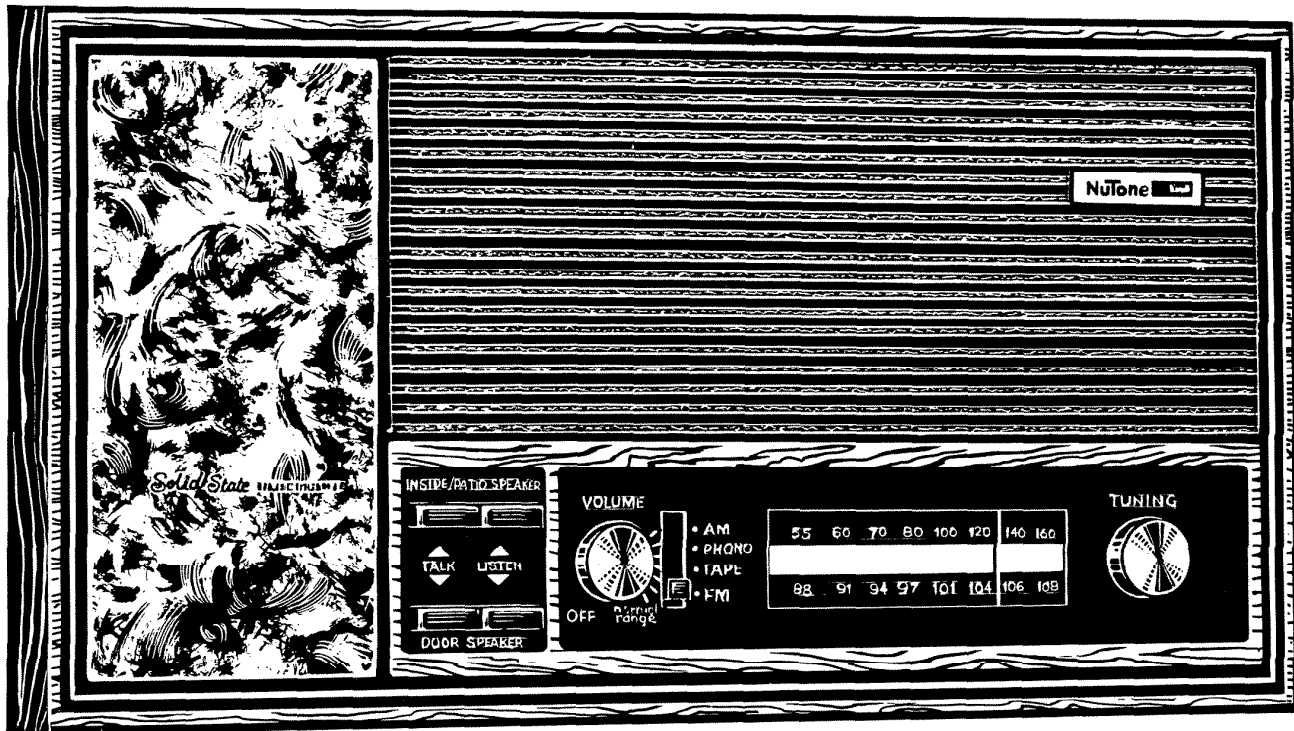


SERVICE MANUAL

SUPPLEMENT
UPDATE

MODEL: IMA-406



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GENERAL INFORMATION

The IM-406 Series Centralized Radio/Intercom System has an IM-406 Service Manual (Part No. 46647-000) and a Service Manual Supplement for the IMA-406 (Form FE-935-1). This Updated Supplement provides a schematic diagram, PC board layouts and parts lists for components altered since the IMA-406 Service Manual Supplement was issued.

NuTone

Housing Group

Scovill

TUNER

1. The IM-406 Series Radio/Intercom Master Units were supplied with a new Tuner Module beginning November of 1980. The Complete Assembly Tuner Module is NuTone Part No. 42567-000 identified by PC Board 37751.

1.2 These new Tuner Modules are direct replacements

for the original Tuner Modules in all series of the IM-406 Radio/Intercoms.

1.2.1 See Pages 3 and 4 of this Updated Supplement for alignment of this Tuner. For additional servicing of this Tuner refer to NuTone AM/FM Tuner Module Service Manual Supplement (Part No. FS 1165).

AMPLIFIER/POWER SUPPLY CIRCUIT BOARD

1. The IM-406 (first Model of the 406 series) Radio/Intercom Master Unit's amplifier/power supply incorporated discrete components including individual transistors in the audio voltage and audio power amplifier circuits.

1.1 The original PC board can be identified by its NuTone Part No. 37600.

1.2 The original IM-406 Master Unit should be serviced with reference to the IM-406 Service Manual, NuTone Part No. 46647-000.

Original Production IMA-406 Amplifier/Power Supply

2. The original production of the IMA-406 amplifier/power supply used PC board, Part No. 37760, as shown in the IMA-406 Supplement, Form FE-935-1.

2.1 This circuit included changes in the voltage regulator circuits and replaced some of the audio circuit transistors with an audio voltage and power amplified integrated circuit (IC).

2.2 In the power supply voltage regulator circuit, the 22V DC output of the bridge rectifier is fed to the 15.5V DC regulator at collector of Q205. Regulated 15.5V DC from emitter of Q205 supplies VCC to Q201, Q202, and Q203 and to the audio integrated circuit IC201.

Intermediate Production IMA-406 Amplifier/Power Supply

3. A revised PC board, Part No. 37748, included

relocation of part of the feedback network (C214) and the output coupling capacitor (C211).

3.1 The 12V DC voltage regulator IC (IC202) input source was changed from 22V DC to 15V DC and an input bypass capacitor (C231) was added. The regulated 15V DC is fed to the input of the 12V DC regulator IC202. The regulated 12V DC is fed from the output of IC202 through the program selector switch and then, depending on the program selected, to the AM or FM tuner.

4. A revised PC board, Part No. 37753, is identical to board No. 37748 with this exception: The Entertainment Program Level Set Control, 2.2M ohm variable resistor R 216, is not used in this or the latest production unit's amplifier circuit. It has been replaced by the 68 K ohm fixed resistor R 230.

