



## **GENERAL**

The Shure Model M267 is a microphone mixer-remote amplifier specifically designed for professional applications. The excellent performance, versatility and features of this complete, compact console make it an ideal choice for studio, remote, or sound reinforcement use, and as an add-on mixer for expanding existing facilities. It is also ideally suited for use with audio and video tape recorders to provide multiple microphone inputs.

#### Features:

- Wide, flat frequency response and extremely low distortion up to +18 dBm output
- Extremely low noise and RF susceptibility
- Four switchable microphone- or line-level balanced-line inputs with individual gain controls and low-frequency rolloff switches. MUMETAL shielding on input transformers
- Feedback-type input gain controls for maximum clipping levels and dynamic range
- Output switchable for line or microphone level
- Built-in switchable peak limiter cuts output overload distortion, adapts to power supply voltage
- LED indicator shows limiter operation or overload with limiter defeated
- Externally adjustable limiter threshold (–4 to +18 dBm)
- VU meter calibrated for +4 and +8 dBm with range switch. Illuminated with ac operation
- Ac or built-in battery operation. Noiseless automatic switchover to battery in case of ac line failure. Battery test without program interruption
- Front-panel headphone level control and monitor jack drives almost any stereo or mono headphones; output can be additional unbalanced line feed to drive a tape recorder or power amplifier

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## Model M267 User Guide

- · Direct mix bus for stacking units
- Automatic muting prevents speaker damage during turn-on and -off
- Low distortion, high-stability tone oscillator for line test and level checks
- All connections phased. Line output terminals phaseindicated
- Compact and lightweight, with rugged, abrasion-resistant case
- Internally selectable 120 or 240 Vac, 50/60 Hz operation
- Underwriters' Laboratories Listed and Canadian Standards Association listed as Certified

## **SPECIFICATIONS**

## **Frequency Response**

30 Hz to 20,000 Hz, ±2 dB

## Voltage Gain (at 1,000 Hz)

(Outputs terminated: line 600  $\Omega,$  microphone 150  $\Omega,$  mix bus 3.3 k $\Omega,$  headphone 200  $\Omega,$  tip-sleeve and ring-sleeve )

la a cont	OUTPUT		
Input	Line	Microphone	Mix Bus
Low-Impedance Microphone (150 $\Omega$ )	91 dB	41 dB	24 dB
Line	40 dB	−9 dB	–27 dB
Mix Bus	55 dB	5 dB	

## Inputs

	IMPEDANCE		
Input	Designed for Use With	Actual (Internal)	Input Clipping Level
Microphone	19 to 600 Ω	1 kΩ	-32 dBV to -5 dBV* (25 mV to 0.56 V)
Line	Less than10 kΩ	66 kΩ	+20 dBV
Mix Bus	$3.5~\mathrm{k}\Omega$	$3.5~\mathrm{k}\Omega$	+7 dBV (2.2 V)

<sup>\*</sup>Depending on input control setting

#### **Outputs**

	IMPEDANCE		
Output	Designed for Use With	Actual (Internal)	Output Clipping Level
Microphone	Any low imped- ance microphone input	0.5	-34 dB (20 mV)
Mix Bus	3.5 kΩ	3.5 kΩ	-8 dBV (400 mV)
Head- phones	$8$ - 2000 $\Omega$ $200~\Omega$ recommended	400 Ω to 3 kΩ**	+10 dBV (3.3 V)
Line	600Ω	150Ω	+18 dBm (6.2 V)

<sup>\*\*</sup>Depending on level control setting

#### **Noise**

Equivalent Input Hum and Noise: –126 dBV (low impedance microphone, 150  $\Omega$  - 20-20,000 Hz) into a 600  $\Omega$  load at full gain

**Output Noise:** -75 dBV (master control fully counter-clockwise), -53 dBV (master fully clockwise), (input controls down, 300-20,000 Hz)

Output Hum and Noise: -70 dBV (master control down), -51 dBV (master control up) (input controls down, 20-20,000 Hz)

#### Distortion

0.35% or less THD from 30 to 20,000 Hz at +15 dBm output; 0.5% or less IM distortion up to +15 dBm output level

