

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA						NOTES
	PRI.	SEC.	GFI/ULC/ESTIC PART No.	Heildorson PART No.	Merit PART No.	Ram PART No.	Stancor PART No.	Thorderson PART No.	
T2	530002	5Ω	9066-047						
	Tap@	Tap							
	500002	3Ω							
	and								
	150002								

SPEAKER

ITEM No.	TYPE		REPLACEMENT DATA		NOTES
	SIZE	FIELD	Grain Size PART No.	QUAM PART No.	
SP1	8" x 12"	PM	7046-001		
SP2	3" x 3"	Electrostatic	7082-002		
SP3	3" x 3"	Electrostatic	7082-002		

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		Grand Majestic PART No.	Meissner PART No.	Merit PART No.	Miller PART No.	Rom PART No.	
L1	FM Ant. Trans.	BY1974					1.5 Microhenries Wound on 100Ω resistor
L2	RF Choke	BY1975	19-1001	BC-562	4604		
L3	RF Choke	BY1956					2.85 Microhenries
L4	FM RF Coll	9208-025					
L5	FM Osc. Coll	9208-024					
L6	RF Choke	BY1976					
L7	Loopstick	FA9238-013					
L8	BC Ant. Coll	BY1711					
L9	IF Trap Coll	9208-055					5.9MC - 13MC
L10	SW1 Ant. Coll	9231-003					12.9MC - 23MC
L11	SW2 Ant. Coll	9232-005					
L12	BC Osc. Coll	BY1831					
L13	SW1 Osc. Coll	9232-002					5.9MC - 13MC
L14	SW2 Osc. Coll	9232-006					12.9MC-23MC
L15	Canon Res	BY1957	19-1000	BC-561	4602		1.25 Microhenries
L16	1st FM IF Pk.	BY1977					
L17	1st FM IF Sec.	BY1978					
L18A	2nd FM IF	FT 7207-325					
L18B	2nd AM IF						
L19A	Ratio Detector	FT 7207-317					1.2 Microhenries
L20	RF Choke	BV-2143	19-1000	BC-561	4602		
L21	Tone Choke	9217-009					1.5 Microhenries
L22	Fil. Choke	9238-028					17 Microhenries
L23	Line Choke	9227-004					15 Microhenries
L24	Line Choke	9227-005					

SELENIUM RECTIFIER

ITEM No.	RATING CURRENT (Measured)	REPLACEMENT DATA				NOTES
		Grundig Majestic PART No.	FEDERAL PART No.	INTERNATIONAL PART No.	SARKES TARZIAN PART No.	
M1	.063A	B950C75N2	6L-4037	D-64 ①	① Silicon Type; add 15Ω (MINIMUM) resistor in series	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			Grundig Majestic PART No.		Interfuse PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M2		0.6A 110V S/B	0.6A 110V *					
M3		0.5A 110-220V S/B	0.5A 110-220V					

* 0.3A Fuse used with 220VAC source.

PHONO CARTRIDGE

ITEM No.	REPLACEMENT DATA					REMARKS
	Grundig Mailetic PART No.	ASTATIC		JENSEN		
		CARTRIDGE	NEEDLE	CARTRIDGE	NEEDLE	
M4		55-T or 81-TB	GD-J			

ASTATIC NEEDLE LISTING SHOWN ABOVE IS SPECIFIED FOR THE RESPECTIVE REPLACEMENT CARTRIDGE LISTED. FOR ORIGINAL CARTRIDGE NEEDLE REPLACEMENTS SEE BELOW.

PHONO NEEDLE

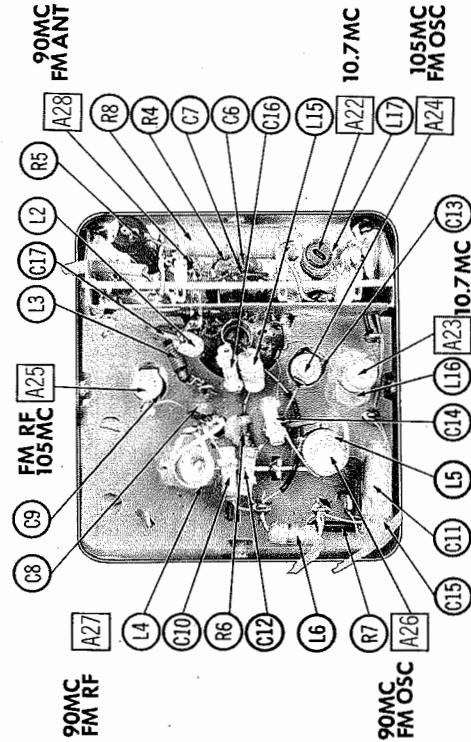
(FOR REPLACEMENT IN ORIGINAL EQUIPMENT CARTRIDGE)				
ITEM No.	Grundig Majestic PART No.	REPLACEMENT DATA		REMARKS
		JENSEN PART No.	WALCO PART No.	
M5		† S-66 or † S-66SD or † S-66D	† W-75TPS or † W-75DS or † W-75TPD	† Jewel † Diamond

