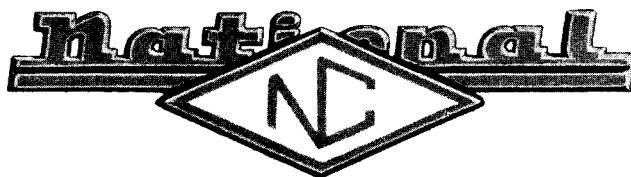


THE NATIONAL MODEL NC-TV 10T TELEVISION RECEIVER



PARTS LIST

Symbol	Description	National Co. Type
CAPACITORS		
C-1	Ceramic, 100 mmf., $\pm 10\%$, 500 vdcw	F913-2
C-2	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-3	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-4	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-5	Ceramic, 1 mmf., $\pm 10\%$, 500 vdcw	L081-4
C-6	Ceramic, 360 mmf., 500 vdcw	K941-1
C-7	Ceramic, 360 mmf., 500 vdcw	K941-1
C-8	Ceramic, 22 mmf., $\pm 10\%$, 500 vdcw	F912-10
C-9	Ceramic, 2 mmf, ± 5 mmf, 500 vdcw	F912-3
C-10	Ceramic, 360 mmf, 500 vdcw	K941-1
C-11	Ceramic, 360 mmf., 500 vdcw	K941-1
C-12	Ceramic, 100 mmf., 500 vdcw	D825D-421
C-13	Ceramic, 25 mmf., $\pm 10\%$, 500 vdcw	F912-11
C-14	Variable, (special)	SA4980
C-15	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-16	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-17	Ceramic, 100 mmf. $\pm 10\%$, 500 vdcw	D825D-421
C-18	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-19	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-20	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-21	Ceramic, 100 mmf., $\pm 10\%$, 500 vdcw	D825D-421
C-22	Paper, .1 mfd., 400 vdcw	D827-11
C-23	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-24	Ceramic, 5000 mmf., 450 vdcw	K946-1

Symbol	Description	National Co. Type
CAPACITORS (Continued)		
C-25	Ceramic, 100 mmf., $\pm 10\%$, 500 vdcw	D825D-421
C-26	Mica, 120 mmf., $\pm 10\%$, 500 vdcw	J665-35
C-27	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-28	Ceramic, 5 mmf., ± 1 mmf., 500 vdcw	D825D-401
C-29	Paper, .01 mfd., 600 vdcw	D827-7
C-30	Paper, .1 mfd., 400 vdcw	D827-11
C-31	Mica, 680 mmf., $\pm 10\%$, 300 vdcw	J665-63
C-32	Mica, 470 mmf., $\pm 10\%$, 500 vdcw	J665-56
C-33	Elect. 10 mfd., 200 vdcw	E338-19
C-34	Ceramic, 22 mmf., $\pm 10\%$, 500 vdcw	K940-3
C-35	Paper, .1 mfd., 400 vdcw	D827-11
C-36	Paper, .1 mfd., 400 vdcw	D827-11
C-37	Ceramic, 47 mmf, ± 5 mmf, 500 vdcw	D825D-428
C-38	Ceramic, 47 mmf, ± 5 mmf, 500 vdcw	D825D-428
C-39	Ceramic, 5000 mmf., 500 vdcw	K946-1
C-40	Paper, .02 mfd., 400 vdcw	D827-43
C-41	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-42	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-43	Ceramic, 10 mmf., ± 1 mmf. 500 vdcw	D825D-402
C-44	Ceramic, 75 mmf. $\pm 10\%$, 500 vdcw	D825C-301
C-45	Mica, 1000 mmf., $\pm 10\%$, 300 vdcw	J665-71
C-46	Paper, 1 mfd., 200 vdcw	D827-41
C-47	Paper, .05 mfd., 600 vdcw	D827-3
C-48	Paper, .01 mfd., 600 vdcw	D827-7

PARTS LIST (Continued)

