



Swift Group

Dunswell Road Cottingham East Yorkshire HU16 4JX

Tel 01482 847332 Fax 01482 841042 email enquiry@swiftgroup.co.uk

For more information visit www.swiftgroup.co.uk

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Autocruise Van Conversion Technical Handbook







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Peugeot Specifications

130 HD 110 HD 130	Model	Rhythm	Rhythm	Compact
Care Capacity Ca	Roof Profile	Panel Van	Pane	el Van
Disassis Boxer 335 Boxer 333 Wheel base 4.04m/13''3" 3.45m/11'4" Designated Passenger Seats excluding Driver 1	Engine Power	130 HDI	110 HDI	130 HDI
Wheel base	Engine Capacity	2.2L	2.	2L
Designated Passenger Seats excluding Driver 1	Chassis	Boxer 335	Boxe	r 333
Part Seeping positions 2 2 2 2 2 2 2 2 2	Wheel base	4.04m/13'3"	3.45m	/11'4"
Devall Length (no ladder) 6.00m/19'8" 5.41m/17'9"	Designated Passenger Seats excluding Driver	1	-	1
Devarall Width 2.05m/6'9" 2.05m/6'9" 2.05m/6'9" Devarall Width (mirrors folded) 2.26m/7'5" 2.26m/8'3" 2.25m/8'3" 2.27m/8'11" 2.72m/8'11" 3.300kg 3300kg 3300kg 3300kg 2810kg 2945kg 2795kg 2810kg 490kg 2795kg 2810kg 490kg 2795kg 2620kg 2635kg 490kg 2770kg 2620kg 2635kg 490kg 2635kg 263	Berths (sleeping positions)	2	2	2
Deverall Width (mirrors folded) 2.26m/7'5" 2.26m/7'5" 2.26m/7'5"	Overall Length (no ladder)	6.00m/19'8"	5.41m	/17'9"
Deverall Width (mirrors extended) 2.51m/8'3" 2.51m/8'3" 2.72m/8'11" 2.72m/8'	Overall Width	2.05m/6'9"	2.05n	n/6'9"
Deverall Height 2.72m/8'11" 2.72m/8'11" 2.72m/8'11" 3300kg 32945kg 2795kg 2810kg 490kg	Overall Width (mirrors folded)	2.26m/7'5"	2.26n	n/7'5"
Maximum Technical Permissible Laden Mass (A) 3500kg 2795kg 2810kg	Overall Width (mirrors extended)	2.51m/8'3"	2.51n	n/8'3"
Adass in Running Order (B) 2945kg 2795kg 2810kg Adaximum User Payload (A-B) 555kg 505kg 490kg Alphaden Weight 2770kg 2620kg 2635kg Sesential Habitation Equipment 9kg 9kg Three Three Seed Sizes Front Double Front Nearside Single Front Offside Single 1.86m x 1.88m x 0.65m / 6'2" x 2'2" Rear Offside Single 1.88m x 0.65m / 6'2" x 2'2" Rear Bunk (Upper) Rear Bunk (Lower)	Overall Height	2.72m/8'11"	2.72m	/8'11"
Maximum User Payload (A-B) 555kg 505kg 490kg Inladen Weight 2770kg 2620kg 2635kg Issential Habitation Equipment 9kg 9kg Internal Insulation Grade Three Three	Maximum Technical Permissible Laden Mass (A)	3500kg	3300kg	
An Index	Mass in Running Order (B)	2945kg	2795kg	2810kg
See	Maximum User Payload (A-B)	555kg	505kg	490kg
Three Three Three Sed Sizes Gront Double Gront Mearside Single Front Offside Single Sear Double 1.86m x 1.88m / 6'1" x 6'2" 1.86m x 1.28m / 6'1" x 4'2" Sear Nearside Single 1.88m x 0.65m / 6'2" x 2'2" Sear Offside Single 1.88m x 0.65m / 6'2" x 2'2" Sear Offside Single 1.88m x 0.65m / 6'2" x 2'2" Sear Bunk (Upper) Sear Bunk (Lower)	Unladen Weight	2770kg	2620kg	2635kg
Sed Sizes	Essential Habitation Equipment	9kg	91	kg
Front Double Front Nearside Single Front Offside Single Front Offside Single Rear Double Front Offside Single Fro	Thermal Insulation Grade	Three	Thi	ree
Front Nearside Single Front Offside Single Sear Double 1.86m x 1.88m / 6'1" x 6'2" 1.86m x 1.28m / 6'1" x 4'2" Flear Nearside Single 1.88m x 0.65m / 6'2" x 2'2" Flear Offside Single 1.88m x 0.65m / 6'2" x 2'2" Flear Bunk (Upper) Flear Bunk (Lower)	Bed Sizes			
Front Offside Single Rear Double 1.86m x 1.88m / 6'1" x 6'2" 1.86m x 1.28m / 6'1" x 4'2" Rear Nearside Single 1.88m x 0.65m / 6'2" x 2'2" Rear Offside Single 1.88m x 0.65m / 6'2" x 2'2" Rear Bunk (Upper) Rear Bunk (Lower)	Front Double			
1.86m x 1.88m / 6'1" x 6'2" 1.86m x 1.28m / 6'1" x 4'2" Rear Nearside Single 1.88m x 0.65m / 6'2" x 2'2" Rear Offside Single 1.88m x 0.65m / 6'2" x 2'2" Rear Bunk (Upper) Rear Bunk (Lower) Rear Bunk (Lower)	Front Nearside Single			
Rear Nearside Single 1.88m x 0.65m / 6'2" x 2'2" Rear Offside Single 1.88m x 0.65m / 6'2" x 2'2" Rear Bunk (Upper) Rear Bunk (Lower)	Front Offside Single			
Rear Bunk (Lower) 1.88m x 0.65m / 6'2" x 2'2" Rear Bunk (Lower)	Rear Double	1.86m x 1.88m / 6'1" x 6'2"	1.86m x 1.28r	m / 6'1" x 4'2"
Rear Bunk (Upper) Rear Bunk (Lower)	Rear Nearside Single	1.88m x 0.65m / 6'2" x 2'2"		
Rear Bunk (Lower)	Rear Offside Single	1.88m x 0.65m / 6'2" x 2'2"		
	Rear Bunk (Upper)			
Nercah Bed	Rear Bunk (Lower)			
7707040 500	Overcab Bed			

