

D25

SERVICE MANUAL

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Supported Models
L1.33670.B

Version History

Version	Author	Change Note
04/2019	S. Papke	Original version

Table of Contents

Version History	2
Table of Contents.....	2
Important Information.....	3
Safety Instructions.....	3
General Safety Requirements for Operating Lamphead Systems.....	3
Required Tools.....	4
Disassembling Order.....	5
Lens Door & Safety Glass.....	6
Reflector	7
Safety Switch Activator & Door Latch (SSA)	8
Lamp Holder	9
Housing.....	10
Base Group & Ignitor.....	11
Stirrup	13
Maintenance and Care.....	14
Visual Inspection	14
Cleaning.....	14
Testing of Mechanical Components	14
Contact.....	15
Further Information.....	15

Important Information

This instruction supports only the models listed on page 1. If your model is not listed, please visit www.arri.com/service-lighting for more information. Also, these instructions are for qualified ARRI service personnel only. If you are not familiar with the handling of components that can be destroyed by high voltage or electrostatic discharge, please do not use these instructions and contact the ARRI Lighting Service Team.

Safety Instructions

The following instructions contain helpful advice on how to operate your ARRI lamp head safely. Lamp heads, lamp head systems and accessories may only be operated and used by qualified persons and only for professional lighting purposes. Relevant operating instructions must be followed for the equipment you are using. Please also refer to the Ordinance on Industrial Safety and Health as well as the relevant guidelines and regulations of your national Industrial Injuries Corporation (e.g. BGI 810-1, -3 and -4, BGV A1 for Germany; OSHA or ESTA for USA; etc.). Please refer also to our leaflet "Operating your ARRI Lamp heads safely" L5.70431.E

General Safety Requirements for Operating Lamphead Systems

Relevant Hazard Symbols and Warnings

The following symbols relate to all repairs in this manual. Use care and caution when repairing ARRI Products.



Warning of crushing / hand injury



Warning of a pointed object



Warning of electrical voltage

a) Safety Requirements for Transport, Setup and Operation of lamp heads

» We recommend wearing suitable protective clothing when working with lamp heads in order to prevent injuries and burns.

» In the interest of your own health and safety, we advise you to consider the weight of your lamp head and accessories when carrying or lifting them and to observe the relevant precautions recommended by your Occupational Safety and Health Administration (for Germany BGI 810-1).

» Please ensure that all electrical cables are routed in such a way as to prevent tripping hazards and damage by vehicles. You can achieve this with the help of suitable signs, covers or cable crossovers.

