

Minnesota WoodTurners Association

A LOCAL CHAPTER OF THE AMERICAN ASSOCIATION OF WOODTURNERS

AAW | AMERICAN ASSOCIATION
OF WOODTURNERS

Mini Newsletter No 17



The official mascot of 2020.
Washes his hands incessantly.
Always wears a mask.
Rearrange the letters in racoon
and it spells CORONA!



Instant Gallery

Martin Young



Pin oak bowl turned thin
from a freshly cut limb
and allowed to warp



Plymouth Sub Group

Zoom Meeting

Tuesday July 28, 7:00 pm.

Join Zoom Meeting

<https://us04web.zoom.us/j/79340837109?pwd=cVRSalZ4cWFvT0trNGVPU1E3N1NvZz09>

Meeting ID: 793 4083 7109 Password: 5pkmNS



The Fighting Walnut

“More American walnut is needed for airplane propellers and gun-stocks. During the four years’ test in the present war this wood has proved to be the best material for the manufacture of the foregoing articles. The Government needs all the walnut that can be secured. ‘Fight with your walnut trees’ is the new slogan of the Hardwood Section, Bureau of Aircraft Production, and the Small Arms Section, Ordnance Department. Every tree counts.”



July 7, 2020

MWA "Tuesday Turner's Tune-Up"

Dan Ernst – Wing Bowl Using the Skew



Dan Ernst was not going to be sucked into a wild and crazy shirt by Dan Larson



MWA "Tuesday Tune-Up"

Dan Ernst



Presents: Wing
Bowl by Dan Ernst



Wing bowls are perfect
projects for small lathes



Dan began by showing several examples
of wing bowls that he's made



MWA "Tuesday Tune-Up"

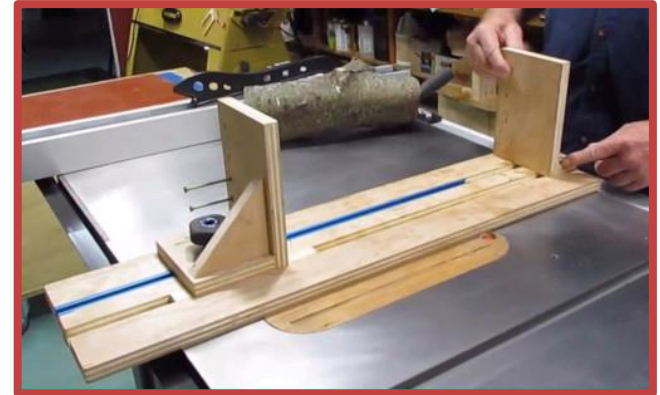
Dan Ernst



Dan likes to get very thin wings



He showed us how he starts with a small log



Dan then showed us a great sled for cutting the log directly through the pith safely on the bandsaw; fixed end, sliding end



He marks the pith on both ends and then cuts exactly through the pith



The pith is lined up so it will be cut through by the bandsaw for the length of the log



MWA "Tuesday Tune-Up"

Dan Ernst



Long screws are screwed into the log on each end just enough to hold it



The moveable end functions in a T-Track



Uprights should not be too high for your bandsaw

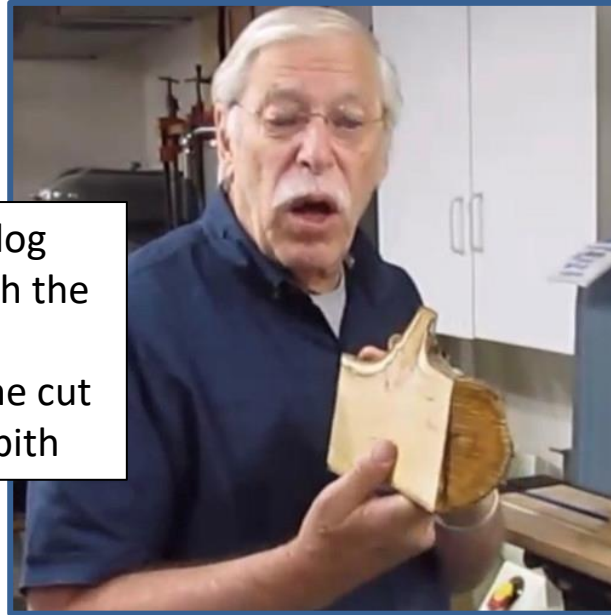


MWA "Tuesday Tune-Up"

Dan Ernst



Running the log safely through the bandsaw, controlling the cut through the pith



Mounted with the bark removed



Cutting the bottom-about 750 rpm



Starting the tenon



MWA "Tuesday Tune-Up"

