

# Première

by *Fulton*

## OWNER'S MANUAL

*Fulton*

FULTON MUSICAL INDUSTRIES

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FULTON ELECTRONICS 4204 Brunswick Avenue North • Minneapolis, Minnesota 55422 • 537-7076

Dear Friend,

I would like to take this opportunity to welcome you into our growing FMI family. Your purchase of the Premiere System is rewarding and encouraging for us because we know that you hear and appreciate what we are trying to accomplish.

The primary objective behind the development of the Premiere has been to build a system that is absolutely faithful to the sound of actual music, scaled to your listening room. This has required complete objectivity in listening and a desire for perfection in every phase of design and production. It has also required exacting attention to such details as transient purity, perspective, proper dynamic intensity, open, free flowing airiness, accurate re-creation of the correct tone structure, size, and vowel color of each individual instrument and voice, as well as the precise spacial imagery, sense of depth, thrust, balance and vitality we normally hear in live music. Countless hours of critical listening and exhaustive experimentation has transformed these concepts into a speaker system that has earned a unique position for itself among music lovers in the audio world.

The fine art of music is a large part of our lives, as I'm sure it is of yours, and we believe it is one of the most dynamic and expressive of the arts. Perfection is inherent in any art, and the art of music demands and deserves not only perfection in performance, but also in re-creation. For this reason every pair of Premieres we build must pass a stiff examination before shipment. Included is a rigorous mechanical inspection, an electronics check-out of every component, lead, wire harness, and soldered connection, a cabinet air and resonance test, a frequency response and distortion evaluation, a special power-on-demand sequence, and finally, the most demanding of all, a critical listening test. Every effort is made to assure you the highest quality workmanship and dependability.

Enclosed you will find an instruction manual that has been formulated to help you realize the full potential of your Premieres. Strict adherence to the suggestions therein will result in outstanding performance. Selection of only the finest, compatible electronics is also necessary to insure your complete satisfaction.

It is my sincere desire that these speakers will provide you with many years of rewarding listening experiences.

Cordially yours,

FULTON MUSICAL INDUSTRIES  
Division of Fulton Electronics

Robert W. Fulton, President

PREMIERE  
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**FULTON MUSICAL INDUSTRIES**  
 is pleased to introduce the exquisite  
**PREMIERE SPEAKER SYSTEM**

Awesome..perhaps even a bit frightening..A daring twist of the level control is sure to quicken the pulse of the most critical audiophile.

Performance specifications of the new Premieres are unequalled in the audio world..a musical reproduction of a quality never before achieved. A new standard of excellence!

**SPECIFICATIONS**

- Frequency response. . . . . 13 Hz to 80,000 Hz
- Crossover points. . . . . 39 Hz, 122 Hz, 425 Hz,  
2400 Hz, 8000 Hz, 26,000 Hz
- Impedence . . . . . 8 ohms
- Suggested amplifier power . . . . . .50 watts and up
- Speaker complement. . . . . .one 12" sub-woofer,  
one 12" mid-woofer,  
one 10" upper-woofer,  
one 8" mid-range,  
three special tweeters
- Level Controls. . . . . .mid-woofer, upper-woofer,  
midrange, three tweeters
- Fuses . . . . . .one amp tweeter, 3 amp woofer
- Wiring: single, bi-wire, and tetra-wiring capability
- Cabinet in rich American walnut
- Cabinet dimensions. . 60" high x 25" wide x 22" deep
- Shipping weight . . . . . 300 lbs each
- Warranty. . . . . .5 years

