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# Charisma / Europa

Specification, Wiring Diagrams & Bulb Chart



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# Specifications

Charisma	Charisma 220	Charisma 230	Charisma 535	Charisma 560	Charisma 565	Charisma 555
Europa	Europa 390	Europa 460	Europa 470	Europa 520	Europa 565	Europa 495
Berths	2	2	4	4	6	4
Axles	1	1	1	1	1	1
Internal Length (bed box height)	3.83m/12'7"	4.59m/15'1"	4.74m/15'7"	5.44m/17'10"	5.50m/18'1"	5.50m/18'1"
Overall Width	2.23m/7'4"	2.23m/7'4"	2.23m/7'4"	2.23m/7'4"	2.23m/7'4"	2.29m/7'6"
Overall Height (inc. TV Aerial)	2.61m/8'7"	2.61m/8'7"	2.61m/8'7"	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"	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"	7.12m/23'4"	7.19m/23'7"	7.19m/23'7"
Mass in Running Order (inc. tolerance)	1026kg/20.2cwt	1118kg/22.0cwt	1127kg/22.2cwt	1250kg/24.6cwt	1258kg/24.8cwt	1269kg/25.0cwt
Essential Habitation Equipment Payload	68kg/1.3cwt	68kg/1.3cwt	68kg/1.3cwt	68kg/1.3cwt	68kg/1.3cwt	68kg/1.3cwt
Personal Effects Payload	96kg/1.9cwt	104kg/2.0cwt	125kg/2.5cwt	132kg/2.6cwt	153kg/3.0cwt	133kg/2.6cwt
Optional Equipment Payload	10kg/0.2cwt	10kg/0.2cwt	10kg/0.2cwt	10kg/0.2cwt	10kg/0.2cwt	10kg/0.2cwt
Total user Payload	174kg/3.4cwt	182kg/3.5cwt	203kg/4.0cwt	210kg/4.1cwt	231kg/4.5cwt	211kg/4.1cwt
Maximum Technical Permissible Laden Mass (DECLARED)	1200kg/23.6cwt	1300kg/25.6cwt	1330kg/26.2cwt	1460kg/28.7cwt	1489kg/29.3cwt	1480kg/29.1cwt
Maximum Technical Permissible Laden Mass (POSSIBLE)	1350kg/26.6cwt	1350kg/26.6cwt	1350kg/26.6cwt	1500kg/29.5cwt	1500kg/29.5cwt	1500kg/29.5cwt
Awning A/A dimension†	8.20m/26'11"	8.91m/29'3"	9.08m/29'9"	9.75m/32'0"	9.82m/32'3"	9.82m/32'3"
Tyre Size	175 R14 99	175 R14 99	175 R14 99	185 R14 102	185 R14 102	185 R14 102
Tyre pressure at DECLARED MTPLM	55 psi	60 psi	62 psi	62 psi	65 psi	63 psi
Tyre pressure at POSSIBLE MTPLM	63 psi	63 psi	63 psi	65 psi	65 psi	65 psi
Static Load on Coupling Head	100kg	100kg	100kg	100kg	100kg	100kg
Thermal Insulation Grade	TWO	TWO	TWO	TWO	TWO	TWO
<b>Bed Sizes</b>						
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"	208cm x 180cm/6'10" x 5'11"	208cm x 180cm/6'10" x 5'11"	213cm x 159cm/7'0" x 5'3"
or Front Nearside Single	190cm x 72cm/6'3" x 2'4"	190cm x 72cm/6'3" x 2'4"		180cm x 72cm/5'11" x 2'4"	180cm x 72cm/5'11" x 2'4"	167cm x 72cm/5'6" x 2'4"
and Front Offside Single	190cm x 72cm/6'3" x 2'4"	180cm x 72cm/5'11" x 2'4"		190cm x 72cm/6'3" x 2'4"	190cm x 72cm/6'3" x 2'4"	159cm x 72cm/5'3" x 2'4"
Rear Double			188cm x 137cm/6'2" x 4'6"			192cm x 138cm/6'4" x 4'6"
Side Single (offside)				180cm x 70cm/5'11" x 2'4"		
Side Single (nearside)					170cm x 75cm/5'7" x 2'6"	
Side Bunk (offside)				178cm x 59cm/5'10" x 1'11"		
Side Bunk (nearside)						
Rear Fixed Lower Bunk						
Rear Fixed Upper Bunk						
Side Fixed Lower Bunk					183cm x 57cm/6'0" x 1'10"	
Side Fixed Mid Bunk					183cm x 57cm/6'0" x 1'10"	
Side Fixed Upper Bunk					183cm x 57cm/6'0" x 1'10"	