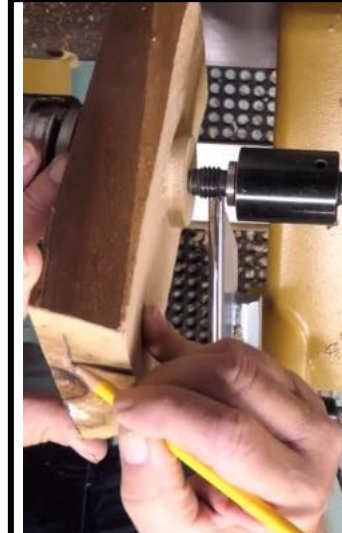
Dan Ernst



Tenon defined



Checking for flat bottom



Marking thickness of wing



Starting the wing



Cutting the wing and defining the bowl



Shear cutting the wing





Shear cutting wing



Handle is way down in your pocket.
Top wing of gouge "almost" touching

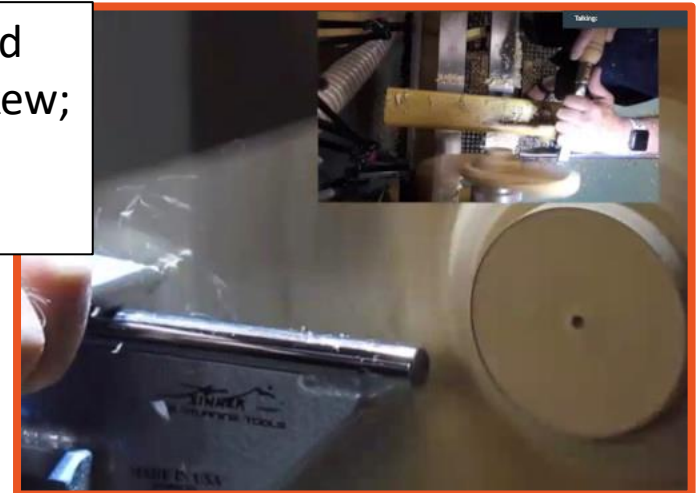


Cutting LOTS of air



Scraping the wing and
lots of air with the skew;
using it as a negative
rake scraper

Final shaping of
the bowl



Continued on next page



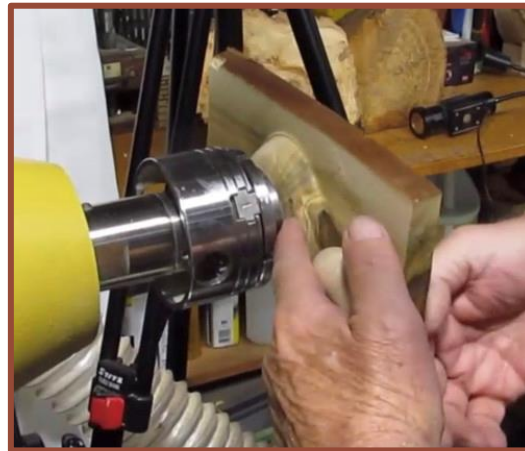
Skew scraped surface above the arrow



Scraping LOTS of air with the skew



Turning around to mount with the tenon



Make sure the chuck is tight around the tenon



Dan eyeballs and marks where the bowl would "emerge" through the wing



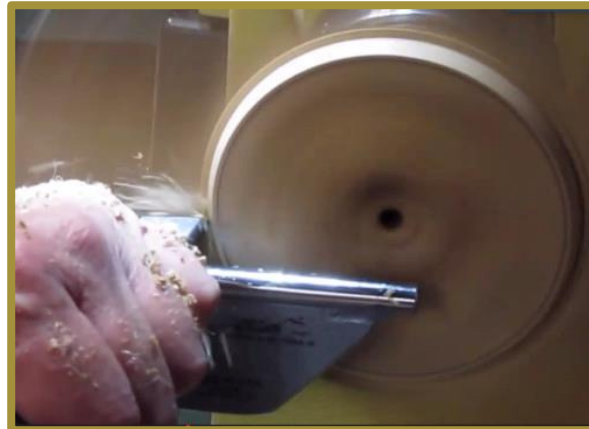
Defining the outside edge of the rim of the bowl; decide whether the bowl will have a rim



Skew scraping the top of the wing; just very little nibbles at a time



Great view of the skew through the wing



Finishing the junction of the bowl rim and the wing with the skew





Starting to hollow the bowl with a 40/40 grind, then a bottom feeder



Uh oh !!!!!



