

MAGICO Model 5 User's Guide



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A MESSAGE FROM ALON WOLF

THANK YOU FOR PURCHASING THE MAGICO MODEL 5 LOUDSPEAKERS.

THE MODEL 5 INCORPORATES ALL WE HAVE LEARNED IN THE PAST 15 YEARS ABOUT LOUDSPEAKER DESIGN AND MANUFACTURING. LIKE ALL MAGICO LOUDSPEAKERS, THE MODEL 5 IS A PRECISION INSTRUMENT FOR MUSIC REPRODUCTION. PROPERLY SET-UP AND MAINTAINED, IT WILL PROVIDE YOU WITH A GREAT MUSICAL EXPERIENCE FOR MANY YEARS.

BEFORE UNPACKING AND PLAYING YOUR SPEAKERS, PLEASE READ THE FOLLOWING MANUAL FULLY. IT WILL PROVIDE YOU WITH DIRECTIONS FOR PROPERLY UN-BOXING, SETTING UP, POSITIONING, CONNECTING, AND CARING FOR YOUR SPEAKERS. FOLLOWING THESE INSTRUCTIONS WILL INSURE A SMOOTH INSTALLATION AND OPTIMUM SPEAKER PERFORMANCE.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT YOUR AUTHORIZED MAGICO DEALER. MAGICO MAINTAINS A NETWORK OF DEDICATED DISTRIBUTORS WHO WILL BE ABLE TO HELP YOU, SHOULD YOU HAVE ANY PROBLEMS YOUR DEALER CANNOT RESOLVE. FOR THE LATEST INFORMATION ON ALL MAGICO PRODUCTS, PLEASE VISIT OUR WEBSITE, WWW.MAGICO.NET.

I WISH YOU MANY HOURS OF LISTENING PLEASURE.

KINDEST REGARDS,



ALON WOLF,
CEO
MAGICO, LLC

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UNPACKING YOUR SPEAKERS

TOOLS REQUIRED: FLAT HEAD SCREWDRIVER, 2 PEOPLE.

NOTE: OPEN SPEAKER LABELED 'A' FIRST AS IT CONTAINS UNPACKING MATERIALS FOR BOTH SPEAKERS (FOAM AND RAMP). THE RAMP AND FOAM ARE TAPED TO THE INSIDE OF THE CRATE DOOR AND LABELED "RAMP."



1
POSITION THE CRATE IN FRONT OF THE FINAL SPEAKER LOCATION.



2
REMOVE THE METAL CLIPS FROM THE CRATE USING A FLAT HEAD SCREWDRIVER.



3
REMOVE THE DOOR.



4
WITH TWO PEOPLE REMOVE THE CRATE FROM THE BASE SECTION.



5
POSITION THE RAMP BEHIND THE SPEAKER ON LIP ON THE EDGE OF THE BASE SECTION OF THE CRATE. PUSH FRONT OF SPEAKER, FROM A LOW POSITION UNTIL THE WHEELS NEARLY REACH



6
RELEASE THE BRAKES FROM THE REAR WHEELS AND ALIGN THEM POINTING UNDERNEATH THE SPEAKER AND PERPENDICULAR TO THE TOP OF THE RAMP.

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USING TWO PEOPLE HOLDING BOTH SIDES OF THE REAR OF THE SPEAKER WHEEL IT SLOWLY DOWN THE RAMP, CAREFUL TO STAY AWAY FROM THE EDGES OF THE RAMP.



REAPPLY THE REAR BRAKES TO 'ON'. PUSH THE SPEAKER BACK AND INSERT LARGE PIECE OF FOAM BETWEEN FRONT WHEELS AND LOWER GENTLY ONTO FOAM.



WHILE SOMEONE ELSE STEADIES THE SPEAKER, LOOSEN CIRCULAR NUT ON TOP OF FRONT WHEELS BY HAND, UNSCREW TO REMOVE WHEELS. ONCE WHEELS ARE OFF, LEAN SPEAKER BACK.



REPLACE LARGE PIECE OF FOAM WITH SMALL PIECE AND LOWER GENTLY ONTO FOAM.



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TIP SPEAKER FORWARD, INSERT LARGE PIECE OF FOAM BETWEEN REAR WHEELS. LOWER SPEAKER. REMOVE WHEELS BY HAND.