Symbol	Description	National Co. Type
CAPACITORS (Continued)		
C-49	Paper, .01 mfd., 600 vdcw	D827-7
C-50	Paper, 5000 mmf., 600 vdcw	D827-27
C-51	Paper, .05 mfd., 600 vdcw	D827-3
C-52	Paper, .01 mfd., 600 vdcw	D827-7
C-53	Elect. 40 mfd., 450 vdcw	E338-17
C-54	Elect. 40 mfd., 450 vdcw	E338-17
C-55	Ceramic, 400 mmf., 500 vdcw	K941-2
C-56	Ceramic, 400 mmf., 500 vdcw	K941-2
C-57	Ceramic, 400 mmf., 500 vdcw	K941-2
C-58	Ceramic, .005 mfd., 450 vdcw	K946-1
C-59	Paper, .01 mfd., 600 vdcw	D827-7
C-60	Paper, .01 mfd., 600 vdcw	D827-7
C-61	Elect. 40+40 mfd., 450 vdcw	K945-1
C-61A	Elect. 40 mfd., 450 vdcw	Part of C-61
C-61B	Elect. 40 mfd., 450 vdcw	Part of C-61
C-62	Elect. 500 mfd., 12 vdcw	E338-6
C-63	Elect. 40 mfd., 450 vdcw	E338-17
C-64	Paper, .002 mfd., 600 vdcw	D827-6
C-65	Paper, .005 mfd., 600 vdcw	D827-27
C-66	Paper, .005 mfd., 600 vdcw	D827-27
C-67	Mica, 4700 mmf., $\pm 10\%$, 500 vdcw	J666-40
C-68	Elect. 100 mfd., 25 vdcw	E338-15
C-69	Paper, .25 mfd., 400 vdcw	D827-17
C-70	Paper, .1 mfd., 400 vdcw	D827-11
C-71	Elect. 10+10 mfd., 450 vdcw	L189-1
C-71A	Elect. 10 mfd., 450 vdcw	Part of C-71
C-71B	Elect. 10 mfd., 450 vdcw	Part of C-71
C-72	Mica, 3900 mmf., $\pm 2\%$, 500 vdcw	J819-3
C-73	Paper, .05 mfd., 600 vdcw	D827-3
C-74	Mica, 270 mmf., $\pm 10\%$, 500 vdcw	J665-47
C-75	Mica, 390 mmf., $\pm 10\%$, 500 vdcw	J665-53
C-76	Elect. 20 mfd., 450 vdcw	E338-16
C-77	Mica, 270 mmf., $\pm 10\%$, 500 vdcw	J665-47
C-78	Variable, 70-350 mmf.,	K923-2
C-79	Mica, 39 mmf., $\pm 10\%$, 500 vdcw	J665-17
C-80	Paper, .05 mfd., 600 vdcw	D827-3
C-81	Paper, .25 mfd., 400 vdcw	D827-17
C-82	Paper, .035 mfd., 600 vdcw	D827-46
C-83	Paper, .1 mfd., 600 vdcw	D827-13
C-84	Mica, 18 mmf., $\pm 10\%$, 1500 vdcw	J666-65
C-85	Ceramic, 500 mmf., 10,000 vdcw	K891-2
C-86	Mica, 56 mmf., $\pm 10\%$, 500 vdcw	J665-23
C-87	Paper, .25 mfd., 600 vdcw	D827-19
C-88	Paper, .05 mfd., 600 vdcw	D827-3
C-89	Paper, .01 mfd., 600 vdcw	D827-7
C-90	Paper, .005 mfd., 600 vdcw	D827-27
C-91	Ceramic, 21 mmf., 500 vdcw	D825D-410
C-92	Ceramic, 47 mmf., $\pm 10\%$	J695-1
C-93	Mica, 1000 mmf., $\pm 10\%$, 300 vdcw	J665-71
C-94	Mica, 1000 mmf., $\pm 10\%$, 300 vdcw	J665-71

