



Touring Caravans

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Touring Caravans

Charisma / Europa

Specification, Wiring Diagrams & Bulb Chart





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Specification

Charisma	Charisma 220	Charisma 230	Charisma 535
Europa	Europa 390	Europa 460	Europa 470
Berths	2	2	4
Axles	1	1	1
Internal Length (bed box height)	3.83m/12'7"	4.59m/15'1"	4.74m/15'7"
Overall Width	2.23m/7'4"	2.23m/7'4"	2.23m/7'4"
Overall Height (inc. TV Aerial)	2.61m/8'7"	2.61m/8'7"	2.61m/8'7"
Maximum Internal Headroom	1.95m/6'5"	1.95m/6'5"	1.95m/6'5"
Overall Length	5.52m/18'1"	6.28m/20'7"	6.43m/21'1"
Awning A/A dimension†	8.20m/26'11"	8.91m/29'3"	9.08m/29'9"
Mass in Running Order (inc. tolerance)	1054kg/20.7cwt	1146kg/22.6cwt	1167kg/23.0cwt
Maximum Technical Permissible Laden Mass (Lower limit)	1180kg/23.2cwt	1280kg/25.2cwt	1322kg/26.0cwt
Maximum Technical Permissible Laden Mass (Upper limit)	1200kg/23.6cwt	1350kg/26.6cwt	1350kg/26.6cwt
Total user Payload	126kg/2.5cwt	134kg/2.6cwt	155kg/3.1cwt
Personal Effects	116kg/2.3cwt	124kg/2.4cwt	145kg/2.9cwt
Options	10kg/0.2cwt	10kg/0.2cwt	10kg/0.2cwt
Tyre Size	175 R14C 99Q	175 R14C 99Q	175 R14C 99Q
Tyre pressure at Lower limit MTPLM	52 psi	58 psi	60 psi
Tyre pressure at Upper limit MTPLM	53 psi	62 psi	62 psi
Static Load on Coupling Head	100kg	100kg	100kg
Thermal Insulation Grade	THREE	THREE	THREE
Bed Sizes			
Front Double	208cm x 190cm/6'10" x 6'3"	208cm x 180cm/6'10" x 5'11"	208cm x 134cm/6'10" x 4'5"
or Front Nearside Single	190cm x 72cm/6'3" x 2'4"	190cm x 72cm/6'3" x 2'4"	
and Front Offside Single	190cm x 72cm/6'3" x 2'4"	180cm x 72cm/5'11" x 2'4"	
Rear Double			188cm x 137cm/6'2" x 4'6"
Rear Bunk			
Side Single (offside)			
Side Single (nearside)			
Side Bunk (offside)			
Side Bunk (nearside)			
Rear Fixed Lower Bunk			
Rear Fixed Mid Bunk			
Rear Fixed Upper Bunk			
Side Fixed Lower Bunk			
Side Fixed Mid Bunk			
Side Fixed Upper Bunk			

Weights: For the 2011 model year the method of calculating the Mass in Running Order (MRO) and user payload figures has changed in order to bring it in line with European Vehicle Directives.

Allowances for essential equipment (e.g. gas cylinders) previously allowed for in the user payload are now contained within the MRO. A provision for a leisure battery which used to be within the essential

equipment payload has now been included within the personal effects payload allowance.

Although the method of calculation has changed, the overall effect is that the amount of payload available to the customer has remained the same, it is just calculated in a different manner

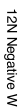
Bed Sizes : Please note that the front double bed sizes quoted are for seating configurations without chest of drawers. The front double bed width for a layout with a chest of drawers fitted will be reduced by 0.5m(1'8") from that stated.

