

VIDEO I-F SYSTEM

For all practical purposes except as listed below, chassis VK 124 is essentially the same as chassis VK 12. Refer to VK 12 manual for technical information not listed here.
The video I-F system employs stagger-tuned stages consisting of a 6AG5, V3, modulator, four 6AG5's, V4, V5, V30 and V6, 1st, 2nd, 3rd, and 4th I-F and a 1W34, V7, video crystal detector.

The converted Pix carrier is 26.2 Mc and is adjusted to conform to RMA standards to be 6db down the slope of the video I-F passband from the average top level. When adjusted correctly, the passband extends from 26.2 Mc to a point 3db down at 22.5 Mc. (See Fig. 1). Traps are provided in the video I-F system to properly attenuate the accompanying and adjacent sound carrier frequencies at 21.7 Mc and 27.7 Mc, respectively. The 21.7 Mc traps are located in the modulator I-F transformer, T1, and 1st video I-F transformer, T2. The 27.7 Mc adjacent sound traps are located in the 3rd, 4th, and 5th video I-F transformers, T19, T3, and T4. The 21.7 Mc traps and the 27.7 Mc traps provide a 40 to 50 db attenuation. All traps are tuned from the top of the chassis while all signal circuits are tuned from the bottom.

To align the video I-F, connect the video I-F sweep generator to the modulator, V3, grid through a coupling capacitor. Set the sweep to cover 19 to 30 Mc and provide markers at 21.7, 22.5, 26.2 and 27.7 Mc. Connect the oscilloscope to the high side of resistor, R24, in the circuit of the video detector, V7. Adjust contrast control for - 5.0 volts. If the response curve obtained on the oscilloscope is appreciably different from that shown in Fig. 1, the tuning slugs of transformers T1, T2, T19, T3 and T4 should be adjusted from the underside of the chassis. The low-frequency skirt of the response curve is principally affected by T1; the high-frequency skirt by T3. The flatness of the central region is determined by T2, T19 and T4.

The sound traps should be adjusted by the single frequency method rather than by attempting to use the sweep generator. A 400-cycle AM signal set at exactly 21.7 Mc is fed to the modulator and the trap slugs of T1 and T2 tuned for minimum output at the video detector. Similarly the traps of T19, T3 and T4 are tuned for minimum output using a 27.7 Mc signal. After these traps are tuned, the cathode trap T5 of V6 should be adjusted using the sweep generator. The correct adjustment of T5 will be recognized by observing the greatest reduction in amplitude of the peak normally produced slightly below 21.7 Mc.

If T5 is tuned to frequencies above 21.7 Mc, it may cause the video I-F amplifier to oscillate. This is normal and will stop when the cathode trap is tuned to the correct frequency.

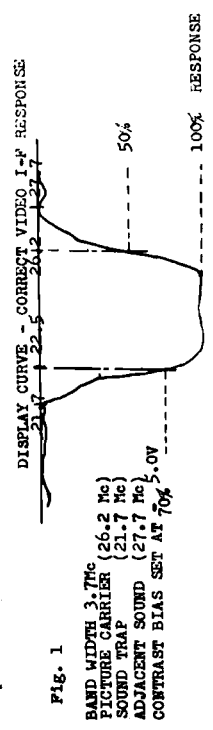


Fig. 1

HI-VOLTAGE

The R.F. Power supply is contained on a separate, completely shielded chassis mounted on the shelf of the receiver adjacent to the 154P4. Its filament and B+ voltages are obtained from the main chassis through plug P5. The supply consists of an R.F. oscillator, operating at about 350 KC, and transformer SA 322, which steps up the voltage before applying it to the 1B3 rectifier. A one turn coil coupled to SA 322 provides the filament voltage for the 1B3. The 2nd anode voltage of the set is 13. KV at no load and is adjusted by means of a trimmer, C134, located at the rear of the chassis. The meter used to read the 2nd anode voltage should have at least 500 megohms resistance. Increasing the capacity of the trimmer C134 (clockwise rotation) raises the voltage while decreasing the trimmer lowers the voltage. This adjustment should never be made without using a voltmeter to read the output voltage and will require no adjustment in any given installation providing the factory adjustment has not been disturbed. Never

expose this assembly to dust, grease, etc., otherwise at the voltages used, leakage will develop and failure of the supply will occur.
LOW VOLTAGE POWER SUPPLY

The filament and "B" voltage required for the chassis is derived from two power supplies both of which are used for television while only T19 is used for the other services. In the television position the set draws 320 watts, while for all other services it draws 120 watts. For complete volt-ampere characteristics refer to chart.

