

PAL VERSION



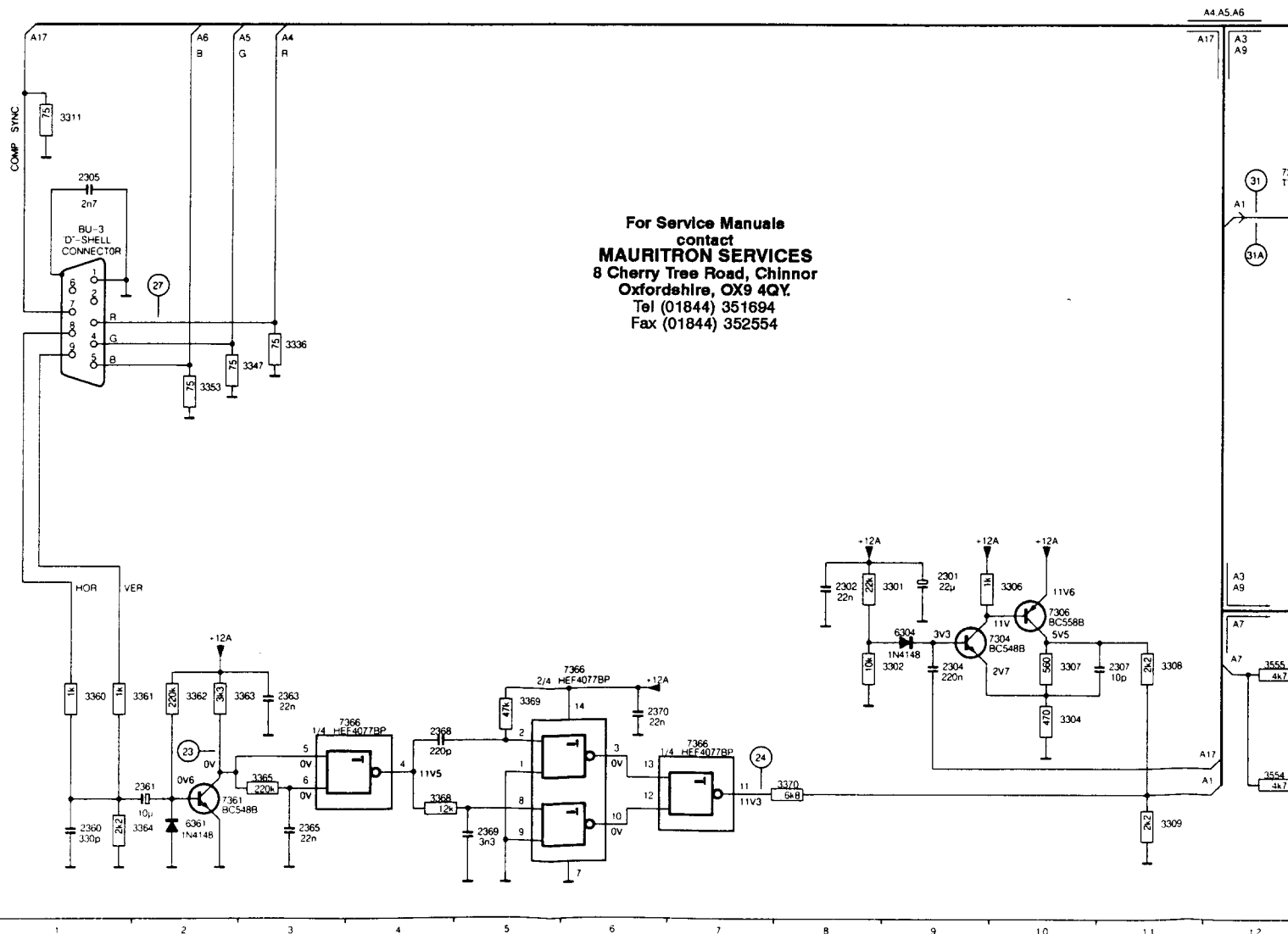
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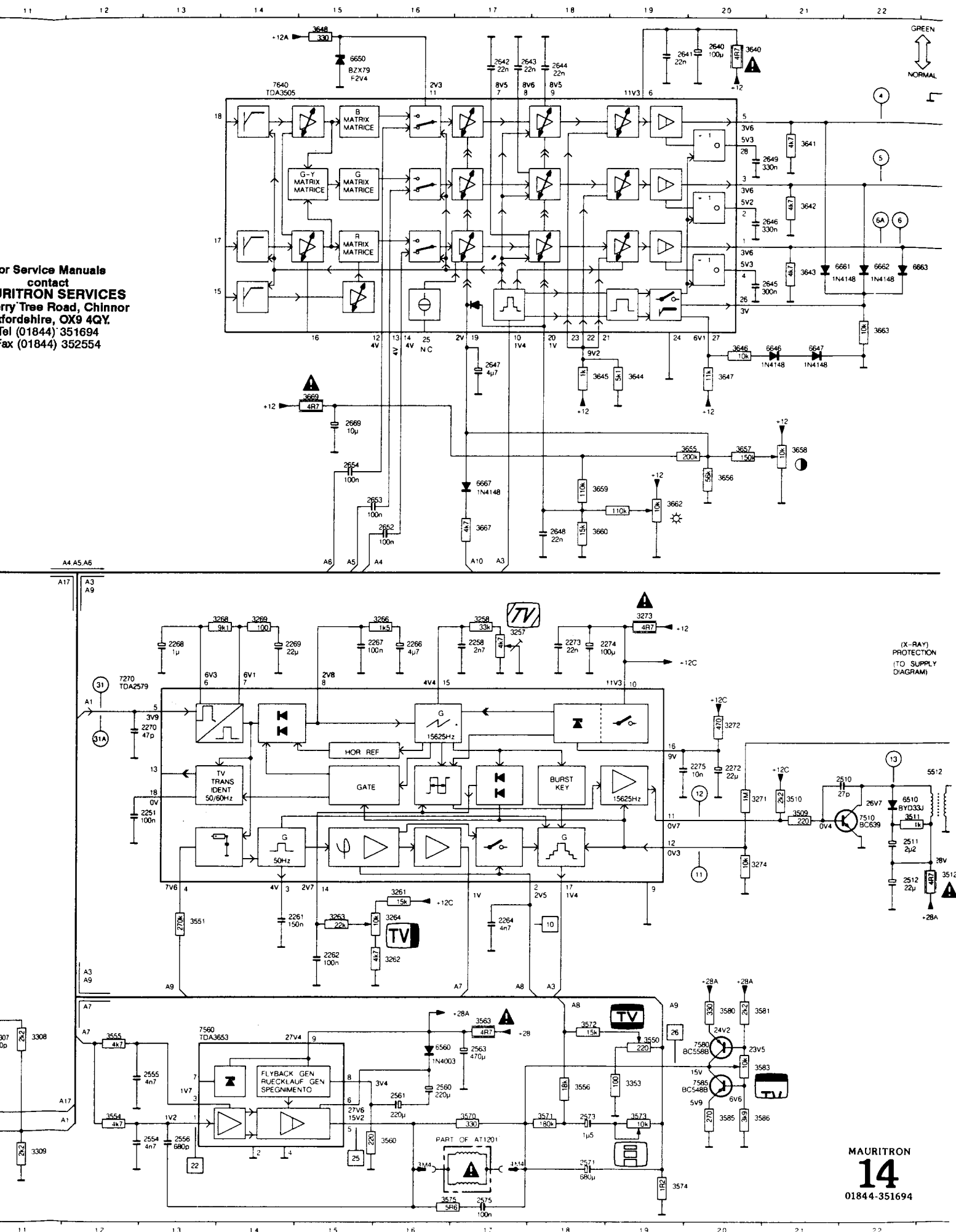
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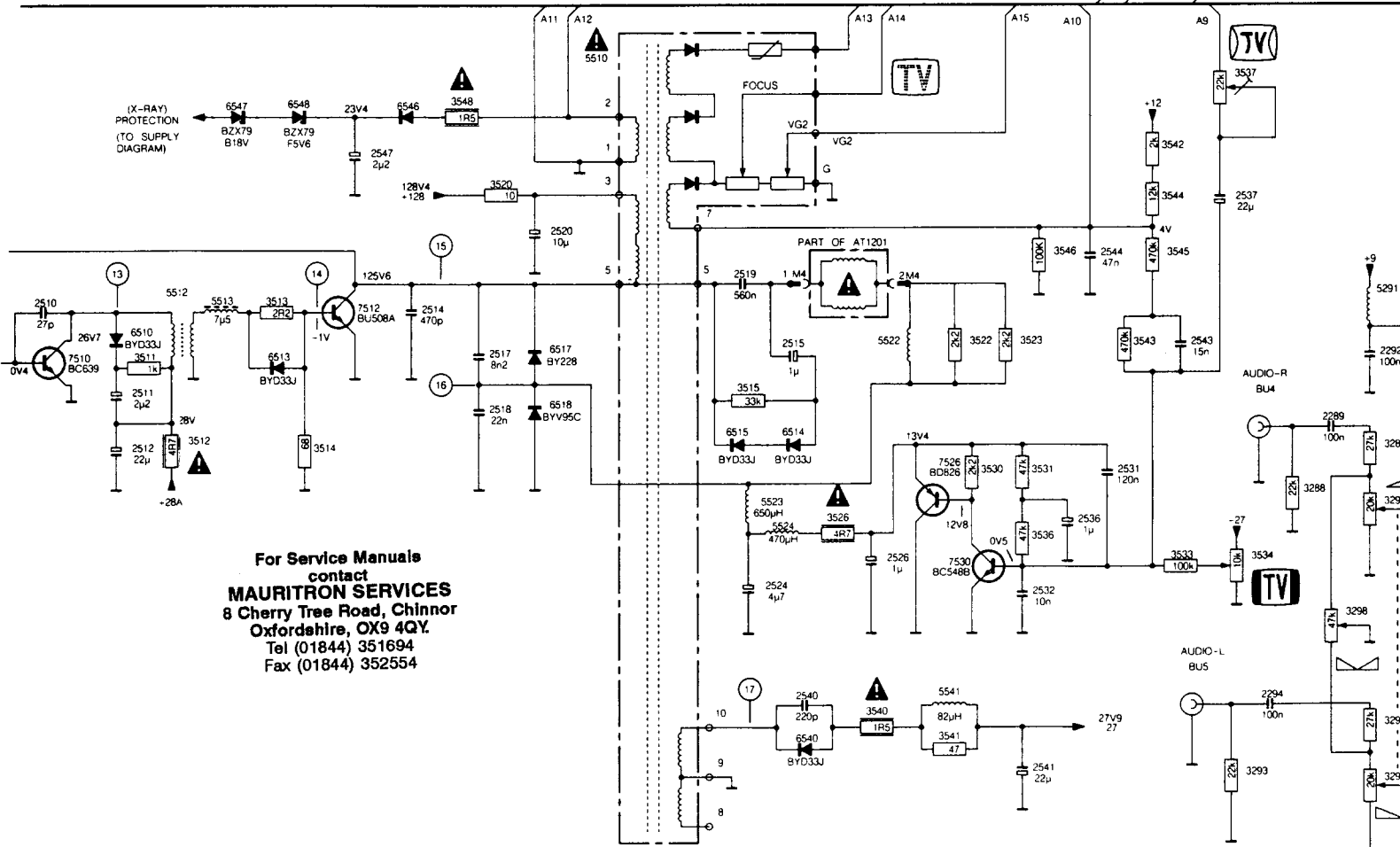
