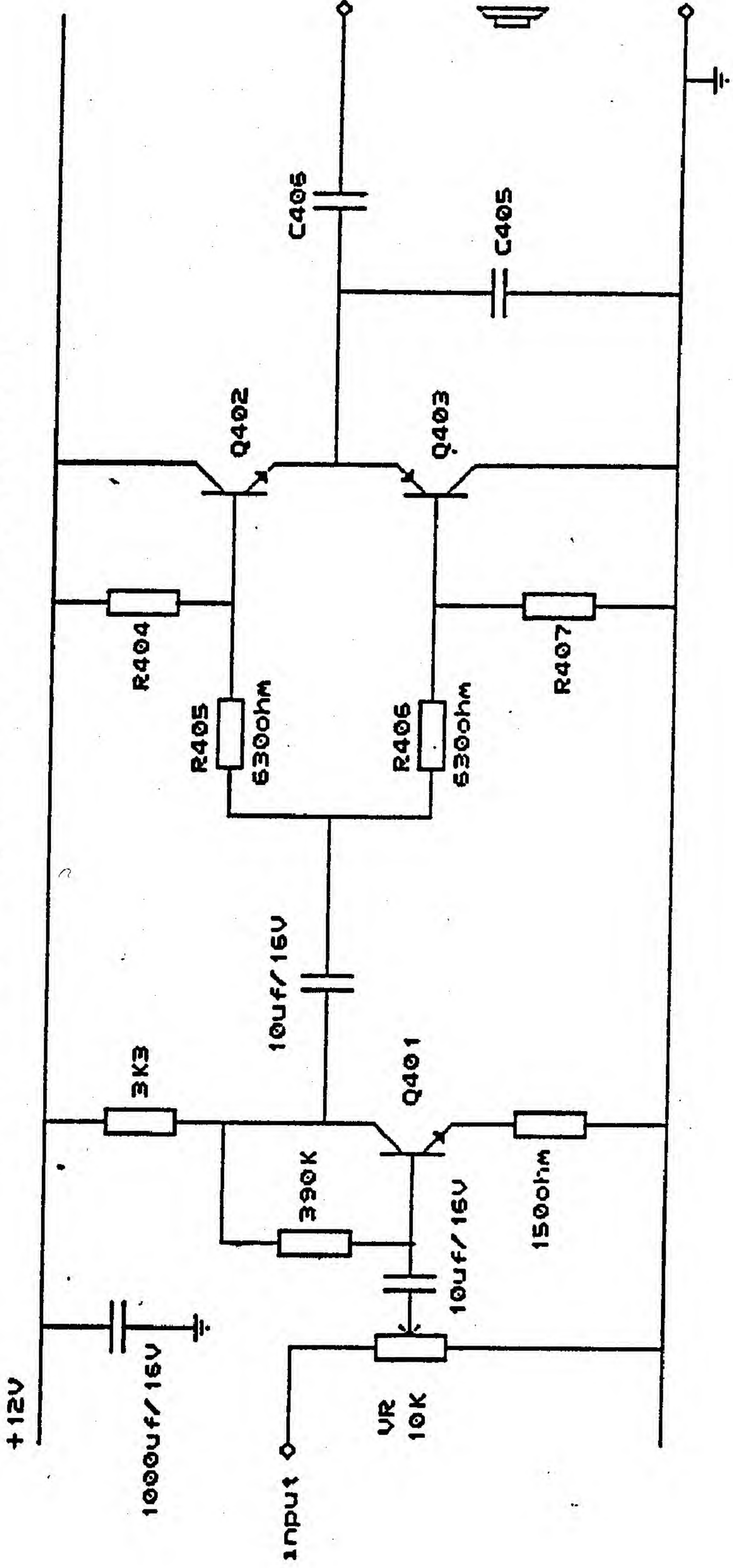
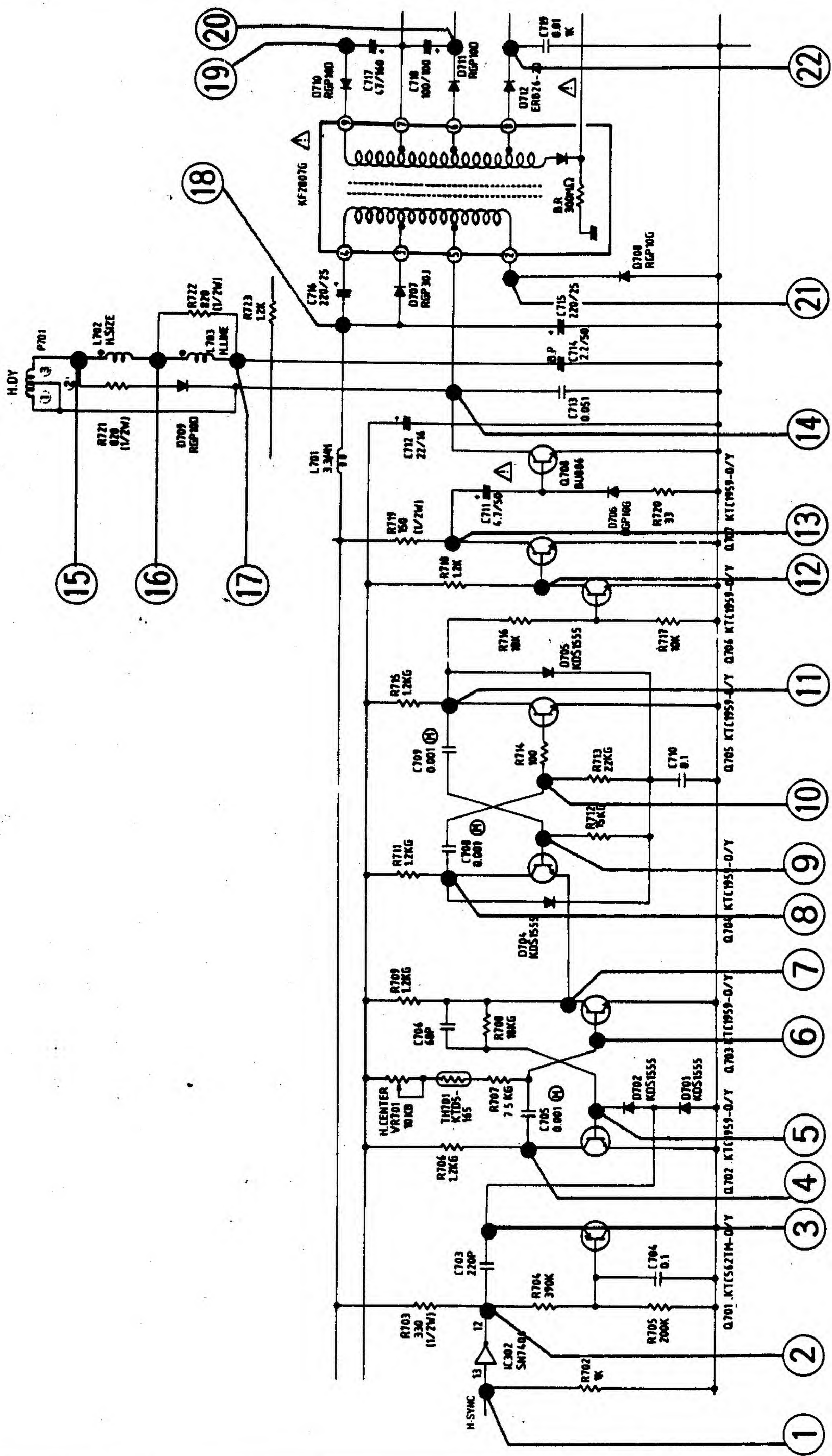
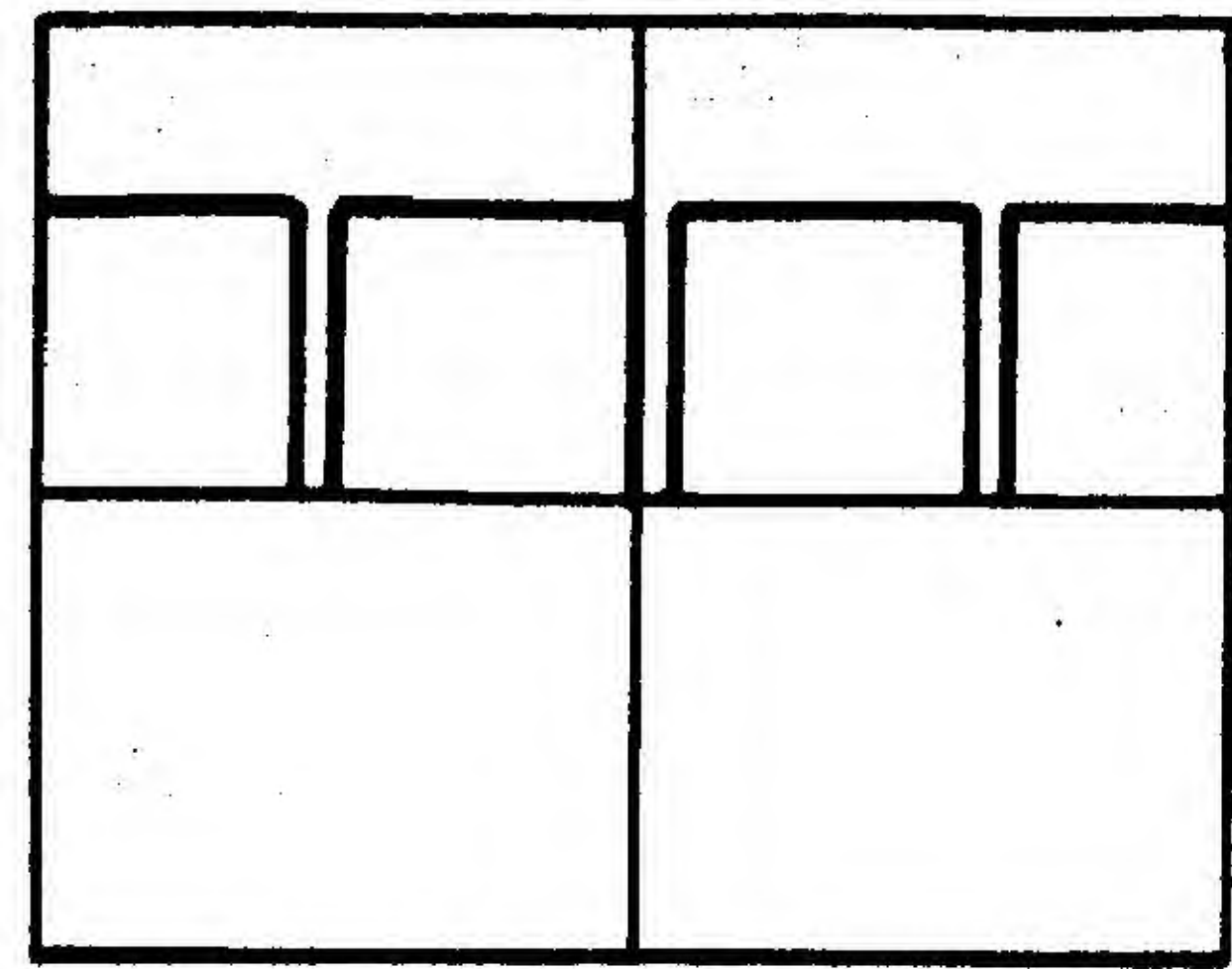


