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# RIO, BESSACARR, BOLERO AND KON-TIKI

## TECHNICAL HANDBOOK

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## Rio Towing Capabilities

### Rio Towing Capabilities

Model	MTPLM	Permissible Front Axle Load	Permissible Rear Axle Load	Recommended Maximum Trailer Weight	Gross Train Weight
Rio 310	3500kg	1850kg	2000kg	2000kg	5500kg
Rio 320	3500kg	1850kg	2000kg	2000kg	5500kg
Rio 325	3500kg	1850kg	2000kg	2000kg	5500kg
Rio 340	3500kg	1850kg	2000kg	2000kg	5500kg

**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.

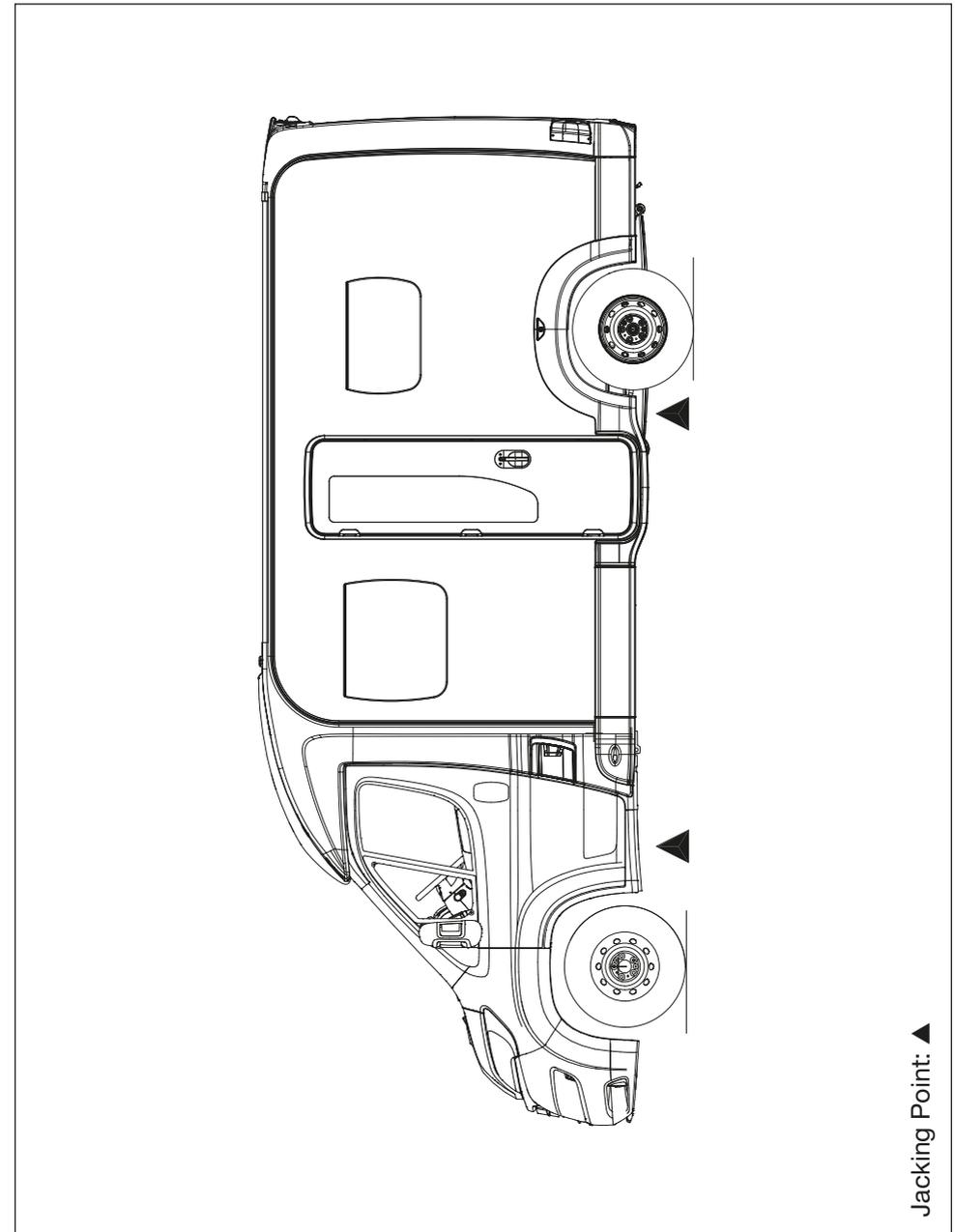
To ensure adequate road holding, the load on the front axle, under all conditions, must not be less than 40% or more than 70% of the total weight.

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.

## Rio Jacking

### Rio Jacking Points



Jacking Point: ▲







# Bessacarr Specifications

Model	Bessacarr 496 Standard	Bessacarr 496 Optional
Roof Profile	High Line	
Engine	130 MJT	130 MJT AUTO
Engine Capacity	2.3Ltr	2.3Ltr
Engine Power	96kW @ 3600rpm	96kW @ 3600rpm
Torque	320 @ 1800rpm	320 @ 1800rpm
Chassis	Fiat/AL-KO Low Line Chassis	
Wheel base	4.70m/15'5"	
Designated Passenger Seats excluding Driver	5	
Berths (sleeping positions)	6	
Overall Length (no ladder)**	7.75m/25'5"	
Overall Width (mirrors folded)	2.38m/7'10"	
Overall Height**	2.82m/9'3"	
Maximum Technical Permissible Laden Mass (A)	4250kg	
Mass in Running Order (B)	3330kg	3347kg
Maximum User Payload (A-B)	920kg	903kg
Unladen Weight	3174kg	3191kg
Essential Habitation Equipment	0kg	
Thermal Insulation Grade	THREE	
<b>Bed Sizes</b>		
Front Double	2.09m x 1.80m/1.21m/6'9" x 5'11"/4'0"	
Front Nearside Single		
Front Offside Single	1.80m x 0.92m/5'11" x 3'0"	
Rear Double	2.02m x 1.63m/6'11" x 5'3"	
Rear Nearside Single	1.81m x 0.64m/5'9" x 2'2"	
Rear Offside Single	1.63m x 0.64m/5'3" x 2'2"	
Manual Drop Down Bed	1.96m x 1.33m/6'4" x 4'3"	

**NOTE:** 1. The **Maximum User Payload** includes:

- the **conventional load** (this is the allowance for passengers)
- essential habitation equipment** (items and fluids required for safe and proper functioning of habitation equipment)
- optional equipment** (items available from the manufacturer over and above the standard specification)
- 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 and 1 x 6kg Calor Lite LPG cylinder.

3. The Mass in running order is calculated with the fresh water tank and water heater empty. If you travel with water in the fresh water tank or water heater then the payload will reduce accordingly.

4. 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.

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

\* Estimated

\*\* For Optional Roof Ladder (Add 125mm length and 40mm height)

# Capacities

## Water Tank Capacities

	Fresh Water Tank	Waste Water Tank	Water Heater
Bessacarr	90 litre	68 litre	10 litre
Bessacarr 462	94 litre	60 litre	10 litre

## LPG Locker Capacity

	Capacity
Bessacarr	2 x 13kg
Bessacarr 424	2 x 6kg

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

# Bessacarr Towing Capabilities

## Bessacarr Towing Capabilities

Model	MTPLM	Permissible Front Axle Load	Permissible Rear Axle Load	Recommended Maximum Trailer Weight	Gross Train Weight
Bessacarr 412**	3500kg	1850kg	2000kg	1600kg	5100kg
Bessacarr 424**	3500kg	1850kg	2000kg	1600kg	5100kg
Bessacarr 462	3500kg	1850kg	2000kg	1600kg	5100kg
Bessacarr 484 Lounge**	3500kg	1850kg	2000kg	1600kg	5100kg
Bessacarr 484**	3500kg	1850kg	2000kg	1600kg	5100kg
Bessacarr 454	3500kg	1850kg	2000kg	1600kg	5100kg
Bessacarr 442	3500kg	1850kg	2000kg	1600kg	5100kg
Bessacarr 494 Lounge	3500kg	1850kg	2000kg	2000kg	5500kg
Bessacarr 494	3700kg	1850kg	2000kg <sup>#</sup>	2000kg	5500kg
Bessacarr 496	4250kg	2100kg	2500kg <sup>#</sup>	2000kg	6000kg

**⚠ 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.

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.

\*\* 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.