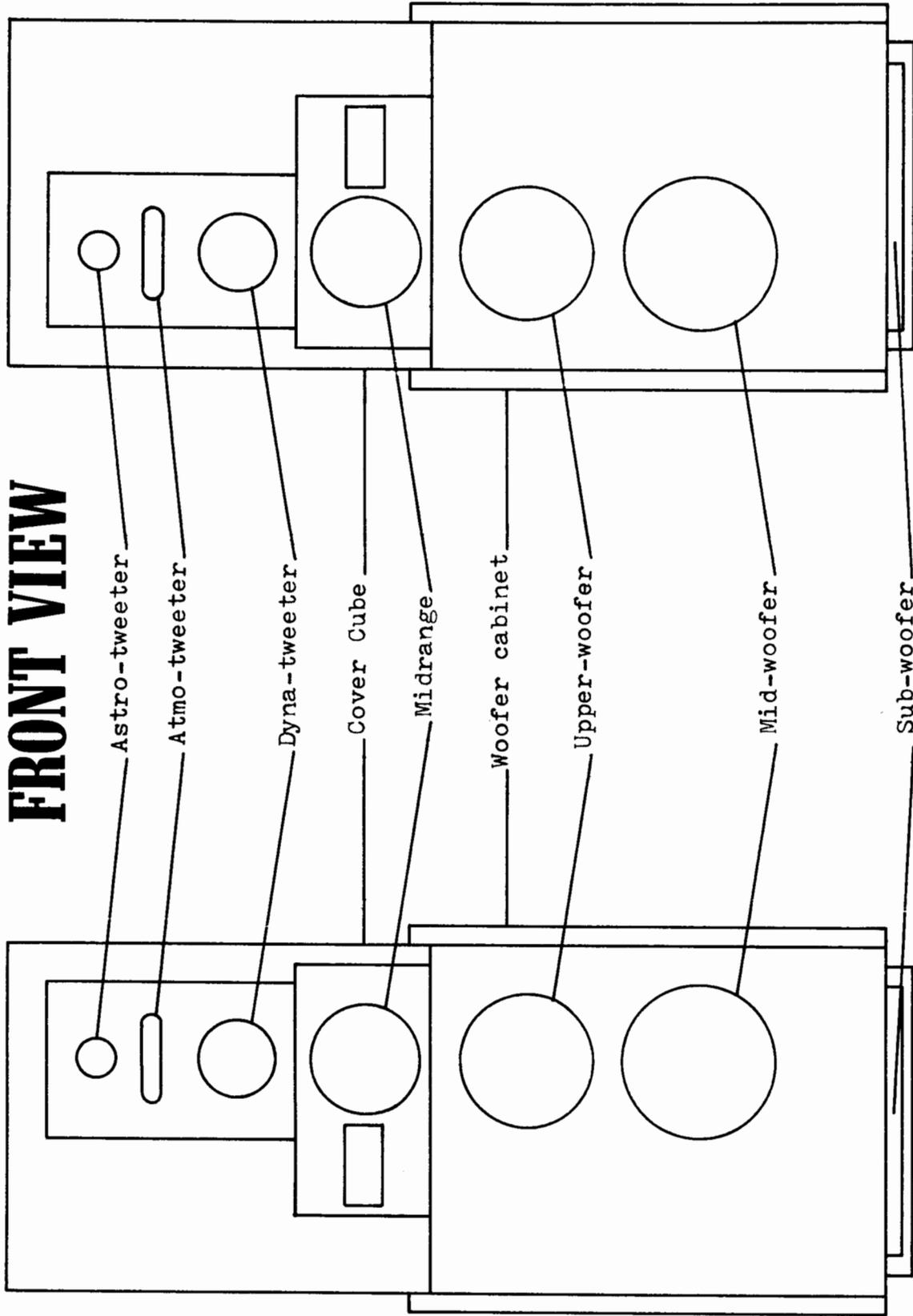
### SET UP INSTRUCTIONS

(Refer to FRONT and REAR VIEW diagrams on pages 4 and 5)

NOTE: READ COMPLETELY THROUGH INSTRUCTIONS BEFORE STARTING.

