### **USE AND MAINTENANCE INSTRUCTIONS**



Range 2000 2001 2002

Anglais

RAPIDO

Route de Bretagne B.P. 19 53101 MAYENNE Cedex - FRANCE TEL.+33 2 43 30 10 70 - TELECOPIE +33 2 43 30 10 71 http://www.rapido.fr We thank you for the confidence you have placed in our mark by purchasing one of our Caravans.

Your Rapido Club Caravan has been developed and manufactured with the greatest of care, and will provide you with great comfort and safety. In order to obtain from your Caravan all that you expect of it, we invite you to consider the advice contained in this brochure, which should help you to familiarise yourself with and maintain your Rapido.

The electricity and gas installations and the ventilation in your Caravan have been manufactured in conformity with French standard NF S 56 200 for Caravans.

We would like to remind you that any transformation or modification of these installations must conform to this standard.

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#### A) PREPARATION OF THE CARAVAN

#### 1) IDENTIFICATION OF THE CARAVAN

Your Rapido is identified by a number composed of 17 characters, it is embossed on the "A" frame of the chassis and is also on the constructor plates riveted on the tow bar, this plate has the following information:

- name and address of the manufacturer
- the identification number
- the maximum authorised loading weight (PTAC = GVM Gross Vehicle Mass)
- the force on the axle
- the allowable maximum nose weight

#### 2) FRENCH CAR REGISTRATION CARD

This is information for caravans over 500 kg and whether or not they have to be registered - applies to France only, not applicable in the U.K. and in Japan.

#### 3) INSURANCE

Don't forget to inform your insurance company that you have acquired a caravan. It is important to inform your Motor Insurance company about your caravan, in order that it can be put on the same insurance as your car. Give all the information embossed on the constructor plate.

It is also prudent to cover the other risks associated with your caravan (theft, fire, as well as the contents of the caravan when it is not hitched up).

#### 4) WING MIRRORS

Whilst towing, it is prudent to have 2 adjustable side mirrors to ensure good visibility through to the rear of the caravan.

#### 5) WARNING TRIANGLE

Carrying a warning triangle is compulsory, should you break down or stop in abnormal conditions. This warning triangle should be placed at least 30 metres from the vehicle and positioned so that it is visible from a distance of 100 metres.

#### 6) TOW HITCH - TOW BAR

Tow hitches are supplied specifically for each car model. Check with your local car dealer. The tow ball top should be positioned between 35 and 42 cms from the ground when the vehicle is loaded, so that the car and caravan are perfectly aligned.

#### 7) TOWING VEHICLE

Before departure, you are advised to check the towing vehicle, especially the brakes, the clutch, the suspension and the cooling system.

For better road holding and more uniform wear of the car tyres, it is a good idea to slightly over-inflate the car tyres (plus 300-600 gms per square centimeter for the rear tyres and plus 100-300 gms for the front tyres).

Whilst driving at night, check the beam of your front vehicle lights.

#### B) USE OF THE CARAVAN

#### 8) LOADING OF THE CARAVAN

If possible, when loading the caravan, place the heavier objects as near to the axle as possible, avoid putting heavy objects in the overhead cupboards. Wedge any objects placed in the cupboards to avoid displacement of them whilst the caravan is in motion.

Respect the equilibrium of the caravan. Excessive weight at the back of the caravan would impair road holding and excessive weight at the front would prevent the towing vehicle from having a good grip on the road. Because of the camber of the road and the bad state of some roads at the side, you are advised to load the right-hand side of the caravan a little less (on the continent, the reverse being true in G.B and Japan).

For good towing characteristics, the nose weight must be around 7% of the GVM of the caravan. The Gross Vehicle Mass and the maximum nose weight MUST NOT be exceeded.