MISCELLANEOUS

ITEM No.	PART NAME	Grundig Majestic PART No.	NOTES
M6	Lamp		TV, 0.3A
M7	Lamp		TV, 9.3A
M8	Tuning Cap.	9653-407	4 Gang (AM Sections: 11.5-331.5mmf, Osc. 11.5-411.5mmf)
M9	Switch	9227-004	Power On-Off (SPST, Slide Actuated Type)
M10	Switch		Function (Press Block, Slide Type)
M11	Switch	7612-011	Volume-Music (SPDT, Slide Type)

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors
	8524 (Stranded) Available in Ten Colors
Power Cord	Use BELDEN No. 1765-B (6 Ft. Length) 1725-K (7½ Ft. Length)
Low-Loss Shielded Lead (Interconnecting)	Use BELDEN No. 8401
Phone Pick-up Arm Cable	Use BELDEN No. 8430 (Two Conductor - Twisted)



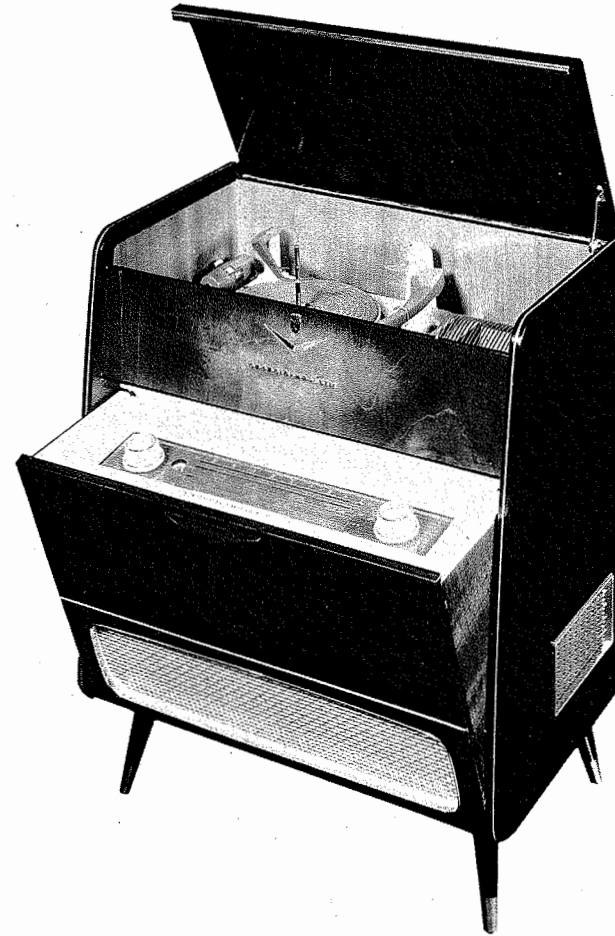
SUB CHASSIS

FOLDER 7
SET 442

PHOTOFACT* Folder



GRUNDIG MAJESTIC MODEL 7018



**GRUNDIG MAJESTIC
MODEL 7018**

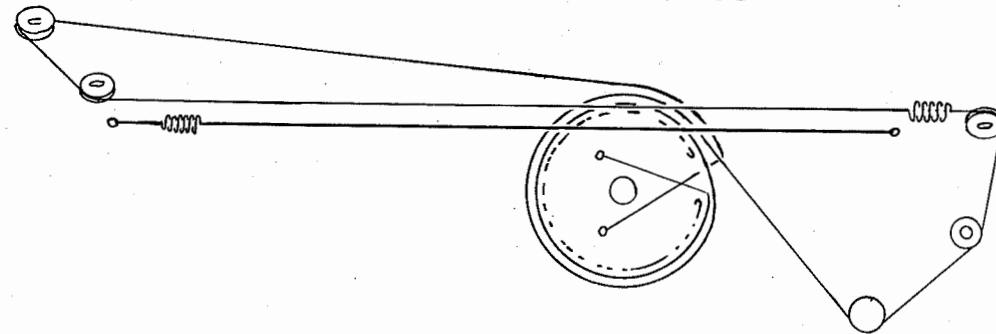
**GRUNDIG MAJESTIC
MODEL 7018**

SET 442 FOLDER 7

TRADE NAME	Grundig Majestic Model 7018			
SUPPLIER	Majestic International Sales Corp., 743 W. LaSalle St., Chicago 10, Illinois			
TYPE SET	AC Operated 6 Tube FM-BC-SW Receiver With 4 Speed Automatic Record Changer			
POWER SUPPLY	110-120 (or) 220 Volts AC, 60 Cycles	RATING	56 Watts, .56 Amp 117 Volts AC (FM)	
TUNING RANGES	BROADCAST 540-1620KC FREQ. MOD. 88-108MC	SHORT WAVE I	5.9-13MC	
		SHORT WAVE II	12.9-23MC	

