INSTRUCTION MANUAL

MAGNEPLANAR MG-III

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1. GENERAL DESCRIPTION

YOUR MAGNEPLANAR MG-III LOUDSPEAKER SYSTEM CONSISTS OF ONE PAIR OF OAK-FRAMED SCREENS, LABELED LEFT AND RIGHT (FOR IDENTIFICATION). EACH SCREEN CONTAINS ONE, FIVE-FOOT LONG RIBBON TWEETER AND ONE DUAL-SECTION, PLANAR/MAGNETIC DRIVER. THE PLANAR/MAGNETIC DRIVER CONSISTS OF A BASS SECTION AND A MIDRANGE SECTION ON A COMMON MYLAR DIAPHRAGM.

THE CROSSOVER COMPONENTS BETWEEN THE BASS AND MIDRANGE/TWEETER ARE HOUSED IN A PAIR OF EXTERNAL CROSSOVER BOXES. THE MIDRANGE TO TREBLE CROSSOVER COMPONENTS ARE HOUSED IN THE SPEAKER PANEL AND ARE NON-DEFEATABLE.

ALTHOUGH THE MG=III SYSTEM IS SET UP FOR CONVENTIONAL AMPLIFICATION, THE LOUDSPEAKER JACK PLATES PROVIDE BI-AMPLIFICATION AS AN OPTION.

2. ACCESSORY CARTON CONTENTS

- 2 SPEAKER BASES
- 2 OAK SUPPORT BRACKETS
- 10 WOOD SCREWS
- 4 2½ AMP. NORMAL BLOW FUSES
- 4 BANANA PLUG ADAPTORS
- 2 EXTERNAL CROSSOVER BOXES
- 1 XO-1 CROSSOVER
- 1 1/8" ALLEN WRENCH
- 2 GOLD MAGNEPLANAR EMBLEMS