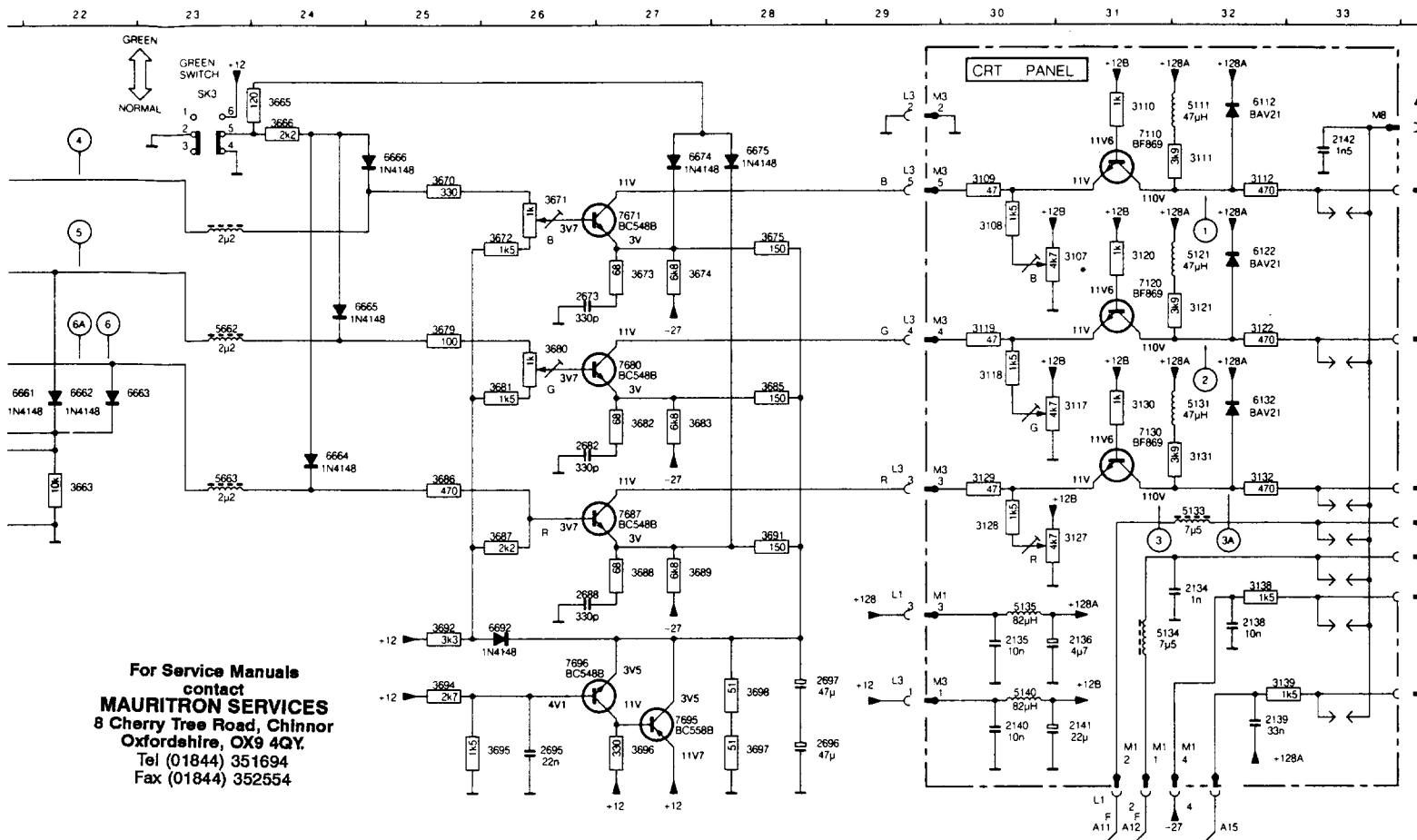
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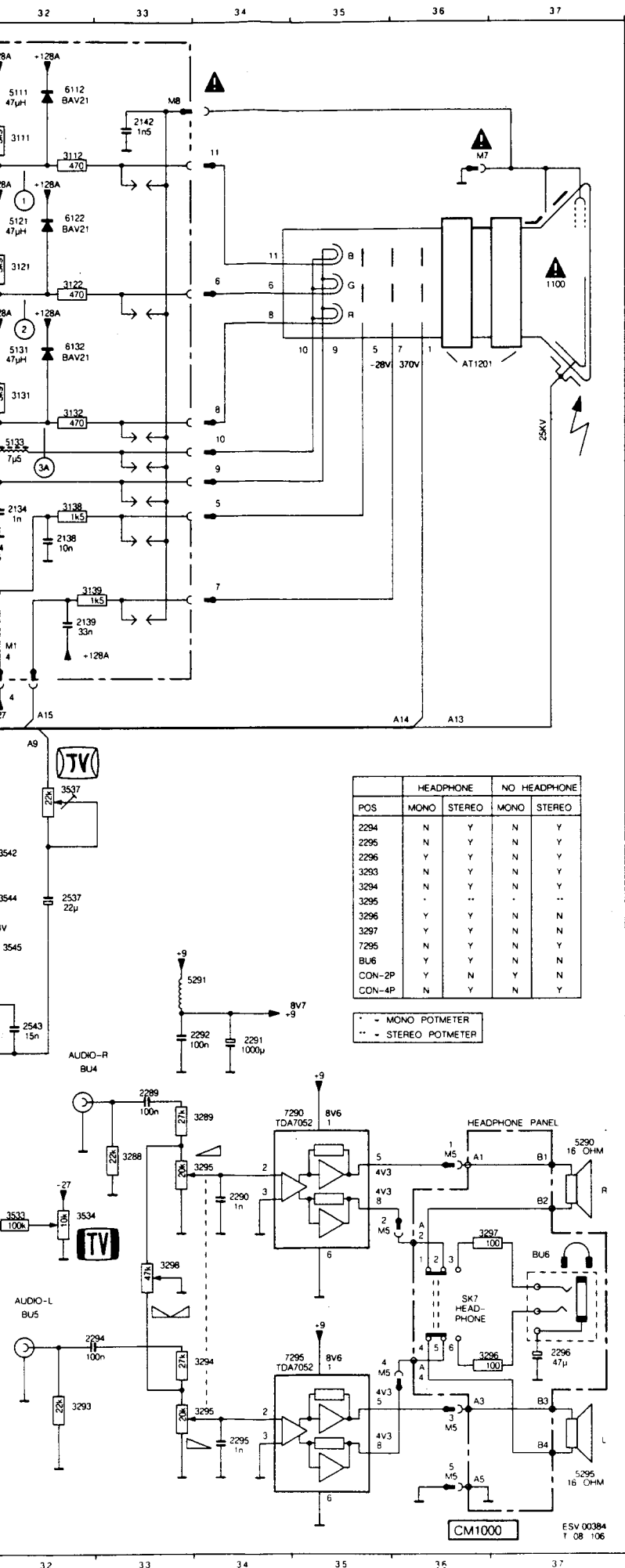
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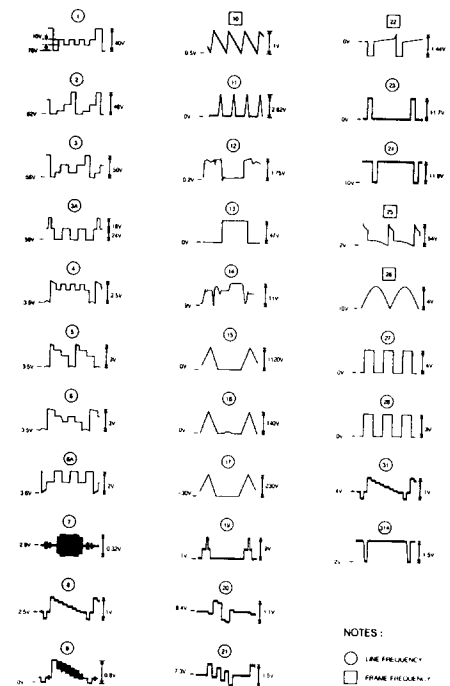


