

# NEWSLETTER

VOLUME VIII NUMBER 11 NOVEMBER 1990

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## PRESIDENT'S MESSAGE

Don't forget to bring in your Toys-For-Tots production for the November meeting. If you are like me you have waited till the last minute again. Some how I have got to plan things better next year!

The wife and I went to the Northport, AL Kentucky Craft Festival last Saturday (October 20) for the first time. Dale Lewis had a nice booth that included a number of the "Show & Tell" items he has shown at guild meetings including the table he brought last month. He found a name for that table, "Miss Lilly I Love Your Legs". The finish he used was the 1-2-3 formula. (If you don't know what 1-2-3 is you missed the finishing seminar.) Kentucky must be one of the largest craft shows in the State. I didn't count the number of exhibitors but it must have been close to 200.

Would any one be interested in hearing some Guild professionals tell how to make a go of craft shows? I know we have at least 5 members that sell at various shows. Let me know if there is any interest and perhaps we can persuade them to give us a program on the subject next year.

Don't forget the Christmas Party 6 PM Saturday, December 8 at the Helena Methodist Church. Cook up your favorite dish and bring it along for everyone to enjoy for dinner. There will be door prizes as well as a prize drawing for the toy makers. Everyone in the guild is welcome whether you made toys or not.

Jim Caldwell

## LAST MEETING - OCTOBER 1990

The program for October borders on being as unusual as any we have had in recent years. Don Holcomb, an electric motor expert, delivered a dissertation on the hows and whys as well as the dos and don'ts of applying electric motors to the work you wish to accomplish. Many of us were left speechless by the many variations and applications Mr. Holcomb related to us. Your editor doesn't feel qualified to quote or describe in detail the technical information that seemed to flow effortlessly from Don's presentation. We appreciate his devoting an evening of his time to us.

## DOOR PRIZE

We suppose the old adage "them that has, gets" was further confirmed since the fellow who has just about everything, Ivan Kronberg, was drawn and now has another honing stone to sharpen his carving chisels. We keep reminding all of you that you must sign in upon arrival to get your name drawn, so do it.

## TOYS FOR TOTS

Ben Neighbors, chairman, made his usual appeal in his eloquent manner for us to quit fooling around (with our time) and get our toys completed so as to bring them to the November meeting — that is our next meeting. If for some, or any, reason you

don't get them ready by November 8th, the next meeting, then bring them to the Christmas party on December 8th. We expect to have the Toys for Tots representative present at the Christmas party as our guest and he (or they) will take the toys with them after the party. We expect to bring one of each type toy from Ronnie's to the party so all the wives may see what has been done this year. After dinner at the party, there will be prizes awarded the participants in the TFT program this year — a prize to the member who makes the most toys, and for all members participating there will be a drawing for prizes. Names of all participants will be put in the hat, from which the winners will be drawn. Winning a prize should not be the reason we make the toys, however. Even in this time of plenty there are many who have nothing. It is for these the Toys for Tots was begun, and our Guild has a seven year history of offering our assistance. We would like this to be the largest pool of toys yet contributed by our folks. We had between 700 and 800 last year, and Ben says he won't settle for less than 1,000 this year. You still have time so, please, get to it.

## CHRISTMAS PARTY DECEMBER 8, 1990

Mention was made in the Toys for Tots article herein about the Christmas party. Just in case you might not get your December Newsletter by party time we will mention it here. Each family should bring

enough covered dish food for themselves. The Guild will provide the coffee, tea and bread. It will be held at the Helena United Methodist Church at 6:00 P.M. In addition to the TFT prizes, our advertisers are generous with gifts to be distributed to us by drawing. Then there are our benefactors, Ronnie and Sue Acton, who are so generous with additional gifts which are distributed by drawing. With the fabulous food we always have, the gifts from all around, and the wonderful fellowship we have, how can we lose by attending? Directions to the church: The road in front of Acton's is Highway 17. If you are coming from the East go past Acton's about three blocks and turn right on Highway 58. Conversely, if you are coming from the West turn left on Highway 58 (about three blocks before you get to Acton's) and go some six or eight blocks. The church is on the right, and being lighted, you can't miss it. We will repeat this in December's letter.

### WOODWORKER OF THE YEAR

This recognition was initiated in 1989 and resulted in Ivan Kronberg being so designated — a very popular choice. At the October meeting the ballots were taken, and we expect to announce the winner for 1990 at the Christmas party.

### OFFICERS AND DIRECTORS FOR 1991

The nominating committee, having done its work, nominated the following for office during 1991. The By-Laws require publication of the slate in advance of the election:

#### OFFICERS:

President	Jim Caldwell
Vice-Pres. (Programs)	Dale Lewis
Sec'y-Treas.	Roy Bates
Newsletter	Leonard Sanders

Alabama Woodworkers Guild Newsletter is published monthly for its members and other interested parties. Guild meetings are held monthly on the second Thursday at 7:00 P.M. at Acton Moulding & Supply Co. Information concerning the Guild may be secured by writing P.O. Box 506, Helena, Al 35080 or calling the Editor, Leonard Sanders, at 822-6876.

