

7) Keep pressing ENTER KEY until OSD bar of RECALL comes to be MAX. to save the data(OSD will be back to MAIN-MENU.).

3.7. Ver. size adjustment

- 1) Display cross-hatch pattern of the 60.023KHz @ 75.029Hz, 1024 X 768 mode.
- 2) After pressing DOWN KEY, press POWER KEY. Then OSD for factory mode will be shown.
- 3) Position OSD bar at V-SIZE of FACTORY MODE by pressing UP or DOWN KEY.
- 4) After pressing ENTER KEY, adjust V-SIZE to be $225 \pm 3\text{mm}$ by using UP or DOWN KEY.
- 5) Adjust V-SIZE for the other modes.
- 6) When adjustment is finished, press EXIT KEY and position OSD bar at RECALL of FACTORY MODE by using UP or DOWN KEY.
- 7) Keep pressing ENTER KEY until OSD bar of RECALL comes to be MAX. to save the data (OSD will be back to MAIN-MENU.).

3.8. Ver. position adjustment

- 1) Display cross-hatch pattern of the 60.023KHz @ 75.029Hz, 1024 X 768 mode.
- 2) After pressing DOWN KEY, press POWER KEY. Then OSD for factory mode will be shown.
- 3) Position OSD bar at V-POSITION of FACTORY MODE by pressing UP or DOWN KEY.
- 4) After pressing ENTER KEY, adjust V-POSITION to be $|T-B| \leq 3\text{mm}$ by using UP or DOWN KEY.
- 5) Adjust V-POSITION for the other modes.
- 6) When adjustment is finished, press EXIT KEY and position OSD bar at RECALL of FACTORY MODE by using UP or DOWN KEY.
- 7) Keep pressing ENTER KEY until OSD bar of RECALL comes to be MAX. to save the data(OSD will be back to MAIN-MENU.).

3.9. Side-Pin Adjustment.

- 1) Display cross-hatch pattern of the 60.023KHz @ 75.029Hz, 1024 X 768 mode.
- 2) After pressing DOWN KEY press POWER KEY. Then OSD for factory mode will be shown.
- 3) Position OSD bar at SIDE-PIN of FACTORY MODE by pressing UP or DOWN KEY.
- 4) After pressing ENTER KEY, adjust SIDE-PIN to be $\leq 2.0\text{mm}$ by using UP or DOWN KEY.
- 5) Adjust SIDE-PIN for the other modes.
- 6) When adjustment is finished, press EXIT KEY and position OSD bar at RECALL of FACTORY MODE by using UP or DOWN KEY.
- 7) Keep pressing ENTER KEY until OSD bar of RECALL comes to be MAX. to save the data(OSD will be back to MAIN-MENU.).

3.10. Pin Balance

- 1) Display cross-hatch pattern of the 60.023KHz @ 75.029Hz, 1024 X 768 mode.
- 2) After pressing DOWN KEY press POWER KEY. Then OSD for factory mode will be shown.
- 3) Position OSD bar at PIN BALANCE of FACTORY MODE by pressing UP or DOWN KEY.
- 4) After pressing ENTER KEY, adjust PIN BALANCE to be $\leq 2.0\text{mm}$ by using UP or DOWN KEY.
- 5) Adjust PIN BALANCE for the other modes.
- 6) When adjustment is finished, press EXIT KEY and position OSD bar at RECALL of FACTORY MODE By using UP or DOWN KEY
- 7) Keep pressing ENTER KEY until OSD bar of RECALL comes to be MAX. to save the data(OSD will be back to MAIN-MENU.).

3.11. Trapezoid adjustment.

- 1) Display cross-hatch pattern of the 60.023KHz @ 75.029Hz, 1024 X 768 mode.
- 2) After pressing DOWN KEY press POWER KEY. Then OSD for factory mode will be shown.

Adjustment Specification

1. Adjustment Condition

Allow a minimum warm-up time of 15 minute before proceeding with a adjustment.