Power supply T20 supplies filament voltage to the video I-F tubes, video tubes, synchronizing and scanning tubes, 154P4 picture tube and the R.F. power supply.
Power supply T19 supplies filament and "B" voltage to all other tubes.

The service switch is used to turn off T20 when in any position other than television.
CHASSIS VK-15-16

For all practical purposes except as listed below, chassis VK 15-16 is essentially the same as chassis VK 12. Refer to VK 12 manual and schematic diagram VK 15-16 for technical information not listed here.
VIDEO I-F SYSTEM

The video I-F system employs stagger-tuned stages consisting of a 6AG5, V3, modulator, four 6AG5's, V4, V5, V30, V6 and V7, 1st, 2nd, 3rd and 4th video I-F and a 1W34, V8 video crystal detector.

The converted Pix carrier is 26.2 Mc and is adjusted to conform to RMA standards to be 6db down the slope of the video I-F passband from the average top level. When adjusted correctly, the pass band extends from 26.2 Mc to a point 3db down at 22.5 Mc. (See Fig. 1). Traps are provided in the video I-F system to properly attenuate the accompanying and adjacent sound carrier frequencies at 21.7 Mc and 27.7 Mc, respectively. The 21.7 Mc traps are located in the modulator I-F transformer, T1, and 1st video I-F transformer, T2. The 27.7 Mc adjacent sound traps are located in the 3rd, 4th and 5th video I-F transformers, T19, T3, and T4. The 21.7 Mc traps and the 27.7 Mc traps provide a 40 to 50 db attenuation. All traps are tuned from the top of the chassis while all signal circuits are tuned from the bottom.

To align the video I-F, connect the video I-F sweep generator to the modulator, V3, grid through a coupling capacitor. Set the sweep to cover 19 to 30 Mc and provide markers at 21.7, 22.5, 26.2 and 27.7 Mc. Connect the oscilloscope to the high side of resistor, R29, in the circuit of the video detector, V8. Adjust contrast control for - 5.0 volts. If the response curve obtained on the oscilloscope is appreciably different from that shown in Fig. 1 the tuning slugs of transformers T1, T2, T3, T4 and T5 should be adjusted from the underside of the chassis. The low-frequency skirt of the response curve is principally affected by T1; the high-frequency skirt by T3. The flatness of the central region is determined by T2, T3, and T5.

The sound traps should be adjusted by the single frequency method rather than by attempting to use the sweep generator. A 400-cycle AM signal set at exactly 21.7 Mc is fed to the modulator and the trap slugs of T1 and T2 tuned for minimum output at the video detector. Similarly the traps of T3, T4 and T5 are tuned for minimum output using a 27.7 Mc signal. After these traps are tuned, the cathode trap T6 of V7 should be adjusted using the sweep generator. The correct adjustment of T6 will be recognized by observing the greatest reduction in amplitude of the peak normally produced slightly below 21.7 Mc.

If T6 is tuned to frequencies above 21.7 Mc, it may cause the video I-F amplifier to oscillate. This is normal and will stop when the cathode trap is tuned to the correct frequency.

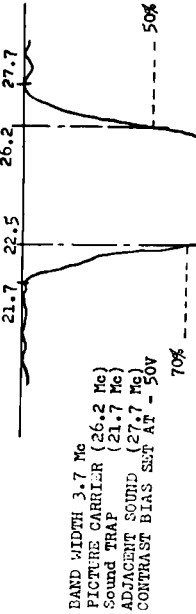


Fig. 1 VIDEO I-F RESPONSE

MODEL VK-1516

NOTE: VOLTAGE

CONSTANTS: Line voltage set to 117 V. A.C.
 "Contr." control turned to extreme CW position, approx. 3.2V.
 "Brightness" control turned to extreme CCW position, approximately 3.1 V.
 "Contrast" set for extreme CW position, approximately 3.1 V.