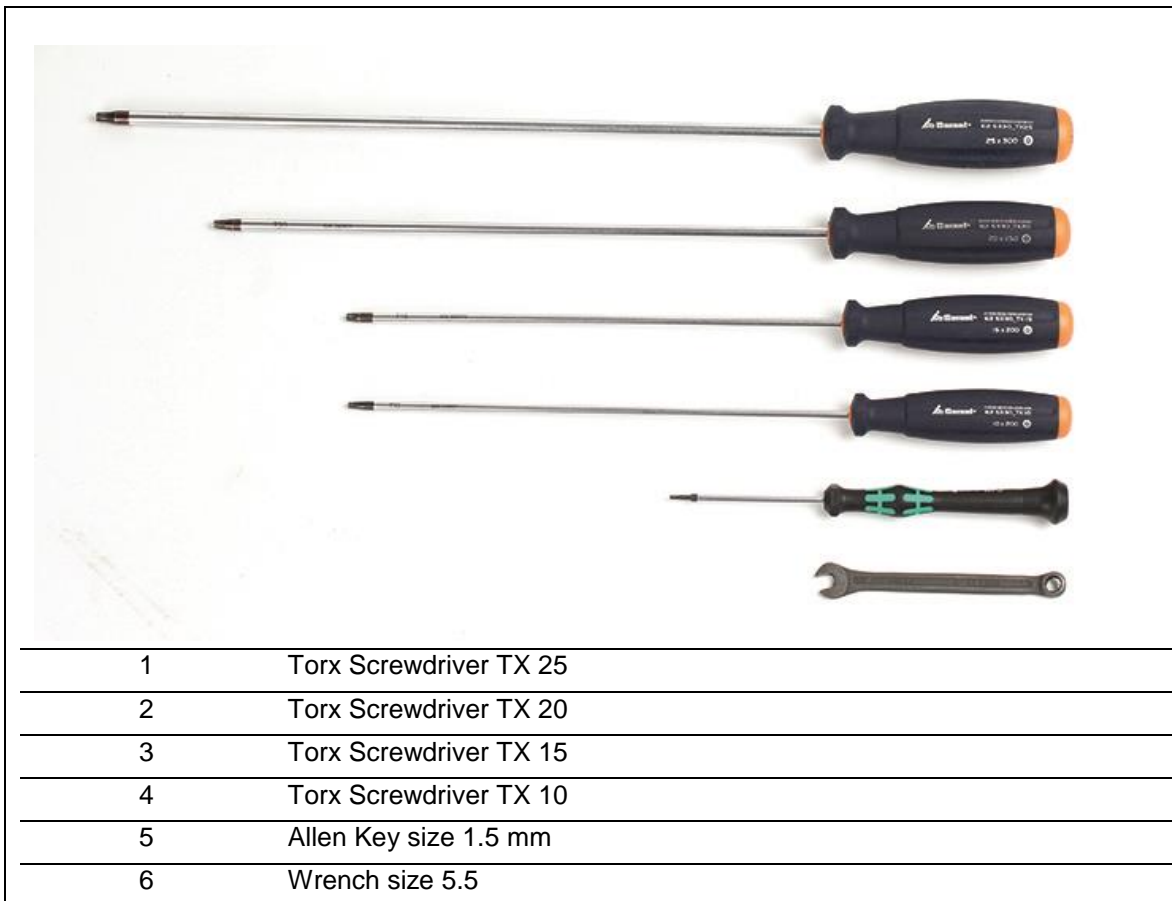
b) Safety Requirements Concerning Electrical Danger

- » Please check the lamp head system and its electrical protection device before each use.
- » The faultless function of the power supply and protection system must be ensured before connecting the lamp head (e.g. grounding, circuit breaker).

It might be necessary to install additional protection measures; for example:

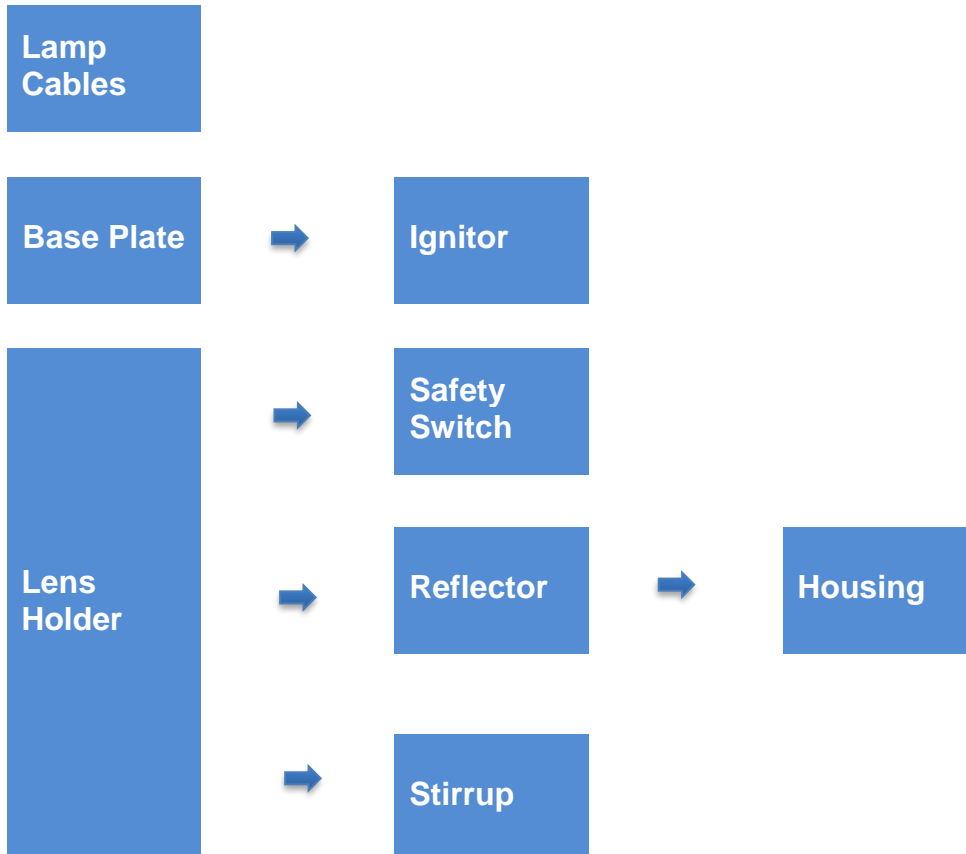
- » the application of residual current operated protective devices (RCDs)
- » the application of safety extra low voltage, protective separation or protective insulation
- » equipotential bonding