Bed sizes: Please note that double bed sizes are quoted with wrap round seating.

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

# Specifications

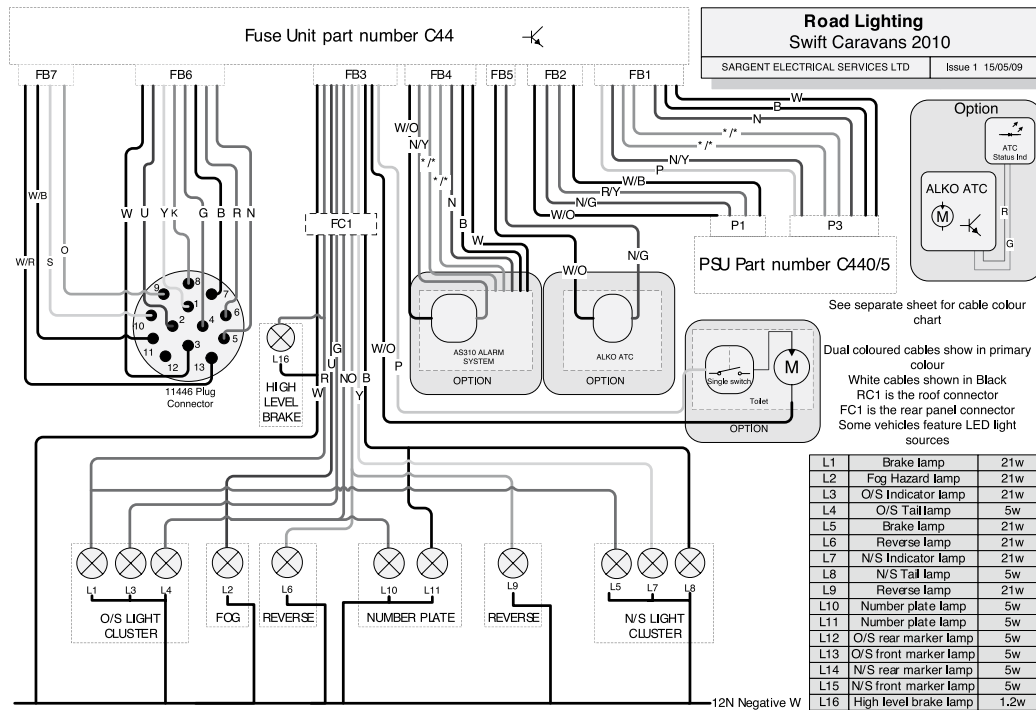
<b>Charisma</b>	<b>Charisma 540</b>	<b>Charisma 545</b>	<b>Charisma 550</b>
<b>Europa</b>	<b>Europa 530</b>	<b>Europa 545</b>	<b>Europa 550</b>
Berths	5	4	4
Axles	1	1	1
Internal Length (bed box height)	5.60m/18'4"	5.60m/18'4"	5.60m/18'4"
Overall Width	2.23m/7'4"	2.29m/7'6"	2.29m/7'6"
Overall Height (inc. 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	7.29m/23'11"	7.29m/23'11"	7.29m/23'11"
Mass in Running Order (inc. tolerance)	1263kg/24.9cwt	1280kg/25.2cwt	1283kg/25.3cwt
Essential Habitation Equipment Payload	68kg/1.3cwt	68kg/1.3cwt	68kg/1.3cwt
Personal Effects Payload	144kg/2.8cwt	134kg/2.6cwt	134kg/2.6cwt
Optional Equipment Payload	10kg/0.2cwt	10kg/0.2cwt	10kg/0.2cwt
Total user Payload	222kg/4.3cwt	212kg/4.1cwt	212kg/4.1cwt
Maximum Technical Permissible Laden Mass (DECLARED)	1485kg/29.2cwt	1492kg/29.4cwt	1495kg/29.4cwt
Maximum Technical Permissible Laden Mass (POSSIBLE)	1500kg/29.5cwt	1500kg/29.5cwt	1500kg/29.5cwt
Awning A/A dimension†	9.87m/32'5"	9.87m/32'5"	9.87m/32'5"
Tyre Size	185 R14 102	185 R14 102	185 R14 102
Tyre pressure at DECLARED MTPLM	63 psi	63 psi	63 psi
Tyre pressure at POSSIBLE MTPLM	65 psi	65 psi	65 psi
Static Load on Coupling Head	100kg	100kg	100kg
Thermal Insulation Grade	TWO	TWO	TWO
<b>Bed Sizes</b>			
Front Double	208cm x 180cm/6'10" x 5'11"	213cm x 159cm/7'0" x 5'3"	213cm x 159cm/7'0" x 5'3"
or Front Nearside Single	190cm x 72cm/6'3" x 2'4"		167cm x 72cm/5'6" x 2'4"
and Front Offside Single	180cm x 72cm/5'11" x 2'4"		159cm x 72cm/5'3" x 2'4"
Rear Double	208cm x 129cm/6'10" x 4'3"	189cm x 137cm/6'2" x 4'6"	189cm x 137cm/6'2" x 4'6"
Rear Bunk	190cm x 56cm/6'3" x 1'10"		
Side Single (offside)			
Side Single (nearside)			
Side Bunk (offside)			
Side Bunk (nearside)			

