

*KAR Audio Series*

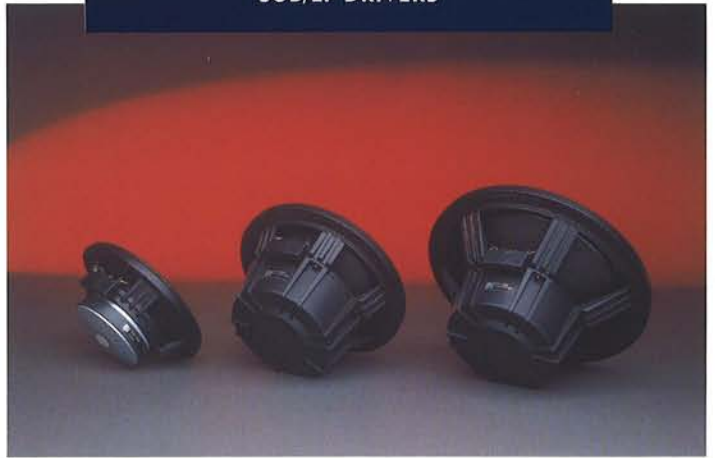


The experience of sound

## Pure Performance on the Road

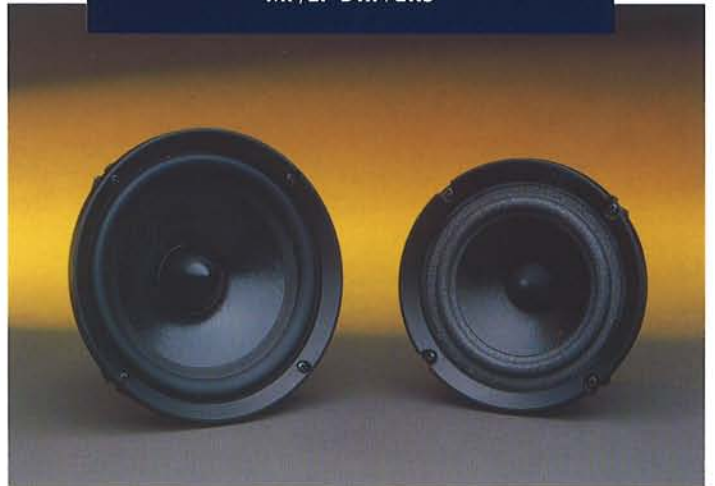
*Y*OU WANT THE TECHNOLOGY THAT PROVIDES THE ULTIMATE STEREO IMAGING IN YOUR CAR - YOU'VE GOT IT! THE SENSATIONAL NEW KEF KAR AUDIO SERIES IS NOT JUST ANOTHER CAR SPEAKER THAT PROMISES THE EARTH - IT DELIVERS - AT A PRICE COMPETITIVE TO MORE TRADITIONAL AUTOMOTIVE PRODUCTS. DESIGNED FOR THOSE CAR AUDIO ENTHUSIASTS WHO DON'T COMPROMISE, IT IS ONE OF THE FEW CAR PRODUCTS AROUND THAT COMBINES INTENSIVE RESEARCH OF THE AUTOMOTIVE ENVIRONMENT WITH THE TECHNOLOGICAL ADVANCES THAT HAVE MADE OUR DOMESTIC HI-FI SPEAKERS AWARD WINNERS THE WORLD OVER. THE RANGE HAS FEATURES WHICH HAVE BEEN SPECIALLY ADAPTED TO TAKE THE CAR AUDIO LISTENING EXPERIENCE BEYOND EXISTING LIMITATIONS; INCLUDING THE FIRST ELLIPTICAL UNI-Q® DRIVER, TWEETERS WITH NEODYMIUM MAGNETS ALLOWING FOR COMPACT SIZE AND EXTRAORDINARY MOUNTING VERSATILITY, SUB WOOFERS IN TUNINGS SUITABLE FOR DIFFERENT TYPES OF ENCLOSURES, AND CROSSOVERS WHICH USE OVERSIZED INDUCTORS AND AUDIO GRADE CAPACITORS TO PRODUCE THE TIGHT ACCURATE BASS THAT KEF IS FAMOUS FOR. THE RESULT IS THE KIND OF SOUND YOU WON'T WANT TO SWITCH OFF LONG AFTER YOUR JOURNEY'S FINISHED. WARNING! WE RECOMMEND LEAVING YOUR ENGINE RUNNING TO AVOID DRAINING YOUR BATTERY!

