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Frequently Asked Questions

Converting NOVA Galaxi DVR 1644 to 220V

Date Raised: 13 March 2017 Date Amended	Safe practices should always be employed to ensure the Health and Safety of yourself, employees and customers (if applicable) Refer to product manuals, exploded drawings and our website if further assistance is required, or contact us on service@teknatool.com

The internal circuits of the Galaxi is naturally able to take in 110V or 220V without changing components, however a plug change is required when if a 220V source is to be used.

To convert to a 220V input, the plug has to be changed to an item with a **rating of 15A**. An example of this can be the **NEMA 6-15P Plug**.

Figure 1: Original 110V Plug

Figure 2: NEMA 6-15P Plug

15A rated plugs have to be purchased from third party suppliers (Such as Amazon.com)

CAUTION:

Make sure the power is disconnected from the lathe before commencing procedures.

To change the plug

Tools Required:

1 x Wire cutter
1 x Wire Stripper
1 x Philips Screwdriver

Procedure:

Step No.	Description
1.	Cut the original plug off by using the wire cutter. Strip off the black outer coating to expose the inner cables. **Note:** This will expose 3 wires; green, white and black. These wires are: • White – Neutral • Black – Hot • Green – Ground
2.	Strip the inner wires to expose enough copper fibres to secure onto the new 15A Plug. **Note:** Do not expose too much copper wire since it is a potential cause of electrical hazard.
3.	***The case of NEMA 6-15P plug*** Open the plug by unscrewing the Philips screws which holds them together, this will expose the terminals which the wire should be attached to. Rewire onto the new 15A plug according to the diagram (Next Page).

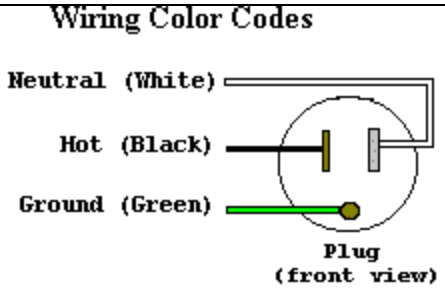


Figure 3: American Electrical Colour Code

Note:
The image is for a 10A rated plug. 15A rated plugs will have the Hot and Neutral terminals horizontal.

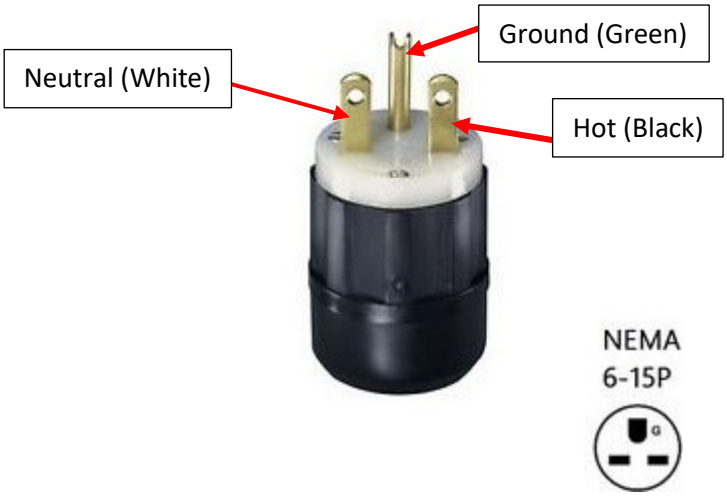


Figure 4: Sample image of NEMA 6-15P plug

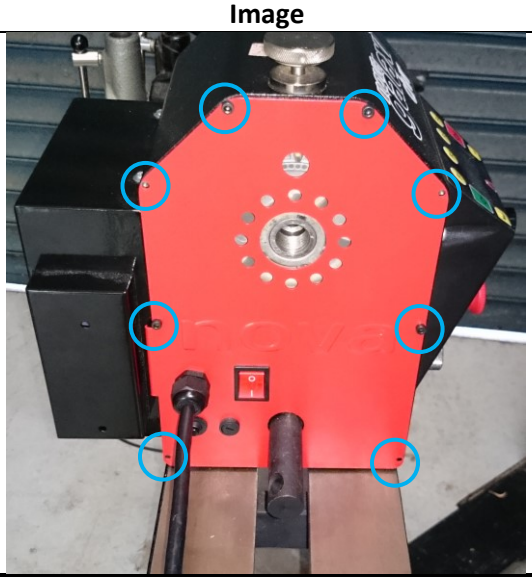
Once the plug is replaced, reassemble the plug with the Philips screws and test it on the new power supply.