Panel Van	Panel Van	Panel Van	Panel Van
130 HDI	130 HDI	130 HDI	130 HDI
2.2L	2.2L	2.2L	2.2L
Boxer 435	Boxer 335	Boxer 435	Boxer 335
4.04m/13'3"	4.04m/13'3"	4.04m/13'3"	4.04m/13'3"
3	3	3	3
3	3	4	4
6.36m/20'11"	6.00m/19'8"	6.36m/20'11"	6.00m/19'8"
2.05m/6'9"	2.05m/6'9"	2.05m/6'9"	2.05m/6'9"
2.26m/7'5"	2.26m/7'5"	2.26m/7'5"	2.26m/7'5"
2.51m/8'3"	2.51m/8'3"	2.51m/8'3"	2.51m/8'3"
2.72m/8'11"	2.72m/8'11"	2.72m/8'11"	2.72m/8'11"
3500kg	3500kg	3500kg	3500kg
3110kg	3045kg	3110kg	3030kg
390kg	455kg	390kg	470kg
2939kg	2870kg	2939kg	2855kg
9kg	9kg	9kg	9kg
Three	Three	Three	Three
		1.80m x 1.22m / 5'11" x 4'0"	
1.70m x 0.90m/0.54m / 5'7" x 2'11"/1'9"	1.70m x 0.90m/0.54m / 5'7" x 2'11"/1'9"	1.70m x 0.90m/0.54m / 5'7" x 2'11" / 1'9"	
1.85m x 1.30m / 6'1" x 4'3"	1.83m x 1.35m / 6'0" x 4'5"	1.86m x 1.20m / 6'1" x 3'11"	1.82m x 1.35m / 6'0" x 4'5'

Accent

Forte

Carrera 4

NOTE: 1. The Maximum User Payload includes: a) the conventional load (this is the allowance for passengers)

 essential habitation equipment (items and fluids required for safe and proper functioning of habitation equipment)

c) **optional equipment** (items available from the manufacturer over and above the standard specification)

d) **personal effects** (those items not covered by the above)

The Mass in Running Order is the mass of the unladen vehicle including a 75kg allowance for the driver plus engine coolants and 90% of the fuel tank and 100% gas capacity.

The MRO is equipped with the freeh unter tank.

The MRO is calculated with the fresh water tank empty. If you travel with water in the fresh water tank then the payload will reduce accordingly.