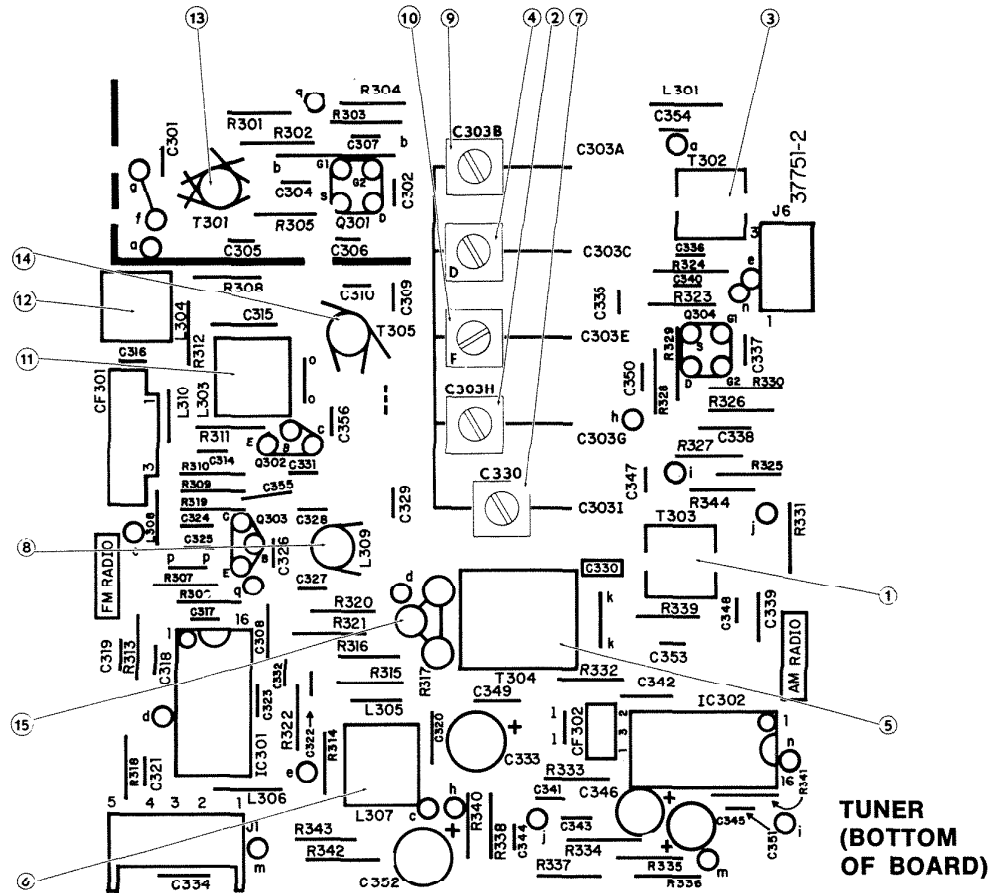
Latest Production IMA-406 Amplifier/Power Supply

5. This PC board, Part No. 37763, is shown on page 8 and in the Schematic Diagram on pages 6 and 7.

5.1 This circuit differs from the earlier IMA-406 circuits in the Audio IC Output Circuit. To improve lightning and static protection, the 100 microhenry choke L201 has been added to the amplified audio output and C214 output connection has been moved from the output side of C211 to amplifier output at IC201-2.

TUNER ALIGNMENT

AM ALIGNMENT



MASTER UNIT SETTINGS:

1. SELECTOR SWITCH S102 in AM position.
2. VOLUME ALL SPEAKERS CONTROL R103 set to desired level.

INSTRUMENTS REQUIRED:

1. CATHODE RAY OSCILLOSCOPE:
 - 1.1 High-side of vertical input connected through a 15K, ½-watt resistor to tuner's AM audio output at J1/P1-1.
 - 1.2 Low-side (ground) of vertical input connected to receiver's circuit ground at J1/P1-5.

- 1.3 VTVM (or other high-impedance input meter) may be used, but recommend oscilloscope so that linearity as well as amplitude of the recovered audio signal may be observed.

2. AM SIGNAL GENERATOR:

- 2.1 Modulate RF output with 400 Hz. @ 30%.
- 2.2 Connect high-side of generator output through a 200 pf (ceramic or mica) capacitor to shield (braid) of the coax antenna lead-in.
- 2.3 Connect low-side (ground) of generator output to tuner module ground at RF shield.

TO PREVENT ACTIVATION OF AGC, KEEP RF SIGNAL GENERATOR OUTPUT AT MINIMUM LEVEL THROUGHOUT ALIGNMENT PROCEDURE

STEP	SIGNAL GENERATOR SETTING	RECEIVER SETTING	ADJUST	TUNE FOR
1.	537 KHz. use minimum signal level required. Do not drive tuner to AGC.	AM Tuning Dial to 537 KHz. (Ganged tuning capacitor C303 fully closed.)	① T302, oscillator low-frequency padder; and mixer to oscillator feedback coupling.	Maximum linear sine wave trace on scope; or maximum voltage on meter.
2.	1620 KHz. (Check level)	AM Tuning Dial to 1620 KHz. (Ganged tuning capacitor C303 fully open).	② C303H oscillator high frequency trimmer.	do
3.	Reducing signal generator as required: Repeat steps 1 and 2 until no further improvement can be made and oscillator tunes at both ends of AM band.			
4.	600 KHz. (Check level)	AM Tuning Dial to 600 KHz.	③ T302 AM Antenna to RF Amplifier input Transformer.	do
5.	1500 KHz. (Check level)	AM Tuning Dial to 1500 KHz.	④ C303D AM antenna to RF Amplifier input trimmer.	do
6.	Reducing signal generator as required. Repeat steps 3 and 4 until no further improvement can be made and RF tuning tracks across the band.			
7.	1500 KHz. (Check level)	AM Tuning Dial to 1500 KHz.	⑤ T304 AM IF (455 KHz.) Transformer: primary and secondary (top and bottom slug).	do

TUNER ALIGNMENT

FM ALIGNMENT

MASTER UNIT SETTINGS:

1. SELECTOR SWITCH S102 in FM position.
2. VOLUME ALL SPEAKERS CONTROL R103 set to desired level.
3. SQUELCH CONTROL R317 (on tuner module) set to minimum.

INSTRUMENTS REQUIRED:

1. CATHODE RAY OSCILLOSCOPE:
 - 1.1 High-side of vertical input connected through a 15K, 1/2-watt resistor to tuner's FM audio output at J1/P1-4.

1.2 Low-side (ground) of vertical input connected to receiver's circuit ground at J1/P1-5.

1.3 Use 60 Hz. horizontal sweep. If scope does not have own 60 Hz. horizontal sweep, use exterior source.

2. FM SIGNAL GENERATOR:

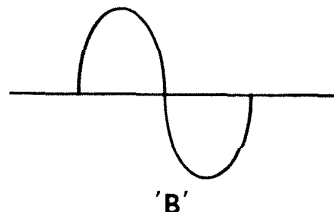
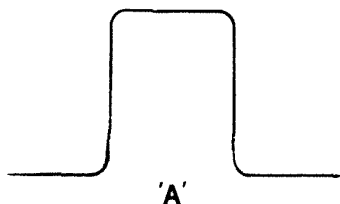
2.1 Modulate RF output with 60 Hz. at 400 KHz. sweep width.

