

ELECTRONIC ASSEMBLY PARTS LIST
MODEL 351 AND 351-2
CATALOG NUMBER 30750-01 thru -08

REF. NO. PART DESCRIPTION AMPEX PART NO.

351 SERIES COMPLETE EQUIPMENT

Rack Mount, 7-1/2 - 15 ips, Full Track, 60 Cycle Power	30700-01
Rack Mount, 7-1/2 - 15 ips, Full Track, 50 Cycle Power	30700-02
Rack Mount, 7-1/2 - 15 ips, Half Track, 60 Cycle Power	30700-07
Rack Mount, 7-1/2 - 15 ips, Half Track, 50 Cycle Power	30700-08
Rack Mount, 3-3/4 - 7-1/2 ips, Full Track, 60 Cycle Power	30700-13
Rack Mount, 3-3/4 - 7-1/2 ips, Full Track, 50 Cycle Power	30700-14
Rack Mount, 3-3/4 - 7-1/2 ips, Half Track, 60 Cycle Power	30700-19
Rack Mount, 3-3/4 - 7-1/2 ips, Half Track, 50 Cycle Power	30700-20
Console, 7-1/2 - 15 ips, Full Track, 60 Cycle Power	30700-03
Console, 7-1/2 - 15 ips, Full Track, 50 Cycle Power	30700-04
Console, 7-1/2 - 15 ips, Half Track, 60 Cycle Power	30700-09
Console, 7-1/2 - 15 ips, Half Track, 50 Cycle Power	30700-10
Console, 3-3/4 - 7-1/2 ips, Full Track, 60 Cycle Power	30700-15
Console, 3-3/4 - 7-1/2 ips, Full Track, 50 Cycle Power	30700-16
Console, 3-3/4 - 7-1/2 ips, Half Track, 60 Cycle Power	30700-21
Console, 3-3/4 - 7-1/2 ips, Half Track, 50 Cycle Power	30700-22
2 Case Portable, 7-1/2 - 15 ips, Full Track, 60 Cycle Power	30700-05
2 Case Portable, 7-1/2 - 15 ips, Full Track, 50 Cycle Power	30700-06
2 Case Portable, 7-1/2 - 15 ips, Half Track, 60 Cycle Power	30700-11
2 Case Portable, 7-1/2 - 15 ips, Half Track, 50 Cycle Power	30700-12
2 Case Portable, 3-3/4 - 7-1/2 ips, Full Track, 60 Cycle Power	30700-17
2 Case Portable, 3-3/4 - 7-1/2 ips, Full Track, 50 Cycle Power	30700-18
2 Case Portable, 3-3/4 - 7-1/2 ips, Half Track, 60 Cycle Power	30700-23
2 Case Portable, 3-3/4 - 7-1/2 ips, Half Track, 50 Cycle Power	30700-24

351-2 EQUIPMENT

Rack Mount, 7-1/2 - 15 ips, 60 Cycle Power	30810-01
Rack Mount, 7-1/2 - 15 ips, 50 Cycle Power	30810-02
Rack Mount, 3-3/4 - 7-1/2 ips, 60 Cycle Power	30810-05
Rack Mount, 3-3/4 - 7-1/2 ips, 50 Cycle Power	30810-06
2 Case Portable, 7-1/2 - 15 ips, 60 Cycle Power	30810-03
2 Case Portable, 7-1/2 - 15 ips, 50 Cycle Power	30810-04
2 Case Portable, 3-3/4 - 7-1/2 ips, 60 Cycle Power	30810-07
2 Case Portable, 3-3/4 - 7-1/2 ips, 50 Cycle Power	30810-08

The prefix number of the following component reference symbols designates physical location (see LEGEND) on the schematic diagram).