Another
REPLAY

Let's see what happened

MWA "Tuesday Tune-Up"

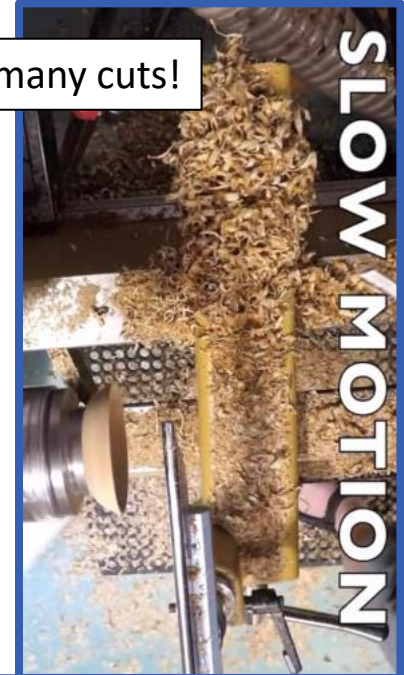
Dan Ernst



The next-to-the-last cut



The last cut



One too many cuts!



Dan has the wing



Frame for a Jefferson



Repaired!

Continued on next page



"DON'T TAKE THE LAST CUT!"



A wing bowl
without taking
the LAST CUT

Thanks, Dan.
Great demo!



Pres. Lee Luebke announcing that all the Tuesday Turner's Tune-Ups are recorded and when they are edited can be found on the website. Log into the MWA website > MWA Chapter > Blog > Archive > 2020.

More Covid-19 Thoughts

When this quarantine is over, let's not tell some people.

Home School Day 1: I'm trying to figure out how I can get this kid transferred out of my class.

It may take a village to raise a child but I swear it's going to take a vineyard to home school one.

Just wait a second – so what you're telling me is my chance of surviving all of this, is directly linked to the COMMON SENSE of others ?!

THANKS TO FRED SCHMOLL



Tips For Turners

Rolf Krogstad

Budget After-Market Speed Indicator for Your Lathe

When I started to make noises about wanting to retire, my wife was worried that I would get bored and hang around the house doing an impression of a carbuncle. In response, I drew up a list of things that interested me. One of the items on that list was woodworking. We live in Bloomington and the city has a wood shop at the senior center which, pre-Covid, was open 4 mornings a week.

After I retired at the beginning of 2019, I started to spend mornings at the shop. I tried making a number of things, but eventually I worked my way over to the lathe. After a couple of sessions, I was hooked. When a Nova Comet II midi lathe went on sale at Rockler in September I bought it and installed it in my shed.

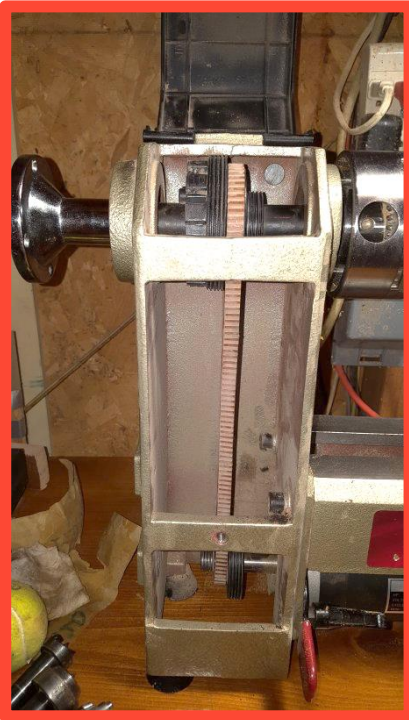
I would spend several hours a day out there learning to turn, as long as the temperature didn't dip below minus 10 degrees! I found a small electric heater would raise the temperature inside the shed by about 15 degrees. Good boots, gloves and jacket were required apparel during the winter!



Tips For Turners (cont'd)

Rolf Krogstad

In June of this year I discovered MWA and the AAW and I have been taking advantage of the Zoom meetings, videos and written material to pick up tips and learn more about the craft.



One thing I discovered is that I was always guessing the speed of the lathe, going by feel, and I thought it would be useful to have a digital readout. The lathe does have painted indicators around the speed control which give approximate speeds, but I found it very inconvenient.

My lathe is variable speed and uses a belt to manually switch between three ranges: slow, medium and fast.



Tips For Turners (cont'd)

Rolf Krogstad

I decided to do some internet research and discovered there were several types of tachometers (aka, tachs) but the style that seemed appropriate for my need is one that uses a “Hall Effect Sensor”. This is a simple solution: mount a magnet on the shaft of your motor, move the sensor to a distance of about ¼” to 3/8” and every time the shaft turns a pulse is registered by the sensor and the speed in RPM appears on the display.



So I went onto Amazon, eBay is another option, and searched for “led tachometer hall proximity switch sensor” (do NOT include the quote marks in your search) and found a number of options at less than \$20. If you look carefully at the bottom of the photo you will see a round disk attached to the sensor. That is the magnet which will be attached to the spindle of the lathe.



