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AUTOCRUISE VAN CONVERSION

TECHNICAL HANDBOOK

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Fiat Specifications

Model	Rhythm		Alto	
Roof Profile	Panel Van		Panel Van	
Engine Power	130 MJT	130 MJT Auto	130 MJT	130 MJT Auto
Engine Capacity	2.3L		2.3L	
Chassis	Ducato 35L		Ducato 35L	
Wheel base	4.04m/13'3"		4.04m/13'3"	
Designated Passenger Seats excluding Driver	1		3	
Berths (sleeping positions)	2		3	
Overall Length (no ladder)	6.00m/19'8"		6.36m/20'11"	
Overall Width	2.05m/6'9"		2.05m/6'9"	
Overall Width (mirrors folded)	2.26m/7'5"		2.26m/7'5"	
Overall Width (mirrors extended)	2.51m/8'3"		2.51m/8'3"	
Overall Height	2.72m/8'11"		2.72m/8'11"	
Maximum Technical Permissible Laden Mass (A)	3500kg		3500kg	
Mass in Running Order (B)	2945kg	2962kg	3055kg	3072kg
Maximum User Payload (A-B)	555kg	538kg	445kg	428kg
Unladen Weight	2788kg	2805kg	2899kg	2916kg
Essential Habitation Equipment	10kg		10kg	
Thermal Insulation Grade	Three		Three	
Bed Sizes				
Front Double				
Front Nearside Single				
Front Offside Single			1.70m x 0.90m/0.54m / 5'7" x 2'11"/1'9"	
Rear Double	1.86m x 1.88m / 6'1" x 6'2"		1.85m x 1.30m / 6'1" x 4'3"	
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)				
Overcab Bed				

Accent		Forte	
Panel Van		Panel Van	
130 MJT	130 MJT Auto	130 MJT	130 MJT Auto
2.3L		2.3L	
Ducato 35L		Ducato 35L	
4.04m/13'3"		4.04m/13'3"	
3		3	
3		4	
6.00m/19'8"		6.36m/20'11"	
2.05m/6'9"		2.05m/6'9"	
2.26m/7'5"		2.26m/7'5"	
2.51m/8'3"		2.51m/8'3"	
2.72m/8'11"		2.72m/8'11"	
3500kg		3500kg	
3045kg	3062kg	3075kg	3092kg
455kg	438kg	425kg	408kg
2889kg	2906kg	2919kg	2936kg
10kg		10kg	
Three		Three	
		1.76m x 1.22m / 5'9" 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"	
1.83m x 1.35m / 6'0" x 4'5"		1.86m x 1.20m / 6'1" x 3'11"	

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 1 x 6kg Calor Lite gas cylinder. 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
Alto & Forte	59 litre	41 litre	10 litre
Rhythm & Accent	93 litre	58 litre	10 litre

LPG Locker Capacity

	Capacity
All models	2 x 7kg

The above are recommended gas bottle sizes

NOTICE : For technical data on the base vehicle please refer to the 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	MJT (2.3L)	3500kg	1850kg	2000kg	2500kg	6000kg
Rhythm	130 MJT (2.3L) AUTO	3500kg	1850kg	2000kg	2500kg	6000kg
Alto	130 MJT (2.3L)	3500kg	1850kg	2000kg	2500kg	6000kg
Alto	130 MJT (2.3L) AUTO	3500kg	1850kg	2000kg	2500kg	6000kg
Accent	MJT (2.3L)	3500kg	1850kg	2000kg	2500kg	6000kg
Accent	130 MJT (2.3L) AUTO	3500kg	1850kg	2000kg	2500kg	6000kg
Forte	130 MJT (2.3L)	3500kg	1850kg	2000kg	2500kg	6000kg
Forte	130 MJT (2.3L) AUTO	3500kg	1850kg	2000kg	2500kg	6000kg

