

# REPLACEMENT PARTS

Capacitors: Value In Micro (10<sup>-6</sup>) Farads. Other Specifications As Noted  
 Resistors: Value In Ohms ± 5%, ¼ Watt  
 K=Kilo=1,000 M=Mega=1,000,000

## Model IM-2003 Radio-Intercom Master Unit

Schematic Symbol	NuTone Part No.	Description	Schematic Symbol	NuTone Part No.	Description
<b>AMPLIFIER &amp; POWER SUPPLY BOARD</b>			<b>AMPLIFIER &amp; POWER SUPPLY BOARD</b>		
	6996A-000	Amplifier & Power Supply Board Assembly Complete			
		<b>Diodes</b>			<b>Capacitors</b>
D101	7038A-000	Muting —IN4148, 1SS133, BA317, 1S2473	C103	7167A-000	Ceramic YB 560pf
D102	7038A-000	Muting —IN4148, 1SS133, BA317, 1S2473	C106	7119A-000	Ceramic 470pf
D109	7038A-000	Muting —IN4148, 1SS133, BA317 or 1S2473	C111	7169A-000	Ceramic 0.001uf
D103	7233A-000	Voltage Regulator —UZ13BL or RD13EB2	C113	7166A-000	Ceramic 100pf
D104	7044A-000	Rectifier —ISR35-100, SR1K-2 or GP15B	C135	7176A-000	Ceramic YB 0.0022uf
D105	7044A-000	Rectifier —ISR35-100, SR1K-2 or GP15B	C137	7176A-000	Ceramic YB 0.0022uf
D106	7044A-000	Rectifier —ISR35-100, SR1K-2 or GP15B	C116	7108A-000	Ceramic Z 0.022uf
D107	7044A-000	Rectifier —ISR35-100, SR1K-2 or GP15B	C121	7108A-000	Ceramic Z 0.022uf
		<b>Resistors</b>	C125	7108A-000	Ceramic Z 0.022uf
R101	7225A-000	Carbon Film 1/4W. 680K	C126	7108A-000	Ceramic Z 0.022uf
R102	7219A-000	Carbon Film 5.6K	C127	7108A-000	Ceramic Z 0.022uf
R104	7185A-000	Carbon Film 1M	C128	7108A-000	Ceramic Z 0.022uf
R105	7208A-000	Carbon Film 4.7K	C138	7161A-000	Ceramic SL 330pf
R106	7183A-000	Carbon Film 10K	C101	7124A-000	Electrolytic 0.1uf/50V.
R116	7183A-000	Carbon Film 10K	C105	7124A-000	Electrolytic 0.1uf/50V.
R107	7182A-000	Carbon Film 1K	C107	7124A-000	Electrolytic 0.1uf/50V.
R111	7182A-000	Carbon Film 1K	C102	7153A-000	Electrolytic 0.47uf/50V.
R122	7182A-000	Carbon Film 1K	C104	7138A-000	Electrolytic 47uf/16V.
R108	7226A-000	Carbon Film 150	C118	7138A-000	Electrolytic 47uf/16V.
R109	7213A-000	Carbon Film 6.8K	C136	7138A-000	Electrolytic 47uf/16V.
R110	7184A-000	Carbon Film 100K	C108	7108A-000	Electrolytic 2.2uf/25V.
R128	7184A-000	Carbon Film 100K	C112	7145A-000	Electrolytic 220uf/16V.
R112	7227A-000	Carbon Film 10K	C114	7170A-000	Electrolytic 47uf/6.3V.
R113	7195A-000	Carbon Film 220	C115	7126A-000	Electrolytic 100uf/10V.
R114	7196A-000	Carbon Film 2.2K	C117	7171A-000	Electrolytic 100uf/16V.
K115	7200A-000	Carbon Film 330	C119	7151A-000	Electrolytic 470uf/16V.
R127	7200A-000	Carbon Film 330	C123	7143A-000	Electrolytic 1000uf/16V.
R118	7232A-000	Carbon Film 33	C124	7173A-000	Electrolytic 1000uf/35V.
R124	7228A-000	Carbon Film 560	C132	7175A-000	Electrolytic 10uf/16V.
R125	7181A-000	Carbon Film 100	C134	7175A-000	Electrolytic 10uf/16V.
R126	7181A-000	Carbon Film 100	C120	7172A-000	Mylar 0.15uf/50V.
R121	7230A-000	Carbon Film 1/2W. 68	C130	7174A-000	Ceramic (Stabil) 0.0018uf
R119	7229A-000	Metal 1W. 3.3	C131	7165A-000	Ceramic (Stabil) 0.0022uf
R120	7229A-000	Metal 1W. 3.3			<b>Transistors</b>
R123	7231A-000	Metal 4.7	Q101	7234A-000	Audio Emitter —2SC1844(E), (F) or 2SC2634 (S); (T)
			Q102	7030A-000	Auxiliary Amplifier —2SC945(Q) or 2SC828(Q)
			Q103	7037A-000	Muting —2SC945(P) or 2SC828(R)
			Q104	7037A-000	Muting Driver —2SC945(P) or 2SC828(R)
			Q105	7031A-000	Voltage Stabilizer —2SD882(Q), (P) or 2SC2209(Q), (R)
					<b>Integrated Circuits</b>
			IC101	7015A-000	Power Amp —BA532

