

ELECTRONIC ASSEMBLY PARTS LIST
MODEL 351 AND 351-2
CATALOG NUMBER 30960-01 thru -04

| REF. NO. | PART DESCRIPTION | AMPEX PART NO. |
|--|---|----------------|
| 1C1 | CAPACITOR, tubular: paper, .15 uf $\pm 20\%$, 400 vdcw; Sprague Part No. 89D15404 | 035-205 |
| 1C2 | CAPACITOR, electrolytic -- 10 uf, 450 volt; 20 uf, 450 volt; 10 uf, 350 volt -- | 30770-01 |
| 1C3 | CAPACITOR, fixed: ceramic, .02 uf $+80\%$ -20%, 500 vdcw; Sprague Part No. 36C205 | 030-059 |
| 1C4 | Same as 1C3 | 030-059 |
| 1C5 | Same as 1C3 | 030-059 |
| 1C7 (7 $\frac{1}{2}$ -15) | CAPACITOR, variable: ceramic, 7-45 uuf, 500 vdcw; MIL-C-81A: CV11D4-50 | 038-009 |
| 1C7 (3 $\frac{3}{4}$ -7 $\frac{1}{2}$) | CAPACITOR, variable: mica, 550-1600 uuf, 250 vdcw; El Menco Part No. 309 | 038-015 |
| 1C8 | CAPACITOR, tubular: paper, .020 uf, 5%, 400 vdcw; Sprague Part No. 89P20354 | 035-267 |
| 1C9 | Same as 1C3 | 030-059 |
| 1C10 | CAPACITOR, fixed: paper, .47 uf $\pm 20\%$, 400 vdcw; Cornell Dubilier Part No. BC4P47 $\pm 20\%$ | 035-206 |
| 5C13 | CAPACITOR, variable: mica, 15-130 uuf, 175 vdcw; El Menco Part No. 302 (type 30) | 038-002 |
| 2C14 | Same as 1C3 | 030-059 |
| 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, tubular: paper, .15 uf, 20%, 400 vdcw; Sprague Part No. 89D15404 | 035-205 |
| 2C18 | Same as 1C3 | 030-059 |
| 2C19 | Same as 1C3 | 030-059 |
| 2C20 | CAPACITOR, fixed: ceramic, 150 uuf, $\pm 20\%$, 500 vdcw; Sprague Part No. 40C218 | 030-046 |
| 2C21 | Same as 1C3 | 030-059 |
| 2C22 | CAPACITOR, ceramic: .1 mfd $+80$ -20%, 50 vdcw; Sprague Part No. 33C41 | 030-063 |