Symbol	Description	National Co. Type
CAPACITORS (Continued)		
C-95	Paper, .01 mfd., 600 vdcw	D827-7
C-96	Ceramic, 47 mmf. ± 5 mmf., 500 vdcw	D825D-428
C-97	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-98	Ceramic, 5000 mmf., 450 vdcw	K946-1
C-99	Ceramic, 47 mmf. ± 5 mmf. 500 vdcw	D825D-428
C-100	Ceramic, 1 mmf., $\pm 10\%$, 500 vdcw	L081-4
RESISTORS		
R-1	1,000 ohms, $\pm 10\%$, 1/2 watt	J569-25
R-2	1,000,000 ohms, $\pm 10\%$, 1/2 watt	J569-61
R-3	100 ohms, $\pm 10\%$, 1/2 watt	J569-13
R-4	330 ohms, $\pm 10\%$, 1/2 watt	J569-19
R-5	1,000 ohms, $\pm 10\%$, 1/2 watt	J569-25
R-6	1,000,000 ohms, $\pm 10\%$, 1/2 watt	K379-61
R-7	2,200 ohms, $\pm 10\%$, 1 watt	J571-29
R-8	18,000 ohms, $\pm 10\%$, 1/2 watt	J569-40
R-9	10,000 ohms, $\pm 5\%$, 1/2 watt	J569-85
R-10	82 ohms, $\pm 10\%$, 1/2 watt	J569-12
R-11	100 ohms, $\pm 10\%$, 1/2 watt	J569-13
R-12	330 ohms, $\pm 10\%$, 1/2 watt	J569-19
R-13	8,200 ohms, $\pm 5\%$, 1/2 watt	J569-90
R-14	82 ohms, $\pm 10\%$, 1/2 watt	J569-12
R-15	100 ohms, $\pm 10\%$, 1/2 watt	J569-13
R-16	8,200 ohms, $\pm 5\%$, 1/2 watt	J569-90
R-17	82 ohms, $\pm 10\%$, 1/2 watt	J569-12
R-18	100 ohms, $\pm 10\%$, 1/2 watt	J569-13
R-19	1,000,000 ohms, $\pm 10\%$, 1/2 watt	J569-61
R-20	680,000 ohms, $\pm 10\%$, 1/2 watt	J569-59
R-21	47,000 ohms, $\pm 10\%$, 1 watt	J571-45
R-22	8,200 ohms, $\pm 10\%$, 1/2 watt	J569-36
R-23	1,000 ohms, $\pm 10\%$, 1/2 watt	J569-25
R-24	1,000,000 ohms, $\pm 5\%$, 1 watt	K853-3
R-25	120 ohms, $\pm 10\%$, 1/2 watt	J569-14
R-26	1,000,000 ohms, $\pm 5\%$, 1 watt	K853-3
R-27	Var. 1,000 ohms, Tap at 250 ohms	K915-11
R-28	22,000 ohms, $\pm 5\%$, 5 watt	E959-19
R-29	22,000 ohms, $\pm 10\%$, 1 watt	J571-41
R-30	5,600 ohms, $\pm 10\%$, 1 watt	J571-34
R-31	27,000 ohms, $\pm 5\%$, 5 watts	E959-20
R-32	18,000 ohms, $\pm 10\%$, 1 watt	K853-4
R-33	1,000,000 ohms, $\pm 5\%$, 1 watt	K853-3
R-34	2,200 ohms, $\pm 10\%$, 1/2 watt	J569-29
R-35	270,000 ohms, $\pm 10\%$, 1/2 watt	J569-54
R-36	820,000 ohms, $\pm 10\%$, 1/2 watt	J569-60
R-37	47,000 ohms, $\pm 10\%$, 1/2 watt	J569-45
R-38	1,000 ohms, $\pm 10\%$, 1/2 watt	J569-25
R-39	220,000 ohms, $\pm 10\%$, 1/2 watt	J569-53
R-40	Variable, 100,000 ohms, 1 watt	K915-12
R-41	10,000 ohms, $\pm 10\%$, 1/2 watt	J569-37
R-42	1000 ohms, $\pm 10\%$, 1/2 watt	J569-25
R-43	10,000 ohms, $\pm 10\%$, 1/2 watt	J569-37