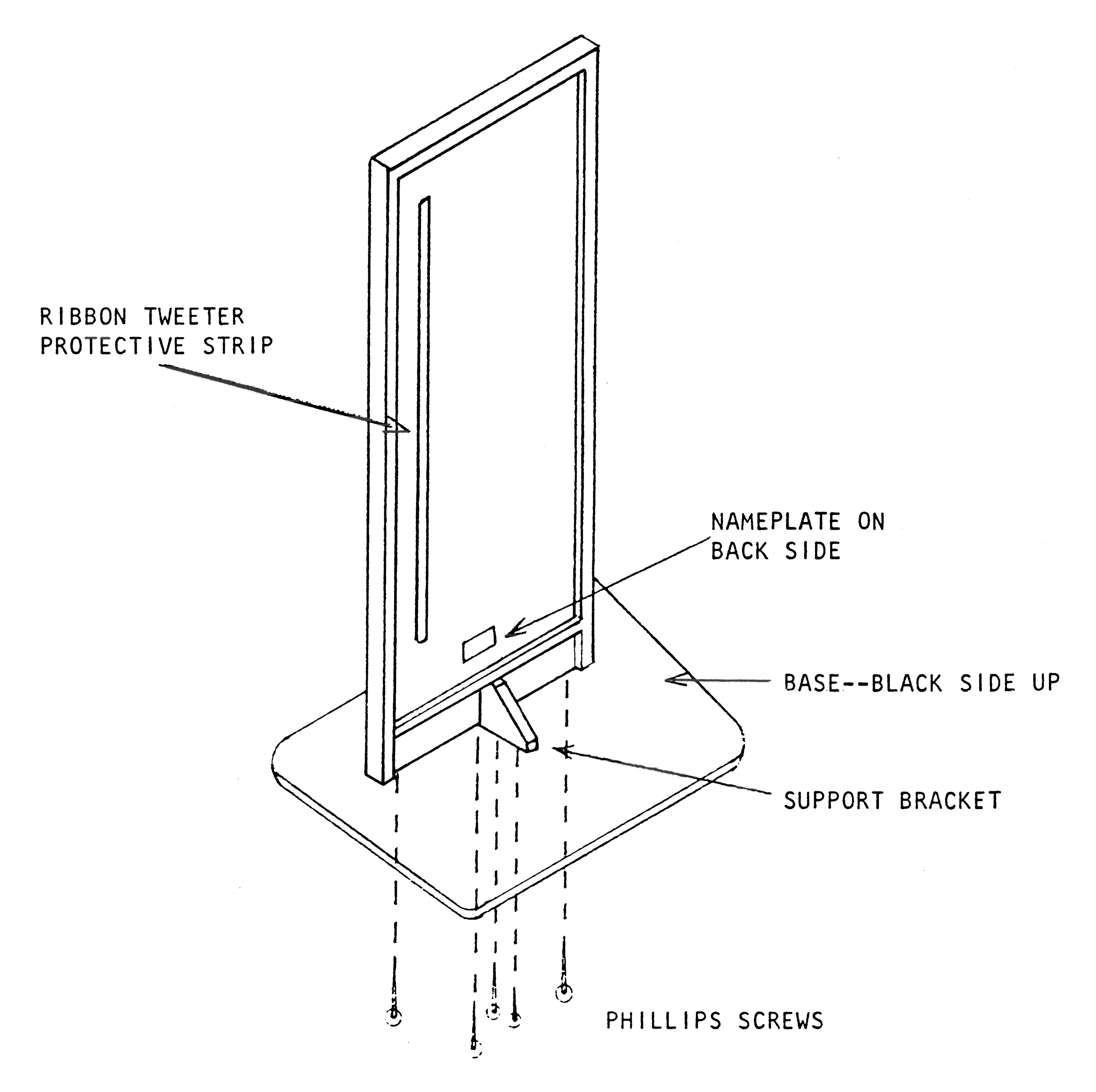
3. SPEAKER UNPACKING AND ASSEMBLY

UNPACKING SPEAKER

DO NOT PULL A SPEAKER ABRUPTLY FROM THE CARTON. THE RESULTING PARTIAL VACUUM COULD BURST THE RIBBON. DO NOT REMOVE THE TWEETER PROTECTOR STRIP UNTIL THE SPEAKER IS COMPLETELY ASSEMBLED.

SPEAKER ASSEMBLY

ASSEMBLE BASE AND SUPPORT BRACKET TO FRAME WITH COUNTERSUNK HOLES DOWN AND THE WIDEST SECTION OF BASE TOWARD THE FRONT. USE THE FIVE NO. 14 - 1½" LONG SCREWS WHICH ARE PROVIDED FOR EACH BASE AND SUPPORT BRACKET. A HEAVY DUTY NO. 3 PHILLIPS SCREWDRIVER SHOULD BE USED. (IF SCREWS ARE DIFFICULT TO INSTALL, RUB A SMALL AMOUNT OF SOAP ON SCREW THREADS.)



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4. HOOKUP

THIS SECTION COVERS ONLY SINGLE AMPLIFIER SET UP. FOR INSTRUCTIONS ON BI-AMPLIFICATION, REFER TO SECTION 9.

THE MG-III FEATURES NEW, HIGH-CURRENT CONNECTORS FOR OPTIMUM CONTACT AREA WITH SPEAKER CABLES UP TO 8 GAUGE. JUST STRIP 1/2" INSULATOR FROM END OF CABLE, INSERT IN CONNECTOR AND TIGHTEN SET-SCREW WITH ALLEN WRENCH PROVIDED. FOUR BANANA JACK ADAPTORS ARE PROVIDED FOR CROSSOVER INPUT TO BE USED WHEN QUICK DISCONNECT IS NECESSARY.

CONNECT AMPLIFIER SPEAKER WIRE TO INPUT OF MG-III EXTERNAL CROSSOVER BOX.

CUT SHORT LENGTH (2 - 3 FEET) OF SPEAKER WIRE AND CONNECT MID/TREBLE OUTPUT

OF CROSSOVER BOX TO MID/TREBLE INPUTS ON SPEAKER PANEL. INSTALL ANOTHER SHORT

SPEAKER WIRE BETWEEN BASS OUTPUT OF CROSSOVER AND MG-III BASS INPUTS. TAKE

SPECIAL PRECAUTIONS TO ENSURE CORRECT POLARITY ON SPEAKER WIRE CONNECTIONS.

MOST SPEAKER WIRES HAVE SOME SORT OF CODING ON ONE LEAD, EITHER PRINTING OR

A "RIB" TO HELP IN MAINTAINING POLARITY.

EVERY CONNECTION POINT IS COLOR-CODED RED OR BLACK, AND MARKED POSITIVE (+) OR NEGATIVE (-). MAKE A CHOICE AS TO WHICH LEAD IS EITHER POSITIVE OR NEGATIVE, AND MAKE SURE ALL CONNECTIONS ARE CONSISTENT WITH THE MARKINGS ON THE CROSSOVER BOX AND LOUDSPEAKER TERMINAL PLATE.

DOUBLE-CHECK YOUR CONNECTIONS! THERE ARE 20 CONNECTIONS TO MAKE ON YOUR MG-III. ONE MISTAKE WILL PUT YOUR SYSTEM OUT OF PHASE.

5. IMPORTANT PRECAUTIONS

FRAGILE! THE FOIL ELEMENT IN THE RIBBON TWEETER IS QUITE FRAGILE. HANDLE THE SPEAKER PANEL WITH CARE. DO NOT DROP FLAT ON THE FLOOR. AIR PRESSURE CAN RUPTURE THE ELEMENT.

RUPTURED RIBBON ELEMENTS ARE NOT COVERED UNDER THE WARRANTY.