Schematic Symbol	NuTone Part No.	Description
<b>AMPLIFIER &amp; POWER SUPPLY BOARD</b>		
<b>Slide Potentiometers</b>		
VR1	7050A-000	Slide Potentiometer 50K
VR3	7093A-000	Slide Potentiometer 200
VR2	7092A-000	Potentiometer 100K
<b>Coils</b>		
L102	7065A-000	Audio Output Choke
L103	7072A-000	Bead Core
<b>Switches</b>		
	7095A-000	Switch & Bracket Assembly—includes: Bracket
S2		Switch—Listen In
S3		Switch—Talk
S4		Switch—Door Speaker—ON/OFF
S5	7055A-000	Switch—Power—ON/OFF
<b>Miscellaneous</b>		
	7099A-000	3P Base Post
J101	7076A-000	Jack—Auxiliary Out
	6978A-000	Heat Sink
<b>TUNER BOARD</b>		
	6997A-000	Tuner Board Assembly—Complete
<b>Diodes</b>		
D1	7038A-000	FM Overload —IN4148, 1SS133, BA317 or IS2473
D2	7039A-000	FM AFC—SD116
D3	7038A-000	AM AGC—IN4148, 1SS133, BA317 or IS2473
D4	7038A-000	Protector Antenna —IN4148, 1SS133, BA317 or IS2473
D5	7038A-000	Protector Antenna —IN4148, 1SS133, BA317 or IS2473
<b>Resistors</b>		
R1	7185A-000	Carbon Film 1M
R12	7185A-000	Carbon Film 1M
R2	7210A-000	Carbon Film 56
R3	7200A-000	Carbon Film 330
R6	7200A-000	Carbon Film 330
R21	7200A-000	Carbon Film 330
R22	7200A-000	Carbon Film 330
R4	7205A-000	Carbon Film 3.9K
R5	7213A-000	Carbon Film 6.8K
R7	7214A-000	Carbon Film 1K
R8	7191A-000	Carbon Film 1.5K
R16	7191A-000	Carbon Film 1.5K
R9	7215A-000	Carbon Film 18K
R10	7196A-000	Carbon Film 2.2K
R30	7196A-000	Carbon Film 2.2K

