

KENYON

Presents

The SILVER GROUP

KENYON Transformer Co., Inc., presents this line as a low-priced high performance transformer and reactor group for public address amplifier, amateur radio and service applications. The Silver Group units are built to the same rigid standards of quality and dependability Kenyon has maintained throughout its transformer products. Kenyon pioneers again in offering not just another transformer line but a group of units manufactured for a market which defines an economical transformer as a low-priced unit designed electrically and mechanically to the precise application with no elaborations.

Although built for service with no frills, the Silver Group has numerous distinctive advantages heretofore found only in more expensive units:

Each Silver Group transformer and reactor is enclosed in an attractive silver-finished case which acts as an electrostatic and electromagnetic shield.

Each Silver Group transformer and reactor is poured with a humidity-proof compound, an important factor in insuring long life and dependable operation.

Each Silver Group unit can be mounted with a minimum of effort—no lugs to short to the chassis. Mounting is accomplished by drilling two holes. Two more holes provide for bringing the lead terminals through the chassis.

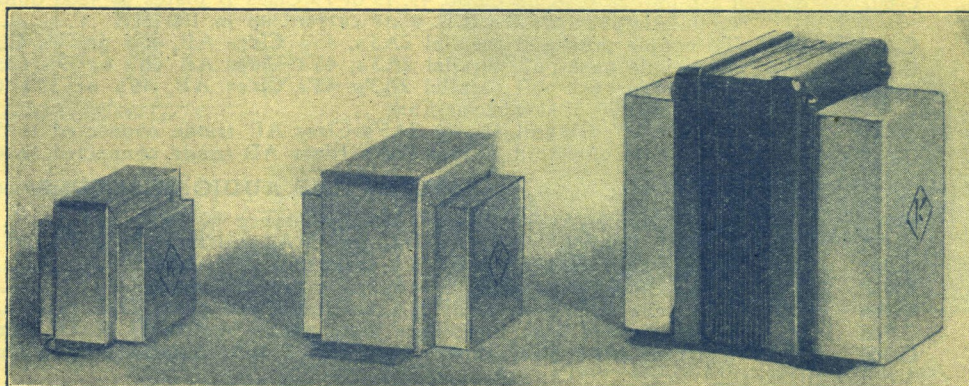
Each Silver Group power transformer has been constructed with every precaution taken to insure lasting service. All of these units are double-vacuum impregnated under insulating varnish, a practice heretofore limited only to transformers for use in tropical climates where atmospheric conditions were particularly adverse.

Each Silver Group power transformer has a complete electrostatic shield between primary and secondaries.

All audio units have been designed for maximum electrical versatility; for example, unit C100S can be used to couple any 50 ohm, 200 ohm or 500 ohm source to any 50 ohm, 200 ohm or 500 ohm load.

All Silver Group units are popularly priced.

KENYON TRANSFORMER CO., Inc.
840 BARRY STREET, NEW YORK, N. Y.





LINE TO LINE TRANSFORMERS

Type	Case		List Price
C-100S	2	To couple 50, 125, 200, or 500 ohm line (200 and 500 ohms center tapped) to 50, 200 or 500 ohm line (low level).....	3.00
C-101	1	To couple velocity ribbon microphone to 200 or 500 ohm line	2.60
C-102	1	To couple 1,000 or 4,000 ohm source to 200 or 500 ohm line (low level)	2.10
C-103	3	To couple 15, 8 or 4 ohm voice coil to 500 or 125 ohm line. Level—20 watts	3.20
C-104	1	Crystal microphone to 200 or 50 ohm line	2.30

LINE TO GRID TRANSFORMERS

C-200	1	Single button microphone to single grid.....	2.30
C-201	1	Double button microphone to single grid.....	2.30
C-202	1	High impedance pickup to single grid.....	2.30
C-203	1	Velocity ribbon microphone to single grid	2.60
C-204S	2	To couple any 200 or 500 ohm line (200 and 500 ohms center tapped) to single or push-pull grids.	3.00

INTERMEDIATE COUPLING TRANSFORMERS (CLASS A)

C-300	1	Single plate (a) to single grid. Ratio (c) 1:4	2.20
C-301	1	Single plate (a) or single button microphone to single grid. Designed for use in transceiver..	2.60
C-302S	2	Single plate (a) to single grid. Ratio (c) 1:3	3.00
C-303	1	Single plate (a) to push-pull grids	2.20
C-304S	2	Single plate (a) to push-pull grids.....	3.00
C-305S	3	To couple power detector plate to push-pull grids	3.50
C-306S	2	To couple push-pull plates (a) to push-pull grids	3.30

