

Clarke®

HALOGEN LIGHTS



MODEL Nos:

CHL100D
CHL110D
CHL120D
CHL150D
CHL151D
CHL500D
CHL500SD
CHL500TD
CHL1000TD

ASSEMBLY & OPERATING INSTRUCTIONS



0405

Thank you for purchasing this Clarke Halogen Light.

Before attempting to operate the unit please read this instruction manual and carefully follow all directions given. By doing so you will ensure safe operation of the unit and you can also look forward to long and trouble free service from your Clarke Halogen Light.

GUARANTEE

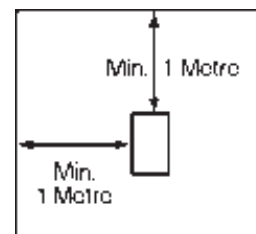
This CLARKE product is guaranteed against faults in manufacture for 12 months from purchase date (except bulb). Keep your receipt as proof of purchase.

This guarantee is invalid if the product has been found to have been abused in any way, or not used for the purpose for which it was intended, or to have been tampered with in any way. The reason for return must be clearly stated.

This guarantee does not affect your statutory rights.

SAFETY PRECAUTIONS

1. Before moving your Halogen Light or replacing a broken part, always ensure that the power supply is disconnected at the mains.
2. This unit must not be immersed in water.
3. Do not install this unit within 2 metres of combustible material. The lamp housing can exceed temperatures of 110°C (230°F).
4. Do not move your Halogen Light or replace bulbs or broken parts with wet hands, or when standing on a wet or damp surface or in water. Always ensure the power supply is disconnected at the mains.
5. The external part of the light head develops high operating temperatures. To avoid possible injury do not touch. Wait until the power supply has been disconnected and the unit cooled down.
6. Do not use this lamp in hazardous locations, such as flammable or explosive environments.
7. Do not sit directly in front of this unit, as the high operating temperatures can burn the skin.
8. Do not look directly into the lamp when switched on as this can damage the eyes.
9. When using tripod legs they should be suitably weighted to prevent the unit from toppling over, causing damage to individuals or property.
10. If used with an extension cable always ensure that the extension cable is fully unwound.
11. We recommend that a Residual Current Device (RCD) is used in conjunction with your CLARKE Halogen Light.
12. Do not use this unit if it has a broken lens, casing or damaged supply cable.
13. Always ensure that the front and the top of the halogen lamp is at least 1 metre away from any flat or fixed surface (as shown).



ELECTRICAL CONNECTIONS

First check that the voltage marked on the product corresponds with your supply voltage.

WARNING! THIS APPLIANCE MUST BE EARTHED.

230 Volt Models

Connect the mains lead to a 230 volt (50Hz) domestic electrical supply via a standard 13 amp BS 1363 plug fitted with a 13 amp fuse, or a suitably fused isolator switch.

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

Green & Yellow	-	Earth
Blue	-	Neutral
Brown	-	Live

As the colours of the flexible cord of this appliance may not correspond with the coloured markings identifying terminals in your plug proceed as follows:

- Connect GREEN & YELLOW cord to plug terminal marked with a letter 'E' or Earth symbol '⏏' or coloured GREEN or GREEN & YELLOW.
- Connect BROWN cord to plug terminal marked 'L' or coloured RED.
- Connect BLUE cord to plug terminal marked 'N' or coloured BLACK.

If this appliance is fitted with a plug which is moulded onto the electric cable (i.e. non-rewirable) please note:

1. The plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is subsequently inserted into a socket outlet.
2. Never use the plug without the fuse cover fitted.
3. Should you wish to replace a detachable fuse carrier, ensure that the correct replacement is used (as indicated by marking or colour code).
4. Replacement fuse covers can be obtained from your local dealer or most electrical stockists.
5. The fuse in the plug must be replaced with one of the same rating (13 amps) and this replacement must be ASTA approved to BS1362.

This product should be connected to the mains via a Residual Current Device (RCD)

110 Volt Models

These units include a fitted Industrial plug to BS4343, and a yellow artic cable for use on a suitably protected 110 volt supply.