FOR SERVICE INFORMATION ON RECORD CHANGER - SEE SIMILAR MONARCH UA8 - PHOTOFACT SET 381 FOLDER 11

DIAL CORD STRINGING

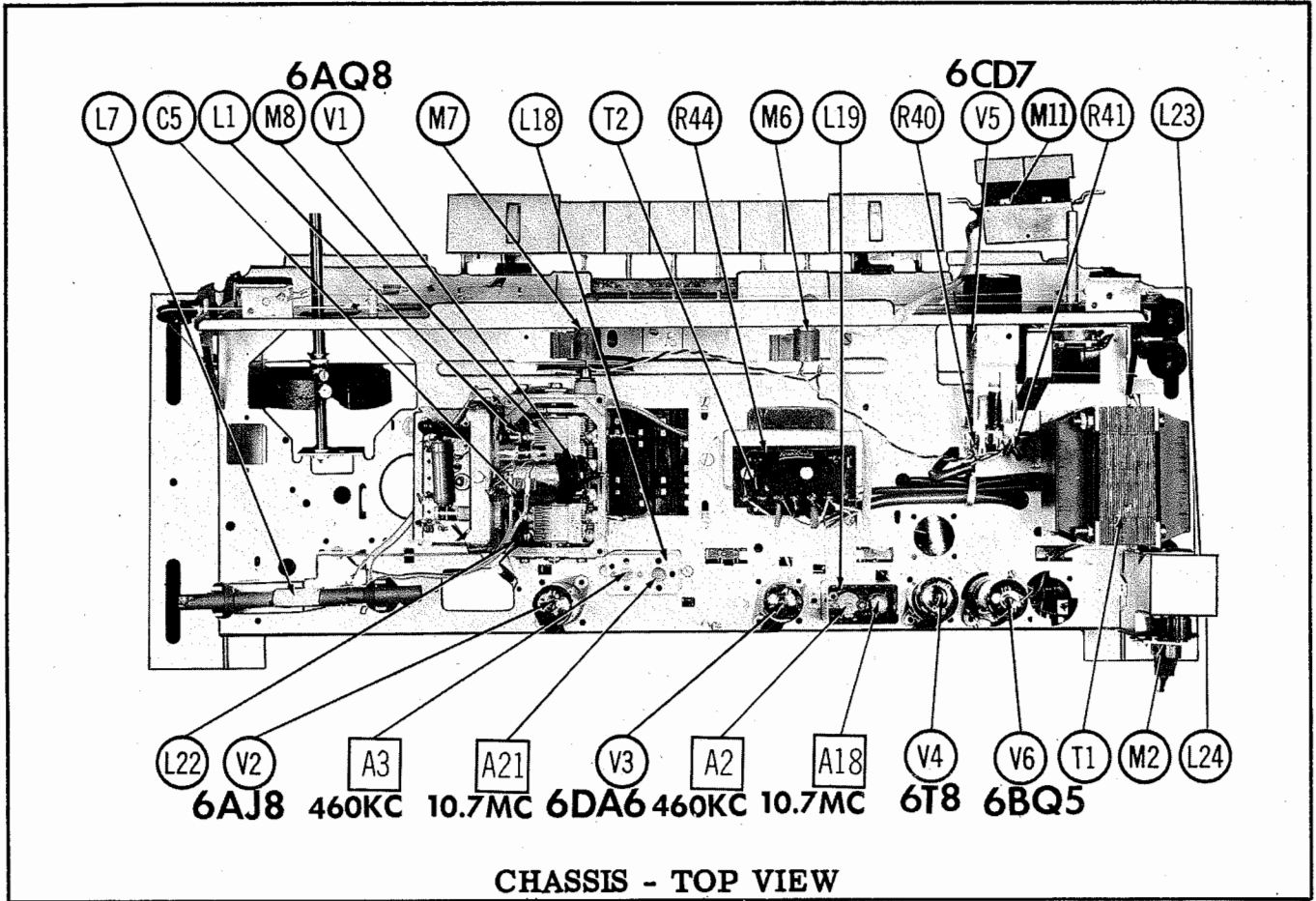
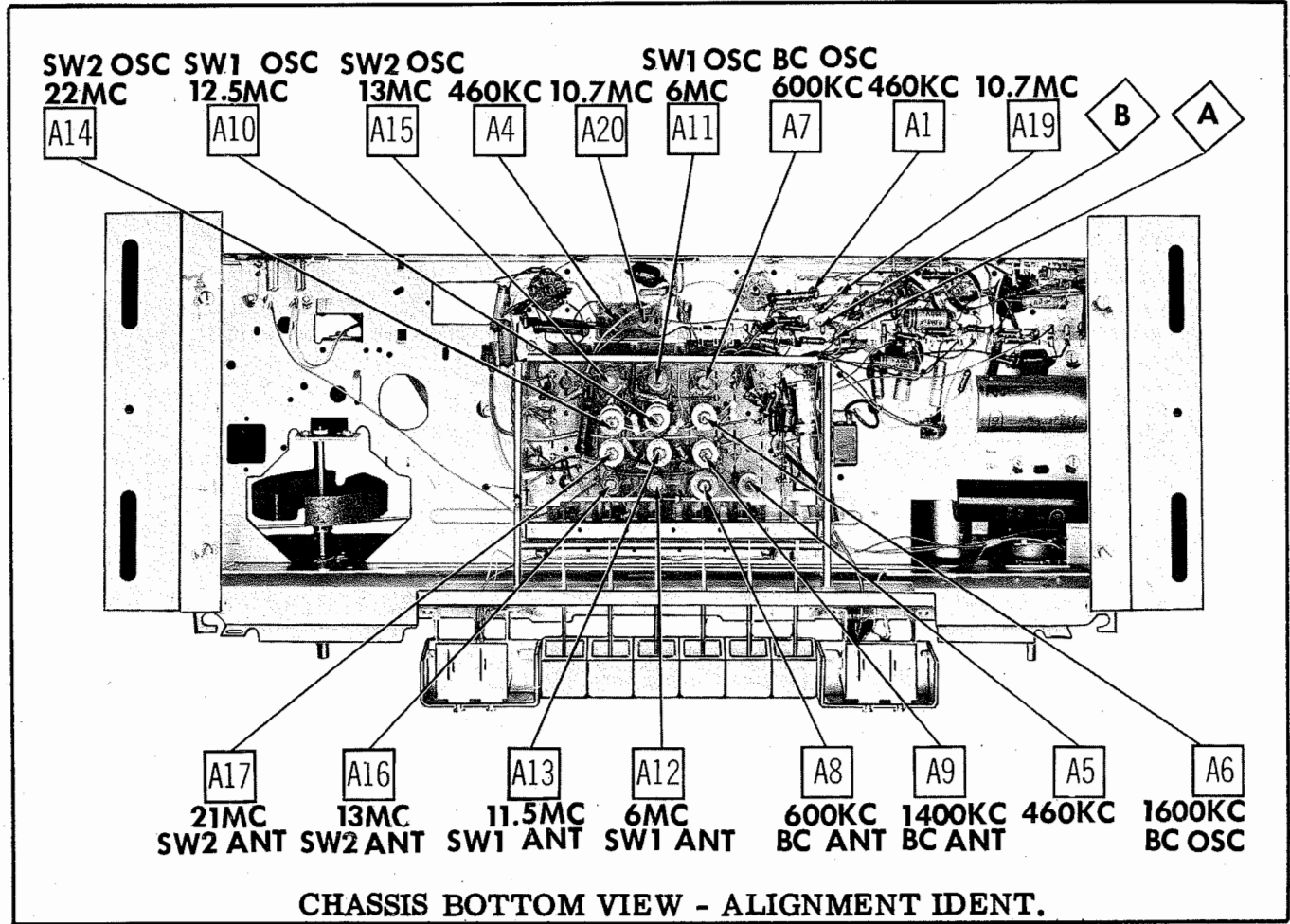


HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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PARTS LIST AND DESCRIPTIONS
TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE
V1	FM RF Amp. - FM Conv.	ECC85/6AQ8 ①
V2	1st FM IF Amplifier	ECH81/6AJ8 ①
V3	AM Mixer - AM Osc.	EF89/6DA6 ①
V4	Ratio Det. - AM Det. - AVC - AF Amplifier	EABCB80/6T8 ①
V5	Tuning Indicator	EM34/BCD7 ①
V6	Output	EL84/BBQ5 ①

① Domestic type listed may not be directly interchangeable in some instances.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA	TYPE	NOTES
C1A	50	CORNELL-DUBIER PART No.	TYLS-2646 *	
C2	50	BR5035	TMS-58	
C3	4	PR5150V4	TD-50-450	
C4	50	PR525V50	TD-4-150	
C5	50	PR525V50	TD-50-25	
C6	15	PR525V50	TD-50-25	

* Not normally in distributors stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA	NOTES
C5	18	CORNELL-DUBIER PART No.	SGA-Q18
C6	1	UC-5418	STCCB-V1
C7	1	UC-5418	STCCB-V1
C8	220	UC-5418	STCCB-V1
C9	2-1.3	UC-5418	STCCB-V1
C10	36	UC-5418	STCCB-V1
C11	130	UC-5418	STCCB-V1
C12	18	UC-5418	STCCB-V1
C13	5-4	UC-5418	STCCB-V1
C14	15	UC-5418	STCCB-V1
C15	1000	UC-5418	STCCB-V1
C16	30	UC-5418	STCCB-V1
C17	1	UC-5418	STCCB-V1
C18	47	UC-5418	STCCB-V1
C19	35	UC-5418	STCCB-V1
C20	35	UC-5418	STCCB-V1
C21	660	UC-5418	STCCB-V1
C22	95	UC-5418	STCCB-V1
C23	820	UC-5418	STCCB-V1
C24	270	UC-5418	STCCB-V1
C25	270	UC-5418	STCCB-V1
C26	270	UC-5418	STCCB-V1
C27	0.047	UC-5418	STCCB-V1
C28	0.0022	UC-5418	STCCB-V1
C29	0.0022	UC-5418	STCCB-V1
C30	47	UC-5418	STCCB-V1
C31	150	UC-5418	STCCB-V1
C32	10	UC-5418	STCCB-V1
C33	10	UC-5418	STCCB-V1
C34	10	UC-5418	STCCB-V1
C35	35	UC-5418	STCCB-V1
C36	35	UC-5418	STCCB-V1
C37	450	UC-5418	STCCB-V1
C38	800	UC-5418	STCCB-V1
C39	800	UC-5418	STCCB-V1
C40	0.047	UC-5418	STCCB-V1
C41	47	UC-5418	STCCB-V1
C42	1	UC-5418	STCCB-V1
C43	0.0068	UC-5418	STCCB-V1
C44	8200	UC-5418	STCCB-V1
C45	8200	UC-5418	STCCB-V1
C46	1	UC-5418	STCCB-V1
C47	100	UC-5418	STCCB-V1
C48	820	UC-5418	STCCB-V1

CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA	NOTES
C49	47	1468-00047	1FM-447
C50	47	1468-00047	1FM-347
C51	47	1468-00047	1FM-347
C52	150	1468-00047	1FM-347
C53	270	1468-00047	1FM-347
C54	250	1468-00047	1FM-347
C55	250	1468-00047	1FM-347
C56	250	1468-00047	1FM-347
C57	250	1468-00047	1FM-347
C58	250	1468-00047	1FM-347
C59	250	1468-00047	1FM-347
C60	500	1468-00047	1FM-347
C61	500	1468-00047	1FM-347
C62	500	1468-00047	1FM-347

* Not normally in distributors stock. Available thru distributor on order to manufacturer.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA	INSTALLATION NOTES
R1A	1.3meg	7801-038	Volume, Tap @ 250K
R2	5meg	7806-182	Bas
R3	5meg	7800-180	Treble

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA	NOTES
R4	470K	7801-038	
R5	68000	7806-182	
R6	18000	7800-180	
R7	1meg		
R8	1K		
R9	10000		
R10	1meg		
R11	33K		
R12	560		
R13	13K		
R14	150		
R15	500		
R16	220K		
R17	1000		
R18	56K		
R19	47000		
R20	22K		
R21	2700		
R22	2700		
R23	2.2meg		
R24	150K		
R25	330K		
R26	1.6meg		

All wattages 1/2 watt, or less, unless otherwise listed.

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA	Triad PART No.
T1	220V Tap @ 115V @ 5A	9078-024	

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.
Suggested Alignment Tools: A1 thru A5, A7, A9, A11, A13, A15,
A17 thru A23, A25, A27, A28..... GENERAL CEMENT #8282, 8608, 8608L, 9091
WALSCO #2528, 2541, 2543, 2544
A24, A26..... GENERAL CEMENT #5009, 8195, 8274, 8275, 8728, 8987
WALSCO #2531

AM ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1. .01mfd	High side to pin 2 (grid) of ECH81 (V2). Low side to chassis.	460KC (400v Mod.)	BC	Tuning gang fully open	Across voice coil	A1, A2, A3, A4	Adjust for maximum deflection.
2. "	High side to AM antenna terminal. Low side to chassis.	"	"	"	"	A5	Adjust for MINIMUM deflection.
3. "	"	1600KC	"	1600KC	"	A6	Adjust for maximum deflection.
4. "	"	600KC	"	600KC	"	A7, A8	Adjust for maximum deflection. Repeat steps 3 and 4.
5. "	"	1400KC	"	1400KC	"	A9	Adjust for maximum deflection.
6. 200mmf	"	12.5MC	SWI	12.5MC	"	A10	Adjust for maximum deflection.
7. "	"	6.0MC	"	6.0MC	"	A11, A12	Adjust for maximum deflection. Repeat steps 6 and 7.
8. "	"	11.5MC	"	11.5MC	"	A13	Adjust for maximum deflection.
9. "	"	22.0MC	SWII	22.0MC	"	A14	Adjust for maximum deflection.
10. "	"	13.0MC	"	13.0MC	"	A15, A16	Adjust for maximum deflection. Repeat steps 9 and 10.
11. "	"	21.0MC	"	21.0MC	"	A17	Adjust for maximum deflection.

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

Connect two matched 100K ($\pm 1\%$) resistors in series from point Δ to chassis. The junction of these two resistors is alignment point \diamond as shown on the schematic.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
12. 200mmf	High side to pin 2 (grid) of EF89 (V3). Low side to chassis.	10.7MC (Unmod.)	FM	Point of non-interference	DC probe to point Δ . Common to chassis.	A18	Adjust for maximum deflection.
13. "	"	"	"	"	DC probe to point \diamond . Common to point Δ .	A19	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
14. "	High side to pin 7 (grid) of ECC85 (V1). Low side to chassis.	"	"	"	DC probe to point Δ . Common to chassis.	A20, A21, A22, A23	Adjust for maximum deflection.

