

ISIS and A&G Box Instrument Spares

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1. Web Page Links:**A&G Box**

Final documentation in the following link:

<https://bscw.ing.iac.es/bscw/bscw.cgi/181031>

ISIS

Final documentation in the following link:

<https://bscw.ing.iac.es/bscw/bscw.cgi/211234>

ISIS and A&G Box

PLC Hardware spare list in the following link:

http://www.ing.iac.es/~eng/ops/spares/PAC_SparesList.pdf

2. General spares and location.

The following table shows the ISIS and A&G box general spares and location.

Table 1 "Spares ISIS and A&G Box Location"

Components	Location	Comments
Stepper motors	Test focal station and Spare Cabinet 1st floor	We have spares motors for any mechanism.
Drive amplifier	Spare Cabinet 1st floor	We have a set of drives amplifiers for each different system, PM546, PM542, MS422 and the micro-step EDM-453 used at the polarization unit. A second spare of the PM546, PM542 and MS422 can be found at the test focal station or in the PLC cabinet aluminizing area.
Power supply	Spare Cabinet 1st floor	Normally we have a set of power supplies, if not we have to look in the electronics lab or the detector lab.
Encoders	Spare Cabinet 1st floor, test focal station and PLC cabinet aluminizing area	-The autotheta ABS encoder is located in the test focal station at the test unit. -TV Focus, auto focus and auto radial is in the Spare Cabinet 1st floor. -Red & Blue Grating is located in the spare cabinet 1st floor. -Collimators Blue and Red focus, the spare transducer it is locate in the PLC cabinet

		aluminizing area. -ISIS Slit and its conditioner card are located in the PLC cabinet aluminizing area. -Polarization unit, the spare inc. encoder is located in the spare cabinet 1st floor
Home and limits switches	Spare Cabinet 1st floor	We have a number of sensors switches for Home, limits and code switches for any different mechanism.
Pneumatics actuators	Test focal station blue cabinet 3	In general we have all most pneumatics components for any pneumatics mechanism, in particularly for the polarisation unit. Pneumatic cylinder 2.
Electronics rack spares circuits board	Spare Cabinet 1st floor	We have a set of spares for all the electronics conditioning cards. See photos below
Calibration lamps	Spare Cabinet 1st floor	Calibration lamps UPS's

3. Photos

Photo 1 "Blue cabinets 3 at the test focal station, pneumatics spares"



Photo 2 "Test focal station general stepper motors spares"



Photo 3 PLC cabinet aluminizing area



Photo 4 Spare Cabinet 1st floor



Photo 5 Spare Cabinet 1st floor “ISIS electronics cards”



Photo 6 Spare Cabinet 1st floor “A&G Box electronics cards”



Photo 7 Spare Cabinet 1st floor PSU's



Photo 8 Blue cabinets 3 at the test focal station “Polarization unit spares”