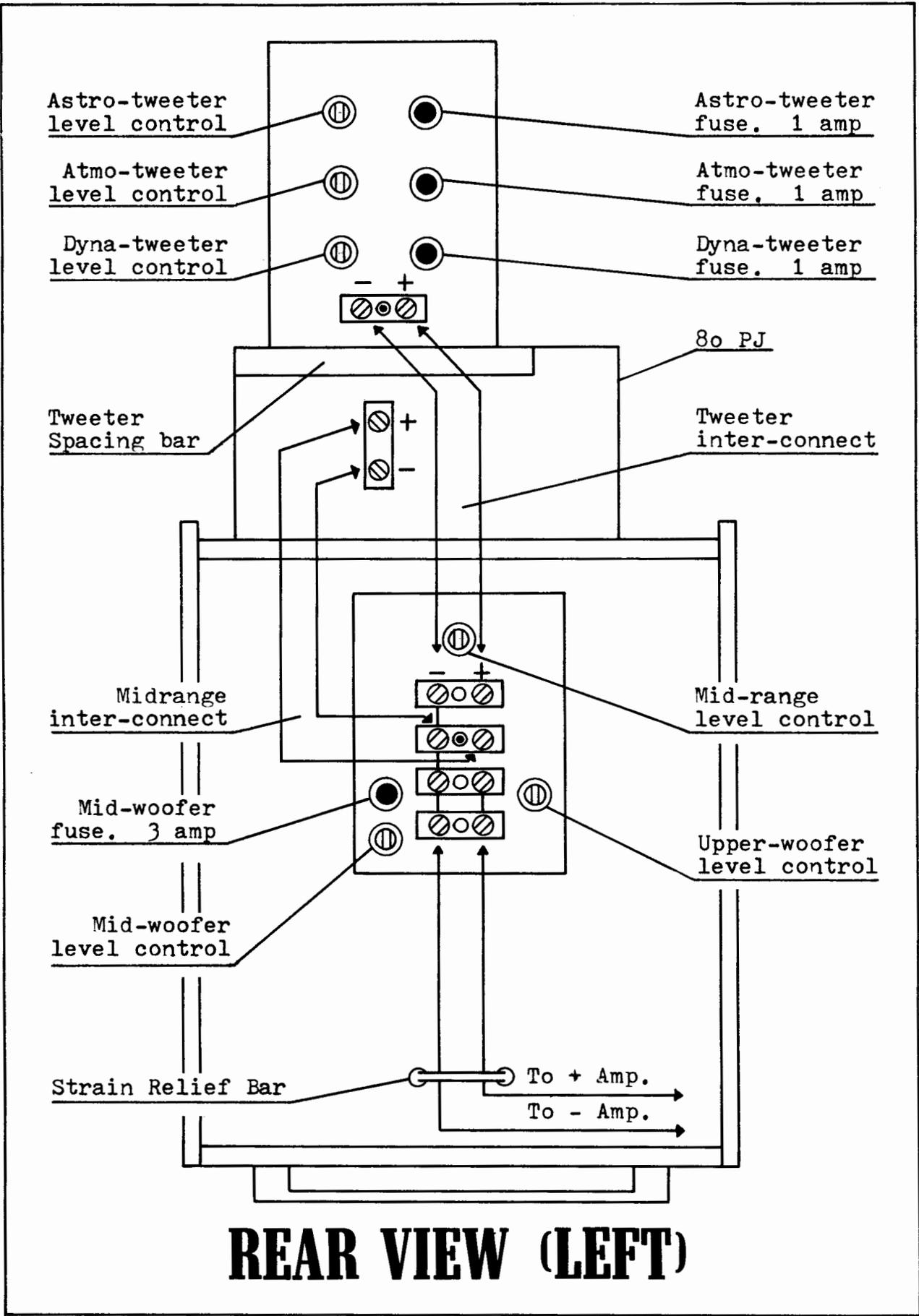
1. Unpack woofers. See unpacking instructions enclosed with packing list.
2. Unpack cover cubes. Place on top of woofers aligning front edges.
3. Unpack 80PJ and set it inside cover cube in front of alignment bar. Be sure the woofer is directly over the upper bass woofer by aligning bottom of 80 with edge of cover cube alignment bar.
4. Place tweeter module upright on top of 80. Push forward until alignment bar rests against 80. Move it to the left or right until the alignment bar is flush with the inside (bottom) surface of the 80.
5. Connect brown interconnect leads from top (first) terminal strip to tweeter module. Note polarity, (i.e., positive to positive, negative to negative.) The interconnect leads are color coded for easy identification of polarity.
6. Connect brown interconnect leads from second (from top) terminal strip to 80PJ. Note polarity.
7. Attach strain relief bar near bottom back of woofer. Use screws and holes provided. (See rear view diagram). Feed the Fulton Gold Speaker Cable up through the strain relief bar and connect to the bottom terminal strip. Note polarity.
8. Connect the Fulton Gold Speaker Cable to the outputs of the power amplifier. Note polarity. Special banana plug connectors are installed on one end of the Gold wire for amplifiers equipped with this type of receptacle. If your amplifier has only screw terminal outputs, remove the banana plugs and connect Gold wire directly to the screws. Some trimming may be required.