### SUB/LF DRIVERS



**KAR 160B, KAR 200B, KAR 250B** ■ UNIQUE GOLD PLATED 'INSTALLER FRIENDLY' KEF CONNECTION SYSTEM ■ DIE CAST ALUMINIUM CHASSIS FOR IMPROVED MOUNTING STRENGTH AND HEAT SINKING GIVING UNQUESTIONABLE RELIABILITY ■ KEVLAR COMPOSITE CONE MATERIAL FOR STIFFNESS GIVING FAST BASS RESPONSE ■ BUTYL RUBBER SURROUNDS FOR DURABILITY IN RUGGED AUTOMOTIVE INSTALLATIONS ■ OVERSIZED BLACK ANODIZED ALUMINIUM VOICE COIL FORMER FOR HIGH TEMPERATURE OPERATION - VITAL IN AUTOMOTIVE APPLICATIONS ■ EXTENDED LONG THROW POLE PIECE FOR HIGH SOUND PRESSURE LEVELS WITHOUT VOICE COIL DAMAGE ■ HIGH ENERGY LONG GAP MOTOR DESIGN CONFIGURATION FOR TIGHT CONE CONTROL GIVING SUPERB REPRODUCTION OF TRANSIENTS ■ BERYLLIUM COPPER LEAD OUT WIRES FOR HIGH ENERGY TRANSFER AND RELIABILITY ■ VENTED POLE PIECE FOR COOL AND EFFICIENT OPERATION - AGAIN VITAL IN AUTOMOTIVE APPLICATIONS.

### MF/LF DRIVERS



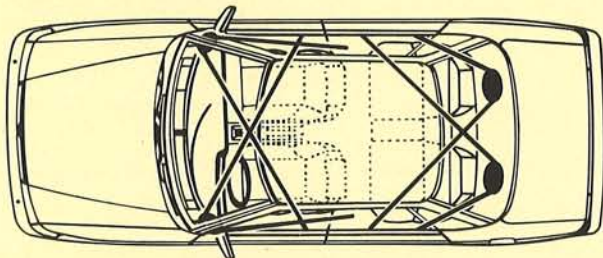
**KAR 160M, KAR 110M** ■ UNIQUE GOLD PLATED 'INSTALLER FRIENDLY' KEF CONNECTION SYSTEM (KAR 160M) ■ INJECTION MOULDED PLASTIC CHASSIS (KAR 110M) DIE CAST ALUMINIUM CHASSIS (KAR 160M) FOR IMPROVED MOUNTING STRENGTH AND HEAT SINKING ■ KEVLAR COMPOSITE CONE MATERIAL (KAR160M) FOR STIFFNESS GIVING FAST BASS RESPONSE ■ BUTYL RUBBER SURROUND FOR IMPROVED DURABILITY (KAR 160M) ■ BULLET WAVE GUIDE TO ELIMINATE INTERFERENCE EFFECTS WHILST PRESERVING THE SOUND FIELD'S IMAGE DEFINITION ■ OVER SIZED BLACK ANODIZED ALUMINIUM VOICE COIL FORMER (KAR 160M) FOR HIGH TEMPERATURE OPERATION ■ LONG THROW POLE PIECE FOR HIGH SOUND PRESSURE LEVELS WITHOUT VOICE COIL DAMAGE (KAR 160M) ■ HIGH ENERGY LONG GAP MOTOR DESIGN CONFIGURATION FOR TIGHT CONE CONTROL ■ BERYLLIUM COPPER LEAD OUT WIRES FOR HIGH ENERGY TRANSFER AND RELIABILITY (KAR 160M) ■ VENTED POLE PIECE FOR COOL AND EFFICIENT OPERATION (KAR 160M).

