

Cadenza 12/22

Cadenza 19/32

Do not discard carton before locating the LAMP and the POWER CABLE which are all packed within the one, outer carton.

MOUNTING

This spotlight is supplied with an M.12 Bolt, Washer and Wingnut for compact suspension by a Heavy Duty Hook Clamp (order code 26 874 03). The washer should be used immediately below the wingnut. An alternative method of suspension from 48mm ext. dia. pipe is the use of an 1-1/8-in. dia. TV spigot with M.12 stem and locknut (order code 26 860 04) in conjunction with a TV Hook Clamp (code 26 594 04). There are also a variety of other mounting brackets for fixing to either horizontal or vertical surfaces or 48mm pipe. Whichever method of suspension is used the access to the colour frame runners, and the spring safety clip, must remain at the top - this will ensure that the lamp filament is above the lamphouse.

An alternative cranked fork is available for use when the spotlight is supported from below and from a rigid bridge structure.

Do not mount on, or near, a combustible surface. In the most onerous conditions of use parts of the housing can reach up to 195°C after prolonged use (all operator controls are heat-insulated).

In addition to the primary suspension always use a safety chain (order code 26 064 18); this has a second clip-hook to engage in the safety bond anchorage specially provided on this spotlight. The other end of the safety chain should be secured so that there is just sufficient free length to allow swivel and tilt adjustments. Any safety chain which has been stressed by fulfilling its function (or has been mis-used) must be discarded, and replaced, if either the links or hooks have been deformed.

A 25mm mesh Lens Guard is fitted as an integral part in front of the heat-resisting borosilicate glass lens.

CONNECTION

This spotlight is supplied with a 1.5m long power cable with a moulded-on CEE.22 high temperature power socket to engage in the mating connector fitted as an integral part of the spotlight. This moulded socket has an angled cable exit to direct the toughened silicon rubber cable away from the lamphouse. A clip is provided on the fork to guide the cable, and also to prevent the cable swinging away out of reach when the connector is disengaged to gain internal access.

The lamp supplied incorporates an internal fuse but the supply should be protected by a fast-acting HBC fuse-link to BS.88 or IEC.241 if it is to be fed direct from a mains supply. Reputable Thyristor dimmer controlled circuits incorporate fuse-links of equal or better standard.

LAMP

Each spotlight is supplied with a 240V or 220V tungsten halogen lamp with a GY.16 base and 70mm light centre length. For safety, the bottom side-hinged internal access to the lampholder is mechanically interlocked so that it cannot be opened without first disconnecting power by separating the CEE.22 power connector.

When opened the bottom panel provides full length access to the lamphouse. The lampholder assembly is secured by a toggle fastener to the underside of the extruded lampray (which is movable axially to change beam distribution). Release this fastener, and pull gently at right angles to the extruded lampray. The lampholder assembly will descend sufficiently for lamp access, but remains captive on two guide rods.

Do not directly handle the envelope of the tungsten halogen lamp because finger-prints can cause de-vitrification of the quartz and cause premature lamp failure. Use the protective cover supplied in the lamp carton. This lamp has a base with two unequal size pins - the larger pin needs to be on the right-hand side when facing the lens or reflector. Insert the pins into the sockets on the lampholder and press in firmly so that the bottom of the lamp base seats upon the flat top of the lampholder. After securing first the lampray, then folding the toggle fastener flat, and finally securing the hinged base with the toggle fasteners, remember to re-engage the power connector at the rear.

Quartz envelope tungsten halogen lamps all remain hot for a considerable period after switching off, or after filament failure, and are dangerous to handle in this condition. Allow to cool for at least five minutes before removing using a dry cloth.

The centering of the lamp filament within the reflector is important for optimum performance. Adjusting screws for side to side, and vertical centering of the lamp filament are provided and accessible through the bottom cover with the use of a tool.

ADJUSTMENT

First ensure that the suspension bolt is vertical. Open the iris diaphragm to full aperture (handle upwards), and then withdraw all four beam shaping shutters to the limit of movement. Next light up and direct the spotlight to the area to be lit, but do not tilt upwards more than 45° above horizontal, or more than 75° below. These are high-powered luminaires which project significant heat, as well as light, in the beam and therefore should not be used at very short range.

To adjust the lens system, to its narrowest setting lift the front hinged toggle, at the side forward of the gate plane, so that it projects at right angles to the spotlight, then rotate the toggle anti-clockwise to move the front lens to its most forward position. When the toggle is hinged back flat to the housing this automatically locks the front lens in the chosen position. Similarly, adjust the rear lens by the rear toggle knob, but clockwise to move the rear lens towards the gate plane until the spotlight projects a hard-edge circle. Depending on the throw distance it may be necessary to move the front lens fractionally rearwards (clockwise rotation) to obtain a hard focus.

The distribution of light within the circular beam is adjustable by moving the knob at the bottom of the rear casting; clockwise rotation increases intensity in the centre of the beam, anti-clockwise rotation increases the light towards the edges.

Next set the beam shaping shutters to produce the beam shape required; the top shutter changes the bottom of the projected beam, the right hand shutter the left hand side of the beam. Refocus with the rear lens if necessary.

Whenever a wider spread of light is required move the front lens rearwards (clockwise rotation), and subsequently refocus by moving the rear lens forward (anti-clockwise rotation). Finally re-adjust for preferred beam distribution, and the rear lens for preferred edge-quality.

Procedure is the same if the built-in iris diaphragm is used, or an intricate cut-out mask held in a Pattern (gobo) Holder (code 23 864 07) has been inserted in the side-entry gate runners provided with a spring safety clip.

Avoid prolonged use with the lenses set for the widest spread coupled with the effective beam spread reduced by a small iris diaphragm aperture; this is wasteful of light, and unnecessarily onerous on the iris.

COLOUR FRAME

One 245mm square DIN-size metal colour frame is supplied for thin-film, high temperature 'Chromoid', or for non-saturated colours of 'Cinemoid' sheet. The spring clip at the side of the colour frame runners ensures retention and safety even when used near-vertical.

Additional colour frames can be purchased (code 27 264 05).

A Semaphore Colour Unit (code 23 881 05) is available for this spotlight. This has 24V extra-low voltage motor drive. The tilt pivot axis of the luminaire is adjustable to compensate for the added frontal weight.

MAINTENANCE

The top front covers over the lenses slide apart to provide full-length access. The lenses, when cold, should be cleaned with a damp cloth. The reflector should be polished with a soft, dry cloth through the hinged bottom access to the lamphouse. A full range of packaged spares is available for this product - an illustrated Spares Sheet to aid positive identification of parts is available on request.

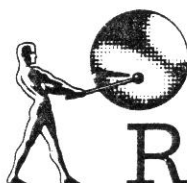
SPARE LAMPS

The Rank Strand biplane filament lamps supplied complement the optical design and ensure optimum performance in any of the Cadenza range. The re-order codes for these lamps are:-

RSE.79 2000W 240V biplane filament	34 232 06
RSE.79 2000W 220V biplane filament	34 232 14

The following lamps with monoplane filaments are also stocked and are an acceptable (but not equivalent) substitute:-

2000W 240V Thorn EMI Class CP/43	34 224 0T
2000W 220V Thorn EMI Class CP/43	34 224 18



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