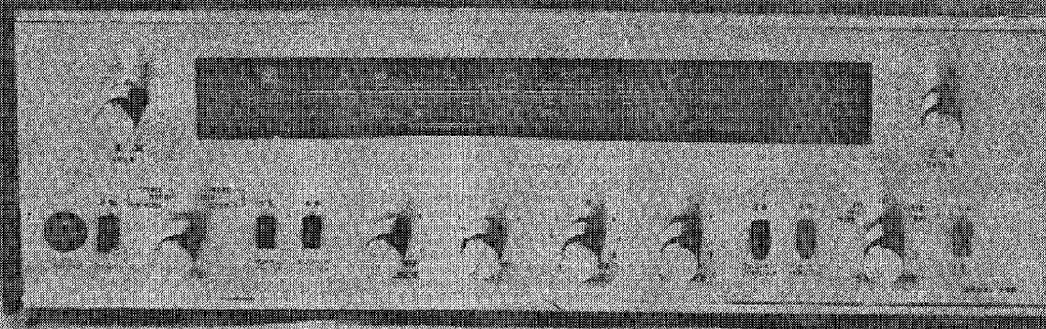


SANSUI
FM-MULTIPLY
STEREOPHONIC
AMPLIFIER



SERVICE MANUAL

PARTS LIST

Part No	Nomenclature
R ₁	150KΩ ¼Watt 10% Carbon Fixed Resistor
R ₂	47KΩ ¼Watt 10% Carbon Fixed Resistor
R ₃	10KΩ ¼Watt 10% Carbon Fixed Resistor
R ₄	68Ω ¼Watt 10% Carbon Fixed Resistor
R ₅	5KΩ 1Watt 10% Carbon Fixed Resistor
R ₆	4KΩ 2Watt 10% Carbon Fixed Resistor
R ₇	68Ω ¼Watt 10% Carbon Fixed Resistor
R ₈	4KΩ 2Watt 10% Carbon Fixed Resistor
R ₉	50KΩ ¼Watt 10% Carbon Fixed Resistor
R ₁₀	2MΩ ¼Watt 10% Carbon Fixed Resistor
R ₁₁	15KΩ ¼Watt 10% Carbon Fixed Resistor
R ₁₂	15KΩ 1Watt 10% Carbon Fixed Resistor
R ₁₃	100KΩ ¼Watt 10% Carbon Fixed Resistor
R ₁₄	1KΩ ¼Watt 10% Carbon Fixed Resistor
R ₁₅	1KΩ ¼Watt 10% Carbon Fixed Resistor
R ₁₆	100KΩ ¼Watt 10% Carbon Fixed Resistor
R ₁₇	250KΩ ¼Watt 10% Carbon Fixed Resistor
R ₁₈	2MΩ ¼Watt 10% Carbon Fixed Resistor
R ₁₉	500KΩ ¼Watt 10% Carbon Fixed Resistor
R ₂₀	500KΩ ¼Watt 10% Carbon Fixed Resistor
R ₂₁	20KΩ ¼Watt 10% Carbon Fixed Resistor
R ₂₂	50Ω ¼Watt 10% Carbon Fixed Resistor
R ₂₃	68Ω ¼Watt 10% Carbon Fixed Resistor
R ₂₄	2MΩ ¼Watt 10% Carbon Fixed Resistor
R ₂₅	5KΩ 1Watt 10% Carbon Fixed Resistor
R ₂₆	50KΩ ¼Watt 10% Carbon Fixed Resistor
R ₂₇	100KΩ ¼Watt 10% Carbon Fixed Resistor
R ₂₈	250KΩ ¼Watt 10% Carbon Fixed Resistor
R ₂₉	1MΩ ½Watt 10% Carbon Fixed Resistor
R ₃₀	1MΩ ½Watt 10% Carbon Fixed Resistor
R ₃₁	100KΩ 1Watt 10% Carbon Fixed Resistor
R ₃₂	10KΩ ½Watt 10% Carbon Fixed Resistor
R ₃₃	5KΩ ¼Watt 10% Carbon Fixed Resistor
R ₃₄	10KΩ ¼Watt 10% Carbon Fixed Resistor
R ₃₅	2Ω 2Watt 10% Carbon Fixed Resistor
R ₃₆	2.5KΩ ¼Watt 10% Carbon Fixed Resistor
R ₃₇	3KΩ 20Watt 10% Wire Winding Resistor
R ₃₈	2MΩ ¼Watt 10% Carbon Fixed Resistor
R ₃₉	10MΩ ¼Watt 10% Carbon Fixed Resistor
R ₄₀	5KΩ ½Watt 10% Carbon Fixed Resistor
R ₄₁	3KΩ ¼Watt 10% Carbon Fixed Resistor
R ₄₂	5KΩ ¼Watt 10% Carbon Fixed Resistor
R ₄₃	15KΩ ½Watt 10% Carbon Fixed Resistor
R ₄₄	15KΩ ½Watt 10% Carbon Fixed Resistor
R ₄₅	15KΩ ½Watt 10% Carbon Fixed Resistor
R ₄₆	15KΩ ½Watt 10% Carbon Fixed Resistor
R ₄₇	2MΩ ¼Watt 10% Carbon Fixed Resistor
R ₄₈	10MΩ ¼Watt 10% Carbon Fixed Resistor
R ₄₉	1KΩ ¼Watt 10% Carbon Fixed Resistor
R ₅₀	50KΩ ¼Watt 10% Carbon Fixed Resistor
R ₅₁	1KΩ ¼Watt 10% Carbon Fixed Resistor
R ₅₂	500KΩ ¼Watt 10% Carbon Fixed Resistor
R ₅₃	10KΩ ¼Watt 10% Carbon Fixed Resistor
R ₅₄	8KΩ ¼Watt 10% Carbon Fixed Resistor
R ₅₅	100KΩ ¼Watt 10% Carbon Fixed Resistor
R ₅₆	30KΩ ¼Watt 10% Carbon Fixed Resistor