BU4	K32	3360	N1	7290	K35
BU5	M2	3361	N2	7295	N35
SK3	A23	3362	N2	7304	M9
SK7	M6	3363	N3	7306	M10
2134	E32	3364	O2	7361	O2
2135	F30	3365	N3	7368	M6
2136	F31	3366	O4	7368	N4
2138	E32	3369	N5	7368	N7
2139	F32	3370	O8	7510	K22
2140	F30	3509	J21	7512	J24
2141	F31	3510	J21	7530	L30
2142	K33	3511	K22	7560	M13
2251	J13	3512	K23	7585	N20
2258	H17	3513	J24	7640	A14
2261	L15	3514	K24	7671	B27
2262	L15	3515	K28	7680	C27
2264	L17	3520	I26	7687	C27
2266	H16	3522	J30	7696	F26
2267	H16	3523	J30		
2268	H13	3526	L29		
2269	H14	3530	L30		
2270	I13	3531	L30		
2272	J20	3533	L32		
2273	H18	3534	L32		
2274	H19	3536	L30		
2275	J20	3537	H32		
2289	K33	3540	N20		
2290	L34	3541	N30		
2291	K34	3542	I32		
2292	K34	3543	J31		
2294	N32	3544	I32		
2295	O34	3545	J32		
2296	N37	3546	J31		
2301	M9	3548	H25		
2302	M9	3550	M19		
2304	M9	3551	L13		
2305	I1	3554	N12		
2307	M11	3555	M12		
2360	O1	3556	N18		
2361	O2	3560	N16		
2363	N3	3563	M17		
2365	O3	3570	N17		
2368	N4	3571	N18		
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2370	N6	3573	N19		
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2511	K22	3575	O16		
2512	K22	3580	M20		
2514	J25	3581	M21		
2515	J28	3583	N21		
2517	K26	3585	N20		
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2520	I26	3641	B21		
2524	M28	3642	C21		
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2531	L31	3644	E19		
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2536	L31	3646	D20		
2537	I32	3647	E20		
2540	N28	3648	A15		
2541	N30	3655	F20		
2543	J32	3656	F20		
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2547	I25	3658	F21		
2554	O13	3659	F18		
2555	N13	3660	G18		
2556	O13	3662	G19		
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2645	D21	3679	C25		
2646	C21	3680	C26		
2647	E17	3681	C26		
2648	G18	3682	D27		
2649	B21	3683	D27		
2652	G16	3684	C28		
2653	F15	3686	D25		
2654	F15	3687	E26		
2669	E15	3688	E27		
2673	C26	3689	E27		
2682	D26	3691	E28		
2688	E26	3692	E25		
2695	G26	3694	F25		
2696	G29	3695	G26		
2697	F29	3696	G27		
3107	B31	3697	G28		
3108	B30	3698	F28		
3109	B30	5111	A32		
3110	A31	5121	B32		
3111	A32	5131	D32		
3112	B32	5133	D32		
3117	D31	5134	F31		
3118	C30	5135	E30		
3119	C30	5140	F30		
3120	B31	5290	L37		
3121	C32	5291	J34		
3122	C32	5295	O37		
3127	E31	5510	H28		
3128	E30	5512	J23		
3129	D30	5513	J23		
3130	D31	5522	J29		
3131	D32	5523	L28		
3132	D32	5524	L28		
3138	E32	5541	N30		
3139	F32	5662	C23		
3257	H17	5663	D23		
3258	H17	6112	A32		
3261	K16	6122	B32		
3262	L16	6132	D32		
3263	L15	6304	M9		
3264	L16	6361	O2		
3266	H16	6510	J22		
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3288	L33	6546	H25		
3289	K34	6547	H23		
3293	N32	6548	H24		
3294	N34	6560	N16		
3295	L34	6646	D21		
3296	N36	6647	D21		
3297	M36	6650	A15		
3298	M33	6661	C22		
3301	M9	6662	C22		
3302	M9	6663	C23		
3304	N10	6664	O24		
3306	M10	6665	C25		
3307	M10	6666	A25		
3308	M11	6667	F17		
3309	O11	6674	A27		
3311	H1	6675	A28		
3316	J3	6992	E26		
3347	K3	7110	A31		
3353	K2	7120	B31		
3353	N19	7130	D31		
		7270	I12		