REF. NO.	PART DESCRIPTION	AMPEX PART NO.
1C1	CAPACITOR, fixed: paper, .15 uf \pm 20%, 400 vdcw; Cornell Dublier Part No. BC4P15 \pm 20%	035-205
1C2	CAPACITOR: electrolytic -- 10 uf, 450 volt; 20 uf, 450 volt; 10 uf, 350 volt --	30770-01
1C3	CAPACITOR, fixe ceramic, .02 uf +80% -20%, 500 vdcw; Sprague Part No. 36C205	030-059
1C4	Same as C3	
1C5	Same as C3	
1C6	CAPACITOR, fixed: paper, .0047 uf \pm 5%, 400 vdcw; Cornell Dublier Part No. ST4D47 <u>Used in 7-1/2 - 15 ips Equipment</u>	035-026
1C6	CAPACITOR, fixed: paper, .0027 uf \pm 5%, 400 vdcw; Sprague Part No. 109P27254 <u>Used in 3-3/4 - 7-1/2 ips Equipment</u>	035-238
1C7	CAPACITOR, fixed: paper, .0012 uf \pm 5%, 400 vdcw; Sprague Part No. 109P12254 <u>Used in 7-1/2 - 15 ips Equipment</u>	035-203
1C7	Same as C6 (.0047) <u>Used in 3-3/4 - 7-1/2 ips Equipment</u>	
1C8	CAPACITOR, fixed: paper, .02 uf \pm 5%, 400 vdcw; Cornell Dublier Part No. Type PJ	035-020
1C9	Same as C3	
1C10	CAPACITOR, fixed: paper, .47 uf \pm 50%, 400 vdcw; Cornell Dublier Part No. BC4P47 \pm 20%	035-206
1C11	Same as C6 (.0047) <u>Used in 7-1/2 - 15 ips Equipment</u>	
1C11	CAPACITOR, fixed: paper, .0082 uf \pm 5%, 200 vdcw; Cornell Dublier Part No. 109P <u>Used in 3-3/4 - 7-1/2 ips Equipment</u>	035-030
1C12	CAPACITOR, fixed: paper, .0022 uf \pm 5%, 400 vdcw; Sprague Part No. 109P22254 <u>Used in 7-1/2 - 15 ips Equipment</u>	035-204
1C12	Same as C6 (.0047) <u>Used in 3-3/4 - 7-1/2 ips Equipment</u>	
5C13	CAPACITOR, variable: mica, 15-130 uuf, 175 vdcw; El Menco Part No. 302 (type 30)	038-002
2C14	Same as C3	
2C15	CAPACITOR, fixed: mica, 750 uuf \pm 5%, 500 vdcw; El Menco Part No. CM20C751J	034-144
3C16	CAPACITOR: electrolytic -- 15 uf, 350 volt; 15 uf, 350 volt; 75 uf, 450 volt; 20 uf, 450 volt--	30769-02
2C17	CAPACITOR, fixed: paper, .1 uf \pm 20%, 400 vdcw; CDST4P1(20%)	035-069
2C18	Same as C3	
2C19	Same as C3	
2C20	CAPACITOR, fixed: ceramic, 150 uuf, \pm 20%, 500 vdcw; Sprague Part No. 40C218	030-046
2C21	Same as C3	
2C22	CAPACITOR, fixed: ceramic, .05 uf +80% -20%, 500 vdcw; Sprague Part No. 5HK-S5	030-031
4C23	CAPACITOR, fixed: ceramic, 2 x .001 uf, 500 vdcw; Erie Part No. 812-001	030-004
5C24	CAPACITOR, fixed: ceramic, .0047 uf, \pm 2%, 500 vdcw; JAN-C 20A: CC36CH470G	035-028
5C25	Same as C24	
3C26	CAPACITOR, fixed: electrolytic, 20 uf, 450 vdcw; Cornell Dublier Part No. BR10422	031-144
3C27	Same as C3	
9C28	CAPACITOR: electrolytic, 4000 uf, 15 volt	30769-01