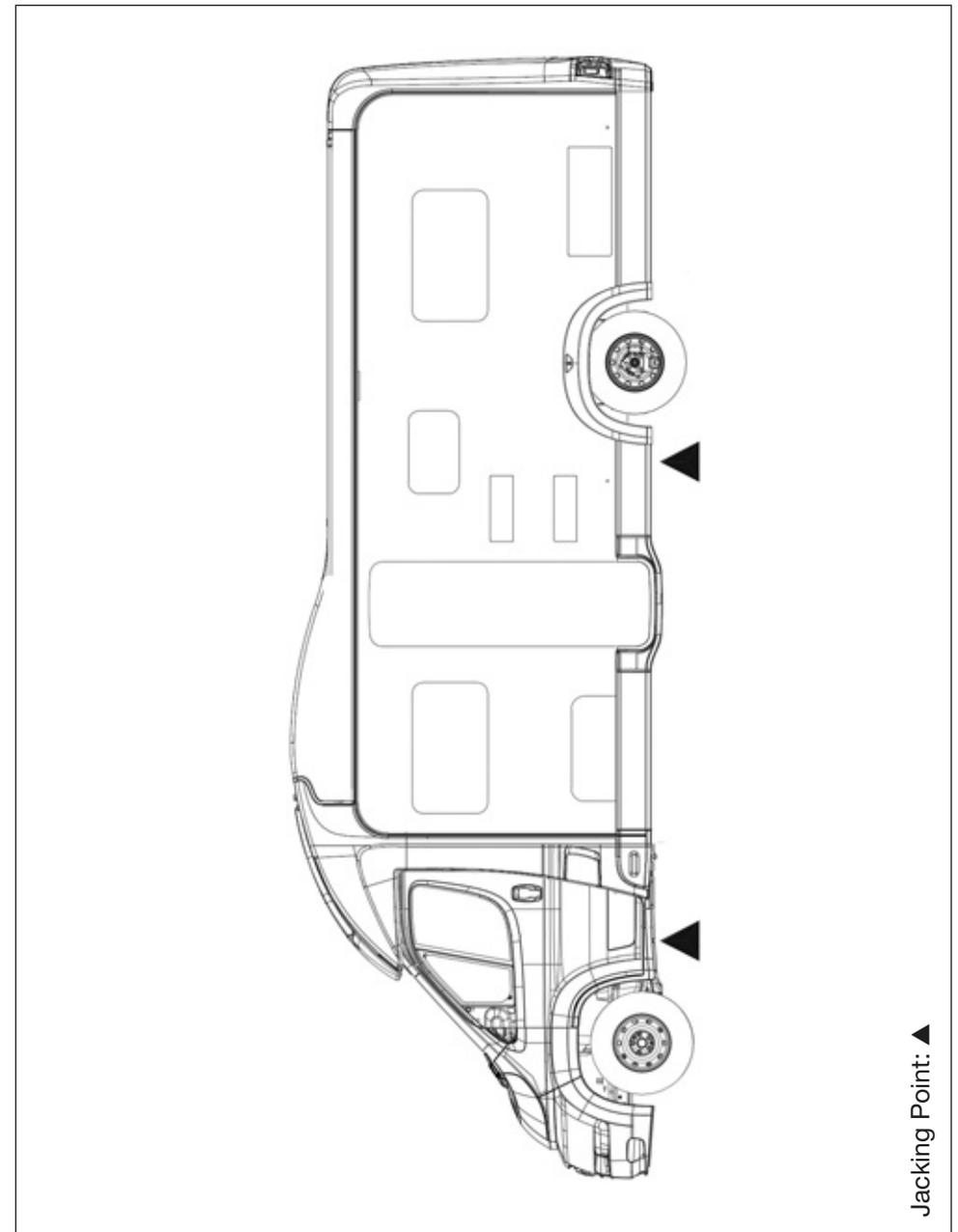
# The maximum trailer weight is limited by the gross train weight which must not be exceeded. For example if the vehicle is at the maximum MTPLM of 3700kg, then the maximum trailer weight possible is 1800kg. Reducing the weight of the vehicle by removing payload, will allow you to increase the trailer weight up to a maximum of 2000kg.

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.

# Bessacarr Jacking

## Bessacarr Jacking Points



Jacking Point: ▲



# Bolero Specifications

Model	Bolero 714SB Lounge		Bolero 714SB	
Roof Profile	Low Profile		Low Profile	
Engine	150 MJT	150 MJT Auto	150 MJT	150 MJT Auto
Engine Capacity	2.3Ltr		2.3Ltr	
Engine Power	110kW @ 3600rpm		110kW @ 3600rpm	
Torque	380Nm @ 1500rpm		380Nm @ 1500rpm	
Chassis	Fiat AL-KO low line			
Wheel base	4.40m/14'5"			
Designated Passenger Seats excluding Driver	1		3	
Berths (sleeping positions)	4		4	
Overall Length (no ladder)**	7.77m/25'6"		7.77m/25'6"	
Overall Width (mirrors folded)	2.38m/7'10"		2.38m/7'10"	
Overall Height	2.79m/9'2"		2.79m/9'2"	
Maximum Technical Permissible Laden Mass (A)	4250kg	4250kg	4250kg	4250kg
Mass in Running Order (B)	3235kg	3252kg	3295kg	3312kg
Maximum User Payload (A-B)	1015kg	998kg	955kg	938kg
Unladen Weight	3079kg	3096kg	3139kg	3156kg
Essential Habitation Equipment	0kg		0kg	
Thermal Insulation Grade	THREE		THREE	
Bed Sizes				
Front Double	2.01m x 1.21m/1.04m / 6'7" x 4'0"/3'5"			
Front Nearside Single				
Front Offside Single				
Rear Double				
Rear Nearside Single	1.91m x 0.71m / 6'3" x 2'4"			
Rear Offside Single	1.95m x 0.71m / 6'5" x 2'4"			

**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 and 1 x 6kg Calor Lite LPG cylinder.  
3. The Mass in running order is calculated with the fresh water tank and water heater empty. If you travel with water in the fresh water tank or water heater then the payload will reduce accordingly. (Note. The central heating fluid is included in the MRO)

4. 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.  
5. **WARNING** - UNDER NO CIRCUMSTANCES SHOULD THE MAXIMUM TECHNICAL PERMISSIBLE LADEN MASS OF THIS MOTOR CARAVAN BE EXCEEDED.  
\*\* For optional roof ladder add 100mm.

Bolero 724FB Lounge		Bolero 724FB		Bolero 744PR	
Low Profile		Low Profile		Low Profile	
150 MJT	150 MJT Auto	150 MJT	150 MJT Auto	150 MJT	150 MJT Auto
2.3Ltr		2.3Ltr		2.3Ltr	
110kW @ 3600rpm		110kW @ 3600rpm		110kW @ 3600rpm	
380Nm @ 1500rpm		380Nm @ 1500rpm		380Nm @ 1500rpm	
Fiat AL-KO low line					
4.40m/14'5"					
1		3		3	
4		4		4	
7.77m/25'6"		7.77m/25'6"		8.07m/26'6"	
2.38m/7'10"		2.38m/7'10"		2.38m/7'10"	
2.79m/9'2"		2.79m/9'2"		2.79m/9'2"	
4250kg		4250kg		4250kg	
3260kg	3277kg	3280kg	3297kg	3390kg	3407kg
990kg	973kg	970kg	953kg	860kg	843kg
3104kg	3121kg	3124kg	3141kg	3234kg	3234kg
0kg		0kg		0kg	
THREE		THREE		THREE	
		2.01m x 1.21m/1.04m / 6'7" x 4'0"/3'5"		2.01m x 1.51m/1.04m / 6'7" x 4'11"/3'5"	
		1.85m x 1.30m / 6'1" x 4'3"		2.01m x 1.85m / 6'7" x 6'1"	
				1.85m x 0.68m / 6'1" x 2'3"	
				1.85m x 0.68m / 6'1" x 2'3"	

## Bolero Capacities

### Water Tank Capacities

	Fresh Water Tank	Waste Water Tank	Water Heater
All models	94 litre	95 litre	8.5 litre

### LPG Locker Capacity

	Capacity
Bolero	2 x 13kg

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

## Bolero Towing Capabilities

### Bolero Towing Capabilities

Model	Engine / Chassis	MTPLM	Permissible Front Axle Load	Permissible Rear Axle Load	Recommended Maximum Trailer Weight	Gross Train Weight
Bolero 684FB†	130 / 150 MJT (2.3L)	3700kg	1850kg	2000kg	2000kg	5500kg
Bolero 684FB Lounge	130 / 150 MJT (2.3L)	3500kg	1850kg	2000kg	2000kg	5500kg
Bolero 714SB†	130 / 150 MJT (2.3L)	4250kg	2100kg	2500kg	2000kg	6000kg
Bolero 714SB† Lounge	130 / 150 MJT (2.3L)	4250kg	2100kg	2500kg	2000kg	6000kg
Bolero 724FB†	130 / 150 MJT (2.3L)	4250kg	2100kg	2500kg	2000kg	6000kg
Bolero 724FB† Lounge	130 / 150 MJT (2.3L)	4250kg	2100kg	2500kg	2000kg	6000kg
Bolero 744PR†	130 / 150 MJT (2.3L)	4250kg	2100kg	2500kg	2000kg	6000kg

