

FOSTEX



THE THOUGHT BEHIND THE SYSTEM THAT COMBINES TO ENCOURAGE RICHER SOUND.

FOSTEX specializes in the manufacture of a large range of audio equipment including speaker systems, speaker units, microphones, and stereo headphones that constitute the whole of the world of sound.

Under the slogan mentioned above, we have exerted every effort to live up to our motto through research and development and providing products which excel in performance and reliability.

In order to fulfill the spirit of this motto of ours, it is absolutely necessary for us to be equipped with an integrated manufacturing system ranging from the research and development of basic materials to the manufacture of major component parts and the assembly of products. Under this integrated manufacturing system, our intention at all times has been to seek the ultimate in audio equipment which is musically rich and excellent in performance and reliability, through repeated testing under all aspects and thorough scientific measuring. FOSTEX always sees to it that its products are strictly standardized and true to the numerical values indicated thereon so that users can be fully assured of their reliability.

FOSTEX laboratory series products —speaker systems, speaker units, horn drivers, horns and dividing networks are developed for professional use application because of its higher grade in technical performance, reliability and durability. In searching of accuracy for reproduction of original sound, a membrane of cone speakers are manufactured by our factory with our own technology.

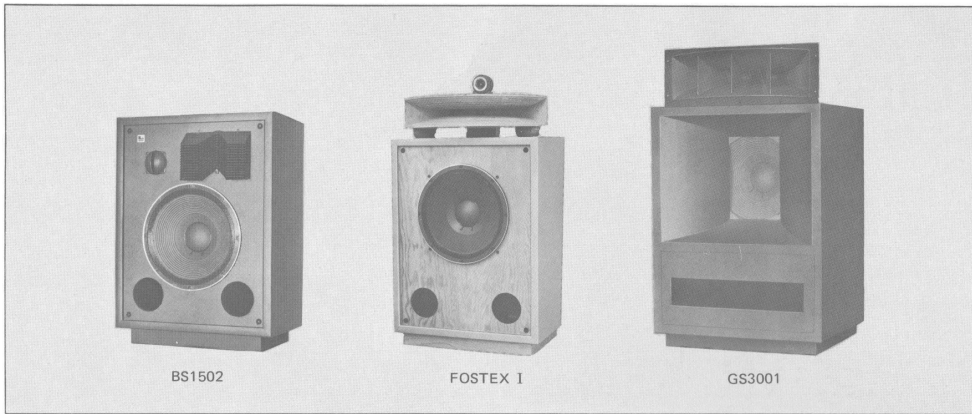
►RECOMMENDED APPLICATION OF LABORATORY SERIES SPEAKER SYSTEMS

Application	PA103	PA203	PA251	BS1502	FOSTEX I	GS3001
Auditorium — Mid size	○	○				○
Auditorium — Large size	○	○	○			
Auditorium — Outside			○			
Theater			○			○
Discotheque		○	○	○		○
Night club		○		○		○
Music tee room		○		○	○	
Recording studio				○	○	
Meeting room	○					
HiFi home use					○	

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► SPEAKER SYSTEM



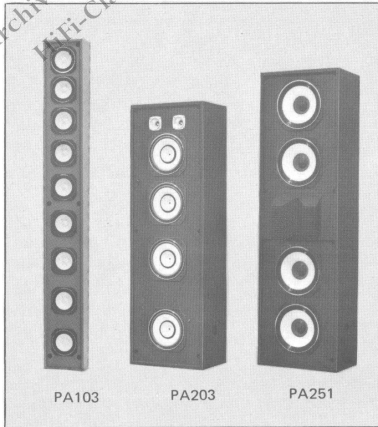
● FEATURE

The laboratory series units and accessories are the materials necessary for the creation of sound of higher quality, which are intended not only for large-size home use systems, but also for public-address application, entertainment/industrial use systems. **BS1502, FOSTEX I, GS3001** are designed as a top grade systems for its application with high efficient, flat response, less distorted woofer model **L475**.