2. Adjustment Procedure

B+ Voltage → FBT B+ Voltage → G2 Voltage → Hor. Center → Hor. Size → Hor. position
→ Ver. Size → Ver. Position → Side-Pin → Pin Balance, Trapezoid → Parallelogram
→ Rotation → Focus → White Balance → Convergence

3. Adjustment Procedure

3.1. B+ voltage adjustment

- 1) Display a cross-hatch pattern of the 31.469KHz @ 59.940Hz, 640 X 480 mode.
- 2) After connecting a digital voltage meter between the cathode of D809 and GND, adjust the B+ voltage to $6.35 \text{ V} \pm 0.05\text{V}$ by varying VR801.

3.2. FBT B+ voltage adjustment

- 1) Display a cross-hatch pattern of the 31.469KHz @ 59.940Hz, 640 X 480 mode. After connecting a digital voltage meter between the cathode of D401 and GND, adjust FBT B+ voltage to $59.2 \text{ V} \pm 0.5\text{V}$ by varying VR401.

3.3. G2 Voltage check

Display a cross-hatch pattern of the 31.469KHz @ 59.940Hz, 640 X 480 mode. After connecting a DC high voltage meter between the G2 of the CRT socket and GND, check G2 voltage whether $580\text{V} \pm 30\text{V}$.

3.4. Hor. center adjustment

Display a cross-hatch pattern of the 60.023KHz @ 75.029Hz, 1024 X 768 mode.

- 2) Adjust SW401 mechanical center position.
- 3) Adjust the difference of the right and left distance between the raster and the front mask to be less than 3 mm by varying SW401.

3.5. Hor. size adjustment

- 1) Display cross-hatch pattern of the 60.023KHz @ 75.029Hz, 1024 X 768 mode.
- 2) After pressing DOWN KEY, press POWER KEY. Then OSD for factory mode will be shown.
- 3) Position OSD bar at H-SIZE of FACTORY MODE by pressing UP or DOWN KEY.
- 4) After pressing ENTER KEY, adjust H-SIZE to be $300 \pm 3\text{mm}$ by using UP or DOWN KEY.
- 5) Adjust H-SIZE for the other modes.
- 6) When adjustment is finished, press EXIT KEY and position OSD bar at RECALL of FACTORY MODE by using UP or DOWN KEY.
- 7) Keep pressing ENTER KEY until OSD bar of RECALL comes to be MAX. to save the data(OSD will be back to MAIN-MENU).