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

Green & Yellow	-	Earth
Blue	-	Neutral
Brown	-	Live

WARNING:

**IF IN ANY DOUBT ALWAYS CONSULT A QUALIFIED ELECTRICIAN.
NB: IF THE POWER SUPPLY TO THE LAMP IS TO BE RUN UNDERGROUND, INSTALLATION MUST BE IN ACCORDANCE WITH I.E.E REGULATIONS AND WORK MUST BE CARRIED OUT BY A FULLY QUALIFIED ELECTRICIAN.**

ASSEMBLY AND MOUNTING INSTRUCTIONS

Installing the Bulb & Grille

The bulb is stored within the lamp housing as illustrated in Fig. 1.

1. Remove the wing nut securing the handle where fitted, and then the screw securing the lamp housing cover, arrowed in Fig.1, and install the halogen bulb as follows:

Holding the bulb with a soft cloth, carefully locate one end into the ceramic mounting. Whilst pushing the end of the bulb against the metal pin, gently slide the other end of the bulb into position in the other ceramic mounting until it is secure. Do not use force when installing the bulb.

NOTE: DO NOT TOUCH THE BULB WITH FINGERS, this will cause damage. If it has been touched, wipe it carefully with a soft cloth dampened with methylated spirits.



Fig. 1.

2. To install the grill, Gently prise out the glass - ease one side of the frame sideways. Slide the grill into place ensuring it locates correctly into its slots - one at each corner, then replace the glass. Finally screw the lamp housing cover back firmly, ensuring the gasket is correctly seated, then reattach the handle where fitted.

MODELS 150D & 500D ONLY

These models are designed for wall or other independant mounting and may be used with PIR or other security systems. They are not supplied with electric cable.

The cable used should be suitable for outdoor use, 3-core with a conductor size of at least 1.5mm², manufactured to BS6500.

Wiring up these models should be carried out as follows:

1. Remove the cable gland and rubber washer from the cable inlet and retain. Fig. 2 shows the gland and washer removed from model 150D.
2. Remove the Terminal Box cover by unscrewing the four securing screws.
3. Remove the screws securing the cable clamp.
4. Thread the cable gland, followed by the rubber washer over the cable, then thread the cable through the cable inlet.
5. Carefully strip the outer insulation from the conductors for a distance of approx. 30mm taking care not to damage the conductor insulation.

Strip the conductor insulation, for a distance of approx. 8mm and twist the strands together, on each conductor

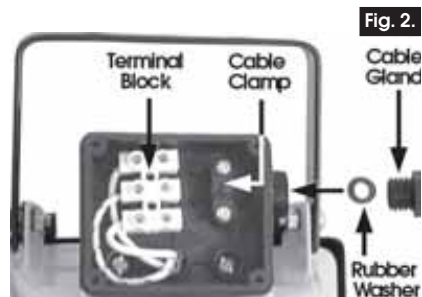



Fig. 2.



Fig. 3.

- Identify the terminals by observing the embossed symbols on the base of the junction box, and indicated in Fig.4.

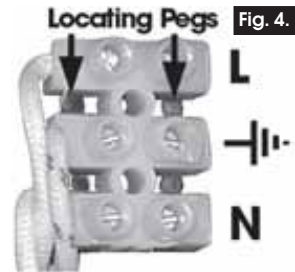
These are L - Live, N - Neutral and  earth.
Connect the conductors accordingly.

NOTE: The cable path for the 500SD is shown by the dotted line in Fig. 3.

- Replace the cable clamp ensuring it firmly clamps the OUTER insulation, or sheathing, and NOT the conductors.
- Push the rubber washer into the cable inlet and screw in the cable gland firmly. Do not overtighten as this could strip the plastic threads.
- Before replacing the cover, ensure the terminal block is located snugly on the locating pegs, illustrated in Figs. 3 and 4.

The cover should be firmly secured, but again, do not overtighten the screws.

The lamp may be mounted to a convenient surface using the holes provided in the mounting bracket, and then tilted to the desired angle. Tighten the mounting bracket pivot screws (B, Fig.10) to secure.



MODELS 100D, 151D & 500SD

These models are mounted on a carry frame, which is assembled as follows:

- Remove the fixing screw (inset Fig.5) from the base of the carry frame, then insert the tubular base into the frame attachment, as indicated in Fig. 5.
- Line up the holes in the two sections of the frame then replace and tighten the fixing screw.