OUTPUT TRANSFORMERS (CLASS A)

C-400	1	Single 45 or 71A plate to 3 to 12 ohm voice coil	1.80
C-401	1	Push-pull 45 or 71A plates to 3 to 12 ohm voice coil	1.80
C-402	1	Single pentode plate (b) to 8 ohm voice coil	1.80
C-403	1	Push-pull pentode plates (b) to 8 ohm voice coil	2.00
C-404	1	Push-pull 48 plates to 8 ohm voice coil	1.80
C-405	3	Push-pull 2A3 plates to 4 and 8 ohm voice coil	3.00
C-406	1	Single plate (a) to 200 or 500 ohm line	2.00
C-407S	1	Push-pull plates (a) to 200 or 500 ohm line.....	2.60
C-408	1	Single plate (a) to magnetic speaker.....	1.80
C-409	1	Push-pull plates (a) to magnetic speaker	1.80
C-410	3	Push-pull parallel pentode plates (b) to 8 ohm voice coil	2.60
C-411	3	Push-pull parallel pentode plates (b) to 500 ohm line	2.60
C-412	1	Multi-purpose output for single triode or pentode plate; push-pull triode or pentode plates to low impedance secondary tapped from .1 to 29 ohms	2.00
C-413	1	Multi-purpose output for single triode or pentode plate; push-pull triode or pentode plate to high impedance line for connection to one or more magnetic speakers	2.00

CLASS B AND CLASS AB INPUT TRANSFORMERS

C-500	2	To couple 46 or 59 driver plate to Class B 46 or 59 grids	2.80
C-501	2	To couple 89, 30, or 49 plate to Class B 79, 19, 89 or 49 grids	2.80
C-502	2	To couple 53 or 6A6 plates (parallel) to Class B 53 or 6A6 grids	2.80
C-503S	1	To couple single 56 to Class AB 45 or Class AB 2A3 grids	2.80
C-504S	2	To couple push-pull 56 plates to Class AB 45 or 2A3 grids	3.00
C-505	2	To couple 42 or 2A5 triode plate to Class AB 42 or 2A5 grids	2.80
C-506	2	To couple push-pull 45's Class A to push-pull parallel 46 or 59 Class B grids.....	3.00

CLASS B AND CLASS AB OUTPUT TRANSFORMERS

C-600	3	Push-pull 46 or 59 Class B plates or push-pull 45 AB plates to 4 and 8 ohms	3.20
C-601	3	Push-pull 46 or 59 Class B plates or Push-pull 45 Class AB plates to 500 ohms	3.20
C-602	3	Push-Pull 53, 6A6, 6B5, 2B6, 49, 19, or 79 Class B plates to 4 and 8 ohms	3.20
C-603	3	Push-pull 89 plates to 4 and 8 ohms	3.20
C-604	3	Push-pull parallel 6A6 plates (2 tubes) to 4, 8 and 15 ohms	3.20
C-605	3	Push-pull parallel 6A6 plates (2 tubes) to 500 ohms	3.20
C-606	3	Push-pull 46 or 59 Class B plates, or 45 AB plates, to 4000 ohms. For best results use C-703 as modulation reactor for R.F. plate current up to 100 MA	3.20
C-607	3	Push-pull 53, 6A6, 6B5, 2B6, 49, 19 or 79 Class B plates to 4000 ohms. For best results use C-703 as modulation reactor for R.F. plate current up to 100 MA	3.20
C-608	3W	To couple push-pull parallel 2A3's, 45's Class AB, 46's or 59's Class B to 8 and 4 ohm voice coil	5.00
C-609	3W	To couple push-pull parallel 2A3's, 45's Class AB, 46's or 59's Class B to 500 ohm line	5.00
C-610	Spec.	To couple push-pull parallel 2A3's, 45's Class AB, 46's or 59's Class B to 4000 or 5000 ohms. Sec. DC 200 MA. Special Case	8.50
C-611	3	To couple push-pull 42's or 2A5's Class AB triode connected to 500 ohm line	3.20
C-612	3	To couple push-pull 42's or 2A5's Class AB triode connected to 4, 8, and 15 ohms.....	3.20

