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ARVER

Model TFM-25 SERVICE MANUAL

SPECIFICATIONS	Page
SPECIFICATIONS	2
BLOCK DIAGRAM	2
ALIGNMENT PROCEDURES	3
VOLTAGE CONVERSION	4
PCB COMPONENT SIDE VIEWS	5
EXPLODED VIEWS	7
PARTS LIST	9
SCHEMATIC DIAGRAMS	13

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SPECIFICATIONS

225 watts RMS per channel into 8 ohms both channels driven, 20-20 kHz Power:

with no more than 0.5% THD.

350 watts RMS per channel into 4 ohms both channels driven, 20-20 kHz

with no more than 0.5% THD.

350 watts RMS mono output into 8 ohms load.

Frequency Response: +0.5 dB 20-20 kHz.

IM Distortion:

Less than 0.5%.

Noise:

100 dB A-weighted referenced to rated power.

Input Impedance:

115 K ohms.

Sensitivity:

1.5 V RMS for rated 8 ohms power.

Gain:

30 dB.

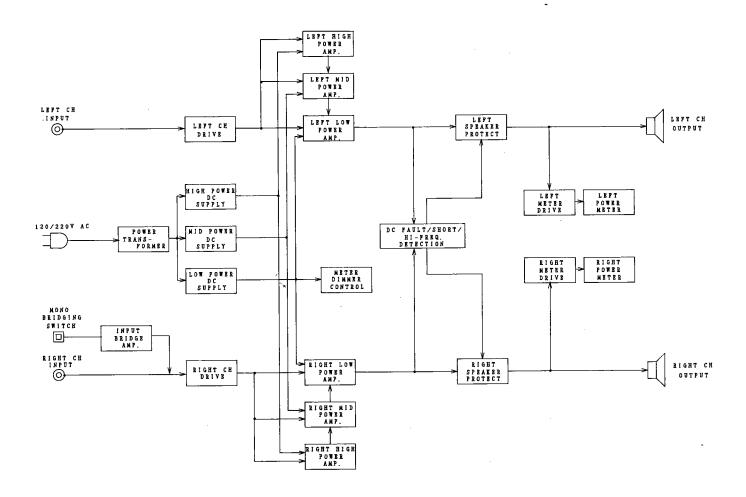
Dimensions:

4.7"H×19"W×14.3"D.

Weight:

26 lbs.

BLOCK DIAGRAM



ALIGNMENT PROCEDURES

Condition

STEREO/MONO switch: STEREO position

IDLING

- 1. No input.
- 2. Preheat for 5 minutes.
- 3. Connect the DC digital volt meter + / to the test point TP201(L) / TP203(L).
- 4. Adjust VR201 until the DC volt meter is 1.00 mV.
- 5. Connect the DC digital volt meter + / to the test point TP202(R) / TP204(R).
- 6. Adjust VR202 until the DC volt meter is 1.00 mV.

POWER METER

- 1. Connect the audio generator to RIGHT and LEFT INPUTS.
- 2. Set the input frequency to 1 kHz.
- 3. Adjust the input level until output is 21 Vrms (8 ohms, 55 W).
- 4. Adjust VR401 / VR402 until the LEFT / RIGHT meter show 55 W.

ALIGNMENT POINTS

MA-801 Main Amp P.C.Board

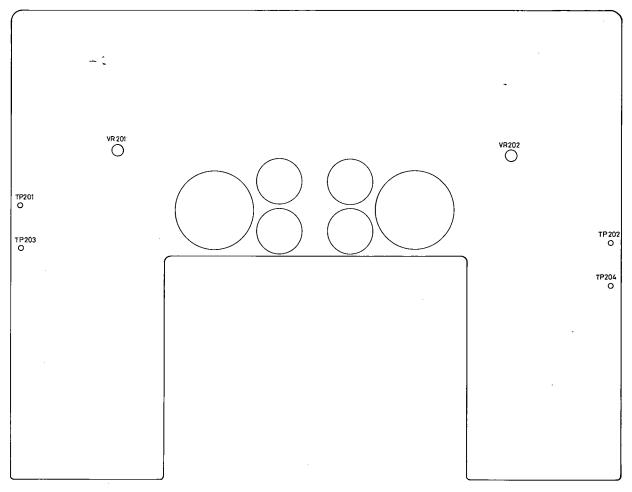


Fig. 1

MD-801 Meter Drive P.C.Board

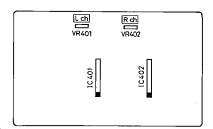


Fig. 2

VOLTAGE CONVERSION

220 V/50 Hz Version

Bill of Materials

Q'ty	Part No.	Description
1	530-10130-00	TFM-25 FINISHED GOODS
1 1	530-10088-00	LABEL 220 V AC 50 HZ
1 1	530-10058-00	LABEL VOLTAGE CONVERSION
1	530-10013-00	LABEL MILITARY CONVERSION