3.6. Hor. position adjustment

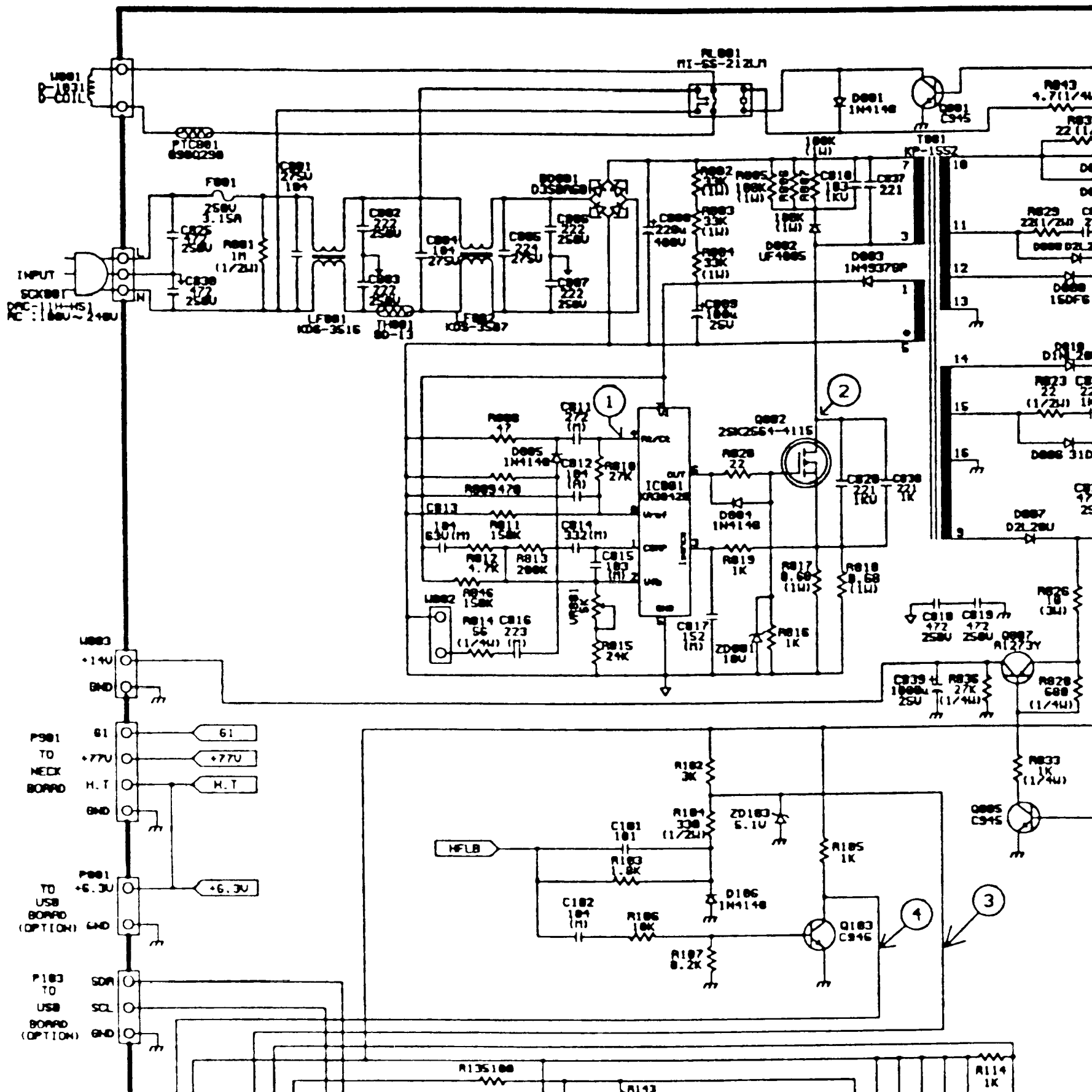
- 1) Display cross-hatch pattern of the 60.023KHz @ 75.029Hz, 1024 X 768 mode.
- 2) After pressing DOWN KEY, press POWER KEY. Then OSD for factory mode will be shown.
- 3) Position OSD bar at H-POSITION of FACTORY MODE by pressing UP or DOWN KEY.
- 4) After pressing ENTER KEY, adjust H-POSITION to be $| \text{L-R} | \leq 3\text{mm}$ by using UP or DOWN KEY.
- 5) Adjust H-POSITION for the other modes.
- 6) When adjustment is finished, press EXIT KEY and position OSD bar at RECALL of FACTORY MODE by using UP or DOWN KEY.