ULTRAVIOLET DAMAGE

THE BACK SIDE (DIAPHRAGM SIDE) OF THE SPEAKERS SHOULD NOT BE EXPOSED TO ULTRAVIOLET LIGHT FOR LONG PERIODS OF TIME. SUNLIGHT IS THE WORST, BUT SKYLIGHT IS ALMOST AS BAD. LONG EXPOSURE TO STRONG FLOURESCENT LIGHTS CAN ALSO BE A PROBLEM. TURN THE BACK SIDE OF THE SPEAKERS AWAY FROM WINDOWS WHEN NOT IN USE.

FUSING

THE MID AND TREBLE SECTIONS OF THE MG-III ARE PROTECTED WITH 2½ AMP NORMAL BLOW FUSES. (THE BASS SECTION DOES NOT REQUIRE FUSING PROTECTION.) THE FUSE VALUE SHOULD NEVER BE INCREASED OR BYPASSED. DO NOT USE SLOW-BLOW FUSES. FUSES REMAIN IN EFFECT WHEN BI-AMPLIFYING.

BURNED OUT MID OR TREBLE SECTIONS ARE NOT COVERED UNDER THE WARRANTY.

6. SPEAKER PLACEMENT

PROPER SPEAKER PLACEMENT AND ROOM ACOUSTICS CAN HAVE MORE EFFECT ON A MUSIC SYSTEM THAN UPGRADING ONE OF THE COMPONENTS IN THE SYSTEM. UNFORTUNATELY, THERE IS NO DEFINITIVE GUIDELINE WHICH WILL COVER ALL POSSIBLE LISTENING ROOMS. CONSIDERABLE EXPERIMENTATION IS REQUIRED FOR LOCATING THE OPTIMUM POSITION. THE FOLLOWING ARE A FEW GENERAL GUIDELINES:

BASS RESPONSE. IF YOU DO NOT HAVE ACCESS TO A SPECTRUM ANALYZER, PLAY A RECORD WITH A REPETITIVE BASS LINE (PREFERRABLY AN ACOUSTICAL BASS INSTRUMENT). TRY THE SPEAKERS IN SEVERAL PARTS OF THE ROOM. START EXPERIMENTING WITH THE SPEAKERS ABOUT 3 FEET FROM THE BACK WALL. TRY MOVING THE SPEAKERS FORWARD OR BACKWARD BY INCREMENTS OF 6 TO 12 INCHES AT A TIME. ONE PART OF THE ROOM SHOULD BE NOTICEABLY BETTER THAN THE REST.

WHILE YOU ARE TRYING DIFFERENT PLACEMENTS FOR THE SPEAKERS, MOVE AROUND THE <u>LISTENING AREA</u> AND YOU WILL NOTICE THAT THE BASS IS STRONGER IN SOME AREAS THAN OTHERS (DUE TO STANDING WAVES IN THE ROOM). YOU SHOULD LOCATE YOUR LISTENING SEAT IN THE AREA WHICH SOUNDS MOST NATURAL.

ONCE YOU HAVE LOCATED THE <u>IDEAL</u> LISTENING POSITION YOU SHOULD MARK IT.