#### **Common Mode Rejection**

65 dB minimum with input of -20 dBV at 100 Hz

## **Control Interaction**

Less than 1 dB with any control combination

## **Overload and Shorting Protection**

Shorting the outputs, even for prolonged periods, will cause no damage; microphone inputs will not be damaged by signals up to 3 volts

## **Lo-Cut Filters**

6 dB/octave rolloff at 150 Hz

#### Limiter

Threshold: +15 dBm (line output level; adjustable

from -4 to +18 dBm)

Attack Time: 3 msec typical Recovery Time: 500 msec typical

## **Peak Indicator**

Lights 6 dB below clipping or at onset of limiter action

## **Headphone Output Clipping Level**

3.16V (+10 dBV) into 200  $\Omega$ 

#### **Tone Oscillator**

1,000 Hz, 1.5% or less THD

#### **Phantom Power**

30 Vdc open-circuit, 3.3  $k\Omega$  series resistance, input switches in MIC position only

## **Operating Voltage**

**Ac Operation:** 120 or 240 volts ±10%, 50/60 Hz, 9.5W, internally switchable†

**Dc Operation:** 27 volts nominal at 15 mA typical nosignal, 18 mA typical at 0 VU (+4 dBm) output with headphone load; 21.5 volts minimum

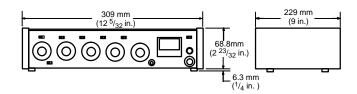
**Battery life:** approximately 20 hours with alkaline batteries at +4 dBm output in continuous use; three 9-volt batteries, type NEDA 1604A (Duracell MN1604 recommended)

## **Temperature Range**

Operating: -18° to 57° C (0° to 135° F) Storage: -29° to 71°C (-20° to 160° F)

## **Dimensions**

See Figure 1



## FIGURE 1

## Weight

Net: 2.3 kg (5 lb 2 oz)

Packaged: 3.2 kg (7 lb 2 oz)

#### Certifications

Listed by Underwriters' Laboratories, Inc., and listed by Canadian Standards Association as Certified

<sup>†</sup> Supplied wired for 120 Vac operation (See Service section for 240 Vac operation)

#### CONTROLS AND CONNECTORS

#### **WARNING**

This apparatus must be earthed (grounded)! The M267 power supply is energized when the unit is connected to an ac source; disconnect mains (power) plug from supply when not in use.

## Inputs

The four inputs are professional three-pin female XLR audio connectors located on the rear panel and designated INPUT 1 through INPUT 4. The inputs are balanced (internal transformer, MUMETAL shielded); pins 2 and 3 are "hot", and pin 1 is "ground". For microphone operation, the switches labeled LINE/MIC (directly above the input connectors) must be in the MIC position; for line level inputs, the switches must be in the LINE position. For impedance, clipping and operating signal levels, refer to the SPECIFICATIONS section.

## **Outputs**

The rear-panel connector labeled OUTPUT is a professional three-pin male XLR audio connector. With the adjacent LINE/MIC switch in the MIC position, the OUTPUT connector is used to feed a low-impedance microphone line or a low-impedance microphone input. With the LINE/MIC switch in the LINE position, the OUTPUT connector feeds the line-level input of an amplifier, tape recorder, or another mixer. The OUTPUT connector is a balanced output with the LINE/MIC switch in either position; pin 1 is ground, pins 2 and 3 are "hot", and the connector is in phase with the corresponding pins of the input connectors.

The rear-panel binding-post connector designated LINE OUTPUT is in parallel with the OUTPUT connector and can be used as a line-level output feed simultaneously with the OUTPUT connector. The terminals are numbered 2 and 3 and are in phase with the corresponding pins of the input connectors. While the line outputs can be used to drive various impedance lines, the VU meter is calibrated for use with a 600  $\Omega$  line.

The line output transformer will operate properly with up to 100 mA dc in the line. This feature permits the use of standard "dialed-up" telephone lines with dc across them. (Since a slight distortion increase may occur at high output levels with maximum dc current, operation with the VU RANGE switch at +4 dBm is recommended.)