## UNI-Q® DRIVERS



**KAR 690Q (ELLIPTICAL), KAR 160Q** ■ REVOLUTIONARY UNI-Q® TECHNOLOGY FOR ACCURATE POINT SOURCE SOUND WHEREVER YOU SIT ■ THE FIRST ELLIPTICAL UNI-Q® DRIVER (KAR 690Q) ■ UNIQUE GOLD PLATED 'INSTALLER FRIENDLY' KEF CONNECTION SYSTEM ■ DIE CAST ALUMINIUM CHASSIS FOR IMPROVED MOUNTING STRENGTH AND HEAT SINKING ■ KEVLAR COMPOSITE CONE MATERIAL FOR STIFFNESS GIVING FAST BASS RESPONSE ■ BUTYL RUBBER SURROUND FOR IMPROVED DURABILITY ■ OVERSIZED BLACK ANODIZED ALUMINIUM VOICE COIL FORMER FOR HIGH TEMPERATURE OPERATION ■ EXTENDED LONG THROW POLE PIECE (KAR 690Q), AND LONG THROW POLE PIECE (KAR 160Q) FOR HIGH SOUND PRESSURE LEVELS WITHOUT VOICE COIL DAMAGE ■ HIGH ENERGY LONG GAP MOTOR DESIGN CONFIGURATION FOR HIGH PERFORMANCE CONE CONTROL ■ BERYLLIUM COPPER LEAD OUT WIRES FOR HIGH ENERGY TRANSFER AND RELIABILITY.

## UNI-Q® THE TECHNOLOGY - THE LISTENING BENEFIT



WHEN YOU'RE LISTENING TO CONVENTIONAL SPEAKERS AND YOU MOVE OFF-AXIS THE TONAL BALANCES CHANGES. IF THERE IS ONE PLACE YOU NEED GOOD OFF-AXIS PERFORMANCE FROM YOUR SPEAKERS IT'S IN YOUR CAR - BECAUSE THE DESIGN OF THE AUTOMOTIVE ENVIRONMENT AND SPEAKER INSTALLATION POSITIONS DICTATE THAT THE LISTENER ALWAYS SITS OFF-AXIS. KEF HAS THE ULTIMATE ANSWER.

**UNI-Q® - NO OTHER SYSTEM CAN PROVIDE THE CRYSTAL CLEAR REPRODUCTION OF THE DYNAMICS AND SUBTLETIES OF REAL MUSIC.**

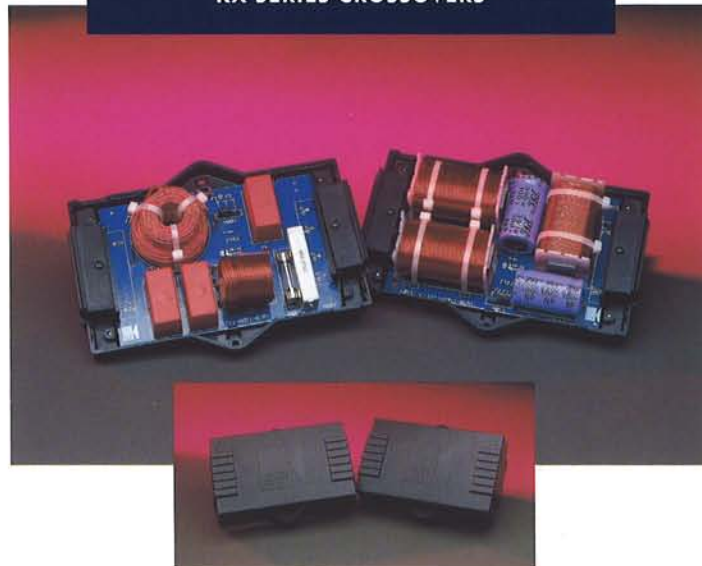
KEF HAS PIONEERED THE COINCIDENT SOURCE DRIVE UNIT, WHICH UNLIKE CONVENTIONAL SPEAKERS, PLACES THE TWEETER IN THE MIDDLE OF THE WOOFER CONE IN SUCH A WAY THAT THE ACOUSTIC CENTRES COINCIDE. THE DIRECTIVITY OR 'Q' OF THE WOOFER AND TWEETER IS MATCHED AT THE CRITICAL CROSSOVER POINT - HENCE THE NAME UNI-Q® - AND SOUND IS REPRODUCED WITH ASTONISHINGLY ACCURATE TONAL BALANCE THROUGHOUT THE CAR. THIS UNIQUE DESIGN GIVES THE LISTENER THE ULTIMATE SONIC BENEFIT; AS NEAR-PERFECT SOUND AS IS POSSIBLE IN YOUR CAR.