REVISED AUDIO CIRCUIT SM124 MONITOR

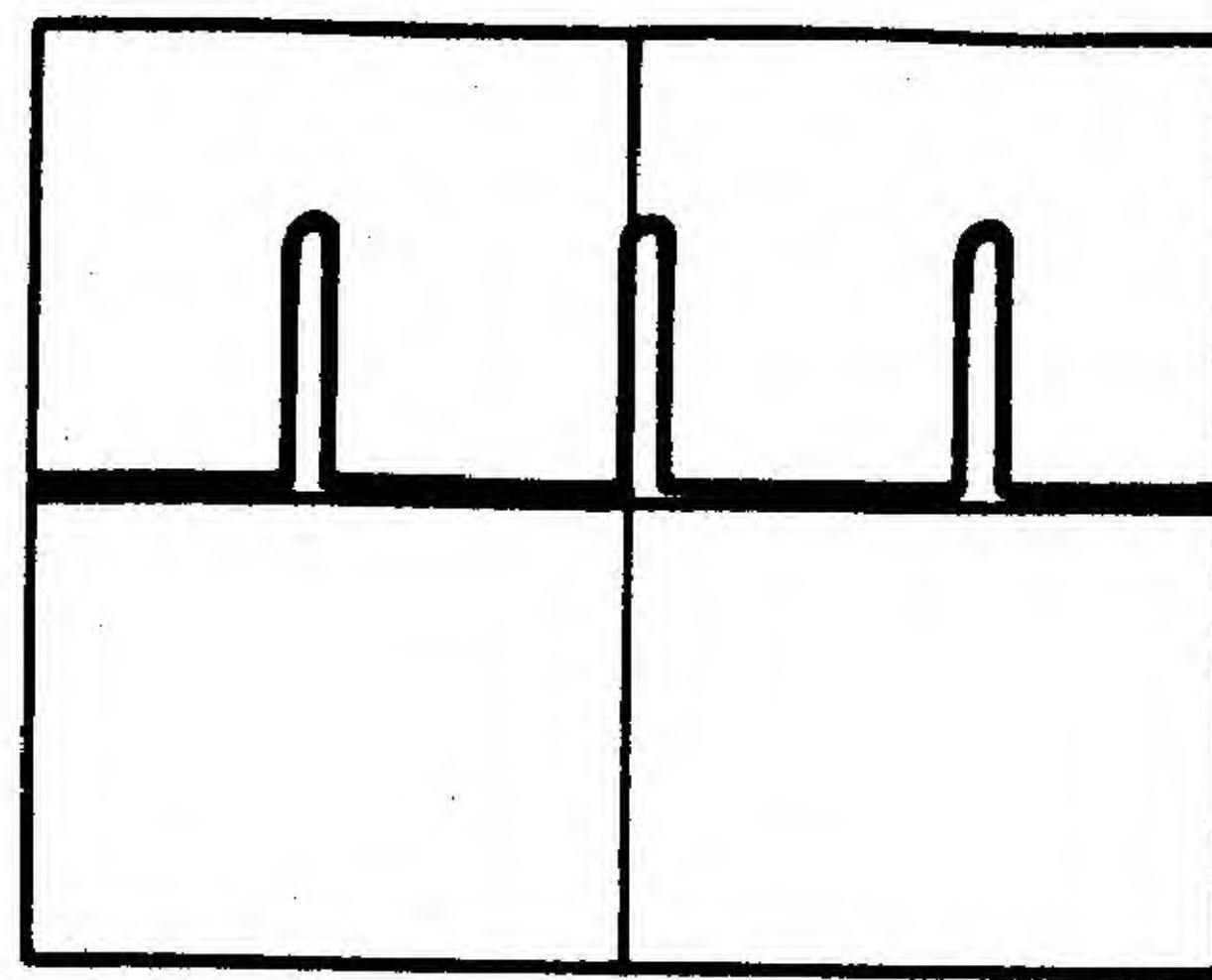


HORIZONTAL DEFLECTION CIRCUIT

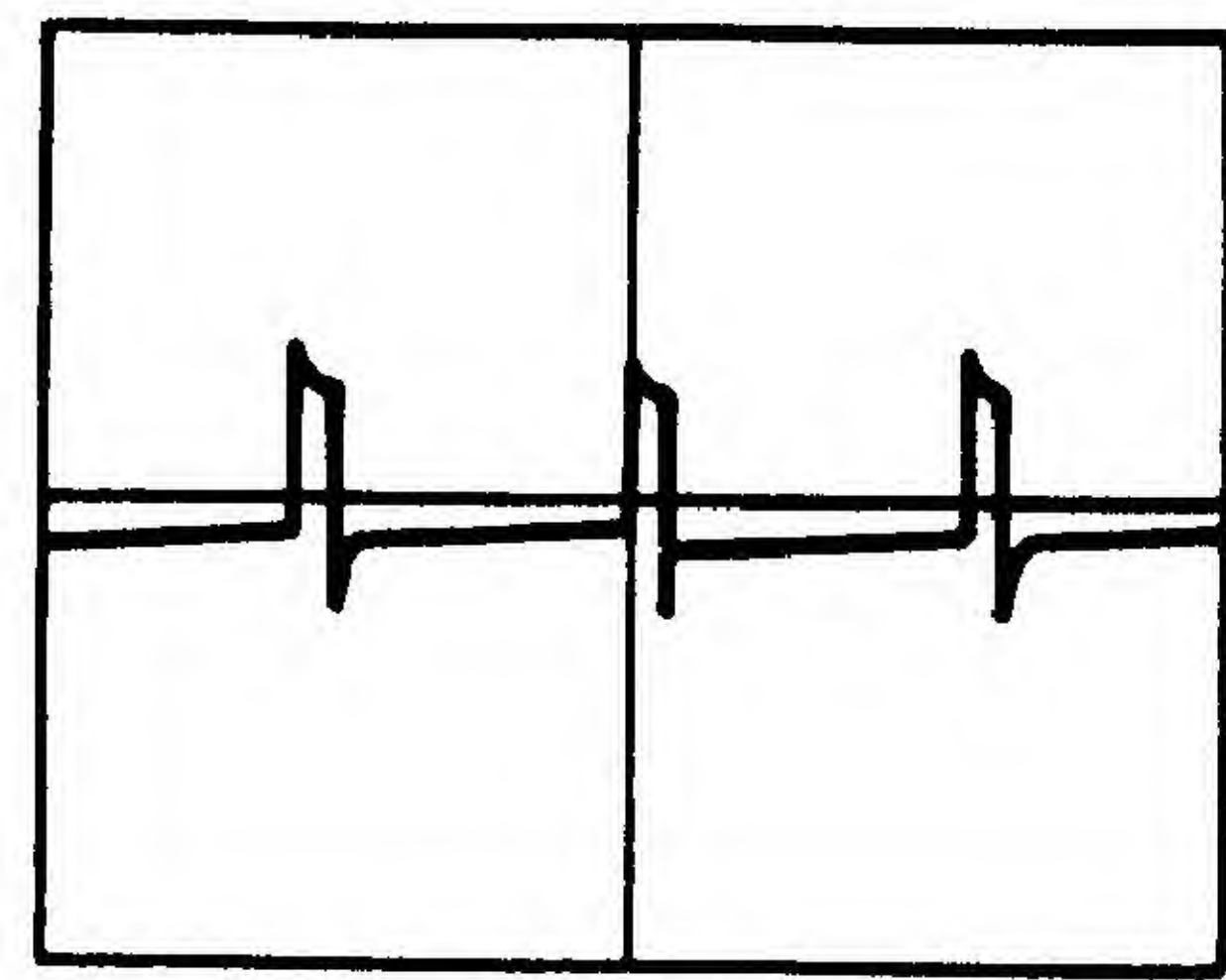