Bed sizes: Please note that double bed sizes are quoted with wrap round seating.

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

# Wiring diagrams

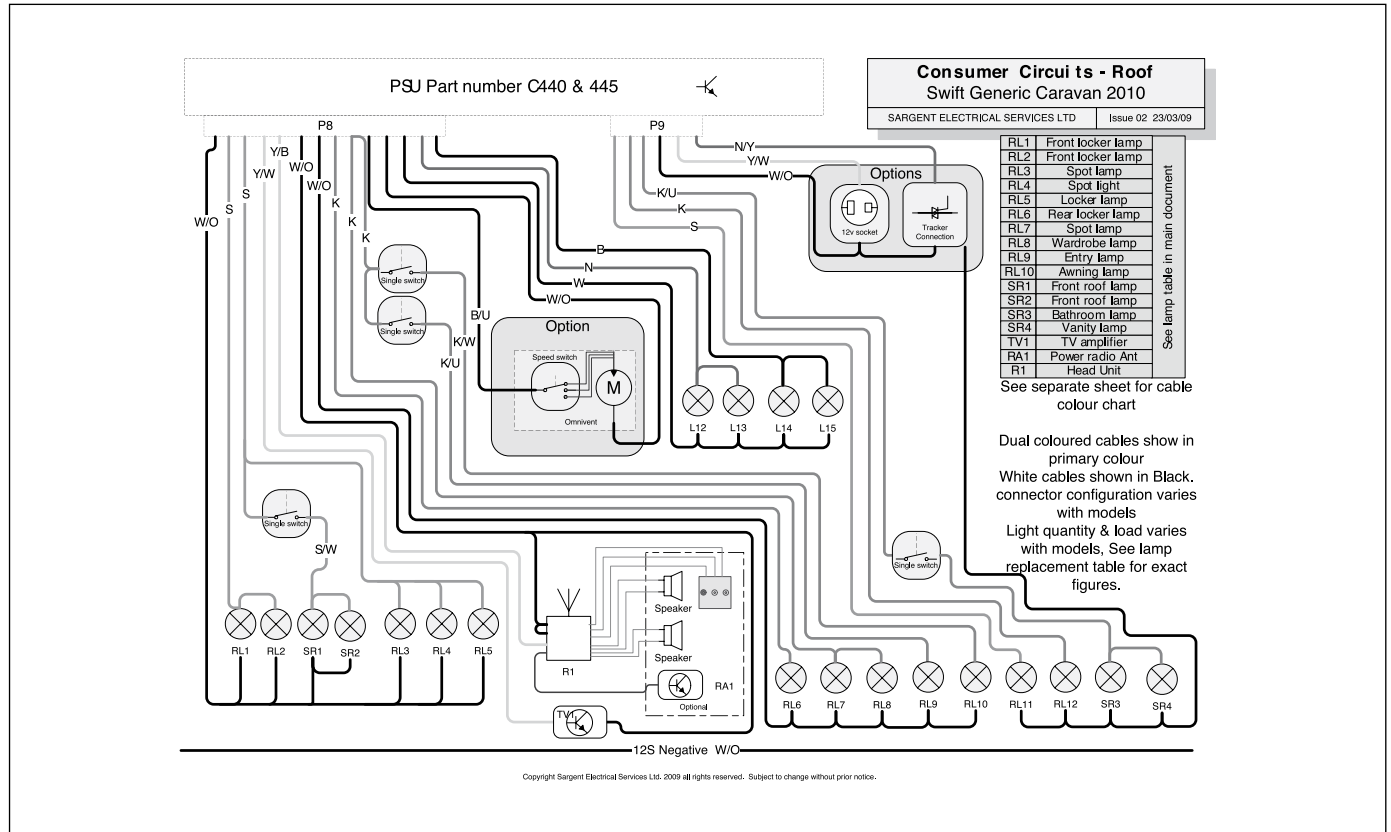
## Charisma/Europa range - Road lighting