TIP SPEAKER FORWARD, REMOVE LARGE PIECE OF FOAM, REPLACE WITH RUBBER AND LOWER GENTLY.

TIP SPEAKER BACK, REMOVE FOAM.



LOWER FRONT TO GROUND.



TIP FORWARD, REMOVE RUBBER.



POSITION SPEAKER.

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SPEAKER PLACEMENT AND POSITIONING

THE MAGICO MODEL 5 LOUDSPEAKERS ARE A PRECISION INSTRUMENT FOR MUSIC REPRODUCTION. AS SUCH, PROPER CARE AND ATTENTION TO DETAIL WHEN SETTING UP THESE SPEAKERS WILL ALLOW YOU TO ACHIEVE THE MAXIMUM PERFORMANCE FROM THEM, REGARDLESS OF THE PARTICULAR ROOM. FOLLOWING THESE SET-UP GUIDELINES WILL MAKE SURE THE SPEAKERS ARE PROPERLY POSITIONED TO DELIVER THE OPTIMUM LISTENING EXPERIENCE. ALL THAT IS REQUIRED IS A TAPE MEASURE, A PEN, A CALCULATOR, A BALL OF STRING, A COUPLE OF DEMO CDS, AND SOME PATIENCE.

PLACEMENT—MODEL 5s IN RELATION TO BACK AND SIDE WALLS

BEFORE YOU BEGIN: LOOK FOR OBVIOUS IMPEDIMENTS INCLUDING ANYTHING THAT COULD GET IN THE WAY OF THE SOUND—E.G., OTHER SPEAKERS, AMPLIFIERS, EQUIPMENT RACKS, ANYTHING ON THE WALL THAT COULD CAUSE A REFLECTION, A SEVERE MISMATCH IN ANY INDIVIDUAL COMPONENT QUALITY, AND UNNECESSARY OR POORLY RUN SPEAKER/INTERCONNECT CABLES.

BASS—DISTANCE FROM REAR WALL

THE INITIAL PLACEMENT SHOULD BE APPROXIMATELY 1/2 METER FROM THE BACK OF THE LOUDSPEAKER TO THE BACK WALL. SINCE WE HAVE SHORT AUDITORY MEMORY, THE SELECTED DEMO MUSIC CUT SHOULD BE BRIEF—30 SECONDS – 1 MINUTE MAX. IT SHOULD BE A WELL RECORDED JAZZ CUT WITH GOOD BASS GUITAR OR PERCUSSION. WHAT WE ARE LISTENING FOR AT THIS TIME IS THE DEFINITION OF THE BASS AND THE RIGHT SENSE OF PROPORTION.

NEXT MOVE THE SPEAKER 15 – 20 CM FORWARD AND REPEAT THE LISTENING PROCESS. REPEAT THIS PROCESS, MOVING THE LOUDSPEAKER FORWARD IN 15 -20 CM INCREMENTS. WHEN YOU REACH THE POINT THAT MOVING IT FORWARD SOUNDS WORSE THAN THE PREVIOUS LISTENING POINT, MOVE THE LOUDSPEAKER BACK TO THIS POSITION AND MARK THIS DISTANCE FROM THE REAR WALL.

MIDRANGE—PLACEMENT IN RELATION TO SIDE WALLS

FOR LATERAL PLACEMENT, BEGIN BY DIVIDING THE ROOM WIDTH BY 14. INITIAL PLACEMENT OF THE LOUDSPEAKERS WILL BE AT 3 AND 11. THE DISTANCE FROM THE LOUDSPEAKER TO THE EARS HAS TO BE PRECISELY EQUAL. THIS MEASUREMENT IS CRITICAL. THE MUSIC FOR THIS PROCESS SHOULD BE A FEMALE VOICE AND PIANO. WE ARE LISTENING FOR THE IMAGE OF HER VOICE TO BE FOCUSED. THE RULE FOR THE TOE-IN IS TO PICK A POINT APPROXIMATELY ½ METER BEHIND THE LISTENER'S HEAD. TOE THE LOUDSPEAKERS IN TO INTERSECT AT THAT POINT. IF THE SOUND IS TOO BRIGHT, TOE THE SPEAKERS OUT A LITTLE MORE. IF THE SOUND IS TOO DULL, TOE THE SPEAKERS IN A LITTLE MORE.