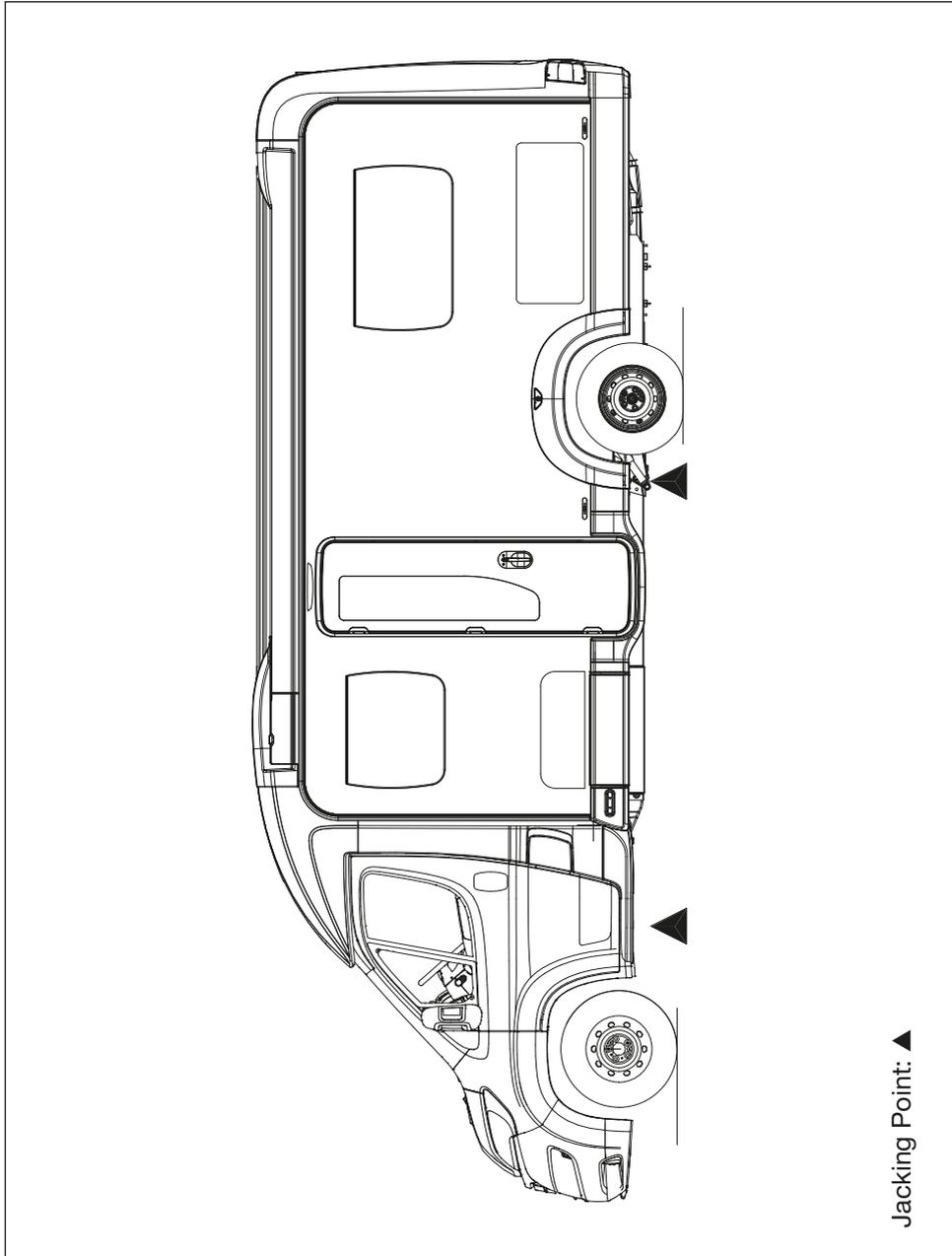
† The maximum trailer weight is limited by the Gross Train Weight which must not be exceeded. For example, if the vehicle is at the maximum MTPLM of 4250kg, then the maximum trailer weight possible is 1750kg. Reducing the weight of the vehicle by removing payload, will allow you to increase the trailer weight up to a maximum of 2000kg.

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.

## Swift Bolero



# Kon-tiki Specifications

Model	Kon-Tiki 625			
	Low Line		Low Line	
Roof Profile				
Engine	150 MJT	150 MJT Auto (Option)	180 MJT (Option)	180 MJT Auto (Option)
Engine Capacity	2.3Ltr	2.3Ltr	2.3Ltr	2.3Ltr
Max Power	110kW @ 3600rpm	110kW @ 3600rpm	131kW @ 3500rpm	131kW @ 3500rpm
Torque	380Nm @ 1500rpm	380Nm @ 1500rpm	400Nm @ 1500rpm	400Nm @ 1500rpm
Chassis	Fiat AL-KO low line		Fiat AL-KO low line	
Wheel base	4.60m /15' 1"		4.60m /15' 1"	
Designated Passenger Seats	3		3	
Berths (sleeping positions)	4		4	
Overall Length**	8.06m/ 26' 5"		8.06m/ 26' 5"	
Overall Width (mirrors folded)	2.35m/ 7' 8"		2.35m/ 7' 8"	
Overall Height***	2.98m/ 9' 9"		2.98m/ 9' 9"	
Maximum Technical Permissible Laden Mass (A)	4250kg		4250kg	
Mass in Running Order (B)	3716kg	3733kg	3716kg	3733kg
Maximum User Payload (A-B)	534kg	517kg	534kg	517kg
Unladen Weight	3560kg	3577kg	3560kg	3577kg
Essential Habitation Equipment	0kg		0kg	
Thermal Insulation Grade	THREE		THREE	
<b>Bed Sizes</b>				
Front Double	2.08m x 1.17m/ 6'10" x 3'10"			
Front Offside Single				
Rear Double	1.86m x 1.30m/ 6'1" x 4'3"			
Rear Offside Single				
Rear Nearside Single				
Overcab Bed				

Model	Kon-Tiki 625 Lounge			
	Low Line		Low Line	
Roof Profile				
Engine	150 MJT	150 MJT Auto (Option)	180 MJT (Option)	180 MJT Auto (Option)
Engine Capacity	2.3Ltr	2.3Ltr	2.3Ltr	2.3Ltr
Max Power	110kW @ 3600rpm	110kW @ 3600rpm	131kW @ 3500rpm	131kW @ 3500rpm
Torque	380Nm @ 1500rpm	380Nm @ 1500rpm	400Nm @ 1500rpm	400Nm @ 1500rpm
Chassis	Fiat AL-KO low line		Fiat AL-KO low line	
Wheel base	4.60m /15' 1"		4.60m /15' 1"	
Designated Passenger Seats	1		1	
Berths (sleeping positions)	4		4	
Overall Length**	8.06m/ 26' 5"		8.06m/ 26' 5"	
Overall Width (mirrors folded)	2.35m/ 7' 8"		2.35m/ 7' 8"	
Overall Height***	2.98m/ 9' 9"		2.98m/ 9' 9"	
Maximum Technical Permissible Laden Mass (A)	4250kg		4250kg	
Mass in Running Order (B)	3681kg	3698kg	3681kg	3698kg
Maximum User Payload (A-B)	569kg	552kg	569kg	552kg
Unladen Weight	3525kg	3542kg	3525kg	3542kg
Essential Habitation Equipment	0kg		0kg	
Thermal Insulation Grade	THREE		THREE	
<b>Bed Sizes</b>				
Front Double	2.08m x 1.17m/ 6'10" x 3'10"			
Front Offside Single				
Rear Double	1.86m x 1.30m/ 6'1" x 4'3"			
Rear Offside Single				
Rear Nearside Single				
Overcab Bed				

**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 and 1 x 6kg Calor Lite LPG cylinder.
3. The MRO is calculated with the fresh water tank and water heater empty. If you travel with water in the fresh water tank or water heater then the payload will reduce accordingly.
4. 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.

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

- \* Estimated
- \*\* Add 120mm to length if ladder option fitted.
- \*\*\* Add 100mm to height on low line if ladder option fitted.

