

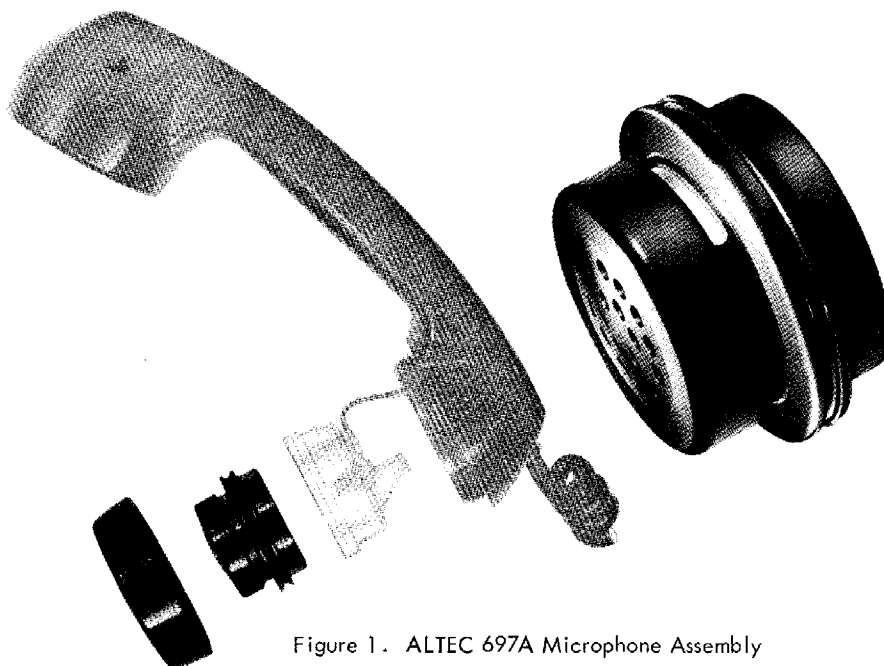


Figure 1. ALTEC 697A Microphone Assembly

SPECIFICATIONS

Type:	Noise-canceling dynamic microphone with built-in transistor amplifier
Frequency Response:	100 to 5000 Hz (mounted in G1-type handset)
Discrimination:	12 dB average
Sensitivity:	-37 dB Re: 1 volt. Re: 1 dyne/cm ² (high gain, 100 Ω load, 24 mA) -44 dB Re: 1 volt. Re: 1 dyne/cm ² (low gain, 100 Ω load, 24 mA)
Maximum Output:	1.3 volts rms with 100 Ω load at 24 mA
Maximum SPL for Linear Output:	108 dB, high gain setting 117 dB, low gain setting
Load Impedance:	100 Ω to ∞
Current Drain:	40 mA maximum (typical current of 100 Ω resistive load in series with 16 volt supply)
Polarity:	Either (not polarity sensitive)
Maximum Operating Temperature:	55° C at 30 mA 40° C at 40 mA
Connections:	Contact discs on rear. Fits contact cup of G1-type handset.
Dimensions:	1-13/16" dia. x 1" H
Weight:	1.5 oz.
Special Feature:	Sensitivity adjustment

DESCRIPTION

The ALTEC 697A Microphone Assembly, consisting of a noise-canceling dynamic microphone and a transistor amplifier, is designed as a replacement for the carbon transmitter in G1-type handsets or their equivalent. It will provide improved frequency response and articulation index over that of conventional carbon units and is ideal for use in telephone-type handsets where a uniform frequency response, low noise, low distortion, and

noise canceling features are required. Typical applications include vocoder use and high quality sound systems where telephone transmitters are dialed into the sound system for paging. The unit is particularly beneficial in areas where high ambient noise levels exist.

The transistor amplifier of the 697A Microphone Assembly operates from the current normally supplied to the carbon transmitter and serves to raise the dynamic microphone output to that of the carbon element. Since the 697A uses less current than the standard carbon unit, an increase in loop length between the unit and the supply voltage source is possible. The assembly also may be used on short telephone loops if necessary. A varistor within the teletest automatically compensates for a supply voltage higher than the maximum (16 volts), therefore no additional current resistance is required.

In compliance with standard telephone practices, the circuitry of the 697A Microphone Assembly operates free of earth grounds and is encased in non-conductive material. The lack of shielding afforded by this construction, combined with the gain of the transistor amplifier, makes the unit susceptible to induction from high-energy RF fields. If use of the 697A in the vicinity of high powered transmitting antennas is contemplated, RF susceptibility should be checked in the intended location and steps taken to control any interfering field intensity within the area where the microphone will operate.