REPEAT THE ABOVE PROCESS WITH THE LOUDSPEAKERS AT THE 4 AND 10 POSITION. THEN REPEAT, ONCE AGAIN WITH THE SPEAKERS AT THE 5 AND 9 POSITION.

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SUMMARY

ONCE THE INITIAL PROCESS HAS BEEN COMPLETED, RETURN TO THE BASS SET-UP TO MAKE SURE THAT THE LOUDSPEAKERS ARE THE PROPER DISTANCE FROM THE BACK WALL. WHEN THE PROCESS HAS BEEN COMPLETED, MARK THE SPEAKER LOCATION WITH TAPE SO THAT THE SPEAKERS CAN BE RETURNED THERE FOR FURTHER LISTENING.

POSITIONING—MODEL 5s IN RELATION TO THE LISTENER

- THE SPEAKERS AND THE LISTENER SHOULD FORM AN ISOSCELES TRIANGLE.
- THE LISTENER SHOULD BE EXACTLY EQUIDISTANT BETWEEN THE TWO LOUDSPEAKERS. THE BEST WAY TO DETERMINE THIS IS WITH A PIECE OF STRING. PICK A FIXED SPOT AT THE LISTENING POSITION. RUN THE STRING FROM THIS SPOT TO THE TIP OF THE TWEETER OF THE LEFT SPEAKER. REPEAT THE PROCESS FOR THE RIGHT SPEAKER. IT IS CRITICALLY IMPORTANT TO KEEP THIS DISTANCE PRECISELY THE SAME.
- TOE-IN. WE RECOMMEND PICKING A SPOT 1 – 2 FEET BEHIND THE LISTENER AS A FIXED ON-AXIS REFERENCE POINT
- DUE TO THE UNIQUE DESIGN OF THE MODEL 5, SPIKES ARE NOT INCLUDED, NOR ARE THEY RECOMMENDED.

CONNECTIONS

ALL CONNECTIONS SHOULD BE MADE WITH ALL ELECTRONIC EQUIPMENT (AMPLIFIERS, PREAMPLIFIERS) TURNED OFF. THERE ARE TWO TERMINALS AT THE BACK OF THE SPEAKER. THE TERMINALS ARE INSULATED TO ACCEPT A VARIETY OF CABLE TERMINATIONS FOR MOST APPLICATIONS AND TO PREVENT ANY LIKELIHOOD OF ELECTRICAL SHOCK, EVEN WHEN THE SPEAKERS ARE USED WITH THE HIGHEST POWERED AMPLIFIERS. DO NOT USE TOOLS TO TIGHTEN THE BINDING POSTS.

YOU WILL NOTICE THAT THE MODEL 5 HAS TWO SETS OF SPEAKER TERMINALS LOCATED ON THE TOP OF THE BASE OF EACH LOUDSPEAKER. THE SET ON THE LEFT IS FOR THE HIGH FREQUENCIES; THE SET ON THE RIGHT IS FOR THE LOW FREQUENCIES. THERE ARE THREE WAYS TO CONNECT THE LOUDSPEAKERS TO THE AMPLIFIER. PLEASE CAREFULLY OBSERVE THE FOLLOWING GUIDELINES WHEN CONNECTING THE MODEL 5S TO THE AMPLIFIER(S):

- **BI-AMPLIFICATION:** YOU CAN RUN ONE AMPLIFIER CHANNEL FOR THE WOOFERS AND ONE FOR THE TWEETERS. IF YOU CHOOSE THIS OPTION, FIRST, DISCONNECT THE ATTACHED JUMPERS FROM BOTH TERMINALS. NEXT, RUN EXACTLY THE SAME AMPLIFICATION AND EXACTLY THE SAME SPEAKER CABLE AND LENGTH FOR ALL CONNECTIONS.
- **BI-WIRING:** YOU CAN RUN ONE AMPLIFIER CHANNEL FOR EACH LOUDSPEAKER AND SEPARATE SPEAKER WIRES FOR THE WOOFERS AND TWEETERS. IF YOU CHOOSE THIS OPTION, FIRST DISCONNECT THE ATTACHED JUMPERS FROM BOTH TERMINALS. NEXT, RUN EXACTLY THE SAME SPEAKER CABLE AND LENGTH FOR EACH CONNECTION. A "SHOTGUN" TERMINATION WITH A SINGLE AMPLIFIER TERMINATION AND A PAIR OF SPEAKER WIRE TERMINATIONS IS ACCEPTABLE.
- **SINGLE AMPLIFICATION:** MAKE SURE THE INCLUDED JUMPERS ARE SECURELY FASTENED. CONNECT THE AMPLIFIER CHANNEL TO EITHER SET OF BINDING POSTS.