#### BOARD OF DIRECTORS:

Gene Benitez  
Frank Jones  
Mike Key  
Ben Neighbors  
Harold Phillips  
Bill Purson

#### EX-OFFICIO DIRECTORS:

Nelson Brooks  
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Officers are automatically members of the Board.

### SHOW AND TELL

This feature of our meeting each month is designed to let all of us know what some of us are making as woodworkers. We hope the members will receive inspiration and ideas to further their enjoyment of woodworking. Last month we had presented, by their makers: (1) a miniature replica of an old western post office building utilizing an old brass post office box door, (2) jewelry, (3) bowls, (4) a superb table, and (5) some toys. Bring your stuff on down, as we would like to know what you're making these days.

### NEXT PROGRAM NOVEMBER 8, 1990

Every once in a while we are treated to invaluable information we can use in our woodworking. This month is no exception. Our own Ivan Kronberg, Woodworker of the Year for 1989, will share with us a minute portion of his extensive knowledge of woods. Ivan doesn't come from these parts, originally. He is a native of Wakefield, Michigan (ever notice how those frozen Northerners work their way South, if they can?). Ivan is a graduate of Michigan College of Mining and Technology, or as it is now known, Michigan Technological University. He was associated with U. S. Steel for 32 years before retiring a few years ago. While with U. S. Steel he advanced through several positions and ultimately attained the position of Manager, Timber Properties. Now this isn't just local timber, we are talking nationwide timber. He was "it" with timber properties with U. S. S. After retirement he became associated with Seaman Timber Company as Assistant to the President, the position he holds today. If it can be known about wood, he knows it. We will be better off for having attended the November meeting to hear Ivan.

### ELECTRIC MOTORS

At the risk of telling you more than you really want to know about electric motors I thought I would try to shed a little more light on a few things discussed in last month's program.

The Birmingham Public Library has at least one good reference book on the subject. "Fractional and Subfractional Horsepower Electric Motors" by C. G. Veinott is a bit technical but does have some good wiring and line connection diagrams for various types of motors. I have included some of the more commonly used motor variations but most motors built in the last 10 to 20 years should conform to the NEMA standard.

### INDUCTION MOTORS

The NEMA color code is as follows:

T1 Red	T5 Black
T2 White	T8 Red
T3 Orange	P1 None assigned
T4 Yellow	P2 Brown

Connection diagrams for split phase and capacitor start motors are generally the same except that the capacitor element has to be connected in series with the T5 lead.

The P1 and P2 leads, if they exist, are associated with thermal protection of the motor. In many cases this is entirely internal to the motor.

The primary or run winding is almost always wound in the bottom of the stator slots. The auxiliary or start winding is wound on top of the run winding. The start winding may be wound with smaller wire and have fewer turns.

Many blower and fan motors especially the larger ones are designated "AIR OVER". They must have air blowing over the motor or it will over heat. Most often these are permanent split or capacitor run motors and may have connections for two or more speeds. They won't have a centrifugal switch to cut out the start winding. You can't use one of these motors to run a small lathe or other shop tool — they need that external fan for cooling. The color code is also slightly different. White is the common line connection with the other side connected to black for high speed, blue medium and red low speed. The capacitor connection is not so standard. Between brown and white on some, yellow and white on others or there may be two brown leads for a capacitor connection. Be careful with this!

Universal motors are brush type series wound AC/DC motors. They are widely used in drills, routers and sanders. For a given power rating they are smaller than induction type motors and provide high starting torque. The speed is controlled ONLY by the applied voltage and the load on the motor. Unloaded at rated voltage the speed will rise until rotational friction and fan loading balance the available torque. In a router motor this will be near 20,000 RPM. In a drill gear friction will limit the speed to a much lower value. Large series DC motors must have a governor or other

starting device or the speed will rise until the machine destroys itself. The starter motor in your car is another example of a series wound DC motor. As you have no doubt heard it can really wind up if the starter switch stays on after the throw-out disengages the fly wheel.