3. PLEASE TAKE CARE TO ENSURE THAT YOU HAVE ALLOWED FOR THE MASSES OF ALL ITEMS YOU INTEND TO CARRY IN THE MOTOR CARAVAN, e.g. passengers, optional equipment, essential habitation equipment and personal effects, such as clothing, food, pets, bicycles, sailboards, sports

4. WARNING - UNDER NO CIRCUMSTANCES SHOULD THE MAXIMUM TECHNICAL PERMISSIBLE LADEN MASS OF THIS MOTOR CARAVAN BE EXCEEDED.

* Estimated

Fiat Specifications

Model	Rhythm		Rhythm (Compact
Roof Profile	Panel Van		Pane	l Van
Engine Power	130 MJT	130 MJT Auto	130 MJT	130 MJT Auto
Engine Capacity	2.0	3L	2.0	3L
Chassis	Ducati	o 35L	Ducato	o 33Q
Wheel base	4.04m	/13'3"	3.45m	/11'4"
Designated Passenger Seats excluding Driver	1		1	
Berths (sleeping positions)	2)	2	2
Overall Length (no ladder)	6.00m	/19'8"	5.41m	/17'9"
Overall Width	2.05m	1/6'9"	2.05m	1/6'9"
Overall Width (mirrors folded)	2.26m	1/7'5"	2.26m	1/7'5"
Overall Width (mirrors extended)	2.51m	1/8'3"	2.51m	1/8'3"
Overall Height	2.72m	/8'11"	2.72m/8'11"	
Maximum Technical Permissible Laden Mass (A)	350	0kg	3300kg	
Mass in Running Order (B)	2945kg	2962kg	2810kg	2827kg
Maximum User Payload (A-B)	555kg	538kg	490kg	413kg
Unladen Weight	2770kg	2787kg	2635kg	2652kg
Essential Habitation Equipment	9k	(g	9kg	
Thermal Insulation Grade	Thr	ree	Thr	ree
Bed Sizes				
Front Double				
Front Nearside Single				
Front Offside Single				
Rear Double	1.86m x 1.88n	n / 6'1" x 6'2"	1.86m x 1.28n	n / 6'1" x 4'2"
Rear Nearside Single	1.88m x 0.65m / 6'2" x 2'2"			
Rear Offside Single	1.88m x 0.65n	n / 6'2" x 2'2"		
Rear Bunk (Upper)				
Rear Bunk (Lower)				
Overcab Bed				

Pane	Panel Van		Panel Van		Panel Van		el Van
130 MJT	130 MJT Auto	130 MJT	130 MJT Auto	130 MJT	130 MJT Auto	130 MJT	130 MJT Auto
2.	2.3L		2.3L		2.3L		3L
Duca	Ducato 35L		Ducato 35L		to 35L	Duca	to 35L
4.04n	1/13'3"	4.04m	/13'3"	4.04m	1/13'3"	4.04/	13'3"
	3	;	3		3		3
	3	;	3		4		2
6.36m	/20'11"	6.00m	/19'8"	6.36m	/20'11"	6.00/	19'8"
2.051	n/6'9"	2.05r	n/6'9"	2.05r	n/6'9"	2.05r	m/6'9"
2.26	n/7'5"	2.26r	n/7'5"	2.26r	n/7'5"	2.26r	m/7'5"
2.511	n/8'3"	2.51r	n/8'3"	2.51r	n/8'3"	2.51r	m/8'3"
2.72n	1/8'11"	2.72m	/8'11"	2.72m	1/8'11"	2.72	'8'11"
350	3500kg		3500kg)0kg	350)0kg
3070kg	3087kg	3045kg	3062kg	3070kg	3087kg	3030kg	3047kg
430kg	413kg	455kg	438kg	430kg	413kg	470kg	453kg
2899kg	2916kg	2870kg	2887kg	2899kg	2916kg	2855kg	2872kg
9	kg	9	⟨g	9	kg	9	kg
Th	ree	Three		Th	ree	Th	ree
				1.80m x 1.22n	n / 5'11" x 4'0"		
	90m/0.54m /		0m/0.54m /		90m/0.54m		
	5'7" x 2'11"/1'9"		5'7" x 2'11"/1'9"		'11" / 1'9"	400 405	/ 01011 / 11511
1.85m x 1.30	m / 6'1" x 4'3"	1.83m x 1.35i	n / 6'0" x 4'5"	1.86m x 1.20n	n / 6'1" x 3'11"	1.82m x 1.35	m / 6'0" x 4'5"