Part No	Nomenclature
R ₅₇	50KΩ ¼Watt 10% Carbon Fixed Resistor
R ₅₈	10KΩ ¼Watt 10% Carbon Fixed Resistor
R ₅₉	8KΩ ¼Watt 10% Carbon Fixed Resistor
R ₆₀	50KΩ ¼Watt 10% Carbon Fixed Resistor
R ₆₁	50KΩ ¼Watt 10% Carbon Fixed Resistor
R ₆₂	50KΩ ¼Watt 10% Carbon Fixed Resistor
R ₆₃	50KΩ ¼Watt 10% Carbon Fixed Resistor
R ₆₄	5KΩ ¼Watt 10% Carbon Fixed Resistor
R ₆₅	5KΩ ¼Watt 10% Carbon Fixed Resistor
R ₆₆	100KΩ ¼Watt 10% Carbon Fixed Resistor
R ₆₇	100KΩ ¼Watt 10% Carbon Fixed Resistor
R ₆₈	170KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₆₉	170KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₇₀	100KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₇₁	100KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₇₂	15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₇₃	15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₇₄	7.5KΩ ¼Watt 10% Carbon Fixed Resistor
R ₇₅	7.5KΩ ¼Watt 10% Carbon Fixed Resistor
R ₇₆	8KΩ ¼Watt 10% Carbon Fixed Resistor
R ₇₇	8KΩ ¼Watt 10% Carbon Fixed Resistor
R ₇₈	15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₇₉	15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₈₀	250Ω ¼Watt 10% Carbon Fixed Resistor
R ₈₁	250Ω ¼Watt 10% Carbon Fixed Resistor
R ₈₂	120KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₈₃	120KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₈₄	30KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₈₅	30KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₈₆	6.5KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₈₇	6.5KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₈₈	15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₈₉	15KΩ ¼Watt 10% Carbon Fixed Resistor (noise less)
R ₉₀	100Ω ¼Watt 10% Carbon Fixed Resistor
R ₉₁	100Ω ¼Watt 10% Carbon Fixed Resistor
R ₉₂	20KΩ ¼Watt 10% Carbon Fixed Resistor
R ₉₃	20KΩ ¼Watt 10% Carbon Fixed Resistor
R ₉₄	2KΩ ¼Watt 10% Carbon Fixed Resistor
R ₉₅	2KΩ ¼Watt 10% Carbon Fixed Resistor
R ₉₆	2KΩ 1Watt 10% Carbon Fixed Resistor

Part No	Nomenclature
R ₁₀₇	150KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₀₈	150KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₀₉	100KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₁₀	100KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₁₁	15KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₁₂	15KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₁₃	100KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₁₄	100KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₁₅	1KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₁₆	50KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₁₇	50KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₁₈	50KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₁₉	50KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₂₀	3KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₂₁	3KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₂₂	150KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₂₃	150KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₂₄	2MΩ ½Watt 10% Carbon Fixed Resistor
R ₁₂₅	2MΩ ½Watt 10% Carbon Fixed Resistor
R ₁₂₆	1MΩ ½Watt 10% Carbon Fixed Resistor
R ₁₂₇	1MΩ ½Watt 10% Carbon Fixed Resistor
R ₁₂₈	2MΩ ½Watt 10% Carbon Fixed Resistor
R ₁₂₉	2MΩ ½Watt 10% Carbon Fixed Resistor
R ₁₃₀	10KΩ 1Watt 10% Carbon Fixed Resistor
R ₁₃₁	2KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₃₂	2KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₃₃	250KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₃₄	250KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₃₅	10KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₃₆	10KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₃₇	150KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₃₈	150KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₃₉	150KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₄₀	150KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₄₁	15KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₄₂	15KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₄₃	5KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₄₄	500KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₄₅	500KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₄₆	500KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₄₇	500KΩ ½Watt 10% Carbon Fixed Resistor
R ₁₄₈	2MΩ ½Watt 10% Carbon Fixed Resistor
R ₁₄₉	2MΩ ½Watt 10% Carbon Fixed Resistor
R _{150A}	700Ω 10Watt 10% Wire wound Resistor
R _{150B}	500Ω 10Watt 10% Wire wound Resistor
R ₁₅₁	400Ω 2Watt 10% Carbon Fixed Resistor
R ₁₅₂	400Ω 2Watt 10% Carbon Fixed Resistor
VR ₁	HUM Balancer 100Ω
VR ₂	HUM Balancer 100Ω
VR ₃	Variable Resistor type 24φ 5KΩ (B)
VR ₄	Variable Resistor type 24φ 50KΩ (A)
VR ₅	Variable Resistor type 24φ 500KΩ (A) (Loudness Tap ~120KΩ)
VR ₆	Variable Resistor type 24φ 1MΩ (N)