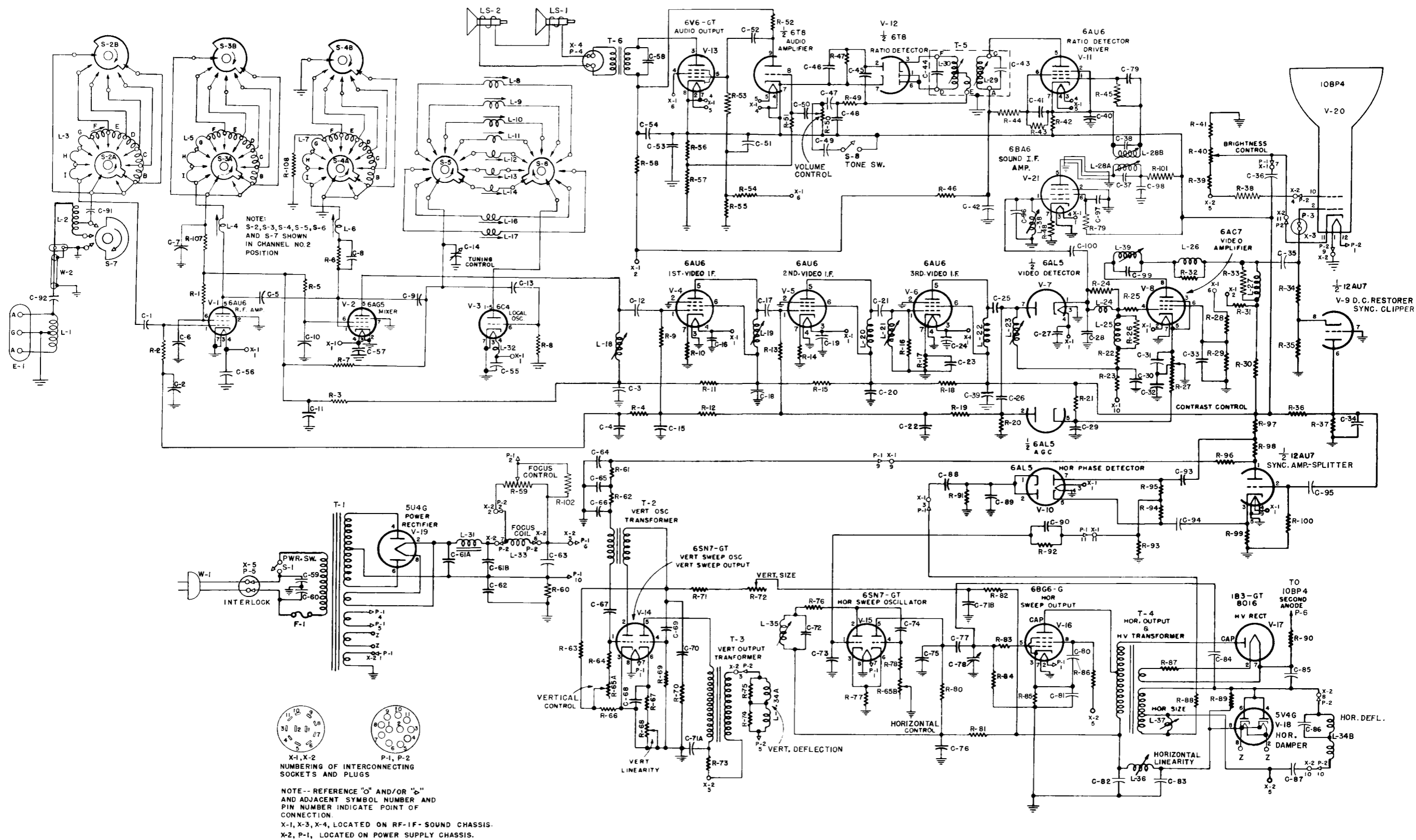
PARTS LIST (Continued).