## HF DRIVERS



**KAR 25U, KAR 19U** ■ KEF SPECIALLY DESIGNED DOME MATERIAL AND VOICE COIL DESIGN TO ENHANCE STEREO IMAGING EVEN UNDER VERY HIGH SOUND PRESSURE LEVELS ■ SPECIAL USE OF NEODYMIUM MAGNET STRUCTURE WITH 10 TIMES THE POWER OF CONVENTIONAL FERRITE FOR COMPACT SIZE AND HIGH ENERGY EFFICIENCY ■ FERRO SOUND® TECHNOLOGY FEATURING FERROFLUID COOLING FOR RELIABLE HIGH POWER OPERATION ■ UNIQUE UNIVERSAL 'EYEBALL' MOUNTING FOR FLUSH, SURFACE AND IN-DASH MOUNTING ■ FLUSH MOUNTING ALLOWS FOR VARIABLE ANGLE ■ SURFACE MOUNTING ALLOWS FOR FIXED ANGLE MOUNTING WITH WEDGE TO MEET EVEN THE MOST AWKWARD INSTALLATION POSITIONS ■ DASH MOUNTING BRACKET IS INCLUDED FOR 4 X 6IN AND 3.5IN OPTIONS.

## KX SERIES CROSSOVERS



**KX3, KX7** ■ KEF'S FOREMOST CROSSOVER TECHNOLOGY APPLIED TO CAR AUDIO RESULTING IN THE ULTIMATE CAR AUDIO CROSSOVERS ■ PRECISION AUDIOPHILE COMPONENTS ALLOW FOR PERFECT STEREO IMAGING ■ GLASS FILLED EPOXY PCB FOR HIGH RELIABILITY IN RUGGED ENVIRONMENTS ■ OVERSIZED LAMINATED CORE INDUCTORS ALLOW FOR UNIQUELY HIGH POWER OPERATION WITHOUT SATURATION (KX7) ■ LITZ WIRING OPEN AIR INDUCTORS AND HARMONICALLY DAMPED AUDIOPHILE CAPACITORS (KX3) ■ UNIVERSAL FREQUENCY SELECTION FOR LOW PASS AND HIGH PASS INSTALLATIONS ■ COMPETITION DESIGNED FOR VERY HIGH POWER INSTALLATIONS - NO OTHER BRAND COMES CLOSE ■ UNIQUE GOLD PLATED 'INSTALLER FRIENDLY' KEF CONNECTION SYSTEM ■ UNUSUAL REVERSIBLE COVER FOR RE-ORIENTATION DURING INSTALLATION ENSURES THE VISUAL PRESENTATION MATCHES THE SUPERB SONICS ■ KX3 AND KX7 CAN BE 'BOOT STRAPPED' TOGETHER FOR INSTALLATION EASE AND MOUNTING VERSATILITY.