# Kon-tiki Specifications

Model	Kon-Tiki 635			
	Low Line		Low Line	
Roof Profile				
Engine	150 MJT	150 MJT Auto (Option)	180 MJT (Option)	180 MJT Auto (Option)
Engine Capacity	2.3Ltr	2.3Ltr	2.3Ltr	2.3Ltr
Max Power	110kW @ 3600rpm	110kW @ 3600rpm	131kW @ 3500rpm	131kW @ 3500rpm
Torque	380Nm @ 1500rpm	380Nm @ 1500rpm	400Nm @ 1500rpm	400Nm @ 1500rpm
Chassis	Fiat AL-KO low line		Fiat AL-KO low line	
Wheel base	4.60m /15' 1"		4.60m /15' 1"	
Designated Passenger Seats	3		3	
Berths (sleeping positions)	4		4	
Overall Length**	8.06m/ 26' 5"		8.06m/ 26' 5"	
Overall Width (mirrors folded)	2.35m/ 7' 8"		2.35m/ 7' 8"	
Overall Height***	2.98m/ 9' 9"		2.98m/ 9' 9"	
Maximum Technical Permissible Laden Mass (A)	4250kg		4250kg	
Mass in Running Order (B)	3704kg	3721kg	3704kg	3721kg
Maximum User Payload (A-B)	546kg	529kg	546kg	529kg
Unladen Weight	3548kg	3565kg	3548kg	3565kg
Essential Habitation Equipment	0kg		0kg	
Thermal Insulation Grade	THREE		THREE	
Bed Sizes				
Front Double	2.04m x 0.96m/ 6'8" x 3'2"			
Front Offside Single				
Rear Double	2.03m x 1.23m/ 6'8" x 4'0"			
Rear Offside Single	1.87m x 0.70m/ 6'2" x 2'4"			
Rear Nearside Single	1.87m x 0.70m/ 6'2" x 2'4"			
Overcab Bed				

Model	Kon-Tiki 635 Lounge			
	Low Line		Low Line	
Roof Profile				
Engine	150 MJT	150 MJT Auto (Option)	180 MJT (Option)	180 MJT Auto (Option)
Engine Capacity	2.3Ltr	2.3Ltr	2.3Ltr	2.3Ltr
Max Power	110kW @ 3600rpm	110kW @ 3600rpm	131kW @ 3500rpm	131kW @ 3500rpm
Torque	380Nm @ 1500rpm	380Nm @ 1500rpm	400Nm @ 1500rpm	400Nm @ 1500rpm
Chassis	Fiat AL-KO low line		Fiat AL-KO low line	
Wheel base	4.60m /15' 1"		4.60m /15' 1"	
Designated Passenger Seats	1		1	
Berths (sleeping positions)	4		4	
Overall Length**	8.06m/ 26' 5"		8.06m/ 26' 5"	
Overall Width (mirrors folded)	2.35m/ 7' 8"		2.35m/ 7' 8"	
Overall Height***	2.98m/ 9' 9"		2.98m/ 9' 9"	
Maximum Technical Permissible Laden Mass (A)	4250kg		4250kg	
Mass in Running Order (B)	3669kg	3686kg	3669kg	3686kg
Maximum User Payload (A-B)	581kg	564kg	581kg	564kg
Unladen Weight	3513kg	3530kg	3513kg	3530kg
Essential Habitation Equipment	0kg		0kg	
Thermal Insulation Grade	THREE		THREE	
Bed Sizes				
Front Double	2.04m x 0.96m/ 6'8" x 3'2"			
Front Offside Single				
Rear Double	2.03m x 1.23m/ 6'8" x 4'0"			
Rear Offside Single	1.87m x 0.70m/ 6'2" x 2'4"			
Rear Nearside Single	1.87m x 0.70m/ 6'2" x 2'4"			
Overcab Bed				

**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 and 1 x 6kg Calor Lite LPG cylinder.
- 3. The MRO is calculated with the fresh water tank and water heater empty. If you travel with water in the fresh water tank or water heater then the payload will reduce accordingly.
- 4. 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.

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

- \* Estimated
- \*\* Add 120mm to length if ladder option fitted.
- \*\*\* Add 100mm to height on low line if ladder option fitted.

# Kon-tiki Specifications

Model	Kon-Tiki 649			
Roof Profile	High Line		High Line	
Engine	150 MJT	150 MJT Auto (Option)	180 MJT (Option)	180 MJT Auto (Option)
Engine Capacity	2.3Ltr	2.3Ltr	2.3Ltr	2.3Ltr
Max Power	110kW @ 3600rpm	110kW @ 3600rpm	131kW @ 3500rpm	131kW @ 3500rpm
Torque	380Nm @ 1500rpm	380Nm @ 1500rpm	400Nm @ 1500rpm	400Nm @ 1500rpm
Chassis	Fiat AL-KO low line		Fiat AL-KO low line	
Wheel base	4.60m /15' 1" - 0.80m/2' 7"		4.60m /15' 1" - 0.80m/2' 7"	
Designated Passenger Seats	5		5	
Berths (sleeping positions)	6		6	
Overall Length**	8.56m/ 28' 1"		8.56m/ 28' 1"	
Overall Width (mirrors folded)	2.35m/ 7' 8"		2.35m/ 7' 8"	
Overall Height***	3.08m/ 10' 1"		3.08m/ 10' 1"	
Maximum Technical Permissible Laden Mass (A)	5000kg		5000kg	
Mass in Running Order (B)	4185kg	4202kg	4185kg	4202kg
Maximum User Payload (A-B)	815kg	798kg	815kg	798kg
Unladen Weight	4029kg	4046kg	4029kg	4046kg
Essential Habitation Equipment	0kg		0kg	
Thermal Insulation Grade	THREE		THREE	
<b>Bed Sizes</b>				
Front Double	2.09m x 1.38m/ 6'10" x 4'6"			
Front Offside Single				
Rear Double	2.08m x 1.39m/ 6'10" x 4'7"			
Rear Offside Single	1.86m x 0.70m/ 6'1" x 2'4"			
Rear Nearside Single	1.88m x 0.70m/ 6'2" x 2'4"			
Overcab Bed	1.91m x 1.37m/ 6'3" x 4'6"			

**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 and 1 x 6kg Calor Lite LPG cylinder.
- 3. The MRO is calculated with the fresh water tank and water heater empty. If you travel with water in the fresh water tank or water heater then the payload will reduce accordingly.
- 4. 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.

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

- \* Estimated
- \*\* Add 120mm to length if ladder option fitted.
- \*\*\* Add 100mm to height on low line if ladder option fitted.

Kon-Tiki 669			
Low Line		Low Line	
150 MJT	150 MJT Auto (Option)	180 MJT (Option)	180 MJT Auto (Option)
2.3Ltr	2.3Ltr	2.3Ltr	2.3Ltr
110kW @ 3600rpm	110kW @ 3600rpm	131kW @ 3500rpm	131kW @ 3500rpm
380Nm @ 1500rpm	380Nm @ 1500rpm	400Nm @ 1500rpm	400Nm @ 1500rpm
Fiat AL-KO low line		Fiat AL-KO low line	
4.60m /15' 1" - 0.80m/2' 7"		0m /15' 1" - 0.80m/2' 7"	
3		3	
4		4	
8.56m/ 28' 1"		8.56m/ 28' 1"	
2.35m/ 7' 8"		2.35m/ 7' 8"	
2.98m/ 9' 9"		2.98m/ 9' 9"	
5000kg		5000kg	
4025kg	4042kg	4025kg	4042kg
975kg	958kg	975kg	958kg
3869kg	3886kg	3869kg	3886kg
0kg		0kg	
THREE		THREE	
<b>Bed Sizes</b>			
2.08m x 1.38m/ 6'10" x 4'6"			
1.86m x 1.30m/ 6'1" x 4'3"			





## Kon-tiki Capacities

### Water Tank Capacities

	Fresh Water Tank	Waste Water Tank	Water Heater
Kon-Tiki	125 litre	100 litre	8.5 litre

### LPG Locker Capacity

	Capacity
Kon-Tiki	2 x 13kg

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

# Kon-tiki Towing Capabilities

## Kon-Tiki Towing Capabilities

Model	MTPLM	Permissible Front Axle Load
Kon-Tiki 625 (L)	4250kg	2100kg
Kon-Tiki 625 Lounge (L)	4250kg	2100kg
Kon-Tiki 635 (L)	4250kg	2100kg
Kon-Tiki 635 Lounge (L)	4250kg	2100kg
Kon-Tiki 649 (H)	5000kg	2100kg
Kon-Tiki 669 (L)	5000kg	2100kg
Kon-Tiki 669 (H)	5000kg	2100kg
Kon-Tiki 679 (L)	5000kg	2100kg
Kon-Tiki 679 (H)	5000kg	2100kg

**⚠ 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.

# **The maximum trailer weight is limited by the Gross Train Weight which must not be exceeded.** For example, if the vehicle is at the maximum MTPLM of 5000kg, then the maximum trailer weight possible is 1000kg. Reducing the weight of the vehicle by removing payload, will allow you to increase the trailer weight up to a maximum of 1600kg.