FILTER AND AUDIO REACTORS

C-700	3W	Filter choke, 8 henries, 165 MA, resistance 90 ohms D.C.	2.80
C-701	3W	Class B input choke, max. D.C. 165 MA, resistance 92 ohms D.C.	2.80
C-702	1	Filter choke, 20 henries, 65 MA, resistance 200 ohms D.C.	1.60
C-703	2W	Filter choke, 30 henries, 75 MA, resistance 350 ohms D.C.	2.30
C-704	1	Filter choke, 30 henries, 25 MA, resistance 800 ohms D.C.	1.60
C-705	3	Center tapped high impedance plate choke, resistance 10,000 ohms D.C.	3.30
C-706	1	Detector plate filter choke, Max. DC 2 MA, resistance 6,000 ohms D.C.	2.30



FILAMENT AND PLATE TRANSFORMERS

Type	Case		List Price
C-800		High Volt. and Rect. Secs. — 640 Volts C.T. 40 MA. — 5 Volts 2 Amps. Heater Sec. — 2.5 Volts C.T. 5.5 Amps.....	3.25
C-801		High Volt. and Rect. Secs. — 700 Volts C.T. 75 MA. — 5 Volts 2 Amps. Heater Secs. — 2.5 Volts C.T. 9 Amps. — 2.5 Volts C.T. 3 Amps.	4.50
C-802		High Volt. and Rect. Secs. — 650 Volts C.T. 100 MA. — 5 Volts 2 Amps. Heater Sec. — 2.5 Volts C.T. 12 Amps.....	5.00
C-803		High Volt. and Rect. Secs. — 800 Volts C.T. 115 MA. — 5 Volts 3 Amps. Heater Secs. — 2.5 Volts C.T. 5 Amps. — 2.5 Volts C.T. 12 Amps.	6.75
C-804		High Volt. and Rect. Secs. — 850 Volts C.T. 165 MA. — 5 Volts 3 Amps. Heater Secs. — 2.5 Volts C.T. 5 Amps. — 2.5 Volts C.T. 14 Amps.	9.00
C-805		High Volt. and Rect. Secs. — 1000 Volts C.T. 150 MA. — 5 Volts 3 Amps. Heater Secs. — 2.5 Volts C.T. 5 Amps. — 2.5 Volts C.T. 10 Amps.	10.50
C-806		High Volt. and Rect. Secs. — 670 Volts C.T. 50 MA. — 5 Volts 2 Amps. Heater Sec. — 6.3 Volts C. T. 3 Amps.....	3.75
C-807		High Volt. and Rect. Secs. — 700 Volts C.T. 75 MA. — 5 Volts 2 Amps. Heater Secs. — 2.5 Volts C.T. 3 Amps. — 6.3 Volts C.T. 3 Amps.	4.50
C-808		High Volt. and Rect. Secs. — 650 Volts C.T. 100 MA. — 5 Volts 3 Amps. Heater Secs. — 2.5 Volts C.T. 3 Amps. — 6.3 Volts C.T. 4 Amps.	5.25
C-809		High Volt. and Rect. Secs. — 750 Volts C. T. 100 MA. — 5 Volts 3 Amps. Heater Secs. — 2.5 Volts C.T. 3 Amps. — 6.3 Volts C.T. 4 Amps.....	5.50
C-817		High Volt. and Rect. Secs. — 1000 Volts or 750 Volts C.T. 200 MA. — 5 Volts 3 Amps. Heater Secs. — 2.5 Volts C.T. 8 Amps. — 2.5 Volts C.T. 10 Amps.	11.50
C-818		High Volt. and Rect. Secs. — 650 Volts C.T. 100 MA. — 5 Volts 2 Amps. Heater Secs. — 2.5 Volts C.T. 12 Amps. — 2.5 Volts C.T. 3 Amps.	5.25
C-819		High Volt. and Rect. Secs. — 750 Volts C.T. 100 MA. — 5 Volts 2 Amps. Heater Secs. — 2.5 Volts C.T. 4 Amps. — 2.5 Volts C.T. 12 Amps.	5.50
C-810	2	Filament transformer, Sec. 5 volts at 4 amp.	2.00
C-811	1	Filament transformer, Sec. 2.5 volts at 6 amp.	1.80
C-812	2	Filament transformer, Sec. 6.3 volts at 2.5 amp.	2.00
C-813	2	Filament transformer, Sec. 7.5 volts at 3 amp.	2.00
C-814	2	Filament transformer, Sec. 2.5 volts at 10 amp.	2.00
C-815	2	Bias transformer to supply 60-70 volts D.C. at approximately 30 MA when used in half-wave rectifier circuit	2.80
C-816	3	Power transformer for use in pre-amplifier plate and filament supply—440 V C.T. 15 MA—6.3 V. 4 amp.—6.3 V. C.T. .6 amp.	3.20

