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## INSTRUCTION LEAFLET

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**Model  
814**

**1000W Prism-Convex Spot**

**21 307 04**



**RANK STRAND ELECTRIC**

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Cables: Rankaudio Brentford.  
A Division of Rank Audio Visual Limited

## MOUNTING

This luminaire is supplied with a  $\frac{3}{8}$ -in. Whitworth bolt, two washers and a wingnut for compact suspension by a Hook Clamp (order code 26 483 07). One washer should be assembled between the bolt head and the tapped hole in the suspension fork. The other washer should be placed between the Hook Clamp and the wingnut. If mounting on a Telescopic Stand (order code 27 896 09) is required then the fork must be reversed so that the lamp-holder remains below the lamp envelope and so that access to the colour frame runners remains from above the unit. In addition a Spigot Adaptor with a  $\frac{3}{8}$ -in. Whit. thread (code 26 484 02) will be required to screw over what was the suspension bolt.

Prior to mounting always tighten the suspension bolt and/or spigot to the fork with a spanner to ensure that subsequent rotation is limited to the one point where it can be finger-tightened. When mounted the suspension bolt must always be vertical to prevent edge-on burning of the lamp filament and the consequent danger of lamp failure by the filament coils short-circuiting.

Always use a Safety Chain (code 26 064 0T) in addition to the primary suspension. Do not mount on a combustible surface.

A small-mesh wire lens guard is available as an accessory (code 27 885 02) to fit into the rear set of colour frame runners. A lens guard may be required by local regulations and is recommended as a sensible safety precaution wherever a lens failure would constitute a hazard. The lens is of heat-resisting borosilicate glass.

## CONNECTION

The short length of high temperature 3-conductor flexible cable should be connected to a plugtop and the supply to a mating socket so that the unit can be disconnected for safety when re-lamping.

Connect the brown conductor to the Live pin of the plugtop, the blue conductor to the Neutral pin and the green/yellow conductor to the Earth pin of the plugtop.

## LAMP

GX9.5 base down, 55mm light centre length  
with 40mm max. dia. envelope.

1000-watt maximum, Class T/11, or equivalent  
23,000 nominal lumen output, objective life 750 hour  
1000W 240v Class T/11 order code 34 206 14

Before lamping, or re-lamping, always separate the local connectors in the flexible cable to personally ensure that the supply is disconnected.

Lamp access is provided by temporary removal of the top cover which is secured by two toggle fasteners at the rear which, when released, allow the cover to be slid rearwards (releasing the front, internal lip) and then lifted upwards. Do not directly handle the envelope of the tungsten halogen lamp as finger-prints may cause de-vitrification of the quartz and cause premature lamp failure. Use the protective cover supplied by the lamp manufacturer, insert the pins into the sockets and press firmly. Remove protective cover before replacing the top cover. Re-connect only after the top cover has been secured.

If local regulations require that internal access must require the use of a tool, the toggle rings can be removed by prising apart with a pair of pliers - subsequently a screwdriver will be necessary to operate the fasteners

## ADJUSTMENT

Ensure the suspension bolt is vertical, then light up and direct the unit to the area to be lit. Adjust the slide-focussing knob underneath the unit to provide the beam spread required - towards the lens for greater spread, away from the lens for higher intensity over a smaller area. If, at maximum flood focus, some patterning is apparent in the beam then this can be minimised by rotating the lens through no more than 30°.

If necessary the diffused edges of the beam at anything but tight spot focus, can be roughly shaped by the addition of a four-door rotatable Barndoor Attachment (code 23 894 09). This barndoor has three mounting clips, two of which are rigid and the third sprung. To attach first insert the sprung clip into the front aperture of the luminaire, then press against the spring which will then allow the other two clips to be engaged in the aperture. When the spring is released the barndoor will be attached but can be rotated. Clip the sprung catch of the safety wire through the hole provided adjacent to the access to the colour frame runners.

## COLOUR FRAME

One 165mm ( $6\frac{1}{2}$ -in) square metal colour frame for either 'Cinemoid' or thin-film, high temperature 'Chromoid' colour filter is supplied. The colour frame runners are within the luminaire with a spring catch to ensure retention and safety when used near vertical.

'Cinemoid' colour filter should be cut slightly smaller than the frame and inserted between the two plates of the colour frame.

'Chromoid' filter should be cut oversize and the excess wrapped around the edges of the flat, back plate which is then inserted in the grooves of the front plate. 'Chromoid' is recommended for onerous duty, i.e. all saturated colours, or when the luminaire is directed above horizontal.

Additional colour frames can be purchased (code 27 792 17).

## MAINTENANCE

The lens, when cold, should be cleaned with a damp cloth. The lens can be removed for cleaning by releasing the top two spring retainers from inside the lamphouse. The reflector should be polished with a dry, soft cloth prior to re-lamping. For spares see current Spares Schedule.

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