**SYSTEM 110.2**

**KAR 19U, KX3, KAR 110M**

AN EXAMPLE OF AN ENTRY LEVEL AUDIOPHILE SYSTEM SPECIFICALLY DESIGNED FOR FRONT DOOR OR REAR DECK INSTALLATION, THIS OPTION OFFERS EXCELLENT FULL RANGE PERFORMANCE AND ALLOWS FOR EASY UPGRADING OR SYSTEM BUILDING IN THE FUTURE. THE INCLUSION OF THE KAR 19U MAKES THIS SYSTEM ESPECIALLY SUITABLE FOR SMALL SPACES.

**SYSTEM 160.2**

**KAR 160M, KX3, KAR 25U**

A HIGHER POWER HANDLING SYSTEM USING THE KAR 160M DRIVER FOR LOWER BASS AND THE KAR 25U TWEETER FOR A LOWER CROSS-OVER POINT GIVING SUPERIOR STAGING.



**SYSTEM 160Q**

**KAR 160Q, KX3**

THE UNIQUE KEF 'POINT SOURCE' DRIVER PARTNERED WITH AN AUDIOPHILE GRADE MATCHING CROSS-OVER. THE SUPERB OFF-AXIS PERFORMANCE GIVES AN INCREDIBLY REALISTIC 'YOU ARE THERE' PORTRAYAL OF RECORDED SOUND.

**SYSTEM 690Q**

**KAR 690Q, KX3**

THE FIRST EVER ELLIPTICAL UNI-Q DRIVER GIVES REAL BENEFITS IN TERMS OF BASS EXTENSION AND POWER HANDLING IN A COMPACT DESIGN. TEAMED UP WITH THE KX3 CROSS-OVER FOR SMOOTH INTEGRATION OF WOOFER AND TWEETER, THE KAR 690Q IS PARTICULARLY SUITED TO FRONT DOOR AND REAR DECK APPLICATIONS IN CARS AND TRUCKS.



KEF AUDIO (UK) LTD HAVE CREATED THE SYSTEM PACKAGES DETAILED ABOVE TO PROVIDE OPTIMUM PERFORMANCE IN YOUR VEHICLE. PLEASE OBSERVE THE FOLLOWING INFORMATION ON COMPONENT MATCHING. THE KX3 CROSSOVER HAS BEEN SONICALLY MATCHED TO THE KAR 19U AND KAR 25U TWEETERS. THE KX3 ALSO INCLUDES PROTECTION FOR THE KAR 19U, KAR 25U AND THE 25MM TWEETER IN THE KAR 160Q/KAR 690Q. THE KX3 SHOULD BE SET AT 3.3kHz FOR THE KAR 19U AND 2.5kHz FOR THE KAR 25U/KAR 160Q/KAR 690Q.

## SPECIFICATIONS

### SUB/LF DRIVERS

**KAR 160B** ■ WOOFER CONE SIZE 160MM/6.5IN ■ ENCLOSURE TYPE: FREE AIR ■ FREQUENCY RESPONSE: 40Hz-4.5kHz  $\pm$  3dB ■ RECOMMENDED CROSSOVER 100-150Hz ■ SENSITIVITY: 90dB, 2.83V AT 1m ■ IMPEDANCE: 4 $\Omega$  ■ AMPLIFIER REQUIREMENTS: 5W MIN ■ POWER HANDLING: 100W ■ OUTSIDE DIAMETER: 182MM/7.7IN ■ MOUNTING DEPTH: 68MM/2.68IN.

**KAR 200B** ■ WOOFER CONE SIZE: 204MM/8IN ■ ENCLOSURE TYPE: FREE AIR ■ FREQUENCY RESPONSE: 20Hz-2kHz  $\pm$  3dB ■ RECOMMENDED CROSSOVER: 80-130Hz ■ SENSITIVITY: 90dB, 2.83V AT 1m ■ IMPEDANCE: 4 $\Omega$  ■ AMPLIFIER REQUIREMENTS: 12W MIN ■ POWER HANDLING: 150W ■ OUTSIDE DIAMETER: 216MM/8.5IN ■ MOUNTING DEPTH: 101MM/4IN.