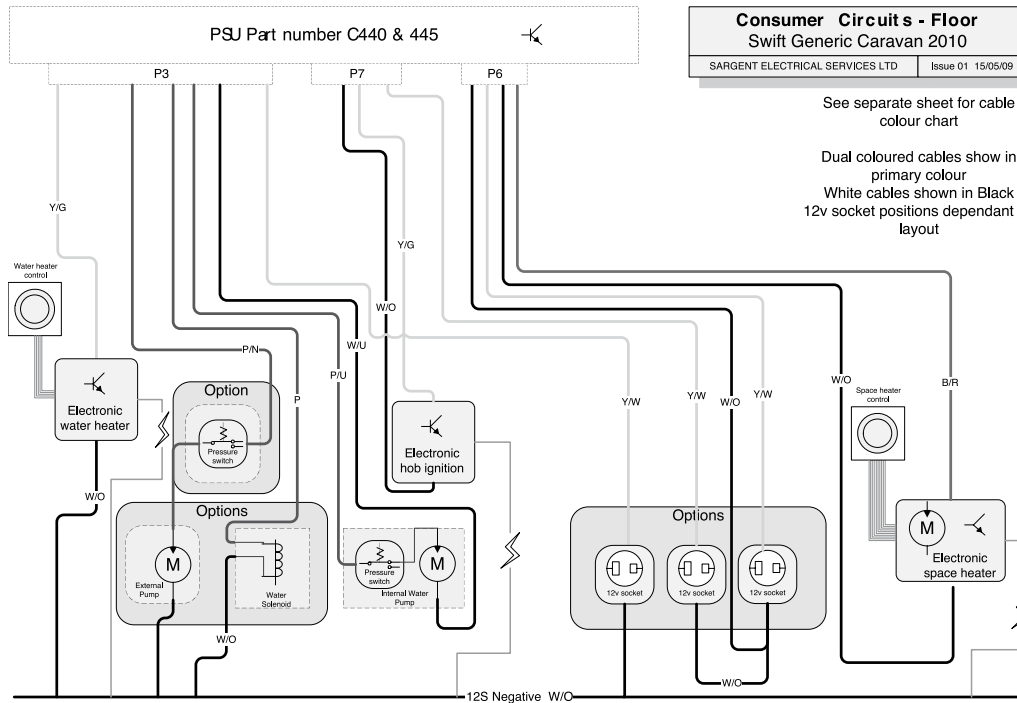
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# Wiring diagrams