Direction for Change

- 1. Remove the lead wire from 6-pin to 4-pin.
- 2. Change the lead wire of T501 (5-pin) from 2-pin to 3-pin.
- Put the label 530-10088-00 (220 V AC 50 Hz) on printed in 120 V AC 60 Hz.
- Using spray adhesive, mount label 530-10058-00 (VOLTAGE CONVERSION) to inside top cover.
- Apply label 530-10013-00 (MILITARY CONVERSION) to bottom of unit.

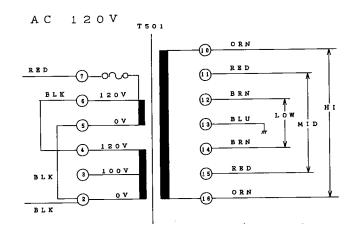


Fig. 3

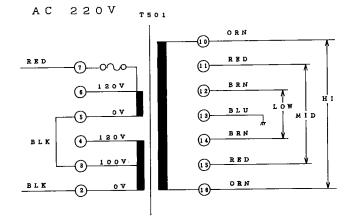


Fig. 4

E VIEWS

*

EXPLODED VIEWS

K

PARTS LIST

MAIN AMP PCB	ASS!	Y	
REF. NO.	@ TY	CARVER PART NO	• DESCRIPTION
P•C•BOARD 9E30	1	MA-801	PRINTED CIRCUIT BOARD
SEMICONDUCTO 0201~208	RS B	155176	DIODE
D209~220 D221~224	12	1N4002 10ELS4-AT	010DE 010DE
0225~232	8	30DF2FC	DIODE
D233~236»		DS446	DIODE
301~310 D311,312	2	1N4002	DIODE
0451	.1	ZD50-057	ZENER DIODE,1/2W,5.7V
D501~512 D513,514	12 2	6A2-F 1N4002	D109E D100E
D515,516	2	ZD50-157	ZENER DIODE+1/2W+15.7V
9201,202	2	2SA1370-E.F	TRANSISTOR
0203,204, 207,208	4	2\$C3467-E,F	TRANSISTOR
9209,210	2	25A1370-E+F	TRANSISTOR
9215•216• 229	3	25C2240-GR	TRANSISTOR
Q230 Q231	1	25A970-GR	TRANSISTOR
9232	1	25A1306A-0;Y 25C3298A-0;Y	TRANSISTOR TRANSISTOR
0237,238	2	2SA1015-GR 2SC2240-GR	TRANSISTOR
Q301,302 Q303~305	2 3	25A970-GR	TRANSISTOR Transistor
0451	1	2502012	TRANSISTOR
9452 9501	1	2SC1815-Y,GR 2SD2012	TRANSISTOR Transistor
Q502	ī	2581375	TRANSISTOR
1C301	1	TA7317P	IC
CAPACITORS		~ `	
C201~204		HM60SJSL101K	CERAMIC CAPACITOR
C205,206	2	NS-50TW4R7M HM60SJSL680K	ELECTROLYTIC CAPACITOR CERAHIC CAPACITOR
C211~214	4	NS100TW1R0M	ELECTROLYTIC CAPACITOR
C215,216 C217~224	2	MY-50VU104J	MYLAR CAPACITOR
C225,226	8 2	MY100VS104K MY100VU473J	MYLER CAPACITOR MYLAR CAPACITOR
C227,228	2	HM60SJYB102K	CERANIC CAPACITOR
C301,302 C303~306	2	HE70SJSL271K HE70SJYF103Z	CERAMIC CAPACITOR CERAMIC CAPACITOR
C307+308		NS-25TW470M	ELECTROLYTIC CAPACITOR
C309 C310	1	NS-25TW220M NS-25TW330M	ELECTROLYTIC CAPACITOR ELECTROLYTIC CAPACITOR
C311	1	NS-50TWR47M	ELECTROLYTIC CAPACITOR
C315 C452	1	HE50SJYB102K HE70SJYF103Z	CERAMIC CAPACITOR CERAMIC CAPACITOR
C501,502	2	BC00103MH60GH	ELECTROLYTIC CAPACITOR
C503,504 C505,506		BC63332M240HC BC35682M240HC	ELECTROLYTIC CAPACITOR! ELECTROLYTIC CAPACITOR!
C507,508	2	NS-25TW470M	ELECTROLYTIC CAPACITOR
C509 C510	1	NS-35TW471M-KF	ELECTROLYTIC CAPACITOR! ELECTROLYTIC CAPACITOR
C511+512	2	NS-25TW470M	ELECTROLYTIC CAPACITOR
C701	1	YE103	METALIZED FILM CAPACITOR
RESISTORS R201~204	4	KA25ST911J	CARBON RESISTOR