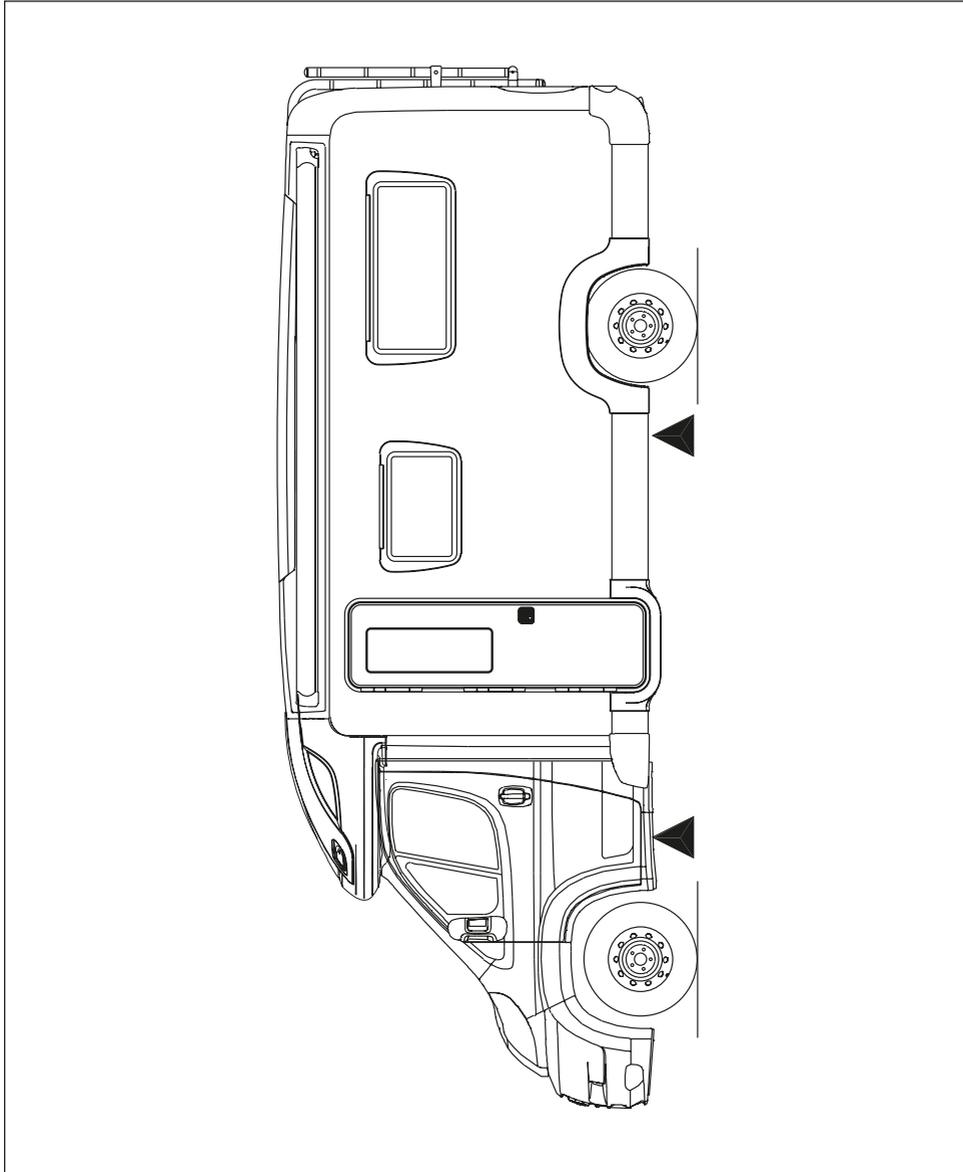
To ensure adequate road holding, the load on the front axle, under all conditions, must not be less than 40% or more than 70% of the total weight.

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

† Maximum trailer nose weight limited to 40kg

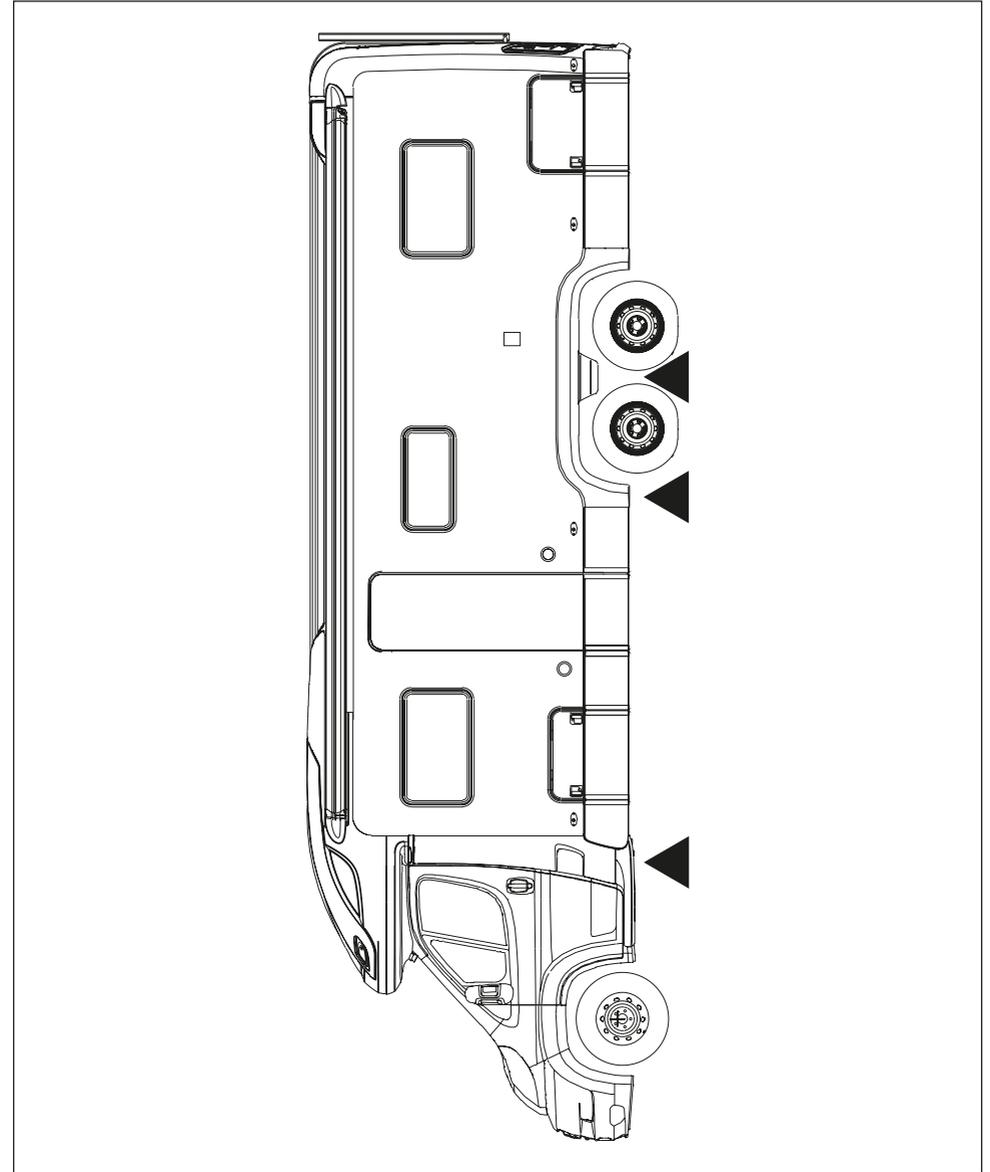
Permissible Rear Axle Load	Recommended Maximum Trailer Weight†	Gross Train Weight
2500kg	1750kg < 2000kg†	6000kg
2500kg	1750kg < 2000kg†	6000kg
2500kg	1750kg < 2000kg†	6000kg
2500kg	1750kg < 2000kg†	6000kg
2 x 1600kg	1000kg < 1600kg	6000kg
2 x 1600kg	1000kg < 1600kg	6000kg
2 x 1600kg	1000kg < 1600kg	6000kg
2 x 1600kg	1000kg < 1600kg	6000kg
2 x 1600kg	1000kg < 1600kg	6000kg