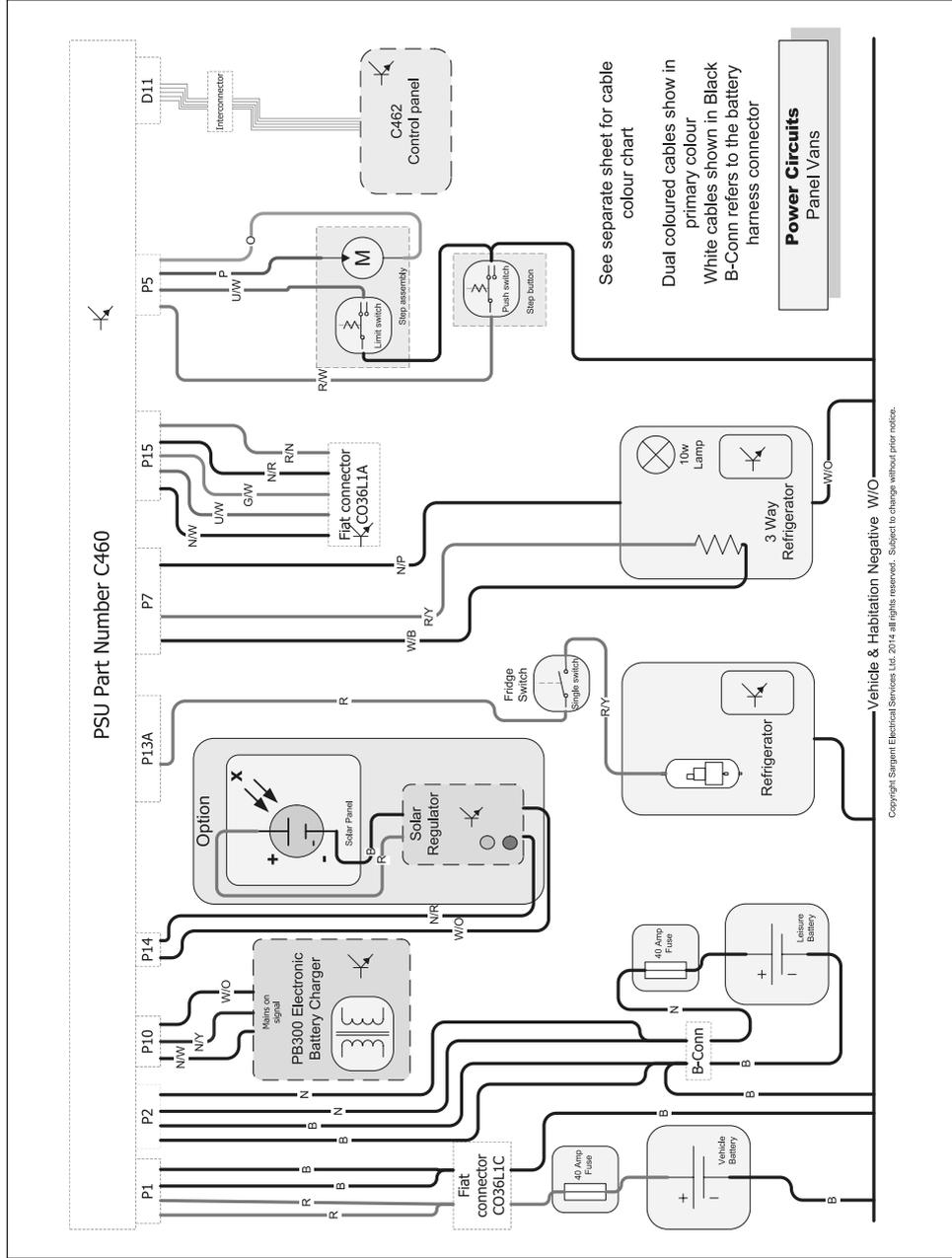
Please note that the additional weight of the tow bar and trailer nose weight increases the rear axle loading of the motor home so care should be taken that the rear axle load is not exceeded when towing.

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.