Schematic Symbol	NuTone Part No.	Description
<b>Resistors</b>		
R11	7217A-000	Carbon Film 330K
R13	7199A-000	Carbon Film 27K
R29	7199A-000	Carbon Film 27K
R14	7216A-000	Carbon Film 22K
R15	7194A-000	Carbon Film 22
R18	7201A-000	Carbon Film 3.3K
R19	7186A-000	Carbon Film 120
R20	7186A-000	Carbon Film 120
R24	7186A-000	Carbon Film 120
R28	7186A-000	Carbon Film 120
R23	7183A-000	Carbon Film 10K
R27	7183A-000	Carbon Film 10K
R25	7222A-000	Carbon Film 82K
R26	7213A-000	Carbon Film 6.8K
R33	7181A-000	Carbon Film 100
<b>Capacitors</b>		
C1	7106A-000	Ceramic SL 10pf
C9	7106A-000	Ceramic SL 10pf
C4	7109A-000	Ceramic SL 5pf
C7	7109A-000	Ceramic SL 5pf
C6	7160A-000	Ceramic SL 18pf
C12	7161A-000	Ceramic SL 330pf
C25	7121A-000	Ceramic SL 3pf
C2	7166A-000	Ceramic YB 100pf
C46	7166A-000	Ceramic YB 100pf
C8	7112A-000	Ceramic YB 470pf
C45	7112A-000	Ceramic YB 470pf
C3	7113A-000	Ceramic M 0.0047uf
C10	7113A-000	Ceramic M 0.0047uf
C22	7120A-000	Ceramic (Stabil) 0.022uf
C23	7120A-000	Ceramic (Stabil) 0.022uf
C40	7120A-000	Ceramic (Stabil) 0.022uf
C43	7131A-000	Ceramic (Stabil) 0.015uf
C44	7165A-000	Ceramic (Stabil) 0.0039uf
C5	7108A-000	Ceramic Z 0.022uf
C11	7108A-000	Ceramic Z 0.022uf
C13	7108A-000	Ceramic Z 0.022uf
C24	7108A-000	Ceramic Z 0.022uf
C28	7108A-000	Ceramic Z 0.022uf
C29	7108A-000	Ceramic Z 0.022uf
C31	7108A-000	Ceramic Z 0.022uf
C36	7108A-000	Ceramic Z 0.022uf
C19	7119A-000	Ceramic Z 0.047uf
C20	7119A-000	Ceramic Z 0.047uf
C26	7119A-000	Ceramic Z 0.047uf
C30	7119A-000	Ceramic Z 0.047uf
C33	7119A-000	Ceramic Z 0.047uf
C14	7115A-000	Ceramic NPO 10pf
C15	7115A-000	Ceramic NPO 10pf
C16	7162A-000	Ceramic NPO 22pf
C18	7118A-000	Ceramic NPO 7pf
C17	7117A-000	Ceramic N330 16pf
C32	7163A-000	Electrolytic 22uf/6.3V.
C34	7164A-000	Electrolytic 100uf/6.3V.
C39	7126A-000	Electrolytic 100uf/10V.
C35	7124A-000	Electrolytic 0.1uf/50V.
C42	7124A-000	Electrolytic 0.1uf/50V.
C37	7125A-000	Electrolytic 1uf/50V.
VC1	7048A-000	Variable

Schematic Symbol	NuTone Part No.	Description
<b>AMPLIFIER &amp; POWER SUPPLY BOARD</b>		
<b>Transistors</b>		
Q1	7025A-000	FM RF Amp. —2SK212(E)
Q2	7026A-000	FM Mixer —2SC1674(L) or 2SC1359(C)
Q3	7026A-000	FM Local Osc. —2SC1674(L) or 2SC1359(B)
Q4	7026A-000	AM Converter —2SC1674(L) or 2SC1359(C)
<b>Integrated Circuits</b>		
IC1	7014A-000	Integrated Circuit — AM/FM IF Amp. HA12413-03
<b>Transformers and Coils</b>		
T1	7059A-000	FM IF 10.7 MHz.
T2	7060A-000	FM Detector
T3	7061A-000	FIRST AM IF 455KHz
T4	7062A-000	SECOND AM IF 455KHz
L1	7064A-000	FM RF
L2	7065A-000	IF Trap
L3	7066A-000	FM Oscillator
L4	7067A-000	RF Trap
L5	7068A-000	AM Antenna
L6	7069A-000	AM Oscillator
<b>Filters</b>		
CF1	7073A-000	FM IF (Ceramic) 10.7 Mhz
CF2	7073A-000	FM IF (Ceramic) 10.7 Mhz
CF3	7074A-000	AM IF (Ceramic) 44.5 Khz
B.F.P.	7075A-000	FM RF (Print) 88-108 Mhz
<b>Pins</b>		
TP1	7104A-000	Antenna Wrapping
TP2	7104A-000	Antenna Wrapping
<b>TERMINAL BOARD</b>		
R201	7000A-000	Terminal Board Assembly — Complete
C202	7219A-000	Resistor — Carbon Film J. 5.6K
C201	7177A-000	Capacitor — Ceramic YB 0.0018uf
T201	7123A-000	Capacitor — Electrolytic 100uf/10V.
L201	7097A-000	Transformer — Intercom Input
	7100A-000	Coil — Series Trap Intercom Input 4P Base Post