R205~208		KA25ST102J	CARBON RESISTOR
R209~212 R213:214	4 2	FR25ST430J-LP KA25ST103J	FLAME PROOF RESISTOR CARBON RESISTOR
R215,216	2	KA25ST122J	CARBON RESISTOR
R217~220 R221~224	4	KA25ST100J FR25ST100J-LP	CARBON RESISTOR FLAME PROOF RESISTOR
R225~228	4	KA25ST100J	CARBON RESISTOR
R229,230 R231~234	2	KAZ5ST102J KAZ5ST222J	CARBON RESISTOR CARBON RESISTOR
8235~238	4	KA50XT272J	CARBON RESISTOR
R239~242 R243,244	4	KA25ST221J KA25ST220J	CARBON RESISTOR CARBON RESISTOR
R245+246	2	KA25ST270J	CARBON RESISTOR
R247~258 R259~266	12 8	MPC76R05K-LF FR50ST100J-LP	CEMENT RESISTOR FLAME PROOF RESISTOR
R267,268 R269,270	2	5A-1WT4R7J-LP	METAL OXIDE
R 271 , 272	2	SA-2WT4R7J-LP MPC75R05K-LF	METAL OXIDE RESISTOR CEMENT RESISTOR
R273+274 9275+276	2	KA255T101J KA25ST222J	CARBON RESISTOR CARBON RESISTOR
R277,278	2	KA25ST302J	CARBON RESISTOR
R279+280 R281+282	2	KA25ST102J KA25ST222J	CARBON RESISTOR CARBON RESISTOR
2283,284	2	KA25ST562J	CARBON RESISTOR
R285~288 R289,290	4 2	KA25ST101J KA25ST132J	CARBON RESISTOR CARBON RESISTOR
R 291 , 292	2	KA25ST302J	CARBON RESISTOR
R301~304 R305~308	4	KA25ST151J KA25ST472J	CARBON RESISTOR CARBON RESISTOR
R313~316 R317,318	4 2	KA25ST101J KA25ST393J	CARBON RESISTOR
R319~322	4	KA16ST563J	CARBON RESISTOR CARBON RESISTOR
R323 R324	1	KA16ST104J KA16ST473J	CARBON RESISTOR CARBON RESISTOR
R325	1	KA16ST223J	CARBON RESISTOR
R326 R327	1	KA16ST473J KA16ST224J	CARBON RESISTOR CARBON RESISTOR
R328	1	KA16ST203J	CARBON RESISTOR
R329 R330	1	SA-2WT471J-LP KA16ST563J	METAL OXIDE RESISTOR CARBON RESISTOR
2331	1	KA16ST333J	CARBON RESISTOR
R 332 R 451	. 1	KA165T183J KA165T471J	CARBON RESISTOR CARBON RESISTOR
R452,501, -502	3	KA16ST102J	CARBON RESISTOR
R 50 3	1	KA25ST103J	CARBON RESISTOR
R505,506	2	FR255T560J-LP	FLAME PROOF RESISTOR

REF. NO.	. g.ty	CARVER PART N	O. DESCRIPTION
VR 201 + 20	2 2	SVR-06T3B501	SEMI-VARIABLE RESISTOR
COILS			
L201,20	2 2	104001	AIR-CORE COIL
MISCELLANE	ous		
H451	1	OSH-1625-MP	HEAT SINK
9E28	46	E100	JUMP WIRE
9E29	67	E200	JUMP WIRE
CN101+10		B6B-EH-A	CONNECTOR
CN103	1	838-EH-A	CONNECTOR
CN 201 + 20	2 2	52011-0310	CONNECTOR
CN401		B3B-EH-A	CONNECTOR
CN451	1	B5B-EH-A	CONNECTOR
EL501	1	59BS1692	GND LUG
FW203,20	4 2	M203-770	MICRO SOCKET ASS'Y
RY301,30	5 5	AJR39091	RELAY
SP 20 1	1	YKD31-0353	SUCKET 4P (S.P.)
T3501		WF-3	TERMINAL PIN
T9502		WF-4	TERMINAL PIN
TB701,70	2 2	WF-3	TERMINAL PIN
Tº201~20		RP-001	TERMINAL PIN
301~30			
TP701,70	2 2	59B\$4795	GND LUG