## **Input Gain Controls**

The front-panel controls designated 1 through 4 are the individual active gain controls for correspondingly numbered inputs. Note that the input connectors are located on the rear panel directly behind their corresponding gain control. The controls set the preamplifier gain and provide preamplifier output attenuation. As the gain is reduced, the preamplifier input clipping level is increased for that channel.

Input control 1 serves an additional function as the level control for the tone oscillator when the INPUT 1/OCS 1 switch is in the OSC 1 position.

**IMPORTANT:** For optimum signal-to-noise ratio, the individual input controls should be operated at as high a setting as possible, consistent with maintaining adequate control range and input clipping level.

#### **Master Gain Control**

The front-panel control designated MASTER is the master gain control which sets the overall output level of the mixed sources (including signals applied to the MIX BUS input).

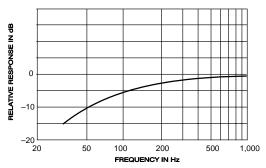
## Limiter

The front-panel LIMITER IN/OUT switch turns on a fast-acting, peak-responding limiter circuit that cuts overload distortion during loud program intervals without affecting normal program levels. When the LIMITER switch is IN (operating), the mixer output is limited to approximately +15dBm. Increasing the individual or MASTER gain controls will increase the average output and the amount of limiting. The limiter threshold can be reset to any other output between –4 and +18 dBm if desired. With the limiter switched OUT and tone oscillator activated, adjust INPUT 1 and MASTER level controls to produce an output 0.5 dB higher than desired. Switch the limiter IN and set the LIMITER THRESHOLD ADJUST control (accessible though the bottom of the chassis) for the desired level.

The front-panel PEAK LED indicator shows limiter operation with the limiter in, and operates when program levels approach overload with the limiter out. The indicator is much faster than a meter and will be activated by the shortest transient peak, but it remains on long enough to provide easy recognition.

#### **Low-Cut Filters**

The low-cut filters provide a low-frequency rolloff to the response curve as shown in Figure 2. The filters are activated by the LO-CUT IN/OUT switch above each individual input gain control and can be used individually with each control to reduce wind noise or undesirable low-frequency signals such as from condenser microphones or turntable rumble.



LOW-CUT FILTER ACTION FIGURE 2

#### Mix Bus

Direct access to the mixing bus is provided through the rear-panel MIX BUS phono pin jack. This provision is made primarily to facilitate stacking or "multing" M267s to achieve additional input capacity without losing any inputs. With two M267s, for example, the two mixing buses are directly connected, providing two independent master gain controls and two isolated line amplifiers with eight individually controlled inputs. Since the buses are directly paralleled, a 6 dB drop in gain will occur; and the master or input controls must be increased to compensate. Noise specifications are not adversely affected by this interconnection. Mix bus interconnection can also be made with other Shure mixers, such as the M268, FP42. etc.

#### **VU Meter**

The VU meter is factory-calibrated for use with a 600  $\Omega$  terminated line. The VU RANGE switch on the rear panel selects either a +4 or +8 dBm output at 0 VU meter indication. (This switch changes the meter indication but does not change the actual output level.) Microphone output levels are 50 dB below line output. The +4 range is recommended for normal use to provide approximately 14 dB of headroom from operating level to clipping level.

The VU meter is illuminated by two No. 86 lamps operating well under their normal ratings for a life expectancy of greater than 10,000 hours. The lamps are only lit during ac operation. Consequently, the illumination serves as a visual alarm if the ac is interrupted and the unit has switched to battery.

The VU meter is connected on the primary side of the output transformer to assure protection from any dc level on a telephone line.

## Headphones

The headphone outlet appears at the front-panel jack panel designated PHONES. The two-circuit phone jack will accommodate most stereo or mono headphones. The output level is sufficient to provide high volume for use in noisy environments.

Note that the headphone output level is also high enough to use as an auxiliary unbalanced line feed to drive a tape deck or a power amplifier.

The tip and ring connections of the headphone plugs are in phase with pin 3 of all input and output connectors, and with the tip of the MIX BUS jack.