Tips For Turners (cont'd)

Rolf Krogstad

When my order arrived from Amazon it was exactly what you see in that photo. A display with a five-wire cable, a sensor with a three-wire cable and a magnet ... but no wiring diagram! The back of the display does indicate the power supply voltages required, where the sensor wires attach and where the positive lead from the power supply attaches, but nothing about where the negative lead from the power supply needs to be attached.



The picture isn't very clear, but if you look closely it does indicate where the sensor wires should be attached.

I did some more digging on the internet using the Google search engine and found a photo with a similar device which indicated where the negative lead should go. I wrote the details on a piece of tape and attached it to the back of the display so it wouldn't get lost or forgotten

Tips For Turners (cont'd)

Rolf Krogstad

The circuit is designed to be fed with a range of 8 volts DC to 24 volts DC at only 30 milliamps. So I found an old 9 volt DC wall wart in a junk box ...



...and pig-tailed the sensor, display and power supply wires as required, securing them with a dab of solder and wrapping the individual connections with electrical tape. Here is the pin-out of the five contacts on the back of the display:

Pin 1 – Brown and positive (+VDC)

Pin 2 – negative (-VDC)

Pin 3 – Blue

Pin 4 – no connection (NC)

Pin 5 – Black

One thing I discovered about this type of tach is that it will not work if the magnet is mounted incorrectly. If you look at the sensor, the top is the part that detects the presence of the magnet.

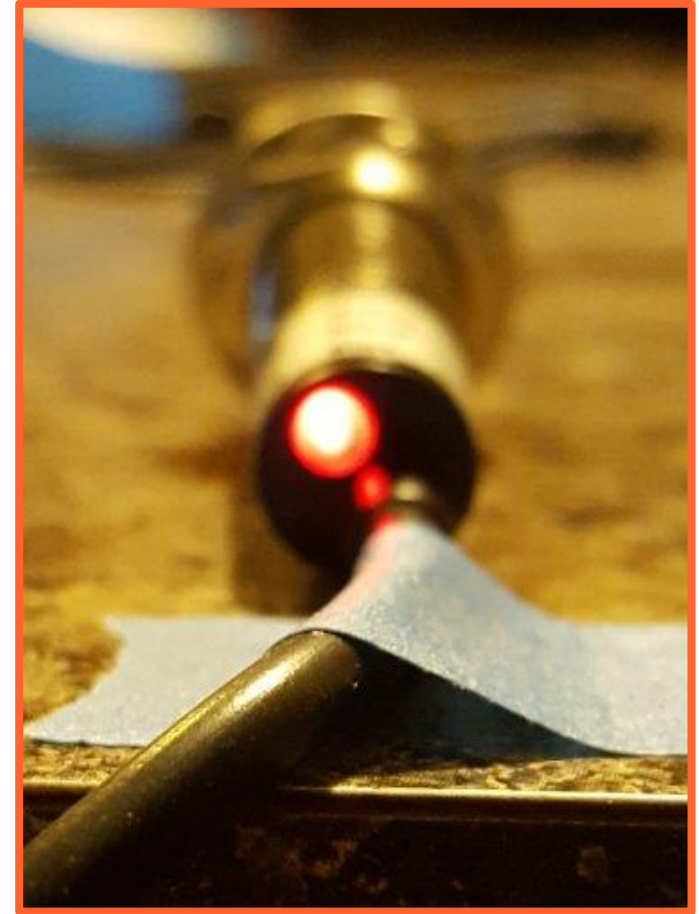
Tips For Turners (cont'd)

Rolf Krogstad

The sensor also has an LED (red light) on the bottom ...



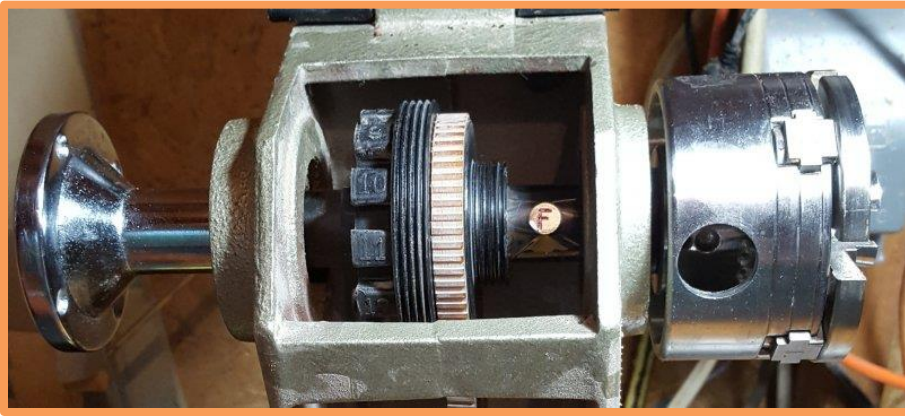
... which will light brighter if the magnet is sensed. So I took the magnet and placed it about ¼" from the top of the sensor and looked at the LED. No change. I then flipped the magnet over and held it close to the sensor. This time the red light was brighter. I took a magic marker and put an "F" for front on the side that registered on the sensor and a "B" for back for the side I would place against the spindle of the lathe.