REF. NO.	g.ty	CARVER PART NO	• DESCRIPTION
P.C.BOARD			·
2E24	1	MI-801	PRINTED CIRCUIT BOARD
	_		
SEMI CONDUCTOR		0000000 4 0	T041/01/0700
9102 9103,104	1 2	25C2878-A+B 2SC2240-GR	TRANSISTOR
9105,106	2	25A970-GR	TRANSISTOR TRANSISTOR
Q151	í	25A1015-Y,GR	TRANSISTOR
	-	2011222 17011	TARABETOR .
IC101:151;	3	NJM4565LB	I.C
152			
CAPACITORS	-	FCCV10474 (7	UFT41 / 17F0 F1 H 645
C101,102 C103,104	2	ECGV1H474JZ HE50SJSL121K	METALLIZED FILM CAPACITOR
C105,104	2	HESUSJSLIZIK HE40SJSL470K	CERAMIC CAPACITOR CERAMIC CAPACITOR
C107,108	2	MY-50VU103J	MYLAR CAPACITOR
C109,110	2		ELECTROLYTIC CAPACITOR
C151+152	2	HE70SJSL271K	CERAMIC CAPACITOR
C153	1	ECQV1H104JZ	METALLIZED FILM CAPACITOR
C155~158	4	HE70SJYF1032	CERAMIC CAPACITOR
RESISTORS R101,102	2	MF165T222G	METAL FILM RESISTOR
R103+104	2	MF165T104G	METAL FILM RESISTOR
R105,104	2	MF16ST471G	METAL FILM RESISTOR
R110	ì	KA16ST105J	CARBON RESISTOR
R111+112	ž	KA16ST104J	CARBON RESISTOR
R113,114	2	MF163T273G	METAL FILM RESISTOR
R115,116	2	MF16ST103G	METAL FILM RESISTOR
R117~120	4	KA16ST162J	CARBON RESISTOR
R121~124	4	KA16ST822J	CARBON RESISTOR
R125~128	4	KA16ST472J	CARBON RESISTOR
R129~132 R151~154	4	KA16ST202J	CARBON RESISTOR
R151~154	4	MF16ST123D MF16ST102D	METAL FILM RESISTOR METAL FILM RESISTOR
R159,160	2	MF165T9116	METAL FILM RESISTOR
R161,162	ž	MF16ST5626	METAL FILM RESISTOR
R163,164	2	HF16ST102G	METAL FILM RESISTOR
R165	ĩ	MF16ST303G	METAL FILM RESISTOR
R166	1	MF165T222G	METAL FILM RESISTOR
R167	1	KA16ST472J	CARBON RESISTOR
P168	1	KA165T204J	CARBON RESISTOR
SWITCHES			
SW151	1	SSB022	SLIDE SHITCH
	_		
MISCELLANEOUS			
2E21	5	E100	JUMP WIRE
MC101,102	2	MZ06-766	MICRO SOCKET ASS'Y
MC103	1	MZ03-762	MICRO SOCKET ASS'Y
	•	/ / / /	HICKO SUCKET ASS 1
RJ101	1	T5764-AA	RCA JACK 2P