VOLT - AMPERE CHARACTERISTICS.

CONSTANTS: WNET test pattern adjusted for 12-3/4" by 9-1/2" picture with good linearity and focus.
 "Contr." control turned to extreme CW position, approx. 3.2V. (Picture tube darkened).
 "Brightness" control turned to extreme CCW position. (Picture tube darkened).

All D.C. voltages measured to chassis with 1000 ohms-per-volt D.C. voltmeter, except B- and grid voltage measurements which are made with a V.T.V.M. (Volt-hyast).

Service Selector Switch Position	Line Voltage Volts AC	Line Current Amps AC	R.F. Power Supply	
			B+ Volts DC	B drain Volts DC
TV	117	>3.0	360	57
FM	117	1.3	←	13.5
AM	117	1.25	←	←
Phono	117	1.25	←	←
TV	130	>3.0	397	64
Phono	130	1.5	←	15.3

LO-VOLTAGE POWER SUPPLY #1

Service Selector Switch Position	Line Voltage Volts AC	B+ at C118A Volts DC	B+ at C118B Volts DC	Load Current m.a. DC	Total Tap #1		Heater Wdg. Blu-Blu Leads Volts AC	Heater Wdg. 250 V1 (50A0) Leads Volts AC
					B- Volts DC	Tap #2 Volts DC		
TV	117	416	393	27.7	-10	-6.2	6.2	5.2
FM	117	←	←	"	"	"	"	"
AM	117	467	438	2.90	-11	-6.9	6.93	7.0
Phono	130	←	←	"	"	"	"	"