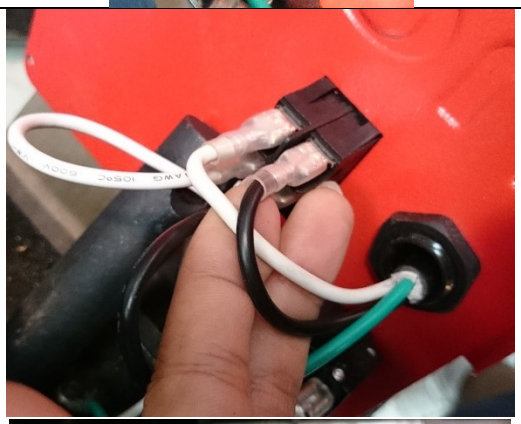
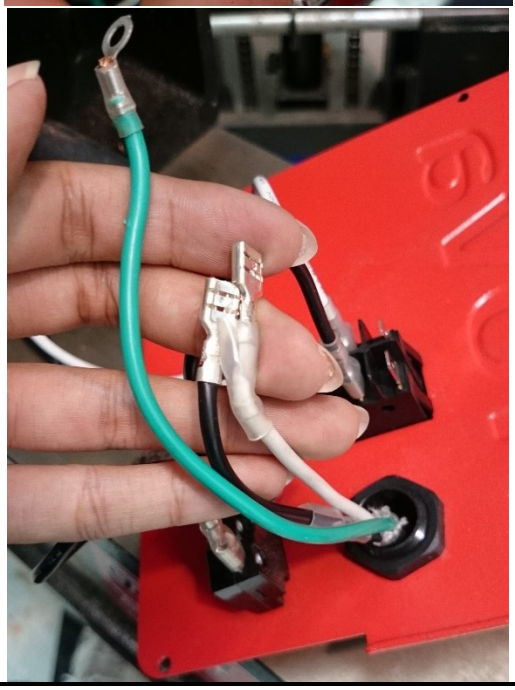
If in the case where you already have a cable compatible with the 220V power supply from other NOVA products (such as Voyager) and wish to replace the whole cable.

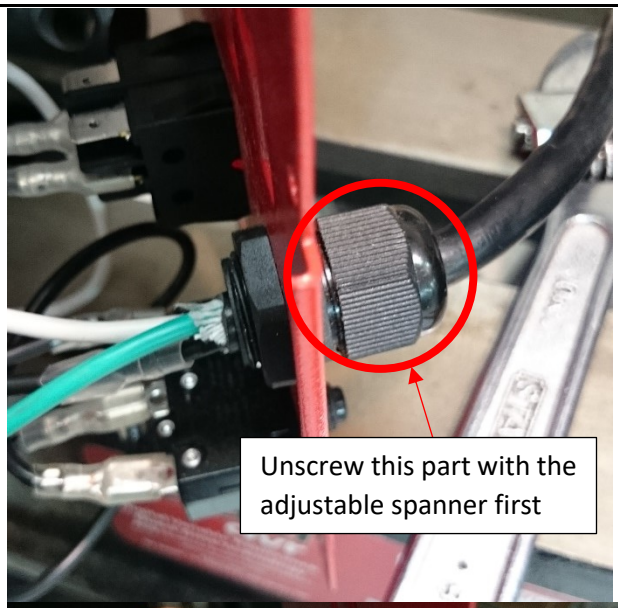
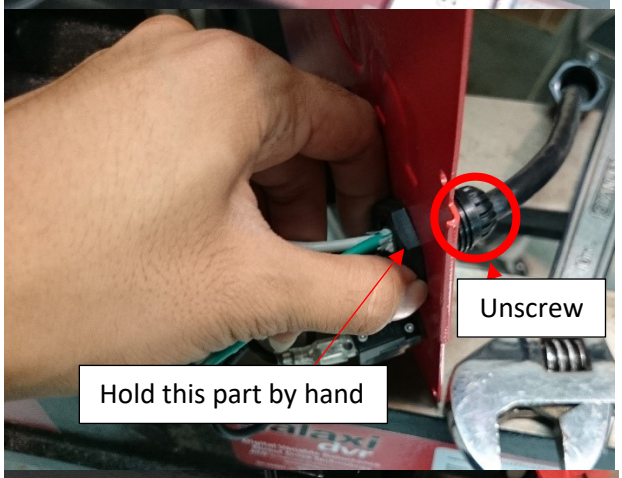
Tools Required:

1 x 3mm Allen Wrench
1 x Adjustable Spanner (Up to 20mm)
1 x Needle nose plier (optional)

Procedure:

Step No.	Description	Image
1.	Remove the hex screws with the 3mm Allen Wrench to remove the back cover of the headstock.	

2.	Disconnect the ground (Green) wire from the headstock by unscrewing the 3mm hex screw.	
3.	Pull out the black and white wires which is connected to the on/off switch. Note: This may require some strength therefore a needle nose pliers may be used to pull the connectors out.	 

4.	Disassemble the Cable gland to remove the cable from the back panel. 1. Use the adjustable spanner to unscrew the outer guard. 2. Hold the inner part by hand and unscrew the part on the outside. 3. Pull the cable towards the outside and it will come out with ease.	  
5.	Replace the plug and attach the cable gland. Reassemble the headstock to finish conversion to a 220V input.	

References:
Figure 3: http://www.pamia.org/techtips/ttewcodes.html