

DWG.No. JCM2-60-02.DGM

ignore layers 7

1

2

3

4

5

6

1

2

3

4

5

6

SAFETY CRITICAL COMPONENT
REPLACE ONLY WITH SAME
TYPE AND RATING.

POWER TRANSFORMER
COUNTRY IDENT:- A, B, C, D, E, H, K, S, T, U, V, X
STOCK No. TXMA-00061
PART No. D2105
COUNTRY IDENT:- M
STOCK No. TXMA-00066
PART No. D2179
COUNTRY IDENT:- J
STOCK No. TXMA-00062
PART No. D2135

STOCK NUMBER:- S167
PART No. 1310B5NN

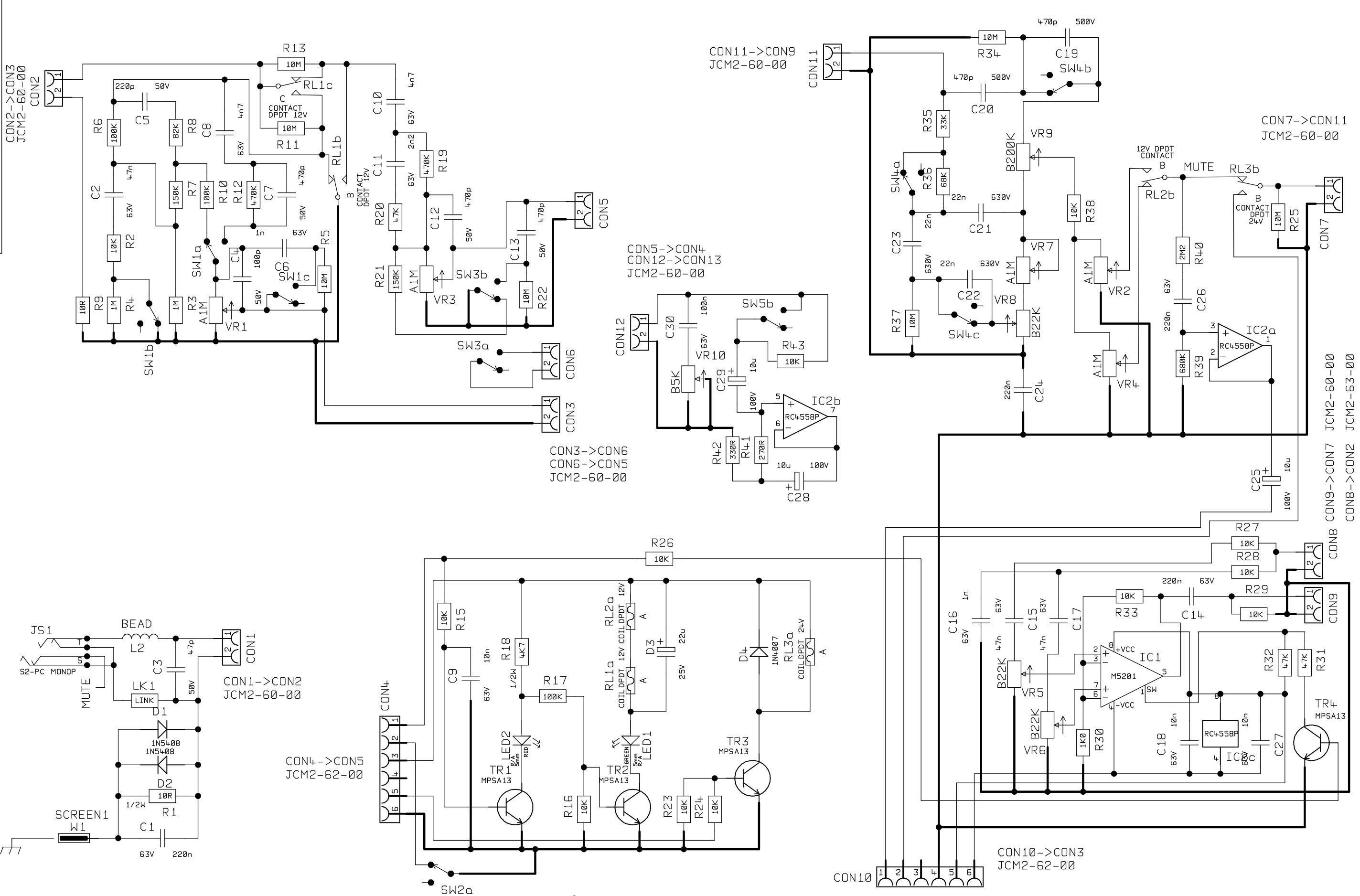
STOCK No. TXOP-00001
PART No. C3070

THIS CIRCUIT IS FOR PARTS LIST PURPOSES ONLY.
SCHEMATIC JCM2-68-02.DGM SHOULD BE USED FOR RATS NEST PURPOSES.