## **Tone Oscillator**

The highly stable, low-distortion tone oscillator provides for line test and level checks. The oscillator is instantly activated by the front-panel INPUT 1/OSC 1 switch; its level can then be controlled by the INPUT 1 gain control on the front panel. The tone oscillator frequency is 1,000 Hz, and the signal appears on both the line and microphone outputs, as well as the headphone and mix bus connectors. The oscillator should be switched off (INPUT 1 position) when not in use.

#### **Phantom Power**

The rear-panel PHANTOM OFF/ON switch controls the application of phantom power for condenser microphones, such as the Shure SM81 and SM87A, to all inputs. With the switch on and the rear-panel MIC/LINE switches in the MIC positions, +30 Vdc is applied to pins 2 and 3 of each input connection. Series current-limiting resistance is 3.3  $k\Omega$  for each input. When using other condenser microphones with the M267, verify that the voltage and resistance requirements are compatible.

Note that the phantom power cannot normally be applied to the inputs with the MIC/LINE switches in the LINE position.

**IMPORTANT:** Do *not* turn the PHANTOM switch on when using *unbalanced* low-impedance microphones; objectionable hum will result. Turn off the PHANTOM switch when condenser microphones are not being used.

Use only high-quality cable. Intermittent shorts between broken shield wires and balanced conductors will cause offensive noise transients in the system.

## **BATTERY OPERATION AND EXTERNAL POWERING**

In addition to ac operation, the M267 can be operated from an internal battery pack. Current drain is typically 17 mA at +8 dBm output level and typically 15 mA at +4 dBm. Battery power is recommended both for remote, on-location operation, and as an emergency backup source in case of failure of the ac power.

Access to the battery compartment is provided at the bottom of the chassis. Three 9-volt alkaline batteries power the M267 at full rated output. Use alkaline batteries for maximum life. Duracell MN1604A or Eveready 522 are recommended. Battery life is approximately 20 hours at +4 dBm continuos use. Note that battery operation with phantom power loads and high level headphone monitoring will increase battery drain.

With batteries in the battery compartment, the M267 will automatically and silently switch to battery operation should the ac voltage fall below a suitable level. If the ac power fails completely, the VU meter lamps will go out, providing a visual indication of line failure.

Battery condition can be determined by using the BATT CHECK switch on the front panel. Activate the BATT CHECK switch and observe the VU meter. A new set of batteries will give about a +2 VU indication. Battery condition is good if the reading is above 0 VU; a lower reading means that new batteries are required for proper operation. Note that the M267 power switch must be turned on to check battery condition.

#### **Telephone Interconnection**

When using the M267 connected directly to a telephone line, check to see whether the local telephone company requires an interface coupler between the M267 and the telephone line. If a coupler is required, make certain the coupler selected and the wiring arrangement are in compliance with the telephone company regulations.

## **Telephone Line Surge Protection**

When using the M267 connected directly to a telephone line subject to lightning-induced voltage surges, the following commercially available part can be installed across the LINE OUT terminals to provide additional protection for output circuit components:

**Metal Oxide Varistor,** General Electric Co., Type No. V22ZA1

## **ACCESSORIES**

**A268R Rack Panel Kit.** The Model A268R Rack Panel Kit includes a 19 in.  $\times$  3- $^{1}$ /<sub>2</sub> in. (483 mm  $\times$  89 mm) precut rack panel and necessary hardware for rack-mounting the M267 (with its cover in place and end caps removed) in a standard 19 in. (483 mm) rack panel.

**RKC169** Rack Panel Bracket Kit. The Model RKC169 Rack Panel Bracket Kit enables owners of the Shure A68R Rack Panel Kit (originally designed for the M67 and M68 Mixers) to rack-mount the M267 with the A68R.

## **SERVICE**

#### **WARNING**

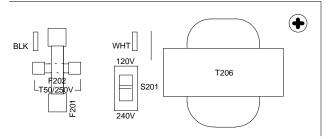
Voltages in this equpment are harzardous! Refer servicing to qualified service personnel.

## 240 Vac Operation

To change the M267 operating voltage from 120 Vac to 240 Vac, follow these steps:

- 1. Disconnect the M267 from the ac line.
- 2. Remove the end caps and cover.