Schematic Symbol	NuTone Part No.	Description
<b>AUXILIARY INPUT BOARD</b>		
	6999A-000	Auxiliary Input Board Assembly Complete
R31	7224A-000	Resistor — Carbon Film J. 150K
R32	7223A-000	Resistor — Carbon Film J. 820K
S1	7094A-000	Switch — Program Selector
J1	7076A-000	Jack — Auxiliary Input
	7102A-000	Connector Assembly 3-Cond. Ribbon Cable
	7101A-000	Contact (For 3P Housing)
	7098A-000	3P Housing
<b>POWER LED BOARD</b>		
	6998A-000	Power LED Board Assembly Complete
D108	6979A-000	LED Spacer
	7048A-000	Diode — Power Indicator (LED) LN242RPH
<b>MISCELLANEOUS</b>		
	36090-000	Speaker, 5", 25 Voice Coil
	7103A-000	Cable Tie
	35425-000	Front Cabinet
	35430-000	Dial Scale
	6961A-000	Back Screen
	6962A-000	Pointer
	35426-000	Inlay
	6363A-000	Tuning Knob
	6964A-000	Volume Knob
	6965A-000	Slide Knob
	6966A-000	Pushbutton
	6967A-000	Pushbutton
	6968A-000	Indicator
	6969A-000	Chassis
	6970A-000	Dial Drum
	6971A-000	Tuning Shaft
	6972A-000	Pulley Shaft
	6973A-000	Pulley
	6974A-000	Drum Spring
	6975A-000	Tapping Screw (Pulley)
	6976A-000	Volume Knob Guide (A)
	6977A-000	Volume Knob Guide (B)
	7290A-000	Binding Post
	6980A-000	Band
	6981A-000	Drum Spacer
	7081A-000	PAN. HD. Tap Tite Screw M 2.6 x 5
	7082A-000	HEX HD. Screw M 2.6 x 14
	7083A-000	PAN. HD. Tap Tite Screw M 3 x 5
	7083A-000	PAN. HD. Tap Tite Screw M 3 x 5
	7083A-000	PAN. HD. Tap Tite Screw M 3 x 5
	7084A-000	PAN. HD. Tap Tite Screw M 3 x 8
	7085A-000	PAN. HD. With Washer Screw M3 x 8
	7086A-000	PAN. HD. Tap Tite Screw M 3 x 8
	7086A-000	PAN. HD. Tap Tite Screw M 3 x 8
	7086A-000	PAN. HD. Tap Tite Screw M 3 x 8
	7087A-000	RD. HD. Tapping Screw M 4 x 10
	7088A-000	RD. HD. Tapping Screw M 4 x 16
	7089A-000	Eyelet, $\varnothing$ 2.5 x 3L
	7090A-000	Earth Lug, M3
	7091A-000	PAN. HD. Tapping Screw M 3.5 x 4
	31986-000	Hanger Strap, Master Unit Supt.
	31987-000	"S" — Hook, Hanger Strap

Schematic Symbol	NuTone Part No.	Description
	<b>MISCELLANEOUS</b>	
	35425-000	Front Panel
	35426-000	Inlay
	35429-000	Knob
	35428-000	Knob
	35427-000	Knob
	35430-000	Lens
	49135-000	Instruction Sheet
	49134-000	Homeowner's Manual
	7304A-000	Hardware Bag Assembly Complete
	7305A-000	Hinge
	7306A-000	Hinge Bracket
	7307A-000	Side Bracket
	7308A-000	Tapping Screw M4 x 14
	7309A-000	Screw M3 5 x 20
	7310A-000	Tapping Screw M3 5 x 10
	7311A-000	Tapping Screw M3 5 x 10

### Model IR-102 Rough-In Frame

Schematic Symbol	NuTone Part No.	Description
	42967-005	Frame Assembly
	35313-000	Housing — Transformer
	08502-900	Transformer (Reference: Model 101NA)
	43012-000	F.M. Antenna Assembly — Complete
	49313-000	Antenna Instruction Sheet
	43044-000	Cover Assembly — Transformer
	52789-015	Screw — #6 x 3/8 COMB. PH/SLT. OVAL "25"
	48627-000	Instruction Sheet

### Model IC-201 Indoor Remote Control

Schematic Symbol	NuTone Part No.	Description
R1	35480-000	Remote Control Panel
SW2	42928-000	P.C. Board Assembly Complete
SW1	37798-000	P.C. Board
	34059-000	Potentiometer — Volume Control
	34697-000	Switch — Latching
	34698-000	Switch — Momentary
	32558-W46	Wire Assembly — Blue
	39872-000	Terminal
	39403-000	Terminal
	L2607-015	Screw #8 x 3/8 PH. PAN. HD. "25" (terminal board mounting)
	35474-000	Knob — Switch
	35478-000	Knob — Volume Control
	42899-000	Bag Assembly
	95686-000	Polyethylene 10/5
	52872-000	Screw #8 x 2" PH. FILL. HD. "A" (mounting screws)
	49269-039	Instruction Sheet