| REF. NO. | PART DESCRIPTION | AMPEX PART NO. |
|---|--|----------------|
| 4C23 | CAPACITOR, fixed: ceramic, 2 x .001 uf, 500 vdcw; Erie Part No. 812-.001 | 030-004 |
| 5C24 | CAPACITOR, fixed: ceramic, .0047 uf, ±2%, 500 vdcw; JAN-C 20A: CC36CH470G | 035-028 |
| 5C25 | Same as 5C24 | 035-028 |
| 3C26 | CAPACITOR, fixed: electrolytic, 20 uf, 450 vdcw; Cornell Dubilier Part No. BR10422 | 031-144 |
| 3C27 | Same as 1C3 | 030-059 |
| 3C28 | CAPACITOR: electrolytic, 4000 uf, 15 volt | 30769-01 |
| 3C29 | CAPACITOR, fixed: ceramic, .01 uf, ±20%, 1000 vdcw; Sprague Part No. 33C35A | 030-045 |
| 3C30 | Same as 3C29 | 030-045 |
| 5C32 | CAPACITOR, mica: .00035 uf, 1%, 500 vdcw; Cornell Dubilier Part No. 5A5T35 | 034-169 |
| 5C33 | CAPACITOR, variable: mica, 100-550 uuf, 175vdcw; El Menco Part No. 304 (type 30) | 038-009 |
| 1C34 (slave only) | CAPACITOR, mica: .00091 uf, 5%, 500 vdcw; Cornell Dubilier Part No. 5A5T91 | 034-145 |
| 1C35 | Same as 5C32 | 034-169 |
| 1C36 | CAPACITOR, fixed: mica, .001 uf ±5%, 500 vdcw; Cornell Dubilier Part No. 5AT535 | 034-147 |
| 4C37 | CAPACITOR, fixed: ceramic, .01 uf, 500 vdcw; Erie Part No. 811-.01 | 030-002 |
| 5C39 | CAPACITOR, fixed: mica, 33 uuf, 500 vdcw; 5%; Cornell Dubilier Part No. 22A5233 | 034-168 |
| 4C43 (slave only) | CAPACITOR, electrolytic: 10 uf, 150 vdcw; Cornell Dubilier Part No. BBR-10-150 | 031-157 |
| 1C46 (3 $\frac{3}{4}$ -7 $\frac{1}{2}$) | CAPACITOR, variable: mica, 780-2110 uuf, 250 vdcw; El Menco Part No. 311 | 038-026 |
| 1C46 (7 $\frac{1}{2}$ -15) | CAPACITOR, variable: mica, 550-1600 uuf, 250 vdcw; El Menco Part No. 309 | 038-015 |
| 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 |
| 4CR2 | RECTIFIER, selenium: single phase, halfwave, 90 volt ac rms max. in -- .025 amp dc max. out; General Electric Part No. 6RS20PH4RAD1 | 582-031 |

| REF. NO. | PART DESCRIPTION | AMPEX PART NO. |
|----------|---|----------------|
| 5F1 | FUSE: $\frac{1}{2}$ 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 5J4 | 148-015 |
| 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, $\frac{1}{2}$ amp max. out | 30763-01 |
| 4K3 | RELAY, bias coupling: 115V dc, NA, DPST; Comar Part No. C6605 | 020-066 |
| 4M1 | METER, vu: frosted lamps 6.3 volt, .3 amp | 30667-01 |
| 4R1 | RESISTOR, fixed: carbon, .1 meg ohm, 10%, $\frac{1}{2}$ watt MIL-R-11-RC20GF104K | 041-072 |
| 4R2 | RESISTOR, fixed: carbon, 100 ohm, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF101K | 041-038 |
| 4R3 | Same as 4R2 | 041-038 |
| 4R4 | RESISTOR, fixed: carbon, 20K ohms, 5%, $\frac{1}{2}$ watt; MIL-R-11: RC20GF202J | 041-356 |