REF. NO.	PART DESCRIPTION	AMPEX PART NO.
3C29	CAPACITOR, fixed: ceramic, .01 uf, \pm 20%, 1000 vdcw; Spargue Part No. 33C35A	030-045
3C30	Same as C29	
1C31	Same as C3	
5C32	CAPACITOR, fixed: mica, 910 uuf, \pm 5%, 500 vdcw; Cornell Dublier Part No. 5A5T91	034-145
5C33	CAPACITOR, variable: mica, 100-550 uuf, 175 vdcw; El Menco Part No. 304 Type 30	038-009
1C34	CAPACITOR, fixed: mica, 350 uuf, \pm 5%, 500 vdcw; Cornell Dublier Part No. 5A5T35	034-146
1C35	Same as C34	
1C36	CAPACITOR, fixed: mica, .001 uf \pm 5%, 500 vdcw Cornell Dublier Part No. 5AT535	034-147
4C37	CAPACITOR, fixed: ceramic, .01 uf, 500 vdcw; Erie Part No. 811-.01	030-002
5C38	CAPACITOR, electrolytic: 10 uf, 150 vdcw; Cornell Dublier Part No. BBR-10-150	031-157
5C39	CAPACITOR, fixed: mica, 33 uuf, 500 vdcw; 5%; Cornell Dublier Part No. 22A5233	034-168
6CR1	RECTIFIER, selenium: single phase, center tap, 26 volt ac rms max. in -- 1.26 amp dc max. out; General Electric Part No. 6RS5WH5	581-001
5F1	FUSE: 1/2 amp, 250 volt, slow blow; Littlefuse Part No. 313.500	070-026
5F2	FUSE: 3 amp, 250 volt, fast blow; Littlefuse Part No. 312003 <u>Master only</u>	070-001
4I1	POST LIGHT: 1/4 watt neon without internal resistor; Drake Mfg. Part No. 105	132-003
5J1	CONNECTOR, receptacle: female, 3 contact; Cannon Part No. XL-3-13	146-007
5J2	CONNECTOR, receptacle: male, 2 contact; AN3102A-10SL-4P	143-009
5J3	CONNECTOR, receptacle: male, 3 contact; AN3102A-10S-3P	143-008
5J4	PHONE JACK, open circuit type, 2 conductor; Switchcraft Part No. 11	148-015
5J5	CONNECTOR, receptacle: male, 3 contact; Cannon Part No. XL-3-14	147-004
4J6	Same as J4	
5J7	CONNECTOR, receptacle: female, 6 contact; Jones Part No. S-306-AB <u>Master only</u>	146-004
5J7	CONNECTOR, receptacle: male, 6 contact; Jones Part No. P-306-AB <u>Slave only</u>	147-011
5J8	CONNECTOR, receptacle: male, 2 contact; Hubbel Part No. 7466 <u>Master only</u>	147-013
5J9	CONNECTOR, receptacle: female, 1 contact; Amphenol Part No. 83-1R	146-067
5J10	CONNECTOR, receptacle: male, 1 contact; AN3102A-10S-2P	143-010
3K1	RELAY, record: 115v dc	30763-01

REF. NO. PART DESCRIPTION AMPEX PART NO.