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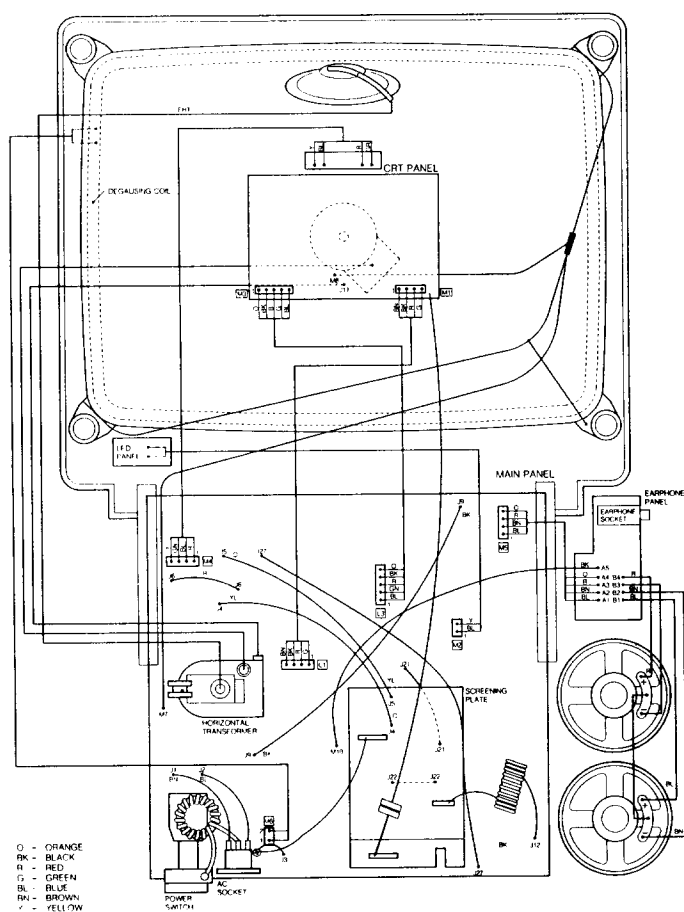
WAVE FORMS



