



SERVICE NOTE

EFFECT: TAC/SCANTM CONVERT-A-PAK

NUMBER: 002 11/24/82

It has been noted that a number of TAC/SCANTM CONVERT-A-PAK's (P/N 700-0107) have left the factory with two possible assembly problems. We recommend that you perform the following simple checks:

1. With the front electronics compartment door open, reach up on both sides and flip the control panel latches up. Swing the control panel up and out, revealing the control panel harness connector on your right. With each wire, one at a time, tug firmly (though NOT HARD), checking for loose pin crimps. In the event that any wires do pull out of the connector, an attempt can be made to salvage the pins; using a Molex pin extractor, remove the pin from the connector. Pry open the crimp, re-insert the wire, and re-crimp the pin onto the wire. If the pin cannot be saved, replacement Molex female pins (P/N 211-0042) are available from your distributor.
2. Facing an open G-80 card cage, note the red plastic connectors at the front edge of the various cards. This is an "insulation-displacement" type of connector, and the problem here is that the wires may not be inserted into the connector far enough to effect an electrical connection. Simply take any thin-bladed screwdriver (a "tweezer" is ideal) and push the wires further into the connector. This forces the wire between two metal "blades", cutting the insulation and bringing the conductor into physical contact with that particular "pin-out".



SERVICE NOTE

EFFECT: Tac/Scan

NUMBER: 003

The following list comprises the Recommended Spare Parts List for the support of 10 games (and presumes the user to a stock of common ICs consistent with a contemporary digital electronic repair facility):

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>REF. DES.</u>	<u>PRICE-EA.</u>
ASSY ROTARY INTERFACE		800-0382			
1.	300-0006	2	XSTR, Opto Electric Encoder	DS1, DS2	5.60
ASSY AC JUNCTION BOX		800-0145			
2.	270-0001	1	FILTER, EMI		20.00
3.	514-0001	5	FUSE, 2A 250V S.B.		1.50
4.	514-0051	5	FUSE, 1A 250V		.70
5.	514-0053	5	FUSE, 5A S.B.		.70
ASSY COLOR X-Y MONITOR		200-0025			
6.	481-0211	1	DIODE, Zener 1N751	ZD903, 904	.30
7.	481-0207	1	RECTIFIER, 1A 1400V	D901	.80
8.	560-0062	1	XFMR, Horiz. Buffer	T900	5.20
9.	560-0073	1	XFMR, Horiz. Output	T901	49.20
10.	180-0010	1	CHOKE, Horiz Delay	L900	1.60
11.	482-0242	2	XSTR, 5A 1400V Power	Q900	5.50
12.	481-0202	1	RECTIFIER	D400-403	6.50
13.	481-0020	2	RECTIFIER, 1A 200V	D404	.40
14.	481-0204	1	DIODE, Zener 1N5263B	ZD400	.30
15.	481-0205	1	DIODE, Zener 1N5239B	ZD401	.30
16.	481-0179	1	DIODE, Zener 9.1V 1W 5%	ZD402	.50
17.	482-0260	4	XSTR, 2N6259	Q605, 606, 750, 706	8.30
18.	800-0307	1	PCB, Input Limiter		54.40
19.	800-0318	1	PCB, Input Clamp		15.50
ASSY EM1 TRANSFORMER		800-0190			
20.	560-0055	1	XFMR, G-80 Power Supply		120.70

SEGA Electronics, Inc., 16250 Technology Drive, San Diego, CA 92127-1985

Toll-free technical assistance inside CA 1-800-722-8576

Toll-free technical assistance outside CA 1-800-854-1938

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>REF. DES.</u>	<u>PRICE</u>
ASSY CPU BOARD		800-0107			
21.	151-0060	2	CAP, 0.1MF 16V - C	C37	.20
22.	151-0061	5	CAP, 22.PF 16V - C	C31	.30
23.	230-0013	1	XTAL, 8.000 mHz	Y1	12.00
ASSY 2716 EPROM BOARD		800-0151			
24.	151-0058	2	CAP, 0.01MF 16V - C	C2	.20
ASSY X-Y CONTROL BOARD		800-0163			
25.	481-0006	2	DIODE, 1N914	D1	1.00
ASSY X-Y TIMING BOARD		800-0161			
26.	230-009	1	XTAL, 15.46868 mHz	Y1	10.00
ASSU G-80 POWER SUPPLY CHASSIS					
27.	482-0104	2	XSTR, PWR TIP141	TIP141	4.12
28.	482-0100	2	XSTR, PWR TIP125	TIP125	1.20
29.	482-0019	2	XSTR, PWR TIP120	TIP120	2.00
ASSY G-80 POWER SUPPLY PC BOARD					
30.	150-0088	2	CAP, 10MF 25V-E	C5,8, et al.	.40
31.	150-0097	1	CAP, 4700MF 16V-E	C15,16,27, 28	2.20
32.	151-0011	1	CAP, 0.0MD 50V-C	C21,22,25 29	.50
33.	481-0002	1	DIODE, MR751	D10,12	1.60
34.	481-0004	3	DIODE, MR501	D6-9, 11 13-17	1.00
35.	481-0006	1	DIODE, 1N914	D1,4, 5	1.00
36.	514-0002	3	FUSE, 3A		.50
37.	514-0006	3	FUSE, 1.5A		.26
38.	514-0008	3	FUSE, 10A SLOW BLOW		.70
ASSY SOUND BOARD		800-0377			
39.	313-0037	2	IC TL081	U49	.35
40.	313-0038	13	IC TL082	U1,U3-U6,U9, U17-U23	.65
41.	314-0018	2	IC 74LS244	U55	.35
42.	314-0062	3	IC 74LS74	U2,U38	.56
43.	314-0075	2	IC 74LS393	U32,U33	1.70
44.	314-0076	4	IC 74LS157	U56,U58	.36
45.	315-0099	2	IC 74LS245	U52,U53	2.75
46.	315-0035	2	IC MM5837	U60	1.50
47.	315-0046	5	IC 2114	U44,U45	3.65

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>	<u>REF. DES.</u>	<u>PRICE</u>
48.	315-0077	2	IC CD4053	U46	5.25
49.	315-0079	10	IC CD4053	U7,U8,U15,U16, U30,U31	
50.	315-0132	10	IC AD7524	U12-U14,U24- U29	2.90

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