A SMALL TACK OR INCONSPICUOUS PIECE OF YARN CAN BE TIED IN THE CARPET SO

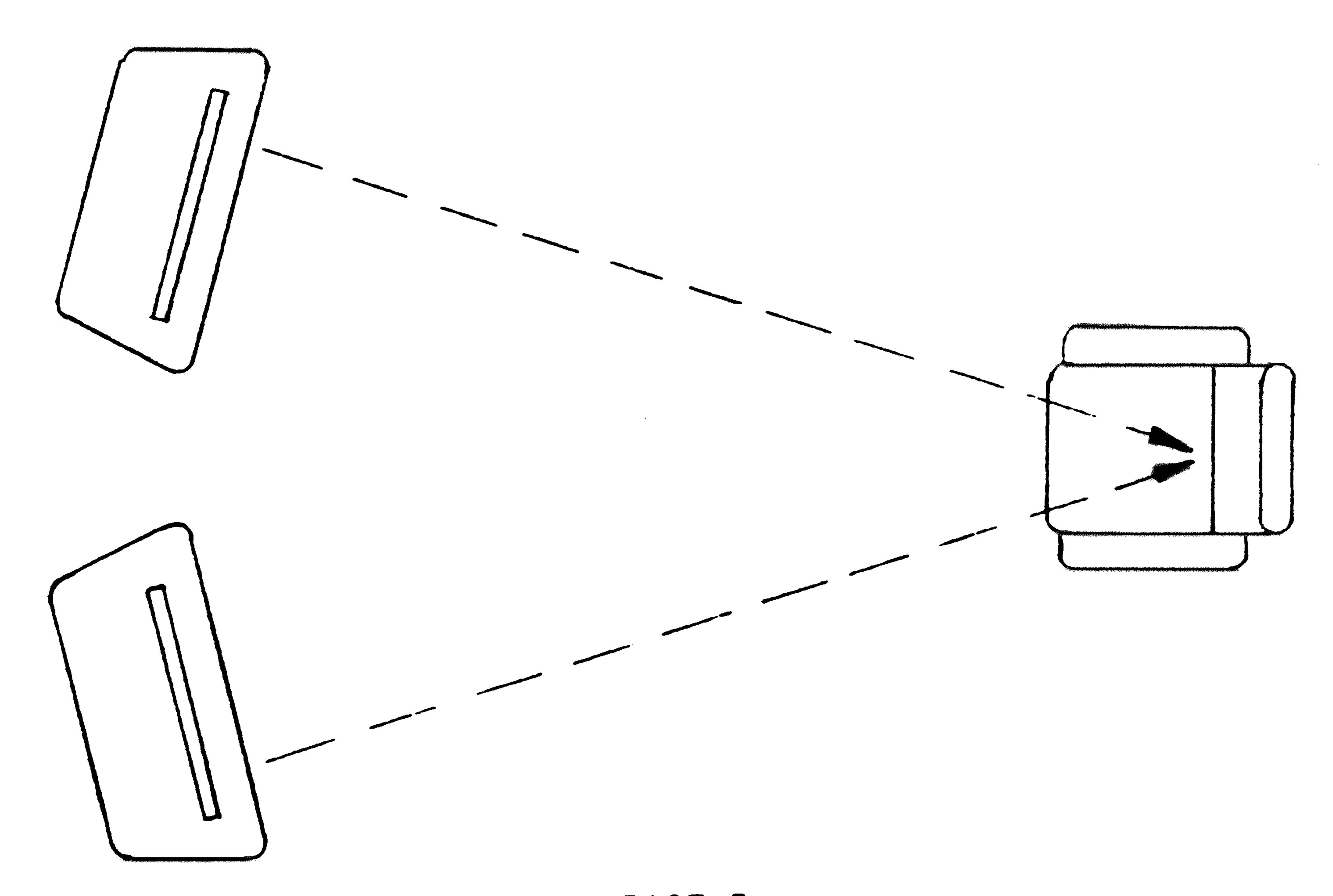
YOUR IDEAL LISTENING SPOT CAN BE EASILY RELOCATED WHEN THE SPEAKERS OR CHAIR

ARE MOVED FOR CLEANING, ETC.. IN THE EVENT THAT YOUR IDEAL LISTENING SPOT IS INCONVENIENT FROM THE STANDPOINT OF THE ROOM LAYOUT AND DECOR, SIMPLY SLIDE THE SPEAKERS WHEREVER THEY LOOK BEST. EXPERIENCE HAS SHOWN THAT THE SPEAKERS CAN BE PLACED CLOSE TO A WALL AND IT WILL MAKE LITTLE DIFFERENCE FOR FM OR BACKGROUND LISTENING.

NOTE: BREAK-IN PERIOD. FROM ONE TO TWO MONTHS AFTER INSTALLATION THERE IS A NOTICEABLE INCREASE IN DEEP BASS RESPONSE.

THE SPEAKERS AND YOUR CHAIR FOR BASS PERFORMANCE, SEPARATE THE SPEAKERS
FOR 50% OF THE DISTANCE FROM YOUR CHAIR TO THE SPEAKERS. (FOR EXAMPLE,
IF YOUR CHAIR IS 10 FEET FROM THE SPEAKERS, MOVE THE SPEAKERS 5 FEET
APART.) NOW, MOVE THE SPEAKERS APART IN INCREMENTS OF 3 OR 4 INCHES
AT A TIME, LISTENING CAREFULLY AT EACH POSITION. AT SOME POINT YOU WILL
START TO HEAR TWO SEPARATE SPEAKERS INSTEAD OF A "STAGE EFFECT". IF YOU
HAVE A HOLE-IN-THE-MIDDLE EFFECT, YOUR SPEAKERS ARE TOO FAR APART. BEGIN MOVING THE SPEAKERS BACK IN SMALL INCREMENTS UNTIL YOU NOTICE A POINT
AT WHICH YOU ACHIEVE ONE COHESIVE "SOUND STAGE".

DEPENDING ON ROOM ACOUSTICS AND YOUR OWN PERSONAL TASTES, YOU MAY PREFER THE SOUND WITH THE TWEETERS ON THE INSIDE. IN MOST ROOMS THIS WILL INCREASE THE CENTRAL FOCUS OF THE SOUND AND MAY IMPROVE IMAGING. WITH EITHER ARRANGEMENT THE SMOOTHEST FREQUENCY RESPONSE IS OBTAINED BY LISTENING WITH THE TWEETERS DIRECTLY ON AXIS AS SHOWN BELOW.



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7. ROOM ACOUSTICS

MAGNEPLANARS, LIKE OTHER BIPOLAR SPEAKERS, USUALLY SOUND BEST WITH A MODERATELY REFLECTIVE SURFACE BEHIND THE SPEAKERS. IN SITUATIONS WHERE THE SPEAKERS MUST BE PLACED CLOSER THAN 2 FEET FROM THE BACK WALL, A HEAVY DAMPING MATERIAL DIRECTLY BEHIND THE SPEAKERS IS ADVISED; HOWEVER, IT SHOULD NOT COVER THE ENTIRE WALL.