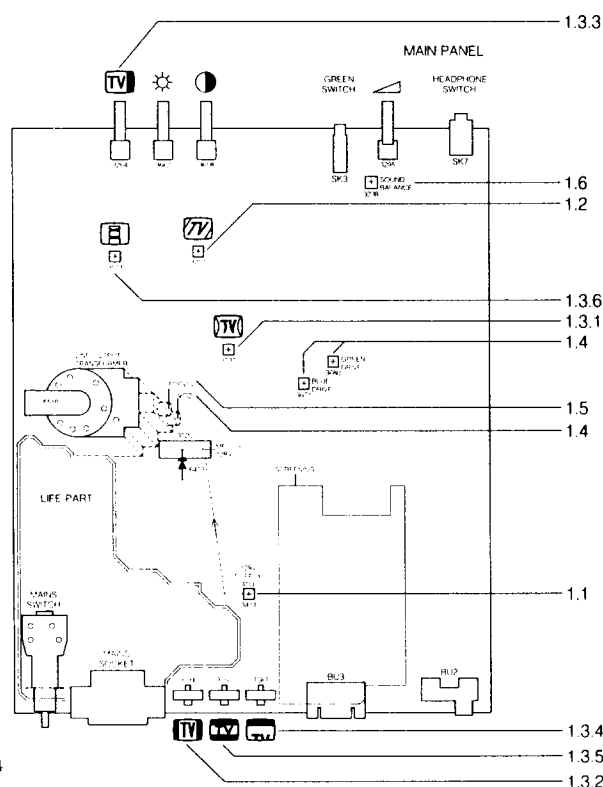
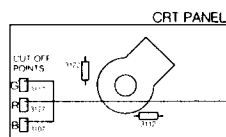
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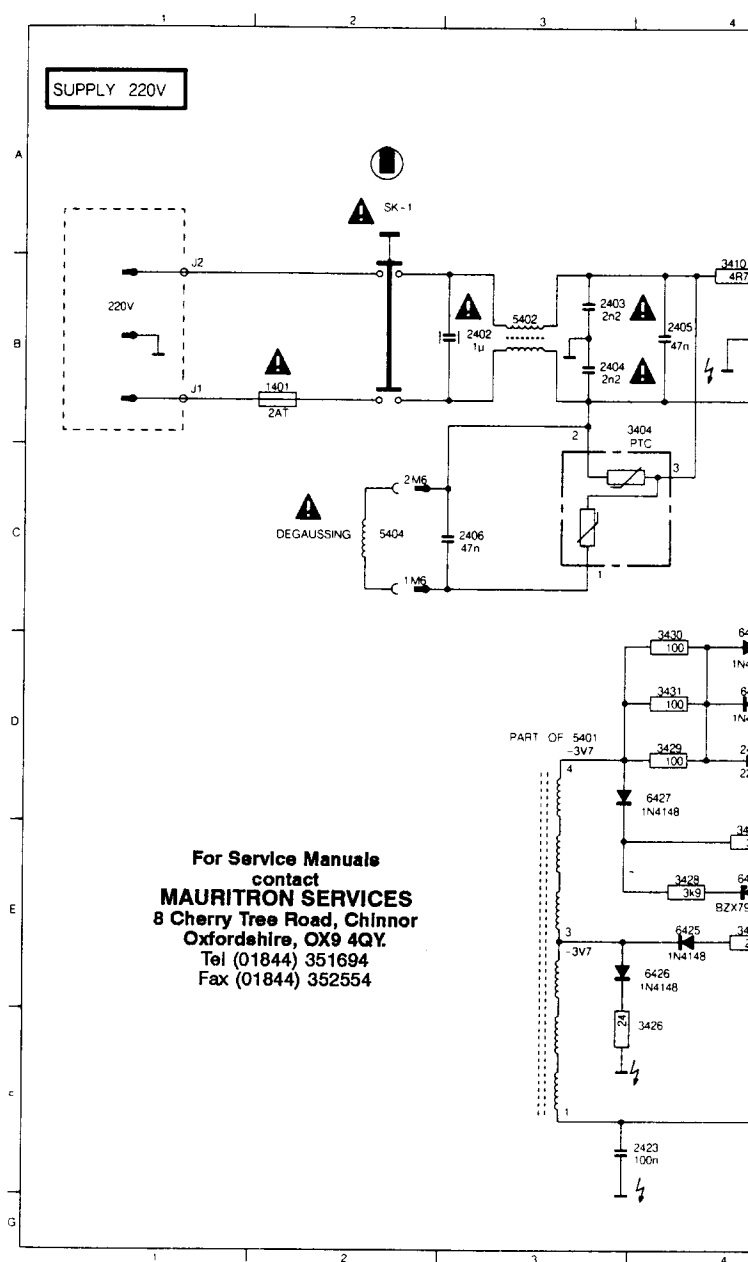
WIRING DIAGRAM



LOCATION OF ADJUSTING COMPONENTS



POWER SUPPLY CIRCUIT DIAGRAM (on main panel) 220 V



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CAUTION

- 1) Safety requirements stipulate that, during repair, the set should be restored to its original state and that parts identical to the specified ones, should be applied.
- 2) For safety reasons, the parts indicated with the sign **⚡** should be replaced by identical parts (for code numbers see electrical parts lists).
- 3) To avoid damage to ICs and transistors, flash-over of the high-tension should be avoided.
- 4) Be careful when performing measurements in the high-tension section and on the picture tube.
- 5) Never change parts when the set is still switched on.
- 6) Safety goggles must be worn during replacement of the picture tube.

ELECTRICAL ADJUSTMENTS

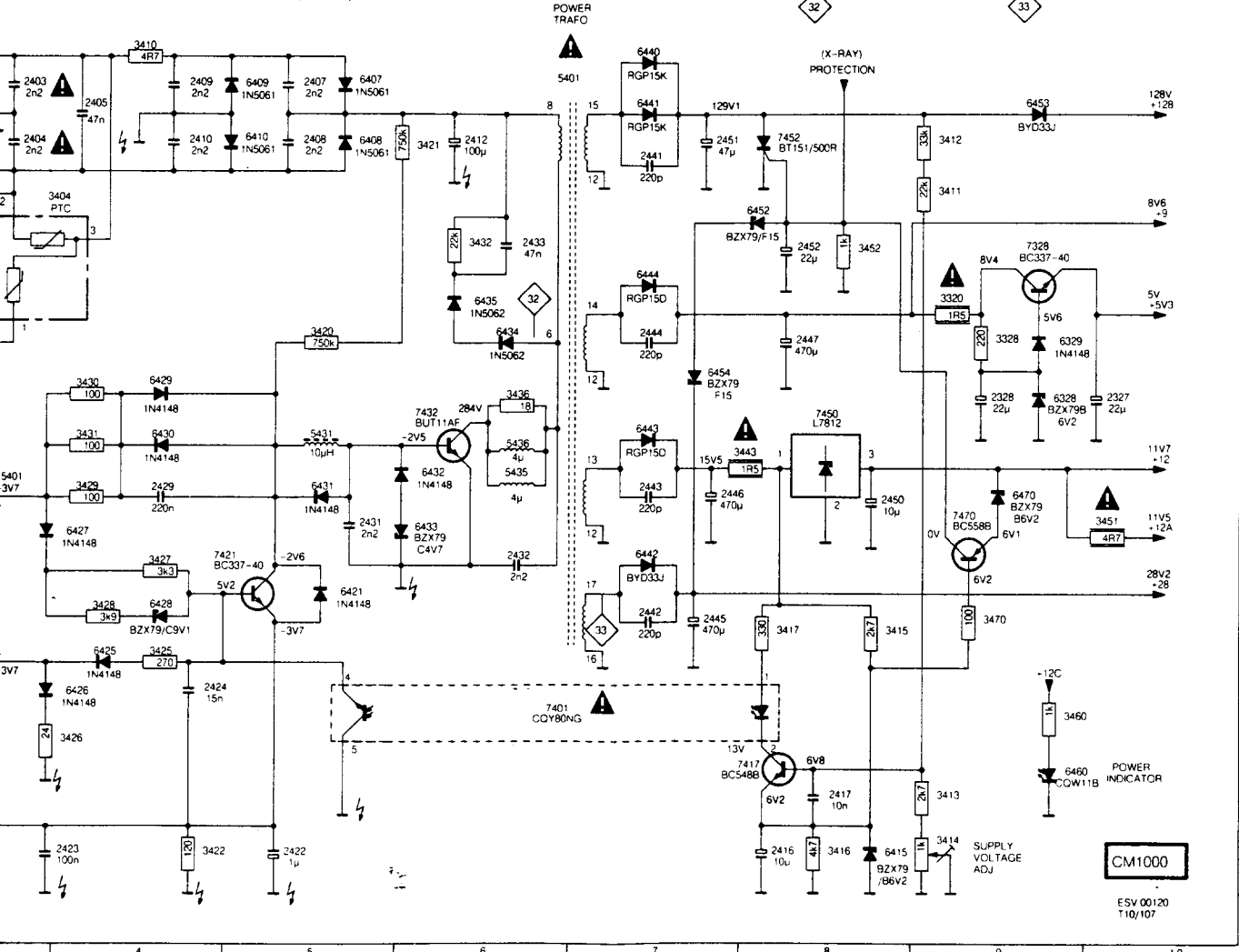
1. ADJUSTMENTS ON THE CHASSIS

- 1.1 +128V supply voltage (3414)
- 1.2 Horizontal synchronization (3257)
- 1.3 Apply video signal (cross-hatch pattern) to the monitor.
- 1.4 Set volume control 3295, brightness control 3662 and contrast control 3658 to minimum.
- 1.5 Set trimming potentiometer 3414 in mid-position. (This is a presetting).
- 1.6 Connect DC voltmeter to junction of resistor 3520 and diode 6453.
- 1.7 Switch on monitor.
- 1.8 With trimming potentiometer 3414 set the DC voltage at junction 3524/6453 to 128V.