Model	Structure	Applications
BS1502	L475/D252/H850/ K100/T825/N313/BK150	Stadio monitor Discotheque
FOSTEX I	L475/D252/H325/T925/ N310/BK150	HiFi home use Music tee room
GS3001	L475/D252/H350 N211/GK300	Auditorium Theator, Discotheque

Model	System	Imp.	Frequency range	Efficiency	Power handling	Crossover frequency	Enclosure volume	Finish	Net weight	Enclosure size(mm)
BS1502	3 WAY Bass reflex	8 ohms	30~20kHz	100dB	150W(Mus.)	800/7kHz	150ℓ	Plywood black	46.5kg	628Wx860Hx448D
FOSTEX I	3 WAY Bass reflex	8 ohms	25~30kHz	100dB	150W(Mus.)	750/8kHz	150ℓ	black Pine natural	49.kg	628Wx860Hx448D
GS3001	2 WAY Front-load horn	8 ohms	35~20kHz	103dB	150W(Mus.)	800Hz	—	Plywood black	55kg	628Wx850Hx550D

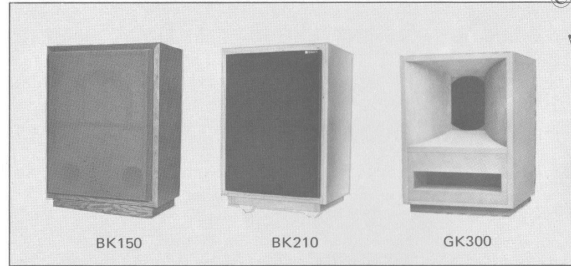
► POLAR SYSTEM



The polar system **PA103, PA203** and **PA251** are a column-type ideal for use in sound equipment, providing a tone quality of high articulation and excellent input resistance. They are also ideal for public address loudspeakers.

Model	Imp.	Frequency range	Efficiency	Power handling	Crossover frequency	Dispersion (HxV)	Speaker unit	Finish	Net weight	Size (mm)
PA103	8 ohms	150~13kHz	100dB	225W(Mus.)	—	115° x 15°	FP103x9 FP203x4 FT20Hx2	gray	15kg	170Wx1,340Hx120D
PA203	8 ohms	55~18kHz	99dB	230W(Mus.)	7kHz	90° x 20°	FP253x4 FT60Hx2 K100x2	black	36kg	400Wx1,262Hx270D
PA251	8 ohms	50~18kHz	99dB	260W(Mus.)	7kHz	140° x 20°	—	black	54kg	440Wx1,513Hx300D

► ENCLOSURE/ENCOLOSURE KIT

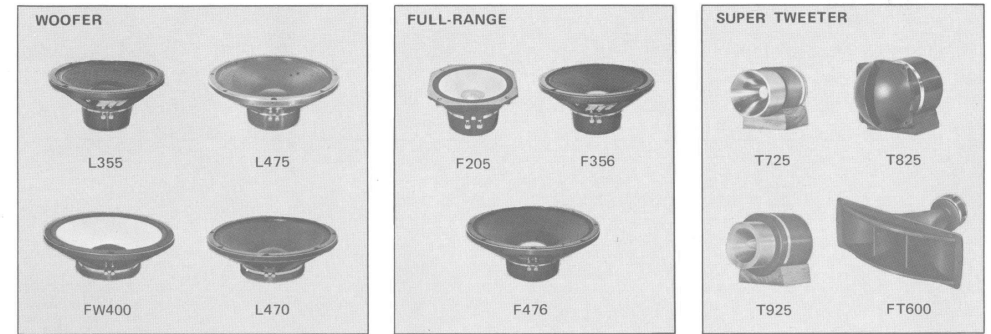


The **BK100, BK150** and **BK210** are multi-kits specially designed to permit ease of fabricating a natural wood finish enclosure to build up a speaker system. The necessary materials supplied include pieces of plywood of fine quality with exact thickness, fabricating adhesive, wood screws, glass wool, and detachable front grill, so that an excellent enclosure may be assembled without the use of regular carpenter's tools.

GK300 and **GK400** are available only in fabricated box.

Model	Material/Volum	Finish	W	Size H	D	Weight	Plywood thickness	Remark
BK100	100ℓ	Black	450	800	400	20kg	19mm	Kit
BK150	Pine/150ℓ	Natural	628	860	448	26kg	19mm	Kit
BK210	Pine/200ℓ	Natural	656	1,020	555	52kg	38mm	Kit
GK300	Pine	Natural	628	850	550	33kg	19mm	Fabricated
GK400	Pine	Black	800	1,150	600	55kg	19mm	Fabricated

► WOOFER/FULL-RANGE/SUPER TWEETER



● WOOFER/FULL-RANGE UNITS

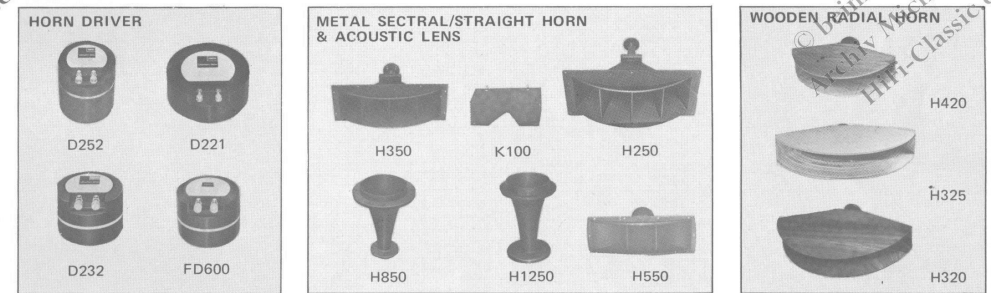
FOSTEX laboratory series woofer and full-range speaker units are developed in high efficient magnet circuit with light weight and enough stiffness of diaphragm assembly for reproducing sharp transient and airy sound.