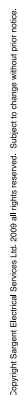


Charisma 545	Charisma 550	Charisma 560	Charisma 565	Charisma 570
Europa 545	Europa 550	Europa 520	Europa 565	Europa 570
4	4	4	6	6
1	1	1	1	1
5.60m/18'4"	5.60m/18'4"	5.44m/17'10"	5.83m/19'2"	5.50m/18'1"
2.29m/7'6"	2.29m/7'6"	2.23m/7'4"	2.23m/7'4"	2.23m/7'4"
2.61m/8'7"	2.61m/8'7"	2.61m/8'7"	2.61m/8'7"	2.61m/8'7"
1.95m/6'5"	1.95m/6'5"	1.95m/6'5"	1.95m/6'5"	1.95m/6'5"
7.29m/23'11"	7.29m/23'11"	7.12m/23'4"	7.52m/24'8"	7.19m/23'7"
9.87m/32'5"	9.87m/32'5"	9.75m/32'0"	10.15m/33'4"	9.82m/32'3"
1322kg/26.0cwt	1306kg/25.7cwt	1288kg/25.4cwt	1390kg/27.4cwt	1317kg/25.9cwt
1486kg/29.3cwt	1470kg/28.9cwt	1450kg/28.5cwt	1576kg/31.0cwt	1500kg/29.5cwt
1500kg/29.5cwt	1500kg/29.5cwt	1500kg/29.5cwt	1600kg/31.5cwt	1500kg/29.5cwt
164kg/3.2cwt	164kg/3.2cwt	162kg/3.2cwt	186kg/3.7cwt	183kg/3.6cwt
154kg/3.0cwt	154kg/3.0cwt	152kg/3.0cwt	176kg/3.5cwt	173kg/3.4cwt
10kg/0.2cwt	10kg/0.2cwt	10kg/0.2cwt	10kg/0.2cwt	10kg/0.2cwt
185 R14C 102Q	185 R14C 102Q	185 R14C 102Q	195/70 R15C 104R	185 R14C 102Q
62 psi	61 psi	60 psi	62 psi	63 psi
63 psi	63 psi	63 psi	63 psi	63 psi
100kg	100kg	100kg	100kg	100kg
THREE	THREE	THREE	THREE	THREE
213cm x 159cm/7'0" x 5'3"	213cm x 159cm/7'0" x 5'3"	208cm x 180cm/6'10" x 5'11"	208cm x 180cm/6'10" x 5'11"	208cm x 180cm/6'10" x 5'11"
		180cm x 72cm/5'11" x 2'4"	190cm x 72cm/6'3" x 2'4"	190cm x 72cm/6'3" x 2'4"
		190cm x 72cm/6'3" x 2'4"	180cm x 72m/5'11" x 2'4"	180cm x 72cm/5'11" x 2'4"
190cm x 137cm/6'3" x 4'6"	189cm x 137cm/6'2" x 4'6"			
		180cm x 63cm/5'11" x 2'1"		
			180cm x 67cm/5'11" x 2'2"	180cm x 63cm/5'11" x 2'1"
		176cm x 59cm/5'9" x 1'11"		
			176cm x 59cm/5'9" x 1'11"	176cm x 59cm/5'9" x 1'11"
				180cm x 62cm/5'11" x 2'1"
				183cm x 62cm/6'0" x 2'1"
			183cm x 58cm/6'0" x 1'11"	
			183cm x 58cm/6'0" x 1'11"	

Awning sizes: Due to varying awning designs and sizes the awning sizes given are approximate only. Specific awning sizes must be confirmed by your dealer or awning manufacturer prior to purchase.