Part No	Nomenclature
	(Tone control)
VR ₇	Variable Resistor type 24φ 1MΩ (N) (Tone control)
VR ₈	Variable Resistor type 24φ 500KΩ (A.C) (Balance Control)
C ₁	10pF 250WV 10% Ceramic tubular
C ₂	0.02μF 250WV 10% Ceramic tubular
C ₃	10pF 250WV 10% Ceramic tubular
C ₄	13.5pF 250WV 10% Ceramic tubular
C ₅	100pF 250WV 10% Ceramic tubular
C ₆	18pF 250WV 10% Ceramic tubular
C ₇	0.002μF 250WV 10% Ceramic tubular
C ₈	12pF 250WV 10% Ceramic tubular
C ₉	7pF 250WV 10% Ceramic tubular
C ₁₀	0.002μF 250WV 10% Ceramic tubular
C ₁₁	0.01μF 250WV 10% Ceramic tubular
C ₁₂	20μF 300WV electrolytic tlug terminal
C ₁₃	0.002μF 250WV 10% Ceramic tubular
C ₁₄	0.002μF 250WV 10% Ceramic tubular
C ₁₅	0.01μF 250WV 10% Ceramic tubular
C ₁₆	0.01μF 250WV 10% Ceramic tubular
C ₁₇	0.002μF 250WV 10% Ceramic tubular
C ₁₈	50pF 250WV 10% Ceramic tubular
C ₁₉	0.01μF 250WV 10% Ceramic tubular
C ₂₀	0.002μF 250WV 10% Ceramic tubular
C ₂₁	50pF 250WV 10% Ceramic tubular
C ₂₂	750pF 250WV 10% Mica tubular
C ₂₃	0.01μF 250WV 10% Ceramic tubular
C ₂₄	50pF 250WV 10% Ceramic tubular
C ₂₅	0.01μF 400WV 10% Oil tubular
C ₂₆	15pF 250WV 10% Ceramic tubular
C ₂₇	350pF 200WV 5% Mica tubular
C ₂₈	50pF 250WV 10% Ceramic tubular
C ₂₉	0.05μF 400WV 10% Oil tubular
C ₃₀	0.05μF 400WV 10% Oil tubular
C ₃₁	0.05μF 250WV 10% Ceramic tubular
C ₃₂	100pF 250WV 10% Ceramic tubular
C ₃₃	50pF 250WV 10% Ceramic tubular
C ₃₄	0.02μF 400WV 10% Oil tubular
C ₃₅	200μF 180WV electrolytic lug terminal
C ₃₆	200μF 180WV electrolytic lug terminal
C ₃₇	25μF 50WV electrolytic tubular
C ₃₈	200μF 25WV electrolytic tubular
C ₃₉	200μF 25WV electrolytic tubular
C ₄₀	25μF 25WV electrolytic tubular
C ₄₁	50μF 50WV electrolytic tubular
C ₄₂	0.005μF 400WV 10% Oil tubular
C ₄₃	0.01μF 400WV 10% Oil tubular
C ₄₄	0.001μF 400WV 10% Oil tubular
C ₄₅	300pF 50WV 5% Styrene tubular
C ₄₆	300pF 500WV 5% Mica tubular
C ₄₇	200pF 250WV 5% Mica tubular
C ₄₈	50pF 250WV 10% Ceramic tubular
C ₄₉	0.001μF 400WV 10% Oil tubular