#### 9) HITCHING UP THE CARAVAN

- Make sure that the parking brake is on.
- Wind up the 4 caravan stabilising jacks to their full position,
- Raise the tow hitch with the aid of the jockey wheel so that it is slightly above the coupling ball of the towing vehicle,
- Lower the level of the tow hitch with the aid of the jockey wheel: this will insert the coupling ball into the tow hitch,
- Raise the jockey wheel to its highest extent and maintain it there. For long journeys, you are advised to take the jockey wheel from its support,
- Attach the safety cable to the tow-hook, making sure that it is not too tight and doesn't trail on the ground,
- Plug the 13-pin electrical connection to your car (in some countries where Rapido exports the models of the Club range, the 12V electrical supply is provided by means of two 7-pin plugs which are designed not to be interchangeable.

#### 10) BEFORE DEPARTURE

Before departure, check:

- That the gas supply has been turned off,
- That the interior lights are turned off,
- That the windows and the doors of the cupboards have been securely fastened.
- That the dinette tables have been lowered into the bed position,
- That the rising roof has been securely folded down,
- That the handbrake has been disengaged,
- That the hitching-up procedure of the caravan has been carried out correctly and the jockey wheel is in its raised position,
- That the electrical system is functioning well (stop lights, front and rear lights, indicators and fog lights),
- That the 4 stabilising jacks are wound up,
- That the caravan is locked and the keys are removed,
- That the wheel nuts are tight.

#### 11) ON THE ROAD

Towing a Rapido is easy.

However, driving is different when towing a caravan.

Pull away slowly without racing the engine, this would provoke hiccoughs. The gears must be changed at a higher rev. than without a caravan.

Keep well to the right (or left in G.B and Japan) but not too much.

Don't forget the width and the overall length of the car and the caravan, which require special precautions.

Bends in the road must be negotiated more widely than with a car on its own and, if necessary, should be taken by changing down quickly but gently.

Only overtake when you are sure that the road ahead is clear. This manoeuvre must be accompanied by signalling sufficiently well in advance and to avoid giving problems to the vehicles directly behind you. Don't hesitate to change down in order to generate maximum acceleration. After overtaking, pull back slowly allowing plenty of space so as not to hamper the vehicle you are overtaking. Always manoeuvre the steering wheel gently so as to avoid dangerous swerving movements. If this should happen, when you're on the straight, brake quite hard to reduce speed, then accelerate immediately after changing down if engine power is insufficient.

Slow down on slopes, at level crossings, on bumps. Avoid overtaking on steep downhill slopes. Keep some power in hand in the towing vehicle. When descending inclines, use the gears and engine as much as possible and avoid using the brakes all the time. Allow at least 50 metres between you and the vehicle in front (this is stated in the Highway Code for vehicles or groups of vehicles over 7 metres long).

As a general rule, your vehicle must always be the "traction" force and the caravan must never give the sensation of pushing the vehicle.

#### 12) REVERSING

Your Rapido is equipped with an automatic reversing system.

As a consequence, it is an easy operation to effect a reversing manoeuvre.

In reverse, the caravan has a tendency to go off course. To put it straight, simply put it in the right direction by giving little turns of the steering wheel in the direction the back of the caravan is going.

#### 13) PARKING BRAKE

To park, put the handbrake on tightly by placing in an almost vertical position.

Because of the automatic reversing system, the parking brake is really efficient only when the manoeuvring handle is in an almost vertical position.

#### 14) ON THE SITE

- Engage the caravan parking brake.
- Disconnect the electric plugs,
- Unhook the contact breaking cable,
- Lower the jockey wheel until the wheel touches the ground,
- Unbolt and raise the hitch to take it off by turning the jockey wheel,
- Remove the vehicle (if applicable),
- Make your caravan horizontal with the aid of the jockey wheel and a wedge under 1 wheel if necessary,
- Lower the 4 jacks so that they rest on wooden pads (the jacks should only be used to stabilize the caravan and not to level it),
- Raise the telescopic folding roof (see Nr 16).