Required Tools



Disassembling Order

The graphic shows the order in which the components must be removed to ensure a proper repair. All components which are not preceded by a further assembly group can be exchanged directly.



Warning: Before starting the repair please take note of the safety instructions! Make sure that the lamp head is fully disconnected from the mains and cooled down for a minimum of 30 minutes before opening the cover or beginning the repair.

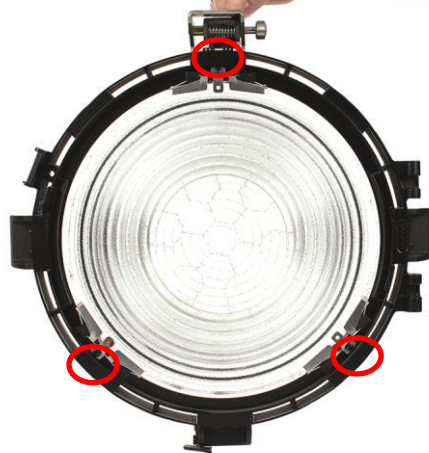


Important Note: See the service parts manual for the correct versions of the spare parts as per serial number.

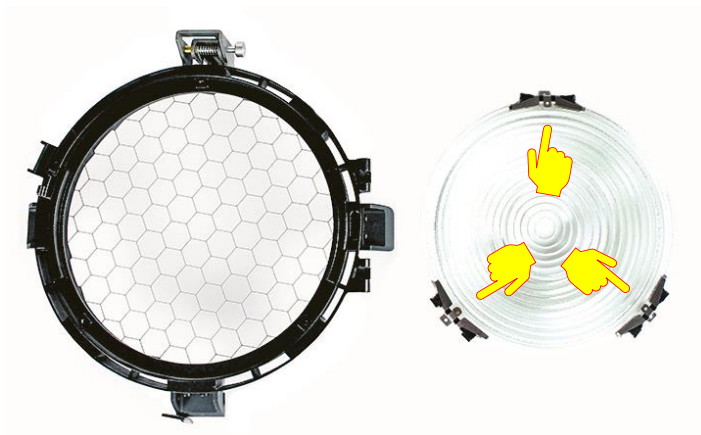
Lens Door & Safety Glass



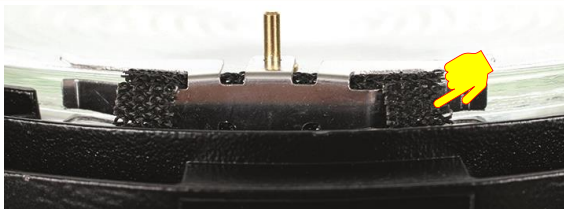
Open lens door latch. Remove 2 screws (Torx 10) from the lens door.



Remove 3 screws (Torx 15) around the Fresnel lens to remove it.



Tip: For reassembly make sure to position all components properly with the safety activator springs in the correct position.



Make sure that there is PTFE sleeve between the lens spring and the glass as shown.

Reflector

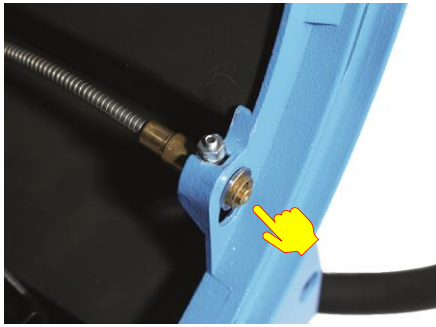


Remove 4 screws (Torx 20) from the outside rim of the reflector.

