



## REGIONAL OFFICES AND ASSOCIATE COMPANIES

### SOUTHERN REGION, HEAD OFFICE

Rank Strand Electric,  
P.O. Box 70,  
Great West Road,  
Brentford,  
Middlesex,  
TW8 9HR.  
Tel: 01-568 9222  
Telex: 27976  
Cables: Rankaudio Brentford

### AUSTRALIA

Rank Industries (Australia) Pty. Ltd.,  
Strand Electric Division,  
19 Trent Street,  
Burwood,  
Victoria 3125.  
Tel: 29-3724  
Telex: 31809  
Cables: Spotlite Melbourne

### NORTHERN REGION

Rank Strand Electric,  
Church Lane,  
Lowton,  
Nr. Warrington,  
Lancs,  
WA3 2PN.  
Tel: Ashton-in-Makerfield (0942) 73811

### CANADA

Strand Century Limited,  
6334 Viscount Road,  
Malton,  
Ontario.  
Tel: (416) 677-7130  
Telex: 06 968646  
Cables: Spotlite Toronto

### ASIA

Rank Strand Asia Ltd.,  
1618 Star House,  
3, Salisbury Road,  
Tsim Sha Tsui,  
Kowloon,  
Hong Kong.  
Tel: 3-685161  
Telex: 74953 Rank HX  
Cables: Spotlite Hong Kong.

### GERMANY

Rank Strand Electric,  
3340 Wolfenbüttel-Salzdahlum,  
Salzbergstrasse 2,  
W. Germany.  
Tel: 05331 7951  
Telex: 09 56 41

### SOUTH AFRICA

Rank Strand Electric,  
P.O. Box 6752,  
Johannesburg 2000.  
Tel: 838 6621  
Telex: 8-0848 SA

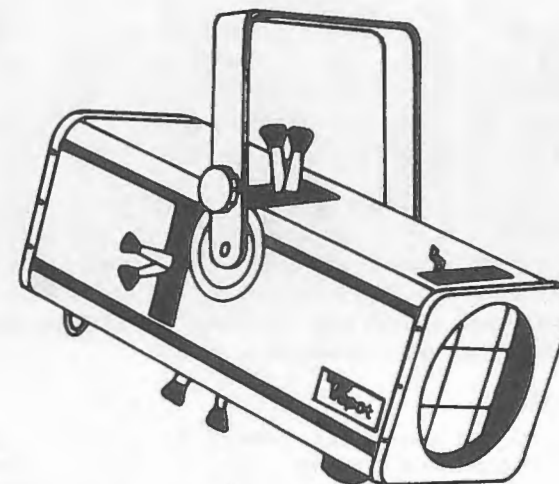
### U.S.A.

Strand Century Inc.,  
20 Bushes Lane,  
Elmwood Park,  
New Jersey 07407.  
Tel: (201) 791-7000  
Telex: 230 130 322

Rank Strand Electric is a division of Rank Audio Visual Limited



## INSTRUCTION LEAFLET



# 2Cspot

## 1000W TUNGSTEN HALOGEN

### BEAM SPREAD

Order Code 21 031 0T 22° Maximum Spread

Order Code 21 032 05 30° Maximum Spread

The beam spread of either model can be increased to 38° maximum  
by using a supplementary, accessory lens.

PUBLICATION TS 2/1

ISSUE 1/7705

## 1 MOUNTING

This spotlight has alternative tilt positions to suit different mounting positions and weight distribution changes caused by the addition of colour change accessories. A recessed-head type screwdriver is all that is required to change the two large diameter tilt clamping discs from one position to the other.

The fork is supplied with a  $\frac{1}{2}$  in. Whitworth bolt, washer and wingnut for compact suspension by a Hook Clamp (order code 26 483 07) from a horizontal 48 mm external diameter pipe. The 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 (order code 26 593 09) in conjunction with a TV Hook Clamp (order code 26 594 04).

For mounting from a vertical 48 mm ext. dia. pipe use a Boom Bracket (order code 26 255 07); for ceiling mounting use a Ceiling Fixed Saddle (order code 26 259 09).