#### 15) CHANGING A WHEEL

- It is possible to leave the caravan attached to the vehicle,
- Place the breakdown warning triangle in the appropriate place and put on warning lights,
- Wedge the front and rear of the wheel which is not punctured,
- Apply the handbrake,
- Un-tighten half a turn the fixing screws of the damage wheel,
- Lower the jacks on the side opposite the wheel to be changed,
- Place a jack under the side frame to the rear of the damaged wheel (not supplied with caravan),
- Lift the side of the caravan,
- Remove completely the wheel fixing screws to change the damaged wheel,
- Now proceed in reverse order and don't forget to tighten up the wheel retaining screws after having removed the jack.

#### **IMPORTANT**

After each wheel change (through puncture or wear) and after the first service, it is imperative to check the wheel tightness after 20 to 40 kms (12 to 25 mls), then at 100 km (60 mls), then periodically or, ideally, before each departure.

#### 16) OPENING AND CLOSING OF THE FOLDING ROOF

The opening and closing of the folding roof can be done either at the front or at the rear first.

Once inside the caravan, push on the retaining button located at the front (or rear) of the caravan to unlock the roof. Being servo-assisted, the roof tends to rise up automatically. Therefore, it is easier to operate if you push the roof upwards by means of the handles fixed on it to take the weight off the black button while it is being released.

Once the roof is unlocked and because it is servo-assisted, it rises up taking the rear panel with it. PUSH THE PANEL TO ITS MAXIMUM EXTENT TO PUT IT IN ITS FINAL POSITION. Do the same thing for the other end of the roof. Then lift up the side panels (with windows) and fasten by means of the bolts which will fit into the corresponding holes.

To close the telescopic roof, proceed in reverse order. The servo-assisted opening of the roof tending to lift it up, it may be helpful, when you are closing it and to ease locking, to pull it downwards with the handle.

#### 17) VENTILATION

The large side panels of the folding roof are equiped with top-hung opening windows. These have to be closed before folding down the panels for closing the roof.

#### C) CONTROLS AND CROSS CHECKS

For the various accessories, you must refer to the advice given by the manufacturer: they are enclosed with this handbook. The main points are summarised below:

#### 18) TOW HITCH

Every year before departure or every 2500 kms (1,500 mls), lubricate the tow hitch with a grease gun through the 2 grease nipples placed on the tow bar. Every year, put a little oil on the articulation of the parking brake lever.

#### 19) SUSPENSION

After the first 500 km (300 mls) and then again every 2500 kms (1,500 mls), grease the bearings of the suspension swing-arms via the grease points found on the main body of the axle (only use quality neutral non-acid grease).

#### **20) HUBS**

Every 5000 kms (3,000 mls) or every year, renew the grease on the bearings.

#### 21) JACKS

Twice a year, clean and grease the endless screw and articulated points.

#### 22) BRAKES

After the first 1000 kms (600 mls), check the brake adjustments (linings, brake rods, mechanism) then every 5000 km (3,000 mls) or each year before each departure. With the handbrake on, the lever should be vertical and the caravan wheels blocked. Periodically clean and check the state of the brake linings and adjust the distance between the jaws.

Since the brakes are a very important part of the caravan and are there for your security, you are advised to have the adjustment carried out by a specialist (car dealer or mechanic).

#### 23) WHEELS

After each wheel change, you should check the wheel nut tightness after 20 to 40 kms (12 to 25 mls), then at 100 kms (60 mls), thereafter periodically or, ideally, before each departure.

#### 24) TYRES

Always check the tyre pressures when the wheels are cold i.e. having done less than 2 kms.

Tyre pressure:

- 165x70/13 Pressure : 3 bars ) possible to inflate 0.3 to

- 175x70/13 Pressure : 3 bars ) 0.5 bars higher

On the same axle, it is forbidden to use tyres of different dimensions or structure.

You should check the tyre pressure on your towing vehicle (see paragrah 7).

#### D) MAINTENANCE

#### 25) CARAVAN COACHWORK

The exterior surface of the caravan can be simply washed with clear water, warm or cold, and dried off with a chamois leather. One can from time to time add a little special shampoo for paint work. In this case, the surface should be rinsed well with clear water before drying off with the chamois leather. It is important that no product containing abrasives should be used on the paintwork.