3. Locate the voltage selector switch (S201) at the right rear of the main printed circuit board (Figure 3). Move SD201 to the 240V position (toward the front panel).



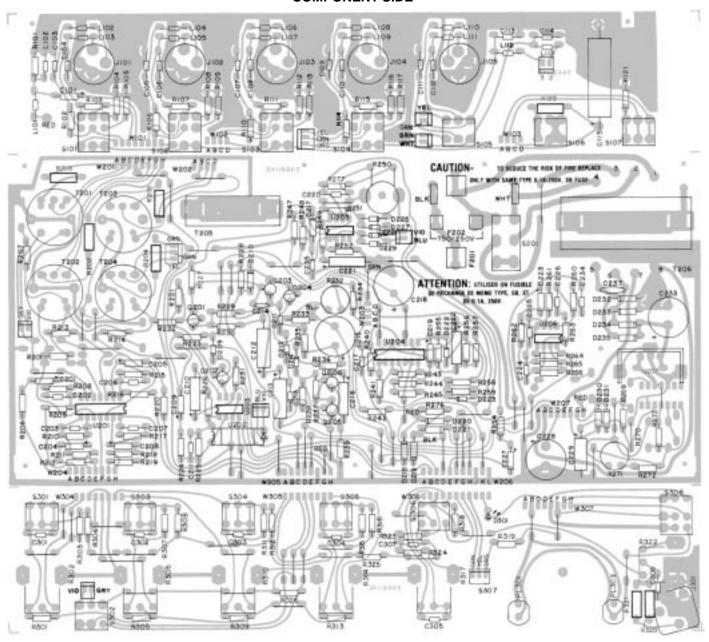
# 240 V WIRING FIGURE 3

- 4. Remove fuse F201 (0.1A, 250V, time lag) and replace it with the supplied fuse F202 (0.05A, 250V, time lag). Note that the F202 fuse holder is at right angles to the F201 fuse holder.
- 5. Replace the ac line cord (if necessary) with one designed for the 240 Vac source. If the M267 is to be used outside the U.S. and Canada, local regulations may require replacing the line cord with one having wire insulation colors as follows:

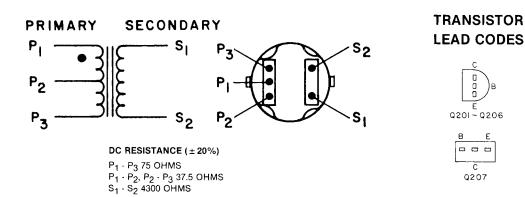
	"Live" or "Hot"	Neutral	Earth or Ground
U.S., Canada	Black	White	Green
Europe	Brown	Blue	Green/ Yellow

