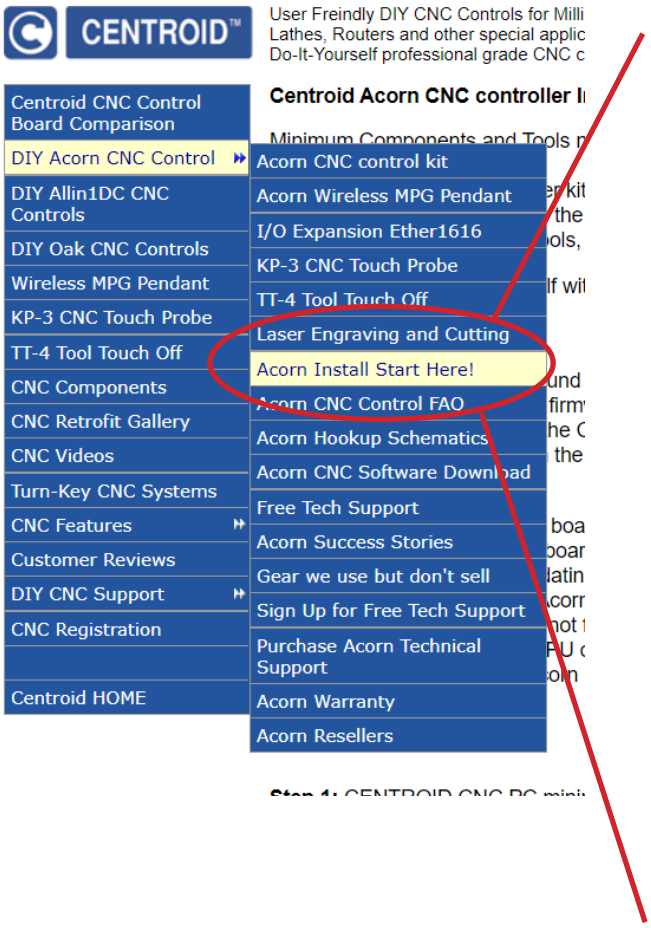
Thanks for purchasing a Centroid Acorn CNC control kit!

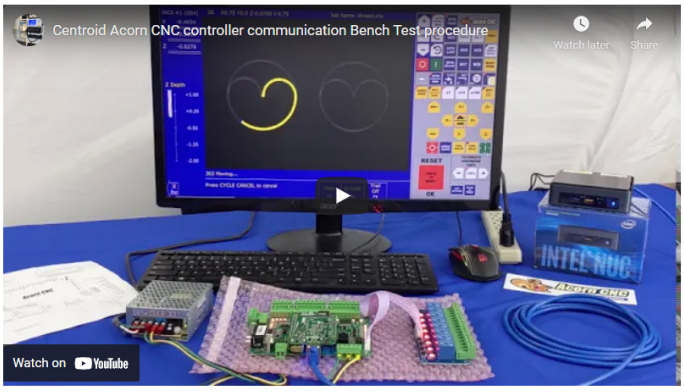
Start Here! https://www.centroidcnc.com/centroid_diy/acorn_quick_start_guide.html

This web page contains critical Acorn CNC information that is presented in order to ensure your success. Please review this web page before connecting anything to the Acorn CNC controller!