**KAR 250B** ■ WOOFER CONE SIZE: 254MM/10IN ■ ENCLOSURE TYPE: FREE AIR ■ FREQUENCY RESPONSE: 20-500Hz  $\pm$  3dB ■ RECOMMENDED CROSSOVER: 70-120Hz ■ SENSITIVITY: 91dB, 2.83V AT 1m ■ IMPEDANCE: 4 $\Omega$  ■ AMPLIFIER REQUIREMENTS: 12W MIN ■ POWER HANDLING: 200W ■ OUTSIDE DIAMETER: 264MM/10.4IN ■ MOUNTING DEPTH: 115MM/4.35IN.

### MF/LF DRIVERS

**KAR 110M** ■ CONE SIZE: 110MM/4.33IN ■ ENCLOSURE TYPE: FREE AIR ■ FREQUENCY RESPONSE: 50Hz-5kHz  $\pm$  3dB ■ RECOMMENDED CROSSOVER: LOW PASS: 100-150Hz, HIGH PASS: 3.3kHz ■ SENSITIVITY: 88dB, 2.83V AT 1m ■ IMPEDANCE: 4 $\Omega$  ■ AMPLIFIER REQUIREMENTS: 5W MIN ■ POWER HANDLING: 70W ■ MOUNTING DEPTH: 54MM/2.12IN.

**KAR 160M** ■ CONE SIZE: 160MM/6.5IN ■ ENCLOSURE TYPE: FREE AIR ■ FREQUENCY RESPONSE: 40Hz-5kHz  $\pm$  3dB ■ RECOMMENDED CROSSOVER: LOW PASS: 70-130Hz, HIGH PASS: 2.5kHz ■ SENSITIVITY: 91dB, 2.83V AT 1m ■ IMPEDANCE: 4 $\Omega$  ■ AMPLIFIER REQUIREMENTS: 5W MIN ■ POWER HANDLING: 100W ■ MOUNTING DEPTH: 65MM/2.56IN.

### UNI-Q® DRIVERS

**KAR 160Q** ■ WOOFER CONE SIZE: 160MM/6.5IN ■ TWEETER SIZE: 25MM/1IN ■ ENCLOSURE TYPE: FREE AIR ■ FREQUENCY RESPONSE: 40Hz-20kHz  $\pm$  3dB ■ RECOMMENDED CROSSOVER: LOW PASS: 70-150 Hz, HIGH PASS: 2.5kHz ■ SENSITIVITY: 90dB, 2.83V AT 1m ■ IMPEDANCE: 4 $\Omega$  ■ AMPLIFIER REQUIREMENTS: 12W MIN ■ POWER HANDLING: 100W ■ MOUNTING DEPTH: 65MM/2.56IN.

**KAR 690Q** (ELLIPTICAL) ■ WOOFER CONE SIZE: 204MM/8IN  $\times$  130MM/5IN ■ TWEETER SIZE: 25MM/1IN ■ ENCLOSURE TYPE: FREE AIR ■ FREQUENCY RESPONSE: 30Hz-20kHz  $\pm$  3dB ■ RECOMMENDED CROSSOVER: LOW PASS: 70-150Hz, HIGH PASS: 2.5kHz ■ SENSITIVITY: 90dB, 2.83V AT 1m ■ IMPEDANCE: 4 $\Omega$  ■ AMPLIFIER REQUIREMENTS: 12W MIN ■ POWER HANDLING: 120W ■ MOUNTING DEPTH: 78MM/3.07IN.