Symbol	Description	National Co. Type	Symbol	Description	National Co. Type
RESISTORS (Continued)			RESISTORS (Continued)		
R-44	100,000 ohms, $\pm 10\%$, 1/2 watt	J569-49	R-92	470,000 ohms, $\pm 10\%$, 1/2 watt	J569-57
R-45	470,000 ohms, $\pm 10\%$, 1/2 watt	J569-57	R-93	4,700,000 ohms, $\pm 10\%$, 1/2 watt	J569-69
R-46	1000 ohms, $\pm 10\%$, 1/2 watt	J569-25	R-94	100,000 ohms, $\pm 10\%$, 1/2 watt	J569-49
R-47	47,000 ohms, $\pm 10\%$, 1/2 watt	J569-45	R-95	100,000 ohms, $\pm 10\%$, 1/2 watt	J569-49
R-48	82 ohms, $\pm 10\%$, 1/2 watt	J569-12	R-96	22,000 ohms, $\pm 10\%$, 1/2 watt	J569-41
R-49	15,000 ohms, $\pm 10\%$, 1/2 watt	J569-39	R-97	3,900 ohms, $\pm 10\%$, 1/2 watt	J569-32
R-50	Variable, 250,000 ohms	K915-8	R-98	3,900 ohms, $\pm 10\%$, 1/2 watt	J569-32
R-51	470,000 ohms, $\pm 10\%$, 1/2 watt	J569-57	R-99	3,900 ohms, $\pm 10\%$, 1/2 watt	J569-32
R-52	330,000 ohms, $\pm 10\%$, 1/2 watt	J569-55	R-100	1,000,000 ohms, $\pm 10\%$, 1/2 watt	J569-61
R-53	220,000 ohms, $\pm 10\%$, 1/2 watt	J569-53	R-101	1,000 ohms, $\pm 10\%$, 1/2 watt	J569-25
R-54	330,000 ohms, $\pm 5\%$, 1/2 watt	J569-88	R-102	Not used	
R-55	180,000 ohms, $\pm 5\%$, 1/2 watt	J569-89	R-103	Not used	
R-56	4,700 ohms, $\pm 10\%$, 1/2 watt	J569-33	R-104	Not used	
R-57	470,000 ohms, $\pm 10\%$, 1/2 watt	J569-57	R-105	Not used	
R-58	390 ohms, $\pm 10\%$, 1 watt	J571-20	R-106	Not used	
R-59	Var. 1,500 ohms, W.W., 4 watts	L268-1	R-107	1,000 ohms, $\pm 10\%$, 1/2 watt	J569-25
R-60	15 ohms, $\pm 10\%$, 1/2 watt	J569-3	R-108	3,900 ohms, $\pm 10\%$, 1/2 watt	J569-32
R-61	8,200 ohms, $\pm 10\%$, 1/2 watt	J569-36	MISCELLANEOUS		
R-62	8,200 ohms, $\pm 10\%$, 1/2 watt	J569-36	E-1	Terminal Panel, 3 Terminals	E259-3
R-63	6,800,000 ohms, $\pm 10\%$, 1/2 watt	J569-71	E-2	Ion Trap-(Beam Bender)	L260
R-64	1,000,000 ohms, $\pm 10\%$, 1/2 watt	J569-61	E-3	Corona Ring	L279-1
R-65	Dual Variable	L285-1	F-1	Fuse, 3 Amps., 250 volts	F135-9
R-65A	Variable, 1,000,000 ohms	Part of R-65	L-1	Ant. coupling coil, center tapped	SA5448
R-65B	Variable, 50,000 ohms	Part of R-65	L-2	Ant. Coupling coil	L888-1
R-66	100,000 ohms, $\pm 10\%$, 1/2 watt	J569-49	L-3	R.F. Amp. Grid Multi-tapped coil	SA5060-4 SA5456 K908-1
R-67	560 ohms, $\pm 10\%$, 1/2 watt	J569-22	L-4	R.F. Amp. Plate Adjustable Brass-core coil	SA5059-2
R-68	Variable, 5,000 ohms	K915-9	L-5	R.F. Amp. Plate Multi-tapped coil	SA5055 K908-1
R-69	2,200,000 ohms, $\pm 10\%$, 1/2 watt	J569-65	L-6	Mixer Grid Adjustable Brass-core coil	SA5059-1
R-70	3,300 ohms, $\pm 10\%$, 1/2 watt	J569-31	L-7	Mixer Grid multi-tapped coil	SA5060 & K908-1
R-71	1,500,000 ohms, $\pm 10\%$, 1/2 watt	J569-63	L-8	Osc. Tuning, channel 8-9 adjustable iron core coil	SA5054-6
R-72	Variable, 2,500,000 ohms	K915-10	L-9	Osc. Tuning, channel 7, adjustable iron-core coil	SA5054-5
R-73	6,800 ohms, $\pm 10\%$, 1/2 watt	J569-35	L-10	Osc. Tuning, channel 6, adjustable iron-core coil	SA5054-4
R-74	560 ohms, $\pm 10\%$, 1/2 watt	J569-22	L-11	Osc. Tuning, channel 5, adjustable iron-core coil	SA5054-4
R-75	560 ohms, $\pm 10\%$, 1/2 watt	J569-22	L-12	Osc. Tuning, channel 4, adjustable iron-core coil	SA5054-3
R-76	5,600 ohms, $\pm 10\%$, 1/2 watt	J569-34	L-13	Osc. Tuning, channel 3, adjustable iron-core coil	SA5054-2
R-77	1,500 ohms, $\pm 10\%$, 1/2 watt	J569-27	L-14	Osc. tuning, channel 2, adjustable iron-core coil	SA5054-2
R-78	100,000 ohms, $\pm 10\%$, 1/2 watt	J569-49	L-15	Not Used	
R-79	1,000 ohms, $\pm 10\%$, 1/2 watt	J569-25			
R-80	270,000 ohms, $\pm 10\%$, 1/2 watt	J569-54			
R-81	22,000 ohms, $\pm 10\%$, 1/2 watt	J569-41			
R-82	56,000 ohms, $\pm 10\%$, 1/2 watt	J569-46			
R-83	68 ohms, $\pm 10\%$, 1/2 watt	J569-11			
R-84	1,000,000 ohms, $\pm 10\%$, 1/2 watt	J569-61			
R-85	82 ohms, $\pm 10\%$, 1 watt	J571-12			
R-86	(2) 10,000 ohms, $\pm 10\%$, 2 watts	J572-37			
R-87	3.3 ohms, $\pm 10\%$, 1/2 watt W.W.	K097-42			
R-88	4,700 ohms, $\pm 10\%$, 1/2 watt	J569-33			
R-89	(2) 12,000 ohms, $\pm 5\%$, 10 watt	E959-21			
R-90	1,000,000 ohms, $\pm 10\%$, 1/2 watt	J569-61			
R-91	27,000 ohms, $\pm 10\%$, 1/2 watt	J569-42			

