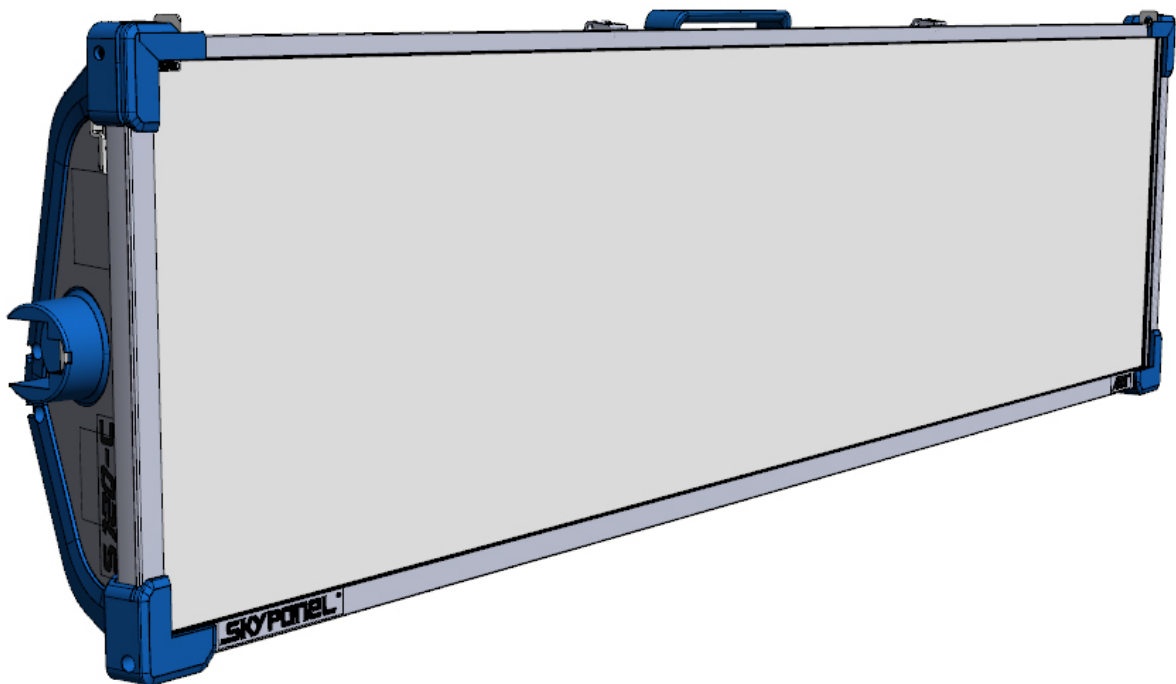


# S120

## SERVICE MANUAL

Date: September 26, 2016



### Supported Models

L1.0009652 / L1.0009653

## Version History

Version	Author	Change Note
09 / 2016	O. Hofmann	Original version

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## 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](http://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 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 Lamp head Systems

#### 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

## ESD Safety Instructions



### ESD sensitive components

This symbol indicates the susceptibility to ESD sensitive components. If a repair instruction contains this symbol, you must take care of the ESD safety preparations mentioned below.



### ESD safety symbols

This symbol indicates ESD protection devices.

## ESD workstation

### General Information

Keep your workplace clean and make sure that you don't use materials which generate static charge. The functionality of workstations should be checked consistently. According to the VDE regulations there has to be a ground fault interrupter for each workplace with electrical voltages. To prevent ESD there must be a secure grounding path. The best way to set up an ESD secure workplace is to use special grounding modules.

### Needed Components:

- Connector to the mains,
- Grounding cable,
- Wristband,
- ESD-protected table-mat

In addition, the use of ESD protected shoes or heel straps are recommended.

## ESD Important Preparations



1. Plug the adapter into a standard power socket.



2. Connect the ground wire to the ESD table-mat.



3. Put the bracelet on. It's important that it is placed on bare skin. Connect the contact of the band with the corresponding port on the ESD-protected mat.

## Relevant Hazard Symbols and Warnings

Please be aware of the following symbols and their meaning.  
Affected steps are marked in the Service Manual.