#### 26) GRP PARTS

Some parts of the body worksuch as the front, the rear bumpers or the back side, the pop up roof) are made out of polyester (GRP). This material is resistant to shocks and easy to clean. However in order to preserve its nice, white, smooth looking we recommend you to read carefully the following maintenance instructions:

- 1. Do not let the GRP parts remain durty. As soon as necessary, rince the durty parts with clear water mixed with a smooth cleaning product if necessary.
- At least once a year all the parts mentionned above should be polished with a proper polish cream available in any car accessories shops. Do not polish in the sun
- 3. You may use any special polyester polish pasta or any stain remover to repare any dents or scratches.
- 4. Do not store your caravan under a watertight cover which may keep humidity.

#### 27) WALL COVERING

The interior wall covering of your Rapido is plasticised and should be cleaned with clear water.

#### 28) FLOOR COVERING

The floor covering can be cleaned using warm water with a normal commercial floor cleaner.

#### 29) WINDOWS

The windows are made of an acrylic glass and should never be cleaned dry, but with clear water only. No cleaning agents, especially alcohol-based ones should be used.

#### 30) FURNITURE

Clean the surface with water, clear or slightly soapy, then wipe it with a chamois leather or a soft cloth.

#### 31) CUSHIONS AND CURTAINS

Dry cleaning is strongly recommended. We also recommend to place cushions on their edge when the caravan is not used for a long time.

#### 32) RETRACTABLE ROOF

No special upkeep is necessary: however, the hinges and rubber seals can be smeared with vaseline.

#### 33) WINTER STORAGE

Rapido caravans are low so that they can be parked and stored in winter in practically all lock-ups and garages.

However, if the caravan is about ten centimeters too high, the wheels can be replaced by metallic wheel substitutes (these can be supplied by your dealer - optional).

Before winter storage (even if stored in a garage) open the taps (sink and washbasin) and the valve from the shower head in order to drain off the water.

For the months when your Rapido is not in use:

- Place the caravan on wooden pads and stabilise using the jacks-Disengage the parking brake,
- Drain the water system, check that the water pump is dry and all tubes are empty,
- Put a drop of oil at the entrance of the keyhole (door, boot),
- Remove the bottle of gas,
- Stand the mattresses upright,
- Open the cupboards and wardrobes,
- Leave the refrigerator door slightly ajar after having cleaned it thoroughly,
- Use some talcum powder on the rubber seals of the door frame and window frame seals.
- From time to time when the air is dry, ventilate the interior of the caravan,
- Avoid covering your caravan with a PVC cover as this promotes condensation.

#### 34) BLINDS

The caravan windows except in the roof are equiped with mosquito net blinds. If they do not work properly, the springs can be stretched again. Ask your dealer.

#### E) ELECTRICAL AND GAS INSTALLATIONS - USE OF APPLIANCES

In order to use the different appliances installed, it is useful to refer to the text supplied by the different appliance makers, which is enclosed. The guarantee conditions are defined by the manufacturer.

#### 35) ELECTRICAL SYSTEM - Conforms to NF S 56 200

#### 35.1 ELECTRICAL SYSTEM ON UK MODELS (WITH BATTERY BOX)

The electrical supply used for the appliances in the caravan is provided by three different ways :

1) via the local supply

by connecting an extension lead (2-wire + earth, maximum 25 metres long) to the standardised blue socket (2P+E) located in the battery box. Thus the whole lighting system inside the caravan is supplied with 12V current through the transformer. The socket (2P+E) located on the front of the kitchen unit continues to be supplied with 220V current.

The refrigerator is supplied with both 220V and 12V (be careful how you position the switch).

The current supplied by the transformer is alternative.

Although the 12V circuits of the car are disconnected by a relay (located in the fuse box) from the circuit supplied by the transformer of the caravan, you should unplug the supplementary plug of the car when connecting to the mains.

The 220V circuit is protected by two circuit breakers (one 10A for main switch and socket and one 5A for refrigerator) located in the left seat of the back dinette.

