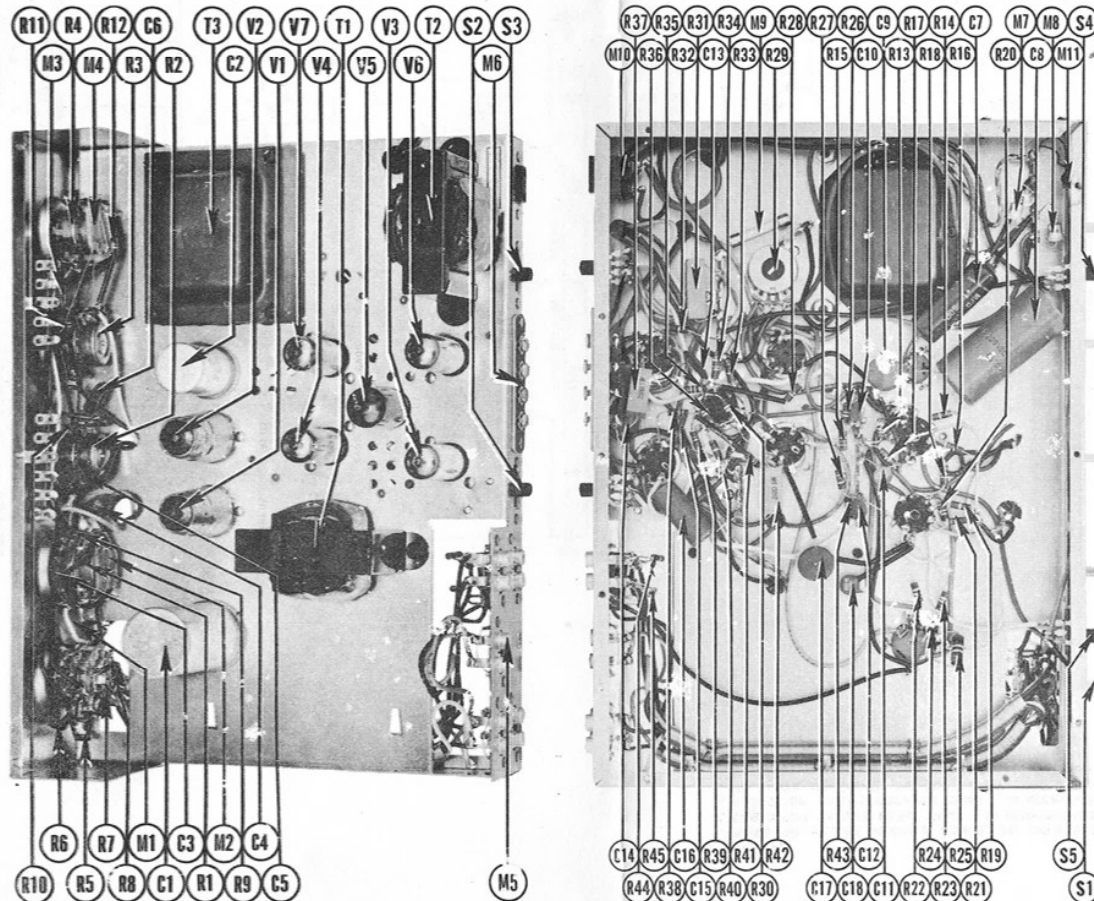




SERVICE MANUAL

20056 Amplifier

V-M CORPORATION SERVICE DEPARTMENT 72
375 W. Main St. • Benton Harbor • Michigan • U.S.A.