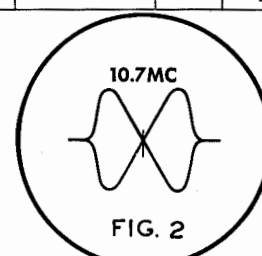
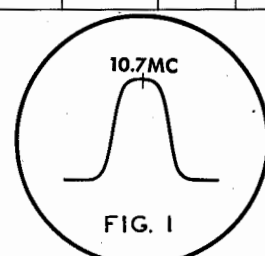
FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120v sawtooth voltage in scope for horizontal deflection.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
12. 200mmf	High side to pin 2 (grid) of EF89 (V3). Low side to chassis.	10.7MC (450KC Swp)	FM	Point of non-interference	Vert. Amp. to point Δ . Low side to chassis.	A18	Disconnect stabilizing capacitor C2. Adjust for curve of maximum amplitude and symmetry similar to Fig. 1.
13. "	"	"	"	"	Vert. Amp. to point \diamond . Low side to chassis.	A19	Reconnect stabilizing capacitor C2. Adjust so that 10.7MC occurs at center of crossover lines similar to Fig. 2. SLIGHTLY retouch A18 for maximum amplitude and straightness of crossover lines.
14. "	High side to pin 7 (grid) of ECC85 (V1). Low side to chassis.	"	"	"	Vert. Amp. to point Δ . Low side to chassis.	A20, A21, A22, A23	Disconnect C2. Adjust for curve of maximum amplitude and symmetry similar to Fig. 1. Reconnect C2.

FM RF ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
15. 2700 Carbon Resistor	Across FM antenna leads with 2700 in high side.	105MC (Unmod.)	FM	105MC	DC probe to point Δ . Common to chassis.	A24, A25	Adjust for maximum deflection.
16. "	"	90MC	"	90MC	"	A26, A27, A28	Adjust for maximum deflection. Repeat steps 15 and 16.



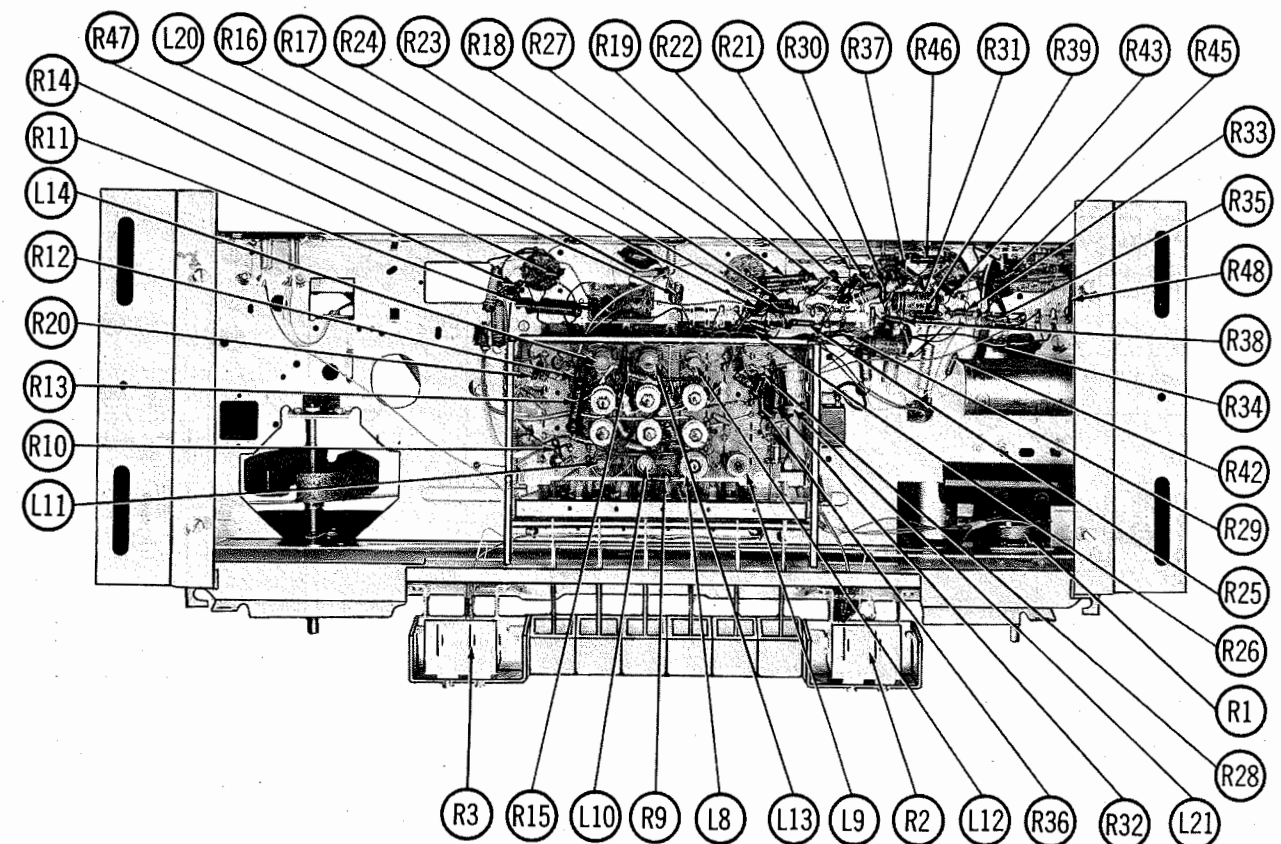
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FOLDER 7