Accent

Forte

Carrera 4

Alto

- NOTE: 1. The Maximum User Payload includes: a) the conventional load (this is the allowance for passengers)
- b) essential habitation equipment (items and fluids required for safe and proper functioning of habitation equipment)
- c) optional equipment (items available from the manufacturer over and above the standard specification)
- d) **personal effects** (those items not covered by the above)
- 2. The **Mass in Running Order** is the mass of the unladen vehicle including a 75kg allowance for the driver plus engine coolants and 90% of the fuel tank, water tank and 100% gas capacity.

 The MRO is calculated with the fresh water tank empty. If you travel with water in the fresh water tank then the payload will reduce accordingly.
- 3. PLEASE TAKE CARE TO ENSURE THAT YOU HAVE ALLOWED FOR THE MASSES OF ALL ITEMS YOU INTEND TO CARRY IN THE MOTOR CARAVAN, e.g. passengers, optional equipment, essential
- habitation equipment and personal effects, such as clothing, food, pets, bicycles, sailboards, sports equipment etc.
- 4. WARNING UNDER NO CIRCUMSTANCES SHOULD THE MAXIMUM TECHNICAL PERMISSIBLE LADEN MASS OF THIS MOTOR CARAVAN BE EXCEEDED.
- * Estimated

Capacities

Water Tank Capacities

	Fresh Water Tank	Waste Water Tank	Water Heater
Rhythm Compact, Alto, Carrera & Forte	66 litre	41 litre	10 litre
Rhythm & Accent	100 litre	58 litre	10 litre

Gas Capacities

	Capacity
Forte	1 x 4.5kg plus 1 x 7kg
The rest	2 x 7kg

The above are recommended gas bottle sizes

NOTICE: For technical data on the base vehicle please refer to manufacturer's handbook

Towing Capabilities

Van Conversion Towing Capabilities

Model	Engine / Chassis	MTPLM	Permissible Front Axle Load	Permissible Rear Axle Load	Recommended Maximum Trailer Weight	Gross Train Weight
Rhythm	130 HDI (2.2L) / MJT (2.3L)	3500kg	1850kg	2000kg	2500kg	6000kg
Rhythm	130 MJT (2.3L) AUTO	3500kg	1850kg	2000kg	2500kg	6000kg
Rhythm Compact	110 HDI (2.2L)	3300kg	1750kg	1900kg	2500kg	5800kg
Rhythm Compact	130 HDI (2.2L) / MJT (2.3L)	3300kg	1750kg	1900kg	2500kg	5800kg
Rhythm Compact	130 MJT (2.3L) AUTO	3300kg	1750kg	1900kg	2500kg	5800kg
Alto	130 HDI (2.2L)**	3500kg	2100kg	2400kg	2500kg*	6000kg
Alto	130 MJT (2.3L)***	3500kg	1850kg	2000kg	2500kg*	6000kg
Alto	130 MJT (2.3L) AUTO	3500kg	1850kg	2000kg	2500kg*	6000kg
Accent	130 HDI (2.2L) / MJT (2.3L)	3500kg	1850kg	2000kg	2500kg*	6000kg
Accent	130 MJT (2.3L) AUTO	3500kg	1850kg	2000kg	2500kg*	6000kg
Forte	130 HDI (2.2L)**	3500kg	2100kg	2400kg	2500kg*	6000kg
Forte	130 MJT (2.3L)***	3500kg	1850kg	2000kg	2500kg*	6000kg
Forte	130 MJT (2.3L) AUTO	3500kg	1850kg	2000kg	2500kg*	6000kg
Carrera 4	130 HDI (2.2L) / MJT (2.3L)	3500kg	1850kg	1850kg	2500kg*	6000kg
Carrera 4	130 MJT (2.3L) AUTO	3500kg	1850kg	1850kg	2500kg*	6000kg

Please note that the additional weight of the tow bar and trailer nose weight increases the rear axle loading of the motor home so care should be taken that the rear axle load is not exceeded when towing.

To ensure adequate road holding, the load on the front axle, under all conditions, must not be less than 40% or more than 70% of the total weight.

Care must be taken when distributing loads. The loadings and weights above are maximums and must not be exceeded under any circumstances.