PARTS LIST

Part No	Nomenclature
C50	0.1 μ F 400WV 10% Oil tubular
C51	0.003 μ F 400WV 10% Oil tubular
C52	150 pF 250WV 10% Ceramic tubular
C53	1500 pF 250WV 10% Ceramic tubular
C54	80 pF 50WV 5% Styrene tubular
C55	50 pF 250WV 10% Ceramic tubular
C56	500 pF 50WV 5% Styrene tubular
C57	1 μ F 150WV electrolytic tubular
C58	1000 pF 250WV 10% Ceramic tubular
C59	430 pF 50WV 5% Styrene tubular
C60	0.003 μ F 400WV 10% Oil tubular
C61	0.01 μ F 75WV 10% mylar tubular
C62	3000 pF 500WV 5% Mica tubular
C63	80 pF 50WV 5% Styrene tubular
C64	500 pF 50WV 5% Styrene tubular
C65	430 pF 50WV 5% Styrene tubular
C66	30 μ F 10WV electrolytic tubular
C67	30 μ F 10WV electrolytic tubular
C68	0.01 μ F 75WV 10% mylar tubular
C69	0.01 μ F 75WV 10% mylar tubular
C70	30 μ F 12WV electrolytic tubular
C71	30 μ F 12WV electrolytic tubular
C72	30 μ F 10WV electrolytic tubular
C73	30 μ F 10WV electrolytic tubular
C74	0.04 μ F 75WV 10% mylar tubular
C75	0.04 μ F 75WV 10% mylar tubular
C76	0.013 μ F 75WV 10% mylar tubular
C77	0.013 μ F 75WV 10% mylar tubular
C78	0.05 μ F 75WV 10% mylar tubular
C79	0.05 μ F 75WV 10% mylar tubular
C80	30 μ F 10WV electrolytic tubular
C81	30 μ F 10WV electrolytic tubular
C82	10 μ F 12WV electrolytic tubular
C83	10 μ F 12WV electrolytic tubular
C84	150 pF 500WV 5% Mica tubular
C85	150 pF 500WV 5% Mica tubular
C86	0.02 μ F 75WV 10% mylar tubular
C87	0.02 μ F 75WV 10% mylar tubular
C88	20 μ F 300WV electrolytic tubular
C89	30 μ F 6WV electrolytic tubular
C90	30 μ F 6WV electrolytic tubular
C91	40 μ F 300WV electrolytic tubular
C92	0.03 μ F 400WV 10% Oil tubular
C93	0.03 μ F 400WV 10% Oil tubular
C94	150 pF 500WV 5% Mica tubular
C95	150 pF 500WV 5% Mica tubular
C96	0.001 μ F 400WV 10% Oil tubular
C97	0.001 μ F 400WV 10% Oil tubular
C98	0.003 μ F 400WV 10% Oil tubular
C99	0.003 μ F 400WV 10% Oil tubular
C100	0.02 μ F 75WV 10% mylar tubular
C101	0.02 μ F 75WV 10% mylar tubular
C102	20 μ F 300WV electrolytic tubular
C103	200 pF 500WV 5% Mica tubular
C104	200 pF 500WV 5% Mica tubular
C105	200 pF 500WV 5% Mica tubular

Part No	Nomenclature
C106	200 pF 500WV 5% Mica tubular
C107	0.01 μ F 400WV 10% Oil tubular
C108	0.01 μ F 400WV 10% Oil tubular
C109	0.02 μ F 400WV 10% Oil tubular
C110	0.02 μ F 400WV 10% Oil tubular
C111	0.015 μ F 75WV 10% mylar tubular
C112	0.015 μ F 75WV 10% mylar tubular
C113	0.003 μ F 400WV 10% Oil tubular
C114	0.003 μ F 400WV 10% Oil tubular
C115	0.003 μ F 400WV 10% Oil tubular
C116	0.003 μ F 400WV 10% Oil tubular
C117	20 μ F 350WV electrolytic Lug terminal
C118	150 pF 500WV 5% Mica tubular
C119	150 pF 500WV 5% Mica tubular
C120	40 μ F 350WV electrolytic Lug terminal
C121	0.1 μ F 400WV 10% Oil tubular
C122	0.1 μ F 400WV 10% Oil tubular
C123	0.1 μ F 400WV 10% Oil tubular
C124	0.1 μ F 400WV 10% Oil tubular
C125	25 pF 500WV 10% Mica tubular
C126	25 pF 500WV 10% Mica tubular
C127	20 μ F 350WV electrolytic Lug terminal
C128	20 μ F 350WV electrolytic Lug terminal
T1	MFC-1 19Kc/s 46mH \pm 20%
T2	MPT-2A 19Kc/s 7mH \pm 20%
T3	MPT-2B 38Kc/s 7mH \pm 20%
T4	MFC-2 67Kc/s 25mH \pm 20%
T5	1st FM IF transformer 10.7Mc/s
T6	2nd FM IF transformer 10.7Mc/s
T7	3rd FM IF transformer 10.7Mc/s
T8	FM Discriminator transformer (10.7Mc/s)
T9	1st AM IF transformer 455Kc/s
T10	2nd AM IF transformer 455Kc/s
T11	Out put transformer primary 4.3K Ω Secondary 8 Ω 16 Ω 32 Ω
T12	Out put transformer Primary 4.3K Ω Secondary 8 Ω 16 Ω 32 Ω
T13	Power transformer
L1	FM antenna coil
L2	FM Plat-coil
L3	FM oscillator coil
L4	AM Loopstick antenna coil
L5	AM oscillator
V1	Vacuum tube 6AQ8
V2	Vacuum tube 6BA6
V3	Vacuum tube 6BA6
V4	Vacuum tube 6BA6
V5	Vacuum tube 6BE6
V6	Vacuum tube 6BA6
V7	Vacuum tube 6GE12A
V8	Vacuum tube 12AT7