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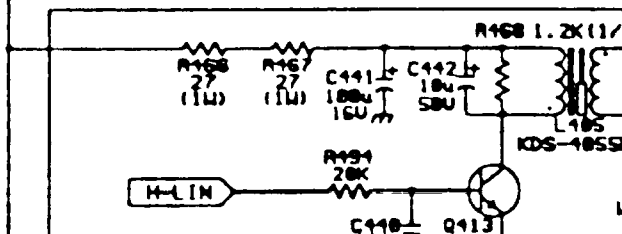
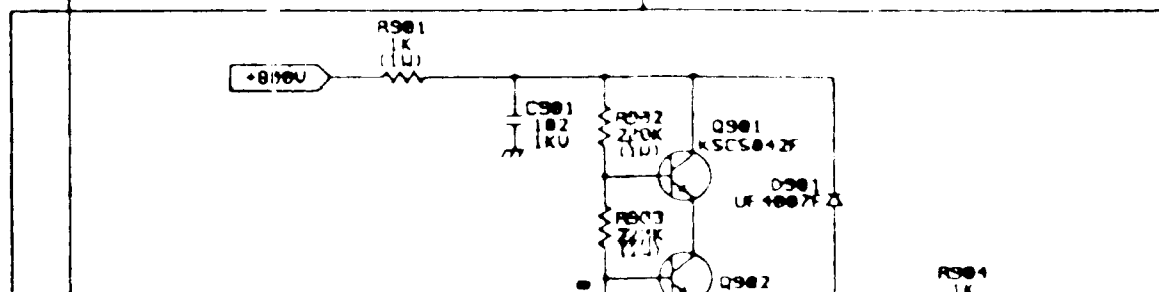
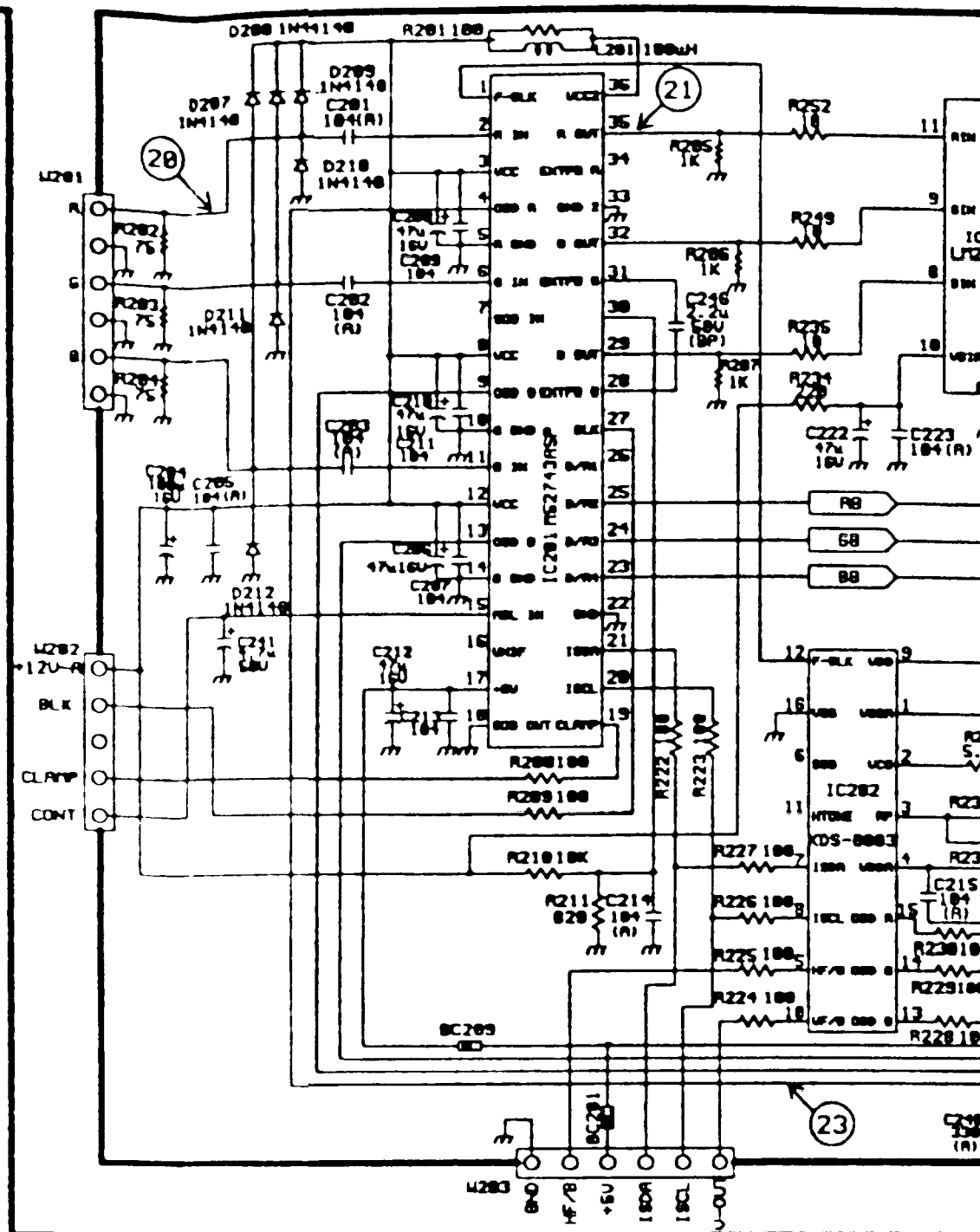
