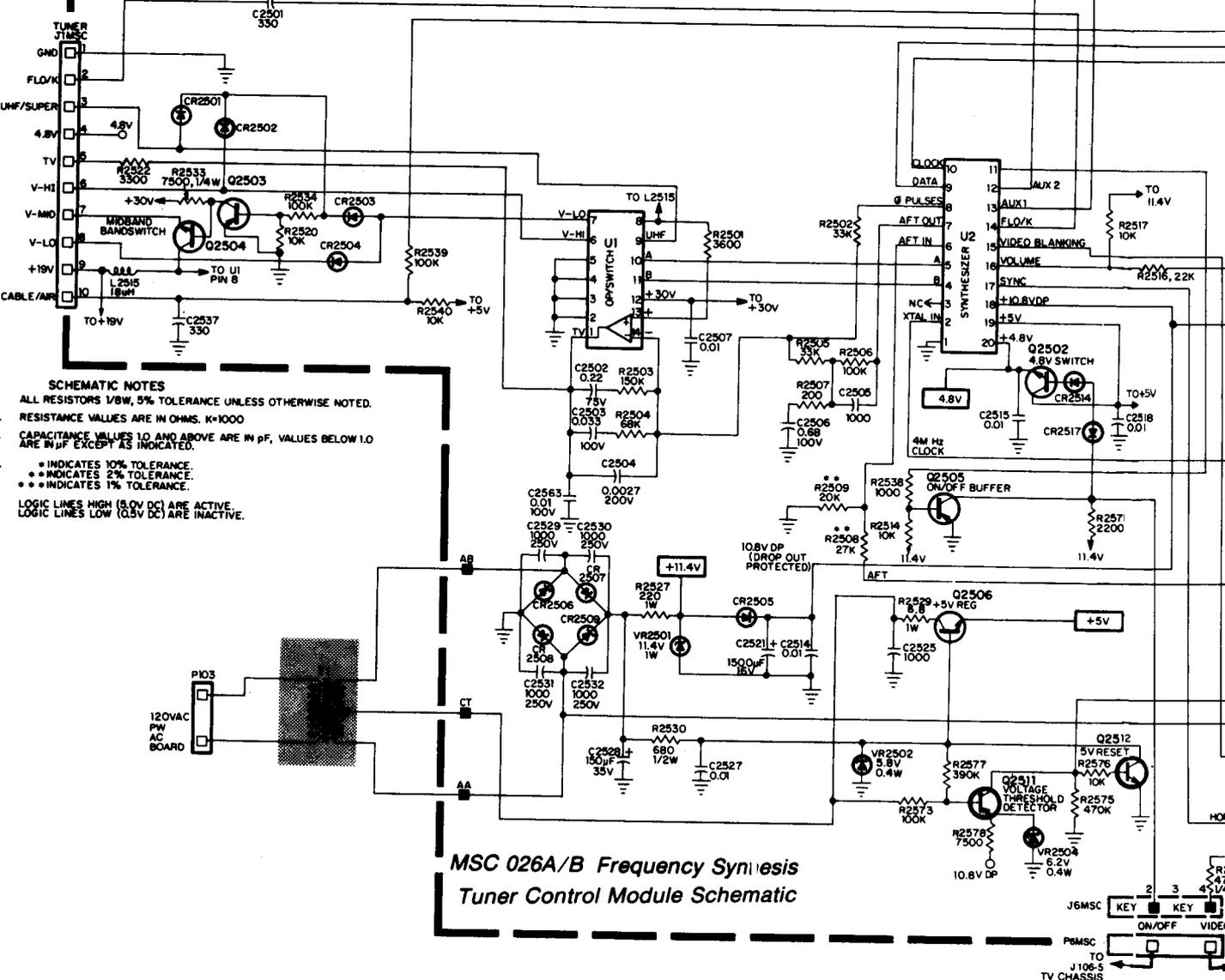
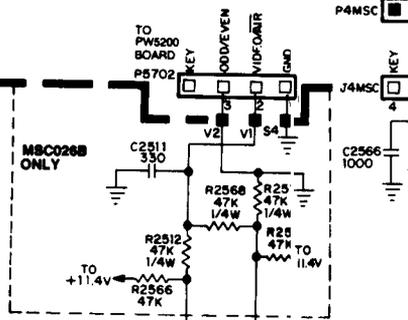
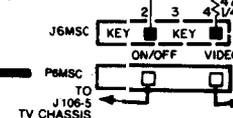