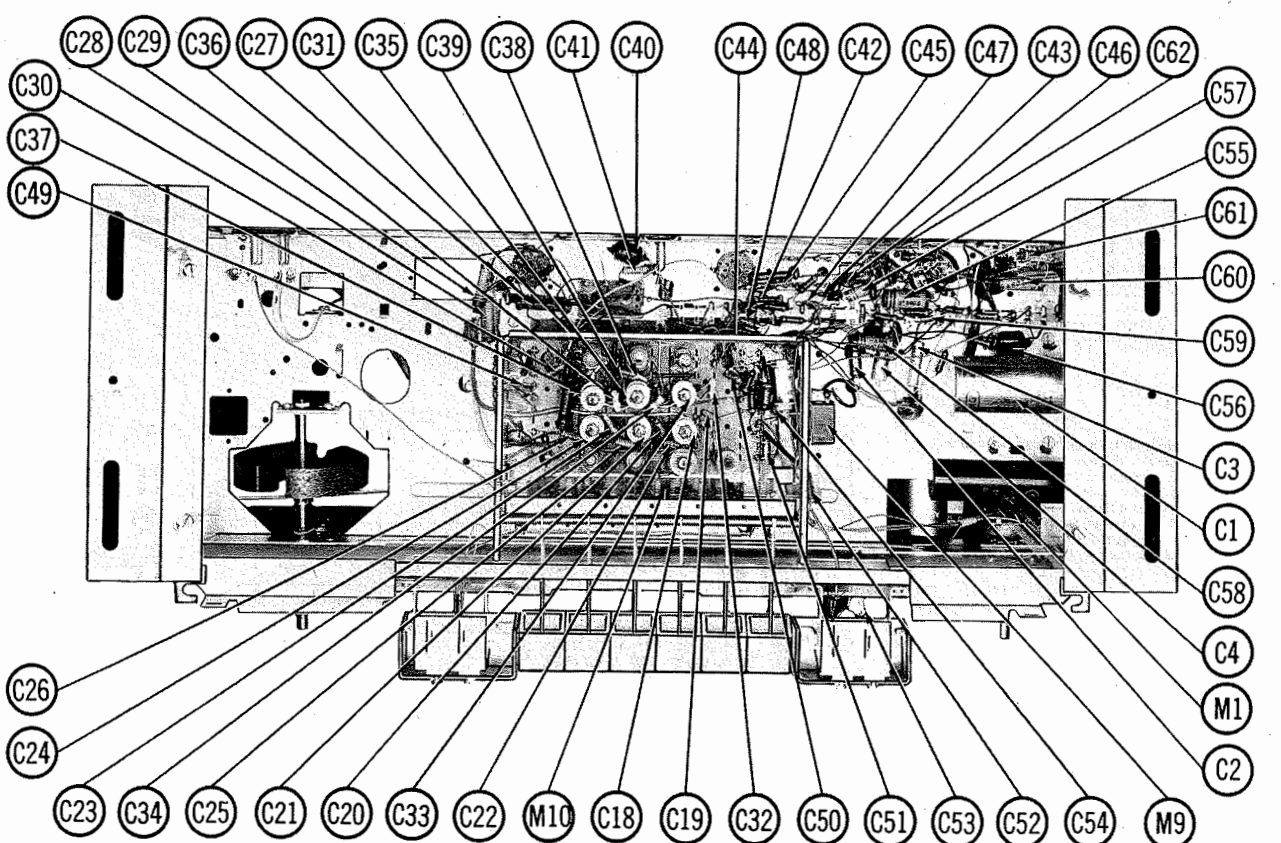
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GRUNDIG MAJESTIC
MODEL 7018

