

PWA 4050771

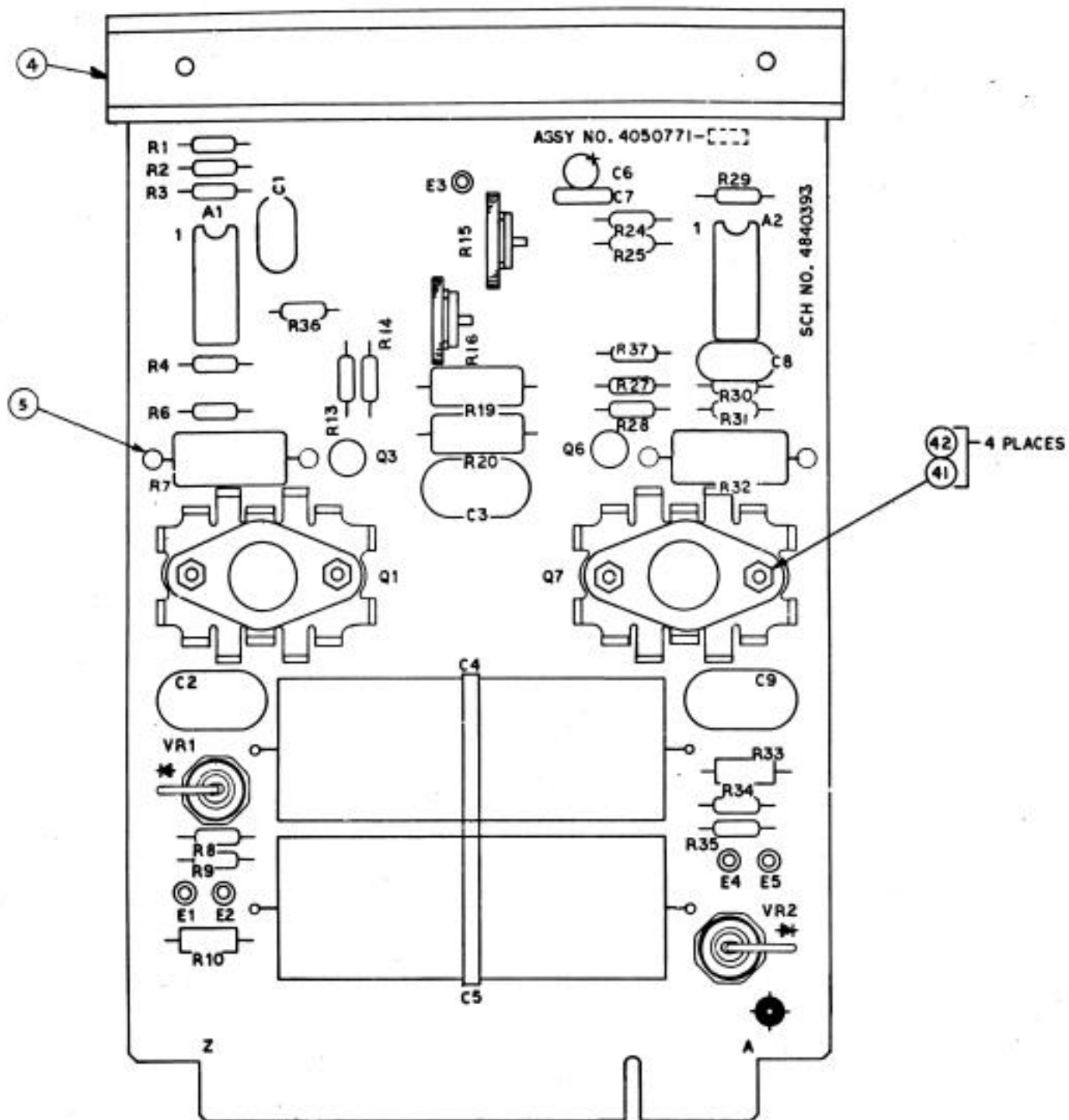
- NOTES: UNLESS OTHERWISE SPECIFIED
1. CAPACITANCE VALUES ARE IN MICROFARADS
  2. RESISTANCE VALUES ARE IN OHMS, 1/4-W, 5%.
  3. HEATSINK REQUIRED.
  4. PWA NO. IS 4050771-03, ARTWORK ISSUE LETTER IS 'J'.

FIELD SERVICE SUBSTITUTION		REFERENCE DESIGNATION	
AMPEX P/N	NEAREST COMM'L EQUIVALENT	LAST USED	NOT USED
014-383	2N2484	R37	R5,11,2,7,18,21-23
014-882	MP53688A	C9	R26
580-729	2N5239	Q7	Q2,4,5
580-268	UA741(UA741A)	EC	
		VR2	
		A2	