- 1.9 Horizontal synchronization (3257)
- 1.10 Apply video signal (cross-hatch pattern) to the monitor.

Panel) 220 V

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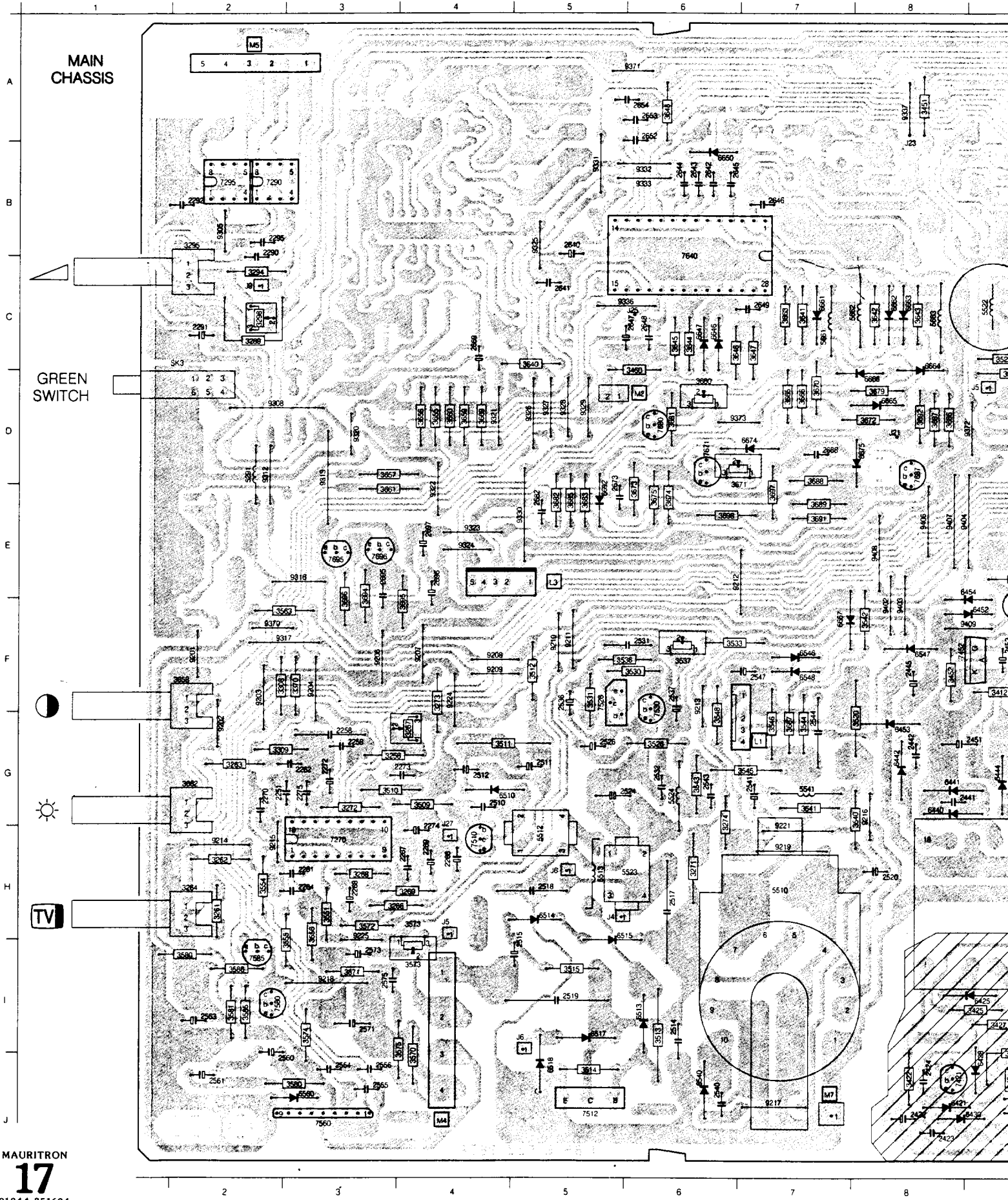