If mounting on a Telescopic Stand (order code 26 626 09) is required then the fork must be reversed so that the lampholder and cable exit is below the spotlight. In addition a Spigot Adaptor with a  $\frac{1}{2}$  in. Whit. thread (order code 26 487 09) will be required to screw over what was the suspension bolt.

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

## 2 CONNECTIONS

The length of special high temperature three-conductor flexible cable fitted to the spotlight must be connected to the supply by means of a local plug and socket. 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.

## 3 LAMP

GX9.5 base down 55 mm light centre length.

1000 watt 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.

## 4 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 both sets of four beam shaping shutters to their full extent. Direct the beam, as required, and adjust the lens, by the large locking knob underneath the spotlight, to obtain a circular beam with hard edges.

For a hard-edged beam ensure that the front set of shutters are withdrawn to their full extent and then use only the rear set of four shutters to shape the beam — the bottom shutter knob affects the top of the projected beam, the right hand shutter the left hand side of the beam. Re-focus as necessary.

A soft edged, shaped beam is obtained in exactly the same way but the aperture formed by the rear shutter blades is soft focussed, rather than hard focussed.

For a mixture of hard and soft edges withdraw the rear set of shutters to their full extent and use the appropriate front shutters, hard focussed, to obtain the hard-edges for precise cut-off, and then use the appropriate rear shutters to shape the remaining soft edges of the beam so that they can merge into the remainder of the lighting. Please note that, **unlike previous Rank Strand Bifocal Spots**, the two sets of shutters are identical and the rear set are used for either hard or soft-edged beam shaping — only when mixed-edge quality is required are the front set used for the hard-edge components.

For hard or soft-edged circular beams, smaller than the maximum spread, insert either a T-spot iris diaphragm (order code 23 775 13) or one of the three different aperture masks (order code 23 791 08) into the top-access gate runners.

After setting up and focussing the shutters, check the beam distribution. Optimum results can be obtained by adjusting the position of the lamp filament within the reflector by means of the single screw in front of the terminal block. This screw should be turned clockwise to increase the intensity of the beam, or anti-clockwise to increase the intensity at the edges. The two screws at the rear of the terminal block should only be adjusted if lateral movement of the lamp is necessary to centralise the filament in the reflector — first check that the lamp is correctly inserted in the lampholder.

After adjusting the lamp a slight adjustment of the lens may be necessary.

## 5 COLOUR FRAME

The double colour frame runners are within the housing and a swing safety catch is provided over the top-access slot.

One metal colour frame, 165 mm square, for 'Cinemoid' is supplied.

Additional frames (order code 27 792 03) can be purchased if required.

## 6 LENS CONVERSION

To convert to 30° maximum spread:

Reverse the front lens so that the ball of the lens is towards the gate and add a 90 x 430 mm (3½ x 17 in.) plano-convex supplementary lens (order code 27 777 01).

To convert to 22° maximum spread:

Discard the small diameter supplementary lens and reverse the front lens so that the flat surface is towards the gate.

To convert to extra-wide 38° maximum spread:

Ensure that the front lens has the ball towards the gate, discard the supplementary lens (if any), and substitute a 90 x 430 mm (3½ x 9 in.) plano-convex supplementary lens (order code 27 644 09).

Lens reversal and supplementary lens insertion requires only temporary removal of the full-length top cover pressing. This will reveal sprung-sided runners and a thumbscrew retaining clamp for the larger front lens and runners with a simple thumbscrew on the fixed aperture diaphragm for a smaller diameter supplementary lens.

## 7 MAINTENANCE

Full length internal access is provided by temporary removal of the entire top pressing which is secured, at the extremities, by recessed-head screws.

## 8 ACCESSORIES

	ORDER CODE
Spare quick-change lampholder assembly, including cable -	*27 795 13
12-leaf iris diaphragm - - - - -	*23 775 13
Set of three different aperture masks - - - - -	23 791 08
Additional metal colour frame, 165 mm square - - -	27 792 03
90 x 430 mm (3½ x 17 in.) P.C. supplementary lens - -	27 777 01
90 x 230 mm (3½ x 9 in.) P.C. supplementary lens - - -	27 644 09

\* These accessories are not suitable for early T-spots without the prefix 2