1L1	CHOKE, rf: 20 mh, 125 ma	30767-01
4M1	METER, vu: frosted lamps 6.3 volt, .3 amp	30667-01
4R1	RESISTOR, fixed: composition, .15 meg, 1/2 watt; MIL-R-11A, RC20GF154K	041-074
4R2	RESISTOR, fixed: carbon, 100 ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF101K	041-038
4R3	Same as R2	
4R4	RESISTOR, fixed: carbon, 33K ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF333K	041-066
4R5	RESISTOR, fixed: carbon, .12 meg, 1/2 watt, 10%; MIL-R-11A, RC20GF124K	041-073
1R6	RESISTOR, fixed: film, .1 meg \pm 1%, 1/2 watt; Electra Part No. Type DC-1/2	042-092
1R7	RESISTOR, fixed: film, 2700 ohm, 1/2 watt, 10%; MIL-R-10509A, RN15R2701F	042-123
1R8	RESISTOR, fixed: composition, 1 meg, 1/2 watt; MIL-R-11A, RC20GF105K	041-031
4R9	RESISTOR, variable: composition, .1 meg, 2 watts; Allen Bradley Part No. JA1041	044-015
1R10	RESISTOR, fixed: composition, .1 meg, 1/2 watt; MIL-R-11A, RC20GF104K	041-072
1R11	RESISTOR, fixed: carbon, 4700 ohm, 1/2 watt, 10% MIL-R-11A, RC20GF472K	041-056
4R12	RESISTOR, variable: carbon, .25 meg, 1/4 watt, 20%; Chicago Telephone Supply Part No. type PM-45	044-179
1R13	RESISTOR, fixed: carbon, 27K ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF273K	041-065
1R14	RESISTOR, fixed: composition, .33 meg, 1/2 watt; MIL-R-11A, RC20GF334K	041-078
1R15	Same as R8	
1R16	RESISTOR, fixed: composition, 1500 ohm, 1/2 watt; MIL-R-11A, RC20GF152K	041-050
1R17	RESISTOR, fixed: carbon, 22K ohm, 1/2 watt, 5%; MIL-R-11A, RC20GF223J	041-016
1R18	RESISTOR, fixed: carbon, .12 meg, 1/2 watt, 5%; MIL-R-11A, RC20GF124J	041-318
1R19	RESISTOR, fixed: carbon, 22K ohm, 1 watt, 10%; MIL-R-11A, RC32GF223K124J	041-162
1R20	Same as R8	
1R21	RESISTOR, fixed: carbon, 220 ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF221K	041-040
1R22	RESISTOR, fixed: carbon, 2700 ohm, 1/2 watt, 5%; MIL-R-11A, RC20GF272J	041-278
1R23	RESISTOR, fixed: carbon, 8200 ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF822K	041-059
5R24	RESISTOR, variable: wirewound, 500 ohm, 2 watts, 20%; Claro Part No. 39-500	044-178
2R25	RESISTOR, fixed: carbon, .33 meg, 1/4 watt, 10%; Allen Bradley Part No. Type CB	041-325
2R26	RESISTOR, fixed: carbon, .47 meg, 1/2 watt, 10%; MIL-R-11A, RC20GF474K	041-080
2R27	RESISTOR, fixed: film, .33 meg \pm 1%, 1/2 watt; Electra Part No. Type DC-1/2	042-100
2R28	RESISTOR, fixed: film: 1500 ohm, 1/2 watt, 1%; Electra Part No. DC-1/2	042-076
2R29	RESISTOR, fixed: film, 10 meg, 1/2 watt, 10%; MIL-R-11 RC20GF106K	041-090