# FRONT VIEW



RIGHT

LEFT



# REAR VIEW (LEFT)

## POSITIONING PREMIERES IN THE LISTENING ROOM

In addition to the electronics you use, the acoustics of your listening room directly affect the performance of the Premieres. Proper positioning of your Premieres in the listening room is essential to full realization of their potential. Some careful listening and experimentation will be necessary to find the best position for your particular room. Begin by locating your Premieres parallel to a solid wall and about 45 inches apart. If your room is rectangular, it is best if you locate them along a short wall so that they play the long way. The distance between them and the wall is important for optimum performance of the sub-woofer. Begin about 12 inches from the wall. Generally, the closer to the wall, the more intense the low bass response. Avoid boxing your Premieres into corners or locating them near doorways, closets or fireplaces. These locations tend to reduce the effectiveness of the sub-woofer. Avoid locating them near loosely panalled walls or anything else that may rattle or break. When properly positioned, you should be able to hear a complete stereo image while seated in front of either side as well as in the center. You should listen from a seated position 8 to 12 feet away.

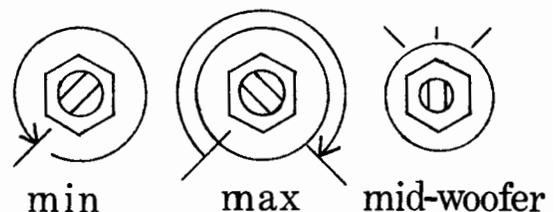
## SETTING THE LEVEL CONTROLS

After properly positioning the Premieres in the listening room and after careful listening to varied material, it may become evident that additional fine tuning is necessary to achieve the most desirable performance. The important consideration when making level control adjustments is to strive for perfect blend and balance between the modules. The system should sound smooth from top to bottom with no one section too loud or soft. In an acoustically "live" room, it may be necessary to adjust the level controls downward. In an acoustically "dead" room, they may be adjusted upward. Additional brilliance can also be had by removing the grill cloth from the midrange (FMI 80). Adjustments may also be necessary to compensate for certain characteristics of the electronics used.

Changing the position of the Premieres in the room, or the introduction of new or different peripheral equipment may also require further refinements in control settings. In general, try to avoid frequent or large adjustments of the controls. Any adjustment of the controls will also cause noticeable differences in tonal structure as well as level.

We believe that the Premiere is the finest speaker anyone can own. We also believe that when your Premieres have been properly set up and are used with only "State of the Art" electronics, you will enjoy the ultimate musical experiences. Good listening!

All the level controls are variable except the mid-woofer control which has three positions, low, medium, high. The variable controls are like clocks. Minimum level is about 7:00. Maximum is about 5:00.



