full address.

Defect in the water supply:

Establish the leaking position, re-clamp the pipes; test whether the pump is in operation, test whether the pipes are bent.

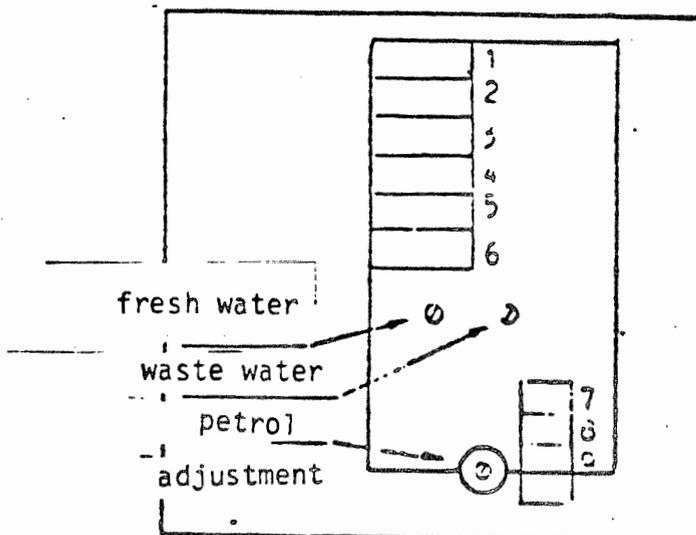
- Our agents and service points are always available to help you with your spare parts problems -

## Service hints

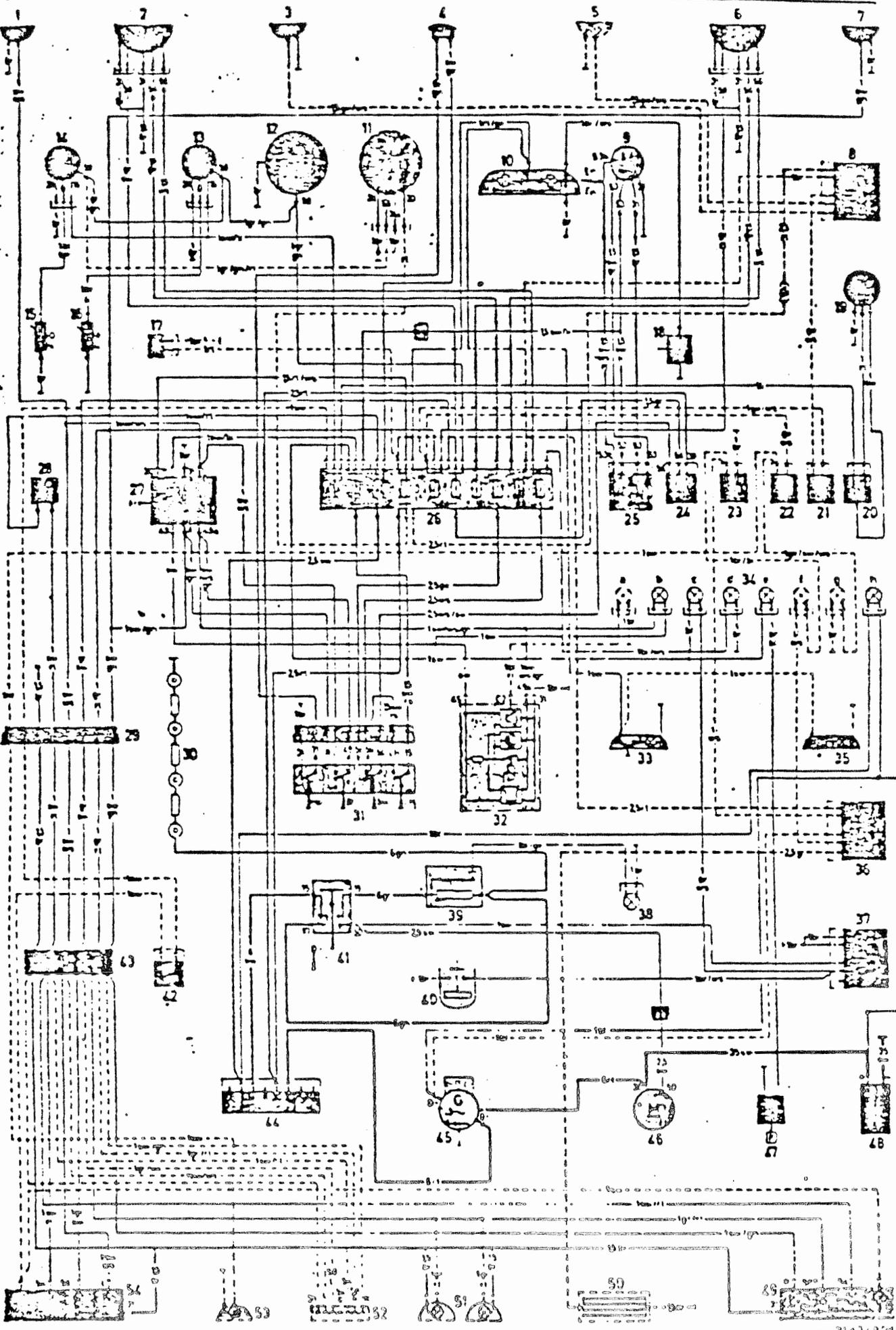
The displays for the fresh- and waste-water tanks and for the generator tank are adjusted in the factory.