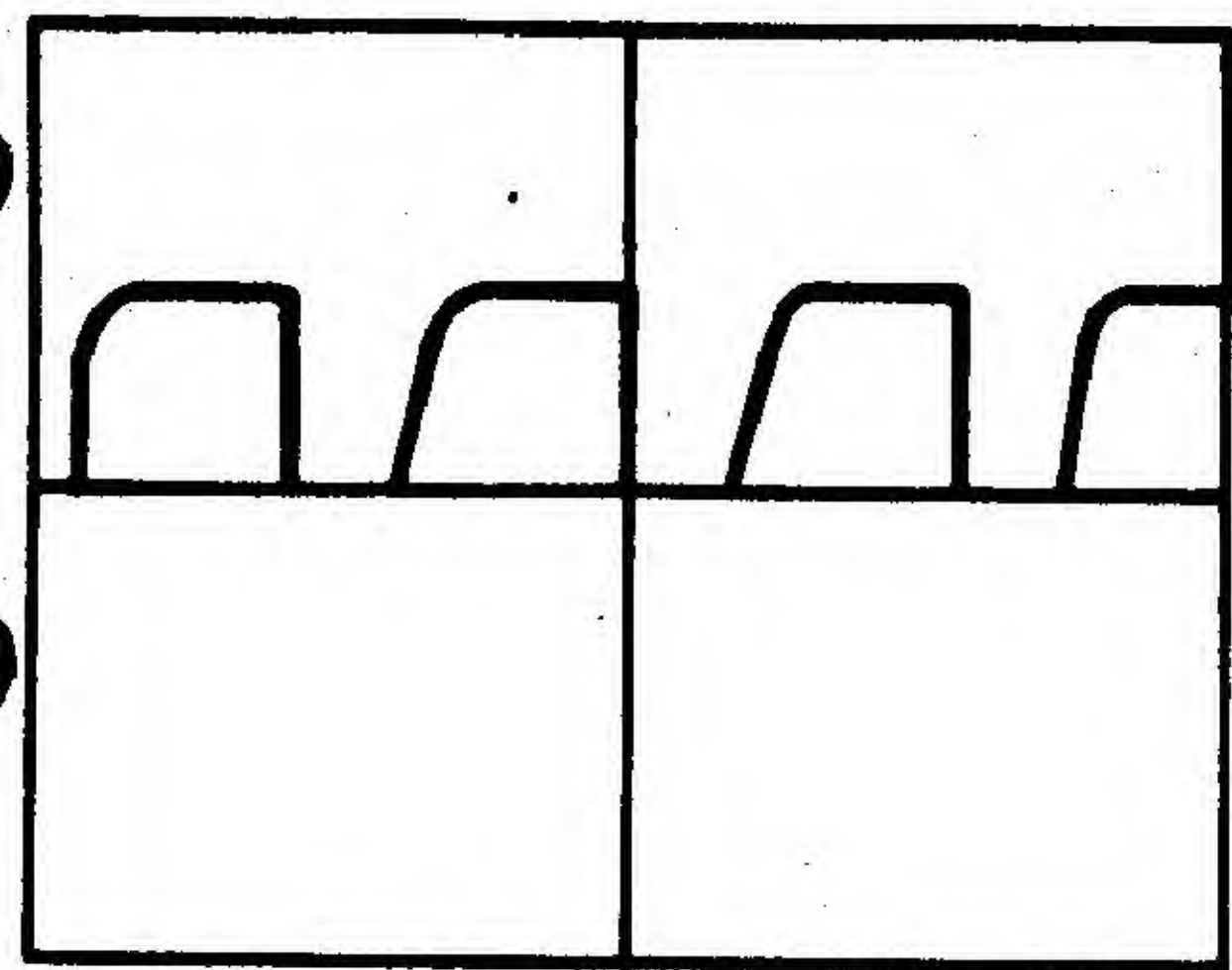
① 5Vp-p
35.7KHz



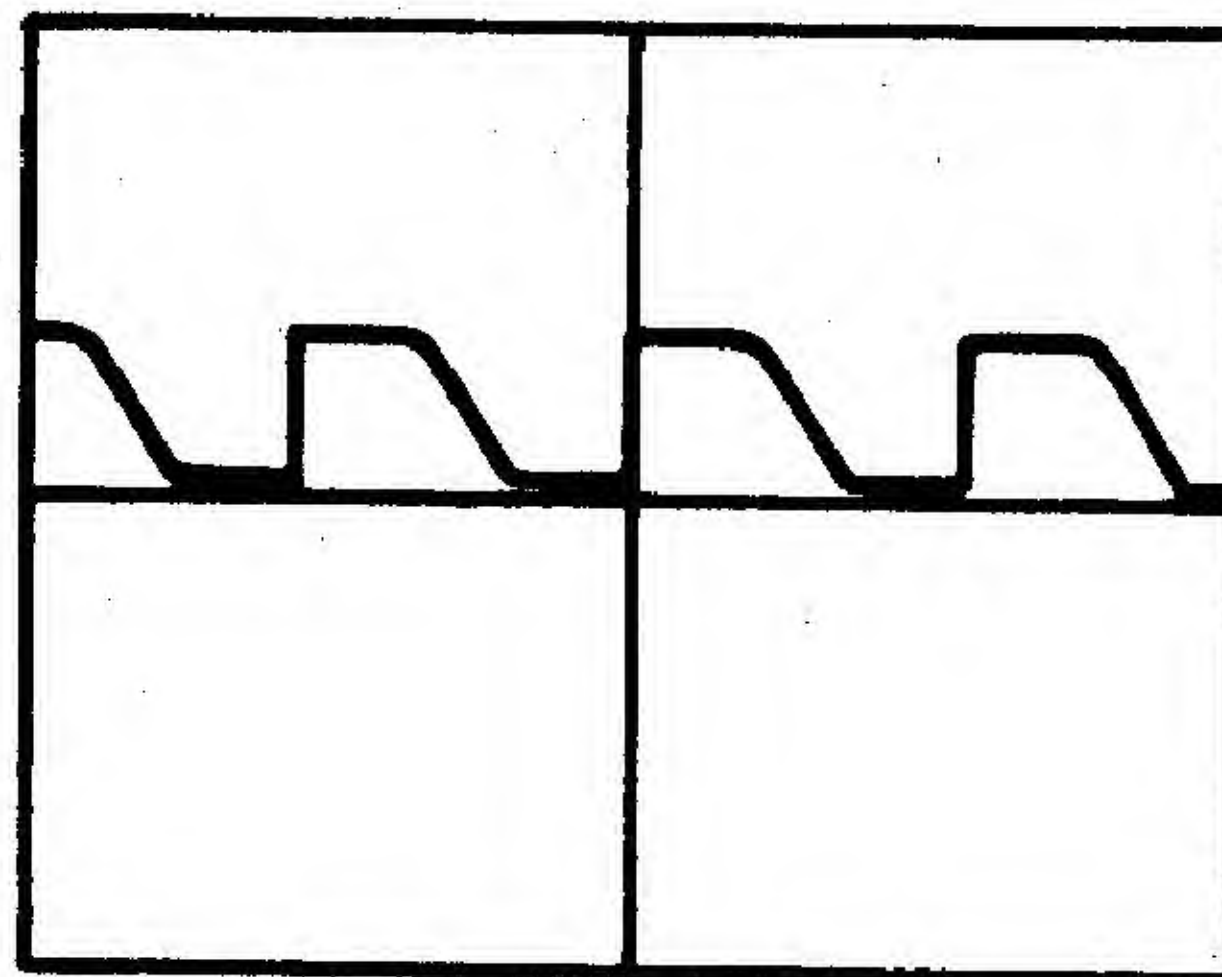
② 11.5Vp-p
35.7KHz