2.2 Connect a 50-ohm resistor across RF output of signal generator.

2.3 Connect high-side of generator's output to center conductor of coax antenna lead-in.

2.4 Connect low-side (ground) of signal generator's output to shield (braid) of coax lead-in.

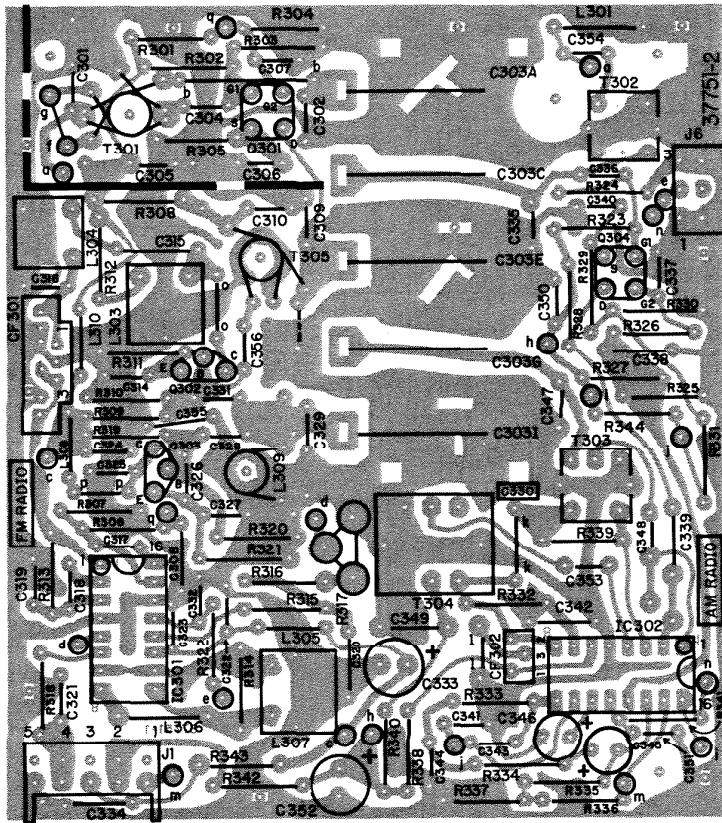
TO PREVENT LIMITING, SIGNAL GENERATOR OUTPUT LEVEL SHOULD BE AS LOW AS POSSIBLE CONSISTENT WITH GOOD TRACE ON SCOPE



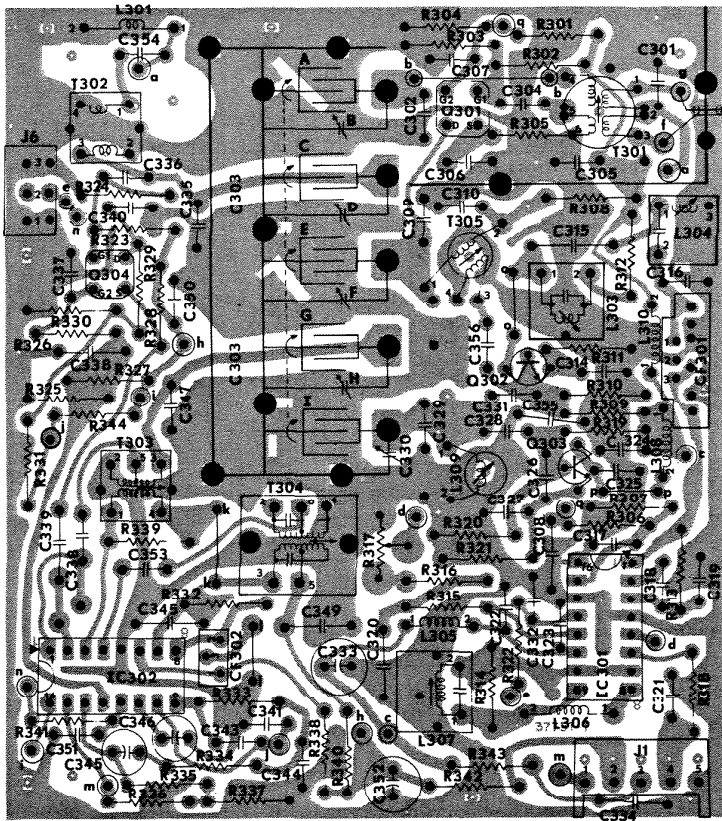
STEP	SIGNAL GENERATOR SETTING	TUNER SETTING	ADJUST	TUNE FOR
1.	106 MHz. @ 2 to 5 micro-volts. (If generator does not have a calibrated output, use lowest level consistent with good trace on scope.)	Tune receiver time receiver to pick up signal generator.	⑥ L307 quadrature coil. Detune coil to get wave-form "A" above. If wave is negative, reverse direction of slug detuning.	Maximum trace on scope as shown in "A" above. Sacrifice gain for linearity and flat-top. If necessary, reduce signal generator output to prevent limiting.
2.	108.5 MHz. (Check level)	FM tuning dial to 108.5 MHz. (ganged tuning capacitor C303 full open.)	⑦ C330 oscillator trimmer.	do
3.	87.5 MHz. (Check level)	FM tuning dial to 87.5 MHz. (Ganged tuning capacitor C303 full close.)	⑧ L309 oscillator coil. Use extreme care, adjust in small increments.	do
4.	Repeat steps 2 and 3. Oscillator should be "Rocked-in" at both ends of dial.			
5.	106 MHz. (Check level)	FM tuning dial to 106 MHz.	⑨ C303B RF input trimmer. ⑩ C303F RF amplifier output trimmer. ⑪ L303 FM Mixer tank to 10.7 MHz. IF. ⑫ L304 FM mixer 10.7 MHz. IF coupler.	do
6.	90 MHz. (Check level)	FM tuning dial to 90 MHz.	⑬ T301 antenna input transformer. Two peaks may be noted when adjusting this slug. USE THE PEAK WITH THE SLUG POSITIONED NEAR THE BOTTOM OF THE COIL. ⑭ T305 RF amplifier drain tank and mixer coupler.	do
7.	Repeat steps 5 and 6 until no further improvement in scope trace is noted at either setting. As the set is aligned, it may be necessary to reduce signal generator output in order to prevent FM tuner limiting.			
8.	90 MHz. (Check level, do not drive tuner to limiting.)	FM tuning dial to 90 MHz.	⑥ L307 quadrature coil.	Maximum symmetrical "S" curve. See "B" above. Curve should be linear and equal distance above and below the scope's horizontal reference line.
9.	90 MHz.	FM tuning dial to 90 MHz.	Increase signal generator output until tuner goes into limiting. Should occur before signal generator output reaches 10 microvolts.	Maximum symmetrical "S" curve that does not increase in amplitude after tuner limiting is reached.
10.	Check limiting action across band: With output set at 10 microvolts tune signal generator to various frequencies across the FM broadcast band (88-108 MHz.). Adjust FM tuning dial to receive these frequencies. Linear "S" curve should remain constant in amplitude at every frequency.			
11.	Disconnect signal generator and, if used, external sweep to scope. Scope should use regular horizontal sweep. Tune receiver between stations and note noise at J1/P1-4 as seen on scope. Turn FM SQUELCH CONTROL R317 ⑮ clockwise to full squelch. Noise should disappear from scope and horizontal trace should be a straight line.			