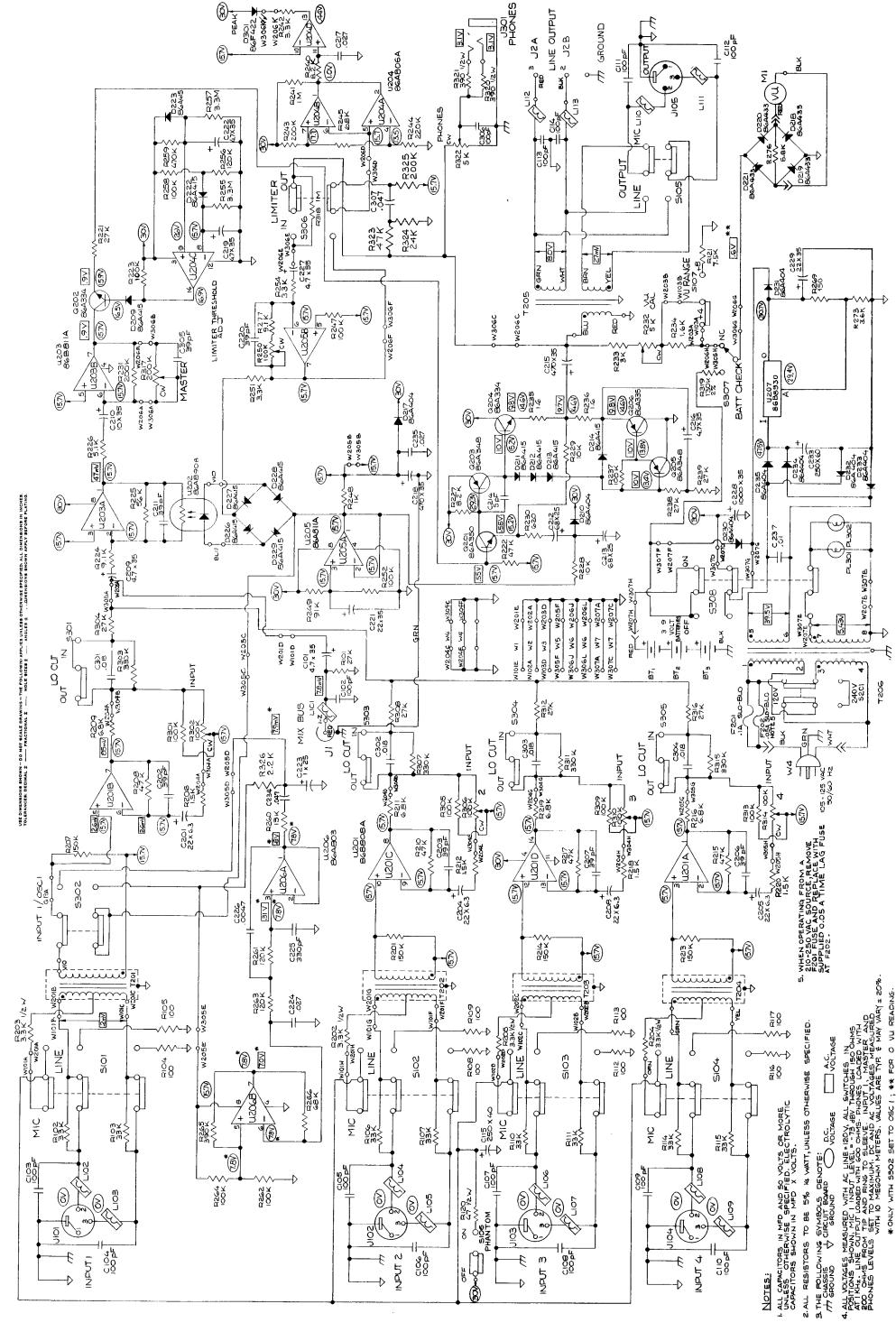
6. Replace the cover and end caps, and mark the rear panel to reflect the new operating voltage.