## USE THE PROPER WIRE

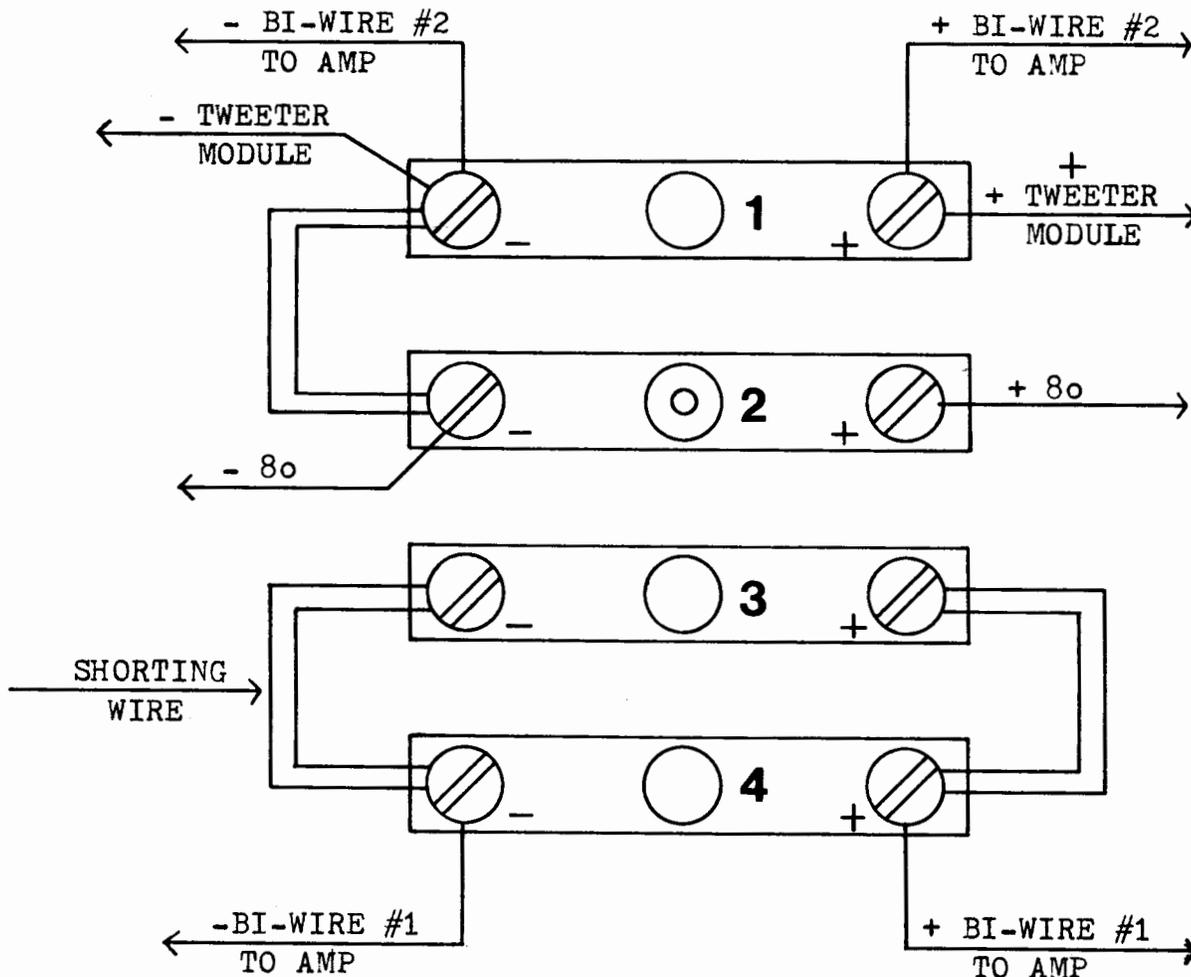
Top performance of your speaker can only be achieved through the use of the Fulton Gold speaker leads. Fulton was the first company to create audio leads made for audio. Previously we had to listen to many problems created by so called audio leads which were in truth hand-me-downs from other industries. These other leads are bad because they are easily driven into saturation by intense broad band torrents of musical information and by DC biases. Many of these wires have proven to be only white noise generators at best. Close inspection often shows pitting where arcing has occurred between the strands. High frequencies typically travel on or near the surface of the wire. The average audio wire is neither hard-drawn nor as tightly wound, the current will create a physical, even audible movement of each individual strand. This movement burns pits and craters into the wire, causing both vertical and horizontal arcing of the current, which we call "Inter-Strandular Diode Action" or ISDA. ISDA creates an immediate and continuing degradation of both the medium and the message. Envelopes of beautiful harmonic musical information are rendered totally unrecognizable after passing through such a catastrophic media. Audio can be thought of as low frequency radio frequencies (R.F.). However, unlike R.F. which typically deals with only one frequency, audio must look at many. Cymbal crashes are recorded beyond 40K hertz, the harp beyond that. Music is not limited in bandwidth in its natural environment, dare we limit it in our playback equipment? We also recommend using our amp to pre-amp inter-connect.