FOLDER 7

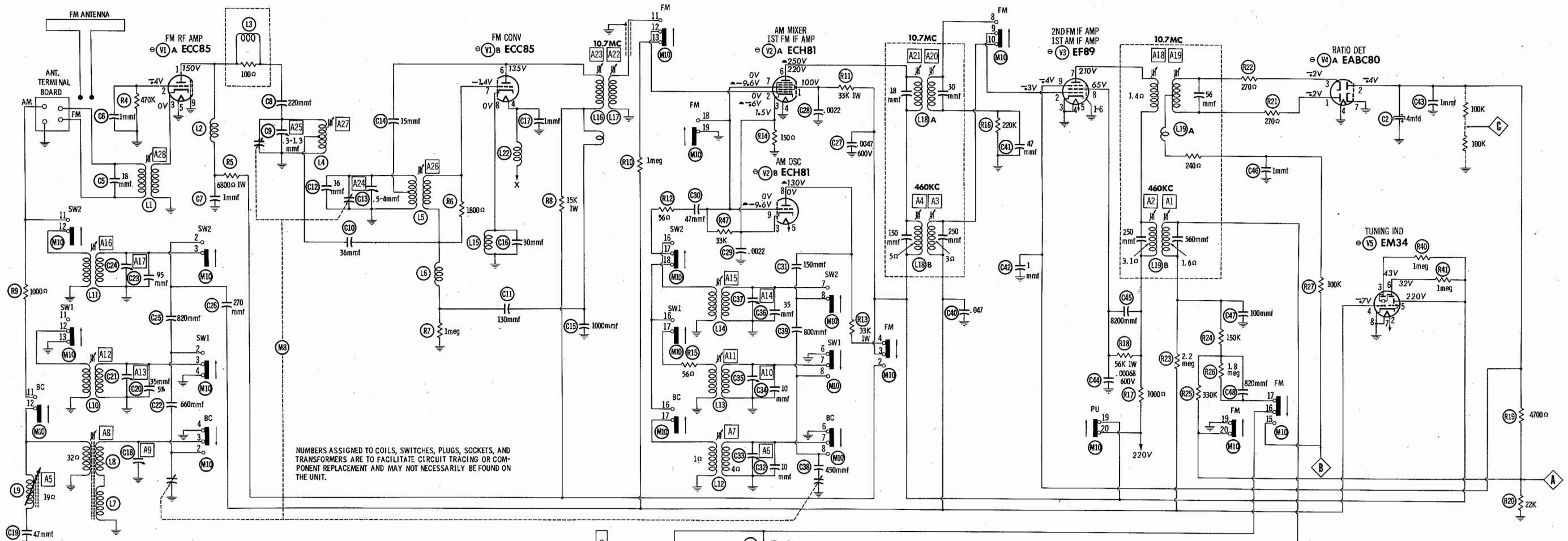


CHASSIS BOTTOM VIEW - RESISTOR & INDUCTOR IDENT.

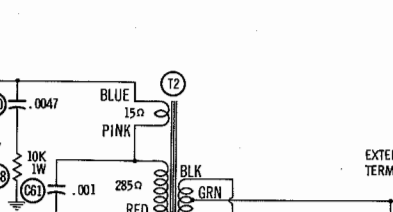
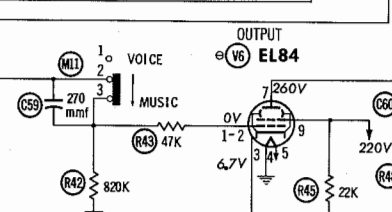
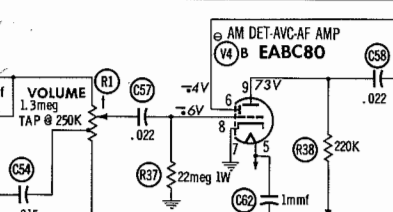
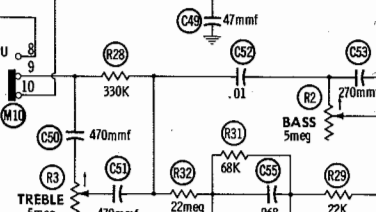
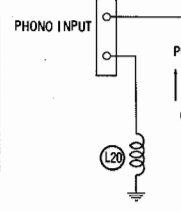
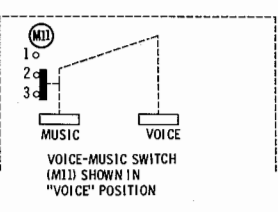
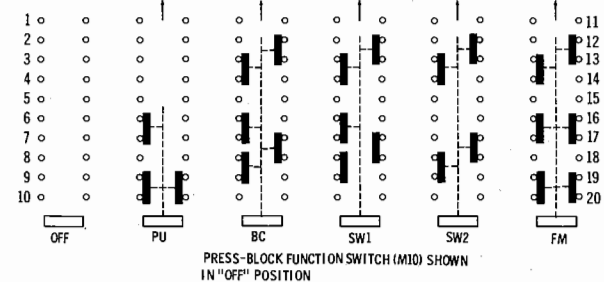


CHASSIS BOTTOM VIEW - CAPACITOR & MISC. IDENT.

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NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.



ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	ECC85	18100Ω	470K	0Ω	.1Ω	0Ω	16K	1meg	.1Ω	0Ω
V2	ECH81	134K	.5Ω	150Ω	0Ω	.1Ω	1300Ω	0Ω	1N	0Ω
V3	EF89	0Ω	220K	0Ω	0Ω	.1Ω	0Ω	12500Ω	158K	27K
V4	EABC80	22meg	27K	22meg	0Ω	.1Ω	500K	0Ω	22K	140K
V5	EM34	NC	.1Ω	1meg	2.7meg	1300Ω	1meg	0Ω	0Ω	0Ω
V6	EL84	870K	870K	170Ω	0Ω	.1Ω	NC	1300Ω	NC	1500Ω

ALL MEASUREMENTS TAKEN IN "FM" POSITION UNLESS OTHERWISE DESIGNATED.
 * MEASURED IN "AM" POSITION.
 † MEASURED FROM OUTPUT OF M1.
 NC NO CONNECTION

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
 2. Socket connections are shown as bottom views.
 3. Measured values are from socket pin to common negative.
 4. Line voltage maintained at 117 volts for voltage readings.
 5. Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
 6. Volume control at maximum, no signal applied for voltage measurements.
- SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
- DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM
- ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)