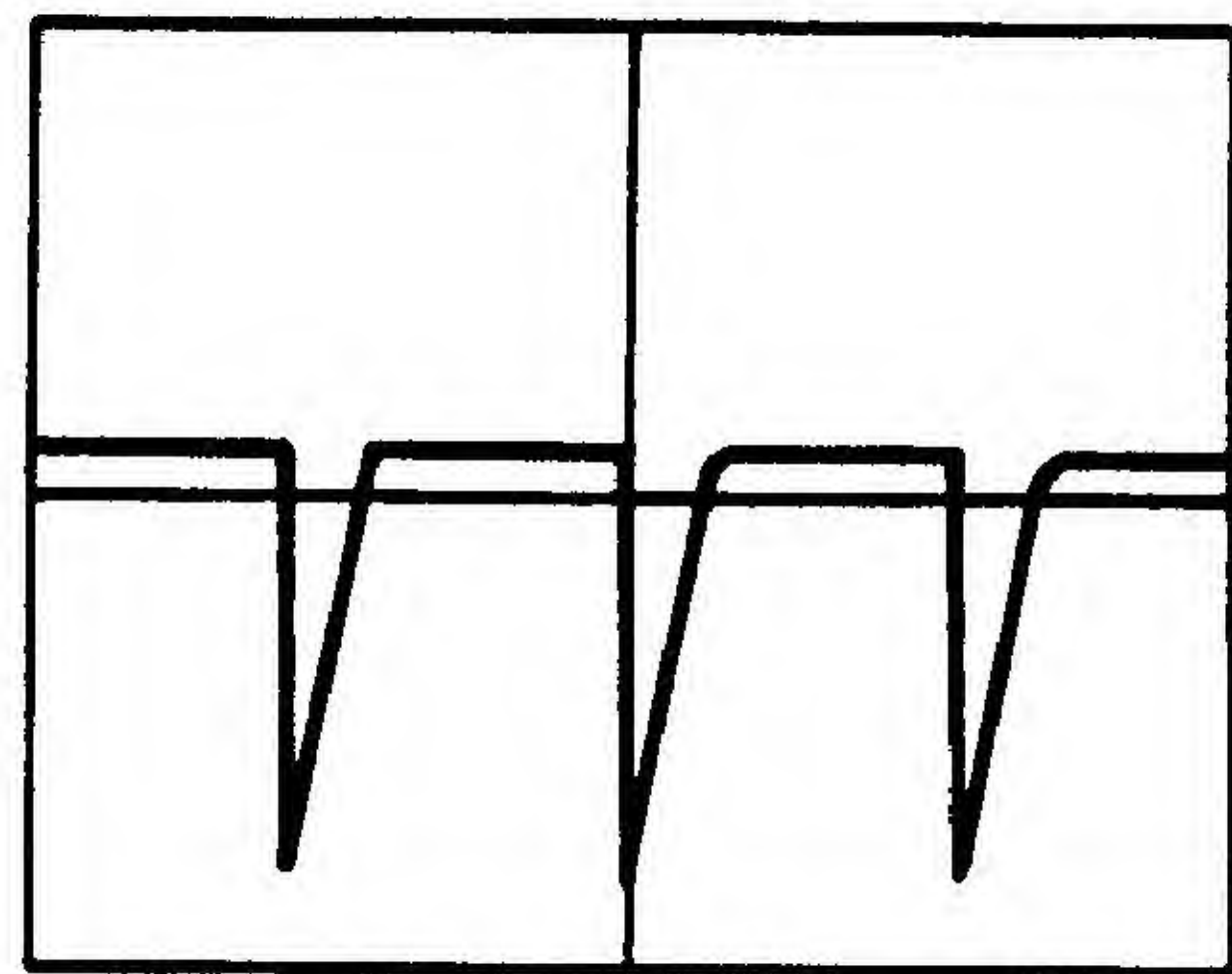
③ 2.3Vp-p
35.7KHz



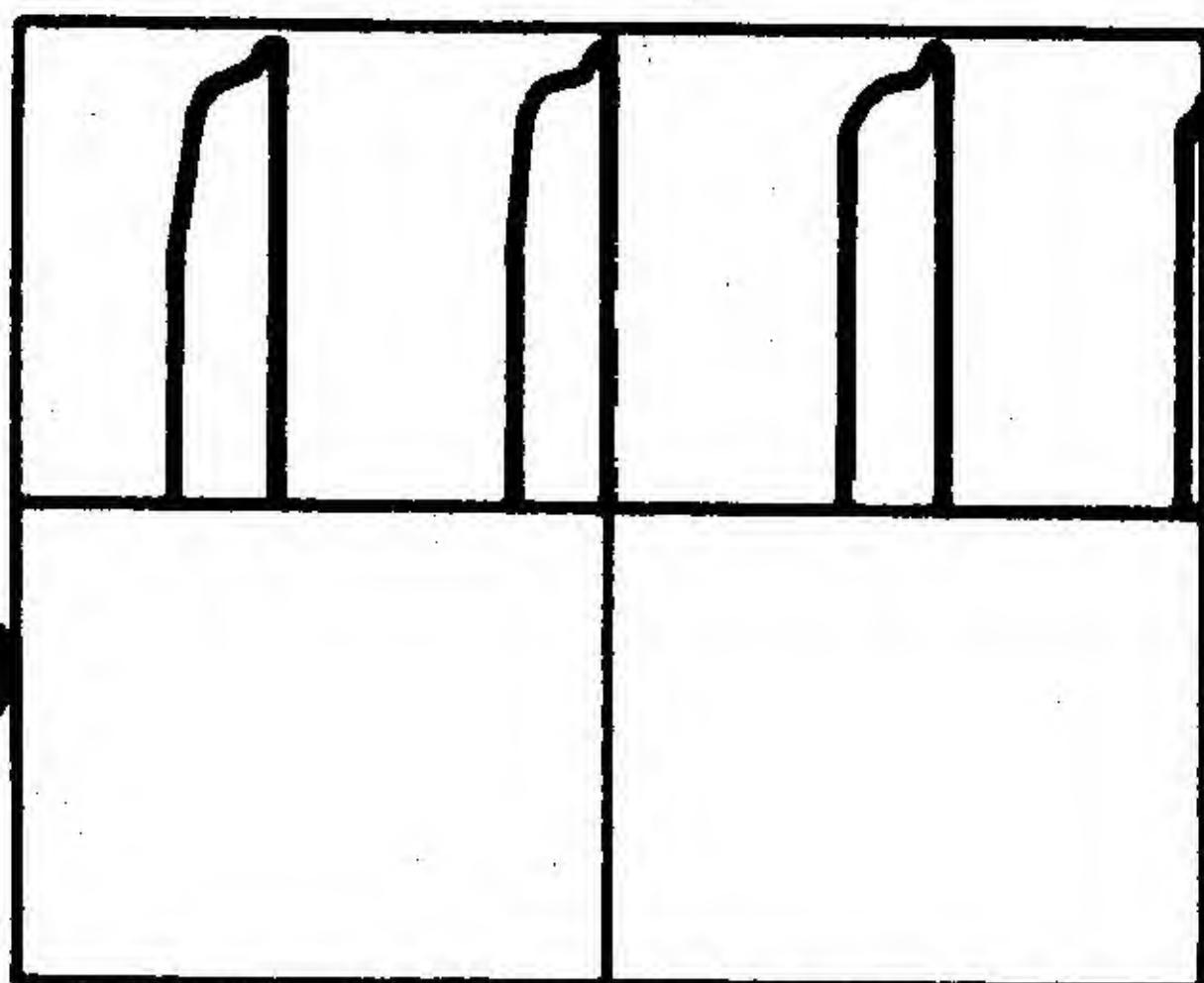
④ 9.0Vp-p
35.7KHz