## BI AND TETRA WIRING

Bi-wiring is a concept originated by Fulton. It is a means to provide reduced distortion and tighter coupling between the amp and speakers. Simply stated, this is accomplished by providing separate and isolated paths for different ranges of frequencies and greater dynamic range or peak current capability. Bi-wiring typically is used with only one stereo amplifier, thereby avoiding the level and time alignment problems that occur when two dissimilar amplifiers are used. Tetra-wiring, the use of four sets of cables, is highly recommended. This set up delivers the maximum energy and provides the listener, for the first time, with a real musical experience. Consult the diagrams for properly connecting the speaker in either configuration.

## FULTON PREMIERE BI-WIRING TECHNIQUE

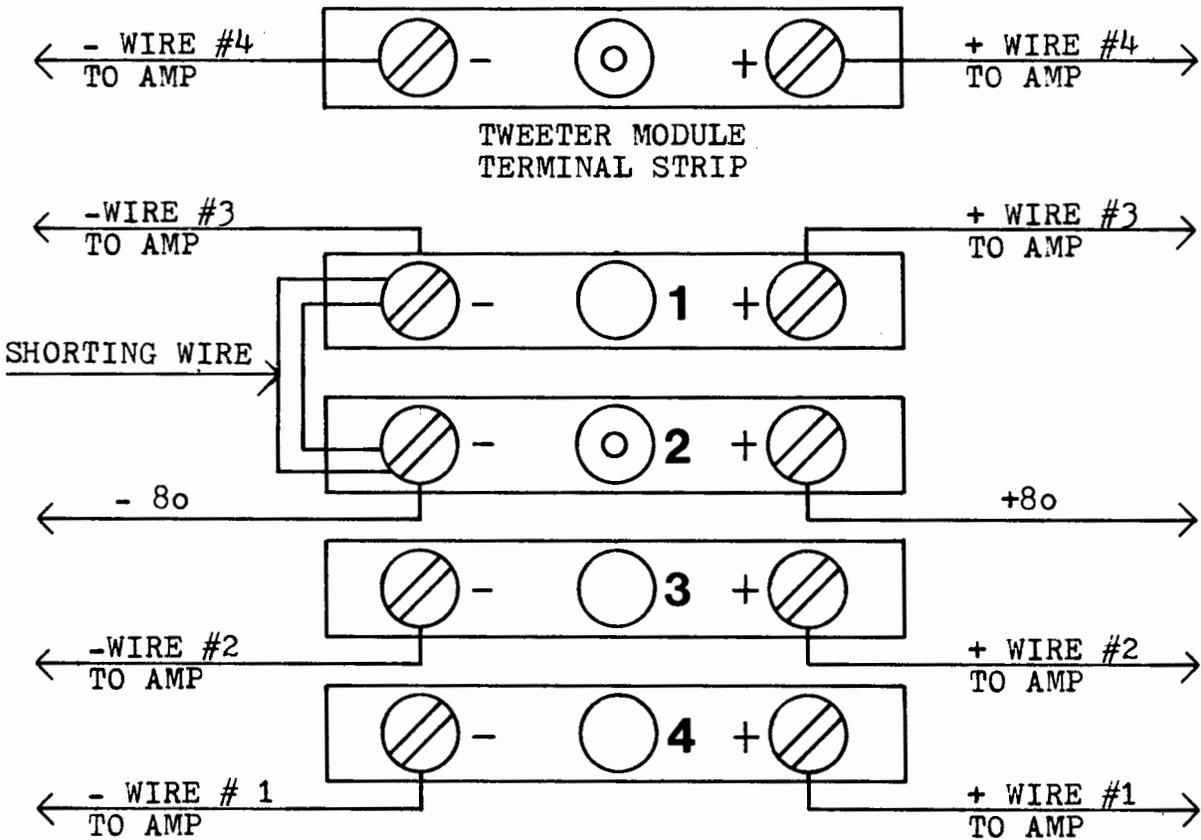
1. Bi-wiring achieves lower distortion caused by inter-modulation occurring in the speaker wires. Although the high and low frequency voltages are impressed on both speaker lines, only the current traveling through the wires is that which is dissipated by the speakers.
2. The first terminal strip is the upper most one. The fourth strip is the lower one.
3. Disconnect and remove the shorting wire between #2 and #3 negative terminals.
4. Disconnect and remove the shorting wire between #1 and #3 positive terminals.
5. Connect the first pair of speaker cables to the fourth (bottom) terminal strip.
6. Connect the second set of speaker cables to the top (first) terminal strip.
7. Re-connect upper drivers as specified in the set up instructions.
8. Insure that both sets of speaker cables are the same length and the same type.