| REF. NO. | PART DESCRIPTION | AMPEX PART NO. |
|----------|--|----------------|
| 4R5 | RESISTOR, fixed: carbon, 82K ohms, 10%, $\frac{1}{2}$ watt; MIL-R-11: RC20GF823K | 041-071 |
| 1R6 | RESISTOR, fixed: film, .1 meg $\pm 1\%$, $\frac{1}{2}$ watt; Electra Part No. Type DC- $\frac{1}{2}$ | 042-092 |
| 1R7 | RESISTOR, fixed: film, 2700 ohms, $\frac{1}{2}$ watt, 10%; MIL-R-10509A, RN15R2701F | 042-123 |
| 1R8 | RESISTOR, fixed: composition, 1 meg, $\frac{1}{2}$ 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, $\frac{1}{2}$ watt; MIL-R-11A, RC20GF104K | 041-072 |
| 1R11 | RESISTOR, fixed: carbon, 3.3K ohms, 10%, $\frac{1}{2}$ watt; MIL-R-11: RC20GF332K | 041-054 |
| 4R12 | RESISTOR, variable: carbon, .25 meg, 1/4 watt, 20%; Chicago Telephone Supply Type PM-45 | 044-179 |
| 1R13 | RESISTOR, fixed: carbon, 27K ohms, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF273K | 041-065 |
| 1R14 | RESISTOR, fixed: composition, .33 meg, $\frac{1}{2}$ watt; MIL-R-11A, RC20GF334K | 041-078 |
| 1R15 | Same as 1R8 | 041-031 |
| 1R16 | RESISTOR, fixed: carbon, 1500 ohms, $\frac{1}{2}$ watt; MIL-R-11A, RC20GF152K | 041-050 |
| 1R17 | Same as 1R11 | 041-054 |
| 1R18 | RESISTOR, fixed: carbon, .12 meg, $\frac{1}{2}$ watt, 5%; MIL-R-11A, RC20GF124J | 041-318 |
| 1R19 | RESISTOR, fixed: carbon, 22K ohms, 1 watt, 10%; MIL-R-11A, RC32GF223K124J | 041-162 |
| 1R20 | Same as 1R8 | 041-031 |
| 1R21 | RESISTOR, fixed: carbon, 220 ohms, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF221K | 041-040 |
| 1R22 | RESISTOR, fixed: carbon, 2.2K ohms, 10%, $\frac{1}{2}$ watt; MIL-R-11: RC20GF222K | 041-052 |
| 1R23 | RESISTOR, fixed: carbon, 8200 ohms, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF822K | 041-059 |
| 5R24 | RESISTOR, variable: wirewound, 500 ohms, 2 watts, 20%; Claro Part No. 39-500 | 044-178 |
| 2R25 | RESISTOR, fixed: carbon, 330K ohms, 10%, $\frac{1}{4}$ watt; Allen Bradley Part No. Type CB | 041-325 |

| REF. NO. | PART DESCRIPTION | AMPEX PART NO. |
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| 2R26 | RESISTOR, fixed: carbon, .47 meg ohms, 10%, $\frac{1}{2}$ watt; MIL-R-11: RC20GF474K | 041-080 |
| 2R27 | RESISTOR, fixed: film, .33 meg $\pm 1\%$, $\frac{1}{2}$ watt; Electra Part No. Type DC- $\frac{1}{2}$ | 042-100 |
| 2R28 | RESISTOR, fixed: film, 1500 ohms, $\frac{1}{2}$ watt, 1%; Electra Part No. DC- $\frac{1}{2}$ | 042-076 |
| 2R29 | RESISTOR, fixed: film, 10 meg, $\frac{1}{2}$ watt, 10%; MIL-R-11: RC20GF106K | 041-090 |
| 2R30 ($3\frac{3}{4}$ - $7\frac{1}{2}$ only) | RESISTOR, variable: 500K ohms, 30%, 1/4 watt; Chicago Telephone Supply Type UPE-70 Spec. 31184 | 044-207 |
| 2R31 | RESISTOR, variable: 100K ohms, 20%, 1/4 watt; Chicago Telephone Supply Type UPE-70 Spec. 31186 | 044-204 |
| 3R32 | RESISTOR, fixed: carbon, 39K ohms, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF393K | 041-067 |
| 2R33 | Same as 2R29 | 041-090 |
| 2R34 | RESISTOR, fixed: carbon, .22 meg, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF224K | 041-076 |
| 3R35 | Same as 1R13 | 041-065 |
| 4R36 | RESISTOR, variable: carbon, .25 meg, 2 watts, 10%; Allen Bradley Part No. CA2541, SD3056 | 044-128 |
| 2R37 | Same as 1R8 | 041-031 |
| 2R38 | Same as 1R16 | 041-050 |
| 2R39 | Same as 1R8 | 041-031 |
| 2R40 | RESISTOR, fixed: carbon, 82K ohms, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF823K | 041-071 |
| 2R41 | Same as 1R16 | 041-050 |
| 2R42 | Same as 2R34 | 041-076 |
| 2R43 | Same as 2R34 | 041-076 |
| 2R44 | Same as 1R8 | 041-031 |
| 2R45 | Same as 1R8 | 041-031 |
| 2R46 | RESISTOR, fixed: carbon, 1K ohm, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF102K | 041-048 |
| 2R47 | RESISTOR, fixed: carbon, 15K ohms, 10%, $\frac{1}{2}$ watt; MIL-R-11: RC20GF153K | 041-062 |
| 5R48 | RESISTOR, fixed: carbon, 560 ohms, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF561K | 041-045 |