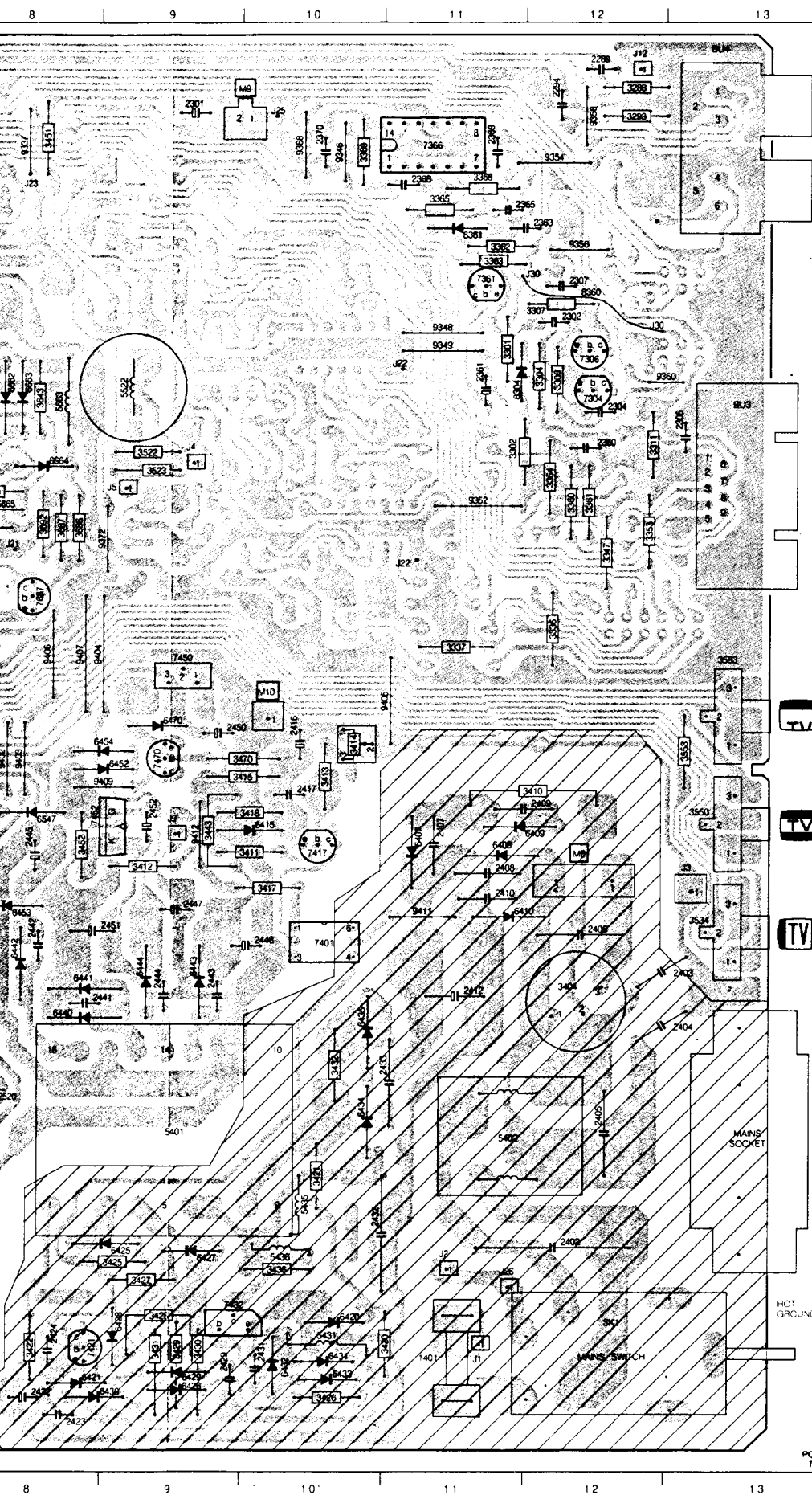
1401 - B2	6454 - D7
2327 - D10	6460 - F9
2328 - D9	6470 - D9
2402 - B3	7328 - C9
2403 - B3	7401 - E5
2404 - B3	7417 - F8
2405 - B4	7421 - E5
2406 - C3	7432 - D6
2407 - B5	7450 - D8
2408 - B5	7452 - B8
2409 - B4	7470 - E9
2410 - B4	J1 - B1
2412 - B6	J2 - B1
2416 - F8	M6 - C2
2417 - F8	SK - 1 - B2
2422 - F5	
2423 - F3	
2424 - E4	
2429 - D4	
2431 - D5	
2432 - E5	
2433 - C5	
2441 - B7	
2442 - E7	
2443 - D7	
2444 - C7	
2445 - E7	
2446 - D7	
2447 - C8	
2450 - D8	
2451 - B7	
2452 - C8	
3320 - C9	
3328 - C9	
3404 - C3	
3410 - B4	
3411 - B9	
3412 - B9	
3413 - F9	
3414 - F9	
3415 - E8	
3416 - F8	
3417 - E8	
3420 - C5	
3421 - B6	
3422 - F4	
3425 - E4	
3426 - E3	
3427 - E4	
3428 - E4	
3429 - D4	
3430 - D4	
3431 - D4	
3436 - D6	
3436 - D6	
3443 - D7	
3451 - D10	
3452 - C8	
3460 - E9	
3470 - E9	
5401 - B6	
5401 - E3	
5402 - B3	
5404 - C2	
5431 - D5	
5435 - D6	
5436 - D6	
6328 - C9	
6329 - C9	
6407 - B5	
6408 - B5	
6409 - B5	
6410 - B5	
6415 - F8	
6421 - E5	
6425 - E4	
6426 - E3	
6427 - E3	
6428 - E4	
6429 - D4	
6430 - D4	
6431 - D5	
6432 - D6	
6433 - E6	
6434 - C6	
6435 - C6	
6440 - B7	
6441 - B7	
6442 - E7	
6443 - D7	
6444 - C7	
6452 - C7	
6453 - B9	

- Set trimmer potentiometer 3414 in mid-position. (This is a presetting).
- Connect DC voltmeter to junction of resistor 3520 and diode 6453.
- Switch on monitor.
- With trimming potentiometer 3414 set the DC voltage at junction 3524/6453 to 128V.
- 1.2 Horizontal synchronization (3257)**
 - Apply video signal (cross-hatch pattern) to the monitor.
 - Short capacitor 2270. (This capacitor is connected to pin 5 of IC 7270.)
 - With trimming potentiometer 3257, adjust the picture so that it is straight.
 - Remove the short-circuit on 2270.
- 1.3 Picture position**

General: For the following adjustments apply a video signal (cross-hatch pattern) to the monitor.

 - 1.3.1 East-west correction (3537)**
 - With potentiometer 3537, make the vertical lines on the left and right-hand side of the screen as straight as possible.
 - 1.3.2 Picture width (3534)**
 - With potentiometer 3534, set the picture width for 14 blocks to 260 mm.
 - 1.3.3 Horizontal picture centering (3264)**
 - With potentiometer 3264, set the correct horizontal centering.
 - 1.3.4 Vertical picture centering (3583)**
 - With potentiometer 3583, set the correct vertical picture centering.
 - 1.3.5 Picture height (3550)**
 - With potentiometer 3550, set the picture height for 10 blocks to 186 mm.
 - 1.3.6 Vertical linearity (3573)**
 - Adjust the correct vertical linearity with Pre-set potentiometer 3573. If necessary repeat 1.3.5 and 1.3.6.
 - 1.4 Setting of:**
 - VG2 (bottom knob on the line output transformer)
 - cut-off points of the picture tube (3107, 3117 and 3127)
 - white 'D' (3671, 3680)
 - Set the brightness to 1/4 of its range and set the contrast to minimum.
 - Set the potentiometers 3107, 3117, 3127, 3671 and 3680 in mechanical mid-position.
 - Set VG2 potentiometer to minimum.
 - Set the signal generator in 'pur' position and introduce the respective colours red, green and blue.
 - Using potentiometers 3107, 3117 and 3127 with the corresponding colour pattern, set the voltage on the picture tube pins 8, 6 and 11 to 100V.
 - Apply a white frame and adjust the VG2 potentiometer so that any colour among red, green or blue becomes visible.
 - Set the pattern generator to purity with the colour that was first visible.
 - Reset VG2 potentiometer to just visible light.
 - Adjust the two remaining colours with their corresponding purity colour to the same light output using potentiometers 3107, 3117 or 3127.
 - Return the signal generator to white frame and adjust the potentiometers 3107, 3117 and 3127 so that an optimum background colour is obtained.
 - Using potentiometers 3671 and 3680 (with white frame) adjust the background colour so that at minimum brightness and maximum brightness the background colour is the same.
 - 1.5 Focusing (top knob on line output transformer)**
 - Apply white pattern to monitor.
 - Adjust focusing so that the picture at 2/3 of the diagonal lines (counting from center to four corners) of the displayed screen is as sharp as possible.
 - 1.6 Audio balance (3298)**
 - Apply sinusoidal signal of 177mVrms (1kHz) to both audio inputs L/R.
 - Set volume control in mid-position.
 - Replace the two loudspeakers with a 16Ω resistor.
 - Set 3298 so that the output level on both 16Ω resistors is the same.