Schematic No. 4840393F.  
Motor Drive Amplifier Assembly



ITEM NO.	AMPEX PART NO.	REFERENCE NUMBER	DESCRIPTION	JEDEC NO. OR MFR. PART NO.
	4020392-02		MOTOR DRIVE AMPLIFIER ASSEMBLY (NHA 4010240)	
1	4030354-01		MOTOR DRIVE AMPLIFIER FAN ASSEMBLY	
3	4050768-01		MOTOR DRIVE AMPLIFIER HARNESS ASSEMBLY	
4	4050771-03		MOTOR DRIVE AMPLIFIER PWA	
6	4260457-02		SUPPORT, CHASSIS	
9	4260459-02		BRACKET, CONNECTOR	
10	4290728-02		CHASSIS	
12	4290796-01		HEATSINK	
14	4290831-02		COVER, MDA ASSEMBLY	
16	4330334-01		PLATE, INTERCONNECT	
19	1374158-01		FILTER	
22	014-814	Q103,104	TRANSISTOR	2N3715
23	030-300	C101,103	CAPACITOR, CER, 0.1 UF, 500V	
24	064-418	C102	CAPACITOR, CER, 0.1 UF, 100V	
25	043-856	R101,102,105,106	RESISTOR, WW, POWER, 1 OHM, 5W, 3%	
26	043-806	R103,104	RESISTOR, WW, POWER, 0.5 OHM, 5W, 5%	
27	043-968	R107	RESISTOR, WW, POWER, 0.25 OHM, 5W, 3%	
28	147-007	J101	CONNECTOR, MALE, CHASSIS MTG, 15 PIN	
29	139-413	J102	CONNECTOR, 22 PIN	
30	180-067	TB1	TERMINAL STRIP, 4 LUG	
31	173-701	E1-6	TERMINAL, FEED THRU	
32	580-510		SOCKET, TRANSISTOR, TO-3	
33	580-729	Q101,102,105,106	TRANSISTOR	2N5239
34	581-647	CR101,102	DIODE	SDA103-3
35	530-343		GUIDE, CARD	
37	169-818		KEY, POLARIZING, REF: J102	
38	471-065		SCREW, PAN HD, XREC, NO. 4-40 X 0.62 LG	
39	471-069		SCREW, PAN HD, XREC, NO. 6-32 X 0.38 LG	
40	471-060		SCREW, PAN HD, XREC, NO. 4-40 X 0.25 LG	
41	471-070		SCREW, PAN HD, XREC, NO. 6-32 X 0.44 LG	
42	471-072		SCREW, PAN HD, XREC, NO. 6-32 X 0.62 LG	
43	471-120		SCREW, PAN HD, XREC, CRES, NO. 6-32 X 0.44 LG	
48	302-525		STRAP, CABLE	
52	496-006		NUT, KEP, NO. 6-32	
53	492-008		NUT, PLAIN, HEX, NO. 4	
54	492-009		NUT, PLAIN, HEX, NO. 6	
56	501-169		WASHER, PLAIN, SM PATTERN, NO. 4	
57	501-008		WASHER, PLAIN, NO. 4	
58	501-009		WASHER, PLAIN, NO. 6	
59	501-015		WASHER, PLAIN, CRES, NO. 6	
60	502-002		WASHER, LOCK, SPRING, NO. 4	
61	502-003		WASHER, LOCK, SPRING, NO. 6	
62	502-031		WASHER, LOCK, INT, CRES, NO. 6	
65	580-445		INSULATOR, MICA	
81	4840393		SCHEMATIC	



Assembly No. 4050771. Motor Drive Amplifier PWA

ITEM NO.	AMPEX PART NO.	REFERENCE NUMBER	DESCRIPTION	JEDEC NO. OR MFR. PART NO.
	4060771-03		MOTOR DRIVE AMPLIFIER PWA (NHA 4020392)	
4	4120025-01		HANDLE, PWB	
5	103307-01		STANDOFF, REF: R7,32	
8	013-828	VR1,2	DIODE	1N30158
9	014-383	Q3,6	TRANSISTOR	2N2484
11	580-742		HEATSINK, REF: Q1,7	
12	037-895	C6	CAPACITOR, TANT, 3.3 UF, 35V, 20%	
13	064-434	C2,3,9	CAPACITOR, FIXED, CER, 5000 PF, 1KV	
14	069-048	C4,5	CAPACITOR, POLYFOIL, 1.0 UF, 400V, 10%	
16	064-116	C7	CAPACITOR, CER, DISC, 0.01 UF, 50V, +80%-20%	
18	041-336	R10,33	RESISTOR, COMP, 470 OHM, 1/2W, 5%	
19	041-393	R4,30	RESISTOR, COMP, 1M, 1/4W, 5%	
20	041-394	R13,31	RESISTOR, COMP, 100K, 1/4W, 5%	
21	041-406	R6,27	RESISTOR, COMP, 22K, 1/4W, 5%	
22	058-202	R15,16	RESISTOR, VAR, CAR, 50K, 1/4W, 30%	
27	041-549	R3,29	RESISTOR, COMP, 13K, 1/4W, 5%	
28	041-612	R8,9,14,28,34,35	RESISTOR, COMP, 30K, 1/4W, 5%	
29	041-984	R7,32	RESISTOR, COMP, 15K, 2W, 5%	
30	062-997	R1,25	RESISTOR, MF, 18.2K, 1/8W, 1%	
33	280-921		SPACER, UNTHREADED, 0.375 OD X 0.194 ID X 0.250 LG	
34	580-219	Q1,7	TRANSISTOR	2N4240
35	586-268	A1,2	INTEGRATED CIRCUIT	UA741
36	041-465	R19,20	RESISTOR, COMP, 680 OHM, 1W, 5%	
37	076-065	R2,24	RESISTOR, MF, 22.1K, 1/8W, 1%	
38	302-388		STRAP, CABLE	
41	471-069		SCREW, PAN HD, XREC, NO. 6-32 X 3/8 LG	
42	496-005		NUT, KEP, NO. 6-32	
46	473-324		SCREW, PAN HD, SEM, NO. 4-40 X 1/4	
47	501-008		WASHER, FLAT, NO. 4	
51	492-463		NUT, HEX, SMALL PAT, NO. 10-32	
58	035-853	C1,8	CAPACITOR, MYLAR, 0.056 UF, 50V, 5%	
59	041-415	R36,37	RESISTOR, COMP, 68K, 1/4W, 5%	
80	4840393		SCHEMATIC	

SHEET 1 OF 1