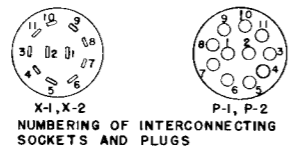
PARTS LIST (Continued)

Symbol	Description	National Co. Type
Miscellaneous (Continued)		
L-16	Osc. Tuning, channel 12-13, adjustable iron-core coil	SA5054-7
L-17	Osc. tuning, channel 10-11, adjustable iron-core coil	SA5054-7
L-18	1st. Video I.F. adjustable iron-core coil	SA5002
L-19	2nd. Video I.F. adjustable iron-core coil	SA5002
L-20	Choke coil	SA5069
L-21	3rd. Video I.F. adjustable coil	SA5002
L-22	Choke coil	SA5069
L-23	Video Detector input adjustable iron-core coil	SA5002
L-24	Video Detector, peaking coil	SA5489
L-25	Video Detector, peaking coil	SA5491
L-26	Video Amplifier peaking coil	SA5493
L-27	Video Amplifier peaking coil	SA5492
L-28	Sound I.F. Transformer	SA5498
L-28A	Adjustable iron-core coil	Part of L-28
L-28B	Adjustable iron-core coil	Part of L-28
L-29	T-5 Secondary adjustable iron- core coil	Part of T-5
L-30	T-5 primary adjustable iron- core coil	Part of T-5
L-31	Filter choke	K927-1
L-32	Filament choke	SA5057
L-33	Focus coil	L252-1
L-34	Deflection yoke	L251-1
L-34A	Vertical Deflection yoke	Part of L-34
L-34B	Horizontal Deflection yoke	Part of L-34
L-35	Horiz. A.F.C. iron-core coil	SA5487
L-36	Horiz. Linearity iron-core coil	L257 1
L-37	Horiz. Size iron-core coil	L256-1
L-38	4.5 mc. sound trap	SA5515
L-39	4.5 mc. sound trap	SA5515
LS-1	Loud-speaker 6"	K892-1
LS-2	Loud-speaker 6"	K892-1
P-1	Eleven Pin plug	L266-1
P-2	Eleven Pin plug	L266-1
P-3	Single Pin Plug	L264-1
P-4	Two Pin Speaker Plug	K294-1
P-5	Part of W-1	
P-6	HV Anode Plug	L-259-1
S-1	On-Off switch, toggle	E230-4
S-2	Antenna coil switch rotary, 2 pole	K900-1
S-2A	Single pole, 10 position	Part of S-2
S-2B	Single pole, 5 position	Part of S-2
S-3	R.F. Amp. Plate coil switch rotary, 2 pole	K900-1