## Kon-Tiki single axle jacking points



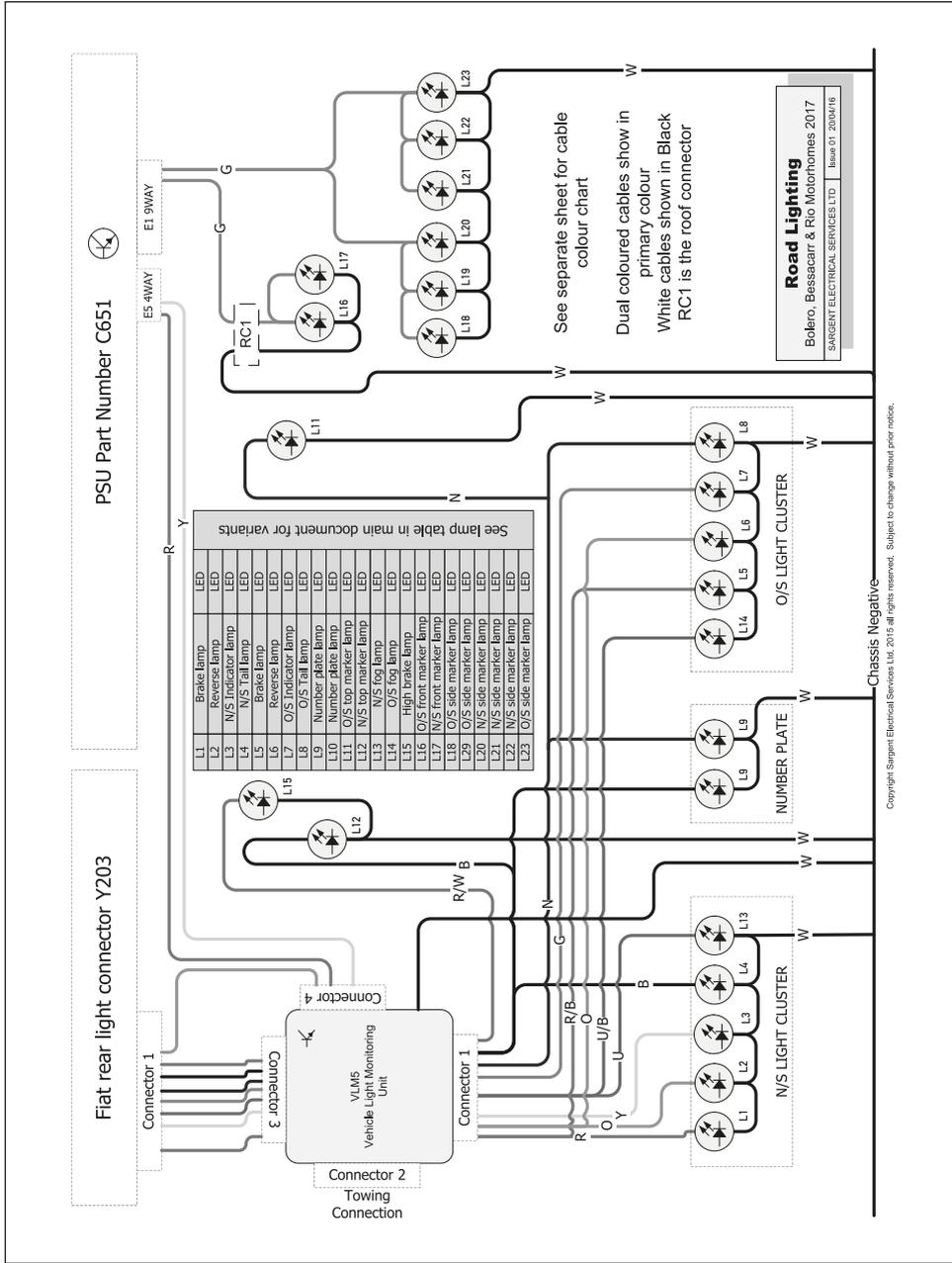
Jacking Points: ▲ For further details see the AL-KO handbook