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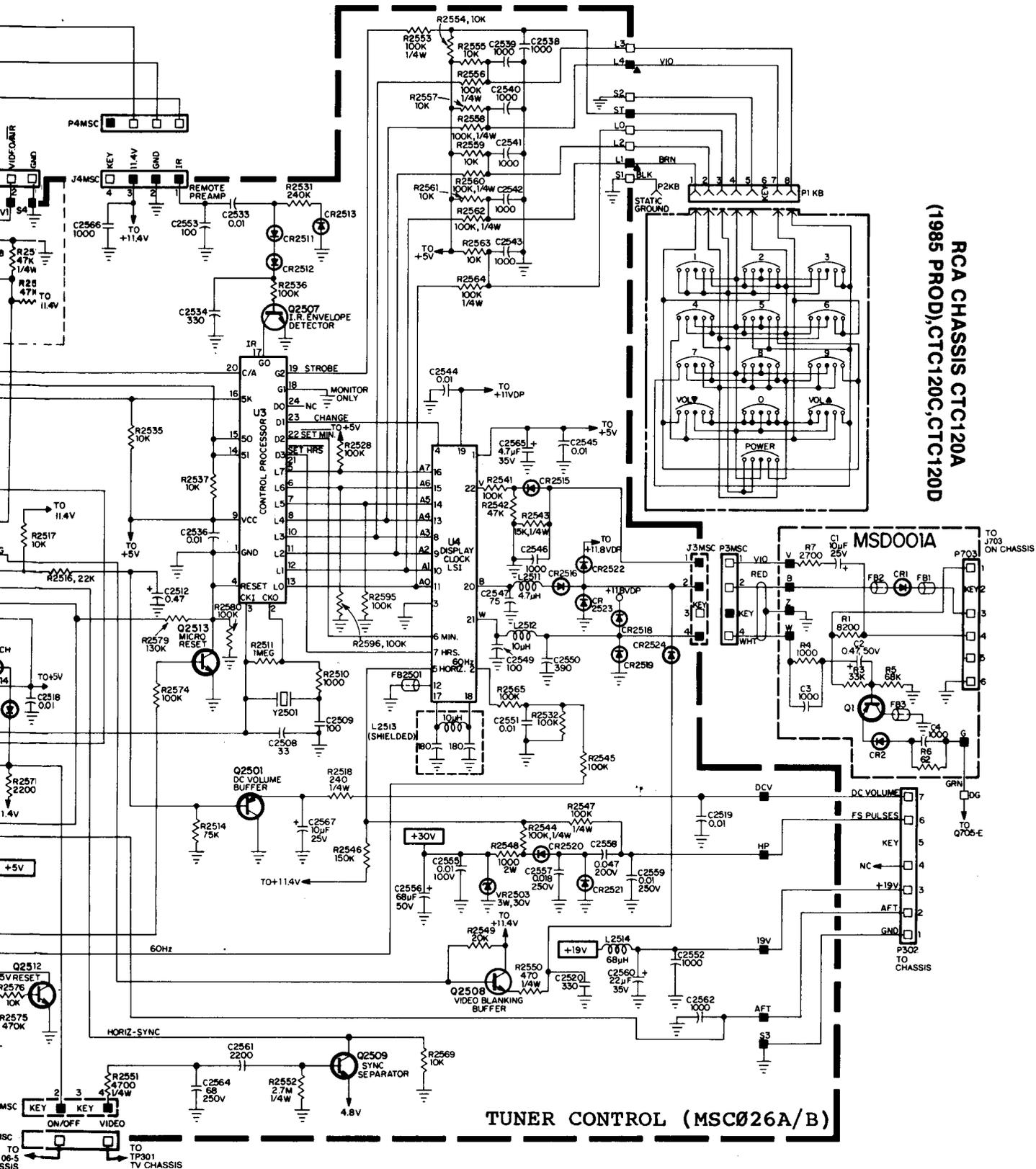


- SCHEMATIC NOTES**
- ALL RESISTORS 1/8W, 5% TOLERANCE UNLESS OTHERWISE NOTED.
 - RESISTANCE VALUES ARE IN OHMS. K=1000
 - CAPACITANCE VALUES 1.0 AND ABOVE ARE IN pF, VALUES BELOW 1.0 ARE IN pF EXCEPT AS INDICATED.
 - * INDICATES 10% TOLERANCE.
** INDICATES 2% TOLERANCE.
*** INDICATES 1% TOLERANCE.
 - LOGIC LINES HIGH (5.0V DC) ARE ACTIVE.
LOGIC LINES LOW (0.5V DC) ARE INACTIVE.

