

INSTRUCTION MANUAL

TrussTrouper 1.2

Follow Spotlight

Equipment Type 41080

Preliminary 3/99



STRONG INTERNATIONAL

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PREFACE

THE STRONG TrussTrouper 1.2 Type 41080 is a high intensity, lightweight follow spotlight designed for high performance and ease of operation and portability. The light source is an OSRAM 1200 watt HMI Metal Halide bulb mounted transversly in a fixed, deep ellipse type metal reflector. The bulb is warranted for (500) hours of operation, and it is advisable to have a spare bulb available for each unit.

THE SPOTLIGHT is shipped with a yoke adaptable for truss mounting. An optional folding floor stand assembly, and overhead Hanger Kit, are available from Strong International. Lens mechanisms are available in Long, Medium and Short throw configurations, and are readily mounted to the TrussTrouper as the application or venue require.

THE SOLID STATE POWER SUPPLY is shipped separately from the head assembly. The power supply and lamphouse are forced-air cooled by built-in blowers. Lamphouse and power supply are controlled by means of a fixture mounted pushbutton switch at the rear of the base pan.

POWER REQUIREMENT for the TrussTrouper is 120 V.AC, 15 amperes, 60 Hertz. Approximate line draw is 12 amperes. A 220 V.AC, 50/60 Hertz model is available under Type Number 41080-03 or -04. A 12 foot, three-wire power cord is mounted to the power supply.

THE OPTICAL SYSTEM, designed for left- or right-hand operation, includes a variable focus lens mechanism which intensifies light output as the spot size is reduced from flood to spot. The (2) rear mounted controls operate the fade out/douser and the iris. Control levers for the six color self-cancelling boomerang are located on the top of the housing. A pattern slot for gobos is accessible in front of the iris.

REPLACEMENT BULBS are available through authorized Strong International and OSRAM Dealers. Use only the OSRAM 1200W HMI in this unit. Bulbs returned for warranty adjustment must be returned through the original supplier, shipped prepaid, with all relevant warranty papers completed and enclosed.

IF AT ANY TIME you have a suggestion, or desire aid in securing anticipated results, write directly to STRONG INTERNATIONAL, 4350 McKinley Street, Omaha, Nebraska 68112.

INSTALLATION - OPERATION

INSPECT THE UNIT upon receipt. Any damage must be reported to the freight carrier immediately. It is the responsibility of the *consignee*, not the shipper, to file damage claims.

THE HMI BULB is included in the accessory kit packed with the spotlight. DO NOT touch the quartz envelope when handling the bulb; fingermarks will burn into the vessel, reducing light, and contributing to premature bulb failure. Handle the bulb by the metal base caps only. The HMI bulb is *not* polarized, and the igniter lead can attach to either end.

DISMOUNT THE LAMPHOUSE COVER from the rear of the lamphouse by removing the (4) mounting screws. Loosen the top bulb mounting bracket and remove the threaded nuts from the ends of the HMI bulb. Pull the upper bulb mount clear of the reflector and insert the bulb through the reflector holes. Slide the lower bulb end cap through the lower mounting opening; attach the igniter lead and secure using the knurled nut. Swing the top bulb mounting bracket over the upper end cap; attach the upper lead, and secure using the knurled nut. Tighten the top mounting bracket.

IF USING THE OPTIONAL FLOOR STAND ASSEMBLY, drop the legs to the horizontal position and pin in place. The floor stand may then be moved on its casters to desired location. IMPORTANT: Once the floor stand has been positioned, lower the leveling feet to transfer the weight of the unit from the casters to the leveling feet. If the unit is to be permanently installed, it is advisable to remove both casters and leveling feet, and bolt the stand to the floor.

INSERT THE POST of the yoke assembly into the nylon bushing at the top of the floor stand tube. Position the yoke for right- or left-hand operation (as desired). Place the spotlight head on the yoke assembly, making certain that the friction plate of the spotlight saddle is between the yoke and the brake clamping plate. Tighten the (2) handwheel knobs on each side of the yoke allowing adequate end play for free operation, and tighten the (2) lock knobs. Vertical movement of the spotlight head can be adjusted by the amount of torque applied to the spring-loaded clamping knob against the friction plate.

THE SPOTLIGHT YOKE, as supplied, is designed for use with standard truss fixtures. Truss mounting the TrussTrouper will depend largely on its application in any given venue.

THE TrussTrouper SPOTLIGHT may be suspended from a ceiling or overhead truss by means of an optional Hanger Kit. This kit is available through your authorized Strong International Dealer.

ELECTRICAL CONNECTION for the 41080-01 or -02 (120 V.AC, 60 Hz.) requires a 120 V.AC, three prong 15 ampere grounded outlet. The Type 41080-03 or -04 (240 V.AC, 50/60 Hz.) may be fitted with a plug acceptable for the local electrical supply. Cooling fans are either 120 V.AC or 240 V.AC and not interchangeable; see Data Plate on unit for correct voltage. Sustaining line draw of the TrussTrouper is (12) amperes; observe local electrical codes.