DAMPING MATERIAL IN OTHER PARTS OF THE ROOM IS A MATTER OF TRIAL AND ERROR. A WORD OF CAUTION—WHEN AUDIOPHILES DISCOVER THE EFFECTIVENESS OF DAMPING MATERIAL, THEY SOMETIMES OVERDO IT (ON THE PREMISE THAT IF A LITTLE IS GOOD, MORE IS BETTER). BEFORE YOU MAKE A PERMANENT CHANGE TO YOUR ROOM, EXPERIMENT WITH THE POSITIONING OF THE DAMPING MATERIAL. USUALLY, A PORTION OF ONE OF TWO PARALLEL WALLS SHOULD HAVE SOME DAMPING.

AN OVERDAMPED ROOM WILL PROVIDE VERY PRECISE IMAGING, BUT YOU WILL HAVE A REDUCED SENSE OF AMBIENCE (LESS REVERBERATION, SPACIOUSNESS). AN UNDERDAMPED ROOM MAY HEIGHTEN THE ILLUSION OF BEING IN A CONCERT HALL, BUT THE JMAGING WILL SEEM IMPRECISE WITH ALL THE INSTRUMENTS MIXED TOGETHER. MODERATION IS THE WORD.

8. OPTIONAL RIBBON TWEETER ATTENUATION

THERE ARE TWO PRINCIPAL REASONS FOR NEEDING TO ATTENUATE THE MAGNEPLANAR RIBBON TWEETER:

- A. RECORDINGS, TYPICALLY IN THE "POP" OR "ROCK" VEIN, OFTEN EXHIBIT A PRONOUNCED RISE IN THE REGION ABOVE 6KHZ.
- B. THE MAGNEPLANAR RIBBON TWEETER IS VERY EFFICIENT IN ITS TOTAL "ENERGY DISPERSION". IF THE SURROUNDING WALLS ARE EXCEPTIONALLY REFLECTIVE, THE OVERALL PERCEIVED ACOUSTICAL BALANCE WILL BE TIPPED TOWARDS A "HOT" HIGH END.

THE MAGNEPAN ATTENUATOR IS SIMPLY A NON-INDUCTIVE RESISTOR IN SERIES WITH THE TWEETER. THIS IS ACCOMPLISHED EXTERNALLY AT THE TWEETER FUSE.

FOR SPECIFIC DETAILS CONTACT YOUR MAGNEPLANAR DEALER OR MAGNEPAN.

9. BI-AMPLIFICATION

THE MG-III IS ARRANGED CONVENIENTLY FOR BI-AMPLIFICATION. BY ADDING AN ADDITIONAL STEREO AMPLIFIER AND A CROSSOVER YOU CAN ENJOY THE BENEFITS OF INCREASED DYNAMIC RANGE AND LOWER DISTORTION.

THE FOLLOWING IS A DESCRIPTION OF TWO METHODS OF BI-AMPLIFYING YOUR MG-III:

A. <u>BI-AMPLIFICATION WITH MAGNEPLANAR XO-1.</u> ENCLOSED WITH YOUR MG-III'S IS A MAGNEPLANAR XO-1 PASSIVE CROSSOVER AND INSTRUCTION MANUAL.

THE XO-1 UTILIZES A SIMPLE, HIGH QUALITY CAPACITOR NETWORK FOR THE MIDRANGE/TWEETER SECTION, AND IS USED IN CONJUNCTION WITH THE LOW PASS PORTION OF THE EXTERNAL CROSSOVER FOR THE BASS SECTION. THIS ALLOWS THE LEAST AMOUNT OF SIGNAL PROCESSING, GIVING THE PUREST POSSIBLE REPRODUCTION OF ALL FREQUENCIES. THE XO-1 INCLUDES CONTROLS TO BALANCE THE BASS AMP TO THE MID/TREBLE AMP.