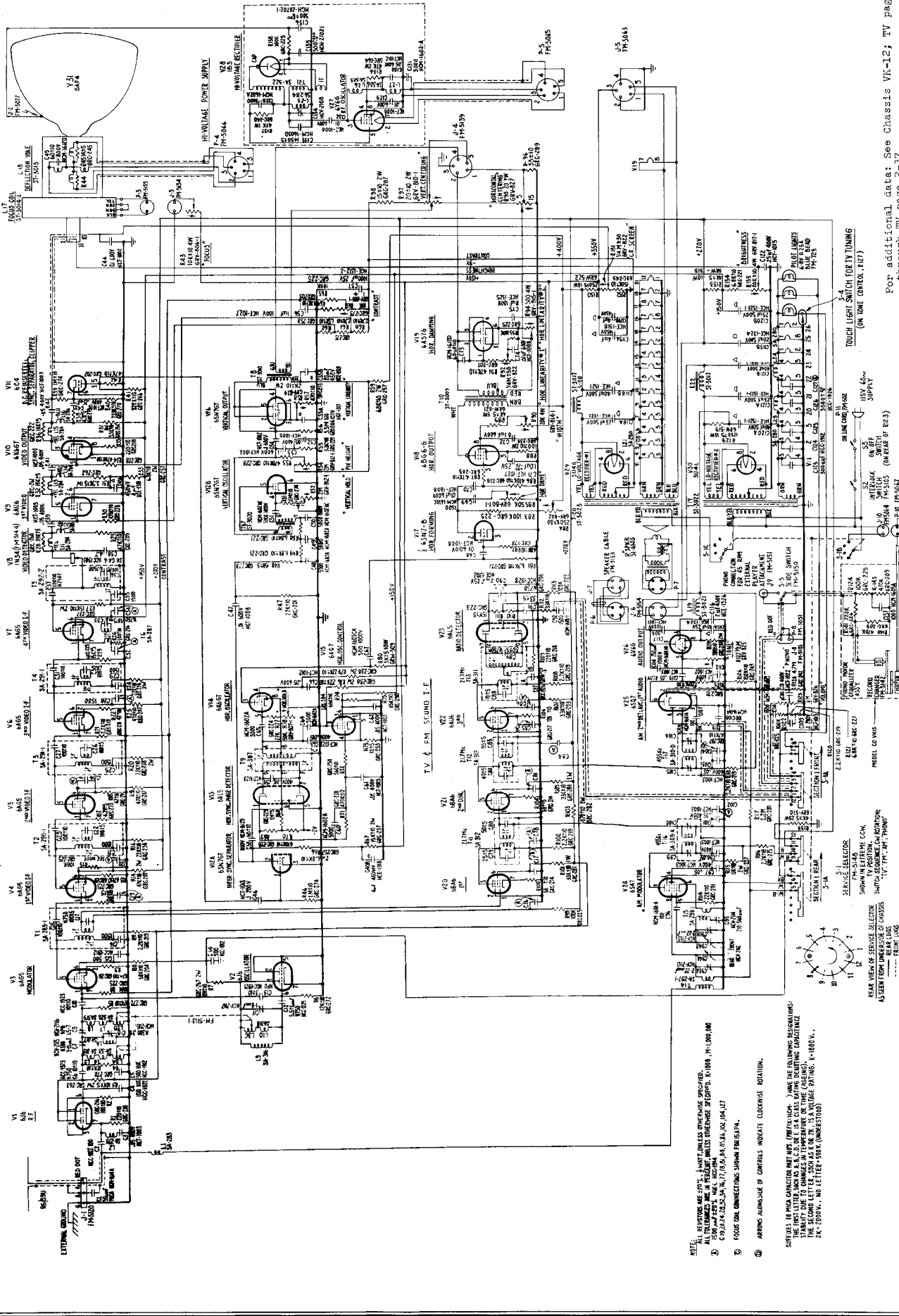
LO-VOLTAGE POWER SUPPLY #2

Service Selector Switch Position	Line Voltage Volts AC	B+ at C121A Volts DC	B+ at C121B Volts DC	B+ at C121C Volts DC	B+ at C120B Volts DC	Load Current DC	Heater Wdg. Grn-Grn Leads Volts AC	Heater Wdg. Fil(50A0) Leads Volts AC
TV	117	334	319	274	271	144	6.3	5.0
FM	117	330	313	263	271	218	6.3	5.0
AM	117	330	315	265	270	220	6.3	5.0
Phono	117	333	316	270	271	222	6.3	5.5
TV	130	376	360	306	305	200	7.0	5.5
Phono	130	372	359	302	304	206	7.0	5.5

No.	Type	Function	SERVICING SELECTOR SWITCH POSITIONS		
			TV	FM	PHONO
1	R.F. Amp.	Plate Screen Cathode Grid	7 8.4 0 140	2.3 0 148	2.3 0 144
2	Oscillator	1 115 7 0 5-3 1113	7 0 5 0 5 0	7 0 5 0 5 0	7 0 5 0 5 0
3	Modulator	5 146 6 134 2 0.35 1-3.3 5 226 6 125 2 0.44 1-1.6 5 235 6 077 2 0 1 5 143 077 8 0	077	077	077
4	1st Video L-F	5 128 6 138 7 0.10 1-3.3	077	077	077
5	2nd Video L-F	5 172 6 139 2 0.5 1-3.3	077	077	077
6	3rd Video L-F	5 156 6 131 2 0.5 1-3.3	077	077	077
7	4th Video L-F	5 177 6 140 7 0.77 1-3.3	077	077	077
8	Video Detector	5 115 6 128 7 0 1-2.1	077	077	077
9	1st Video	3 95 4 147 8 4.2 5-6.0	077	077	077
10	Output Sync Separator	1 6.5 2 0 6 0	077	077	077
11	Clapper		077	077	077