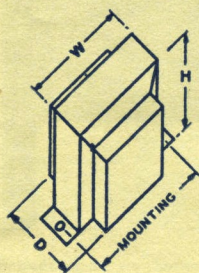


TABLE OF DIMENSIONS

CASE	H	W	D	MOUNTING
1	2"	2 $\frac{3}{8}$ "	1 $\frac{7}{8}$ "	2 $\frac{3}{4}$ "
2	2 $\frac{1}{4}$ "	2 $\frac{3}{4}$ "	2"	3 $\frac{1}{4}$ "
2W	2 $\frac{1}{4}$ "	2 $\frac{3}{4}$ "	2 $\frac{1}{2}$ "	3 $\frac{1}{4}$ "
3	2 $\frac{1}{2}$ "	3"	2 $\frac{1}{8}$ "	3 $\frac{7}{16}$ "
3W	2 $\frac{1}{2}$ "	3"	2 $\frac{5}{8}$ "	3 $\frac{7}{16}$ "

NOTES

1. All primaries of power transformers are designed for operation on 115 volts—50/60 cycle line.
2. (a) indicates plates of such tubes as 55, 56, 76, 27, 37, 864, 30, 26, 77 (triode connected), 57 (triode connected), 6C6 (triode connected) or any similar tube having plate resistance of approximately 10,000 ohms.
3. (b) indicates pentode plate of such tubes as 2A5, 42, 47, 59, 89, 33 or similar tube requiring plate load of approximately 7,000 ohms (per tube).
4. (c) indicates turns ratio total primary to total secondary in the case of coupling transformers working from single plate to single grid or from push-pull plates to push-pull grids. In the case of a single plate working to push-pull grids the turn ratio is given as total primary to one-half the secondary.
5. The letter "S" at the end of any type number indicates an audio unit of distinctly superior quality having either an unusual number of circuit applications or possessing improved low frequency response.



SILVER GROUP AMPLIFIER KITS

The Engineering Department of the Kenyon Transformer Co., Inc., has developed a number of amplifier units using Silver Group components. These amplifiers are offered in a kit form which includes all transformer and reactor units and two drilled chassis. The same careful design used in the construction of the transformers and reactors of the Silver Group has been carried to these complete kits.

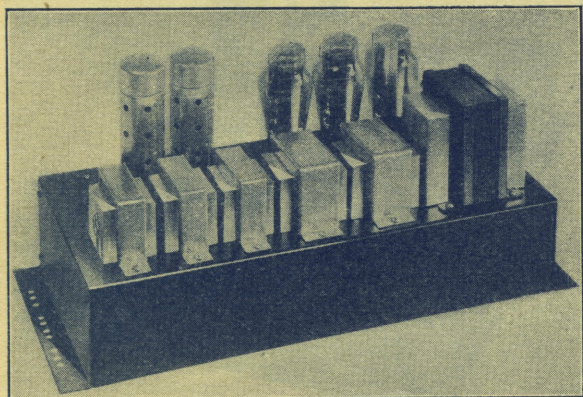
Separate chassis are provided for audio and power units in all of the high gain amplifiers to keep the hum level to a minimum. All audio units, including the input transformer, can be mounted on the audio channel chassis. All power units can be mounted on the power channel chassis. This makes it possible to keep these units well separated and thus prevent any electromagnetic coupling between the power channel and the audio channel. Each audio and power channel chassis has been designed for either rack and panel mounting or for upright or table mounting. All chassis are composed of five separate pieces securely screwed together. Thus, it is possible, with this type of construction, to perform all necessary drilling or machine operations on any one of the sides or top of the chassis while the chassis are unassembled and convenient to handle. Still another feature of the construction lies in the fact that the audio unit can conveniently be powered by a motor generator unit in a sound truck installation. This is done by simply disconnecting the cable from the A.C. power unit and connecting it to the motor generator for the plate power and to the car battery for the filament power. The dual chassis construction also makes it convenient to mount these units in standard carrying cases for portable installations.