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REF. NO.	YTO	CARVER PART NO	DESCRIPTION
			<u> </u>
P.C.BOARD			
4E16	1	MD-801	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
D401+402	, 2	155176	DIODE
54017402	-		• • • • • • • • • • • • • • • • • • • •
Q401~404	4	25C1815-Y+GR	TRANSISTOR
IC401,402	2	NJM4558L	I.C
CAPACITORS			
C401:402	2	NS-16TW220M	ELECTROLYTIC CAPACITOR
C403,404	2	HE40SJSL470K	CERAMIC CAPACITOR
C405,406	2	NS-16TW220M	ELECTROLYTIC CAPACITOR
C407,408	2	HE50SJSL101K	CERAMIC CAPACITOR
C409,410	2	NS-50TW4R7M	ELECTROLYTIC CAPACITOR
C411~414	4	NS-16TW101M	ELECTROLYTIC CAPACITOR
C415+416	2	NS-25TW470M	ELECTROLYTIC CAPACITOR
C417,413	2	HE705JYF103Z	CERAMIC CAPACITOR ELECTROLYTIC CAPACITOR
C 451	1	NS-25TW100M	ELECTROLITIC CAPACITOR
RESISTORS			•
R401,402	2	KA16ST155J	CARBON RESISTOR
R403,404	2	KA16ST133J	CARBON RESISTOR
R405,406	2	KA16ST473J	CARBON RESISTOR
R407,408	2	KA165T561J	CARBON RESISTOR
R409,410	2	KA16ST203J	CARBON RESISTOR
R411,412 R413,414	2	KA16ST432J KA16ST202J	CARBON RESISTOR
R415,416	2	KA16ST102J	CARBON RESISTOR
R417,418	2	KA16ST101J	CARBON RESISTOR
R419,420	ž	KA165T394J	CARBON RESISTOR
R421,422	ž	KA16ST180J	CARBON RESISTOR
R423~426	4	.KA165T911J	CARBON RESISTOR
R427,428		KA16ST820J	CARBON RESISTOR
R429,430	2	KA16ST304J	CARBON RESISTOR
R431,432	2	KA25ST223J	CARBON RESISTOR
R 453	1	KA16ST472J	CARBON RESISTOR CARBON RESISTOR
R454	1	KA16ST562J	CARDUR RESISION
VR401,402	2	5VR-06S38504	SEMI-VARIABLE RESISTOR
VR451	ī	EVJ-2KA323814	ROTARY POTENTIOMETER
MISCELLANEOUS	-	-100	HIMD INTOF
4E14	7	E100	JUMP WIRE
CN402	1	S4B-EH	CONNECTOR
CN452	î	S2B-EH	CONNECTOR
- · · · - -	-		
MC401 MC451	1	MZ03-763 MZ05-765	MICRO SOCKET ASS'Y MICRO SOCKET ASS'Y

INDICATOR PCB ASS'Y

REF. NO.	D'TY	CARVER PART NO	DESCRIPTION
. C. BOARD			
4E23	1	LD-801	PRINTED CIRCUIT BOARD
11SCELLANE DU:	s		
HC 452	1	MZ02-761	MICRO SOCKET ASS'Y
PL451,452	2	BF310-05081A	LAMP+12V+0-15A

IDLING CURRENT PCB ASS'Y

REF. NO.	DILA	CARVER PART NO	• DESCRIPTION
· C. BDARD		·	····
10E12	2	10-801	PRINTED CIRCUIT BOARD
SEMICONDUCTO	RS		
Q205,206	2	25C1846-R	TRANSISTOR
11 SCELLANE DU	ıs		
FW201,202	2	4685243B09-J-7	3-LEAD, FLAT CABLE

OTHER PARTS

REF. NO.	O'TY	CARVER PART NO	DESCRIPTION
MISCELLANEOU	s		
W701,702	2	015S200A17-D-E	SOLDER PLATED WIRE
W703,704	Ź	015S200B08-E-E	SOLDER PLATED WIRE
W705	1	015S200B15~E~E	SOLDER PLATED WIRE
W706	1	015S200R15-E-E	SOLDER PLATED WIRE
¥707	1	0155200021-E-E	SOLDER-PLATED WIRE
W708	1		SOLDER PLATED WIRE
W709,710	2		SOLDER PLATED WIRE
W711	1	0155200026-D-E	SOLDER PLATED WIRE
¥712	1		SOLDER PLATED WIRF
¥713	1		SOLDER PLATED WIRE
¥714,715	2	015S200T30-E-E	SOLDER PLATED WIRE
1917	2	U9-#01B015	UL TYPE TUBE
HC402	1	MZ04-764	MICRO SOCKET ASS'Y
10E28	3	NO.5167	CORD CLAMP
10E29	6	BK-1	CORD CLAMP