Tips For Turners (cont'd)

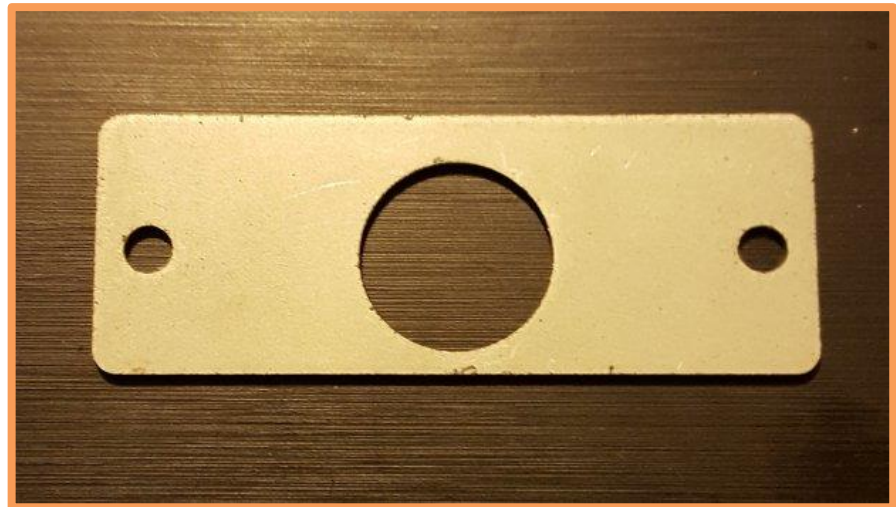
Rolf Krogstad

I couldn't wait to try it out!! So, I examined the lathe and decided that the best spot was to place the magnet on the spindle inside the belt enclosure. I placed the "B" side of the magnet against the spindle with the "F" side facing out.



I took the sensor with one hand and, careful not get my hand or sensor near the belt, turned on the lathe and put the tip of the sensor near the magnet. Yes – it worked!!

I then dug through another junk box and found a piece of metal with a hole which fit the diameter of the sensor perfectly.



Tips For Turners (cont'd)

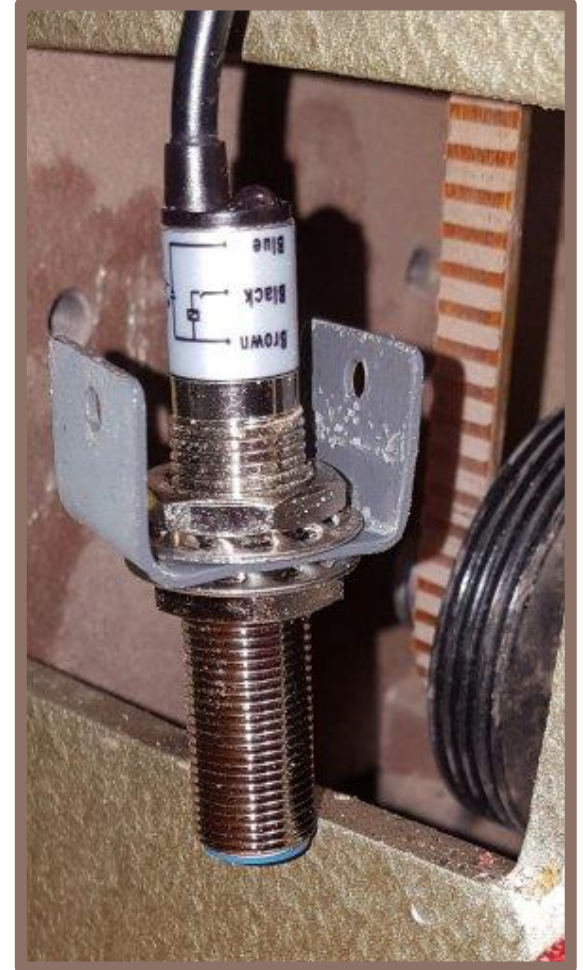
I put it in a vise and bent the edges so it would fit safely inside the belt enclosure ...



... and then attached it to the sensor using the washers that were included with the purchase

Next, I got my hot glue gun and tried to glue the bracket to the inside wall of the belt enclosure. No luck, it just came right off. I took some fine steel wool and scrubbed the wall a bit and tried again. This time the glue held. Another thing I could have tried is acetone, as it would remove any oily residue on the metal, but the steel wool did the trick.