### HF DRIVERS

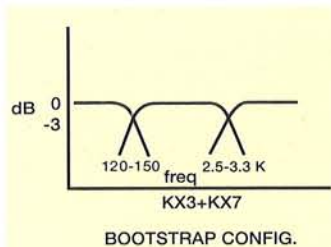
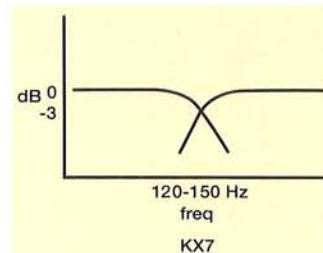
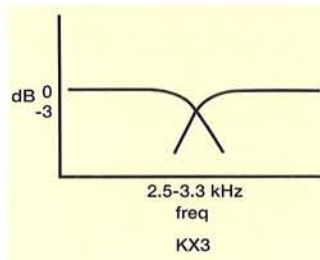
**KAR 19U** ■ TWEETER SIZE: 19MM/0.75IN ■ FREQUENCY RESPONSE: 3-20kHz  $\pm$  3dB ■ RECOMMENDED CROSSOVER: 3.3kHz ■ SENSITIVITY: 90dB, 2.83V AT 1m ■ IMPEDANCE: 4 $\Omega$  ■ AMPLIFIER REQUIREMENTS: 5W MIN ■ POWER HANDLING: 100W (SYSTEM).

**KAR 25U** ■ TWEETER SIZE: 25MM/1IN ■ FREQUENCY RESPONSE: 2-20kHz  $\pm$  3dB ■ RECOMMENDED CROSSOVER: 2.5kHz ■ SENSITIVITY: 92dB, 2.83V AT 1m ■ IMPEDANCE: 4 $\Omega$  ■ AMPLIFIER REQUIREMENTS: 5W MIN ■ POWER HANDLING: 150W (SYSTEM).