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BREAK-IN

A LOUDSPEAKER IS A MECHANICAL DEVICE AND AS SUCH REQUIRES AN EXTENDED INITIAL PERIOD OF NORMAL USE DURING WHICH A NOTICEABLE IMPROVEMENT IN SOUND QUALITY WILL OCCUR. DO NOT ATTEMPT TO ACCELERATE THE BREAK-IN PROCESS BY PLAYING SINE WAVES, TONE SWEEPS, BREAK-IN CDS OF ANY SORT, OR OTHER GENERATED SIGNALS.

MAINTENANCE

MODEL 5 TENSION-COUPLING MECHANISM TIGHTENING PROCEDURE

YOUR MAGICO MODEL5 LOUDSPEAKERS ARE MANUFACTURED USING AN AIRCRAFT-GRADE ALUMINUM FRONT BAFFLE AND A BALTIC BIRCH CABINET IN AN ACOUSTIC SUSPENSION ENCLOSURE. THE SUSPENSION SYSTEM IS REINFORCED THROUGH A CUSTOM-DEVELOPED TORSION ROD TENSION-COUPLING MECHANISM. IN TRANSIT, AND OVER TIME, THESE MATERIALS EXPAND AND CONTRACT AT DIFFERENT RATES, REQUIRING PERIODIC MAINTENANCE. AFTER YOU RECEIVE YOUR MODEL 5s, AND PERIODICALLY THEREAFTER, PLEASE FOLLOW THE OUTLINED MAINTENANCE PROCEDURE TO INSURE THAT YOUR MODEL 5s ALWAYS PERFORM AT THEIR BEST.

FIRST, LOCATE THE HOLES IN THE TIGHTENING PUCKS ON THE BACK OF THE SPEAKER. NEXT, REMOVE THE CRANKING ROD FROM THE ACCESSORY PACKAGE. THEN, INSERT THE CRANKING ROD INTO THE PUCK AND TIGHTEN IT BY TURNING IT CLOCKWISE AS SHOWN. BE SURE TO TIGHTEN THE PUCKS FIRMLY. DO THIS FOR EACH OF THE PUCKS. WHEN YOU FIRST RECEIVE THE LOUDSPEAKERS, IT MAY REQUIRE SEVERAL ROUNDS OF TIGHTENING BEFORE ARRIVING AT THEIR OPTIMUM LEVEL OF TIGHTNESS. ACHIEVING THIS LEVEL MAY TAKE A COUPLE OF DAYS. ONCE THIS LEVEL IS REACHED, THE PERFORMANCE OF THE LOUDSPEAKER WILL IMPROVE NOTICEABLY. FROM THAT POINT ON, REGULAR MAINTENANCE WILL KEEP THE MODEL 5s SOUNDING GREAT.

Torsion Puck



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Tightening Rod



Tightening Procedure



CARE:

FOR WOOD ENCLOSURES, OCCASIONALLY USE A SOFT, DRY CLOTH TO WIPE OFF DUST. FOR ALUMINUM PANELS USE A LINT-FREE SOFT CLOTH (PROVIDED IN ACCESSORY KIT), DAMPENED ONLY WITH WARM, SLIGHTLY SOAPY WATER (A SMALL DROP OF DISH SOAP WILL DO). DO NOT USE CLEANERS THAT CONTAIN AMMONIA, STRONG SOLVENTS, OR ABRASIVE MATERIALS. USE OF THESE CLEANERS CAN DEGRADE, SCRATCH, OR DESTROY THE FINISH.