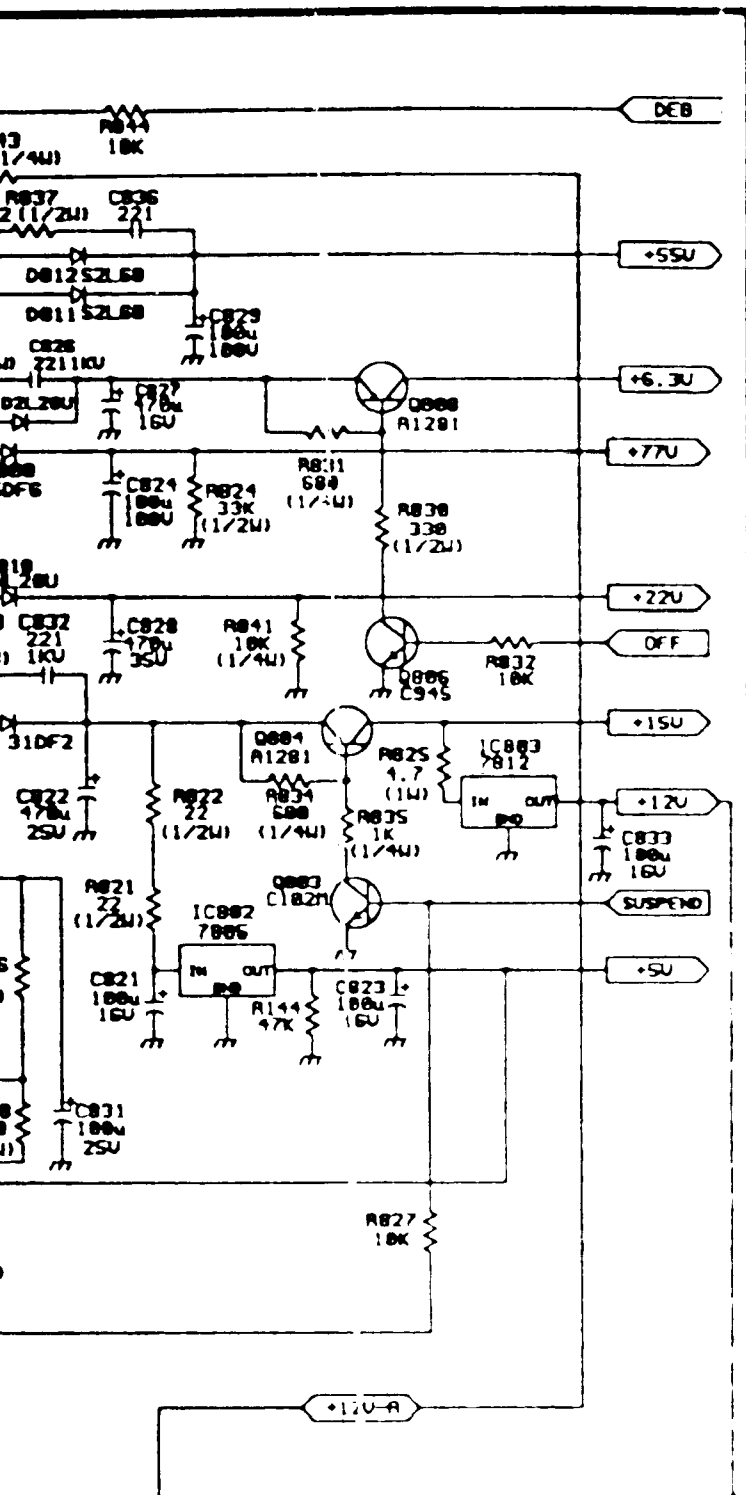
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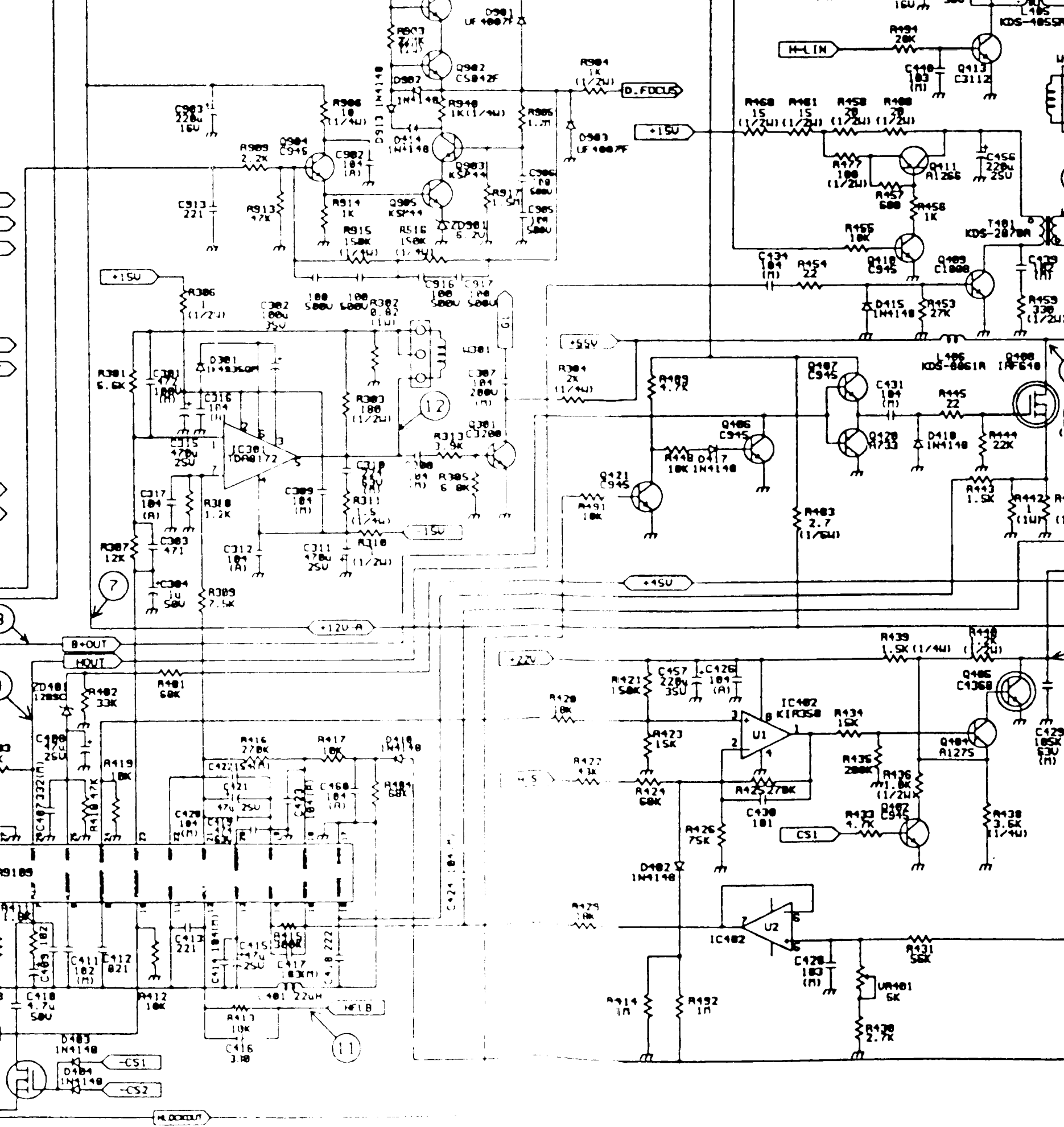
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