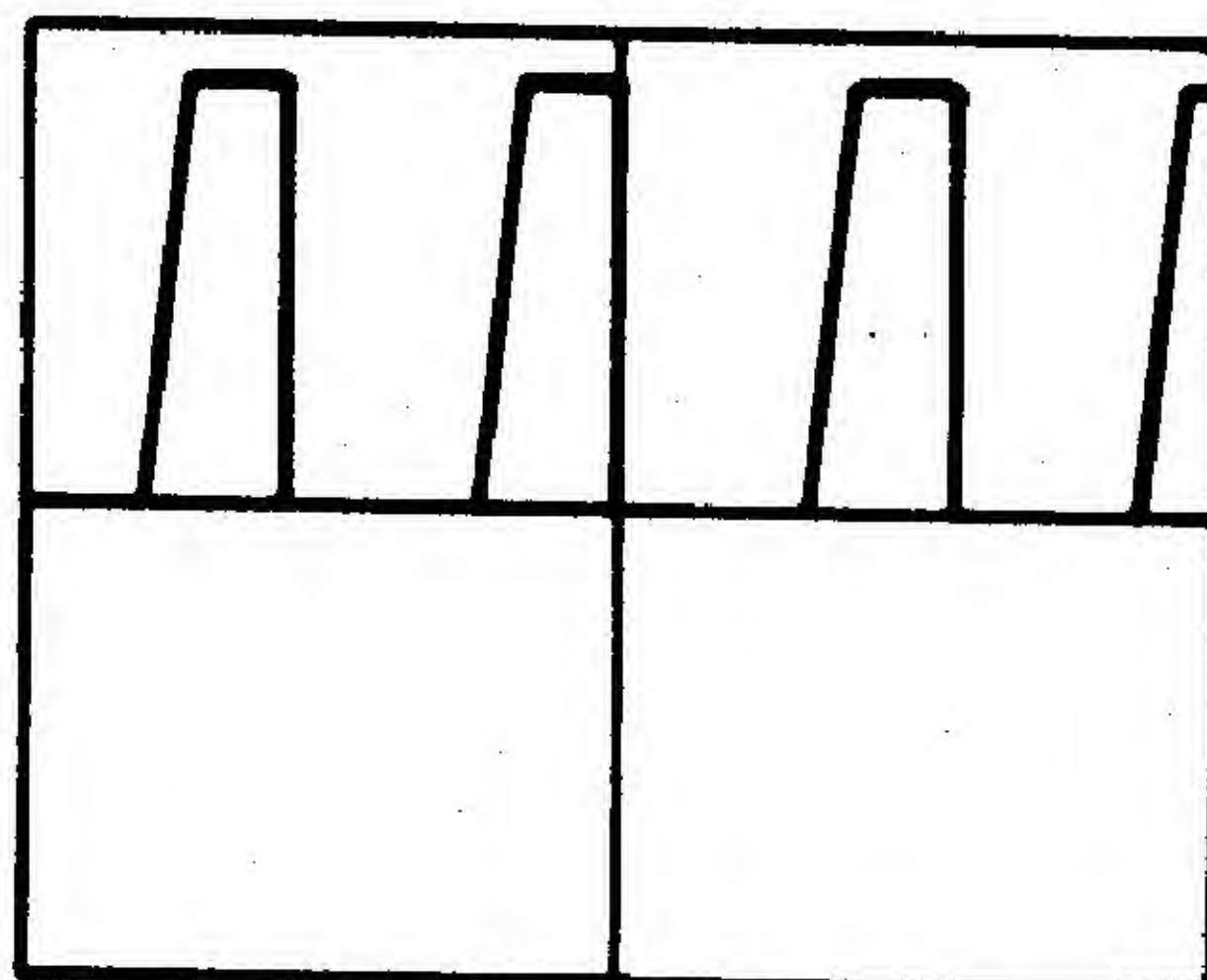
⑤ 0.7Vp-p
35.7KHz



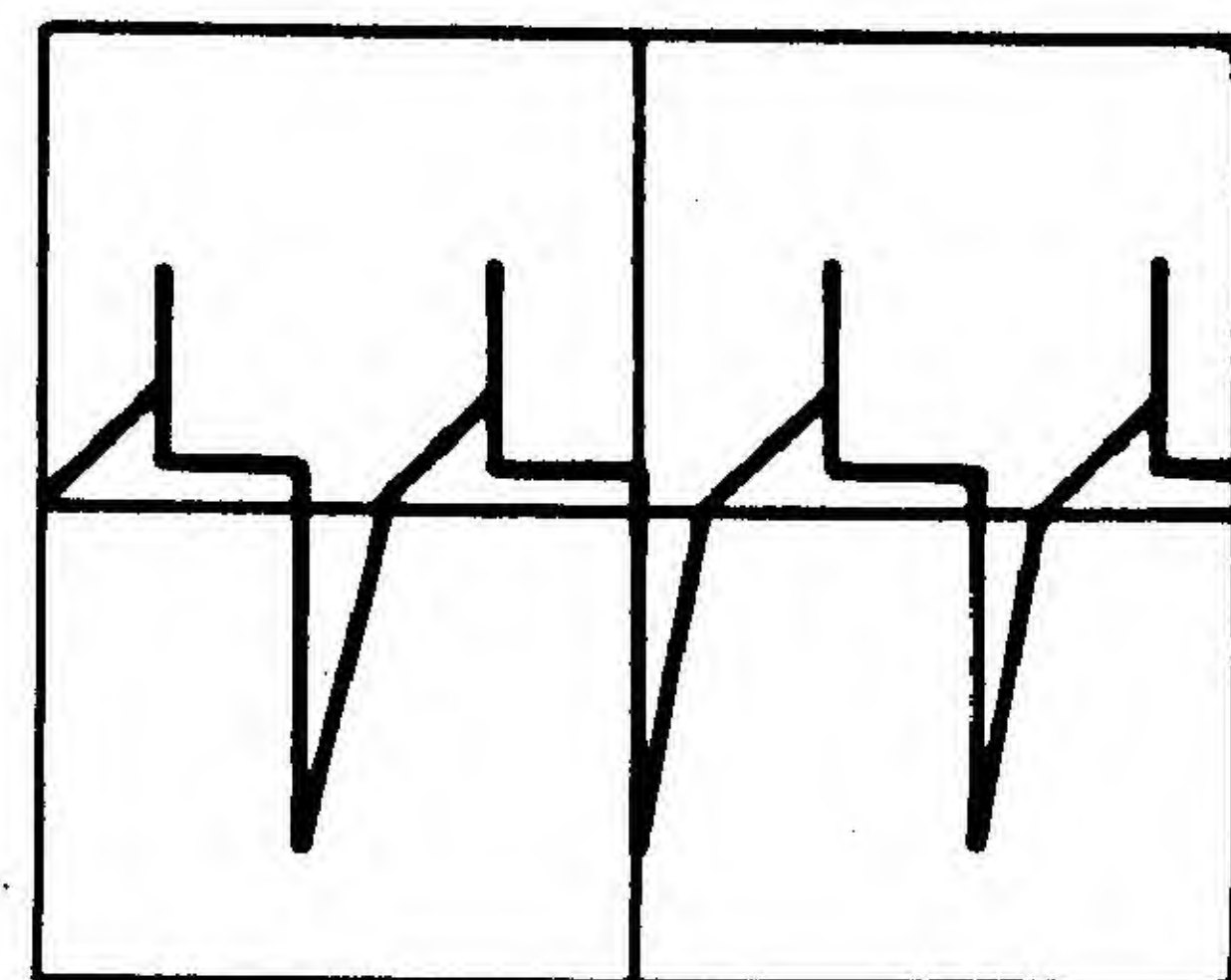
⑥ 6.8Vp-p
35.7KHz



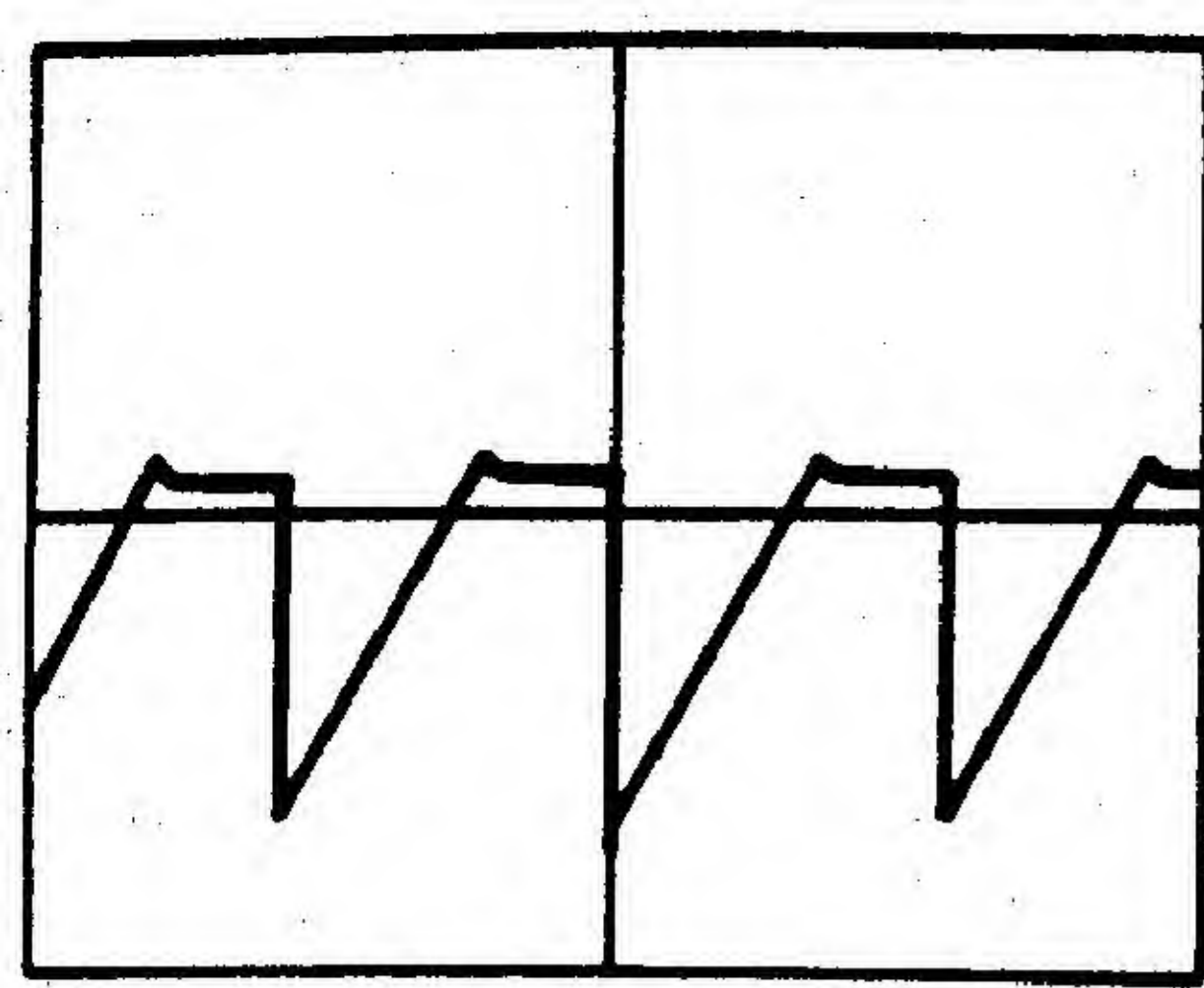