| REF. NO. | PART DESCRIPTION | AMPEX PART NO. |
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| 2R49 | RESISTOR, fixed: carbon, 39K ohms, 10%, $\frac{1}{2}$ watt; MIL-R-11: RC20GF393K | 041-067 |
| 6R50 | RESISTOR, fixed: carbon, 1.5K ohm, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF152K | 041-050 |
| 6R51 | RESISTOR, fixed: carbon, 4.7K ohms, $\frac{1}{2}$ watt, 10%; MIL-R-11A, RC20GF472J | 041-013 |
| 6R52 | RESISTOR, fixed: carbon, 8.2K ohms, $\frac{1}{2}$ watt, 5%; MIL-R-11A, RC20GF822J | 041-309 |
| 6R53 | RESISTOR, fixed: carbon, 820ohms, $\frac{1}{2}$ 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 3R54 | 041-148 |
| 3R56 | Same as 4R2 | 041-038 |
| 3R57 | Same as 4R2 | 041-038 |
| 3R58 | RESISTOR, fixed: carbon, 15K ohms, $\frac{1}{2}$ 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%; International Resistance Corp. Type BW-1 | 043-286 |
| 1R61 | Same as 1R11 | 041-054 |
| 1R62 | Same as 1R61 | 041-054 |
| 1R63 | RESISTOR, variable: carbon, 10K ohms, 1/4 watt, 30%; Chicago Telephone Supply Part No. UPM-45, Spec. 3471 | 044-171 |
| 1R64 | RESISTOR, fixed: carbon, 8.2 ohms, 1 watt, 5%; MIL-R-11A, RC32GF825J | 041-319 |
| 1R65 | Same as 2R34 | 041-076 |
| 4R70 | RESISTOR, fixed: carbon, 330 ohms, 10%, $\frac{1}{2}$ watt; MIL-R-11: RC20GF331K (Slave only) | 041-042 |
| 2R75 | RESISTOR, fixed: carbon 680K ohms, 10%, $\frac{1}{2}$ watt; MIL-R-11: RC20GF684K | 041-082 |
| 4S1 | SWITCH, rotary: INPUT TRANSFER, 3 position | 30760-01 |
| 4S2 | SWITCH, rotary: EQUALIZATION, 2 position | 30761-01 |
| 4S3 | SWITCH, rotary: METER AND OUTPUT, 4 position | 30762-01 |
| 5S4 | SWITCH, rotary: LINE TERM, 3P4T; Oak Part No. 59016-23 | 122-016 |