PRINTED CIRCUIT BOARDS

New Tuner Board

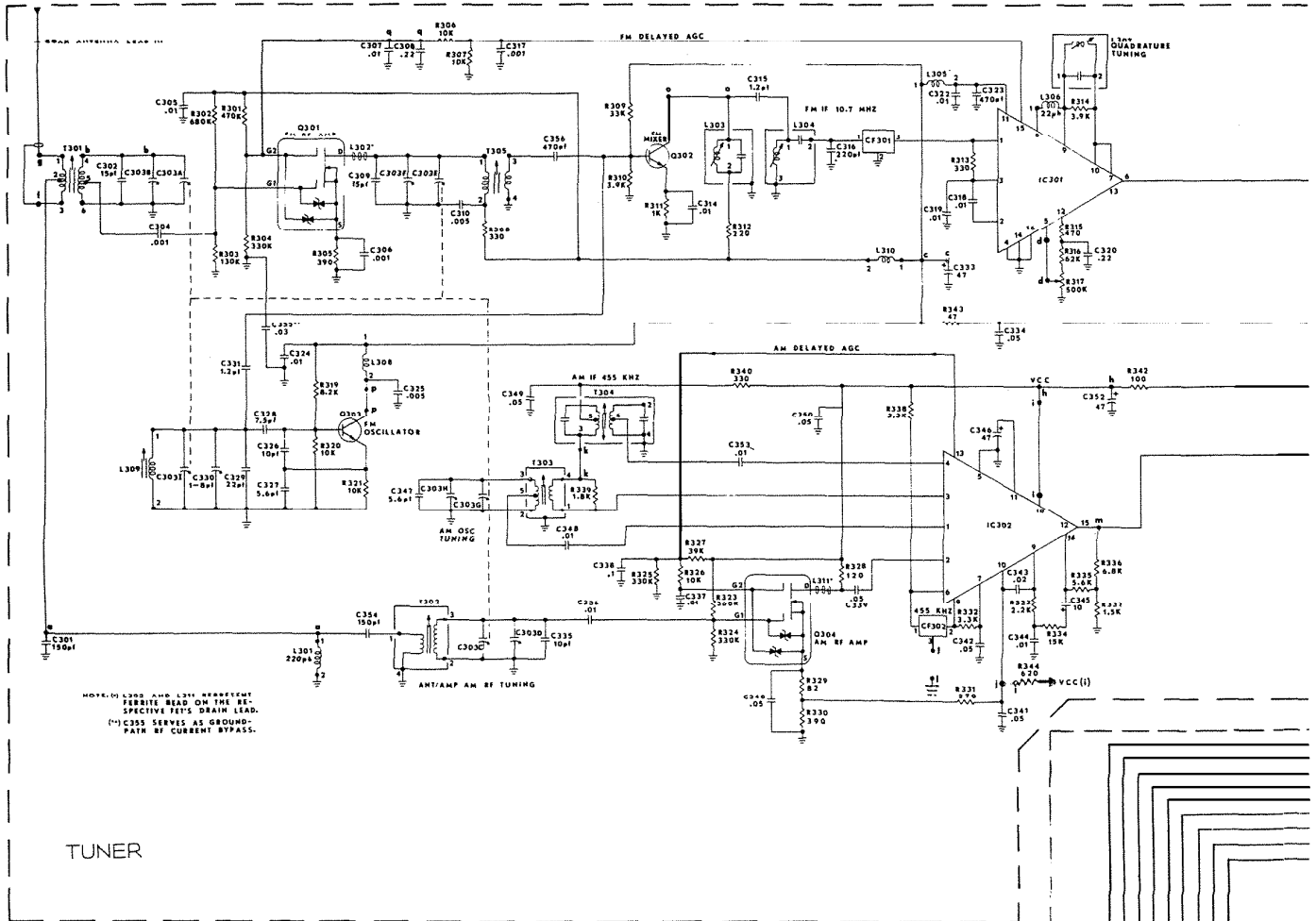


COMPONENT
SIDE
(37751)