**SHARED POLE MOTORS**

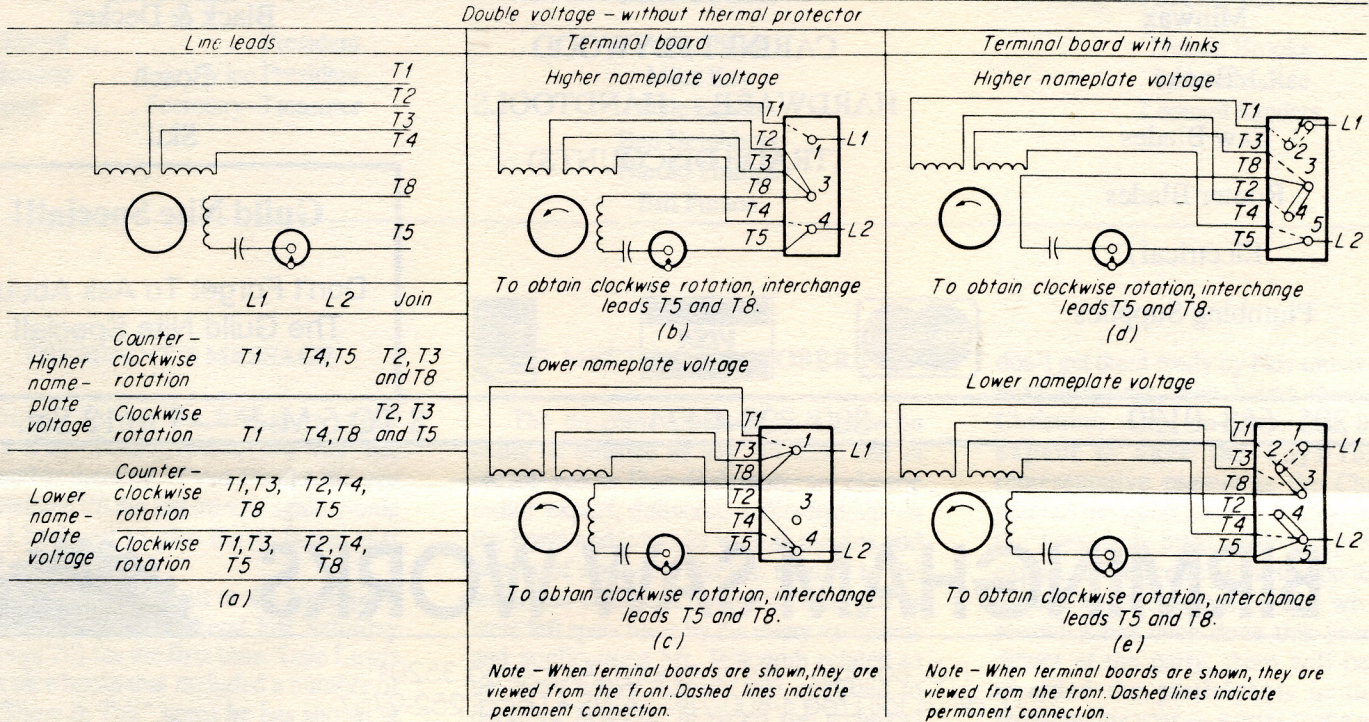
Many small fans use shaded pole type motors. Shaded pole motors have very low starting torque but a fan doesn't need much torque to start. The speed of a shaded pole fan motor can be varied by reducing the line voltage with a series resistor, inductor

or by a triac type light dimmer. Operating at a reduced voltage will not damage the motor. There is one problem with using a light dimmer — at low voltage settings the fan will not start. It is too easy to have some power on the fan with no rotation. This is not a good situation since the motor may need air movement for proper cooling. A triac does not change the frequency — they change the energy content of the applied power source. Do not use a dimmer control on other induction motors!

Good luck with that old motor!

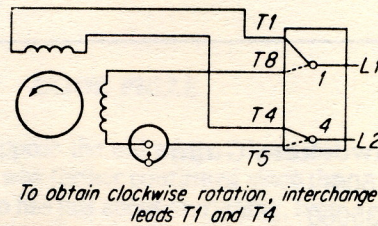
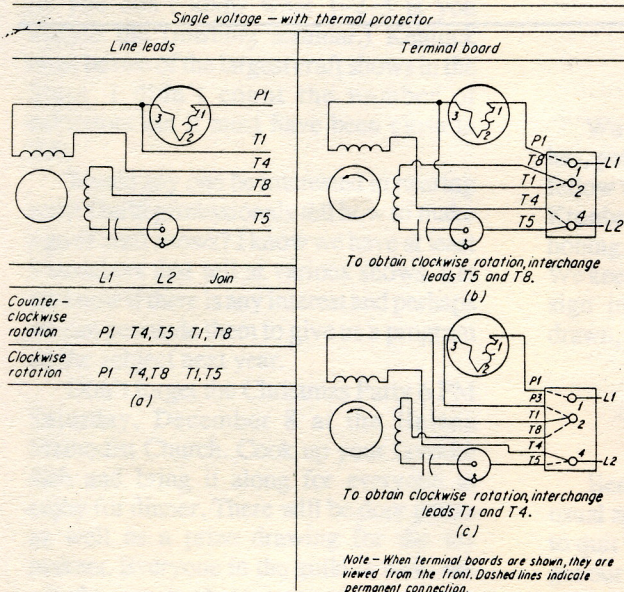
Jim Caldwell

Note - Motor starting switch shown in running position. All directions of rotation shown are facing the end opposite the drive.



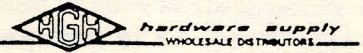
Wiring and line connection diagrams for dual-voltage reversible capacitor-start motors: with leads; with three-post and with five-post terminal boards. (From NEMA.)

Note - Motor starting switch shown in running position. All directions of rotation shown are facing the end opposite the drive.



• Schematic wiring and line connection diagrams for a reversible (either-rotation) split-phase motor with terminal board. Auxiliary winding is permanently connected to the back of the terminal board. (From NEMA.)

• Schematic wiring and line connection diagrams for single-voltage thermally protected reversible capacitor-start motors, using line leads or terminal boards. (From NEMA.)



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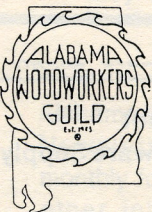
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