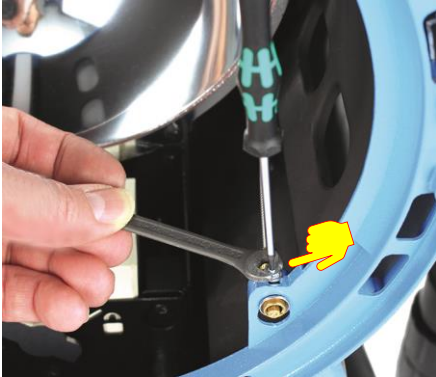
Tip: This is the perfect time to clean the reflector and check for debris and a dull/matte surface.

Important: There is a up and down side to the reflector. The groove goes on the top.

Safety Switch Activator (SSA) & Door Latch



Using a 5.5 mm Allen key loosen the screw. Do not remove.



Take a 1.5 mm Allen key and loosen the inner worm screw until you can remove the safety switch activator on the back side. When you close the lens door completely there should be a small gap (movement) between the black lens door and the blue front housing.

Tip: If the gap is too big then the safety loop can be opened and the lamphead will not strike.

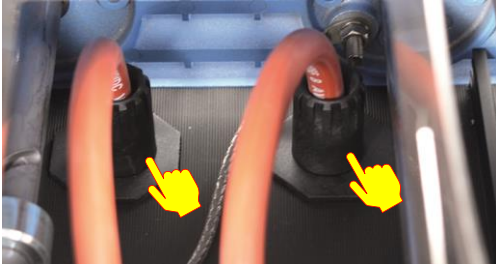


To adjust the door catch, loosen the screw (Torx 10.)

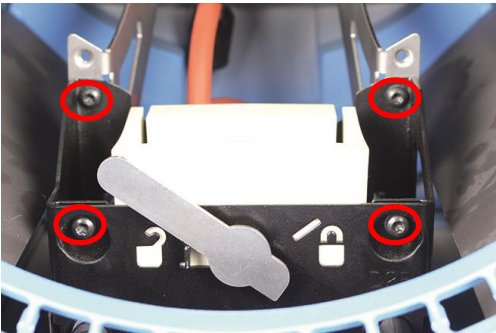
Lamp Holder



Turn the focus knob to the front/flood position. This allows better access to the HT cables in the back of the lamphead.

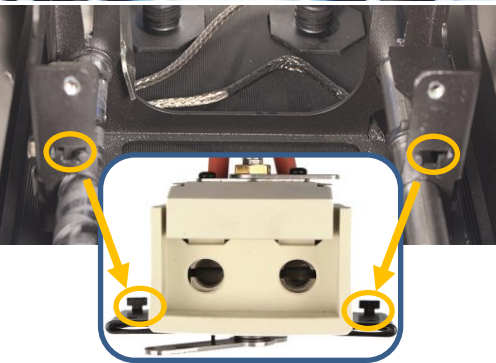


Unscrew the two HT cable bushings and pull the HT cables out of the ignitor.



Move the focus to the back/spot position to allow for easier access to the screws. Remove 4 screws (Torx 20) to remove the lampholder assembly from the focus sled.

To remove, pull entire assembly towards you and wiggle out towards the front.

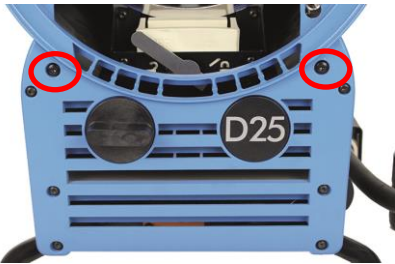


TIP: The tabs must slide out of the mounting plate so that the assembly can be removed.

Housing



Remove the reflector (see above.)



Remove 2 screws (Torx 25) on the front side.



Remove 2 screws (Torx 25) on the back side.



Using the stirrup pull the housing off.