MSC 026A/B Frequency Synthesis
Tuner Control Module Schematic



RCA CHASSIS CTC120A
(1985 PROD), CTC120C, CTC120D



TUNER CONTROL (MSC026A/B)

SYMBOL NO.	STOCK NO.	DRAWING NO.	DESCRIPTION	SYMBOL NO.	STOCK NO.	DRAWING NO.	DESCRIPTION
J2501	151980	2860051-019	CONNECTOR 10 PIN	Q2508	145410	1417330-015	TRANSISTOR SYNC SEPARATOR
J2502	150700	2860056-301	CONNECTOR 8 PIN	Q2511	145410	1417330-015	TRANSISTOR, THRESHOLD DETECT
J2503	150701	2860056-302	CONNECTOR 4 PIN	Q2512	146847	1417306-013	TRANSISTOR 5V RESET
L2503	156370	2872884-042	COIL 10UH	Q2513	146847	1417306-013	TRANSISTOR MICRO RESET
L2504	156370	2872884-042	COIL 10UH	T1	180185	1466469-010	* TRANSFORMER POWER
L2505	150702	2872884-018	COIL 4.7UH	U2501	149870	1421716-002	IC OP AMP SWITCH
L2508	156370	2872884-042	COIL 10UH	U2502	157816	1421773-003	IC SYNTHESIZER
L2509	156370	2872884-042	COIL 10UH	U2503	157816	1421775-002	IC CONTROL PROCESSOR
L2511	160184	2873607-135	COIL 68UH	U2504	150704	1421720-006	IC DISPLAY CLOCK
P1101	159381	2860742-010	CONNECTOR 11 PIN	VR2501	156369	1474777-025	DIODE ZENER 11.4V
P1MPS	157358	2861175-004	CONNECTOR 5 PIN	VR2502	157832	1471898-018	DIODE ZENER 5.8V
P1TSS	161225	2861175-002	CONNECTOR 3 PIN	VR2503	156313	2870486-002	DIODE ZENER 30V
P2BCD	157825	1474632-004	CONNECTOR	VR2504	157835	1497049-007	DIODE ZENER 6.2V
Q2501	146301	1417309-004	TRANSISTOR VOLUME MUTE	Y2501	158618	2816766-001	CRYSTAL
Q2502	145410	1417330-015	TRANSISTOR VIDEO BLANKER	VTCA5A			
Q2503	153399	1417306-015	TRANSISTOR SYNC DETECT	CR4001	149751	99202-229	DIODE ZENER 36V
Q2504	151974	1417303-005	TRANSISTOR MEMORY POWER DOWN	CR4002	141187	1477046-010	DIODE ZENER 18V
Q2505	142190	1417330-001	TRANSISTOR MEMORY POWER DOWN	DS4001	122808	1442539-005	LAMP
Q2506	145410	1417330-015	TRANSISTOR MEMORY POWER DOWN	L4001	143893	1496280-012	COIL 2.2UH
Q2507	153325	1417347-002	TRANSISTOR MID BAND SWITCH	P302	157135	2861606-300	CONNECTOR
Q2508	142190	1417330-001	TRANSISTOR MID BAND SWITCH	Q4001	148070	1417411-001	TRANSISTOR FET
Q2510	145410	1417330-015	TRANSISTOR SYNC DEFEAT	R4001	149762	993117-151	* RES MFFP 3W 5% 12K
R2545	143763	1473366-009	RES CONTROL DISPLAY WIDTH	R4013	831056	993115-195	* RES MFFP 1W 5% 56R
R2579	830047	993290-193	* RES CFFP 1/2W 5% 47R	R4018			
U2501	157309	1421757-002	IC SYNTHESIZER	R4029	149753	1473373-030	* RES CONTROL TUNING
U2502	149870	1421716-002	IC BAND SWITCH	R4030			
U2503	150704	1421720-006	IC DECODER	R4035	149754	2870949-002	* RES CONTROL TUNING
U2504	148446	2843187-001	IC MEMORY	S4211	149750	1467712-004	* SWITCH AFT DEFEAT MANUAL
MSC026A/B				S4223A/			
CR2501	119597	1471872-010	DIODE	S4223B	149749	1467785-001	SWITCH CHANNEL SELECT/BAND
CR2502	119597	1471872-010	DIODE	S4223C	156371	2870952-002	SWITCH AFT DEFEAT AUTO
CR2503	119597	1471872-010	DIODE	U4001	149255	1421763-002	IC REGULATOR
CR2504	119597	1471872-008	DIODE				