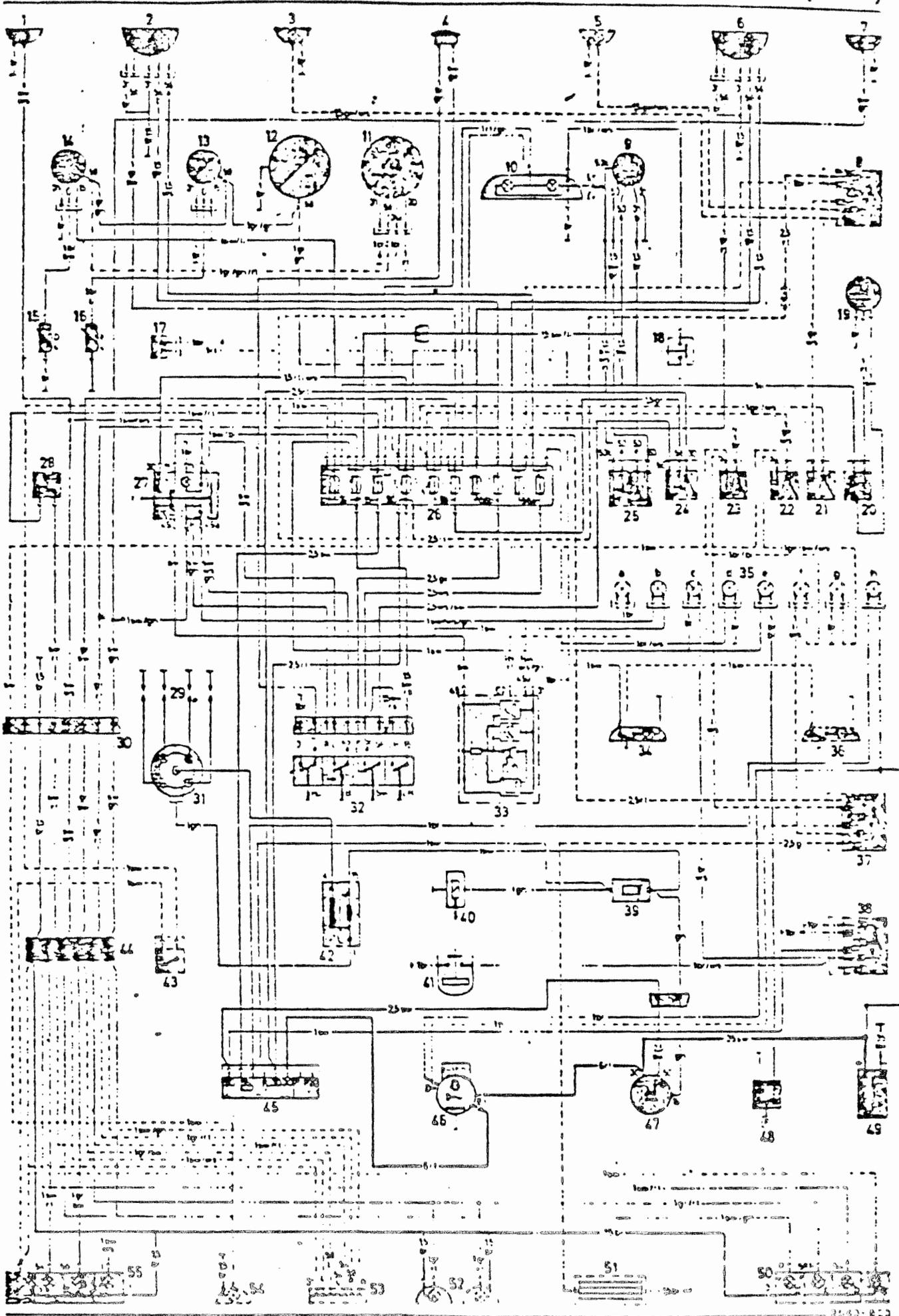
However, as a result of the variations in the conductivity of water in the various regions, a slight deviation in the display is possible. In the case of the waste water display, salt, acids or alkali can influence the reading. If the differences are too great, adjustment can be made as follows:

1. Check the plus and minus connections on the fresh water tank.  
On the waste water tank, check the earth connection between the drainage slide and the chassis.
2. Fill both tanks with water.
3. Remove the securing screw and raise the instrument panel. You can reach the two potentiometers with a small screwdriver through the boreholes in the printed circuit board. By pressing the corresponding key, the instrument will be brought to 'full display' by means of the appropriate potentiometer.
4. The petrol display for the generator tank can be adjusted in the same way by means of the potentiometer next to the terminals 9 & 10.



Reverse side of the instrument panel





35-43-820

relay for fridge

1 lights and sockets

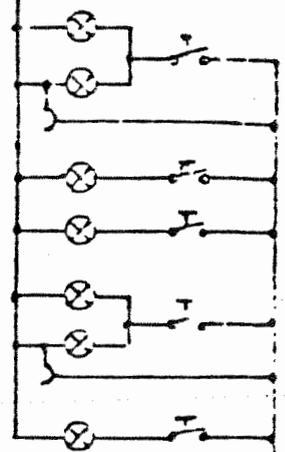
bathroom

spot lamp

sitting group

wall light with  
socket above sitting group

front bed light



2 x 2.5

2 x 2.5

2 x 4

socket, centre  
sitting group



junction box

12V TV socket

socket in kitchen block

Kuhlschrank

heater fan

wall-light with  
plug at rear

lamp in wardrobe

2 spot-lamps  
in rear

fume extractor