⑦ 8.0Vp-p
35.714KHz



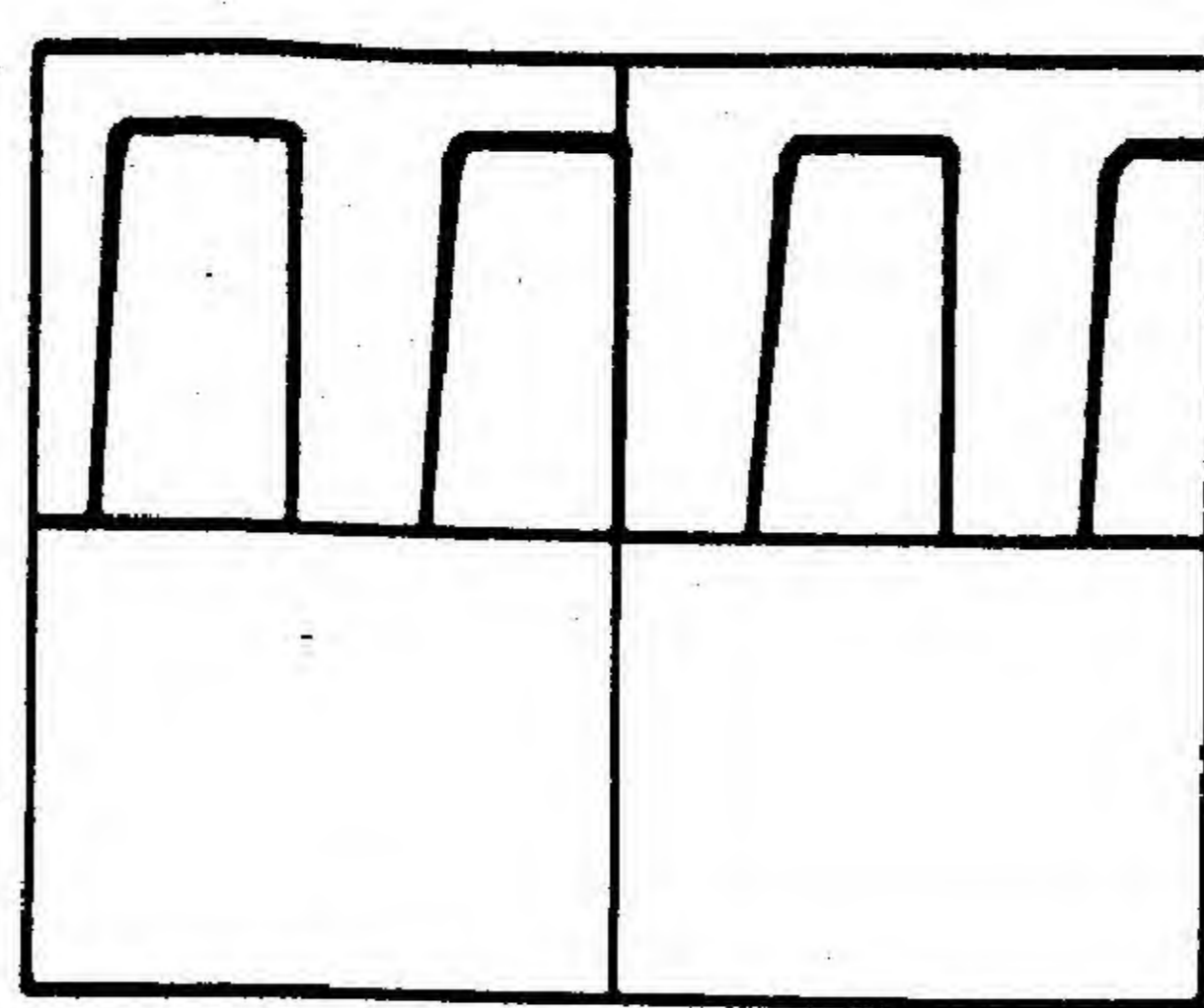
⑧ 7.2Vp-p
35.714KHz



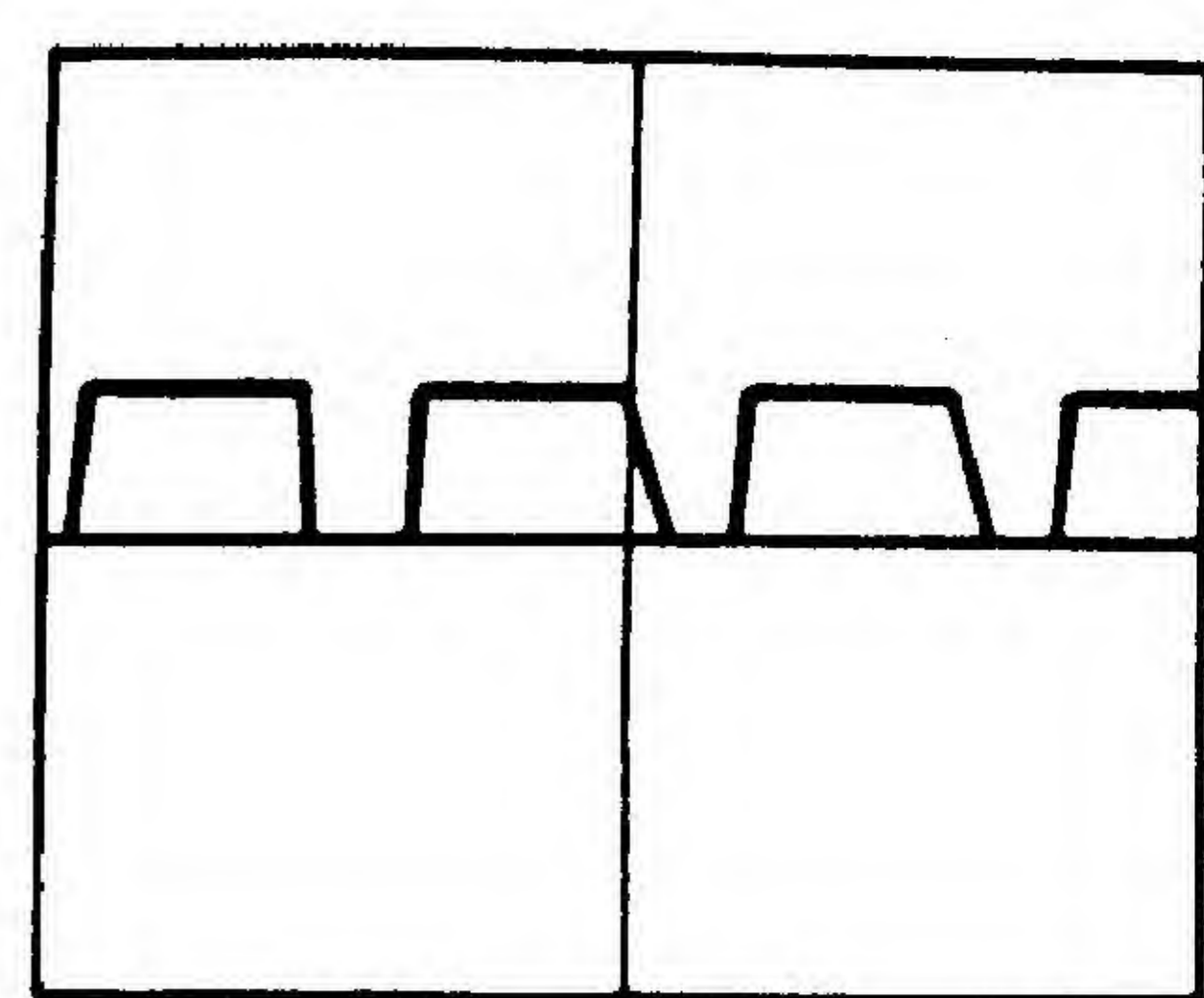
