

# Paglight PowerArc Instruction Leaflet

Model 9955

## Safety

**PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE USE.**  
This leaflet contains important safety and operating information.

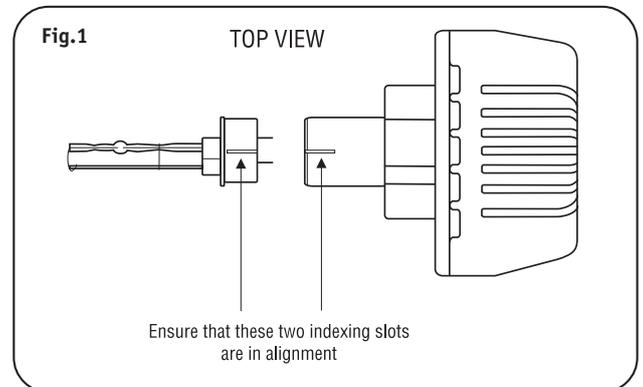
- 1.1** The PAG PowerArc is polarity sensitive and designed for low voltage DC input only. Do not connect to incorrect supplies (see Specification).
- 1.2** Never attempt to run the Arc lamp unit away from its enclosure. During operation the Arc lamp should always be enclosed within the reflector housing with the clear UV safety glass intact.
- 1.3** Without the safety glass UV is emitted from this lamp. Possible skin and eye irritation can result from direct exposure.
- 1.4** Avoid the possibility of water ingress. This could cause the lamp to rupture forcibly.
- 1.5** Always switch the Paglight off before removing or replacing the PowerArc plug-in lamp unit.
- 1.6** The Arc lamp's quartz envelope runs at elevated temperatures. For personal safety, never remove the PowerArc unit from the Paglight without allowing it to cool completely. After removing the PowerArc unit from the Paglight always use the PAG Lamp Protector cover, to avoid contamination and damage to the quartz Arc lamp.
- 1.7** For optimum performance never handle the lamp's quartz envelope directly. Should you inadvertently handle the quartz envelope you must clean it carefully with methylated spirit or industrial alcohol, using a lint free cloth.
- 1.8** Do not disassemble the PowerArc unit. The electronics housing contains no user serviceable parts. Incorrect reassembly may result in a safety hazard.
- 1.9** The PowerArc electronics generate high voltages when striking. Operating the Paglight with a damaged or misaligned lamp near combustible materials could be hazardous.
- 1.10** Care should be taken not to obstruct the cooling vents.

## Specification

- 2.1 PAG POWERARC (BALLAST UNIT)**  
**Input Voltage:** 10V to 16V DC. 32W  
**Output Voltage:** Striking 3000V, running 60V.
- 2.2 PAG POWERARC (LAMP)**  
Low wattage, single-ended short-arc metal-halide lamp.  
**Lamp Consumption:** 24W.  
**Colour Temperature:** 5600°K (daylight).  
**Lumens:** 1850.  
**Warm-up Time:** 20 seconds to 90% of full output.  
30 seconds to stabilised colour temperature.  
**Lamp Life:** Up to 350 hours dependant upon number of restrikes.

## Fitting

- 3.1 IMPORTANT:** The quartz Arc lamp is a delicate assembly, and can be broken during fitting, unless the instructions below are followed closely. Before breaking the seal and removing the quartz Arc lamp from its transparent shipping tube, inspect it carefully to ensure that no damage has occurred during transportation. The Arc lamp can be returned under warranty providing the seal is intact.
- 3.2 VISUAL INSPECTION:**  
If the quartz envelope is unbroken the Arc lamp should be in working order. EXPECT TO SEE A GAP BETWEEN THE TWO ARC ELECTRODES AND POSSIBLY TINY DEPOSITS WITHIN THE QUARTZ ENVELOPE, (TO THE UNINITIATED THIS COULD RESEMBLE A BLOWN FILAMENT, BUT THIS IS HOW IT SHOULD BE).
- 3.3 FITTING THE ARC LAMP INTO THE LAMPHOLDER:**



1. Remove the quartz Arc lamp from the packaging without touching the quartz envelope itself.
  2. The Arc lamp is a push fit into the lampholder. Carefully holding the Arc lamp by its base flange and without touching the quartz envelope, carefully align the indexing slot of the flange with that of the PowerArc lampholder as shown above in Fig. 1.
  3. Gently push the Arc lamp into the lampholder taking great care not to twist or bend the pins.
- 3.4 FITTING THE POWERARC UNIT TO THE PAGLIGHT:**
- BEFORE PROCEEDING ENSURE THAT THE PAGLIGHT IS DISCONNECTED FROM THE POWER SOURCE.**
1. To avoid the risk of breakage when inserting the PowerArc unit into the lamp body, ensure that the Arc lamp is correctly aligned through both reflectors.
  2. Gently engage the PowerArc unit into the body of the Paglight. When it is fully home the securing latch will lock.
  3. To ensure compliance with EMC Directive 89/336/EU a suppressor is supplied with the PowerArc unit. This should be clipped around the supply cable as close to the unit as possible.
  4. Removing the PowerArc unit is a simple operation but without using the correct technique there is a risk of damage to the delicate quartz Arc lamp. After the release button has been depressed the initial effort required to break the electrical connection is greater than that of the final sliding fit. Whilst depressing the release button prise the two units

apart with your fingertips. As you feel the pressure release gently withdraw the unit, ensuring that the Arc lamp is withdrawn straight from the Paglight, until the quartz envelope is clear of the lamp body.

5. The PowerArc unit should be fitted with a PAG Lamp Protector immediately following withdrawal from the Paglight. This will safeguard the lamp during storage and transportation.

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## Service

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- 4.1 The life of the Arc lamp will be greatly shortened if the Paglight is turned on and off frequently, particularly when it is not at full operating temperature (minimum 5 minutes operation). Arc lamp life is affected more by the number of on/off cycles which have been performed, rather than the number of hours of uninterrupted operation. The onset of lamp failure can be detected by increasing reluctance for the initial Arc to strike.
- 4.2 If a fault develops, do not disassemble the light or its ancillaries. The electronics assemblies do not require periodic maintenance, and contain no user serviceable parts. Unqualified personnel should not attempt further investigation. Any such interference

will invalidate the guarantee and may cause more damage than the original fault.

- 4.3 The PowerArc unit operates at a high voltage, and incorrect reassembly may give rise to the risk of electric shock. Incorrect reassembly of any other part of the light may give rise to a fire hazard as a result of the high currents that flow during normal operation.

In order to maintain the PAG quality standard for which this product was originally selected, seek advice from your nearest PAG Dealer or direct from PAG Ltd., London by telephoning +44 (0)20 8543 3131, or by emailing [service@paguk.com](mailto:service@paguk.com)

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## Warranty

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- 5.1 The Arc lamps are warranted against defects in material and craftsmanship only. This warranty excludes failure from any other cause including improper installation or use, or damage by accident or neglect. In the unlikely event that a lamp fails to operate when commissioned, it will be replaced or refunded at the option of PAG Ltd., London.