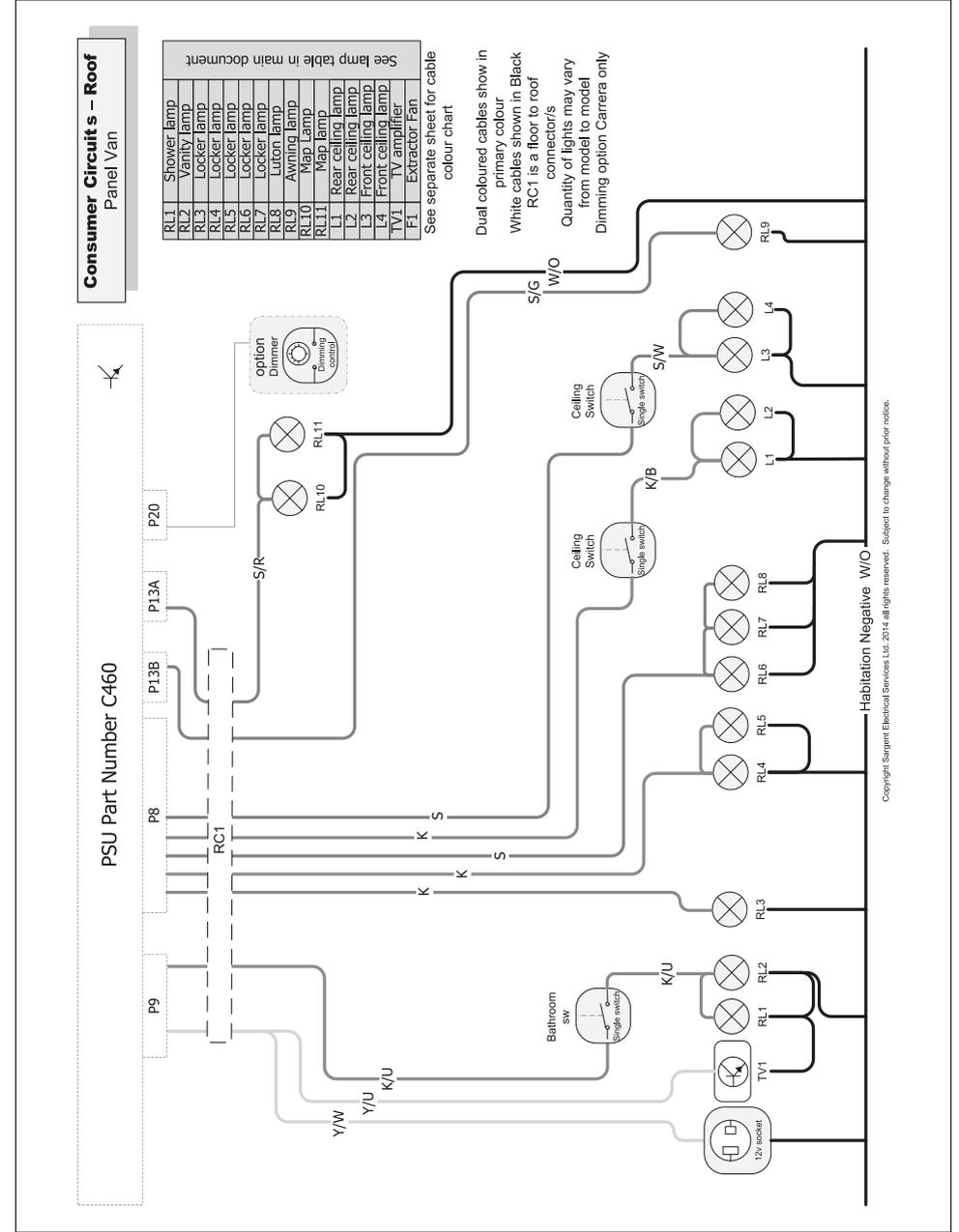
Care must be taken when distributing loads. The loadings and weights above are maximums and must not be exceeded under any circumstances.

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.