EXPLODED VIEWS

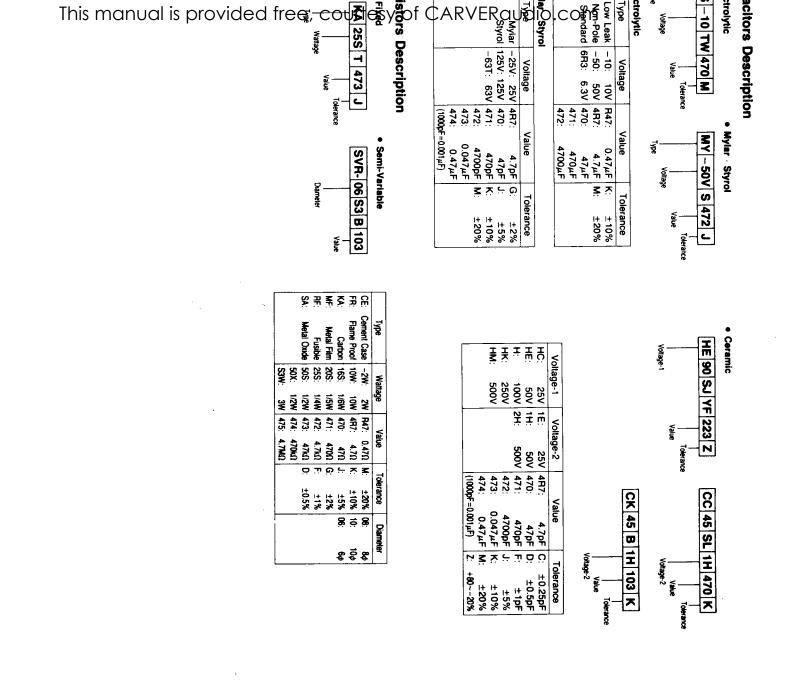
EXPLODED VIE	M-3		
REF. NO.	a'TY	CARVER PART NO	DESCRIPTION
SEMICONDUCTO			
0211,212	2	25C3280-R+0	TRANSISTOR
9213-214	2	25A1301-R+0	TRANSISTOR TRANSISTOR
9217,218 9219,220	2	25C3281-R+0 2SA1302-R+0	TRANSISTOR
9221,222	ž	2SC3281-R+0	TRANSISTOR
9223,224	2	25A1302-R+0	TRANSISTOR
3225,226	2	25C3281-R+0	TRANSISTOR
9227+228	2	2SA1302-R+0	TRANSISTOR
0233,234	2	25C3281-R+0	TRANSISTOR
9235,236	2	2SA1302-R,0	TRANSISTOR
COILS			
T501	1	NPT-27645	POWER TRANSFORMER
SWITCHES.			
S₩701	1	ESB-99713V	POWER SWITCH
MISCELLANEOU	۹.		
F701	, 1	FU-621034-312	FUSE
1	•		
M401,402	2	KL290B-19	METER
	_		
1M 1	1	N21755-1	FRONT PANEL
1M 3 1M 4	1 1	N31103-1 N45660-1	SUB PANEL, R SUB PANEL, C
1 n 4	i	N45659-1	SUB PANEL L
1 1 7	ž	N44093A-BK1	HANDLE
1M 8	4	N44092-BK1	HANDLE SPACER
1M11	1	N10545-1	FRONT BASE
1M13	1	N44260-T-8K1	KNOB 12
1H14 1H17	1 1	N45417-BK N21765	PUSH BUTTON Cabinet
1M19	i	N21766-1	REAR PANEL
1820	i	N21767	BOTTOM PLATE
1M23	4	NO-7104	FOOT
			acuteo évicas
2M 1 2M 2	1 1	N21760 ~ N30888A	CENTER CHASIS CENTER CHASIS, R
2 M 3	i	N30889A	CENTER CHASIS+ L
2M 4	î	N31100	SUPPORT CHASSIS(PT)
2M 5	ī	N31098	SIDE CHASIS R
2M 6	1	N31099	SIDE CHASIS L
2M 7	2	N44605	FITTINGS (HEAT SINK)
2M 8	1	N45658	METER BRACKET
2H 9 2H10	2	N45656 N45453	ANGLE (HEAT SINK)
2M11	î	N45715	ANGLE S(HEAT SINK) ANGLE (SWITCH)
2H14	Ž	N45716	CUSION
2M15	2	N30896-85	HEAT SINK LOCK PLATE
2M16	1	N44236	
2M18	2	N42222-2	FITTINGS (THERMAL RELAY)
2M20	2	N45667	INSULATION PLATE
3 M11	2	N45335	LABEL-SERIAL NO.
3M13	ĩ	N44043	LABEL, SA1965(LIGHTNING FLASH)
	_		
48 1	2	T88+26X08-Y	TAP SCREW B. BIND HEAD, Y
4M 49M 5	3 2	TPPW07+26X08-1	TAP SCREW P-W ASSY,P HEAD,Y TAP SCREW S, BIND HEAD, B
4M 9~M23	34	TSB+30X06-Y	TAP SCREW S, BIND HEAD, Y
5M 1~M 3	5	TS8+30X06-B	TAP SCREW S. BIND HEAD, B
5M 7+M 8	. 3	TSB+30X08-B	TAP SCREW S+ BIND HEAD+ B
5K12,K13	12 11	TSS+30X08-Y TSC+30X08-Y	TAP SCREW S> FLAT HEAD> Y TAP SCREW S> WASHER FACED> Y
5M15~M18 5M20~M22	11	TBB+30X08-Y	TAP SCREW By BIND HEADY Y
5M23	20	T8A+30X14-Y	TAP SCREW By (FOR POWER IC)
5M25	1	TS8+30X08-Y	TAP SCREW S. BIND HEAD. Y
1	_		
6M 1	2	TPM+30X08-Y	TAP SCREW P. ROUND HEAD, Y
6M 5~M 8	8 4	TPM+30X10-8 TSB+40X06-B	TAP SCREW P. ROUND HEAD, B
6H11 6H13	4	TSP+40X10-B	TAP SCREW S. BIND HEAD, B TAP SCREW S. PAN HEAD, Y
6M15	4	TST+40X08-Y	TAP SCREW, TRUSS, Y
6M20	4	SSPS2+40X10-8	SCREW-SP ASSY, PAN HEAD, B
6M23	2	2AWX0826-05-B	PLAIN WASHER, 8
6M25	20	2AWX0830-05-Y	PLAIN WASHER, Y
FH701	1	FH-032C	FUSE HOLDER
TH301,302	2		A THERMAL RELAY
	20	AC262	MICA
10E 5,E 6	1	ACC-022E5-4EE	
10E22	ī	SR-4N-4	CORD STOPPER
10E30	1	R-040-11-15	CABLE ASS'Y