| REF. NO. | PART DESCRIPTION | AMPEX PART NO. |
|----------|---|----------------|
| 4S5 | SWITCH, toggle: POWER, SPST; Carling Part no. 110-B-73 | 120-005 |
| 4S6 | SWITCH, rotary: RECORD, pushbutton SPST, normally open; Arrow H & H Part 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, 9 pin, miniature, Telefunken Part Number | 012-024 |
| 1V2 | TUBE, electron: 12AT7 | 012-034 |
| 2V3 | Same as 1V1 | 012-024 |
| 2V4 | Same as 1V1 | 012-024 |
| 2V5 | TUBE, electron: 12AU7 | 012-107 |
| 1V6 | Same as 2V5 | 012-107 |
| 3V7 | TUBE, electron: 6X4 | 012-050 |
| | *BOARD ASSEMBLY, power supply | 30754-01 |
| | *BOARD ASSEMBLY, reproduce: $7\frac{1}{2}$ -15 ips | 30962-01 |
| | *BOARD ASSEMBLY, reproduce: $3\frac{3}{4}$ - $7\frac{1}{2}$ ips | 30962-02 |
| | *BOARD ASSEMBLY, record: $7\frac{1}{2}$ -15 ips | 30963-01 |
| | *BOARD ASSEMBLY, record: $3\frac{3}{4}$ - $7\frac{1}{2}$ ips | 30963-02 |
| | FACING PANEL | 5711-02 |
| | HARNESS ASSEMBLY, master | 30966-01 |
| | HARNESS ASSEMBLY, slave | 30966-02 |
| | HOLD-DOWN KNOB, EIA reels | 30971-01 |
| | KNOB, large, skirted | 230-004 |
| | KNOB, small, skirted | 230-003 |
| | KNOB, small, with pointers | 230-008 |
| | POST, fuse (F1 and F2) | 085-001 |
| | SHIELD, tube, for all except V7 | 160-012 |
| | SHIELD, tube V7 | 160-043 |

* Etched board assemblies are complete with all mounted components including tubes.

| REF. NO. | PART DESCRIPTION | AMPEX PART NO. |
|----------|--|----------------|
| | SHOCKMOUNT | 350-015 |
| | SLEEVE, nut | 21078-01 |
| | SOCKET, tube, 7 pin | 150-067 |
| | SOCKET, tube, naval | 30818-01 |
| | CABINET, console | 5797-00 |
| | CABLE ASSEMBLY, power interconnecting for rack mounted equipment | 30812-01 |
| | CABLE ASSEMBLY, power interconnecting portable equipment | 30812-02 |
| | CABLE, bias interconnecting for dual track equipment | 14943-02 |
| | CABLE, extension | 5795-00 |
| | CABLE, power | 2413-00 |
| | CASE, portable, Electronic Assembly, single unit | 4100-00 |
| | CASE, portable, Electronic Assembly, dual track unit | 3935-00 |
| | CASE, tape transport | 5727-00 |
| | REEL ADAPTER | 976-00 |
| | EDITING KNOB, console and portable | 1917-00 |
| | HOLD-DOWN KNOB, reel, for rack | 9093-00 |
| | REMOTE CONTROL UNIT, single track, complete with 30 foot cable | 5763-00 |
| | Remote Control Unit Parts | |
| J701P | CONNECTOR, receptacle: male, 10 contact; Jones Part No. P-310-AB | 147-014 |
| | CONNECTOR, plug: female, 3 contact, output connector; Cannon Part No. XL-3-11 | 144-003 |
| | CONNECTOR, plug: male, 3 contact, line IN on microphone connector; Cannon Part No. XL-3-12 | 145-009 |
| A702 | LAMP, REMOTE TAPE MOTION: | |
| | Same as A701 | 060-006 |
| | LAMP BASE, green | 132-007 |
| | LAMP BASE, red | 132-006 |

| REF. NO. | PART DESCRIPTION | AMPEX PART NO. |
|----------|--|----------------|
| A701 | LAMP, REMOTE RECORD: 120 volts, 6 watts | 060-006 |
| S701 | PUSHBUTTON, fast forward | 120-013 |
| S702 | Same as S701, rewind | 120-013 |
| S703 | PUSHBUTTON, STOP | 120-014 |
| S704 | Same as S701, START | 120-013 |
| S705 | Same as S701, RECORD, single track | 120-013 |
| | Same as S701, RECORD, dual track | 120-013 |
| | REMOTE CONTROL UNIT, dual track, complete with 30 foot cable | 5763-2 |
| | REMOTE CONTROL PANEL, single track, unwired, less cable and box | 5763-1 |
| | REMOTE CONTROL PANEL, dual track, unwired, less cable and box | 5763-3 |
| | WOODBOX, grey | 3661-00 |