ENERGIZE THE AC LINE as required. When the power switch at the rear of the spotlight head is closed, the bulb will ignite, and the cooling fans will operate. Allow one to five minutes for the bulb to reach full intensity. Rotate the three adjusting screws below the lamphouse base pan to center and focus the bulb inside the reflector. Alternate adjustments until the light field is as flat as possible at highest intensity.

WHENEVER THE SPOTLIGHT is moved, either from one position to another, or one show site to another, the bulb mount should be inspected at the new installation site to determine that the bulb is firmly seated in its socket. The above bulb alignment procedure must then be repeated after the bulb mount assembly is replaced.

MAINTENANCE

THE TrussTrouper requires very little maintenance to keep it in good working order. Cleanliness is the most important factor. Clean the surface of the reflector regularly using a clean, dry cloth. If excessively soiled, a good, spray-on commercial glass cleaner may be used. The bulb envelope may be cleaned with alcohol, and rinsed with distilled water on a clean cloth.

THE COOLING FANS are permanently lubricated, and require no oil. Fan impeller blades and intake grilles must be cleaned regularly to prevent restriction of air flow, particularly after events such as tractor pulls or rodeos.

OPTICAL SYSTEM LENSES may be cleaned with an optical grade lens cleaner and Roscoe Lens Tissue. Light lubrication of the lens carriage slide rods using WD-40 or equivalent may be desirable; do not use graphite lubricants, and do not lubricate the iris assembly.

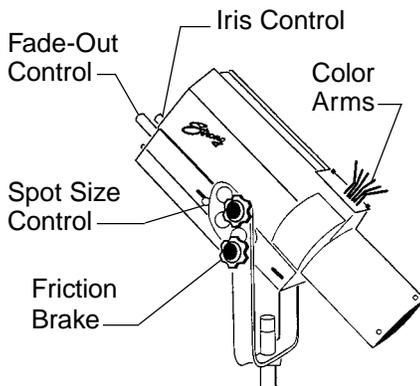
OPERATION OF OPTICAL SYSTEM

THE OPTICAL SYSTEM of the TrussTrouper consists of a spot size selector, an iris assembly to reduce the size of the spot aperture, and a fade-out chopper assembly to permit reducing light output from full intensity to complete douse. The iris and chopper controls are mounted on the back of the lamphouse and are fully accessible from either side of the unit. The spot size is selected by setting and locking a control knob located on the right side (as viewed from rear) of the unit.

INSTALL A LENS MECHANISM compatible with the desired throw. The three lens mechanisms are designated as Short, Medium, and Long Throw. The throw specifications listed below may serve as a guideline when setting up the TrussTrouper, but optimal performance at a given throw distance may vary with ambient light levels, projection angles, and other variables unique to the venue.

Short Throw	20 - 50 feet (6.0 - 15.2 m)
Medium Throw	40-100 feet (12.2 - 30.5 m)
Long Throw	50-120 feet (15.2 - 36.5 m)

IGNITE THE LAMPHOUSE and allow the bulb to stabilize. Open the iris to project the largest aperture by rotating the iris control (left) fully counterclockwise. Open the chopper blades by rotating the chopper control (right) fully clockwise. Rotate the spot size control knob (right side) counterclockwise to unlock, and slide the knob forward or back to set the desired spot size. Lock the spot size control at the desired point.



TO REDUCE SPOT SIZE, or to project a “head” spot, rotate the iris control clockwise to the desired spot size. The spot cannot be doused by means of the iris control; do not force the control beyond its stop.

ROTATING THE FADE-OUT CONTROL will decrease the light output, and dim the spot to complete douse-out. It is advisable to use the dousing capability of this control to cut off the light between cues instead of extinguishing the bulb. The HMI bulb requires a relatively long warmup period, and repeated ignitions decrease bulb life.

OPERATION OF COLOR BOOMERANG

THE COLOR BOOMERANG is equipped with six color holders. Additional filter holders can be supplied by an authorized Strong International Dealer.

TO OPERATE INDIVIDUAL COLOR FILTERS, engage the desired filter selector lever. A rocker catch located in the color disc housing holds the filter in position.

TO RELEASE A COLOR, push the filter release button or engage another color, thus releasing the previous color automatically.

NOTE: WHEN PLACING COLOR FILTERS in the boomerang, the *less* dense colors (pink, amber) should be placed in the holders toward the **rear** of the boomerang (toward arc), and those of *greater* density (red, green) should be placed in the holders toward the **front** of the boomerang (away from the arc). Use *high temperature* filter material (RoscoLux® or equivalent).

COLOR TEMPERATURE REDUCTION FILTERS, required for use with television and videotape, are available from theatrical supply dealers.