



Model 3103, Complete Schematic Diagram
 Modelo 3103, Diagrama Esquemático Completo

REPLACEMENT PARTS LIST

NOTE: Part numbers identified by an asterisk (*) indicate general replacement items. These numbers may not be identical with those on factory assemblies; also, the electrical values of some replacement items may differ from the values indicated in the schematic diagram and replacement parts list. The values substituted in any case are so chosen that the operation of the radio will be either unchanged or improved. When ordering replacements, use only the "Service Part No."

LISTA DE PIEZAS DE REPUESTO

NOTA: Los números de parte marcados con un asterisco (*) representan renglones generales de repuesto. Estos números no son necesariamente idénticos a los usados en la fabricación original; también, los valores eléctricos de algunos renglones de repuesto pueden diferir de los valores indicados en el diagrama y en la lista de piezas. Los valores substituidos en cualquier caso son escogidos de modo tal que el funcionamiento del radio mejorará o no sufrirá cambio. Al ordenar repuestos, úsese solamente el número indicado en la columna titulada "Service Part No."

Reference Symbol	Description	Service Part No.	Reference Symbol	Description	Service Part No.
C1	Condenser, tuning gang, 2-section	31-2723-2	R5	Resistor, plate load, 22,000 ohms	66-3223340*
C2	Condenser, trimmer assembly, 7-section	31-6414-5	R6	Resistor, a-v-c filter, 2.2 megohms	66-5223340*
C2A	Condenser, trimmer, oscillator (SW4)	Part of C2	R7	Resistor, dropping, 47,000 ohms	66-3474340*
C2B	Condenser, trimmer, oscillator (SW3)	Part of C2	R8	Resistor, diode load, 470,000 ohms	66-4473340*
C2C	Condenser, trimmer, oscillator (SW2)	Part of C2	R9	Resistor, grid return, 10 megohms	66-6103340*
C2D	Condenser, trimmer, oscillator (SW1)	Part of C2	R10	Resistor, a-v-c filter, 470,000 ohms	66-4473340*
C2E	Condenser, trimmer, aerial (BC)	Part of C2	R11	Tone control, 5 megohms (including S1)	33-5538-49
C2F	Condenser, trimmer, aerial (SW2)	Part of C2	R12	Resistor, tone compensation, 68,000 ohms	66-3683340*
C2G	Condenser, trimmer, aerial (SW1)	Part of C2	R13	Volume control, 2 megohms (tap at 1 megohm)	33-3535-20
C3	Condenser, trimmer assembly, 4-section	31-6414-2	R14	Resistor, plate load, 470,000 ohms	66-4473340*
C3A	Condenser, trimmer, aerial (SW3)	Part of C3	R15	Resistor, parasitic suppressor, 6800 ohms	66-2683340*
C3B	Condenser, trimmer, aerial (SW4)	Part of C3	R16	Resistor, bias voltage divider, 470,000 ohms	66-4473340*
C3C	Condenser, padder, oscillator (BC)	Part of C3	R17	Resistor bias voltage divider, 390,000 ohms	66-4393340*
C3D	Condenser, trimmer, oscillator (BC)	Part of C3	R18	Resistor, bias filter, 1 megohm	66-5103340*
C4	Condenser, d-c blocking, 100 mmf.	60-10105407	R19	Resistor, bias, 820 ohms	66-1824340*
C5	Condenser, screen by-pass, .05 mf.	61-0122*	R20	Resistor, bias, 2200 ohms	66-2224340*
C6	Condenser, a-v-c by-pass, .05 mf.	30-1226	R21	Resistor, filter, 820 ohms	66-1825340*
C7	Condenser, d-c blocking, 100 mmf.	60-10105407	R22	Resistor, grid return, 68,000 ohms	66-3683340*
C8	Condenser, fixed padder, 310 mmf.	30-1220-11	S1	Switch, on-off	Part of R11
C9	Condenser, d-c blocking, 270 mmf.	60-10275407	S2	Switch, voltage change-over	42-1569
C10	Condenser, fixed padder, 310 mmf.	30-1220-11	T1	Transformer, power	32-8327
C11	Condenser, fixed padder, 2400 mmf.	60-20245304	T2	Transformer, output	32-8330-1
C12A	Condenser, trimmer, 1st i-f pri.	Part of Z1	T3	Transformer, aerial (BC, SW1, and SW2)	32-4330
C12B	Condenser, trimmer, 1st i-f sec.	Part of Z1	T4	Transformer, aerial (SW3 and SW4)	32-4195
C13A	Condenser, trimmer, 2nd i-f pri.	Part of Z2	T5	Transformer, oscillator (BC, SW1, and SW2)	32-4329
C13B	Condenser, trimmer, 2nd i-f sec.	Part of Z2	T6	Transformer, oscillator (SW3 and SW4)	32-4194
C14	Condenser, bias filter, 1st audio, 220 mmf.	62-122001001	W1	Line cord	L-2183*
C15	Condenser, d-c blocking (phono input), .01 mf.	61-0120*	WS	Switch, band selector	42-1879-1
C16	Condenser, tone compensation, high-cut, .002 mf.	61-0062*	Z1	Transformer, 1st i-f	32-4345
C17	Condenser, bass compensation, 68 mmf.	60-00685407	Z2	Transformer, 2nd i-f	32-4346
C18	Condenser, bass compensation, .006 mf.	45-3500-7*			
C19	Condenser, d-c blocking, .02 mf.	61-0108*			
C20	Condenser, d-c blocking, .003 mf.	30-1226-3			
C21	Condenser, d-c blocking, .006 mf.	30-1226-2			
C22	Condenser, by-pass, 220 mmf.	62-122001001			
C23	Condenser, tone compensation, .004 mf.	61-0179*			
C24	Condenser, bias filter, 2 mf.	45-3500-3			
C25	Condenser, electrolytic, filter, 40 mf.	30-2570-33			
C26	Condenser, electrolytic, 2-section	Part of C26			
C26A	Condenser, filter, 20 mf., 450 v.	Part of C26			
C26B	Condenser, filter, 10 mf., 450 v.	Part of C26			
C27	Condenser, line filter, .01 mf.	30-1226-1			
C28	Condenser, line filter, .01 mf.	30-1226-1			
I1	Pilot lamp	34-2477			
I1	Socket, phono input	27-6126			
LS1	Loud-speaker	36-1629-2			
R1	Resistor, grid return, 1 megohm	66-5103340*			
R2	Resistor, oscillator stabilizing, 220 ohms	66-1223340*			
R3	Resistor, oscillator loading (SW1 and SW2), 1500 ohms	66-2153340*			
R4	Resistor, oscillator return (BC), 4700 ohms	66-2473340*			

MISCELLANEOUS

Description	Service Part No.
Back, cabinet	54-4652
Cabinet	10722A
Feet (4 required)	W-2190
Knob (4 required)	54-4488-2
Pilot-lamp assembly	27-6233
Scale and scale-mounting parts	
Back-plate assembly, scale	76-4360
Drive cord (25-ft. spool)	45-8750*
Pointer	56-5630-7FCP
Scale, dial	54-5042
Scale, regional (diffusing panel)	54-5043
Spring, gang and pointer	56-3084
Spring, scale mounting (4 required)	56-3841
Strap, scale mounting (2 required)	56-4756FE11
Shaft, drive	31-2738-1
Socket, Loktal	27-6138