J1	J11	2649	C7	3644	C6	7671	D6
J2	J11	2652	A6	3645	C6	7680	D6
J3	F13	2653	A6	3646	C6	7687	D8
J4	C9	2654	A6	3646	C6	7695	C5
J4	H5	2669	C4	3647	C7	7696	C5
J6	J9	2669	E5	3647	C7	8360	B12
J5	H4	2673	E6	3648	A6	9201	F2
J6	H5	2682	E5	3655	D4	9202	G2
J6	I5	2682	E5	3656	D4	9203	F2
J1	G2	2688	D7	3656	D4	9204	F3
J19	J9	2688	C3	3657	D3	9206	F3
J1	C7	2693	E3	3681	O3	9207	F4
L1	E5	2696	E4	3658	F2	9208	F4
M2	D6	2697	E4	3659	D4	9209	F4
M4	J4	3257	G4	3660	D4	9210	F5
J1	C2	3258	G3	3661	C3	9211	F5
M6	F12	3261	H2	3681	E3	9212	E6
M7	J7	3261	H2	3662	G2	9213	G6
B03	C13	3262	H2	3663	C7	9214	H2
B04	A13	3263	G2	3663	C7	9215	H2
J1	C2	3263	H2	3664	C7	9216	B2
J21	D8	3266	H3	3666	D7	9217	J7
J22	C11	3268	H3	3667	G7	9218	I3
J22	D11	3268	H3	3669	D4	9219	H7
J23	B8	3269	H4	3670	D7	9221	H7
J19	J9	3270	H4	3670	D7	9224	H7
J25	C6	3272	G3	3672	D8	9225	H3
J26	I11	3273	F4	3673	E6	9302	F4
J27	H4	3274	H6	3674	E6	9305	D2
E10	E10	3283	A12	3675	E6	9312	D2
S2	A12	3284	A12	3676	E6	9313	D2
SK3	C1	3298	A12	3680	D6	9316	E3
A01	J11	3294	C2	3681	D6	9317	F2
2251	G2	3295	B2	3681	D6	9320	D3
2258	G3	3298	C2	3682	E5	9321	D4
2260	C11	3300	C11	3682	E5	9322	F2
2261	H3	3302	C11	3685	E5	9323	E4
2262	G3	3302	C12	3686	D8	9324	E4
2264	H3	3304	C12	3687	D8	9325	B5
2266	H4	3306	E2	3688	E7	9326	B5
2267	H4	3307	B12	3689	E7	9327	D5
2268	H3	3307	B12	3689	E7	9328	D5
2269	H4	3308	F2	3691	E7	9329	D5
2270	G2	3309	G2	3691	E7	9330	E5
2271	G3	3310	E2	3692	D8	9331	B6
2272	G3	3336	O10	3693	F3	9332	H6
2273	G3	3337	E11	3694	F3	9333	B6
2274	G3	3347	D12	3695	F4	9336	C5
2277	H4	3353	D12	3695	F4	9337	A8
2278	G3	3354	D12	3696	F4	9346	O10
2275	G3	3361	D12	3697	E7	9348	C11
2289	A12	3362	B11	3698	E6	9349	C11
2290	G2	3363	B11	5291	D2	9352	D1
2291	C2	3364	D12	5401	H9	9354	A12
2292	G2	3365	B11	5401	H9	9356	B12
2294	A12	3365	B11	5431	J10	9358	A12
2295	B2	3368	A11	5435	I10	9360	C12
3301	A9	3369	A10	5436	I10	9368	O10
3302	B12	3370	F3	5510	H7	9370	F2
3303	C12	3371	F3	5510	H7	9371	A5
3305	C13	3410	F11	5513	H5	9372	D9
3307	B12	3411	F9	5522	C9	9373	D6
3360	C12	3412	F9	5523	H5	9402	F8
3360	C12	3413	F10	5524	G6	9403	F8
3361	F11	3413	F9	5525	H5	9404	E9
3363	B12	3415	F9	5661	C7	9405	E11
3365	B11	3416	F9	5662	C8	9406	E8
3365	B11	3417	G10	5663	C8	9407	E8
3368	B11	3420	J11	6304	C11	9408	E8
3370	A10	3421	J11	6407	F11	9409	F8
3370	A10	3422	J8	6407	F11	9411	G11
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403	G13	3427	J9	6410	G11		
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406	G12	3430	J9	6421	J8		
407	F11	3431	J9	6425	I9		
409	F12	3431	H10	6426	J9		
409	F12	3436	I10	6427	J9		
410	G11	3443	F9	6428	J9		
412	G11	3451	A8	6429	J9		
416	E10	3452	F8	6430	J9		
417	F10	3457	F8	6430	J9		
422	J8	3470	F9	6432	J10		
423	J8	3509	G4	6433	J10		
424	J8	3510	G3	6434	H10		
429	J9	3510	G3	6435	G10		
431	J10	3511	F4	6436	G8		
432	I10	3512	F5	6441	G6		
433	H11	3513	I6	6442	G8		
441	G8	3514	J5	6443	G9		
442	G8	3515	I5	6444	G9		
443	G9	3520	G8	6445	G8		
444	G9	3522	C9	6453	G8		
445	F8	3523	D9	6454	E8		
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514	I6	3536	F5	6546	F7		
515	I5	3537	F6	6547	F8		
517	H6	3540	H8	6548	F7		
518	H5	3541	G7	6550	J3		
519	I5	3542	F8	6550	G5		
520	H8	3543	G6	6647	C6		
524	G5	3543	G6	6650	B6		
526	G5	3544	G7	6661	C7		
531	F6	3545	G6	6662	C8		
532	G6	3546	G7	6663	C8		
536	F5	3548	G6	6664	C8		
537	F6	3550	F13	6665	D8		
540	J6	3551	H3	6666	D8		
541	G7	3552	F3	6667	F7		
543	G6	3555	H2	6674	D7		
544	G7	3555	I3	6675	D8		
547	J7	3556	I3	6692	E5		
554	F3	3556	I3	7270	H3		
555	J3	3557	G3	7271	B2		
556	J3	3563	F2	7295	B2		
560	J2	3570	J4	7304	C12		
562	J2	3571	I3	7306	C11		
563	J2	3572	H3	7308	A12		
571	F3	3573	H4	7366	C11		
573	I3	3573	I4	7401	G10		
575	I3	3574	I3	7417	F10		
640	B5	3575	J4	7421	J8		
641	B5	3576	I2	7422	J8		
642	B6	3581	I2	7450	E9		
642	B6	3583	E13	7452	F8		
643	B6	3585	I2	7470	F9		
643	B6	3586	I2	7510	H4		
644	B5	3590	C5	7520	F7		
644	B6	3641	C7	7526	F5		
644	B6	3641	C7	7530	G3		
6446	B7	3642	C8	7560	J3		
645	B7	3643	C8	7561	J3		
648	C6	3643	C8	7565	I2		
648	C6	3644	C6	7640	C6		

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