Both power and audio chassis have the following overall dimensions:

Length—19" Width—7-8" Height—3½"

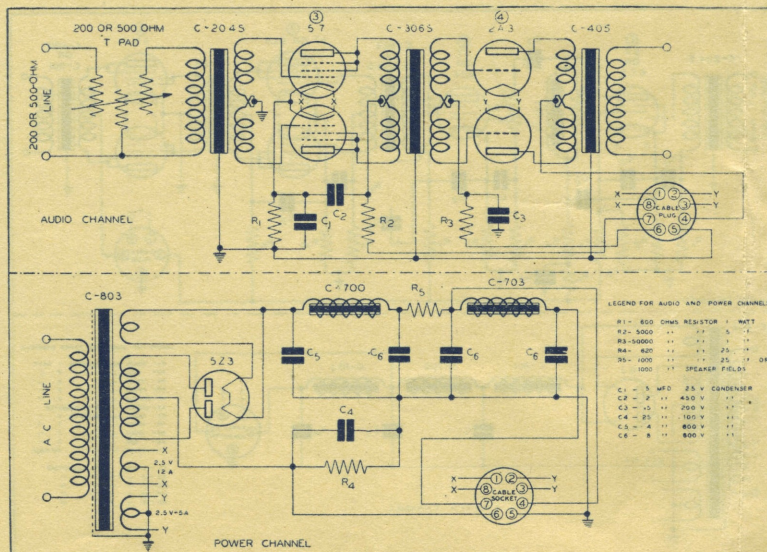
The chassis are both provided with all transformer, reactor, and tube holes punched in the respective units. The list price given for each kit includes two chassis (unless otherwise specified) and all transformer and reactor units necessary for the construction of the completed units. Where alternative transformers are shown, kits are supplied with lowest priced transformer indicated unless otherwise specified. Output transformer supplied will be for voice coil line unless otherwise specified.

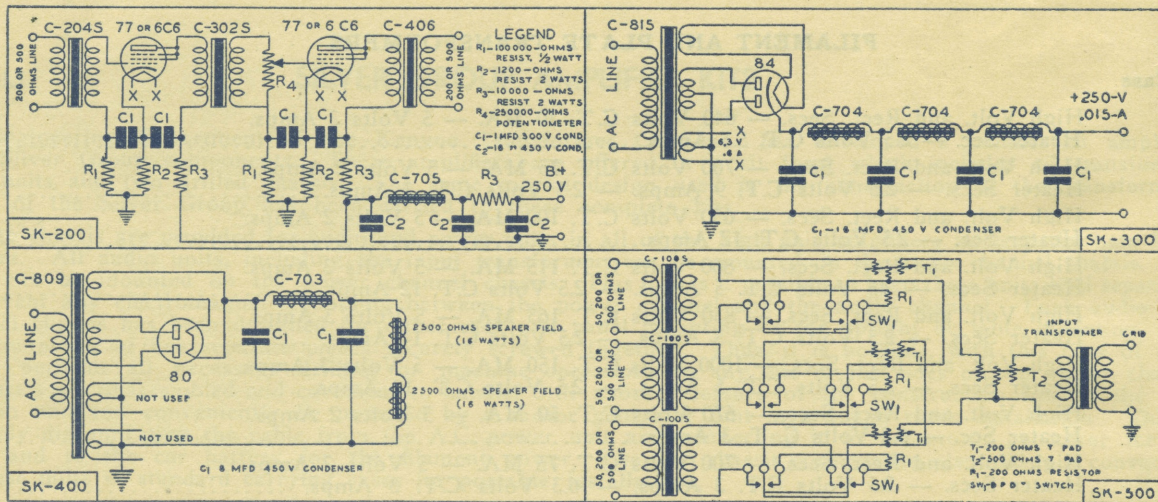
- SK 100:** Designed as a low gain, high output unit for home reproduction of phonograph or radio. This amplifier has a power output of 12-14 watts. Because of the low gain involved the entire unit (power and audio channels) has been constructed on a single chassis. To convert this unit to a high gain amplifier, use preamplifier SK200.
- SK 101:** This unit is a high gain amplifier for public address. It can be used with any of the popular low level microphones, such as crystal, velocity, dynamic or inductor. The power output is 12 watts. When the amplifier is put into operation, the audio channel should be mounted approximately three to four feet from the power channel for lowest hum level. Ground one side of the input line. For sound truck installation use 6C6 tubes in place of the 57's and 42's in place of the 2A5's. All filaments should then be powered from the storage battery of the truck.
- SK 102:** This amplifier has a power output of 36 watts and sufficient gain to work with any crystal, velocity, dynamic or inductor microphone. When putting the amplifier in operation, follow same precautions given under SK 101. This system has numerous public address applications and can also be used to modulate a low power transmitter.
- SK 103:** This unit is a popular amplifier combination for amateur radio and public address applications. The power output is 20 watts with sufficient gain for any type of microphone. When putting the unit into operation, the same precautions given under SK 101 should be followed. The unit can be converted for sound truck installation by replacing the 57's with 6C6's and the 59's with push-pull parallel 6A6's. If it is desired, push-pull parallel 53's can be used in the output stage by merely replacing power transformer C-805 with power transformer C-804. All other circuit constants remain unchanged.