● SUPER TWEETERS/HORN TWEETER

T725, T825, T925 are developed as super tweeters for multi combination with FOSTEX laboratory series woofer, driver and horn. **T825** has an extremely wide dispersion by its design. **FT600** is a high power exponential horn for public-address and HiFi use.

Model	Dia.	Imp.	Resonance frequency	Frequency range	Efficiency	Power handling	Crossover frequency	Voice coil Dia./material	Magnet weight	Net weight
L475	40cm	8 ohms	25Hz	f ₀ ~3.5kHz	100dB	150W(Mus.)	2k or under	10cm/alumi.	1,510g(ALNICO)	8.6kg
L470	40cm	8 ohms	25Hz	f ₀ ~3.5kHz	99dB	150W(Mus.)	2k or under	10cm/alumi.	1,850g	8.6kg
FW400	40cm	8 ohms	20Hz	f ₀ ~2.5kHz	95dB	150W(Mus.)	1.5k or under	10cm/copper	1,850g	7.3kg
L355	30cm	8 ohms	40Hz	f ₀ ~5kHz	98dB	100W(Mus.)	2k or under	8cm/alumi.	1,100g(ALNICO)	5.7kg
F476	40cm	8 ohms	50Hz	f ₀ ~6kHz	100dB	150W(Mus.)	—	10cm/alumi.	1,510g(ALNICO)	8.6kg
F356	30cm	8 ohms	50Hz	f ₀ ~7kHz	100dB	100W(Mus.)	—	8cm/alumi.	1,100g(ALNICO)	5.7kg
F205	20cm	8 ohms	38Hz	f ₀ ~20kHz	93dB	45W(Mus.)	—	5cm/alumi.	730g(ALNICO)	4.1kg
T725	—	8 ohms	—	2k~20kHz	102dB	50W(Mus.)	2.5k or over	2cm/alumi.	350g(ALNICO)	2.05kg
T825	—	8 ohms	—	2k~20kHz	102dB	50W(Mus.)	4.0k or over	2cm/alumi.	240g(ALNICO)	2.1kg
T925	—	8 ohms	—	5k~40kHz	108dB	50W(Mus.)	7.0k or over	2cm/alumi.	240g(ALNICO)	1.78kg
FT600	—	8 ohms	—	800~15kHz	104dB	30W(Mus.)	1.2k or over	2.54cm/copper	386g	2.6kg

► HORN DRIVER/HORN



● HORN DRIVERS

The **D252** is a wide-range type covering a wide frequency range. The **D232** is a wide-range driver that permits ease of operation. The **D221** is a powerful type intended for the middle register. **FD600** is economical version of **D232**. Edgewound ribbon voice coil is used in all models.

● HORNS

The **H320** and **H420** are radial horns made of Eurasian teak wood with a fine grain finish. The **H325** is a radial horn made of pine plywood. The **H250** and **H350**, largesized sectoral horns of light alloy, allow you to form a powerful horn speaker. The **H850** and **H1250**, straight horns of light alloy, are ideal for forming a 2 way system incorporating an extended range woofer. The **K100**, an acoustic lens, is intended for use in combination with a horn tweeter or horn speaker incorporating the **H850** or **H1250** to help improve the horizontal directional characteristics. Select either of these types depending on the respective uses intended, such as for home use large-size systems, business use speakers, and stage public address. **H550** is sectoral horns in compact size.