### Model IC-201W Outdoor Remote Control

Schematic Symbol	NuTone Part No.	Description
R1	35480-000	Remote Control Panel
SW2	35497-000	Rain Shield
SW1	31967-000	Cable Clamp
	42928-000	P.C. Board Assembly Complete
	37798-000	P.C. Board
	34059-000	Potentiometer — Volume Control
	34697-000	Switch — Latching
	34698-000	Switch — Momentary
	32558-W46	Wire Assembly — Blue
	39872-000	Terminal
	39403-000	Terminal
	L2607-015	Screw #8 x 3/8 PH. PAN. HD. "25" (terminal board mounting)
	35474-000	Knob — Switch
	35478-000	Knob — Volume Control
	42966-000	Envelope Assembly
	66731-039	Envelope
	35351-000	Screw #8 x 3/4 PH. FILL. HD. "25" (mounting screws)
	39890-000	Gasket
	49306-000	Surface Mount Bezel
		Instruction Sheet

### Model IS-205 5" Inside Speaker

Schematic Symbol	NuTone Part No.	Description
R1	35465-000	Remote Speaker Panel
SW2	35492-000	Remote Speaker Panel
SW1	36090-000	Speaker — 5"
	L2607-015	Screw #8 x 3/8 PH. PAN. HD. "25" (speaker mounting)
	42928-000	P.C. Board Assembly Complete
	37798-000	P.C. Board
	34059-000	Potentiometer — Volume Control
	34697-000	Switch — Latching
	34698-000	Switch — Momentary
	32558-W46	Wire Assembly — Blue
	39872-000	Terminal
	39403-000	Terminal
	L2607-015	Screw #8 x 3/8 PH. PAN. HD. "25" (terminal board mounting)
	35473-000	Knob — Switch
	35474-000	Knob — Switch
	35475-000	Knob — Volume Control
	35478-000	Knob — Volume Control
	42930-000	Envelope Assembly (dark finish)
	42931-000	Envelope Assembly (light finish)
	95686-000	Polyethylene 10/5
	52872-068	Screw #8 x 2" PH. FILL. HD. "A" (mounting screws — dark finish)
	52872-068	Screw #8 x 2" PH. FILL. HD. "A" (mounting screws — light finish)
	49249-000	Instruction Sheet

## Model IS-208 8" Inside Speaker

Schematic Symbol	NuTone Part No.	Description
R1 SW2 SW1	35469-000	Remote Speaker Panel
	35470-000	Remote Speaker Panel
	36089-000	Speaker—8"
	L2607-015	Screw #8 x 3/8 PH. PAN. HD. "25"
	42928-000	P.C. Board Assembly
	37798-000	P.C. Board
	34059-000	Potentiometer—Volume Control
	34697-000	Switch—Latching
	34698-000	Switch—Momentary
	32558-W46	Wire Assembly—Blue
	39872-000	Terminal
	39403-000	Terminal
	L2607-015	Screw #8 x 3/8 PH. PAN. HD. "25" (terminal board mounting)
	35473-000	Knob—Switch
	35474-000	Knob—Switch
	35475-000	Knob—Volume Control
	35478-000	Knob—Volume Control
	42932-000	Envelope Assembly (dark finish)
	42933-000	Envelope Assembly (light finish)
	95686-000	Polyethylene 10/5
	39941-068	Screw #8 x 2-1/2 PH. FILL. HD "A" (mounting screws—dark finish)
	39941-039	Screw #8 x 2-1/2 PH. FILL. HD "A" (mounting screws—light finish)
	49251-000	Instruction Sheet

## Model IS-209 5" Patio Speaker with Controls

Schematic Symbol	NuTone Part No.	Description
R1 SW2 SW1	35493-000	Remote Speaker Panel
	36108-000	Speaker 5" (Weatherproof)
	L2607-015	Screw #8 x 3/8 PH. PAN. HD. "25" (speaker mounting)
	35497-000	Rain Shield
	31967-000	Cable Clamp
	42928-000	P.C. Board Assembly Complete
	37798-000	P.C. Board
	34059-000	Potentiometer—Volume Control
	34697-000	Switch—Latching
	34698-000	Switch—Momentary
	32558-W46	Wire Assembly—Blue
	39872-000	Terminal
	39403-000	Terminal
	L2607-015	Screw #8 x 3/8 PH. PAN. HD. "25" (terminal board mounting)
	35474-000	Knob—Switch
	35478-000	Knob—Volume Control
	35496-000	Surface Mount Frame
	42961-039	Envelope Assembly Envelope
	52872-015	Screw #8 x 2" PH. FILL. HD. "25" (mounting screws)
	52807-000	Screw #6 - 32 x 1-1/4 PH. OV. HD. (surface frame mounting)
	35491-000	Gasket
	49276-000	Instruction Sheet