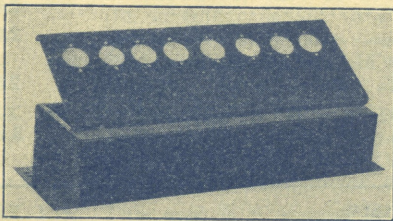
Kit No. SK-100

List Price—\$24.15 (Transformer Kit and Chassis)





- SK 200:** SK 200 is designed to be used with any low level microphone to bring this unit up to the level of a double-button carbon microphone. The voltage gain is approximately 60 db. The unit should be installed in a shielded box which is securely grounded. One side of the input line and one side of the output line should be grounded.
- SK 300:** SK 300 is the power supply unit designed to work with SK 200 or any similar amplifier requiring 250 volts at 15 MA and 6.3 volts at .6 amp.
- SK 400:** Represents a field supply unit designed to energize two 2,500 ohm speaker fields.
- SK 500:** This is a three position mixer circuit which can be used with any of the amplifier units previously described.

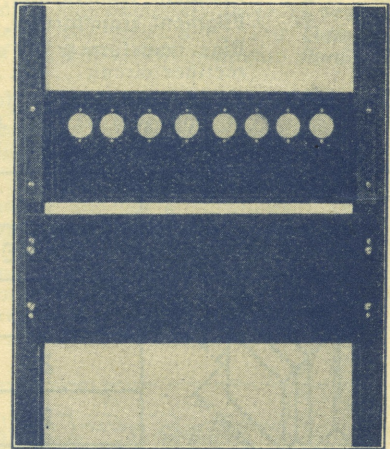


Unit Chassis with top deck removed

KENYON UNIT CHASSIS

The Kenyon Unit Chassis has been designed by Kenyon engineers as an aid in the construction of amplifier and power units. Every effort has been made to make them mechanically versatile and therefore applicable to any type of installation. They are of the same type provided with the SK series of kits listed on the preceding pages. The features offered by these chassis units are:

- Any unit can be used for rack mounting or table mounting.
- All units are excellent electromagnetic and electrostatic shields.
- Ample space is provided under chassis for wiring and accessories.
- Components and wiring under chassis are accessible even when chassis are mounted on a rack. This is accomplished by fastening the chassis assembly to the rack with a set of four screws which are not connected to the set of four screws which hold the front panel to the rack. Thus the front panel may be removed without removing the chassis.
- Each chassis is constructed of five separate pieces securely screwed together. They can be completely disassembled thus making it convenient to perform all drilling or other machine operations.
- All chassis are finished in a durable black egg-shell lacquer.



Two Unit Chassis mounted on rack showing method of mounting and accessibility of all parts

TYPE	To Fit Panel	W	L	H	No. of Socket Holes	List Price
U-102	7x19	6½	16¾	3½	8	2.90
U-103	8¾x19	8	16¾	3½	8	3.00
U-104	10½x19	9¾	16¾	3½	8	3.50
U-105	12¼x19	11½	16¾	3½	8	3.75
U-100	3½x19	3¼	16¾	3½	none	2.90
U-101	5¼x19	4¾	16¾	3½	none	2.90
UB-102	7x19	6½	16¾	3½	none	2.90
UB-103	8¾x19	8	16¾	3½	none	2.90
UB-104	10½x19	9¾	16¾	3½	none	3.20
UB-105	12¼x19	11½	16¾	3½	none	3.40

GUARANTY

All Kenyon Transformers are guaranteed against defects in materials and workmanship for a period of 90 days from the time of sale. Inoperative transformers should be returned prepaid to our factory, where they will be inspected, and, if found defective from the above mentioned causes, will be replaced without charge.

KENYON TRANSFORMER CO., Inc.
 New York, N. Y.