Warning of crushing / hand injury



Warning of a pointed object



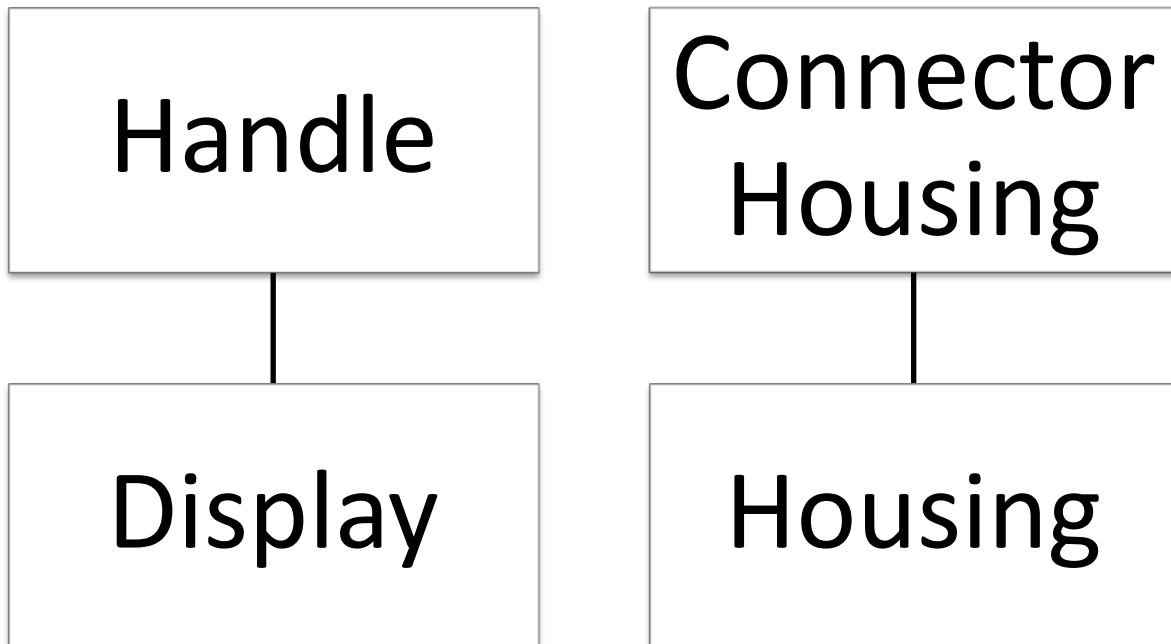
Warning of electrical voltage

## Assembling Instructions

Follow the disassembling steps in reverse to reassemble the individual components. Any additional necessary steps are noted on the disassembling pages.

## Disassembling Order

The graphic shows in which order 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.



## Required Tools



**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 before opening the cover or beginning the repair.



- 1 Allen Key 2.5mm
- 2 Torx TX 10 screw driver
- 3 Torx TX 15 screw driver
- 4 Torx TX 20 screw driver
- 5 Torx TX 30 screw driver



## Connector Housing



Affected Components



1. Lay the lamphead facedown.

2. Loosen the shown screws with a Torx screw driver.

3. Take off the connector housing.

## Handle / Control Panel



### Affected Components



1. Loosen the three shown screws with a Torx screw driver.



2. Take out the control panel as shown in the picture carefully (flat ribbon cable is connected).



3. Take out the control panel completely and disconnect the flat ribbon cable.

## Housing



Affected Components



1. Loosen the three shown screws with a Torx screw driver.



2. Loosen the screws on the both top latches with a Torx screw driver.



3. Loosen the three shown screws with a Torx screw driver.



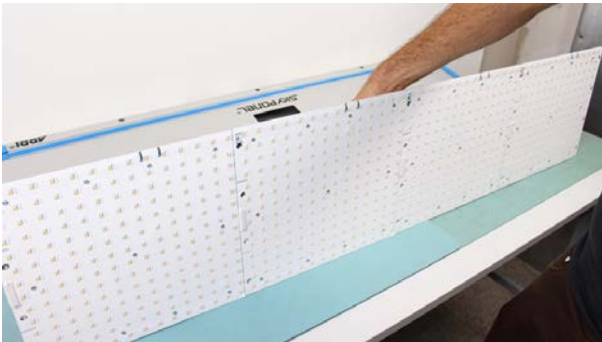
4. Loosen the 8 shown screws with a Torx screw driver.



5. Press the electronic unit to the front carefully.



6. Make sure to hold it as shown in the picture.



7. Take out the electronic unit carefully.



8. Use the assembly stand as shown in the picture. Lay the electronic unit facedown.



## Contact

In case you have questions or recommendations, please contact the Global Application & Services department within ARRI via email: [service-lighting@arri.de](mailto: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](http://www.arri.com/service-lighting) for downloads and software tools.