The 12V circuits are protected by 3 fuses: light 7.5A, fridge 15A and water pump (also used for cassette wc if one) 10A. The fuses are located in the distribution box in the left seat of the back dinette.

2) via the car battery:

by connecting the supplementary plug to the socket of the car, the lighting system is supplied with 12V current as well as the refrigerator and the water pump (also used for cassette wc if one). The 220V sockets (2P+E) are not supplied with current.

If you use this system, you should run the car every day to avoid discharging the battery.

The car socket is supplied by means of a 3.5mm<sup>2</sup> wire coming directly from the battery.

3) via the battery of the battery box :

Caravans with a left door, excepted "L" versions on 34 models, are equipped with a battery box to receive one battery (not supplied). This battery is automatically in use when the caravan is not linked neither to the car nor to the local supply. This battery is loaded by the 220V current when the caravan is linked to the local supply. This system provides the same service as the car battery (see nr 2).

#### 35.2 ELECTRICAL SYSTEMS ON ALL MODELS EXCEPT UK

#### 1) General points

The electrical supply used for the applicances in the caravan is provided by two different ways:

Via the local supply: by connecting an extension lead (2-wire + earth, maximum 25 metres long) to the standardised blue socket (2P+E) located on one of the caravan sides.

<u>Via the car battery</u>: by connecting the 13-pin plug to the socket of the car, the electrical system is supplied with 12 Volt current only coming from the car battery.

#### 2) Electrical supply with protection and interconnection box (BIP)

The models of the Club range are equipped with a protection and interconnnection box (BIP) located in a seat box. This protects the circuit through fuses (light: 7.5 A; refrigerator: 15A; water pump: 7.5A). The 12 Volt alternating current supplying the lighting system as well as the refrigerator (except Japan) is distributed by the transformer located in the "BIP" box. The direct current is only used to supply the water pump. The 220V circuit (110V. in Japan) is protected by a 16A fuse for the interior sockets. These sockets (2P+E) are directly supplied with 220V (110V in Japan). The refrigerator is also supplied with 220V except in Japan (be careful how you position the switch).

#### **IMPORTANT**

Although the 12 Volt circuits of the car are disconnected by a relay (located in the "BIP" box) from the circuit supplied by the transformer of the caravan, you should unplug the plug of the car when connecting to the mains. The car battery will not be drained via the fridge when the car ignition keys are removed or turned off, and when the refrigerator supply pin (10) is linked "after the car ignition".

#### 36) GAS INSTALLATION - Conforms to NF S 56 200

The gas installation found in the caravan is made to function on **Propane** or on **Butane at 30 mb.** The 13 kg bottle of gas MUST be put in the storage box provided on the towbar of the caravan. The cooker and the refrigerator are supplied by gas.

Regularly check the tightness of the tap, pipes and joints. The supply tubing of the appliances must be changed before the date marked on them.

To detect a possible leak, only a soapy mixture should be used.

When an appliance is not in use, turn off its supply taps.

#### 37) REFRIGERATOR

The refrigerator is able to work on 3 energy supplies -240V, 12V and gas- so that you can use it in the best possible conditions. For the Japanese models the refrigerator can only work on gas.

On the road: Use the 12V supply from the car circuit only. Road traffic regulations forbid the use of gas whilst the motor vehicle is in motion. In the event of a prolonged stop, stop the refrigerator to avoid discharging the battery (in the U.K. some cars will not drain the car battery via the fridge when the car ignition keys are removed or turned off). This type of supply is impossible in Japan.

#### On the site:

12V FROM THE CAR OR THE CARAVAN BATTERY: Prolonged use of the refrigerator on the 12V system is not recommended - it is preferable to use one of the other two energies:

MAINS: Supply the caravan with 220V and put the switch on 220V. The thermostat can be set to the temperature you wish. This type of supply is impossible in Japan.

GAS: Turn on the bottle of gas, relief valves and light the burner flame with the electrical igniter. Through the eyehole, check that the flame is lit. The gas thermostat can be set to the temperature you wish.