ALL OTHER MODELS

All other models are tripod mounted, either single lamp or twin.

The Tripod

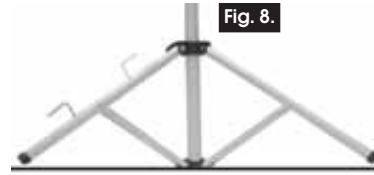
The tripod is folded so that the legs lie flat along the column.

To erect the stand, pull the legs away from the column by prising them from within the support linkage, taking care not to trap your fingers. Pull the legs in the direction of the arrows shown in Fig. 6.

The hub will slide down the legs and the legs will spread.

NOTE: It may be necessary to slacken the Leg Locking Knob in order for the hub to move. Remember to retighten when the legs are spread correctly.





IMPORTANT: Ensure the legs are spread wide enough so that the centre column is clear of the ground as shown in Fig 7., otherwise the centre column will act as a fourth leg and the stand will therefore be unstable. Fig. 8 illustrates the stand in an unstable condition.

The tripod is telescopic up to a max. height of 2M (excluding the height of the lamps). The two extension pieces are locked by the Column Locking Collars shown in Fig.6.

To extend the column, grasp the column with one hand and turn the respective locking collar anticlockwise to unlock. Pull out the extension tube to the desired height and relock by turning the collar clockwise.

NOTE:

In the interests of safety, it is recommended that the tripod legs be secured by placing sand bags or similar weights over each leg, if this unit is used:

- a) *On uneven or rocky surfaces.*
- b) *With a long extension cable.*
- c) *In windy conditions; or when any of the extension tubes are extended beyond the normal closed position.*

The Lamps

Lamps on the single lamp models are simply attached to the top of the column using the single securing screw provided in the centre hole of the lamps' mounting bracket.

The twin lamp models should be assembled as follows:

1. Remove the support bar securing screw from the top of the tripod column (see Fig. 6).
2. Rest the lamp support bar on the bracket on top of the column as shown in Fig.9.
3. With the two lamps being supported (eg, resting on a workbench or similar, in order to take their weight), thread the securing screw through the hole in the cable junction box fixing bracket, as shown in Fig.9, through the hole in the lamp support bar, and screw it into the threaded hole on top of the column. Ensure it is tight.
4. Attach the lamps to the support bar using the single screw provided and shown at 'A', Fig.10.

NOTE: The lamp may be swivelled by slackening the screw 'A' Fig.10, or tilted by slackening the screw 'B'. Ensure the screws are tightened when adjustments are completed.



This illustration is of the 230V version. The junction box of the 110V version differs slightly but method of assembly is the same.



TROUBLESHOOTING CHART

<i>SYMPTOM</i>	<i>POSSIBLE CAUSE</i>	<i>CORRECTIVE ACTION</i>
Lamps will not operate	<ol style="list-style-type: none"> 1. Bulb broken. 2. Poor contact between lamp and socket. 3. Improper wiring. 4. Incorrect voltage: voltage at fixture too high/low 	<ol style="list-style-type: none"> 1. Replace bulb. 2. Check to see if lamp is securely installed into socket. 3. Have unit checked by a qualified electrician. 4. Have supply checked by a qualified electrician

SPECIFICATIONS

<i>MODEL NO.</i>	<i>SUPPLY REQUIRED</i>	<i>OUTPUT PER LAMP</i>
CHL500D	230V 50HZ	500W
CHL500SD	230V 50HZ	500W
CHL500TD	230V 50HZ	500W
CHL1000TD	230V 50HZ	500W
CHL150D	230V 50HZ	150W
CHL151D	230V 50HZ	150W
CHL100D	110V 50HZ	500W
CHL110D	110V 50HZ	500W
CHL120D	110V 50HZ	500W

REPLACEMENT BULBS

Replacement bulbs can be obtained from your local dealer or Clarke International Spares Department

230V, 150W	Part No. 5460625.
230V, 500W	Part No. 5460503.
110V, 150W	Part No. 5460620.
110v, 500w	Part No. 5460504

MAINTENANCE

1. Clean the lens at regular intervals using a non-abrasive glass cleaner.
2. When handling the bulb use clean paper or cloth...DO NOT allow your fingers to come into contact with the glass