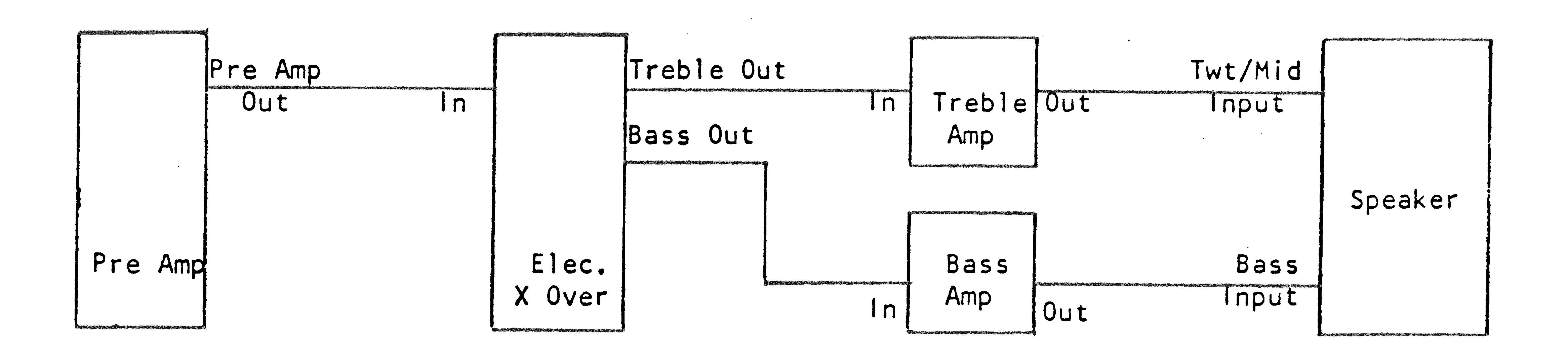
SEE ATTACHED X0-1 INSTRUCTION MANUAL FOR SPECIFIC INSTRUCTIONS.

B. BI-AMPLIFICATION WITH CONVENTIONAL ELECTRONIC CROSSOVER

1. SET YOUR ELECTRONIC CROSSOVER AT THE FOLLOWING POINTS AND SLOPES:

LOW PASS: -3DB AT 300 HZ AT 18DB PER OCTAVE
HIGH PASS: -3DB AT 800 HZ AT 6DB PER OCTAVE

2. CONNECT THE BASS AND MID/TREBLE AMPLIFIERS DIRECTLY TO THE SPEAKERS AS SHOWN BELOW (DO NOT USE THE MG-III OUTBOARD CROSSOVER BOX):



3. SINCE THE EFFECTIVE CROSSOVER POINT FOR THE MG-III IS APPROXIMATELY 500 HZ, THE POWER REQUIREMENTS FOR THE BASS AMP AND MID/TREBLE AMP ARE NEARLY THE SAME. PART OF THE REASON FOR BI-AMPLIFICATION IS INCREASED DYNAMIC RANGE; THEREFORE, USE AMPLIFIERS WITH AN 8 OHM RATING OF AT LEAST 100 WATTS PER CHANNEL.

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10. MAINTENANCE

- A. THE HARDWOOD FRAMES CAN BE CLEANED AND POLISHED WITH STANDARD FURNITURE WAX.
- B. CLEANING OF SPEAKER FABRIC--SMUDGES ON THE FABRIC OF THE MG-III SPEAKER CAN BE SUCCESSFULLY REMOVED WITH THE PROPER USE OF K2R CLEANER WITH-OUT LEAVING A RING AROUND THE AREA CLEANED. (K2R IS AVAILABLE AT MOST SUPERMARKETS OR VARIETY STORES.)
- C. FOR THE FIRST MONTH OR SO, THE ADHESIVE ON THE SPEAKER DIAPHRAGM MAY HAVE ENOUGH TACK TO CAUSE THE FABRIC TO STICK TO THE DIAPHRAGM IF THE FABRIC IS PRESSED AGAINST THE BACK OF THE SPEAKER. THIS WILL NOT DAMAGE THE SPEAKER AND THE FABRIC MAY BE GENTLY PULLED FREE.
- D. FOR OWNERS WITH CATS, WE RECOMMEND CAT REPELLENT AROUND THE BASE OF THE SPEAKERS.

11. SERVICE

IN THE UNLIKELY EVENT THAT YOU SHOULD NEED SERVICE FOR YOUR MG-III LOUD-SPEAKERS, WE RECOMMEND YOU CONTACT YOUR DEALER. HE IS EXPERIENCED IN PROVIDING SERVICE AND CAN ASSIST YOU IF THE SPEAKERS MUST BE RETURNED TO THE FACTORY.

IF IT IS DETERMINED THAT YOUR SPEAKERS MUST BE RETURNED FOR REPAIR, SHIP YOUR SPEAKERS (FREIGHT PREPAID--ASK FOR LOUDSPEAKER RATE 62420) TO:

MAGNEPAN, INCORPORATED

1645 NINTH STREET

WHITE BEAR LAKE, MN 55110

INCLUDE A PACKING SLIP OR LETTER DESCRIBING THE NATURE OF THE PROBLEM. PLEASE

and the contract of the contra

INCLUDE YOUR NAME, ADDRESS, AND A DAYTIME TELEPHONE NUMBER.

SHIPPING—BEFORE PACKAGING, VERY CAREFULLY INSTALL STEEL PROTECTOR STRIP OVER RIBBON. DO NOT LET STEEL STRIP SLAP AGAINST MAGNETS.

THE RIBBON ELEMENT WILL BE RUPTURED IF SHIPPED WITHOUT STEEL PROTECTOR STRIP, AND WOULD NOT BE COVERED UNDER THE WARRANTY.

