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INSTRUCTION LEAFLET

strand T84

1000W HALOGEN

VARIABLE SPREAD PROFILE SPOT

MOUNTING

This luminaire is supplied with a $\frac{1}{2}$ -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. An alternative method of suspension is the use of an $1\frac{1}{8}$ -in. diameter TV spigot with a $\frac{1}{2}$ -in. Whit. stem and locknut (code 26 593 09) in conjunction with a TV Hook Clamp (code 26 594 04).

If necessary, in tight locations, the alternative short tilt axis can be used - to do this release the tilt locking knob and then remove the two dome nuts at the pivot points, then spring the fork apart to release from the pivot bolts; next reverse the locking knob and locking plate in the two smaller holes of the fork and reassemble using the alternative, large tilt pivot holes with the locking plate and knob beneath the 90mm dia. friction disc.

If mounting on a telescopic stand (order code 26 896 09) is required the fork must be released to enable the fork to be reversed so that the lampholder 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 $\frac{1}{2}$ -in. Whit thread (code 27 487 09) 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.

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.

LAMPS

GX9.5 base down, 55mm light centre length. 1000W 240v Class T/11 (order code 34 206 14). Always separate the local plug and socket to personally ensure that the supply is disconnected before lamping or re-lamping. Then turn the two toggle fasteners, adjacent to the cable exit, and withdraw the lampholder assembly. 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 home. Remove the lamp protective cover and replace the lampholder assembly inserting the guide tongue into the internal mating guide which is parallel to the rear of the spotlight. Secure both toggle fasteners. Only then should the local connectors be mated.

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.

Quartz envelope tungsten halogen lamps 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.

The availability of a spare lampholder assembly (order code 27 795 13) allows a new lamp to be substituted quickly without upsetting the orientation.

ADJUSTMENT

First ensure that the suspension bolt is vertical and that the lampholder, and therefore the cable exit, is below the spotlight housing and handle. Then light up and withdraw all four beam shaping shutters to their limit of movement and direct the luminaire to the area to be lit. Adjust the front lens, by releasing the front knob underneath the unit, to the furthest forward position and similarly the rear lens towards the rear until the spotlight projects a hard-edged circle - if the area of coverage is too small to contain the beam shape required adjust the front lens rearwards, and the rear lens forwards to maintain the hard-edge as the spread increases - next set the beam shaping shutters to produce the beam shape required - the top shutter changes the bottom of the projected beam and the right hand shutter changes the left hand side of the beam. Finally refocus for a hard-edge, or defocus for a softer edge quality using the rear lens. For maximum efficiency always use the variable-spread lens system to reduce the beam spread rather than pushing in all four shutters to form a smaller aperture. If an intricate cut-out mask is inserted in the gate runners, forward of the masking shutters, then increased contrast of the projected pattern can be obtained by reversing the front lens so that the convex surface is forward - alternative mounting arrangements are provided for this purpose. See Maintenance below for the method of internal access.

As well as beam spread and beam shape the distribution of light within the beam is adjustable by adjusting the position of the lamp filament within the reflector by means of the thumbscrew forward of the cable entry. Clockwise rotation of this thumbscrew increases intensity in the centre of the beam, anti-clockwise rotation increases the intensity at the edges. The two recessed-head screws at the rear of the lamptrey should only be adjusted if lateral movement of the lamp is necessary to centralise the filament in the reflector - before using these check (when disconnected) that the lamp is correctly inserted and seated in the lampholder.

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. A swing safety catch is provided over the top-access slot to the internal colour runners.

'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. saturated colours, or when the luminaire is directed above horizontal.

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

COLOUR CHANGE

The 24v Colour Change Wheel (code 23 890 07) or the 24v Semaphore Colour Change Unit (code 23 781 00) bolt directly to the nut-inserts provided in the front of the luminaire. The screws provided in these nut-inserts should not be discarded as they have an optical purpose as well as being the means to secure colour change accessories.

MAINTENANCE

Full length interior access is provided by the top cover which is secured by two fasteners at the rear which, when released, allow the cover to be first slid backwards, releasing the front, internal lip, and then upwards. Lenses, when cold, should be cleaned with a damp cloth.