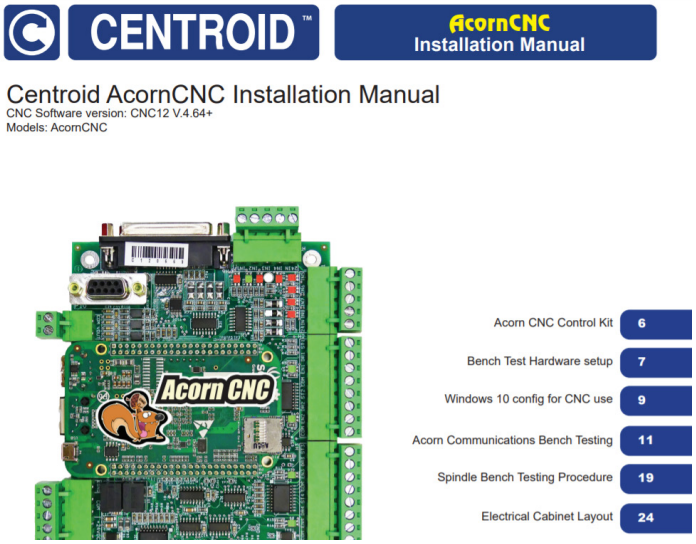


Step 2: Acorn Unboxing

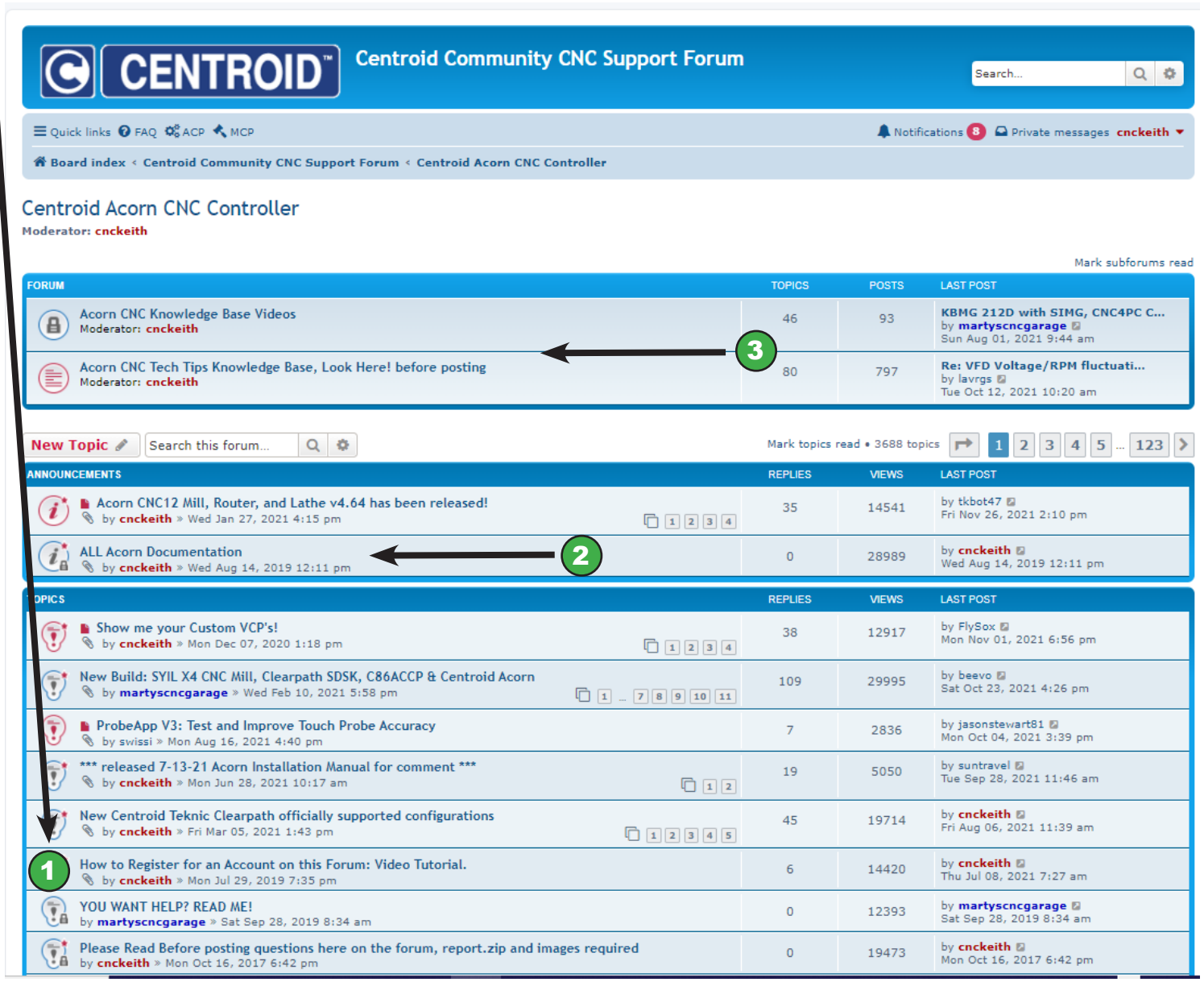
Step 3: Acorn Communications to CNCPC Bench Test: Always perform this test before connection anything to the Acorn CNC controller.
Corresponding Acorn Bench Test PDF



Be sure to download the acompanying Acorn Installation manual. Link is found at the top of this page as well.
https://www.centroidcnc.com/centroid_diy/downloads/acorn_documentation/centroid_acorn_install_manual.pdf



1 **SIGN UP FOR FREE CNC TECH SUPPORT at www.centroidcncforum.com**



2 Acorn Documentation contains all related Acorn documentation such as, Acorn Hookup Schematics, Probe Set-up guide, Axis pairing guide, Macro programming guide, Acorn Specifications manual, CNC12 Operator Manuals and more is located here. This is the go to page for all up to date Acorn information.