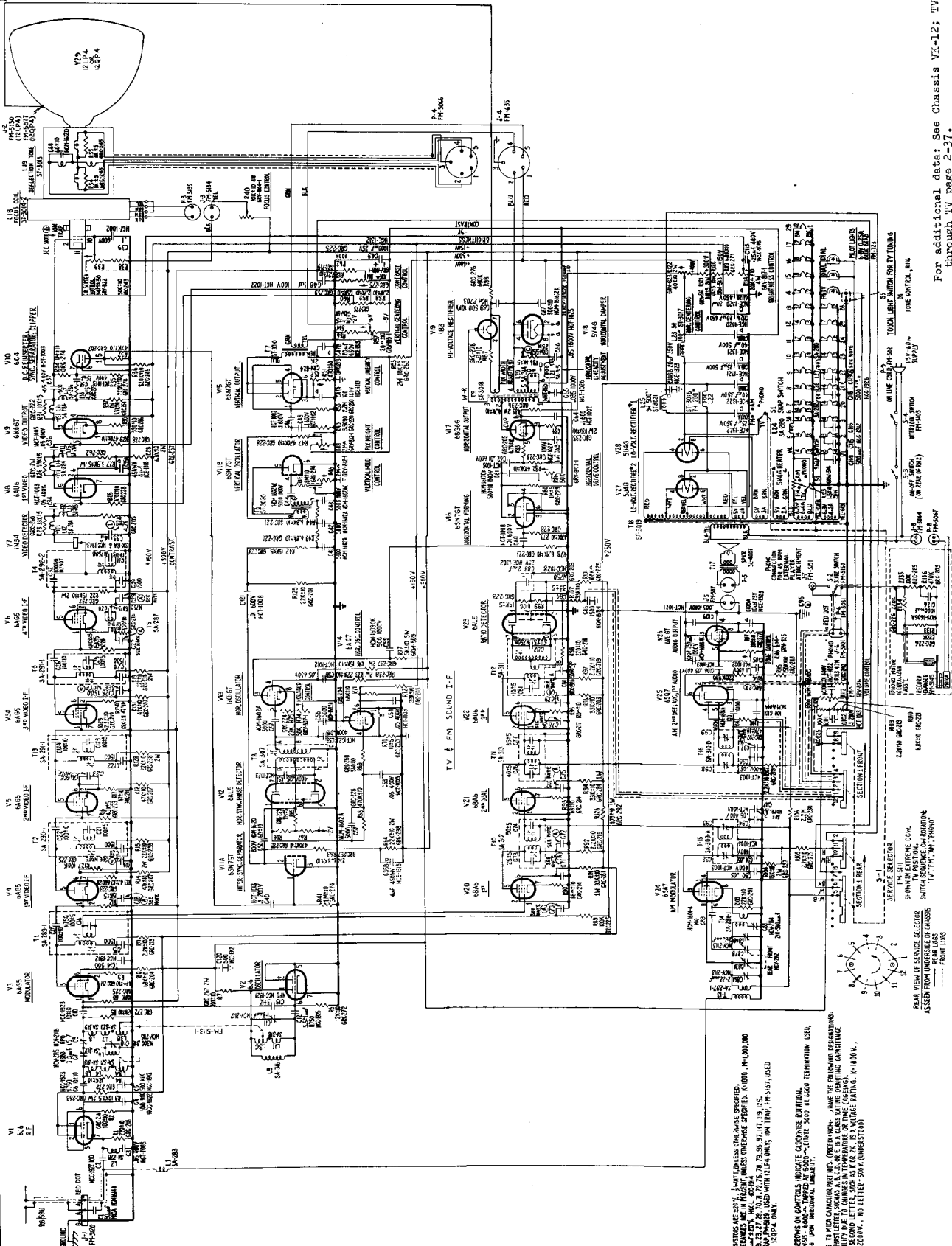
No.	Type	Function	SERVICING SELECTOR SWITCH POSITIONS		
			TV	FM	PHONO
12	6AR5	2 07 3 0 1.0-5	077	077	077
13	6AL5	5 120 6 0 4-3.5	077	077	077
14	6X4	7 4.0 8 1-1.7 5 2-2.1 5 2-2.1	077	077	077
15	6AV6	8 280 6 103 5 0 4-11.6	077	077	077
16	6X4	5 149 6 14 2 0 1-5	077	077	077
17	6AV6	2 66 3 0 1-5	077	077	077
18	6BE6	2 289 6 125 7 0.85 1 0 5-22.7 6 110 7 1.0 1 0 5-8.0 6 109 7 1.0 1 0	077	077	077
19	6AV6	2 289 6 125 7 1.15 1 0 5-23.5 6 110 7 1.12 1 0 5-23.8 6 125 7 1.05 1 0 5-24.3 6 115 7 1.16 1 0	077	077	077
20	6BE6	2 289 6 125 7 1.54 1 0 5-24.0 6 144 7 1.5 1 0 5-24.0 6 130 7 1.50 1 0 5-24.6 6 146 7 1.56 1 0	077	077	077
21	6BE6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077
22	6BE6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077
23	6BE6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077
24	6AV6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077
25	6AV6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077