## Kon-Tiki twin axle jacking points

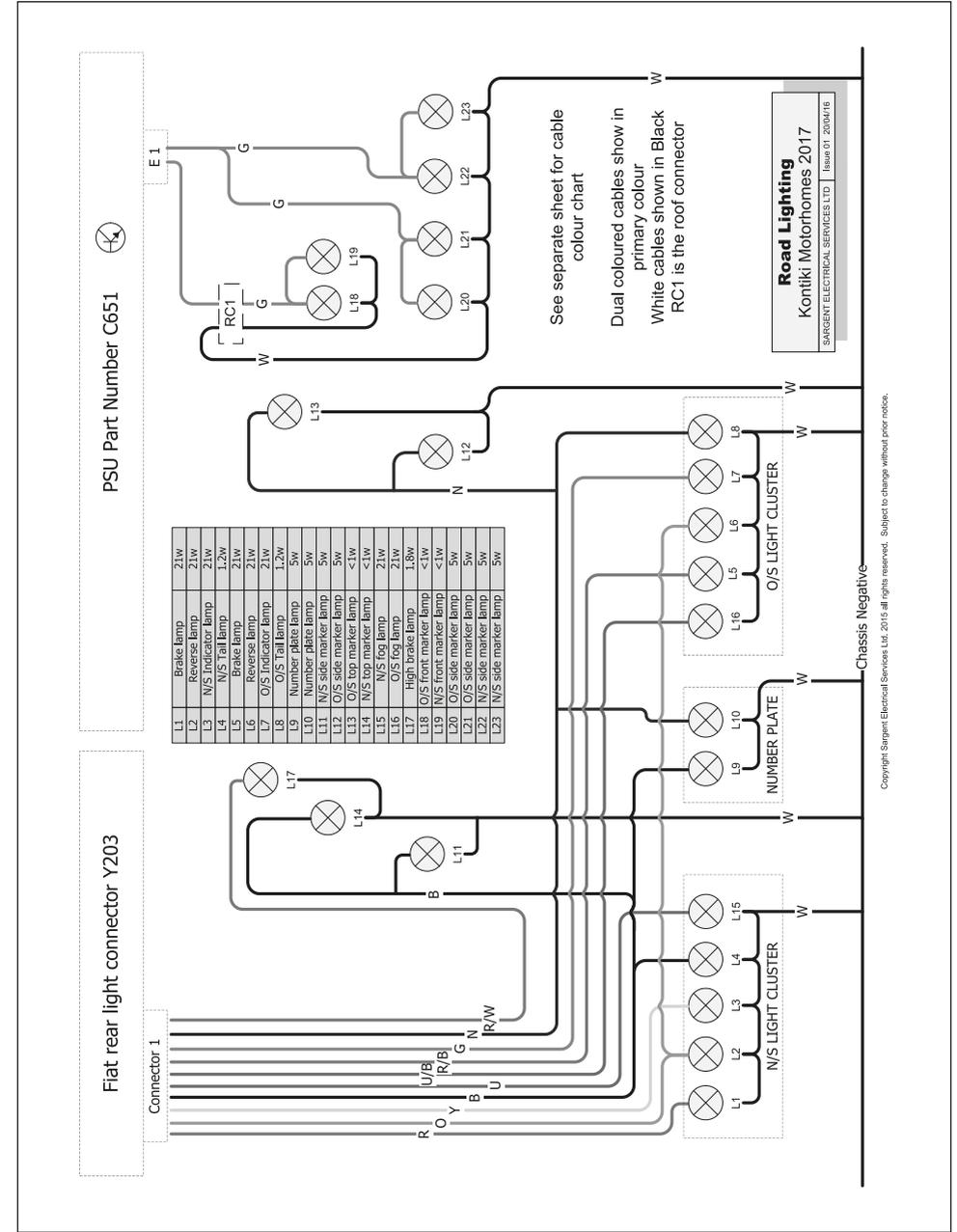


Jacking Points: ▲ For further details see the AL-KO handbook

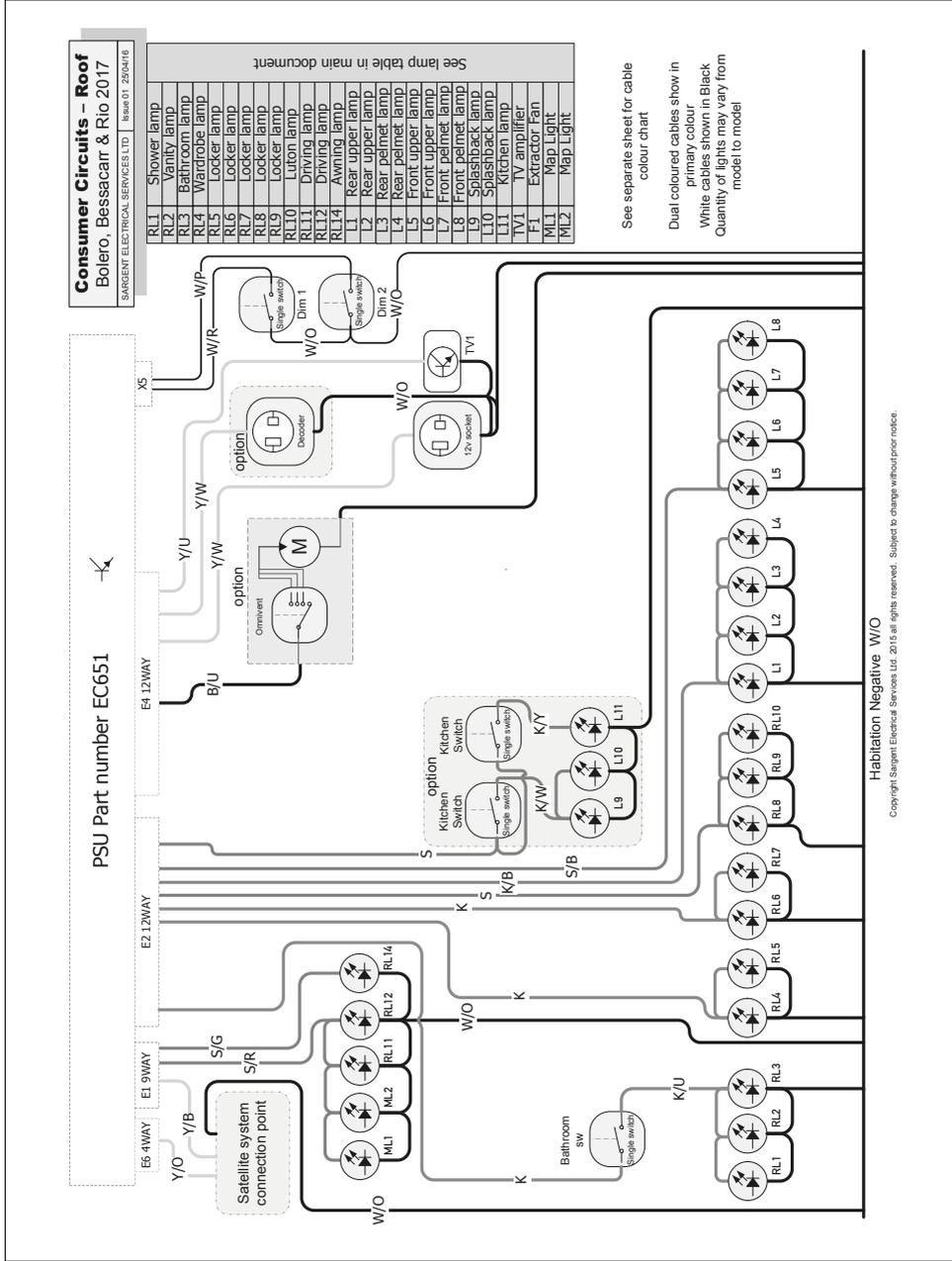
## Bolero, Bessacarr and Rio - Road lighting circuits



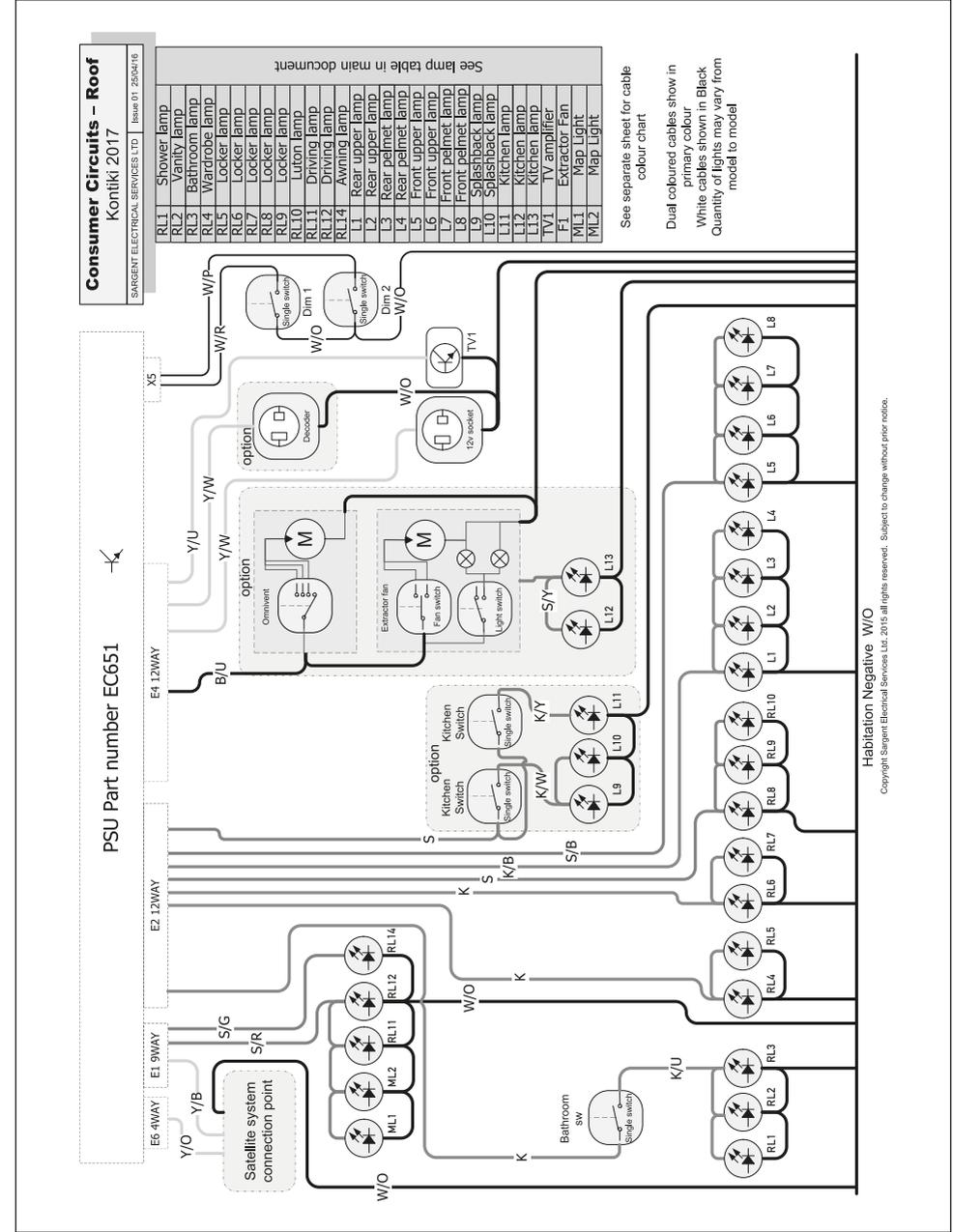
## Kon-Tiki - Road lighting circuits



## Bolero, Bessacarr and Rio Consumer Circuits - Roof



## Kon-tiki Consumer Circuits - Roof







## Cable Colour Chart

**Cable Colour Chart**  
Swift Group

SARGENT ELECTRICAL SERVICES LTD Issue 01 25/04/16

Example

**Y/U** Yellow cable with Blue stripe



**12v Cable Colours**

B	BLACK
N	BROWN
R	RED
O	ORANGE
Y	YELLOW
G	GREEN
U	BLUE
P	PURPLE
S	SLATE GREY
W	WHITE
K	PINK

**230v Cable Colours**

B	BLACK
N	BROWN
W	WHITE
O	ORANGE
Y	YELLOW
G	GREEN
U	BLUE

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## Road Lights

Application	Type of Wattage	Bulb Reference	Rio	Bessacarr	Bolero	Kon Tiki
Front marker lamp - Britax	LED	L98.00.12V & L98.01.12V	X	X	X	
Front marker lamp - Jokon	LED	13.5021.000				X
Side marker light - Hella	5W	W5W	X			X
Side marker light - Britax	LED	L99.01.12V		X	X	
Rear high level marker light - Britax	LED	L99.02.12V	X	X	X	
Rear high level marker light - Jokon	LED	13.0012.000				X
High level stop lamp - Hella	LED	2DA-008-136-017				X
High level stop lamp - Britax	2.3W	L102.00.L12V	X	X	X	
Number plate lamp - Hella	LED	C5W				X
Number plate lamp - Britax	LED	L104.00.L12V	X	X	X	
Rear lamp multi function cluster - Britax	LED	L79.00.12V(LH) & L79.01.12V (RH)	X	X	X	
Tail lamp - Hella	LED	2SA-008-405-021				X
Rear Stop lamp -Hella	21W	P21				X
Rear fog lamp -Hella	21W	P21				X
Reverse lamp -Hella	21W	P21				X
Indicator lamp -Hella	21W	P21				X