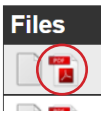
3 Be sure to become familar with the posts in the “Acorn CNC Knowledge Base Video” and the “Acorn CNC Tech Tip Knowlegebase” forum for detailed CNC setup information covering a wide range of common Acorn CNC technical support subjects. Valuable time saving information contained here.

All Centroid DIY CNC controller hookup schematics are located on this page.

https://www.centroidcnc.com/centroid_diy/schematics/pbrowse.php

Use the “Search Files” button to find the schematics you need. For instance “Acorn” results in a list of all schematics with the word Acorn in them.

Click on the PDF logo in the Files colum to open and download the PDF version of the schematic.

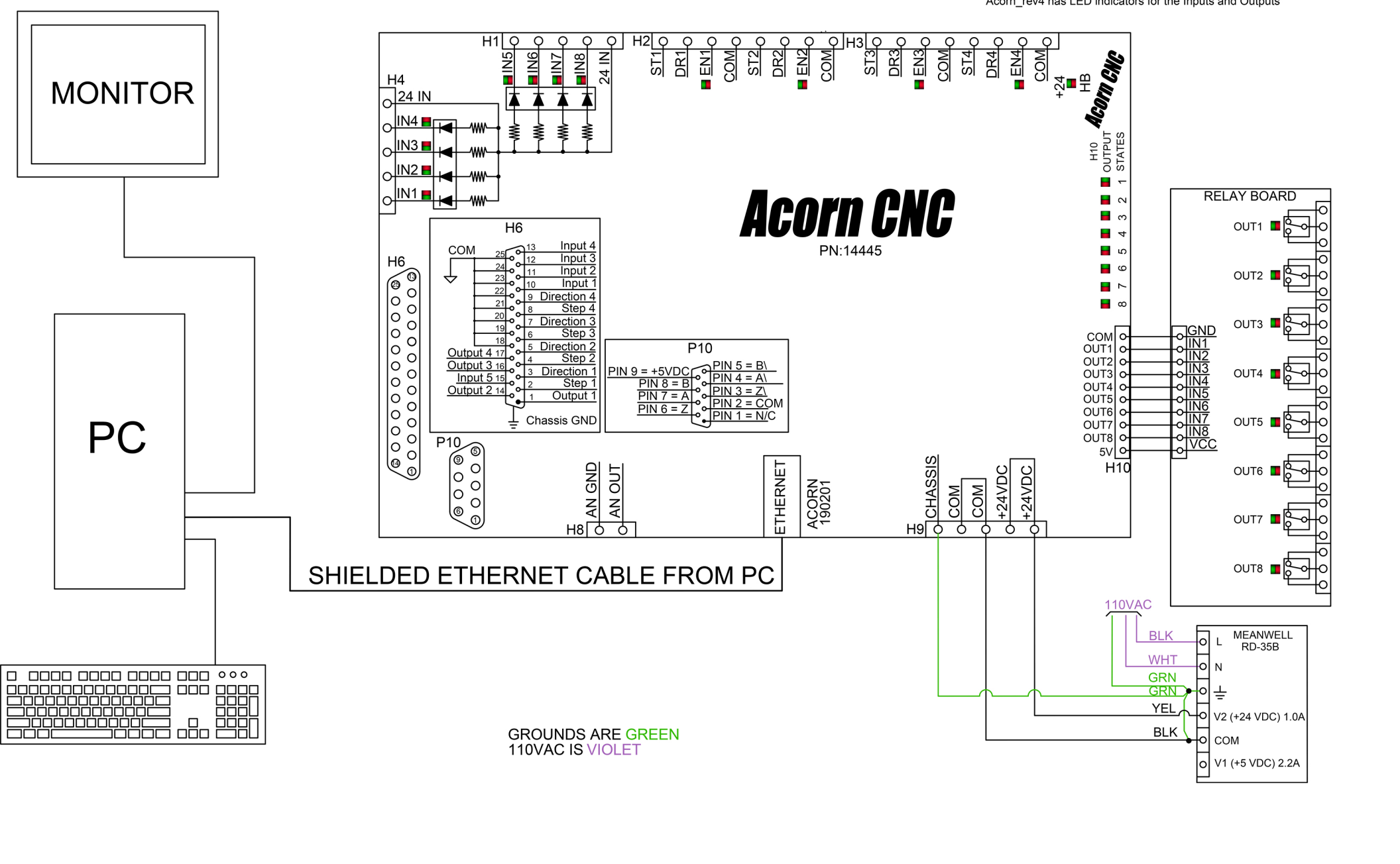


Click on the white file logo to download the AutoCad version of the same schematic.

Files	ID	R#	Date	Title
	S15114	1	11-22-2021	ACORN_rev4, THC_TX, THC_RX, PowerMax 45/65/85 Plasma, Float Switch and Breakaway
	S15113	2	11-22-2021	ACORN_rev4, GECKO GR214V STEPPER DRIVE
	S15109	4	10-26-2021	ACORN_rev4, THC_TX, THC_RX, PowerMax 45/65/85 Plasma, Float Switch and Breakaway
	S15108	4	11-01-2021	ACORN_rev4, THC_TX, THC_RX, PowerMax 45/65/85 Plasma, Torch Tip Touchoff, Breakaway and Secondary Float Switch
	S15107	3	10-25-2021	ACORN_rev4, THC_TX, THC_RX, PowerMax 45/65/85 Plasma,Torch Tip Touchoff and Breakaway
	S15106	5	10-26-2021	ACORN_rev4, THC_TX, THC_RX, PowerMax 45/65/85_Plasma
	S15103	1	09-24-2021	ACORN_rev4, LEADSHINE ELP-D400Z SERVO DRIVE
	S15102	1	09-16-2021	ACORN_rev4, DELTA ASDA-B2 SERVO DRIVE
	S15088	1	07-13-2021	ACORN_rev4, GECKO G320X SERVO DRIVE
	S15087	2	08-03-2021	ACORN_rev4, TT-4 TOOL TOUCHOFF