12. THE RIBBON TWEETER

BECAUSE THE FOIL ELEMENT IN YOUR MG-III LINE SOURCE TWEETER IS ONLY 2.5

MICRONS THICK IT IS VERY FRAGILE. IT'S THE PRICE WE PAY FOR ULTRA HIGH PERFORMANCE. MOST USERS WILL FIND THE RIBBON WILL LAST FOR SEVERAL YEARS, OTHERS

MAY FIND IT NEEDS REPLACING EVERY TWO YEARS OR SO. THE DETERMINING FACTOR WILL

BE THERMAL FATIGUE CAUSED BY FREQUENT HEATING AND COOLING OF THE FOIL ELEMENT.

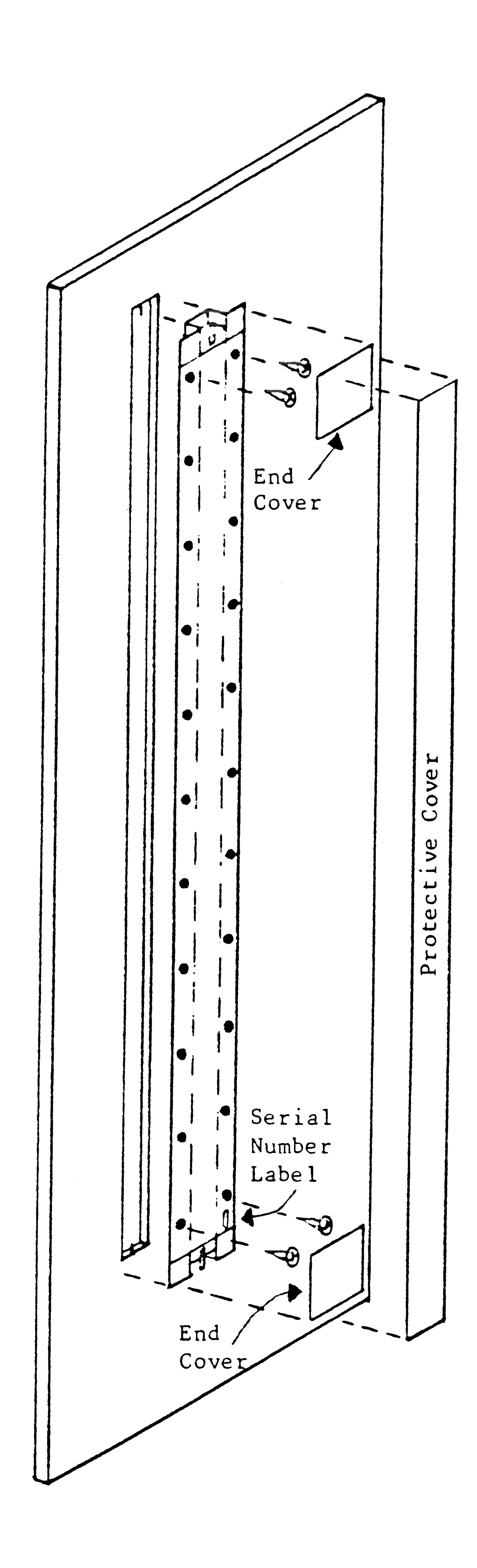
USERS THAT FREQUENTLY PUSH THE 2½ AMP TWEETER FUSE CAPACITY WILL BE THE MOST

LIKELY TO EXPERIENCE EARLY FAILURE. BECAUSE OF THIS THE TWEETER HAS BEEN

DESIGNED TO BE EASILY REPLACED, REQUIRING ONLY A SCREWDRIVER AND A SOLDERING

IRON. THE TIME REQUIRED SHOULD BE LESS THAN 15 MINUTES.

IF YOU HAVE A DEFECTIVE TWEETER, YOU SHOULD CONTACT YOUR DEALER FOR AN IMMEDIATE REPLACEMENT. YOUR DEFECTIVE UNIT IS THEN RETURNED TO MAGNEPAN FOR INSTALLATION OF A NEW FOIL ELEMENT AT A MINIMAL CHARGE TO YOU. THERE IS NO CHARGE IF IT IS WITHIN THE ONE-YEAR WARRANTY PERIOD THAT COVERS THE FOIL ELEMENT.