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
V1	22040	Tube 6EU7	C8	12192	Condenser, electrolytic 100 mfd / 200V
V2	22040	Tube 6EU7	C9	12074	Condenser, disc ceramic .022 mfd / 500V
V3	22016	Tube 6AQ5	C10	12048	Condenser, disc ceramic 100mmfd / 400V
V4	22016	Tube 6AQ5	C11	12048	Condenser, disc ceramic 100mmfd / 400V
V5	22040	Tube 6EU7	C12	12048	Condenser, disc ceramic 100mmfd / 400V
V6	22016	Tube 6AQ5	C13	12074	Condenser, disc ceramic .022 mfd / 500V
V7	22016	Tube 6AQ5	C14	23002	Condenser, 50 mfd / 25V
R1	12465	Control—Loudness	C15	12074	Condenser, disc ceramic .022 mfd / 500V
R2	12466	Control—Balance	C16	23002	Con. l. ser. 50 mfd / 25V
R3	12467	Control—Treble	C17	12074	Condenser, disc ceramic .022 mfd / 500V
R4	12467	Control—Bass	C18	12048	Condenser, disc ceramic 100 mmfd / 400V
R5	11333-10	Resistor, Carbon 50K ohm 1/2w	S1	12498	Function Switch
R6	11413-10	Resistor, Carbon 680K ohm 1/2w	S2	14235	Switch—channel B impedance
R7	11333-10	Resistor, Carbon 330K ohm 1/2w	S3	14235	Switch—channel A impedance
R8	11413-10	Resistor, Carbon 680K ohm 1/2w	S4	8220	Switch—Power
R9	11013-10	Resistor, Carbon 15K ohm 1/2w	S5	8220	Switch—(Mon.—Stereo)
R10	11013-10	Resistor, Carbon 15K ohm 1/2w	T1	12748	Transformer, Output
R11	11293-10	Resistor, Carbon 220K ohm 1/2w	T2	12748	Transformer, Output
R12	11293-10	Resistor, Carbon 220K ohm 1/2w	T3	12749	Transformer, Power
R13	11273-10	Resistor, Carbon 180K ohm 1/2w	M1	12697	Couplate
R14	10733-10	Resistor, Carbon 1K ohm 1/2w	M2	12697	Couplate
R15	10693-10	Resistor, Carbon 680 ohm 1/2w	M3	12698	Couplate
R16	11613-10	Resistor, Carbon 4.7 meg ohm 1/2w	M4	12698	Couplate
R17	11293-10	Resistor, Carbon 220K ohm 1/2w	M5	18339	Double Phono Socket
R18	11253-10	Resistor, Carbon 150K ohm 1/2w	M6	14236	Binding Post—4 Terminal
R19	10733-10	Resistor, Carbon 1K ohm 1/2w	M7	12696	Rectifier, Silicon 500 ma.
R20	11253-10	Resistor, Carbon 150K ohm 1/2w	M8	12696	Rectifier, Silicon 500 ma.
R21	11613-10	Resistor, Carbon 4.7 meg ohm 1/2w	M9	8635	Fuse—3A
R22	11273-10	Resistor, Carbon 180K ohm 1/2w	M10	4646	AC Receptacle
R23	11293-10	Resistor, Carbon 220K ohm 1/2w	M11	22566	Pilot Light
R24	10734-10	Resistor, Carbon 1K ohm 1w	4664		Terminal Strip (T-TB6)
R25	10974-10	Resistor, Carbon 10K ohm 1w	5884		Terminal Strip (TB6—2T)
R26	11013-10	Resistor, Carbon 15K ohm 1/2w	9927		Terminal Strip—6 lug (2T—TB6—3T)
R27	10693-10	Resistor, Carbon 680 ohm 1/2w	18570		Terminal Strip (2T—TB6—2T)
R28	11293-10	Resistor, Carbon 220K ohm 1/2w	1,664		Terminal Strip (4T—TB6—2T)
R29	12345	Control—hum balance	26801		Terminal Strip—3 lug (T—TB6—T)
R30	11293-10	Resistor, Carbon 220K ohm 1/2w	5040		Grommet
R31	12330	Resistor, Sand & Cement 1000 ohm 5w	8203		Socket—9 pin (Shield)
R32	10253-10	Resistor, Carbon 10 ohm 1/2w	14286		Shield—Hum
R33	10734-10	Resistor, Carbon 1K ohm 1/2w	14796		Locknut
R34	11133-10	Resistor, Carbon 47K ohm 1/2w	15138		Socket—9 pin
R35	11313-10	Resistor, Carbon 270K ohm 1/2w	15407-A		Screw—Black
R36	11293-10	Resistor, Carbon 220K ohm 1/2w	821		Strain Relief (Heyco)
R37	12369-10	Resistor, W. W. 200 ohm 5w	68-108		Line Cord (Brown)
R38	11313-10	Resistor, Carbon 270K ohm 1/2w	10658		Pin Nut
R39	11133-10	Resistor, Carbon 47K ohm 1/2w	19128		Heat Shield
R40	10734-10	Resistor, Carbon 1K ohm 1/2w	21743-A		Screw
R41	11293-10	Resistor, Carbon 220K ohm 1/2w	23549		Shield, Tube
R42	12369-10	Resistor, W. W. 200 ohm 5w	26841		Tube Socket—7 pin
R43	11013-10	Resistor, Carbon 15K ohm 1/2w			
R44	11293-10	Resistor, Carbon 220K ohm 1/2w			
R45	11293-10	Resistor, Carbon 220K ohm 1/2w			
C1	23017	Condenser, 80-50-30 mfd / 350V			
C2	12193	Condenser, 100 mfd / 200V can type			
C3	12083	Condenser, disc ceramic .005 mfd / 600V			
C4	12083	Condenser, disc ceramic .005 mfd / 600V			
C5	12074	Condenser, disc ceramic .02 mfd / 500V			
C6	12074	Condenser, disc ceramic .022 mfd / 500V			
C7	12053	Condenser, Tubular .1 mfd / 500V			

IMPORTANT—For best results use only V-M factory approved service parts.

"Known for the finest in Record Changers, Phonographs, and Tape Recorders"

20056
17459-8-62

NOTES:

1. RESISTOR VALUES IN OHMS $1/2W \pm 10\%$ UNLESS OTHERWISE NOTED.
2. CAPACITOR VALUES LESS THAN 1, IN MICROFARADS UNLESS OTHERWISE NOTED.
3. CAPACITOR VALUES GREATER THAN 1, IN MICROMICROFARADS UNLESS OTHERWISE NOTED.
4. VOLTAGES MEASURED TO GROUND AT ZERO SIGNAL WITH A V.T.V.M AND MAY VARY $\pm 15\%$.
5. FUNCTION SWITCH SHOWN IN EXTREME C.C.W. POSITION.