Charisma/Europa - Road lighting





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See separate sheet for cable colour chart

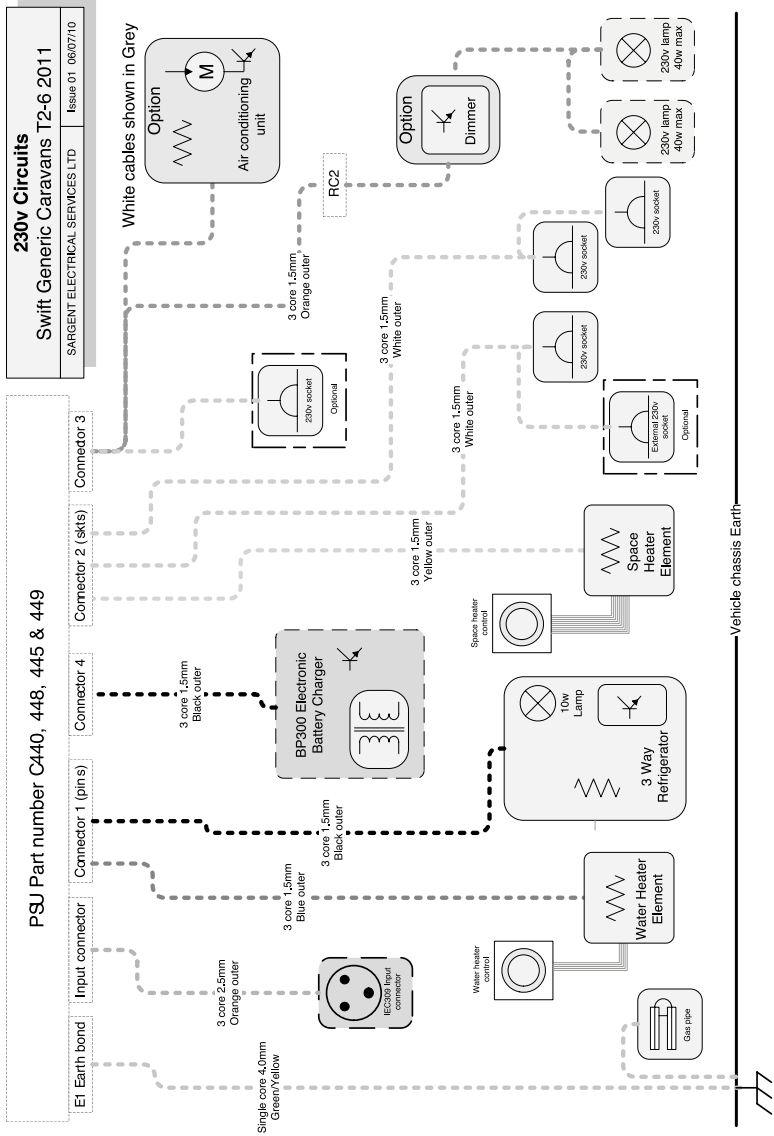
Dual coloured cables show in primary colour