Rolf Krogstad



Tips For Turners (cont'd)

Rolf Krogstad

Then with more hot glue I tacked down the cable that goes from the sensor to the display. I didn't want the cable to get caught up in the belt or I could have real problems!



I now turned on the lathe to test it out. It worked great! I gradually increased the speed to about 1600 RPM when all of a sudden ... Plink .,, the display was suddenly reading 0000! The “Plink” was the sound of the magnet hitting something after flying across the room!

Ten minutes of searching later I finally found it, attached to the underside of a tine of an old metal garden rake!

So, it is worth noting, it is necessary to affix the magnet to the spindle with something! I used clear packing tape so the photo would clearly show the magnet and its “F” marking. Hot glue would be another, possibly better, option.



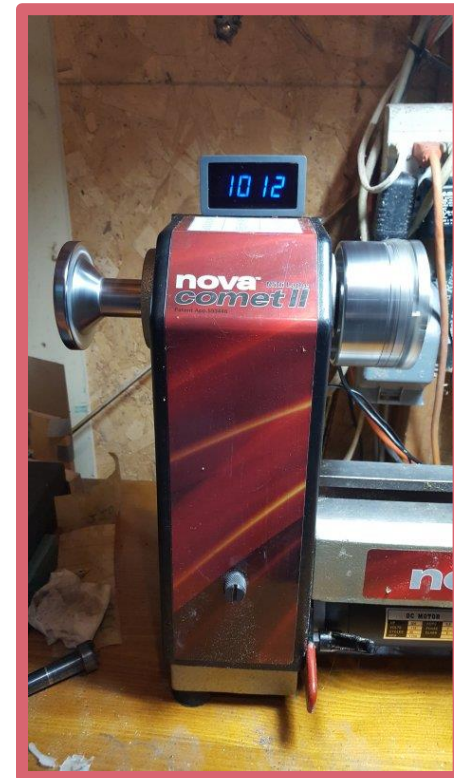
Tips For Turners (cont'd)

Rolf Krogstad

The final step was to take some double-sided tape and attached the display to the top of the lathe. Here is the lathe running and showing the RPM of the spindle. Note, there is about a three second delay after changing speeds before the reading on the display stabilizes.

Also, the speed displayed is the speed of the magnet. Because of the laws of physics, that speed will be higher than the outside edge of the wood which you have mounted on the lathe. In fact, you could prove it. Before installing the sensor, tape the magnet to the outside of your bowl blank and hold the sensor by hand to get a reading.

Then, without changing the speed control, install the device as described and compare the two values. Too bad I didn't think of this experiment until after I had permanently mounted my device.



Tips For Turners (cont'd)

Rolf Krogstad

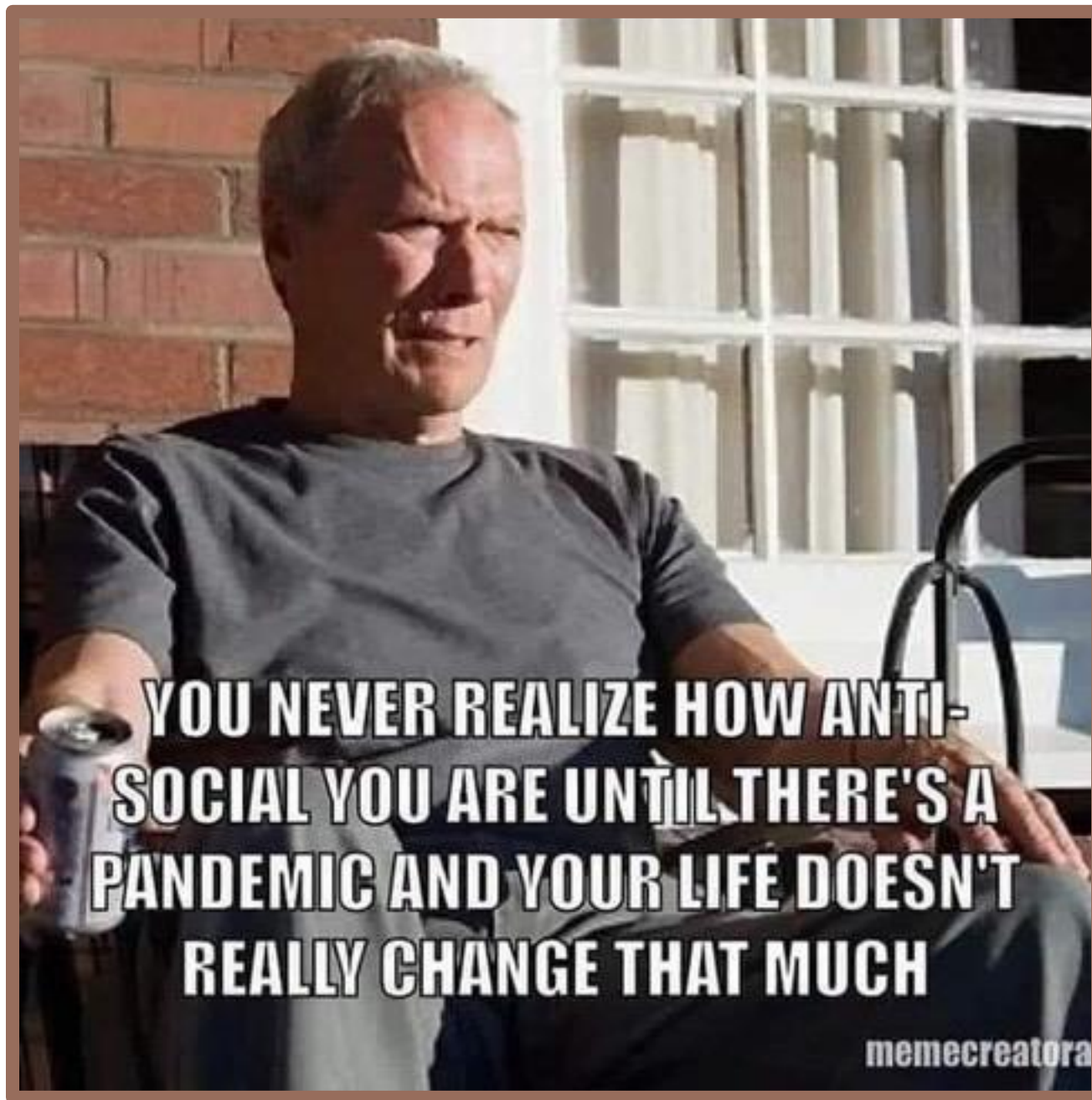
Just in case the tach should die on me at some point in the future, I created a table of values as measured by the tach. The columns correspond to the belt positions and the rows are the indicator arrows (see Image 2) on the faceplate of the variable speed control.