## PRINTED CIRUCIT BOARDS COMPONENT SIDE



## **INPUT TRANSFORMERS T201-T204**





## REPLACEMENT PARTS LIST

C101,C209, C219, C227, C232         86T628         Capacitor, Electrolytic, 5 μF, 25V         Sprague TVA 1303           C115         86L628         Capacitor, Electrolytic, 250 μF, 50V         Sprague 501D227F063PR           C201, C204- C205, C208         86V628         Capacitor, Electrolytic, 22 μF, 6.3V         Sprague 501D226F016LL           C210         86M630         Capacitor, Electrolytic, 10 μF, 25V         Sprague TE 1204           C212-C213         86R630         Capacitor, Electrolytic, 68 μF, 25V         Sprague 501D686F025MN           C215, C218         86L626         Capacitor, Electrolytic, 470 μF, 35V         Sprague 503D477F035QE           C216, C222         86A630         Capacitor, Electrolytic, 5 μF, 35V         Sprague TE1303           C221, C229         86N630         Capacitor, Electrolytic, 22 μF, 35V         Mallory F226KM           C223         86S628         Capacitor, Electrolytic, 1 μF, 50V         Sprague TVA1300           D209, D211-D214, D224, D222-D223, D226-D229         Diode, Silicon, Computer, 75V         TI 1N4148           D210, D217, D235         86A404         Silicon Rectifier, 100V, 1/2A         Motorola 1N4002	
C201, C204- C205, C208         86V628         Capacitor, Electrolytic, 22 μF, 6.3V         Sprague 501D22F063PR           C210         86M630         Capacitor, Electrolytic, 10 μF, 25V         Sprague TE 1204           C212-C213         86R630         Capacitor, Electrolytic, 68 μF, 25V         Sprague TE 1204           C215, C218         86L626         Capacitor, Electrolytic, 470 μF, 35V         Sprague 501D686F025MN           C216, C222         86A630         Capacitor, Electrolytic, 5 μF, 35V         Sprague TE1303           C221, C229         86N630         Capacitor, Electrolytic, 22 μF, 35V         Sprague TE1303           C223         86S628         Capacitor, Electrolytic, 1 μF, 50V         Sprague TVA1300           D209, D211-D214, D222-D223, D226-D229         Diode, Silicon, Computer, 75V         TI 1N4148           D210, D217, D230-D235         86A404         Silicon Rectifier, 100V, 1/2A         Motorola 1N4002	
C205, C208         S01D226F016LL           C210         86M630         Capacitor, Electrolytic, 10 μF, 25V         Sprague TE 1204           C212-C213         86R630         Capacitor, Electrolytic, 68 μF, 25V         Sprague 501D686F025MN           C215, C218         86L626         Capacitor, Electrolytic, 470 μF, 35V         Sprague 503D477F035QE           C216, C222         86A630         Capacitor, Electrolytic, 5 μF, 35V         Sprague TE1303           C221, C229         86N630         Capacitor, Electrolytic, 22 μF, 35V         Mallory F226KM           C223         86S628         Capacitor, Electrolytic, 1 μF, 50V         Sprague TVA1300           D209, D211-D214, D222-D223, D226-D229         Diode, Silicon, Computer, 75V         TI 1N4148           D210, D217, D230-D235         86A404         Silicon Rectifier, 100V, 1/2A         Motorola 1N4002	
C212-C213         86R630         Capacitor, Electrolytic, 68 μF, 25V         Sprague 501D686F025MN           C215, C218         86L626         Capacitor, Electrolytic, 470 μF, 35V         Sprague 503D477F035QE           C216, C222         86A630         Capacitor, Electrolytic, 5 μF, 35V         Sprague TE1303           C221, C229         86N630         Capacitor, Electrolytic, 22 μF, 35V         Mallory F226KM           C223         86S628         Capacitor, Electrolytic, 1 μF, 50V         Sprague TVA1300           D209, D211-D214, D222-D223, D226-D229         Diode, Silicon, Computer, 75V         TI 1N4148           D210, D217, D230-D235         86A404         Silicon Rectifier, 100V, 1/2A         Motorola 1N4002	
C215, C218  86L626  Capacitor, Electrolytic, 470 μF, 35V  Sprague 503D477F035QE  C216, C222  86A630  Capacitor, Electrolytic, 5 μF, 35V  Sprague F1303  C221, C229  86N630  Capacitor, Electrolytic, 22 μF, 35V  Mallory F226KM  C223  86S628  Capacitor, Electrolytic, 1 μF, 50V  Sprague TE1303  Mallory F226KM  Sprague TE1303  Mallory F226KM  Sprague TE1303  TI 1N4148  TI 1N4148  Sprague TE1303  TI 1N4148  TI 1N4148  Sprague TE1303  Mallory F226KM  Sprague TE1303  Sprague TE1303  TI 1N4148  TI 1N4148  Motorola 1N4002	
C216, C222 86A630 Capacitor, Electrolytic, 5 μF, 35V Sprague TE1303 C221, C229 86N630 Capacitor, Electrolytic, 22 μF, 35V Mallory F226KM C223 86S628 Capacitor, Electrolytic, 1 μF, 50V Sprague TVA1300 D209, D211-D214, D222-D223, D226-D229 D210, D217, D230-D235 Silicon Rectifier, 100V, 1/2A Motorola 1N4002	
C221, C229 C223 B6N630 B6S628 Capacitor, Electrolytic, 22 μF, 35V Capacitor, Electrolytic, 1 μF, 50V Capacitor, Electrolytic, 12 μF, 35V Capaci	
C223       86S628       Capacitor, Electrolytic, 1 μF, 50V       Sprague TVA1300         D209,       D211-D214,       Diode, Silicon, Computer, 75V       TI 1N4148         D222-D223,       D226-D229       Silicon Rectifier, 100V, 1/2A       Motorola 1N4002	
D209, D211-D214, D222-D223, D226-D229 D210, D217, D230-D235  86A404  Diode, Silicon, Computer, 75V  TI 1N4148  TI 1N4148  Motorola 1N4002	
D211-D214, D222-D223, D226-D229 D210, D217, D230-D235  86A404 Silicon Rectifier, 100V, 1/2A Motorola1N4002	
D230-D235	
D218-D221 86A405 Diode, Germanium, 30V RCA 1N48, 1N60	
D301 86F422 Diode,Light-Emitting GeneralInstrumer MV5075C	[
F201 80F159 Fuse, Slow–Blow, 3AG, 0.1A, 250V Littlefuse 313000 Sries	e-
F202 80C380 Fuse, Time Lag, 0.05A, 250V Schurter 034.3104	
J1 95C450 Jack, Phono Switchcraft 3511A	
J2A, B 90T2600 Connectors, Binding Post None	
J101-J104 95B8011 Connector, 3-Pin Female XLR Switchcraft Y3FDF	С
J105 95B8012 Connector, 3-Pin Male XLR Switchcraft Y3MP0	;
J301 90BJ2600 Phone Jack Switchcraft L-1128	PC
L101-L113 80A365 Ferrite Bead Ring Panasonic Exc-ELSA35	
M1 RKC170 (95A8214) Meter, 190 μA None	
MP1-MP5 90A8028 Knob, MIC 1-4, MASTER None	
MP6 90A8029 Knobs, PHONE None	
MP7 90A8027 Cover, Battery None	
MP8-MP9 65A8008 End Cap None	