White cables shown in Black

12v socket positions dependant on layout

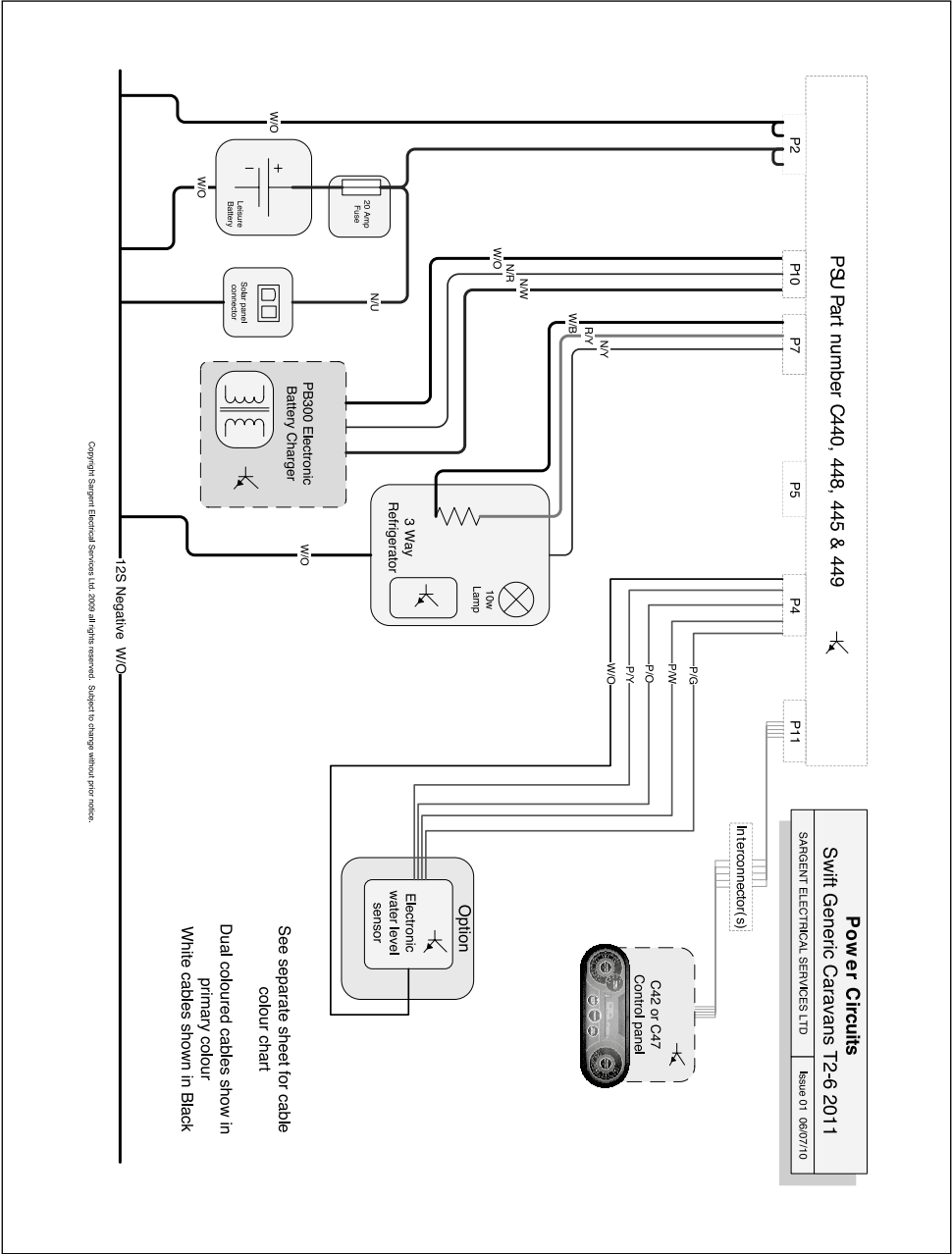


Charisma/Europa - 230V circuits



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Charisma/Europa - Power circuits



Charisma/Europa - 13 pin socket

ISO 11446 Circuits

Swift Group Caravans (where applicable)

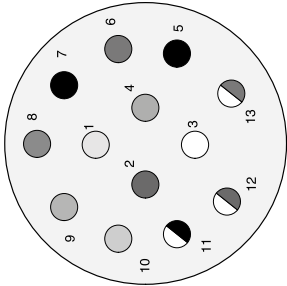
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Issue 01 06/07/10

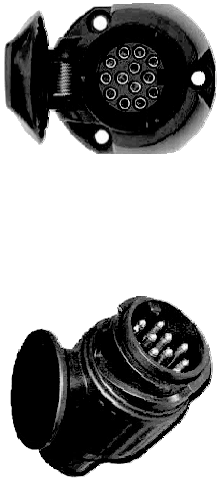
It is possible to get adaptors that convert two sockets on the towbar to a single 13 pin ISO socket, and vice versa.