The gas thermostat does not have any "off" position. The gas supply has to be turned off with the tap placed in the kitchen unit. The burner flame goes out.

For the electricity supply the Piezzo switch has to be positioned back to "off". The warning lights go out.

Whatever the energy chosen, the ventilation grids located at the top and bottom of the refrigerator must be kept clear. It is normal for the refrigerator to produce some heat.

Pay attention to the positioning of the 12V and 220V switches when the refrigerator is working.

#### 38) HEATING

For the models fitted with this optional appliance, follow the instructions given by the manufacturer.

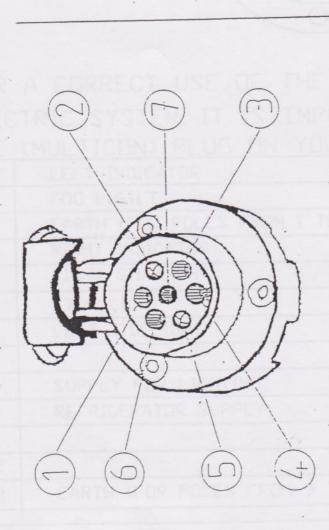
It is strictly forbidden to block the ventilation grids of the caravan. Whenever the caravan is in motion, the heating must be OFF.

#### G) - AWNING (optional)

If the caravan is equipped with an awning (optional), in order to make easier the flow of rain water on the roof of the caravan, it is essential to install the caravan with a slight slope which leads water to the back and to the side opposite the door. This slight slope will not harm neither the comfort in the caravan nor the running of the refrigerator.

# 7 - PIN CONNECTION (UK)

SUPPLEMENTARY CONNECTION (UK)



EUROPEAN INSTALLATION (7 - PIN CONNECTION)

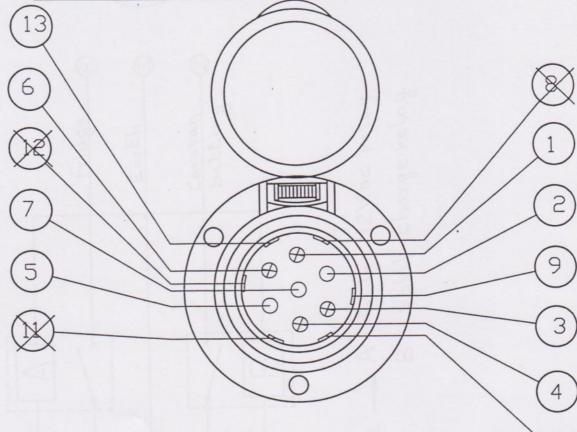
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SUPPLEMENTARY CONNECTION

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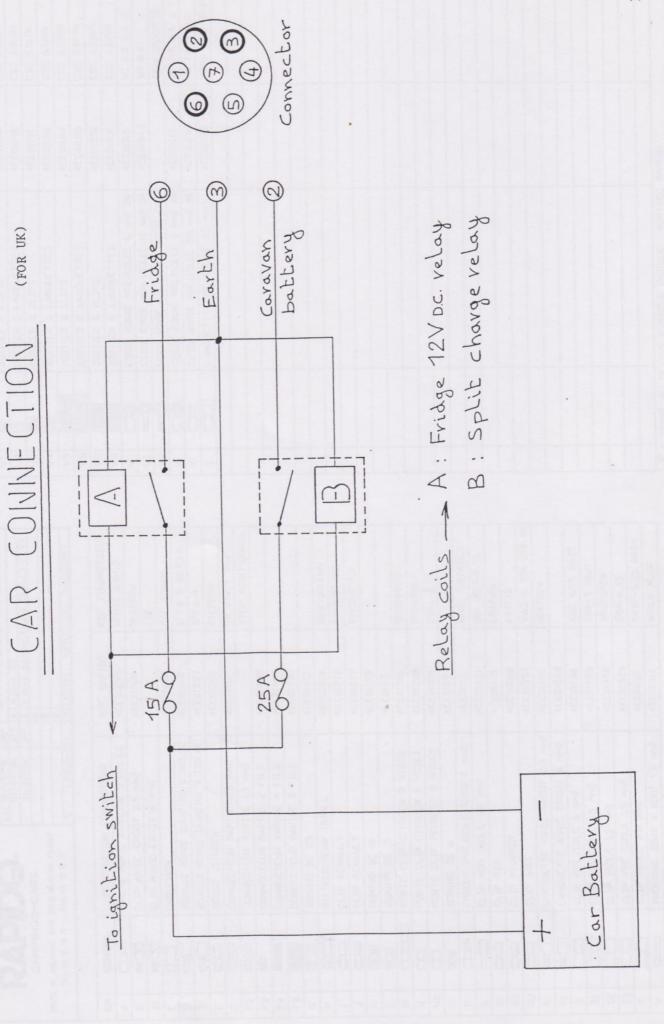
10