FULTON PREMIERE TETRA-WIRING TECHNIQUE

We recommend using only Fulton Gold wire for this set up.

1. Disconnect and remove all shorting wires except the one between #1 and #2 negative terminals.
2. Route all wires through the strain relief handle provided.
3. First attach the #1 speaker wire to the 4th terminal strip. Next attach the #2 wire to the 3rd terminal strip.
4. Attach the inter-connect wires from the 8o to the 2nd terminal strip. See page 5, rear view.
5. Connect the #3 wire to the #1 terminal strip and insure all connections are properly tightened.
6. Route the last or #4 wire through the strain relief handle and attach the wire to the tweeter module terminal strip. Insure the shorting wire is in place between the negative terminal of the first and second terminal strip.
7. Re-check all connections to insure that the red lead is connected to the positive end of the terminal strip.
8. Amp connection- Special adapter leads are available from Fulton to implement the connection of the four leads to the amplifier.
9. In a fully tetra-wired, high powered system, banana plugs can represent a degradation of up to 30%. Special leads to bypass the banana plugs are available from Fulton.



# Fulton Limited WARRANTY

FULTON MUSICAL INDUSTRIES warranties all of its speakers to be free of manufacturing defects in material and workmanship for a period of five years from the date of purchase from an authorized FMI dealer. Within this five year period, FMI will, at its option, either repair or replace, at no charge, those of its speakers that become defective under normal operating conditions. Defects that are determined by the company to be the result of abuse or negligence by the owner are not covered by this warranty. Such abuse or negligence includes but is not limited to the following: improper fusing, improper installation, overdriving, the failure of an amplifier or other component connected to the speaker, any modification either internal or external. This warranty is void if the speaker is found by the company to have been opened or if the serial number has been altered or removed.

A valid warranty card must be on file at FMI in order for repairs to be covered under this warranty. Warranty service includes parts, labor and return shipping costs to a designated point in the continental United States.

## INSTRUCTIONS FOR OBTAINING WARRANTY SERVICE

1. Fill out and mail warranty card within 10 days of purchase from an authorized FMI dealer.
2. Ship defective speaker prepaid to: Fulton Musical Industries  
Service Department  
4204 Brunswick Ave. No.  
Minneapolis, MN 55422

If original shipping carton is unavailable be sure to package speaker well. Your dealer may have cartons you can use.

3. Attach a letter to the outside of carton with EXPLANATION of PROBLEM. All correspondences must include name, address and serial numbers.