This was a fun project and I am sure I will find it very useful. It took a lot more time to write up this How-To document than it did to install the tachometer on my lathe. I have been a ham radio operator and electronics enthusiast since I was 15, so this was a sort of marrying of the two hobbies. I can't wait to get back out to the shed and do more wood turning!



If your lathe does not display RPM, I hope you find this article useful to upgrade your machine ... for as little as \$20, including shipping.





MWA Demonstrations Since July 2017

Warren Gerber suggested that I incorporate an easy way to locate a previous demo that has been documented in the newsletter since July 2017. No one has said they don't like it, so I'll continue.

Mike Rohrer, Editor

<u>Newsletter</u>	<u>Demo</u>	<u>Demonstrator</u>
July 2017	Hollowing for Embellishment	Gary Mrozek
Aug 2017	Turning & Decorating a Platter	Jeff Luedloff
Sep 2017	Bowl Coring	Neil Robinette
Oct 2017	Traditional Platter, Viking Bowl	Glenn Lucas
Oct 2017	Natural Edge Bowl	Bob Meyer
Nov 2017	From Tree to Bowl	Dan Larson
Dec 2017	Turning Ornaments	Jim Jacobs
Jan 2018	Making a Pendant	Alan & Lauren Zenreich
Feb 2018	Spindle Turning/Milk Paint	Linda Ferber
Mar 2018	Chain Saw Safety & Techniques	Steve Hagen
Apr 2018	Lidded Boxes	Steve McLoon
May 2018	Hollow Forms & Platters	Trent Bosch
	Platters & Bowls	Mike Mahoney
June 2018	Travel Mug	Greg Just
July 2018	Log Preparation & Sawmill	John Enstrom
Aug 2018	Squarish Platter	Mike Hunter
Sep 2018	Pens	Ed Mielech & Rick Auge
Oct 2018	Safe & Comfortable Turning	Eric Lofstrom
Nov 2018	Finishing	Mark Palma
Dec 2018	Finials	Steve McLoon
	Lefse Sticks	Jim Jacobs
	A Shop	Todd Williams
	Handles	Tim Heil