## 13- PIN CONNECTION (CARAVAN WITH B.I.P) ALL COUNTRIES EXCEPT UK



FOR A CORRECT USE OF THE WHOLE ELECTRIC SYSTEM, IT IS IMPERATIVE TO FIT THE (MULTICON) PLUG ON YOUR VEHICLE

1	LEFT INDICATOR	YELLOW	1mm
2	FDG LIGHT	BLUE	1mm
3	EARTH (FOR POLES FROM 1 TO 8)	WHITE	2.5mm
4	RIGHT INDICATOR	GREEN	1mm
5	RIGHT SIDELIGHT	BROWN	1mm
6	STOP LIGHT	RED	1mm
7	LEFT SIDELIGHT	BLACK	1mm
8			
9	SUPPLY FOR LIGHTING	BLUE	2.5mm
10	REFRIGERATOR SUPPLY	DRANGE	2.5mm
11			
12			
13	EARTH (FOR POLES FROM 9 TO 11)	WHITE/BLUE	2.5mm



(FOR UK)

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REF. RAPIDO	4EE01299	4EE01189		4EE01287	4EE01300	4EE01527	4EE01290	4EE01117		4EE01489	4EE01488	4EE01487	4EE01103	4EE01218	4EE01278	4EE01277	4EE01135	4EE0173	4EE01281	4EE01286	4EE01521	4EE0109	4EE01111	4EE01221	4EE01415	4EE01520	4EE01357	4EE01190	4EE01528	4EE01138	4EE01220	4EE01456	4EE01529	4EE01131	4EE01311
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7		BOITIER 2 CLIPS	4EE01188	
72		BOITIER 2 LANGUETTES	4EE01186	
٧3		BOITIER 3 CLIPS	4EE01191	
4		BOITIER 3 LANGUETTES	4EE01192	
V.5		BOITIER 8 CLIPS	4EE01184	CSC 6328N
9/		BOITIER 8 LANGUETTES	4EE01185	CSC 6327N
//		BOITIER 6 CLIPS	4EE01530	CSC 6326N
8/		BOITIER 6 LANGUETTES	4EE01531	CSC 6325N
3	020	COSSE RONDE PRE.ISOLEE 6 mm2 D8	4EE01115	NC 2.8 6.8 J
5	0	COSSE RONDE NON ISOLEE 10 mm2 D8	4EE01343	BM 8.8
V2	()	COSSE RONDE NON ISOLEE (SONDE EAU)		SCHEIBER/CBE
×	02	COSSE RONDE PRE.ISOLEE 6 mm2 D6	4EE01112	NC 2.6 6.6 J
>		COSSE RONDE PRE.ISOLEE 2.5 mm2 D6	4EE01243	NB 1.4 4.4 B
7	0	LANGUETTE PRE.ISOLEE 2.5 mm2	4EE01132	SQMB 6.35 863B
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CARAVANES

CAMPINGS—CARS

ROUTE DE BRETAGNE BP19 53100 HAYÊNNE FRAI

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DENUDAGE

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COULEUR FIL	BLEU	BLANC	GRIS	JAUNE	MARRON	NOIR	DRANGE	ROUGE	VERT	VIOLET	VERT/JAUNE
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