Connection lead from 12N 7 pin socket plus 12S 7 pin socket to 13pin Euro Socket. (Converts a vehicle with two 7 pin sockets to a caravan with a 13 pin plug)

Please be aware that some car and adaptor manufacturers don't provide the fridge power connections



11446 Plug Connector viewed from cable entry on plug



Pin No	Core Colour	Core Size	Function
1	Yellow	1.5	Left Hand Indicator Light
2	Blue	1.5	Rear Fog Warning Light(s)
3	White	2.5	Earth for pins 1 - 8
4	Green	1.5	Right Hand Indicator Light
5	Brown	1.5	Right Hand Tail Light
6	Red	1.5	Brake Lights
7	Black	1.5	Left Hand Tail Light
8	Pink	1.5	Reverse Light(s)
9	Orange	2.5	Car + ve
10	Slate (Grey)	2.5	Fridge +ve
11	White/Black	2.5	Earth for pin 10
12	White/Blue	1.5	Not Yet Allocated
13	White/Red	2.5	Earth for pin 9

Wiring Diagrams

Charisma/Europa - Cable colours



Example

Y/U

Yellow cable with Blue stripe

Cable Colour Chart

Swift range 2011

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Issue 06/07/10

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

Bulb Chart

Exterior Lights	Bulb type	Bulb rating
Front marker lights	W5W	12v 5W
Side marker	C5W	12v 5W
Reversing light	P21	12v 21W
Rear indicator light	P21	12v 21W
Brake / tail light	P21/5W	12v 21W/5W
Fog light	P21	12v 21W
Number plate light	C5W	12v 5W
High level brake light	2DA 343 800-007	LED
Interior / Other Lights	Bulb type	Bulb rating
Awning lights	P21W	12v 20W
Spot / reading lights	GU4/MR11 Dichroic	GU4 12v 10W
Spot / reading lights (LED)	FEM0440 complete lamp	12v LED
Down lighters	Halogen capsule	G4 12v 10W
'Eyelite' bunk reading light	T10 (T3 1/4) wedge	12v 5W
Ceiling lights, round, single bulb	Halogen capsule	G4 12v 20W
Ceiling lights, round, twin bulb	Halogen capsule	G4 12v 10W
Ceiling lights, round, small white	Halogen capsule	G4 12v 10W
Kitchen light	Fluorescent 300mm	12v 8W
Kitchen light (LED)	FEM complete lamp	12v
Mains lights	Small edison screw candle	230v 40W

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

Bulb Replacement

CHARISMA/EUROPA ROAD LIGHT BULB ACCESS

STOP / TAIL / INDICATOR AND REVERSE LAMPS

Bulb access is from front / via lens of each lamp.

Remove 2x screws from each light lens and withdraw lens.

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

Reverse procedure to re-fit bulb and lens.

Take care when replacing stop/tail lamp bulb, that orientation of bulb is correct – to check, brake light operation should be brighter than tail lamp operation.

REAR CENTRAL FOG LIGHT

Bulb access is from front / via lens of lamp.

Remove 2x screws from light lens and withdraw lens.

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

Reverse procedure to re-fit bulb and lens.

UPPER REAR SIDE POSITION LAMPS (RED / CLEAR LENS)

Lens is removed from base to access bulb.

Carefully insert small flat bladed screwdriver into recess in lower edge of lamp base. Apply pressure to release locking bar.

Lift lens upwards and away from lamp base, lower edge first.

Lever bulb out of retaining clips.

Reverse procedure to re-fit bulb and lens.

HIGH LEVEL BRAKE LAMP

Light is one piece design with no internally replaceable parts.

Remove 2x screw cover caps from front face of lamp using small flat bladed screwdriver.

Remove screws at either end of lamp, and withdraw whole fitting away from rear panel of caravan.

Disconnect lamp from harness.

Re-connect new lamp to harness, and secure lamp to caravan body with 2x screws.

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

NUMBER PLATE LAMPS

Bulb access is from the front / via lens of each lamp.

Remove the two screws in the lens of the lamp.

Lever the bulb out of retaining clips.

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

FRONT MARKER / POSITION LAMPS

Bulb access is from rear of lamp.

Remove 2x screws from light fitting, and withdraw whole fitting from motorhome body.

Harness plugs into bulb holder – Twist bulb holder relative to lamp body to release bulb holder from lamp body.

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

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