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SPECIFICATIONS

DESCRIPTION:.....	4-WAY SEALED ENCLOSURE
FREQUENCY RESPONSE:.....	(+/- 2dB) 22Hz – 40KHz (IN ROOM)
EFFICIENCY (2.8V/1M):.....	89dB/WATT
NOMINAL IMPEDANCE:.....	4 OHMS
POWER HANDLING.....	50-1000 WATTS
DIMENSIONS (HxDxW):.....	53" x 21" x 18"
WEIGHT:.....	360 LBS

LIMITED WARRANTY

DEAR MAGICO PURCHASER,

THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED TO THE HIGHEST QUALITY STANDARDS. HOWEVER, IF SOMETHING DOES GO WRONG WITH THIS PRODUCT, MAGICO, LLC AND ITS NATIONAL DISTRIBUTORS WARRANT THE REPLACEMENT OF DEFECTIVE PARTS INCLUDING LABOR (EXCLUSIONS MAY APPLY) IN ANY COUNTRY SERVED BY AN OFFICIAL MAGICO, LLC DISTRIBUTOR. THIS LIMITED WARRANTY IS VALID FOR A PERIOD OF 3 YEARS FROM THE DATE OF PURCHASE OR TWO YEARS FOR ELECTRONICS INCLUDING AMPLIFIED LOUDSPEAKERS.

TERMS AND CONDITIONS

1. THE WARRANTY IS LIMITED TO THE REPAIR OF THE EQUIPMENT. NEITHER TRANSPORTATION, SHIPPING, NOR ANY OTHER COSTS, NOR ANY RISK FOR REMOVAL, TRANSPORTATION AND INSTALLATION OF PRODUCTS IS COVERED BY THIS WARRANTY.
2. THIS WARRANTY IS ONLY VALID FOR THE ORIGINAL OWNER. IT IS NOT TRANSFERABLE. IT IS VALID ONLY WHEN PURCHASED FROM AN AUTHORIZED MAGICO DEALER. A VALID RECEIPT SHOWING THE PURCHASER'S NAME, DATE OF PURCHASE, AND DEALER INFORMATION MUST BE SUBMITTED WITH ALL WARRANTY CLAIMS.
3. THIS WARRANTY WILL NOT BE APPLICABLE IN CASES OTHER THAN DEFECTS IN MATERIALS AND/OR WORKMANSHIP AT THE TIME OF PURCHASE AND WILL NOT BE APPLICABLE: FOR DAMAGES CAUSED BY INCORRECT INSTALLATION, CONNECTION OR PACKING, FOR DAMAGES CAUSED BY ANY USE OTHER THAN CORRECT USE DESCRIBED IN THE USER MANUAL, NEGLIGENCE, MODIFICATIONS, OR USE OF PARTS THAT ARE NOT MADE OR AUTHORIZED BY MAGICO, LLC, FOR DAMAGES CAUSED BY FAULTY OR UNSUITABLE ANCILLARY EQUIPMENT, FOR DAMAGES CAUSED BY ACCIDENTS, LIGHTNING, WATER, FIRE HEAT, EXTREME WEATHER CONDITION, WAR, PUBLIC DISTURBANCES OR ANY OTHER CAUSE BEYOND THE REASONABLE CONTROL OF MAGICO, LLC AND ITS APPOINTED

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DISTRIBUTORS, FOR PRODUCTS WHOSE SERIAL NUMBER HAS BEEN ALTERED, DELETED, REMOVED OR MADE ILLEGIBLE, IF REPAIRS OR MODIFICATIONS HAVE BEEN EXECUTED BY AN UNAUTHORIZED PERSON.

4. THIS GUARANTEE COMPLEMENTS ANY NATIONAL/REGIONAL LAW OBLIGATIONS OF DEALERS OR NATIONAL DISTRIBUTORS AND DOES NOT AFFECT YOUR STATUTORY RIGHTS AS A CUSTOMER.

5. UNAUTHORIZED DISMANTLING OF THIS PRODUCT WILL RENDER THIS WARRANTY VOID.

6. MAGICO, LLC STRIVES TO MANUFACTURE THE VERY FINEST POSSIBLE EQUIPMENT, AND THEREFORE RESERVES THE RIGHT TO MAKE CHANGES OR IMPROVEMENTS WITHOUT NOTICE.

SERIAL NUMBERS

PLEASE TAKE THE TIME TO RECORD YOUR SPEAKERS' SERIAL NUMBERS BELOW.

DISCLAIMER

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