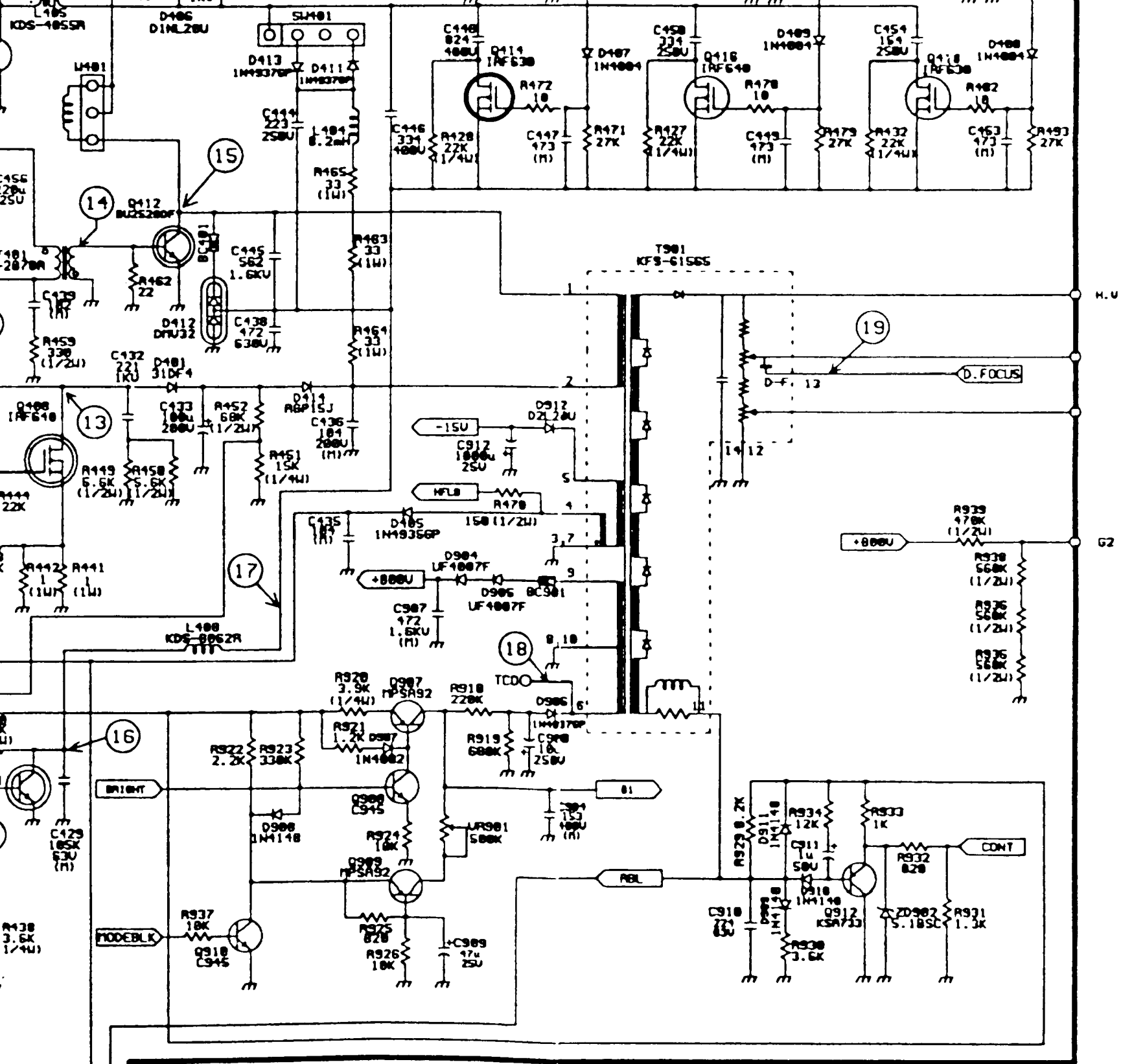
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KDS 1731







DRAWING	DESIGN	CHECK	APPROVAL	MODEL NAME	KD-1731M, ULTRA74	STEP	MP
				DESCRIPTION	MAIN, NECK, POWER	UNIT	mm
				DRAWING NO.	K-98019	SCALE	/
				ADD NO.		DATE	99/01/1
				KOREA DATA SYSTEMS CO., LTD.			SCH

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