## Charisma/Europa range - Roof circuits



## Charisma/Europa range - Floor circuits



**Consumer Circuits - Floor**  
**Swift Generic Caravan 2010**  
 SARGENT ELECTRICAL SERVICES LTD Issue 01 15/05/09

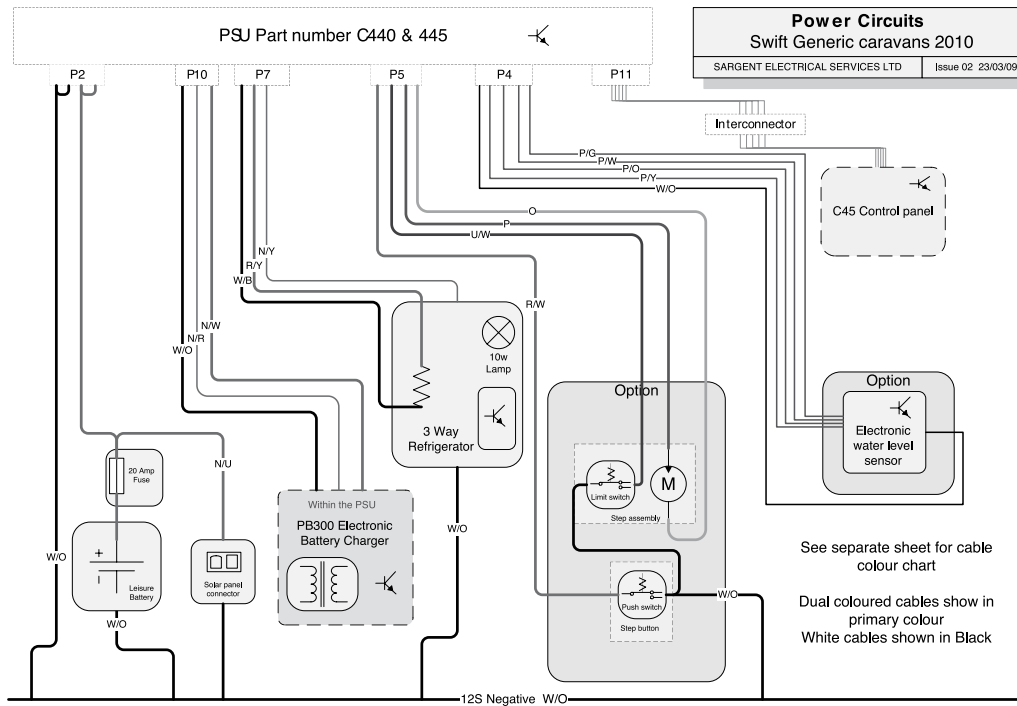
See separate sheet for cable colour chart

Dual coloured cables show in primary colour  
 White cables shown in Black  
 12v socket positions dependent on layout

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## Charisma/Europa range - Power circuits

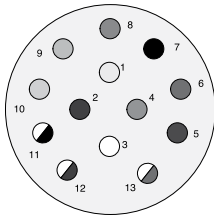


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# Wiring diagrams

## Charisma/Europa range - 13 pin socket

ISO 11446 Circuits	
Swift Group Caravans (where applicable)	
SARGENT ELECTRICAL SERVICES LTD	Issue 02 28/02/08



11446 Plug Connector viewed from cable entry on plug



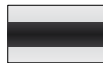
It is possible to get adaptors that convert two sockets on the towbar to a single 13 pin ISO socket, and vice versa.

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

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

## Charisma/Europa range - Cable colours



**Y/U**

Example

Yellow cable with Blue stripe

### Cable Colour Chart Swift range 2010

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Issue 10/01/09

### 12v Cable Colours

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

### 230v Cable Colours

<b>B</b>	BLACK
<b>N</b>	BROWN
<b>W</b>	WHITE
<b>O</b>	ORANGE
<b>Y</b>	YELLOW
<b>G</b>	GREEN
<b>U</b>	BLUE

# Bulb Chart

<b>Exterior Lights</b>	<b>Bulb type</b>	<b>Bulb rating</b>
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
<b>Interior / Other Lights</b>	<b>Bulb type</b>	<b>Bulb rating</b>
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

### **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 barb.

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.