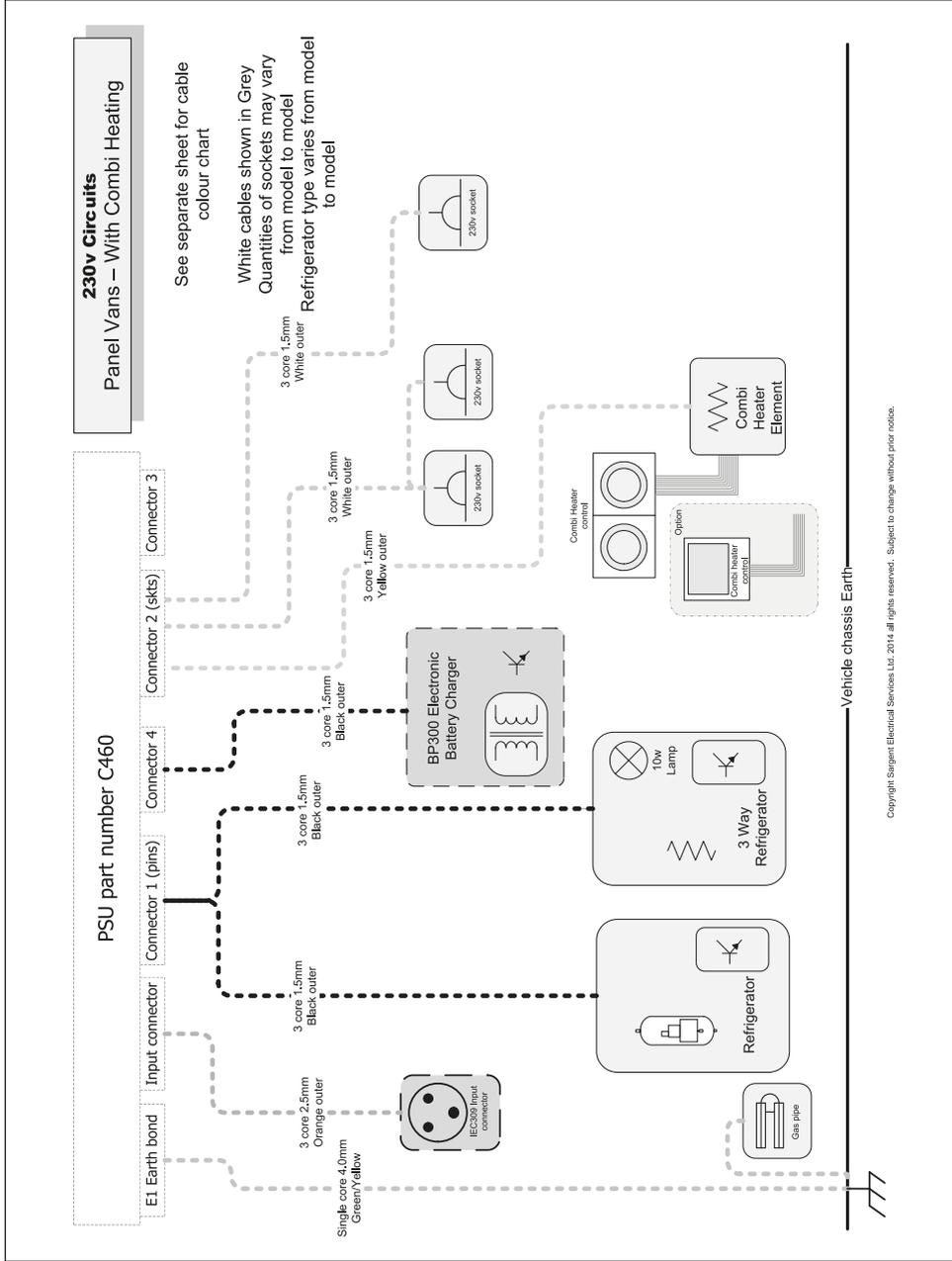
Power circuits



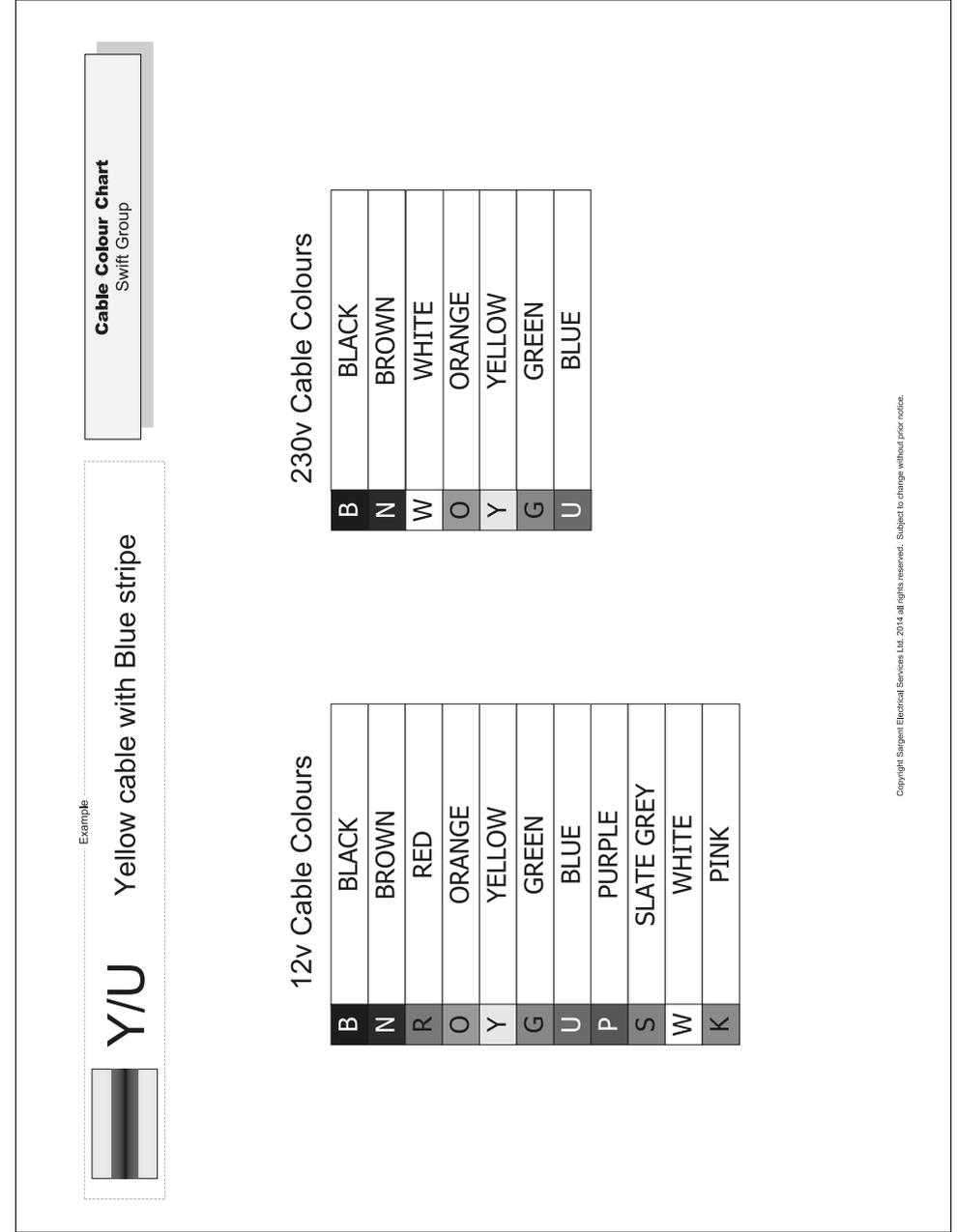
Consumer circuits roof



230v circuits with combi boiler



Cable colour chart



Bulb Chart

Road Lights		
Interior / Other		
Application	Bulb Reference	Bulb Rating
Locker spotlights, LED	LED complete lamp FEM0854	12v LED
China locker light	LED complete unit FEM1374	12v LED
B-pillar map reading lamps	Complete lamp on 'swan neck' flexible arm	12v LED
Awning lamp, LED	LED complete unit FEM0945	12v LED
Ceiling light, round, recessed	LED complete lamp FEM0857	12v LED
Over locker lights & pelmet lights	Flexible LED light strip FEM1214 (cut to length)	12v LED
Illuminated panel backlighting	Flexible LED light strip FEM1214 (cut to length)	12v LED
Walkway single LED lights, Black surround	LED complete unit FEM0993	12v LED
Downlighter, Chrome	LED complete unit FEM1189	12v LED
Bathroom downlighter, large, Chrome	Halogen capsule bulb	GU4 12v 5w

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

Replacement instructions

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.