No.	Type	Function	SERVICING SELECTOR SWITCH POSITIONS		
			TV	FM	PHONO
26	6Y6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077
27	6Y6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077
28	6Y6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077
29	6Y6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077
30	6Y6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077
31	6Y6	2 289 6 125 7 0.5 2 0 0 2 0 0	077	077	077



NOTE:
 1. ALL RESISTORS ARE 1/2W. 1/4W. UNLESS OTHERWISE SPECIFIED.
 2. ALL CAPACITORS ARE IN PFD. UNLESS OTHERWISE SPECIFIED. K=1000. M=100,000.
 3. C9, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, C192, C193, C194, C195, C196, C197, C198, C199, C200, C201, 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For additional data: See Chassis VK-12; TV page 2-9, 10 through TV page 2-37.



For additional data: See Chassis VK-12; TV page 2-9,10 through TV page 2-37.

- NOTES:
- 1. ALL RESISTORS ARE 5% TOLERANCE UNLESS OTHERWISE SPECIFIED.
 - 2. CAPACITORS ARE 50V UNLESS OTHERWISE SPECIFIED.
 - 3. ALL TUBES ARE 6X4, 6AR5, 6BE6, 6BD6, 6BE7, 6BE8, 6BE9, 6BE9A, 6BE9B, 6BE9C, 6BE9D, 6BE9E, 6BE9F, 6BE9G, 6BE9H, 6BE9I, 6BE9J, 6BE9K, 6BE9L, 6BE9M, 6BE9N, 6BE9O, 6BE9P, 6BE9Q, 6BE9R, 6BE9S, 6BE9T, 6BE9U, 6BE9V, 6BE9W, 6BE9X, 6BE9Y, 6BE9Z, 6BE9AA, 6BE9AB, 6BE9AC, 6BE9AD, 6BE9AE, 6BE9AF, 6BE9AG, 6BE9AH, 6BE9AI, 6BE9AJ, 6BE9AK, 6BE9AL, 6BE9AM, 6BE9AN, 6BE9AO, 6BE9AP, 6BE9AQ, 6BE9AR, 6BE9AS, 6BE9AT, 6BE9AU, 6BE9AV, 6BE9AW, 6BE9AX, 6BE9AY, 6BE9AZ, 6BE9BA, 6BE9BB, 6BE9BC, 6BE9BD, 6BE9BE, 6BE9BF, 6BE9BG, 6BE9BH, 6BE9BI, 6BE9BJ, 6BE9BK, 6BE9BL, 6BE9BM, 6BE9BN, 6BE9BO, 6BE9BP, 6BE9BQ, 6BE9BR, 6BE9BS, 6BE9BT, 6BE9BU, 6BE9BV, 6BE9BW, 6BE9BX, 6BE9BY, 6BE9BZ, 6BE9CA, 6BE9CB, 6BE9CC, 6BE9CD, 6BE9CE, 6BE9CF, 6BE9CG, 6BE9CH, 6BE9CI, 6BE9CJ, 6BE9CK, 6BE9CL, 6BE9CM, 6BE9CN, 6BE9CO, 6BE9CP, 6BE9CQ, 6BE9CR, 6BE9CS, 6BE9CT, 6BE9CU, 6BE9CV, 6BE9CW, 6BE9CX, 6BE9CY, 6BE9CZ, 6BE9DA, 6BE9DB, 6BE9DC, 6BE9DD, 6BE9DE, 6BE9DF, 6BE9DG, 6BE9DH, 6BE9DI, 6BE9DJ, 6BE9DK, 6BE9DL, 6BE9DM, 6BE9DN, 6BE9DO, 6BE9DP, 6BE9DQ, 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