Part No	Nomenclature
	Vacuum tube
V ₉	Vacuum tube 6BL8
V ₁₀	Vacuum tube 12AU7
V ₁₁	Vacuum tube 6AQ8
V ₁₂	Vacuum tube 6BM8
V ₁₃	Vacuum tube 6BM8
V ₁₄	Vacuum tube 6AQ8
V ₁₅	Vacuum tube 6BM8
V ₁₆	Vacuum tube 6BM8
S.D.	Si. diode input AC 120V outout DC 500mA -55°C ~ +150°C
OA-81	Ge. Diode-VDM 115V ID 50mA + 75°C -55°C
D	Selenium Rectifier
IS-352	Variable capacitor
Tr ₁	transistor 2SB-381-2A
Tr ₂	transistor 2SB-381-2B
Tr ₃	transistor 2SB-381-2A
Tr ₄	transistor 2SB-381-2B
JC ₁	Power Switch connector for 100V/114V/240V
JC ₂	D. I. N Jack (tape Recorder connector)

Part No	Nomenclature
JC ₃	Headset Jack
PL	pilot Lamp 6.3V 0.15A
RELAY	587-313-MB DC 6mA
SS ₁	AFC Switch Slide type
SS ₂	Power Switch Slide type
SS ₃	MAG, X-TAL Change over Switch Slide type
SS ₄	Tape Monitor Switch Slide type
SS ₅	Loudness Switch Slide type
SS ₆	Scratch Switch Slide type
SS ₇	Rumble Switch Slide type
S ₁ S ₂ S ₃	Selector Switch
S ₄ S ₅	MoDe Switch
F	FUSE
VC ₁	Variable Capacity (FM. Tuning)
VC ₂	Variable Capacity (FM. oscillator)
VC ₃	Variable Capacity (AM. Tuning)
VC ₄	Variable Capacity (AM. oscillator)
TC ₁	trimmer condenser
TC ₂	trimmer condenser
TC ₃	trimmer condenser
TC ₄	trimmer condenser
TC ₅	padding condenser

AM ALIGNMENT PROCEDURE

STEP	ALIGN.	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF Trans-former	455 KC ± 30KC sweep	Pin 7 6BE6	oscilloscope at ③		1st I.F.T.-- Primary & secondary 2nd I.F.T.-- Primary & secondary	Best I.F.T Wave form
2.	OSC.	600 KC 400c/s 30% Modulation	Antenna Terminals	oscilloscope & VTVM at output load	600KC	OSC. coil	Maximum
3.	OSC.	1400 KC 400c/s 30% Modulation	Same	Same	1400KC	OSC. Trimmer	Maximum
4.		Reiterate 2. 3.					
5.	RF Amp.	600KC 400c/s 30% Modulation	Antenna Terminals	oscilloscope & V.T.V.M. at output load	600 KC	RF coil	Maximum
6.	RF Amp.	1400 KC 400c/s 30% Modulation	Same	Same	1400 KC	RF Trimmer	Maximum