	S15079	1	05-10-2021	ACORN_rev4, Door Closed Safety Switch
	S15078	1	05-10-2021	ACORN_rev4, XCS-TE Door Interlock
	S15074	2	04-20-2021	ACORN_rev4, YASKAWA V1000, ENABLE-DIRECTION
	S15072	4	04-20-2021	ACORN_rev4, CLEARPATH SDSK SERIES MOTOR, CNC4PC C86ACCP INTERFACE BOARD
	S15065	2	04-20-2021	ACORN_rev4, Hall_Effect_RPM_Sensor
	S15063	2	04-20-2021	ACORN_rev4, COMCROW D-B500F LASER
	S15062	2	04-20-2021	ACORN_rev4, NEJE LASER
	S15061	2	04-20-2021	ACORN_rev4, OBT LASER

Acorn is an educational DIY (do it yourself) product. Centroid makes no warranties or claims of safety or suitability for any application. Any schematics or wiring hookup instructions presented on Centroid’s website or in the on-line forums are incomplete educational examples for discussion only. The user, DIY’er is creating his/her own CNC device, which may include dangerous voltages, powerful motors and resulting dangerous unexpected forceful motion of dangerous cutters and fast moving heavy machine parts.
If you are not qualified to accept all responsibility and/or you do not agree, DO NOT PROCEED.

Always follow this schematic and the online bench test installation videos BEFORE making any other connections.
www.centroidcnc.com/centroid_diy/acorn_quick_start_guide.html

Title: ACORN_rev4, BASIC POWER AND COMMUNICATION CONNECTIONS, Bench Test		
Date: 210420	Ver: 3	Drawn by: CEM
Filename: S14952.DWG		Sheet 1 of 1

How to tell the difference between Acorn_rev2, Acorn_rev3 and Acorn_rev4
Acorn_rev2 has FIXED green screw terminal blocks
Acorn_rev3 has REMOVABLE green screw terminal blocks
Acorn_rev4 has LED indicators for the Inputs and Outputs