5	1565	14/9/98	ALL OTHER HOLES =				X = (THROUGH PLATED)				MATERIAL		DIMENSIONS IN		<div>Marshall</div> <div>© MARSHALL AMPLIFICATION PLC DENBIGH ROAD, BLETCHLEY, MILTON KEYNES, MK1 1DQ. TEL (01908) 375411 FAX (01908) 376118</div>	TITLE JCM2000 SUPERLEAD STANDARD	
4	1553	15/12/97	A			E			J			N					
3	1540	14/11/97	B			F			K			P					
2	1466	1/8/97	C			G			L			Q					
ISS	ECO NUMBER	DATE	D			H			M			R			MODEL DSL100	DWG.No JCM2-60-02.DGM	ISS 5

A B C D E F G H

DWG.No. JCM2-61-00.DGM



4			1786			16-3-99			A			E			J			N			MATERIAL			DIMENSIONS IN			 © MARSHALL AMPLIFICATION PLC DENBIGH ROAD, BLETCHLEY, MILTON KEYNES, MK1 1DQ. TEL (01908) 375411 FAX (01908) 376118			TITLE			JCM2000					
3			1553			15/12/97			B			F			K			P			MATERIAL THICKNESS			TOLERANCE (UNLESS UTHERVE STATED)						SUPERLEAD STANDARD								
2			1502			1/10/97			C			G			L			Q			DRAWN SG			DATE 24_2_97						ISS			4					
ISS			ECO NUMBER			DATE			D			H			M			R			CHECKED			DATE			MODEL			JCM2000			DWG.No			JCM2-61-00.DGM		
A			B			C			D			E			F			G			H																	

DWG.No. JCM2-62-02.DGM

JS5 NOT FITTED

WIRE LINKS TO BE FITTED:- LK2, LK5, LK6, LK8

WIRE LINKS TO BE OMITTED:- LK1, LK3, LK4, LK7



SEE JCM2-69-00.DGM FOR DESIGN SCHEMATIC

ALL OTHER DESIGNATIONS (EXCEPT REQUIRED LINKS) SHOULD BE UNFILLED

			ALL OTHER HOLES =										X = (THROUGH PLATED)										MATERIAL		DIMENSIONS IN		<div><p>© MARSHALL AMPLIFICATION PLC DENBIGH ROAD, BLETCHLEY, MILTON KEYNES, MK1 1DQ. TEL (01908) 375111 FAX (01908) 376118</p></div>				TITLE		JCM2000		6
			A			E				J				N			MATERIAL THICKNESS		TOLERANCE (UNLESS OTHERWISE STATED)		REAR OUTPUT PCB SCHEMATIC														
2	14-66	1/8/97	B			F				K				P			DRAWN SG		DATE 25-2-97																
1	PRODUCTION	20/6/97	C			G				L				Q			CHECKED		DATE		MODEL		DWG.No		ISS										
ISS	ECO NUMBER	DATE	D			H				M				R			APPROVED		DATE		DSL100/DSL50		JCM2-62-02.DGM		2										

Marshall

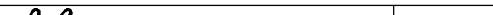
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DENBIGH ROAD, BLETCHLEY, MILTON KEYNES, MK1 1DG
TEL (01908) 375411 FAX (01908) 376118

DWG.No. JCM2-60-02.DGM

CON11->CON7
JCM2-61-00

CON13->CON12
JCM2-61-00

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4	1553	15/12/97	A				E					J				N			MATERIAL THICKNESS				TOLERANCE (UNLESS OTHERWISE STATED)				SUPERLEAD STANDARD															
3	1540	14/11/97	B				F					K				P			DRAWN		S.G		DATE		19/3/97																	
2	1466	1/8/97	C				G					L				Q			CHECKED				DATE				MODEL		DSL100													
ISS	ECO NUMBER	DATE	D				H					M				R			APPROVED				DATE																			

SAFETY CRITICAL COMPONENT
REPLACE ONLY WITH SAME
TYPE AND RATING.

POWER TRANSFORMER

COUNTRY IDENT:- A, B, C, D, E, H, K, S, T, U, V, X
STOCK No. TXMA-00061
PART No. D2105

COUNTRY IDENT:- M
STOCK No. TXMA-00066
PART No. D2179

COUNTRY IDENT:- J
STOCK No. TXMA-00062
PART No. D2135

STOCK NUMBER:- S167
PART No. 1310B5NN

STOCK No. TXOP-00001
PART No. C3070

OUTPUT TRANSFORMER

POWER TRANSFORMER

MARSHALL SERVICE BULLETIN

SUBJECT: Bias Info/Procedure for JCM2000 series Marshall amplifiers

THEORY OF OPERATION: We are setting the bias using the current method instead of cross over distortion method. The molex connector CON2 pin out as follows:

PR1: Bias mini-pot adjustment for pin1 and for two output tubes(100w) or one output tube(50w) or one side of the push/pull amp.

Pin1: Connected to the cathode of the output tube which then goes through a 1 ohm resistor then to ground.

Pin2: ground reference

Pin3: Same as pin1 but for the other side of the push/pull amp.

PR2: Bias mini-pot adjustment for pin3 and other side of the push/pull amp

PROCEDURE:

1. Make sure amplifier is connected to a load with the proper impedance selected.
2. Power up amplifier on STANDBY and let the circuit stabilize for a couple of minutes.
3. Locate the male three pin molex connector (CON2) with the two mini-pots (PR1 and PR2) on both ends found on the bottom of the tube bay.
4. Connect DMM (set to read mV) with alligator leads, reference common lead to center pin (pin2) on molex connector CON2 and positive lead to pin1 on CON2.
5. Take amplifier off of STANDBY with no signal, adjust mini-pot (PR1) closest to pin that the positive lead from your DMM is connected to and set it to the mV voltage that is listed in the chart below.
6. Repeat steps 4 & 5 for pin3 and until both pin1 and pin3 mV are the same.

BIAS CHART mV SETTINGS

(pin1 and pin3)

DSL50	45mV	TSL60/1/2	80mV
DSL100	90mV	DSL401	1.375V
TSL100/122	90mV	DSL201	.675V