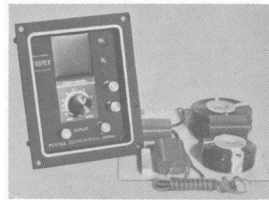
Model	Material	Cut-off frequency	Dia. of throat	Dispersion (horizontal)	Net weight	Size (mm)
H320	teak	320Hz	25.4mm	140°	8.1kg	643Wx115Hx403D
H325	pine	340Hz	25.4mm	140°	6.0kg	600Wx120Hx377.5D
H420	teak	420Hz	25.4mm	140°	3.2kg	444Wx90Hx292.5D
H250	light alloy	250Hz	25.4mm	90°	12.4kg	700Wx320Hx600D
H350	light alloy	350Hz	25.4mm	90°	6.8kg	560Wx200Hx523.5D
H550	light alloy	600Hz	25.4mm	120°	1.6kg	330Wx120Hx230D
H850	light alloy	850Hz	25.4mm	—	1.5kg	φ180x320D
H1250	light alloy	1,250Hz	25.4mm	—	0.8kg	φ120x175D
K100	iron	—	—	90°	—	255Wx70Hx131D

Model	Imp.	Frequency range	Efficiency	Power handling	Crossover frequency	Dia. of throat	Voice coil dia.	Diaphragm material	Magnet weight	Net weight
D252	8 ohms	500~20kHz	104dB	50W (Mus.)	600Hz or over	25.4mm	4cm	aluminum	650g (ALNICO)	3.3kg
D232	8 ohms	500~20kHz	104dB	50W (Mus.)	600Hz or over	25.4mm	4cm	aluminum	334g	1.4kg
D221	8 ohms	250~10kHz	106dB	50W (Mus.)	500Hz or over	25.4mm	5cm	glass fiber	830g	3.3kg
FD600	8 ohms	500~18kHz	104dB	50W (Mus.)	800Hz or over	25.4mm	4cm	aluminum	334g	1.4kg

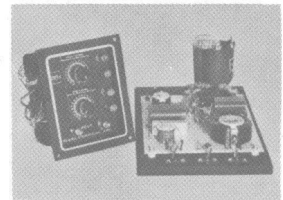
►DIVIDING NETWORKS

In order to form an excellent speaker system, it is absolutely necessary to use high performance dividing network parts, such as, for example, a large-sized inductor incorporating a cut core of low DC resistance, high-performance air-core inductor of large size, film capacitor that permits minimized loss or leakage, and an attenuator R80 of high power input resistance, capable of controlling inputs. The R810 is an attenuator kit of high power input, which incorporates a special transformer to permit attenuation per dB step down to -20 dB.

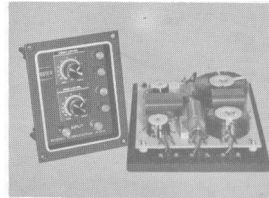
Model	Type	Imp.	Crossover frequency	Power handling	Attenuator
N211	2 way	8 ohms	800Hz	150W(Mus.)	Variable (R80)
N221	2 way	8 ohms	1,200Hz	150W(Mus.)	Variable (R80)
N231	2 way	8 ohms	3,000Hz	150W(Mus.)	Variable (R80)
N312	3 way	8 ohms	1,200/7kHz	150W(Mus.)	Variable (R80)
N313	3 way	8 ohms	800/7kHz	150W(Mus.)	Variable (R80)
N322	3 way	8 ohms	600/7kHz	150W(Mus.)	Variable (R80)
N310	3 way	8 ohms	750/7kHz	150W(Mus.)	1dB step 0~-20dB (R810)
N320	3 way	8 ohms	600/7kHz	150W(Mus.)	1dB step 0~-20dB (R810)



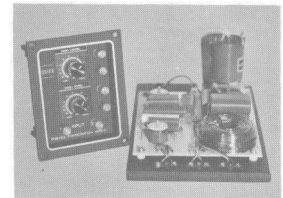
N211/N222



N312/N313



N322



N310/N320

►RECOMMENDED COMBINATION MANUAL OF LABORATORY SERIES SPEAKER UNITS

Enclosure	Woofers	Crossover freq.	Mid-Hi Driver & horn	Crossover freq.	Super tweeter	Remark	
Bass reflex 90~100q BK100	F356	1,200Hz			FT600	2 WAY	
	F476	1,200Hz			FT600	2 WAY	
	FW400	800Hz	D252	H420		2 WAY	
	L355	1,200Hz	D252	H850 K100	7,000Hz	T825	3 WAY
	F476	1,200Hz	FD600	H550	7,000Hz	T825	3 WAY
	FW400	800Hz	D232	H420	7,000Hz	T825	3 WAY
Bass reflex 150~200q BK150 BK210	L475	N31	D252	H325	N31	T925	FOSTEX I
		800Hz	D232	H850 K100	7,000Hz	T825	BS1502
		600Hz	D221	H320 H325	7,000Hz	T725	3 WAY
Front-load horn GK300	L475	800Hz	D252	H350	7,000Hz	T925	GS3001
			D232				
GK400	L470	600Hz	D221	H320	7,000Hz	T725	3 WAY

FOSTEX CORPORATION Tokyo, Japan
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