ALIGNMENT

FM ALIGNMENT PROCEDURE

1. AFC-OFF 2. Turn tuning gang fully Center carrier wave. Set pointer at reference mark.

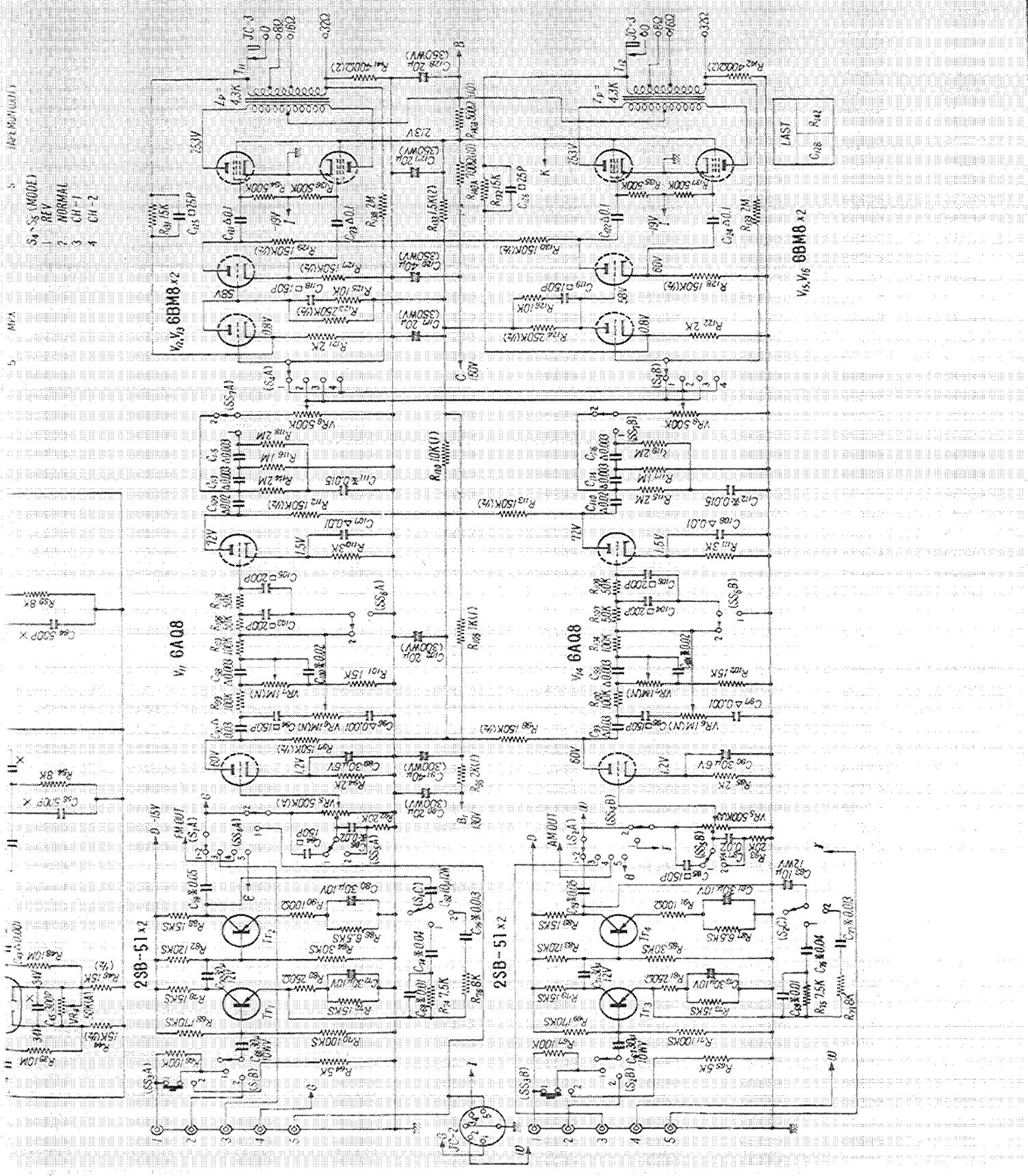
STEP	ALIGN.	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF Transformer	10.7 MC ±400 KC sweep	Couple sweep signal by a round tube (6AQ8)	oscilloscope at ①		1st IFT Secondary 2nd IFT Primary & 3rd IFT Primary & secondary	Best IFT Wave form
2.	Discriminator	Same	Same	oscilloscope at ②		Discriminator Transformer	S Curve
3.	OSC.	90 MC 400c/s 30% Modulation	Antenna Terminals	oscilloscope & V.T.M. at oscillo load	90 MC	OSC. coil	Maximum
4.	OSC.	104 MC 400c/s 30% Modulation	Same	Same	104 MC	OSC. Trimmer	Maximum
5.		Reiterate 3. 4					
6.	RF Amp.	90 MC 400c/s 30% Modulation	Antenna Terminal	oscilloscope & V.T.V.M. at oscillo. load	90 MC	RF Amp. coil	Maximum
7.	RF Amp.	104 MC 400c/s 30%	Same	Same	104 MC	RF trimmer	Maximum
8.		Reiterate 6 7					

MULTIPLEX ALIGNMENT PROCEDURE

1. Do not attempt to align the Multiplex Circuit unless the following equipment is available:
 - a. Multiplex Stereo Generator
 - b. FM Signal Generator
 - c. Oscilloscope
 - d. Sweep Generator
 - e. AC V.T.V.M
 - f. Audio oscillator

STEP	ALIGN.	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	ADJUST	ADJUST FOR
1.	67 KC Trap	67 KC Audio Signal	Connect to ④	V.T.V.M at ⑤	T4	Minimum
2.	19 KC Transformer	FM Signal Gen. Modulated 30 % by Stereo Gen. sub-Channel	Antenna Terminals Tune to signal	V.T.V.M & oscilloscope at Output load	T1	Maximum
3.	19 KC Transformer	same	same	same	T2	Maximum
4.	38 KC Transformer	same	same	same	T3	Maximum
5.	Separation Volume	FM Signal Gen. Modulated 30 % by Stereo Signal Gen. Channel A	Same	V.T.V.M oscilloscope at out- put load Channel B	Separation Volume	Channel A Minimum

- S₁ S₂ (MODE)
 1 REV
 2 NORMAL
 3 CH-1
 4 CH-2



LAST
C₁₈ R₂₈

V₁₅, V₁₆ 6B8 x 2

V₁ 6A08

V₂ 6A08

2SB-51 x 2

2SB-51 x 2

0-15V
PH OUT
(S1A)
(S2A)

AM OUT
(S1A)
(S2A)

(S3A)
(S3B)
(S3C)

(S3B)
(S3C)