INSTALLATION

To install the ALTEC 697A Microphone Assembly in a G1-type handset:

1. Unscrew and discard the perforated transmitter retainer cap, then remove the carbon unit from the handset.
2. Insert the 697A into the contact cup. Use the transmitter retainer ring supplied with the 697A to secure the unit in place.

Specifications and components subject to change without notice. Overall performance will be maintained or improved.



A Division of BSY Ling Altec, Inc.

1515 S. Manchester Ave., Anaheim, Calif. 92803

New York

Litho in USA

AL-1920

CP-28-2.5K

SENSITIVITY ADJUSTMENT

As shipped, the 697A is strapped for high sensitivity which is recommended for use in the standard telephone system. For vocoder, paging or other applications where maximum bandwidth and minimum distortion are required, the low sensitivity setting is recommended. To perform this adjustment, withdraw the 'U'-shaped link visible on the contact side of the assembly (see Figure 2). Frequency response for high and low sensitivity settings is shown in Figures 3 and 4.

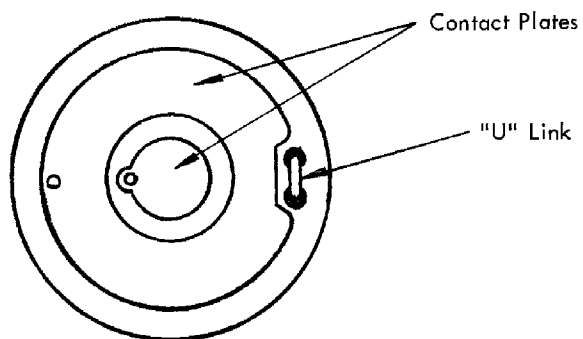


Figure 2. Sensitivity Adjustment

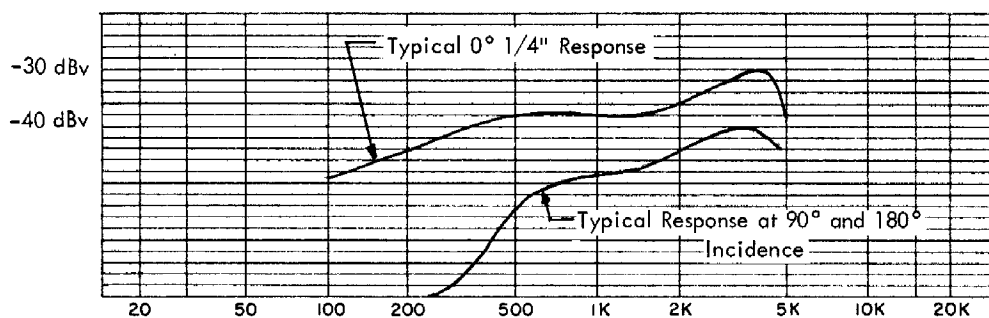


Figure 3. Response Curve, High Gain Setting (12 volts, 24 mA)

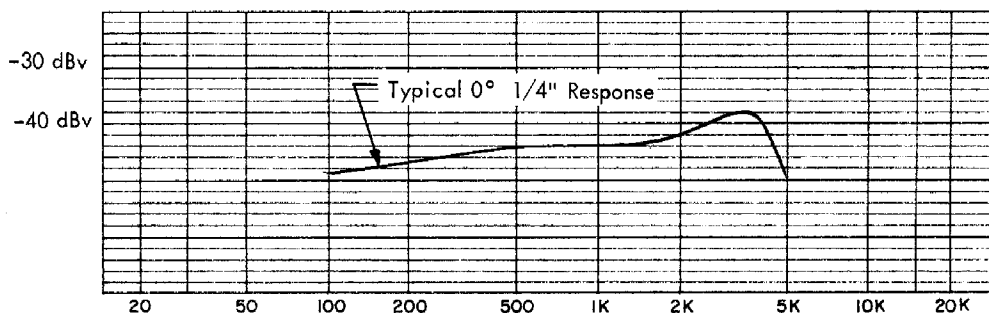


Figure 4. Response Curve, Low Gain Setting (12 volts, 24 mA)

ALTEC LANSING

A DIVISION OF LTV LING ALTEC, INC.