13. RIBBON TWEETER REPLACEMENT

TOOLS NEEDED: #2 PHILLIPS SCREWDRIVER
SOLDERING IRON

- A. PLACE PROTECTIVE COVER OVER BACKSIDE OF
 RIBBON TWEETER, AS SHOWN (TO PREVENT
 DAMAGE TO RIBBON WHILE MOVING THE SPEAKER
 PANEL).
- B. CAREFULLY LAY SPEAKER ON A FLAT TABLE OR WORKING SURFACE.
- C. REMOVE THE PROTECTIVE COVER AND PRY AWAY
 THE TWO END COVERS.
- D. DESOLDER THE WIRE AT EACH END OF THE RIBBON TWEETER.
- E. REINSTALL PROTECTIVE COVER OVER RIBBON.
- F. REMOVE THE SCREWS THAT ATTACH THE RIBBON
 TWEETER TO THE FRAME AND THEN REMOVE THE
 TWEETERS.
- G. INSTALL THE NEW RIBBON TWEETER IN THE FRAME. SERIAL NUMBER LABEL MUST BE AT THE BOTTOM.
- H. INSERT THE SCREWS. (TIGHTEN UNTIL SNUG, THEN BACK OFF 1/2 REVOLUTION.)
- I. REMOVE PROTECTIVE COVER AND SOLDER THE WIRES TO THE RIBBON LUGS. (USE ROSIN CORE SOLDER.)
- J. PEEL LINER FROM BACK OF END COVERS AND ADHERE TO EACH END OF TWEETER.
- K. INSTALL PROTECTIVE COVER.
- L. REPOSITION SPEAKERS IN LISTENING POSITION AND REMOVE PROTECTIVE COVER.
- M. REPACK AND RETURN THE OLD TWEETER IN THE TUBE PROVIDED, TO YOUR DEALER.

ITS END TERMINALS. ALSO DO NOT TUG
ON THE FINE WIRE JUMPER THAT IS
SOLDERED TO THE FOIL AND ATTACHED
TO THE END TERMINAL.

14. MG-III SPECIFICATIONS

SYSTEM DESCRIPTION: 3-WAY, COMBINATION PLANAR-MAGNETIC AND TRUE RIBBON TWEETER

WITH BI-AMPLIFICATION OPTION

BASS SECTION: 620 SQ. IN. PLANAR MAGNETIC

MIDRANGE SECTION: 170 SQ. IN. PLANAR MAGNETIC

TWEETER SECTION: 1/4 IN. WIDE, 57 IN. LONG X .0001 IN. THICK TRUE RIBBON

LINE SOURCE

FREQUENCY RESPONSE: + 4DB FROM *37 HZ TO 40 KHZ

POLAR RESPONSE - RIBBON DRIVER: 180 HORIZONTAL DISPERSION BOTH

FRONT AND BACK TO 20 KHZ

MINIMUM RECOMMENDED POWER: 50 WRMS (8 OHM RATED)

MAXIMUM RECOMMENDED POWER: 200 WRMS (8 OHM RATED)

SENSITIVITY: 1 WATT RMS, 500 HZ, 85DB @1 METER

1 WATT RMS, 20-40,000 HZ PINK NOISE, 83DB @1 METER

IMPEDANCE: PURELY RESISTIVE: BASS--4 OHMS

MIDRANGE & RIBBON TWEETER--3 OHMS

CROSSOVER SYSTEM: LOW-PASS (BASS): -18DB BUTTERWORTH @300 HZ

HIGH-PASS (MIDRANGE/TWEETER): -6DB @800 HZ

ALL CROSSOVERS FURNISHED FOR FULL-RANGE OPERATION OR BI-AMPLIFICATION.

CROSSOVER BETWEEN MIDRANGE AND TWEETER IS APPROXIMATELY 3000 HZ AND IS NONDEFEATABLE.

FINISH: OAK FRAME AND TRIM. PANEL COVERED WITH OFF-WHITE CLOTH

WARRANTY: (LIMITED) NON-TRANSFERRABLE - RIBBON FOIL ELEMENT - 1 YEAR

BALANCE OF SPEAKER - 3 YEARS

SHIPPING WEIGHT: 135 LBS.

**BECAUSE THERE ARE NO UNIVERSALLY ACCEPTED METHODS FOR LOUDSPEAKER MEASUREMENTS,
FREQUENCY RESPONSE SPECIFICATIONS MAY BE STATED BY MOST MANUFACTURERS WITHOUT REFERENCE TO MEASUREMENT TECHNIQUES AND/OR SPECIFIC LOCATIONS IN ROOMS. MAGNEPLANAR
LOUDSPEAKER FREQUENCY RESPONSE CURVES ARE MINIMUM AVERAGE PERFORMANCE LEVELS THAT
MAY REASONABLY BE EXPECTED IN NORMAL INSTALLATIONS.

AFTER A MONTH OR TWO OF USE THE BASS RESPONSE WILL LOWER 5 HZ OR MORE. AT THIS POINT THE RESPONSE WILL STABILIZE AND THE SPEAKERS RATED PERFORMANCE (OR BETTER)

CAN BE REALIZED. WHILE THIS 5 HZ OR MORE OF LOWER BASS RESPONSE IS IMPORTANT, THE MOST IMPORTANT FACTORS IN OBTAINING GOOD BASS RESPONSE FROM THE MG-III SPEAKERS ARE ROOM SIZE AND GEOMETRY, WALL MATERIAL, AND SPEAKER PLACEMENT.