REFERENCE DESIGNATION	PART NUMBER	DESCRIPTION	COMMERCIAL ALTERNATE
PL301-PL302	95A8010	Lamp, 6.3V, 0.2A	Sylvania 86
Q201	86A350	Transistor, NPN	Motorola2N5210
Q202, Q204	86A334	Transistor, NPN	Rohm TIS92
Q203, Q205	86A348	Transistor, PNP	Motorola2N5087
Q206	86A335	Transistor, PNP	Rohm TIS93
Q207	86A8302	Transistor, PNP	Motorola TIP30A
R250	46A8016	Potentiometer, 100k	None
R302, R306, R310, R314	46B8000	Potentiometer, 100k	None
R317	46C8000	Potentiometer, 200k	None
R322	46D8000	Potentiometer, 5k	None
S101-S104	55B8008	Switch, Slide, 3PDT	None
S105, S302, S306	55B8007	Switch, Slide, DPDT	None
\$106-\$107,\$301, \$303-\$305	55B8001	Switch, Slide, DPDT	None
S201	55A8035	Switch, Slide, DPDT	Switchcraft EPS1-PC1
S307	90CB2600	Switch, Pushbutton, SPDT	Switchcraft 953
S308	55A8009	Switch, Slide, 3PDT	None
T201-T204	95B8165	Transformer, Input	None
T205	51E235A	Transformer, Output	None
T206	51A8021	Transformer, Power	None
U201	86B808A	Integrated Circuit, Quad Op Ampl (Selected for NF)	Raytheon RC4156N
U202	86A8908	Opto-Isolator	None
U203	86A811A	Integrated Circuit, Dual Op Ampl	Raytheon RC4559NB
U204	86A806A	Integrated Circuit, Quad Comparator	Raytheon LM339DB
U205	86A811A	Integrated Circuit, Dual Op Ampl	Raytheon RC4559NB
U206	86A803	Integrated Circuit, Dual Op Ampl	Motorola MC1458C-P1
U207	86B8930	Integrated Circuit, Voltage Regulator	NationalSemiconductor LM317AT
W1	90A8045	Line Cord, AC	None

Parts listed as RKC Kits should be ordered by that kit number.