1815 SOUTH MANCHESTER AVENUE, ANAHEIM, CALIFORNIA • 92803
774-2800 AREA CODE 714

REISSUED JUNE 1, 1968

TELEPHONE AND COMMUNICATION PRODUCTS PRICE LIST--JANUARY 15, 1968

S-17T	Ampl. System	**			
S-19	Portable Loudspeaking		7612	Panel, Mtg., Trans.	6.00
	Telephone System	\$ 625.00	9704	Gain Set	855.00
A-44	Artificial Mouth	1500.00	12299	Cabinet	165.00
A-45	Artificial Mouth	1500.00	12910	Panel, Mtg. Repeater	9.00
A-46	Artificial Mouth	3000.00	12912	Equalizer	50.00
91A	Kit for mtg. 5½" H		12962	Mtg. Assy., Repeater	7.50
	rack mtg. type pwr.		13151	Distribution Board	\$19.50
	ampl. to 23" rack	4.50	13227	Mtg. Assy., Repeater	7.75
92A	Kit for mtg. 7" H		13530A	Net., Compromise	17.00
	rack mtg. type pwr.		13531	Net., H88	36.00
	ampl. to 23" rack	4.75	13532	Net., Non-Loaded	23.00
93A	Kit for mtg. 10½" H		13533A	Network	24.00
	rack mtg. type pwr.		13534A	Network	33.00
	ampl. to 23" rack	5.25	13738	Attenuator	26.00
129A	Ampl., Distribution	115.00	13777A	Pad Adapter	7.20
447B	Ampl., Repeater	37.00	13778A	Pad Cont. Relay	28.80
449B	Ampl., Repeater	40.50	13802A	Attenuator	13.00
453B	Ampl., Repeater	29.50	13804A	Attenuator	13.00
453B-600/900	Ampl., Repeater	42.00	13806A	Attenuator	13.00
453BX	Ampl., Repeater	34.00	13817A	Relay	20.00
455B	Ampl., Repeater	31.00	13826A	Idle Circuit Disabler	21.00
455B-600/900	Ampl., Repeater	43.00	13950A	Filter, 3 kc LP	27.50
455BX	Ampl., Repeater	34.00	14115A	Panel, Mtg., Repeater	35.00
456B	Ampl., Repeater	26.50	14194A	Balance Network	21.00
460A	Ampl., Compressor	51.00	14252A	Loop Back Relay	28.00
460B	Ampl., Compressor	71.00	14313A	Network	9.00
461A	Ampl., 2 watt	28.50	14477A	Attenuator	25.00
468A	Ampl., Program/Data	257.00	14480A	Combination Plug	9.90
469A	Ampl., Repeater	36.00	14580A	Net., H88	38.00
479A	Ampl., Repeater	39.50	14581A	Net., Non-Loaded	24.50
480A	Ampl., Repeater	36.00	14583A	Net., Compromise	15.00
481A	Ampl., Repeater	42.00	14584A	Net., Fixed Resistance	6.75
529A	Pwr. Sup., 20 V 3 A	162.00	14585A	Net., Compromise & Disabler	37.50
533A	Pwr. Sup., 20 V 30 ma	35.00	14586A	Dial Long Lines Unit	103.00
536A	Pwr. Sup., 20 V 0.5 A	43.00	14700A	Rack Mounting Assy.	27.00
538A	Pwr. Sup.	32.00	14727A	Resistance Bridge	51.00
541A	Pwr. Sup.	26.00	14773A	Test Assembly	22.00
697A	Noise Cancelling		14832A	Adapter	7.80
	Dynamic Microphone	39.80	14997A	Transmission Switch	35.00
2227A	Ampl., Repeater	60.50	15036	Repeat Coil	33.00
7300A	Panel, Term. Mtg.	90.00	15189	Transformer, Hybrid	19.50
7301A	Term Set	99.50	15192	Transformer, Line	17.00
7302	Panel	65.00	15257	Transformer, Line	19.00
7303A	Wall Box, Term. Mtg.	95.00	15337	Transformer, Hybrid	21.00
7304A	Term. Mtg.	88.00	15338	Transformer, Line	19.00
7306A	Repeater	99.00	15339	Transformer, Line	24.50
7307A	Repeater	113.00	17224	Equalizer, 8 kc	21.00
7313A	Conference Bridge	425.00	17249	Equalizer, 15 kc	42.00
7314A	Conference Bridge	280.00	40431A	Resistance Bridge	33.00
7317A	Panel, Mtg.	69.50	40488A	Attenuator	27.90

Repair Repeater Amplifiers (no quantity discount) 12.00

Quantity Prices - 200 or more of the same item 10% discount.

**S-17T Amplifier System is made up of the following (see Op. Instructions)

- | | | | |
|---|---|---|----------------------------|
| 1 | 12299 Cabinet | 2 | 17224 Equalizers (8 kc) or |
| 2 | 468A Amplifiers | 2 | 17249 Equalizers (15 kc) |
| 2 | 541A Power Supplies (for operation from
120 volts AC, 60 cycles when office
supplies of either 24V or 48V are not
available. | | |

All prices f.o.b. Anaheim, California, subject to change without notice.

LEGEND: † -- preceding part number indicates upward price adjustment.
‡ -- preceding part number indicates downward price adjustment.
* -- preceding part number indicates new item added to price list.
α -- preceding part number indicates variation; i.e., change in part number or description, or deletion of item from current list.