CR2505	119597	1471872-010	DIODE	152203	2841294-503	2841294-503	DETENT ASSEMBLY W/SHAFT
CR2506	147015	99203-203	DIODE	154511	1466974-515	1466974-515	LAMP, PILOT ASSY
CR2507	147015	99203-203	DIODE	139301	1479290-001	1479290-001	RETAINER, BEAD CHAIN
CR2508	147015	99203-203	DIODE	157144	2870954-001	2870954-001	SPRING, RETAINER
CR2511	119597	1471872-010	DIODE	REMOTE CONTROL ASSEMBLIES			
CR2512	119597	1471872-010	DIODE	MCR016RA			
CR2513	119597	1471872-010	DIODE	C1106	145171	1490303-151	* CAP LYTC 1000UF R 35V
CR2514	119597	1471872-010	DIODE	CR1101	137652	99203-202	DIODE
CR2515	119597	1471872-010	DIODE	CR1102	137652	99203-202	DIODE
CR2516	119597	1471872-010	DIODE	CR1103	137652	99203-202	DIODE
CR2517	119597	1471872-010	DIODE	CR1104	137652	99203-202	DIODE
CR2518	119597	1471872-008	DIODE	CR1108	119597	1471872-008	DIODE
CR2519	119597	1471872-008	DIODE	CR1109	119597	1471872-008	DIODE
CR2520	139706	1471872-008	DIODE	CR1110	148531	1471898-013	DIODE ZENER 9.1V
CR2521	139706	1471872-008	DIODE	CR1114	150706	1477048-029	DIODE ZENER 5.1V
CR2522	119597	1471872-008	DIODE	CR1116	119597	1471872-008	DIODE
CR2523	119597	1471872-008	DIODE	CR1117	119597	1471872-008	DIODE
CR2524	119597	1471872-010	DIODE	CR1118	119597	1471872-008	DIODE
FB2501	153328	2843165-004	BEAD	CR1119	119597	1471872-006	DIODE
J1MSC	151980	2860051-019	CONNECTOR 10 PIN	CR1120	139706	1471872-008	DIODE
J3MSC	150701	2860056-302	CONNECTOR 4 PIN	CR1121	139706	1471872-008	DIODE
J4MSC	157820	2860056-304	CONNECTOR 4 PIN	CR1122	119597	1471872-006	DIODE
J6MSC	160182	2860056-320	CONNECTOR 4 PIN	CR1124	119597	1471872-006	DIODE
L2511	150702	2872884-016	COIL 4.7UH	CR1125	119597	1471872-006	DIODE
L2512	156370	2872884-042	COIL 10UH	CR1126	119597	1471872-006	DIODE
L2513	157827	2812868-014	COIL 10UH	CR1127	119597	1471872-006	DIODE
L2514	160184	2873607-135	COIL 68UH	CR1128	119597	1471872-006	DIODE
L2515	159258	2872884-023	COIL 18UH	CR1129	119597	1471872-006	DIODE
P1KB	154481	2860742-007	CONNECTOR 8 PIN	CR1130	119597	1471872-006	DIODE
P2KB	157825	1474632-004	CONNECTOR 1 PIN	CR1131	119597	1471872-006	DIODE
P302	158237	2861607-305	CONNECTOR 7 PIN	CR1132	119597	1471872-006	DIODE
P5207	159647	2861604-304	CONNECTOR 4 PIN MSC026B	CR1133	119597	1471872-006	DIODE
Q2501	145410	1417330-015	TRANSISTOR DC VOLUME BUFFER	CR1134	148531	1471898-013	DIODE ZENER 9.1V
Q2502	157833	1417349-007	TRANSISTOR 4.8V SWITCH	CR1135	119597	1471872-006	DIODE
Q2503	146847	1417306-013	TRANSISTOR MID BAND SWITCH	CR1141	159890	1474777-027	DIODE ZENER 12.4V
Q2504	157833	1417349-007	TRANSISTOR MID BAND SWITCH	FB1101	154052	2843165-001	BEAD
Q2505	146847	1417306-013	TRANSISTOR ON/OFF BUFFER	<i>Continued on next page</i>			
Q2506	157827	1417364-003	TRANSISTOR +5V REGULATOR				
Q2507	146847	1417306-013	TRANSISTOR IR ENVELOPE DETECT				
Q2508	143794	1417306-012	TRANSISTOR VIDEO BLANK BUFFER				

Courtesy of the Manufacturer

TUNER CONTROLS (MSC026A/B, VTCA5A)/REMOTE RECEIVER (MCR016RA)