CAUTION: When fitting a towbar, it must meet certain minimum requirements as specified by Type Approval Regulations. The bar will have marked on it the approval standard (94/20/EC or 55R ECE) and the maximum download, or noseweight, that it can accept. It must fit the manufacturer's approved mounting points and must not obscure the towing vehicle's number plate.

^{*} With this vehicle configuration it will be necessary to reduce the payload carried inside the van when towing to ensure that the MTPLM and maximum axle loads are not exceeded.

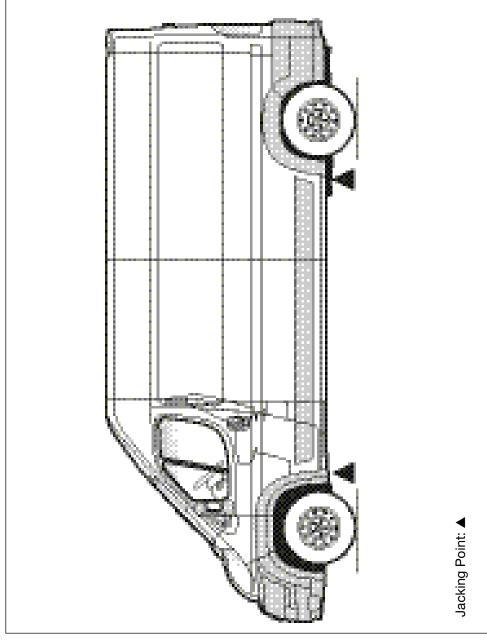
^{**} Peugeot 435 Heavy chassis

^{***} Fiat 35QL Light chassis

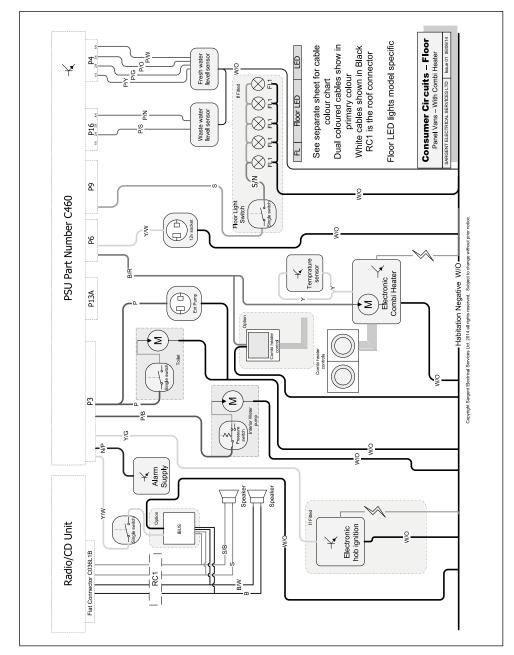
Jacking

Wiring Diagrams

Van Conversion



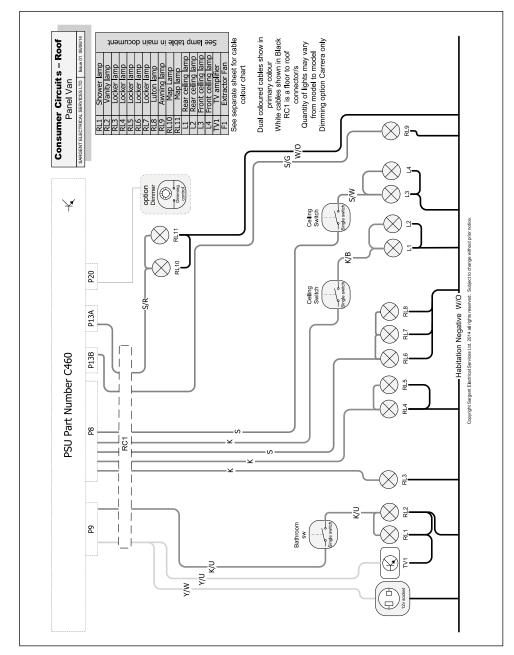
Consumer circuits floor with combi heater