Base Group & Ignitor

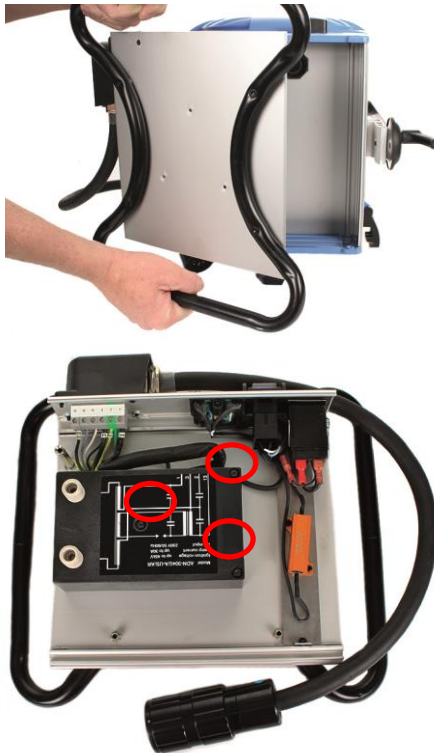


Remove 2 screws (Torx 20) from the front bottom plate as shown and loosen the 2 screws (Torx 20) on the top.

Position the lamphead face down.



Remove the 2 screws (Torx 20) from the back bottom plate as shown and loosen the 2 screws (Torx 20) on the top.



Remove the bottom plate by pulling the skid away.

Remove the ignitor by unscrewing 3 screws (Torx 20) and the cables attached to the terminal block.



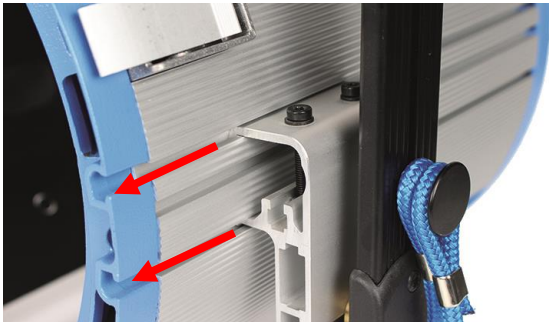
To Remove the Mains Cable

To remove the mains lamp cable connector remove 2 screws (Torx 20) from the cover.
To change the lamp cable remove 4 screws (Torx 20.)

Stirrup



Loosen 4 screws (Torx 20) on the stirrup brackets.



Pull the stirrup towards the front of the lamphead and slide out completely.

Maintenance and Care

Please do not forget that the safe operation of lamp heads also includes their maintenance and care. A visual inspection should be conducted before every use, and an inspection of electrical safety should be conducted at least once every 12 months. The results of these repeated inspections should be documented and filed. You will find additional information for the setup and operation of your lamp head, as well as information on the special features of the individual lamp head models, in the relevant operating instructions. Our recommendations for maintenance of this lamphead can be found on the following pages.

Visual Inspection

We recommend a regular visual inspection. This helps to detect potential damages in an early state. This is the only way to prevent and avoid consequential damage to other components. If your lamp head shows any visual damage, please contact your local ARRI service partner.

Cleaning

The lamp head should be cleaned regularly. This is not just for your own safety; it also increases the lifespan of the device significantly. The following components should be cleaned regularly:

1. Cleaning the UV protection glass:
Use conventional glass cleaner and a soft cloth for cleaning the protection glass.
2. Cleaning the reflector:
Follow the steps for "Lens holder" and "Reflector"
Use conventional glass cleaner and a soft cloth for cleaning the reflector.
3. Cleaning the inner housing:
Follow the steps "Lens holder" and "Housing" in this manual.
Clean the inner housing carefully with a vacuum cleaner and get rid of dust and insects.

Testing of Mechanical Components

The following mechanical components should be checked regularly for functionality:

1. Safety switch:
When setting or checking the safety switch you must ensure that you hear the clicking noise 2 times before the lens door is closed completely. If you are not sure if your lamp head is set correctly please contact immediately your local ARRI service partner for more information on how to proceed.
2. Lamp socket:
Burn marks or discoloration may be an indication for contact problems. We strongly recommend a replacement to avoid damage on the lamp head. Please contact your local ARRI service partner for more information about how to adjust the lamp socket correctly.

Contact

In case you have questions or recommendations, please contact the Global Application & Services department within ARRI via email: service-lighting@arri.de

Further Information

The manufacturer disclaims liability for any damage to persons or properties which are caused by an inappropriate operation of the fixture. Those lie in the responsibility of the operator. Visit our homepage www.arri.com/service-lighting for downloads and software tools.