REF. NO.	PART DESCRIPTION	AMPEX PART NO.
2R30	RESISTOR, fixed: carbon, .30 meg, 1/2 watt, 5%; MIL-R-11A, RC20GF304J 3-3/4 - 7-1/2 ips Equipment	041-326
2R31	RESISTOR, fixed: film, 68K ohm, 1/2 watt, 1%; Electra Part No. Type DC-1/2	042-088
3R32	RESISTOR, fixed: carbon, 39K ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF393K	041-067
2R33	Same as R29	
2R34	RESISTOR, fixed: carbon, .22 meg, 1/2 watt, 10%; MIL-R-11A, RC20GF224K	041-076
3R35	Same as R13	
4R36	RESISTOR, variable: carbon, .25 meg, 2 watts, 10%; Allen Bradley Part No. CA2541, SD3056	044-128
2R37	Same as R8	
2R38	Same as R16	
2R39	Same as R8	
2R40	RESISTOR, fixed: carbon, 82K ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF823K	041-071
2R41	Same as R16	
2R42	Same as R34	
2R43	Same as R34	
2R44	Same as R8	
2R45	Same as R8	
2R46	RESISTOR, fixed: carbon, 1K ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF102K	041-048
2R47	Same as R13	
5R48	RESISTOR, fixed: carbon, 560 ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF561K	041-045
2R49	Same as R32	
6R50	RESISTOR, fixed: carbon, 1.5K ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF152K	041-050
6R51	RESISTOR, fixed: carbon, 4.7K ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF472J	041-013
6R52	RESISTOR, fixed: carbon, 8.2K ohm, 1/2 watt, 5%; MIL-R-11A, RC20GF822J	041-309
6R53	RESISTOR, fixed: carbon, 820 ohm, 1/2 watt, 5%; MIL-R-11A, RC20GF821J	041-317
3R54	RESISTOR, fixed: carbon, 1.5K ohm, 1 watt, 10%; MIL-R-11A, RC32GF152K	041-148
3R55	Same as R54	
3R56	Same as R2	
3R57	Same as R2	
3R58	RESISTOR, fixed: carbon, 15K ohm, 1/2 watt, 10%; MIL-R-11A, RC20GF153K	041-062
1R59	RESISTOR, fixed: carbon, 1.5K ohm, 2 watts, 10%; MIL-R-11A, RC42GF152K	041-204
3R60	RESISTOR, fixed: wirewound, 1.5 ohm, 1 watt, 10%; IRC Type BW-1	043-286
1R61	Same as R11	
1R62	Same as R11	
1R63	RESISTOR, variable: carbon, 10K ohm, 044-171, 1/4 watt, 30%; Chicago Telephone Supply Part No. UPM-45 SPEC3471	044-171
1R64	RESISTOR, fixed: carbon, 8.2 ohm, 1 watt, 5%; MIL-R-11A, RC32GF825J	041-319
1R65	Same as R34	041-076
4S1	SWITCH, rotary: INPUT TRANSFER, 3 position	30760-01
4S2	SWITCH, rotary: EQUALIZATION, 2 position	30761-01

REF. NO.	PART DESCRIPTION	AMPEX PART NO.
4S3	SWITCH, rotary: METER AND OUTPUT, 4 position	30762-01
5S4	SWITCH, rotary: LINE TERM, 3P4T; Oak Part No. 59016-23	122-016
4S5	SWITCH, toggle: POWER, SPST; Carling Part No. 110-B-73	120-005
4S6	SWITCH, rotary: RECORD, pushbutton SPST, normally open; Arrow H and H Part No. 3391BSA	120-013
6T1	TRANSFORMER, microphone input	17331-01
5T2	TRANSFORMER, input Low impedance Heads Only	6299
6T3	TRANSFORMER, output	30633-01
6T4	TRANSFORMER, power	30634-01
1T5	TRANSFORMER, oscillator	30766-01
1V1	TUBE, electron: 12AX7	012-105
1V2	TUBE, electron: 12AT7	012-034
2V3	Same as V1	
2V4	Same as V1	
2V5	TUBE, electron: 12AU7	012-107
1V6	Same as V5	
3V7	TUBE, electron: 6X4	012-050
	*BOARD ASSEMBLY, power supply	30754-01
	*BOARD ASSEMBLY, record: 3-3/4 - 7-1/2 ips	30755-02
	*BOARD ASSEMBLY, record: 7-1/2 - 15 ips	30755-01
	*BOARD ASSEMBLY, reproduce: 3-3/4 - 7-1/2 ips	30756-02
	*BOARD ASSEMBLY, reproduce: 7-1/2 - 15 ips	30756-01
	FACING PANEL	5711-2
	HARNESS ASSEMBLY, master	30819-01
	HARNESS ASSEMBLY, slave	30819-02
	KNOB, large, skirted: Reproduce and Record Level Control	230-004
	KNOB, small, skirted: Equalization and Output	230-003
	KNOB, small with pointer: Input and Line Termination	230-008
	POST, fuse; F1 and F2	085-001
	SHIELD, tube, for all except V7	160-012
	SHIELD, tube; V7	160-043
	SHOCKMOUNT	350-015
	SOCKET, tube: 7 pin	150-067
	SOCKET, tube: 9 pin	30818-01

When ordering replacement parts always include the following information: Equipment Type; Equipment Serial Number; Ampex Part or Catalog Number; and Description of Part. DO NOT simply use the schematic reference number.