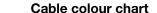
Power circuits

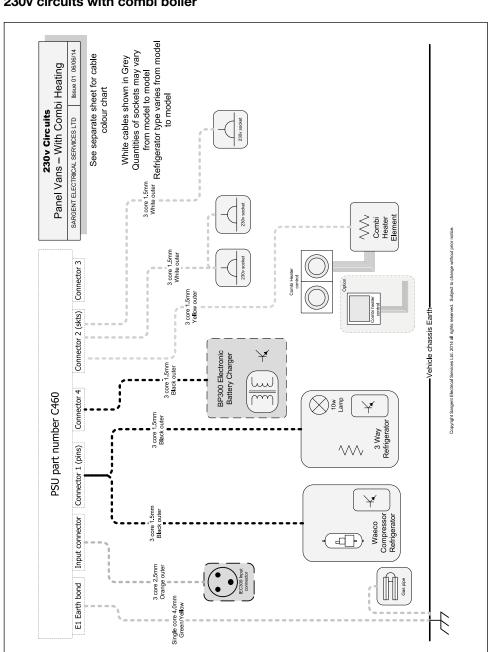
Dual coloured cables show in primary colour White cables shown in Black B-Conn refers to the battery harness connector See separate sheet for cable colour chart Power Circuits Panel Vans Σ PSU Part Number C460 P13A **□**

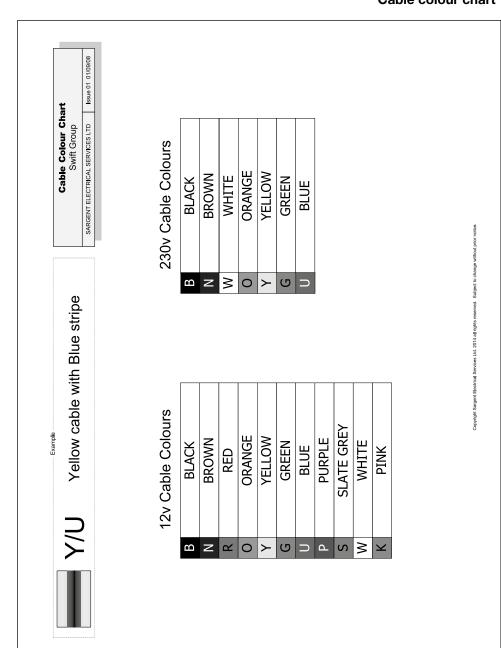
Consumer circuits roof



230v circuits with combi boiler







Replacement instructions

Road Lights					
See Fiat or Peugeot manual					
Interior / Other					
Application	Bulb Reference	Bulb Rating			
Locker spotlights, LED	FEM0854 complete lamp	12v LED			
China locker light	500mm cold cathode 4.5w light	12v 4.5w CCFL			
B-pillar map reading lamps	Complete lamp on 'swan neck' flexible arm	12v LED			
Awning lamp, LED	FEM0945 LED complete unit	12v LED			
Ceiling light, round, recessed	FEM0857 LED complete unit	12v LED			
Over locker lights & pelmet lights	FEM1214 flexible LED light strip (cut to length)	12v LED			
Illuminated panel backlighting	FEM1214 flexible LED light strip (cut to length)	12v LED			
Walkway single LED lights, Black surround	FEM0993 LED complete unit	12v LED			
Downlighter, ceiling panel, Black surround	FEM0993 LED complete unit	12v LED			
Downlighter, Chrome	FEM1189 LED complete unit	12v LED			
Bathroom downlighter, large, Chrome	Halogen capsule bulb	GU4 12v 5w			

Note: Not all lights feature on all models within a range

ROAD LIGHTING, PANEL VAN REAR LIGHT CLUSTER ACCESS

REAR ROAD LIGHT CLUSTERS

Bulb access is from the rear of the cluster. Please see the Fiat handbook for specific details of the clusters and individual lights contained within them.

The rear road light clusters are secured to the rear of the motorhome via nuts located on the rear of the cluster. To access these fixing nuts, an internal panel must be removed.

Two angled panels can be found at the rear of the motorhome, close to the rear door hinges. In the upper sections of these panels, a removable section exists (the removable panel may also house remote thermostats, light switches etc).

To remove the panel, first locate single screw cover caps at the top of the panel, using a flat bladed screwdriver or similar. Removing the screws will then allow the panel to be pulled up away from the corner of the vehicle, exposing a void with access to the rear of the lamp clusters.

Reverse the procedure and push fit the screw cover cap back into place once complete.

ROAD LIGHTING, FRONT OF VEHICLE

Please see the information contained within the Fiat or Peugeot handbook for details of access to headlight or side repeater bulbs.