⑨ 7.0Vp-p
35.714KHz



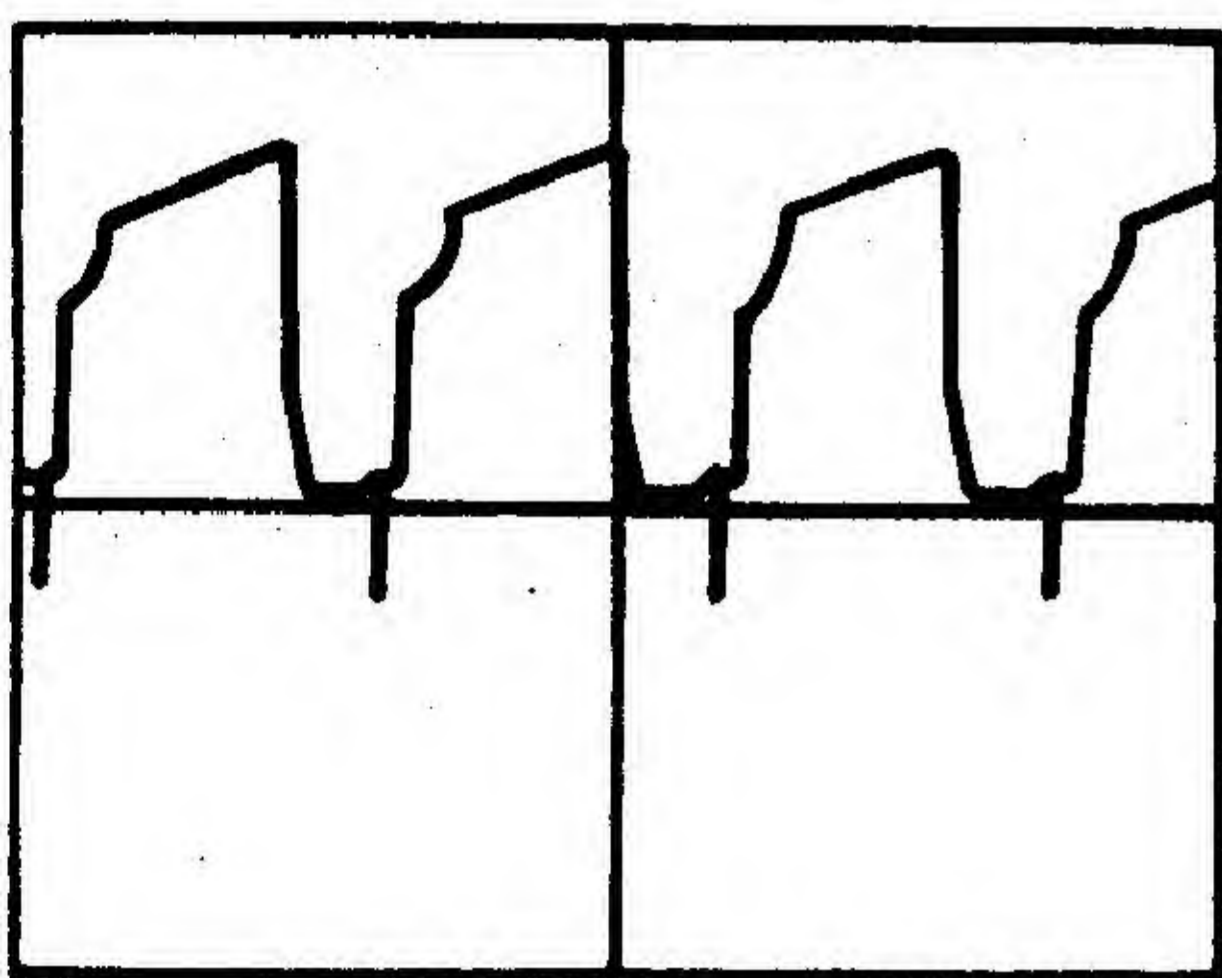
⑩ Vol: 6.4Vp-p
35.714KHz



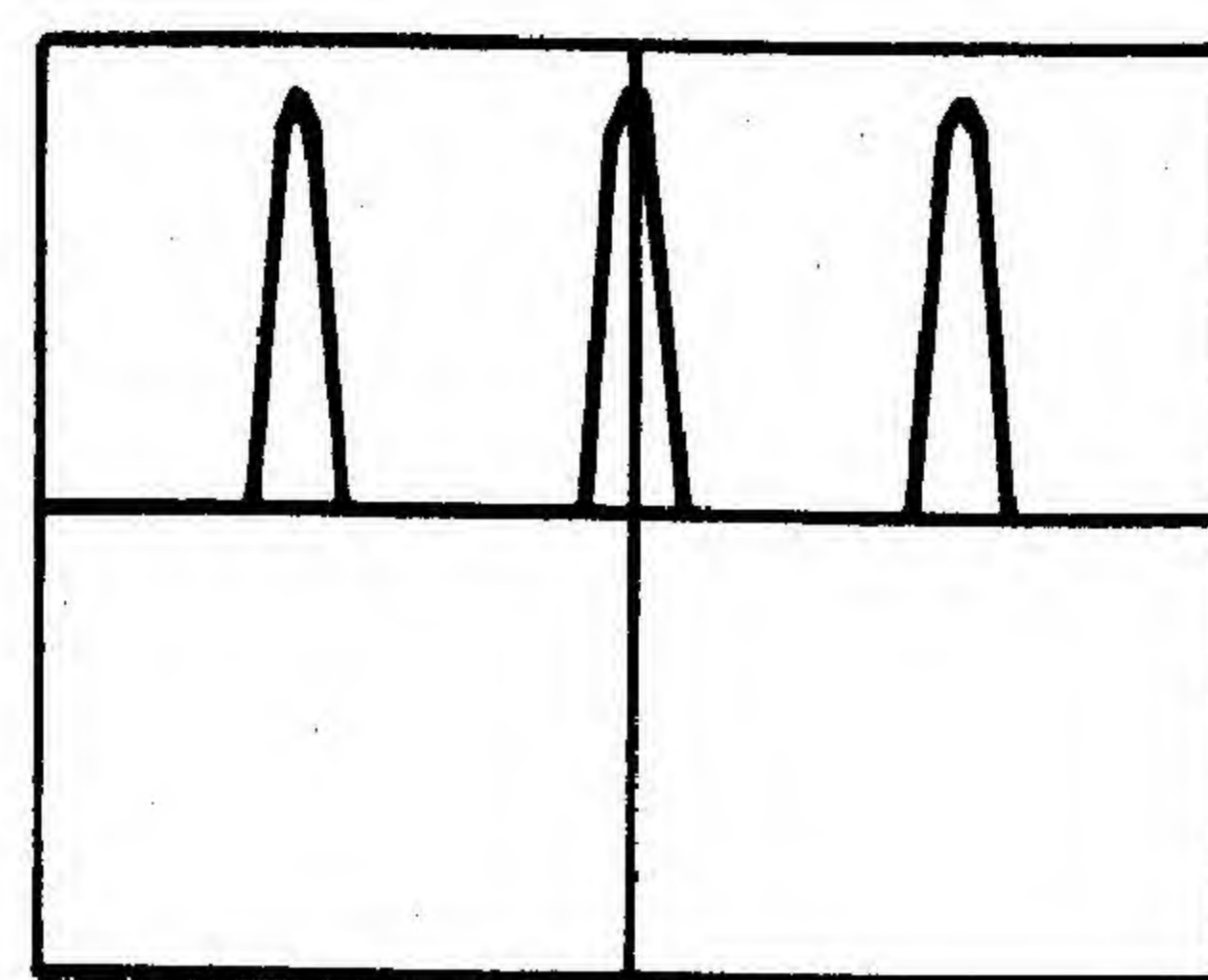
⑪ 7.0Vp-p