## Bulb chart

### Interior / Other

Application	Bulb Reference	Bulb Rating	Rio	Bessacarr	Bolero	Kon Tiki
Locker spotlight with dimmer control	LED	FEM1561	X	X	X	X
Downlights, chrome surround	LED	FEM1567	X	X	X	X
Downlights, 3 stud offset lense	LED	FEM1556	X	X	X	X
China locker base lamp, switched, recessed	LED	FEM1374	X	X	X	
China locker extractor mounted lamps	10W	GU4/MR11 Dichroic Bulb				X
Over locker/high level strip lamps	LED	FEM12114 (cut to length strip)	X	X	X	X
Illuminated panel backlighting	LED	FEM12114 (cut to length strip)	X	X	X	X
B-Pillar map reading lamps	LED	201598	X	X	X	X
Walkway low level lamps	LED	FEM0993	X	X	X	X
Wardrobe lamp	5W	G4 Halogen capsule bulb	X	X	X	X
Upper bed/luton lamp, switched, recessed	LED	FEM1374				
Upper bed/luton lamp, switched, surface mount	LED	FEM1373				X
Garage area lamp, switched, surface mount	LED	FEM1373		X		X
Awning lamp	LED	L101-00-L12V	X	X	X	X
Step well lamp	LED	Complete Stepwell light w/Swift logo		X	X	X

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

## Bulb Replacement

### RIO, BESSACARR AND BOLERO COACHBUILT MOTORHOMES, COMBINED, ROAD LIGHT BULB ACCESS

#### REAR LIGHT CLUSTERS (CONTAINING INDICATOR, TAIL / STOP, REVERSE AND FOG LAMPS)

- These multi-function lights are LED and have no user serviceable parts inside.
- Replacement clusters can be fitted in the following way:
- Remove three screws visible around the perimeter of the cluster
- Pull the cluster away from the rear panel of the tourer, taking care to not put excessive strain on the electrical connections behind the lamp
- Unplug the electrical connection from the rear of the lamp, by releasing the tab and lifting the connector upwards relative to the cluster
- Plug the connector back into the replacement lamp, position the lamp into the recess and replace the three fixing screws.

#### NUMBER PLATE LAMPS, LED

- These lamps are LED and have no user serviceable parts inside.
- Replacements should be undertaken by your dealer, as the lamps are sealed onto the mounting panel.

#### HIGH LEVEL BRAKE LAMP

- These lamps are LED and have no user serviceable parts inside.
- Replacements should be undertaken by your dealer, as the lamps are sealed onto the mounting panel.

### FRONT AND REAR UPPER MARKER / POSITION LAMPS

- These lamps are LED and have no user serviceable parts inside.
- Replacements should be undertaken by your dealer, as the lamps are sealed onto the mounting panel.

### SIDE MARKER / POSITION LAMPS

- These lamps are LED and have no user serviceable parts inside.
- Replacements should be undertaken by your dealer, as the lamps are sealed onto the mounting panel.

## Bulb Replacement

### KON TIKI ROAD LIGHT BULB ACCESS

#### REAR LIGHT CLUSTER:

To access the tail lamp, indicator lamp or low level brake lamps, the silver trim panel must first be removed. The trim panel is secured with a combination of plastic Velcro and stud fixings. To remove, apply pressure to the top corner and pull. Working downwards, release all the fixings

Below the trim panel is a black light carrier panel, housing the lamps. Release the three screws located close to the corners of each carrier, and then this too can be pulled directly away from the rear of the vehicle.

To replace the light carrier align the screw holes and replace fixing screws at each corner of carrier.

Align the silver trim piece and push firmly against rear of vehicle to ensure the plastic Velcro is fully engaged.

#### INDICATOR LAMPS - REPLACING

Bulb access is from rear of lamp.

Remove the trim panel and light carrier as described previously.

At the rear of the lamp, twist the bulb holder relative to the lamp body to release, and withdraw the bulb holder and bulb.

Bulbs are a bayonet fitting – apply slight pressure on bulb towards light fitting, and twist to release.

Re-position the bulb holder into the lamp and twist to lock in place.

Replace the light carrier and trim piece as described above.

#### REVERSE LAMPS - REPLACING

Bulb access is from rear of lamp.

Remove the trim panel and light carrier as described previously.

At the rear of the lamp, twist the bulb holder relative to the lamp body to release, and withdraw the bulb holder and bulb.

Bulbs are a bayonet fitting – apply slight

pressure on bulb towards light fitting, and twist to release.

Re-position the bulb holder into the lamp and twist to lock in place.

Replace the light carrier and trim piece as described above.

#### TAIL LAMPS - REPLACING

The tail lamp is a LED cluster and has no user serviceable parts inside.

Only replacement of the whole lamp is possible – first remove the Silver trim piece and light carrier as described previously.

Unplug the lamp from the harness, by squeezing the small tab on the side of the connector, and pulling the two halves away from each other.

Remove the reverse lamp as described above.

Remove the three screws securing tail lamp LED ring to the black carrier

Replace lamp ensuring correct screws are used to secure and reverse procedure to re-fit lamp, reverse lamp, light carrier and trim piece.

#### LOW LEVEL STOP LAMPS

Bulb access is from rear of lamp.

Remove the trim panel and light carrier as described above.

At the rear of the lamp, twist the bulb holder relative to the lamp body to release, and withdraw the bulb holder and bulb.

Bulbs are a bayonet fitting – apply slight pressure on bulb towards light fitting, and twist to release.

Re-position the bulb holder into the lamp and twist to lock in place

Replace the light carrier and trim piece as described above.

#### REAR FOG LIGHTS

Bulb access is from rear of lamp.

The light fitting can be accessed from underneath the rear of the vehicle.

At the rear of the lamp, twist the bulb holder relative to the lamp body to release, and withdraw the bulb holder and bulb.

## Bulb Replacement

### SIDE MARKER / POSITION LAMPS

Bulb access is from rear of lamp

If rear of lamp is visible from inside the vehicle:

Depending on the location, a small brown plastic cover may be present covering the connections to the lamp. Remove the screws in the cover to release and access the rear of the lamp.

The harness plugs directly into the bulb holder – twist the bulb holder relative to the lamp body to release, and withdraw the bulb holder and bulb.

Bulbs are push fit into bulb holder – pull bulb directly away from holder to release

Reverse the procedure to replace the bulb in the holder, holder in the lamp and the lamp onto the motorhome body. Replace plastic cover.

If rear of lamp is not visible from inside the vehicle:

Remove the 2 screws from the front of the light fitting, and withdraw the whole fitting from motorhome body.

The harness plugs directly into the bulb holder – twist the bulb holder relative to the lamp body to release, and withdraw the bulb holder and bulb.

Bulbs are push fit into bulb holder – pull bulb directly away from holder to release.

Reverse the procedure to replace the bulb in the holder, holder in the lamp and the lamp onto the motorhome body.

Please note: The visible rubber terminal cover is not fixed to the bulb holder, and it may be easier to grip the bulb holder with this removed.

Bulbs are a bayonet fitting – apply slight pressure on bulb towards light fitting, and twist to release.

Re-position the bulb holder into the lamp and twist to lock in place.

### FRONT OR REAR HIGH LEVEL MARKER / POSITION LAMPS (RED / CLEAR LENSE)

These lamps are LED and have no user serviceable parts inside.

Replacements should be undertaken by your dealer, as the lamps are sealed onto the mounting panel.

### HIGH LEVEL BRAKE LAMP

This lamp is single piece and has no user serviceable parts inside.

Remove the screw at both ends of lamp, and withdraw whole fitting away from rear panel of motorhome.

Please note : The screws which retain the lamp also retain the reverse camera housing.

Unplug the lamp from the harness, by squeezing the small tab on the side of the connector, and pulling the connector away from the lamp.

Re-connect the new lamp to harness, and secure with the original two screws.

Lamp retaining screws are fixed into a rubber sleeve with a threaded insert, often known as a rawlnut. If lamp has been removed and re-fitted several times the rubber sleeve may need replacing, these are available through your dealer.

### NUMBER PLATE LAMPS

Bulb access is from via the front lense of each lamp

Remove the two screws in the lense of the lamp, and remove

Lever the bulb out of retaining clips

Reverse the procedure to re-fit a new bulb and the light lense