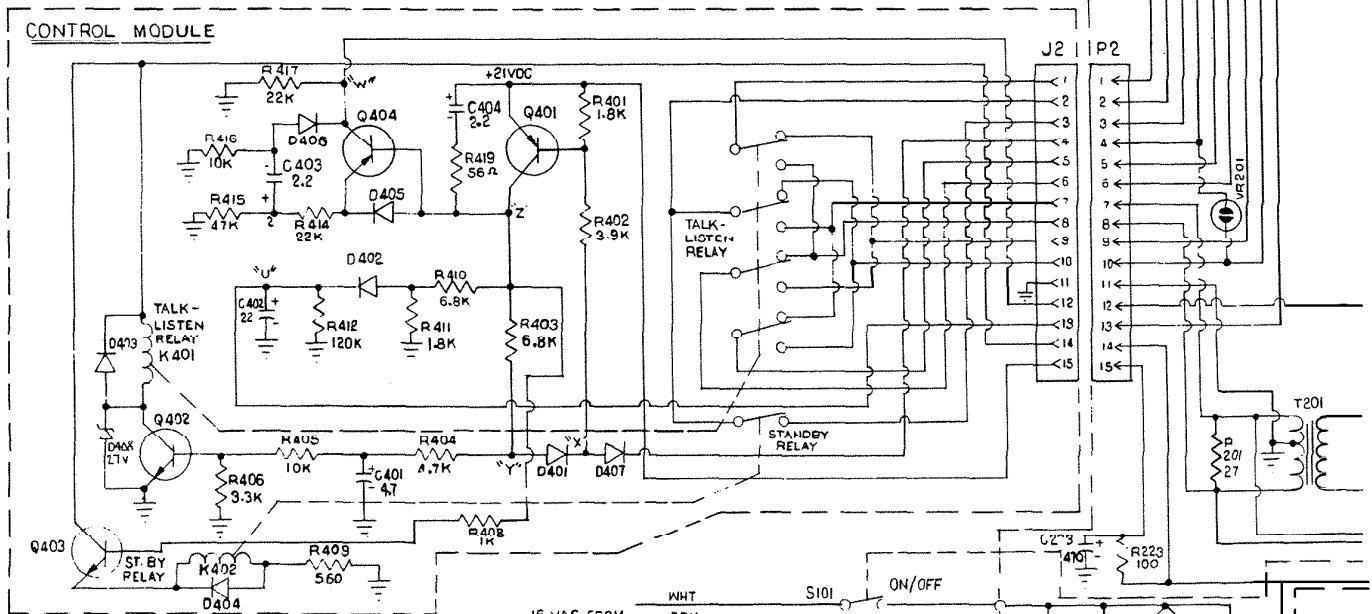


PC PATTERN
SIDE
(37751)

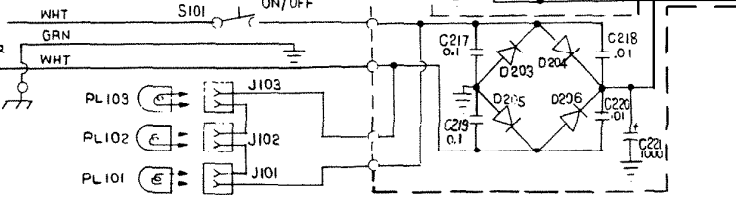
INTERCONNECT SCHEMATIC DIAGRAM

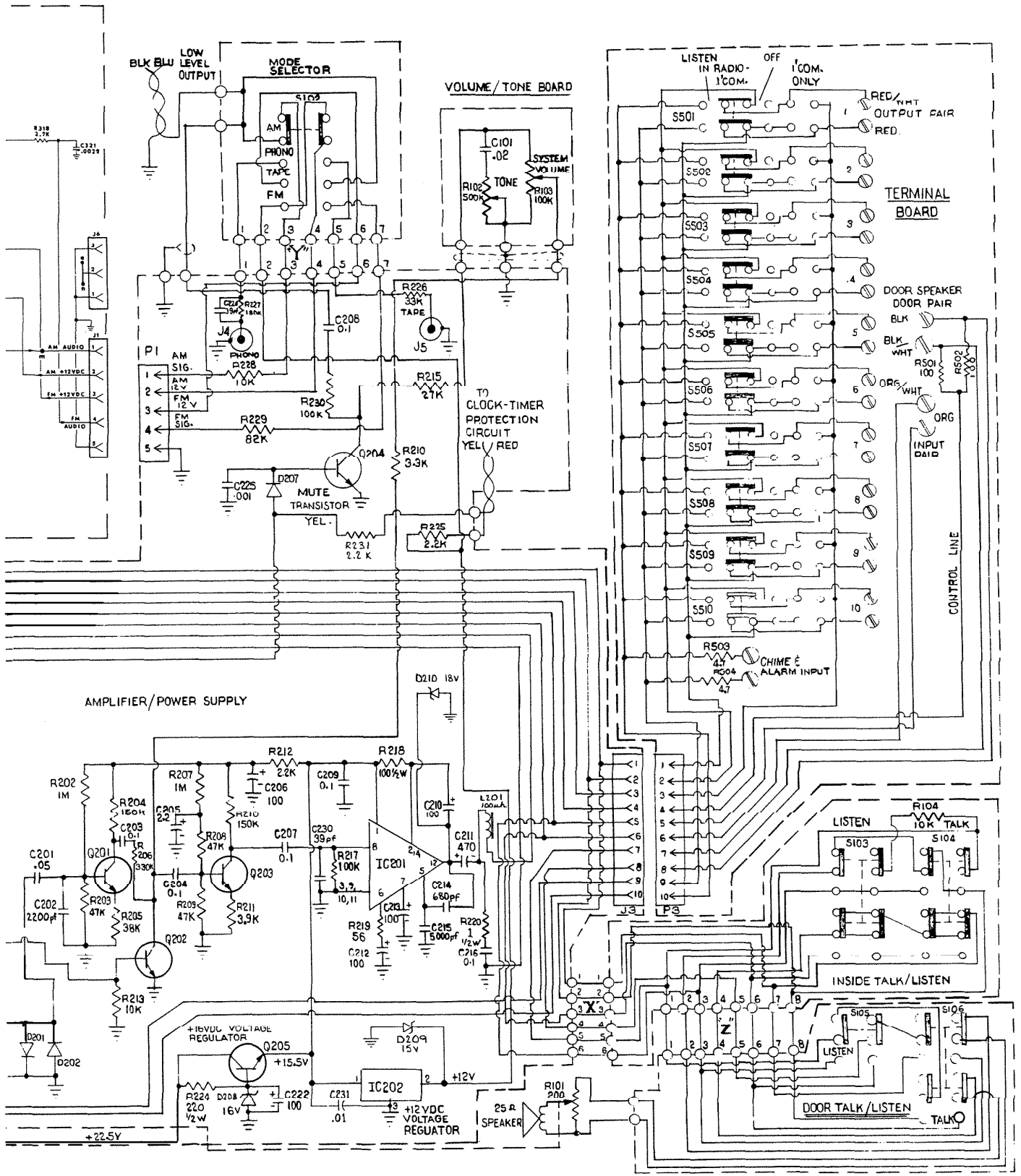


TUNER



- NOTES:
1. ALL RESISTORS 1/4 WATT, UNLESS OTHERWISE SPECIFIED VALUE IN OHMS, TOLERANCE ±3%.
 2. ALL CAPACITOR VALUES IN MFD. UNLESS OTHERWISE SPECIFIED
 3. COMPONENT IDENTIFICATION: 100 - CHASSIS MOUNTED COMPONENTS
 200 - AMPLIFIER/POWER SUPPLY
 300 - RADIO MODULE
 400 - CONTROL MODULE
 500 - TERMINAL BOARD