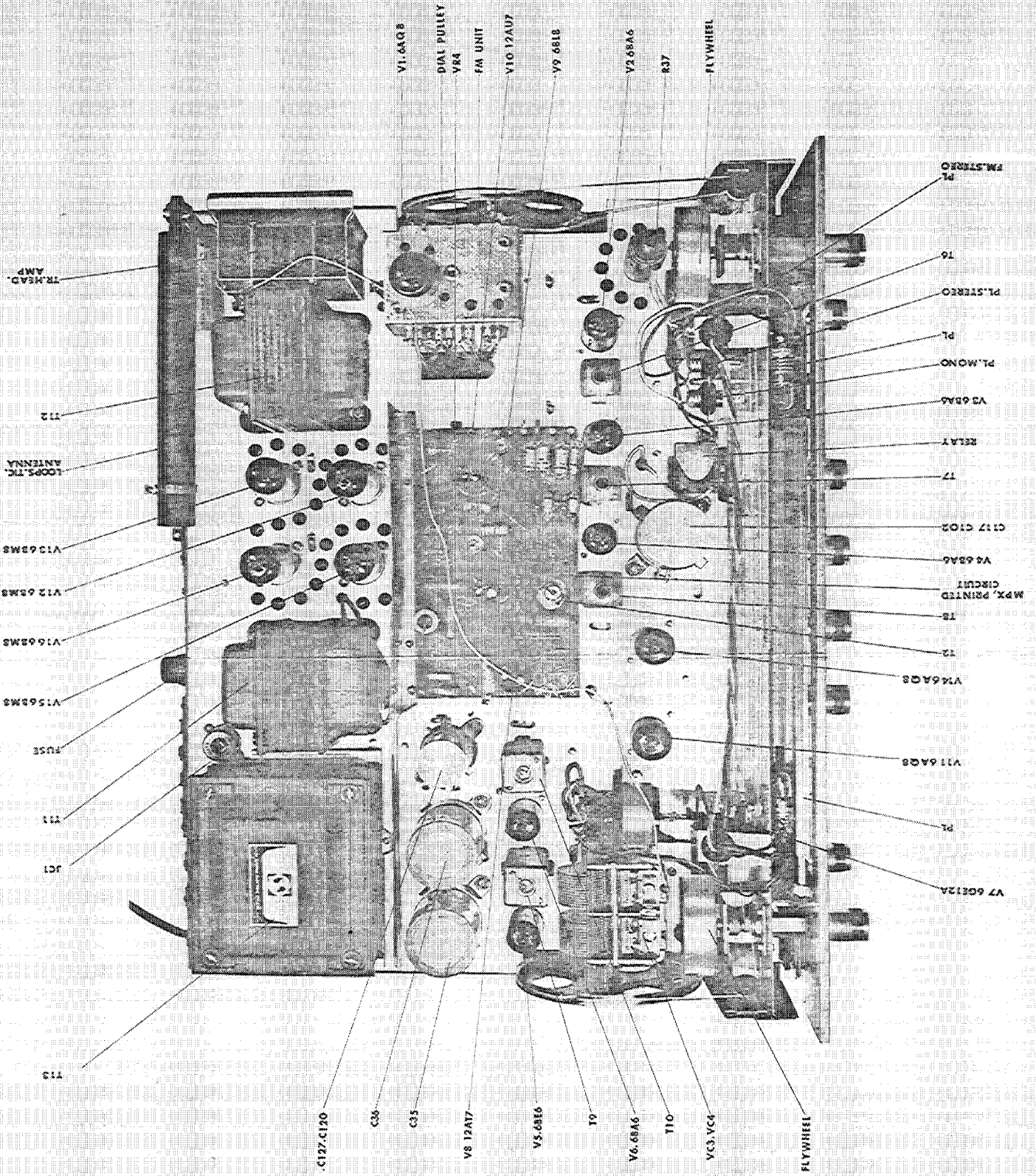
1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

CHASSIS TOP VIEW



SPECIFICATIONS

• Tubes and Semicon Complement:

3-6AQ8, 1-6BE6, 4-6BA6, 4-6BM8,
1-12AU7, 1-6BL8, 12AT7, 1-6GE12A
4-2SB-51 (Transistors), 10-OA81 (Ge
Diodes), 2-SE-0.5A (Si Diodes),
1-TC-0.2P (Se Rectifier)
IS-352 (Variable capacitor)

• Power Amplifier

Output Max.: 46 watts total, 23 watts each channel
Frequency Response: 30 to 70,000 cps ± 2 db
Harmonic Distortion: less than 1% at 13 watts each
channel

Output Impedances: 8, 16 and 32 ohms each channel

• Preamplifier, each channel

Gain: PHONO: [MAG]: 78 db
[X-TAL]: 51.5 db

TAPE(MIC): 83 db

AUX: 49 db

Equalizer: NF type: PHONO (RIAA),
TAPE (BTS).