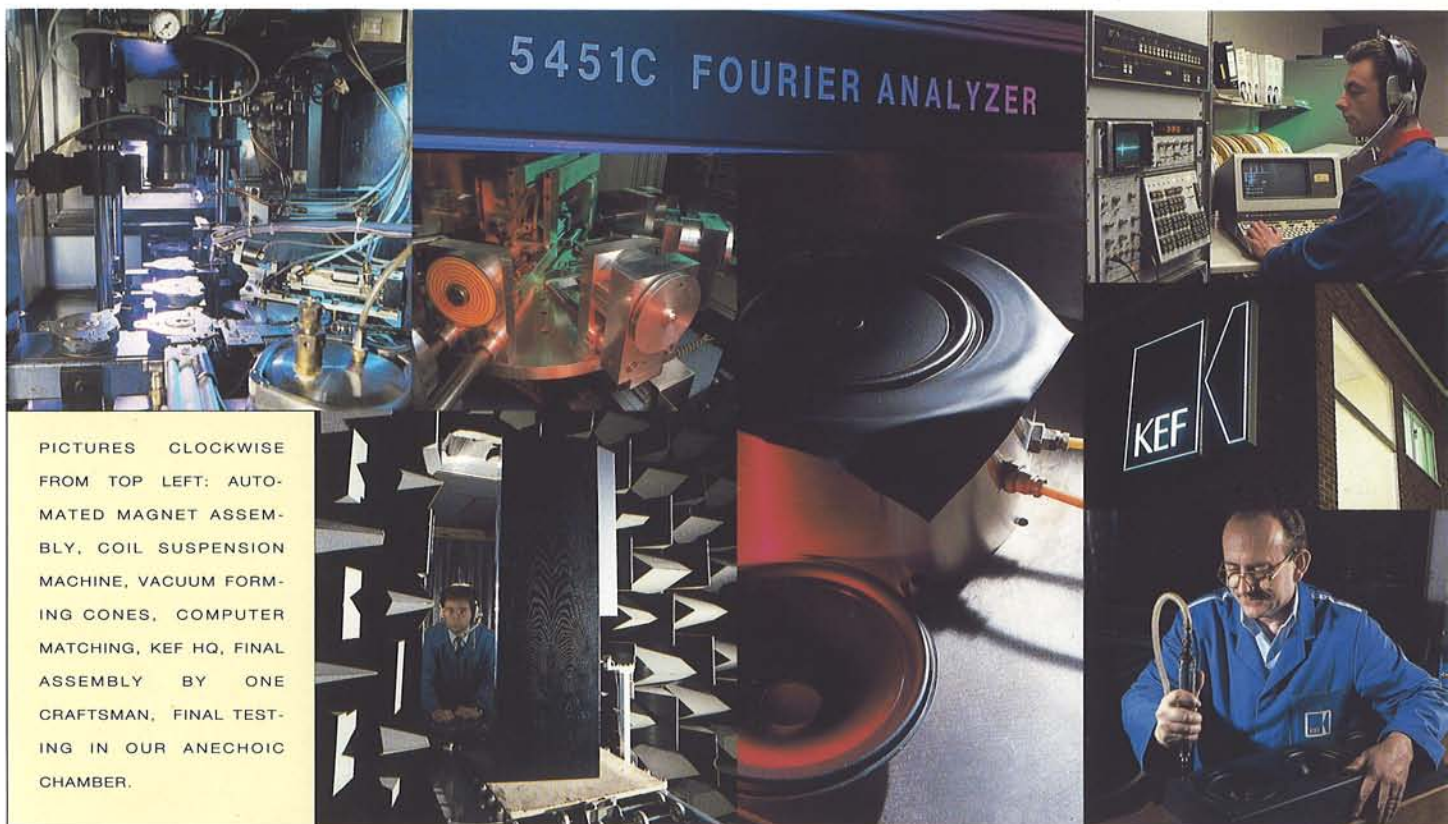
### KX SERIES CROSSOVERS

**KX3** ■ CROSSOVER POINTS: 2.5/3.3kHz AT 12dB/OCT ■ POWER HANDLING: 150W.

**KX7** ■ CROSSOVER POINTS: 120/150Hz AT 12dB/OCT ■ POWER HANDLING: 200W.



*F*OR OVER THIRTY YEARS, KEF LOUDSPEAKERS HAVE PUSHED FORWARD THE BOUNDARIES OF TECHNOLOGY WHILE RETAINING THE QUALITIES OF HAND-BUILT BRITISH HI-FI EQUIPMENT. EACH OF OUR INNOVATIONS AND EVERY STAGE OF OUR MANUFACTURING PROCESS SHARE ONE SINGLE AIM; THAT MUSIC SHOULD BE HEARD THE



PICTURES CLOCKWISE FROM TOP LEFT: AUTOMATED MAGNET ASSEMBLY, COIL SUSPENSION MACHINE, VACUUM FORMING CONES, COMPUTER MATCHING, KEF HQ, FINAL ASSEMBLY BY ONE CRAFTSMAN, FINAL TESTING IN OUR ANECHOIC CHAMBER.

WAY IT'S MEANT TO BE, WHETHER IT'S IN YOUR HOME OR YOUR CAR. FROM THE COMPANY'S FORMATION IN 1961, KEF WERE PIONEERS IN THE (THEN) BRAVE NEW WORLD OF HI-FI, INTRODUCING NEW DIAPHRAGM MATERIALS, COMPACT TWEETER DESIGNS, AND BREAKING NEW GROUND IN SOUND REPRODUCTION AND LOUDSPEAKER CONSTRUCTION. AND THE INNOVATIONS CONTINUE. OUR MOST RECENT HI-FI ADVANCES INCLUDE THE REVOLUTIONARY UNI-Q® DRIVER WHICH WE HAVE NOW INCORPORATED INTO OUR KEF KAR AUDIO SERIES - WITH THE FIRST ELLIPTICAL UNI-Q® DRIVER. UNLIKE MANY OTHER BRANDS, KEF DEVELOPS, USES AND PROMOTES REAL SCIENTIFIC ADVANCES WHICH PROVIDE GENUINE SONIC BENEFITS TO YOU, THE LISTENER. ONCE YOU EXPERIENCE THE SOUND OF KEF IN YOUR CAR, YOU WON'T WANT TO BE WITHOUT IT.



**The experience of sound**

KEF AUDIO (UK) LIMITED, ECCLESTON ROAD, TOVIL, MAIDSTONE, KENT ME15 6QP UK  
KEF ELECTRONICS OF AMERICA, INC, 89 DOUG BROWN WAY, HOLLISTON, MA. 01746 USA

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