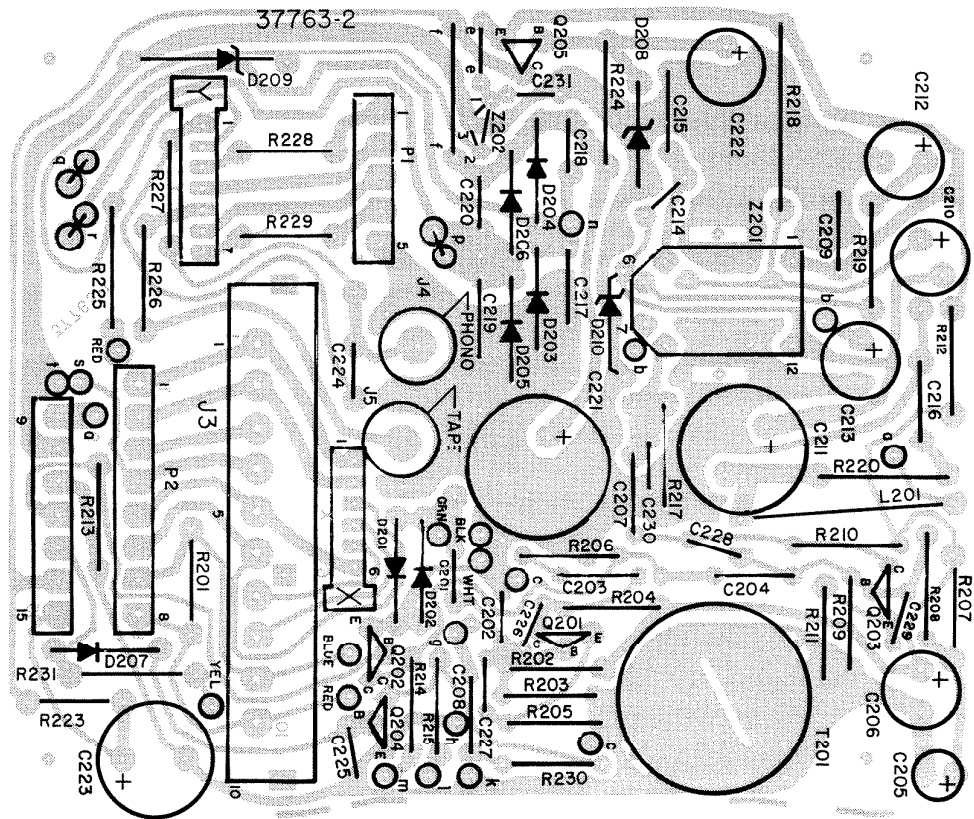




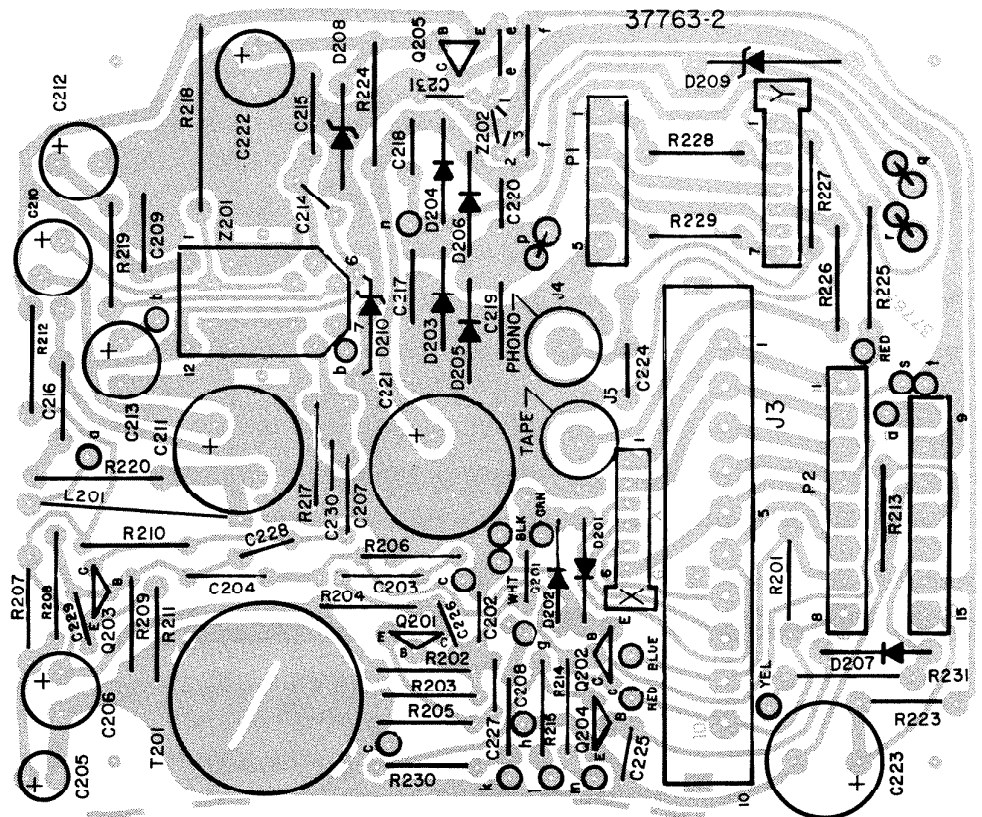
PRINTED CIRCUIT BOARDS

New Amplifier/Power Supply

COMPONENT
SIDE
(37763)



PC PATTERN
SIDE
(37763)



REVISED REPLACEMENT PARTS

Resistors: Value in Ohms \pm 5%, 1/4-watt, Carbon Film, unless otherwise noted.

K = Kilo = 10^3 M = Mega = 10^6

Capacitors: Value in micro farads (10^{-6}) \pm 10%, 500Vdc, Ceramic Disc, unless otherwise noted.