Symbol	Description	National Co. Type
Miscellaneous(continued)		
S-3A	Single pole, 10 position	Part of S-3
S-3B	Single pole, 5 position	Part of S-3
S-4	Mixer Grid coil switch rotary, 2 pole	K900-1
S-4A	Single pole, 10 position	Part of S-4
S-4B	Single pole, 5 position	Part of S-4
S-5	Oscillator coil switch, rotary switch S.P. 9 position	K889-1
S-6	Oscillator coil switch, rotary switch S.P. 9 position	K889-1
S-7	Antenna Coupling Switch, Rotary Switch	K888-1
S-8	Tone Switch	E230-4
T-1	Power Transformer	L275-1
T-2	Vertical Osc. Transformer	L254-1
T-3	Vertical Output Transformer	L253-1
T-4	Horiz. Output-High Voltage Trans.	L255-1
T-5	Discriminator Transformer	SA4997
T-6	Audio Output Transformer	E450-1
V-1	R.F. Amplifier	6AU6
V-2	Mixer,	6AG5
V-3	Local Osc.	6C4
V-4	1st. Video I.F. Amp.	6AU6
V-5	2nd. Video I.F. Amp.	6AU6
V-6	3rd. Video I.F. Amp.	6AU6
V-7	Video Det.-A.G.C. Diode	6AL5
V-8	Video Amp.	6AC7
V-9	D.C. Restorer, Sync Clipper— Sync. Amp. Splitter	12AU7
V-10	Horizontal Phase Det.	6AL5
V-11	Ratio Detector Driver	6AU6
V-12	Ratio Det— Audio Amp.	6T8
V-13	Audio Output	6V6GT
V-14	Vert. Sweep Osc.—Vert. Sweep Amp.	6SN7GT
V-15	Horizontal Sweep Osc.	6SN7GT
V-16	Horizontal Sweep Output	6BG6G
V-17	High Voltage Rectifier	1B3-GT 8016
V-18	Horizontal Damper	5V4G
V-19	Power Rectifier	5U4G
V-20	Kinescope	10BP4
V-21	Sound I.F. Amplifier	6BA6
W-1	A.C. Line cord with two plugs	L284-1
W-2	Coaxial Cable, 14 1/2" long type RG-59U	SA5458
X-1	11 Pin Socket	L267-1
X-2	11 Pin Socket	L267-1
X-3	Single Pin Socket	L265-1
X-4	Two Pin Socket	K293-1
X-5	Two Pin Socket	L283-1



NOTE: S-2, S-3, S-4, S-5, S-6 AND S-7 SHOWN IN CHANNEL NO. 2 POSITION



NOTE-- REFERENCE "O" AND/OR "S" AND ADJACENT SYMBOL NUMBER AND PIN NUMBER INDICATE POINT OF CONNECTION.
 X-1, X-3, X-4, LOCATED ON RF-IF- SOUND CHASSIS.
 X-2, P-1, LOCATED ON POWER SUPPLY CHASSIS.

Figure No. 16. Schematic Diagram of NC-TV 10 Receiver