Tone Control: CR type
at 50 c/s : +12 db to -16 db
at 10Kc/s : +10 db to -14 db

Loudness Control: by switch adjustment
Rumble filter: by switch adjustment
Tape monitor: by switch adjustment

• FM Tuners

Frequency Range: 88 to 108 MC
Band Width: 200 Kc/s (-3 db)
IF: 10.7 Mc/s
De-Emphasis Characteristics: 75 μ s IHFM
Sensitivity: 1.7 μ V (at 30db S/N Radio 0.5W)

• Built-in Multiplex

Frequency Reception: 50 c/s—15Kc/s -2 db
Channel Separation: 30 db at 1V input (at 1Kc/s)
Distortion: less than 1% at 0.3V input

• AM Tuners

Frequency Range: 535 to 1605Kc/s
Band Width: 6K c/s (-3 db)
IF: 455Kc/s
Sensitivity: 50 μ V IHFM

• Power Consumption:

120VA
Power Supply: 117V AC or 240V AC 50—60 c/s

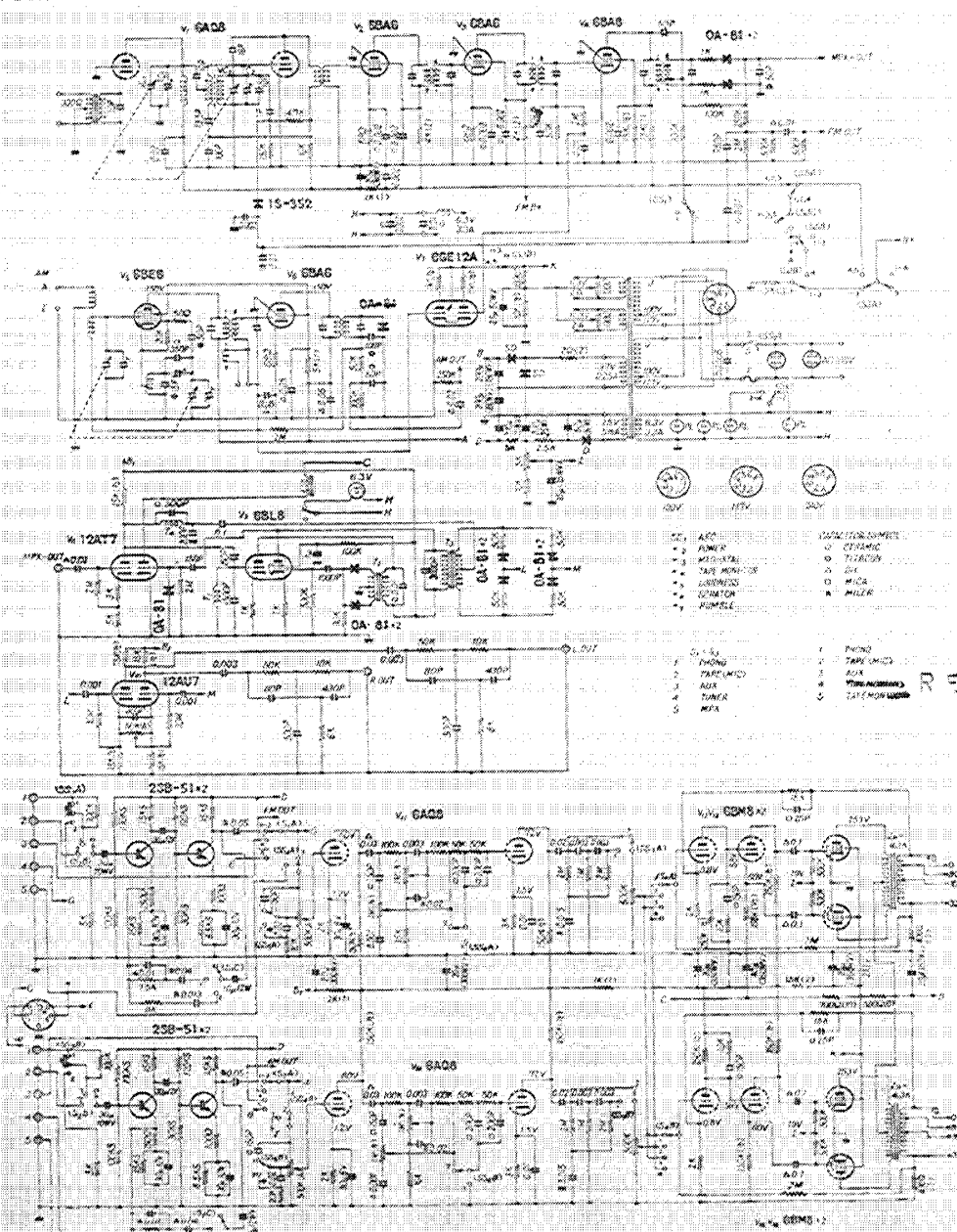
• Cabinet Dimensions:

460 \times 362 \times 156 mm
18 $\frac{3}{4}$ " \times 14 $\frac{1}{4}$ " \times 6 $\frac{1}{8}$ " inc.

• Weight:

36.7 lbs.

SCHEMATIC DIAGRAM



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