p = pico = 10^{-12}

Schematic Symbol	NuTone Part No.	Description
AM/FM TUNER MODULE		
	42567-000	Complete Assembly
	37751-000	PC Board
Capacitors		
C301	35100-174	150 pf
C302	35101-142	15 pf
C303A-J	35092-000	Ganged, AM and FM Tuning
C304	35100-120	.001
C305	35100-139	.01 \pm 20%, 50V
C306	35100-120	.001
C307	35100-139	.01 \pm 20%, 50V
C308	35076-101	.22 + 80%, - 20%, 12V
C309	35101-142	15 pf
C310	35100-138	.005 \pm 20%, 100V
C311, C312, C313	Not Used	
C314	35100-139	.01 \pm 20%, 50V
C315	35101-147	1.2 pf, 0.25%/pf
C316	35100-125	220 pf
C317	35100-120	.001
C318, C319	35100-139	.01 \pm 20%, 50V
C320	35076-101	.22 + 80%, - 20%, 12V
C321	35100-156	.0022
C322	35100-139	.01 \pm 20%, 50V
C323	35101-139	470 pf
C324	35100-139	.01 \pm 20%, 50V
C325	35100-138	.005 \pm 20%, 100V
C326	35101-140	10 pf
C327	35101-141	5.6 pf
C328	35101-135	7.5 pf
C329	35101-148	22 pf, 100V
C330	35090-000	1-8 pf, 100VAC, Oscillator Trimmer ALPS #CTY 114B11
C331	35101-126	1.2 pf, \pm 0.25%/pf
C332	Not Used	
C333	35091-109	47 + 100%, - 10%, 25WVDC Electrolytic
C334	35100-141	.05 + 80%, - 20%, 50V
C335	35101-140	10 pf
C336, C337	35100-139	.01 \pm 20%, 50V
C338	35076-106	.1 \pm 20%, 25V
C339	35100-141	.05 + 80%, - 20%, 12V
C340, C341	35076-104	.082 + 80%, - 20%, 12V
C342	35100-141	.05 + 80%, - 20%, 50V
C343	35076-108	.02 \pm 20%, 16V
C344	35100-139	.01 \pm 20%, 50V
C345	35091-102	10 + 100%, - 10%, 16WVDC, Electrolytic
C346	35091-109	47 + 100%, - 10%, 25WVDC, Electrolytic
C347	35101-141	5.6 pf
C348	35100-139	.01 \pm 20%, 50V

Schematic Symbol	NuTone Part No.	Description
C349	35100-141	.05 + 80%, - 10%, 50V
C350	35076-104	.082 + 80%, - 20%, 12V
C351	Not Used	
C352	35091-109	47 + 100%, - 10%, 25WVDC, Electrolytic
C353	35100-139	.01 \pm 20%, 50V
C354	35100-174	150 pf
C355	35100-193	.03 + 80%, - 20%, 50V
C356	35101-139	470 pf
Integrated Circuits		
IC301	36623-000	Monolithic IC, FM IF Amplifier, Detector, Audio Preamplifier, etc. RCA CA3089E
IC302	36622-000	Monolithic IC, AM Oscillator/ Mixer, IF Amplifier, Detector, AF Preamplifier, etc. RCA CA3088E
Connectors		
J1	39339-101	5-pin receptacle
Coils		
L301	30106-000	220 microhenry \pm 10% @ 50 mA
L302	35232-000	Ferrite Bead, FM RF amplifier drain- lead parasitic suppressor
L303	30590-000	10.7 MHz. tank circuit for FM Mixer collector load
L304	30591-000	10.7 MHz. adjustable coupling between FM Mixer collector and CF301
L305	30062-000	RF Choke (decoupler)
L306	30105-000	22 microhenry \pm 10% @ 100 mA
L307	30092-000	10.7 MHz. adjustable quadrature coil
L308	30062-000	RF Choke (decoupler)
L309	30088-000 30073-000 31915-000	Coil, FM Oscillator Form, for oscillator coil L309 Core, powdered iron (Tuning Slug) for oscillator coil
L310	30062-000	RF Choke (decoupler)
L311	35232-000	Ferrite Bead, AM RF amplifier drain- lead parasitic suppressor
Transistors		
Q301	36624-000	DGFET, FM RF Amplifier General Instruments Corp MEM615A, MEM614 Motorola MFE-130 Texas Inst. 3N203
Q302	36578-000	Silicon, NPN, Epitaxial Planar, FM Mixer Texas Inst. SKA-4231 Motorola SPS 4484 National Semiconductor SM-43-049

REVISED REPLACEMENT PARTS

Schematic Symbol	NuTone Part No.	Description
Q303	36581-000	Silicon, NPN Planar FM Oscillator Texas Inst. 5KA-4230 National Semiconductor SM-43-050
Q304	36624-000	DGFET, AM RF Amplifier (for suppliers, see Q301 above)
Ceramic Filters		
CF301	36109-000	FM 10.7 MHz. IF: Ceramic Murata Corp. SFE10.7MS23 Murata Corp. SFW-10.7Ma
CF302	36087-000	AM 455 KHz. IF: Ceramic Murata Corp. SFB4550
Resistors		
R301	33082-474	470K
R302	33082-684	680K
R303	33082-124	120K
R304	33082-334	330K
R305	33082-391	390
R306, R307	33082-103	10K
R308	33082-331	330
R309	33082-333	33K
R310	33082-392	3.9K
R311	33082-102	1K
R312	33082-221	220
R313	33082-331	330
R314	33082-392	3.9K
R315	33082-471	470
R316	33082-623	62K
R317	34043-000	0-500K \pm 30%, 0.1W, linear taper Squelch Control CTS Corp. Type X-201
R318	33082-277	2.7K
R319	33082-822	8.2K
R320, R321	33082-103	10K
R322	Not Used	
R323	33082-564	560K
R324, R325	33082-334	330K
R326	33082-103	10K
R327	33082-393	39K
R328	33082-121	120
R329	33082-820	82
R330	33082-391	390
R331	33082-271	270
R332	33082-332	3.3K
R333	33082-222	2.2K
R334	33082-153	15K
R335	33082-562	5.6K
R336	33082-682	6.8K
R337	33082-152	1.5K
R338	33082-332	3.3K
R339	33082-182	1.8K
R340	33082-331	330
R341	Not Used	
R342	33082-101	100
R343	33082-470	47
R344	33082-621	620

Schematic Symbol	NuTone Part No.	Description
Transformers		
T301	30087-000 30108-000 30107-000 31915-000 30073-000	RF. Antenna/RF-Amplifier input Primary Winding Secondary Winding Tap Section Secondary Winding Core, powdered iron (Tuning Slug) Coil Form
T302	30597-000	AM, 537-1620 KHz. operating range Antenna/RF-Amplifier input Toko America RHR-42185R G.I. Ex. #27402
T303	30598-000	AM, 992-2075 KHz. operating range Oscillator Tuning/Coupling Toko America RWR-42209N Gen. Inst. Tex #3227
	30599-000	Alternate EL-Filters, Inc. EO #405
T304	30579-000	AM IF, 455 KHz. TRW #50137 Gen. Inst. Corp. #22567
T305	30087-000 30109-000 31915-000 30073-000	RF. RF Amplifier output/FM Detector input Primary Winding Secondary Winding Core, powdered iron (Tuning Slug) Coil Form
Miscellaneous		
	42491-000	Cable, Coaxial Assembly Complete. Antenna Lead-in
	35303-003	Shield, RF
AMPLIFIER/POWER SUPPLY MODULE		
	42564-000	Complete Assembly
	37763-000	PC Board
Diodes		
D201-D207	36549-000	Rectifier, 1N4002
D208	39594-000	Zener, 16V @ 15.5 mA DC 1 Watt, 1N4745
D209	36631-000	Zener, 15V, 1N4744A
D210	36639-000	Zener, 18V, 1N4746
Resistors		
R201	33082-270	27
R202, R207	33082-105	1 Megohm
R203	33082-473	47K
R204, R210	33082-154	150K
R205, R211	33082-392	3.9K
R206	33082-334	330K
R208, R209	33082-473	47K
R213, R228	33082-103	10K
R214	33082-332	3.3K
R215	33082-273	27K
R217, R230	33082-104	100K
R218	33101-101	100, 1/2W
R219	33082-560	56
R220	33084-010	1, 1/2W
R223	33082-101	100
R224	33101-221	220, 1/2W