<u>Newsletter</u>	<u>Demo</u>	<u>Demonstrator</u>
Jan 2019	Scandinavian Inspired Bowls	Dan Larson
Feb 2019	Segmented Turning	Curt Theobold
Mar 2019	Peppermills	Tom Sciple
Apr 2019	3-Legged Stool	Keith Gotschall
May 2019	Baby Rattle with Captive Rings	Gary Mrozek
June 2019	Spheres & Embellishments	Steve McLoon
July 2019	Wood-Mizer Portable Sawmill	John Enstrom
Aug 2019	Finial Box	Cindy Drozda
Sep 2019	Spalting	Seri Robinson
Oct 2019	Rings True to Life	Phil Holtan
Nov 2019	Be More Creative	Beth Ireland
Dec 2019	Holiday Ornament	Bob Meyer & Mike Hunter
Jan 2020	3-Pointed Vase/Box	Tom Sciple
Feb 2020	Long-stem Natural Edge Vessel	Rudy Lopez
Mar 2020	Hollow Form	Lyle Jamieson
May 2020	Shop/Multiple Topics	Mike Mahoney
Mini # 11	Bowl Turning. Part 1	Dan Larson
Mini # 12	Bowl Turning. Part 2	Dan Larson
Mini # 13	Christmas Bell Ornament	Robin Costelle
Mini # 13	Irish (Glenn Lucas) Platter	Dick Hicks
Mini #15	Log Processing Center	Lee Tourtelotte/Dan Larson
Mini #16	Coring	Dan Larson/Dan Ernst
Mini #17	Wing Bowl	Dan Ernst



For Sale - Birch

I have several large thick trunk-like pieces of birch that may be suited for uses beyond firewood. Please give a call or send a note and I would be happy to provide further info.

Peter Skjervold (612-462-2252)

peter@pskjaz.com



For Sale



I am now offering a new style bead box kit.

These have the body and top assembly ready to go on the lathe. Designed for the intermediate wood turner.

Total cost of \$25.00 includes shipping to your door.

Can accept checks or Pay Pal.

Contact Jim Jacobs

woodmanmn@aol.com

or 651-497-1309



Member Help Line

The club is setting up a "Member Help Line", the purpose of which will be to answer questions /give advice/ and help educate our membership. Maybe you're a beginner looking for advice on what to buy. Maybe you have questions on chucking. Maybe you have sharpening questions. We would like more members to volunteer for our Member Help Line. If you would like to be "on call" please contact Mike Rohrer at mdrprof@gmail.com with your phone #, email address, area where you live, areas you'd be willing to help with, and your name will be added to the list.

Name	Phone	Email	Areas of Turning	Location
Mike Rohrer	612-276-9556	mdrprof@gmail.com	bowls, boxes	South Mpls
Steve Miller	715 821-8726	ssmiller920@gmail.com	all types, light on segmenting	River Falls, WI
Lee Tourtelotte	612-670-1874	leetourtelotte@icloud.com	all types, beginner, advanced	South Mpls
Warren Gerber	651 403 2883	xlwalleye@gmail.com	Bowls	Mendota Heights
Jim Jacobs	651-497-1309	woodmanmn@aol.com	beginner/advanced, segmenting, skews	Hastings
Dick Zawacki	507-744-5748	dickzawacki@gmail.com	general, bowls, wood carving	Northfield
Mike Lucido	651-738-2551	mike.s.lucido@gmail.com	general woodturning	Woodbury
Bill Campbell	715-338-2634	wm.e.campbell@uwrf.edu	general woodturning	River Falls, WI
Mark Kelliher	651-636-8678	markandkathy007@comcast.net	general woodturning	Arden Hills
Todd Williams	651-274-4658	toddwilli@comcast.net	general woodturning	Lake Elmo
Bob Meyer	651-483-6187	rjmbobco@comcast.net	bowls, ornaments, sharpening, gen'l.	Lino Lakes
Dick Hicks		rbhicks@rbhicks.com	platters, spindle work, bowls	Zoom from shop
Steve Mages	952-544-5286	smages@juno.com	general woodturning	Minnetonka
Neil Robinette	763-639-1085	northsideturners1@gmail.com	sharpening, tool control, turning vs budget	Brooklyn Park
Andy Levesque	651-769-4070 TEXT	andy.m.levesque@gmail.com	resin/epoxy casting, hybrid turning, vacuum stabilizing, CNC & laser engraving	Lindstrom
Rusty Ogren	612-990-4857	Rick.Ogren@consolidated.com	resin questions, crack filling	Plymouth



Editor's Notes

This is the 17th Coronavirus Mini Newsletter featuring the **Tuesday Turners' Tune-Up**, Wing Bowl Using a Skew, presented by Dan Ernst with a surprise ending.

These TTTs are fun and useful and next week's, July 21, will be at **7 pm**.

New member, Rolf Krogstad, wrote an interesting article about devising a tachometer for his new lathe so he could tell how fast it was turning.

Could use more Instant Gallery pictures.

Stay safe; have fun isolating yourself in your shop. I'm sure you have multiple masks; wear one when you're away from home.

Mike Rohrer, Editor mdrprof@gmail.com



PLEASE TAKE OUT YOUR CLOTHES FROM CLOSET REGULARLY, AIR THEM AND ALLOW TO STAND IN SUNLIGHT. RECENT STUDIES SHOWS THAT IF CLOTHES ARE KEPT IN CLOSETS OVER LOCKDOWN THEY SHRINK. 🤔