PACKING PARTS

REF. NO.	Q*TY	CARVER PART	NO. DESCRIPTION
MISCELLANEO	JS		-
3H 1	1	N41318-1	POLYETHYLENE BAG
3M 2	1	N40487	POLYETHYLENE BAG (ACCESSORIES)
3H 3	2	N21794	PACKING PAD
3M 6	1	N21793-1	INNER CARTON
3H 7	1	N45750	FRONT PAD
3M 8	1	N45752	PACKING PAD
3M12	ī	N42235	SHEET, SERIAL NUMBER
3M15	i	CARVER-WC	CARD WARRANTY REGISTRATION
3H16	1	0H-940A	INSTRUCTION MANUAL

REF. NO.	8 TY	CARVER	PART	NO.	DESCRIPTION
2P24	1				MAIN INPUT PCB ASS'Y
4P16	1				METER DRIVE PCB ASS'Y
4P23	1				INDICATOR PCB ASS'Y
9P30	1				MAIN AMP PEB ASS'Y
10P12	1				IDLING CURRENT PCB ASS'Y
	2P24 4P16 4P23 9P30	2P24 1 4P16 1 4P23 1 9P30 1			



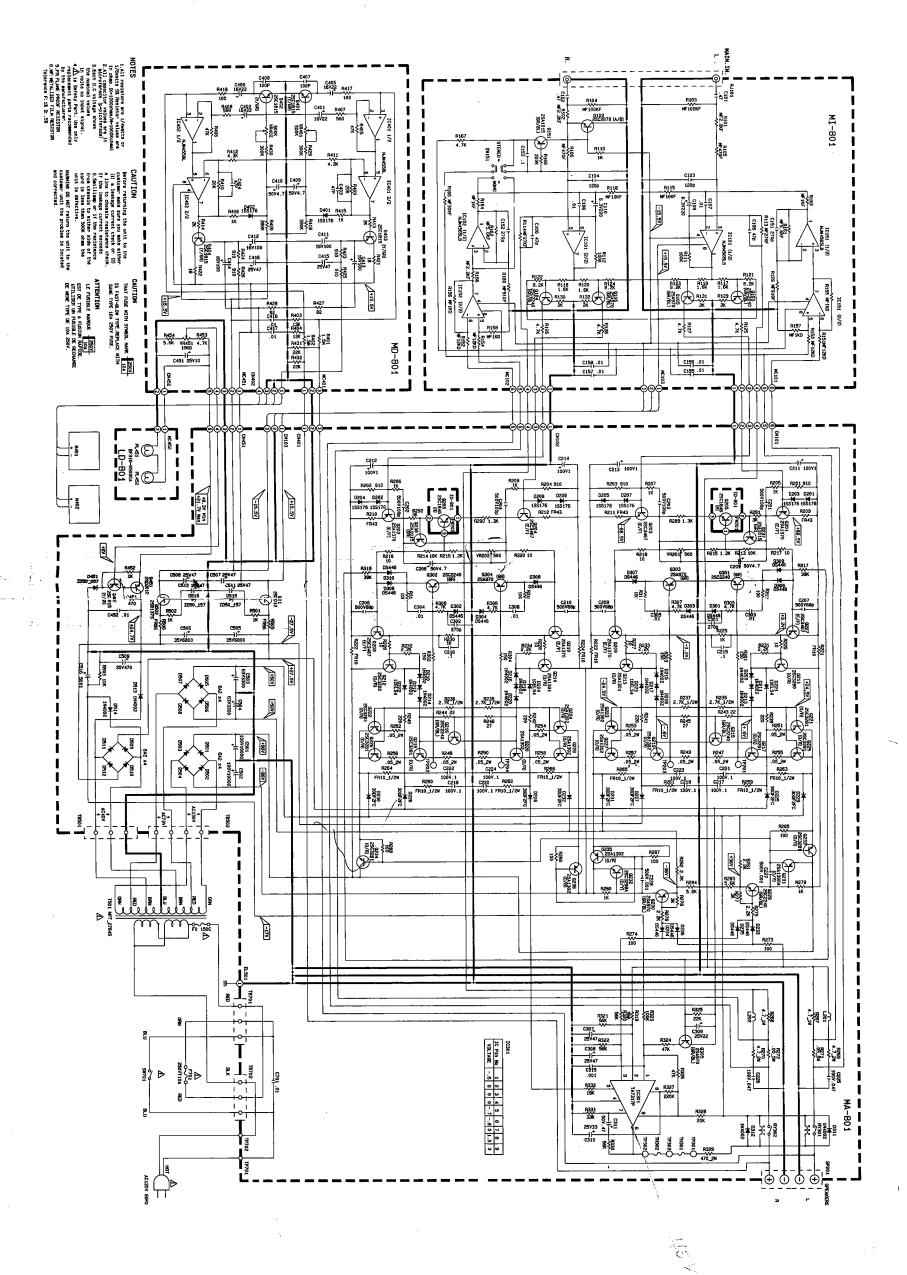


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SM-940 8912

CARVER CORPORATION SERVICE BULLETIN Service Bulletin # TFM-25-2 Model: TFM-25 Serial Nos. As Needed REASON: To prevent components from discoloring the Date: 4/15/92 PCB and to improve circuit reliability. DELETE ADD Qty 4 43 ohm 1/4W Flame Proof Resistor (R209-212) Qty 4 62 ohm 1/4W Flame Proof Resistor (R209-212) P/N FR25ST430J-LP P/N RM062-QJT 1kΩ 1/4W Carbon Resistor (R229,230) Qty 2 Qty 2 1.5kΩ 1/4W Carbon Resistor (R229,230) P/N KA25ST102J P/N 251-00074-00 22 ohm 1/4W Carbon Resistor (R243,244) Qty 