REVISED REPLACEMENT PARTS

Schematic Symbol	NuTone Part No.	Description
R225, R231	33101-120	2.2K, 1/2W
R226	33082-333	33K
R227	33082-184	180K
R229	33082-823	82K
Capacitors		
C201	35129-102	.047, Axial Lead
C202	35129-120	2200 pf, Axial Lead
C203	35076-106	.1, 25V
C204, C216	35129-114	.1, Axial Lead
C205	35091-111	2.2, 25V
C206, C210	35091-108	100, 25V Electrolytic
C207, C208	35129-114	.1, Axial Lead
C209	35129-105	.22, Axial Lead
C211	35091-121	1000, 35V Electrolytic
C212, C213	35091-108	100, 25V, Electrolytic
C214	35100-183	680 pf
C215	35100-187	5000 pf
C217, C219	35129-104	.1, Axial Lead
C218	35076-107	.01, 50V
C220, C231	35129-107	.01, Axial Lead
C221, C223	35091-121	1000, 35V, Electrolytic
C222	35091-108	100, 25V, Electrolytic
C224	35129-119	39 pf, Axial Lead
C225	35100-120	1000 pf
C230	35100-172	39 pf
Transistors		
Q201, Q203	36580-000	NPN Planar Silicon, Texas Inst. SKA-4220, Motorola SPS-1216
Q202, Q204	36613-000	NPN Planar Silicon, Motorola MPS-A20
Q205	36664-000	NPN Power Silicon, Motorola SJE 1513
Integrated Circuits		
IC201	36647-000	Power Amplifier, SGS-ATES TBA 810S, RCA CA 810Q
IC202	36648-000	Voltage Regulator, Fairchild 78L 12WC, Motorola MC 78L12CP
Coils		
L201	30110-000	RF Choke, 100 microhenry
Transformers		
T201	30592-000 32159-000	Intercom Input Mounting Bracket for T201
Heat Sink		
	35253-000	Heat Sink — IC
Lamp		
VR201	39438-000	Neon Indicator Lamp

Schematic Symbol	NuTone Part No.	Description
Plugs and Connectors		
J4, J5	39754-000	Phono Socket
P1	39338-101	Connector Post-5 Pin
P2	39338-102	Connector Post-7 Pin
	39338-103	Connector Post-8 Pin
J3	39333-102	Connector End Block-4 Pin, Blue
	39333-103	Connector End Block-6 Pin, Blue
Y (1-7)	32672-3	Ribbon Cable-7 Conductor
X (1-6)	32672-6	Ribbon Cable-6 Conductor
CONTROL MODULE		
	42096-000	Complete Assembly
	37761-000	Control — PC Board
Capacitors		
C401	35091-103	4.7 mfd @ 25V, Electrolytic
C402	35091-110	.22 mfd @ 16V, Electrolytic
C403, C404	35091-106	2.2 mfd @ 50V, Electrolytic
Diodes		
D401-D406	36617-000	Silicon Switching 50 mA DC 75 PIV — 1N914 or 1N4148
D407	36549-000	Silicon Rectifier 1N4002
D408	36632-000	Zener, 27V, 1N4750
Connectors		
J2	39339-103	Receptacle — 8 pin
J2	39339-105	Receptacle — 3 pin
J2	39339-106	Receptacle — 4 pin
Relays		
K401	39336-000	4PDT, Talk/Listen American Zettler — AZ429-70-200
K402	39337-000	SPST, Reed, Standby New Products Engineering 118-7-2, D4
Resistors		
R401, R411	33082-182	1.8K
R402	33082-392	3.9K
R403, R410	33083-682	6.8K
R404	33082-472	4.7K
R405, R416	33082-103	10K
R406	33082-332	3.3K
R408	33082-102	1K
R409	33082-561	560
R412	33082-124	120K
R414, R417	33082-223	22K
R415	33082-473	47K
R419	33082-560	56
Transistors		
Q401	36509-000	PNP Planar Silicon Darlington, Motorola MPS-A65

REVISED REPLACEMENT PARTS

Schematic Symbol	NuTone Part No.	Description
Q402	36590-000	NPN Planar Silicon Darlington, Motorola MPS-A13
Q403	36613-000	NPN Silicon, Motorola MPS-A20
Q404	36606-000	PNP Silicon, Motorola MPS-A70
INTERCOM SWITCHBOARD ASSEMBLY		
	42035-000	Complete Assembly
	37678-000	PC Board
P3	37604-000	10 Pin Connector
R501, R502	33101-101	100 Ohms ½ Watt
R503, R504	33101-047	4.7 Ohms ½ Watt
S501-S510	34624-000	DP5T Slide Switch — Remote Station Selector
CHASSIS MOUNTED PARTS		
Inside Talk/Listen Switch Assembly		
	42033-000	Complete Assembly
	37676-000	PC Board
S103, S104 (Alternate)	34630-000	Talk/Listen Switch
R104	34627-000	10K Ohm ¼ Watt
	33082-103	
Door Talk/Listen Switch Assembly		
	42583-000	Complete Assembly
	37755-000	PC Board
S105, S106 (Alternate)	34629-000	Talk/Listen Switch
	34626-000	
Volume/Tone Control Assembly		
	42132-000	Complete Assembly
	37691-000	Volume/Tone PC Board
C101	35076-108	.02 mfd 16V Ceramic
R102	34078-000	Potentiometer — 500K Tone
R103	34079-000	Potentiometer — 100K Volume
AM/FM/Phono Mode Switch Assembly		
	42582-000	Complete Assembly
	37754-000	Mode Switch PC Board
S102	34657 000	Switch DP4T
DIAL CORD		
	41535-000	Complete Assembly
	39262-000	Spring, Dial Pointer
	39852-000	Dial Pointer
	41578-000	Dial Backing Assembly
	41691-000	Complete Front Panel IMA-406D
	41692-000	Complete Front Panel IMA-406L

NuTone

Housing Group

Scovill

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