2 22 ohm 1/4W Flame Proof Resistor (R243,244) Qty 2 P/N KA25ST220J P/N RM022-QJT 27 ohm 1/4W Carbon Resistor (R245,246) Qty 2 27 ohm 1/4W Flame Proof Resistor (R245,246) Qty 2 P/N KA25ST270J P/N RM027-OJT 2.7kΩ 1/2W Carbon Resistor (R235-238) Qty 4 P/N 251-10080-03 PROCEDURE If the predriver or driver transistors (Q201-204, Q207-210) have shorted or exhibit signs of discoloring the PC Board: Remove and replace Q201, Q202, Q209, Q210 (P/N 2SA1370-E,F), and remove and replace Q203, Q204, Q207, Q208 (P/N 2SC3467-E,F) with new transistors. Install the new transistors so they are 3/8" to 1/2" above the PCB. Replace R209-R212 43 ohm 1/4W flame proof resistors with 62 ohm 1/4W flame proof resistors. Replace R229, R230 1k Ω 1/4W resistors with 1.5k Ω 1/4W resistors. Replace R243, R244 with 22 Ω 1/4W flame proof resistors, and R245, R246 with 27 Ω 1/4W flame proof resistors. Verify that R235-R238 are 2.7kΩ 1/2W resistors (some units may have 1/4W resistors). NOTE: Lift all flame proof resistors 1/8"-1/4" off the PCB before soldering into place. Check idle current; reset if necessary (see Service Manual). C217 J19 DZ 25 J18 R249 TP203 C219 Left Channel Only Shown MA-801 Main Amp P.C.Board Service Approval Engineering 4-15-92