35.714KHz



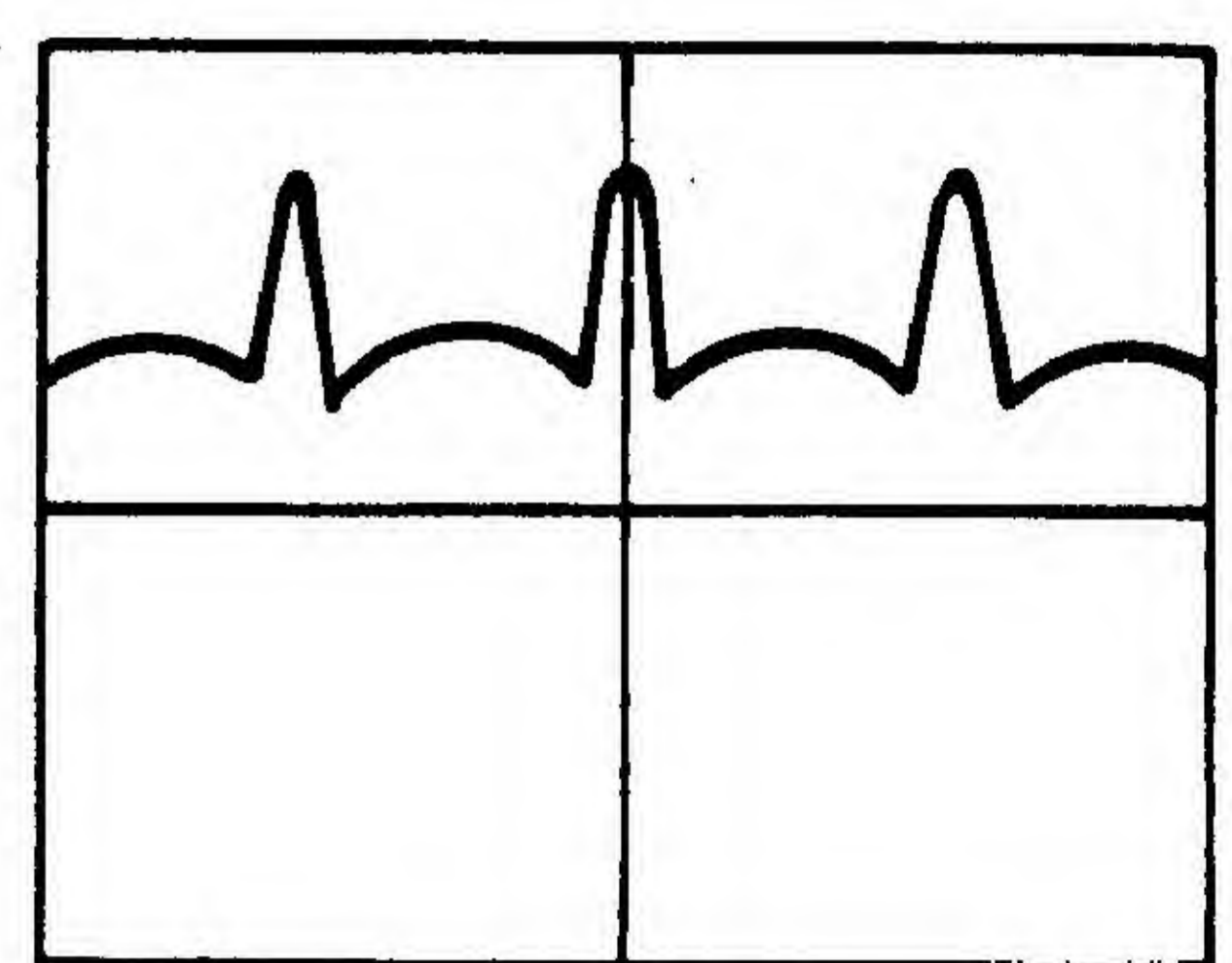
⑫ 0.7Vp-p
35.714KHz



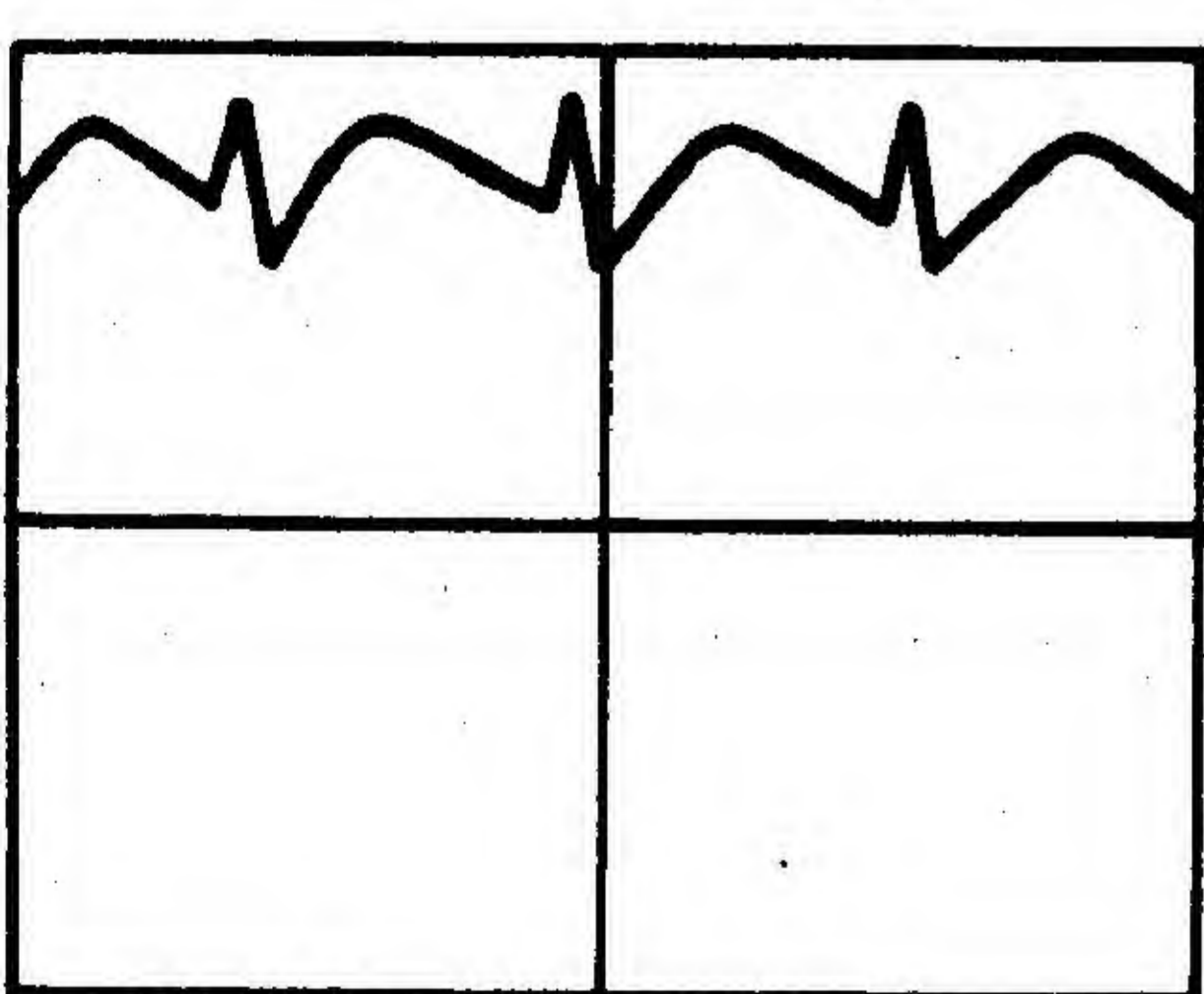
⑬ 4.71Vp-p
35.714KHz



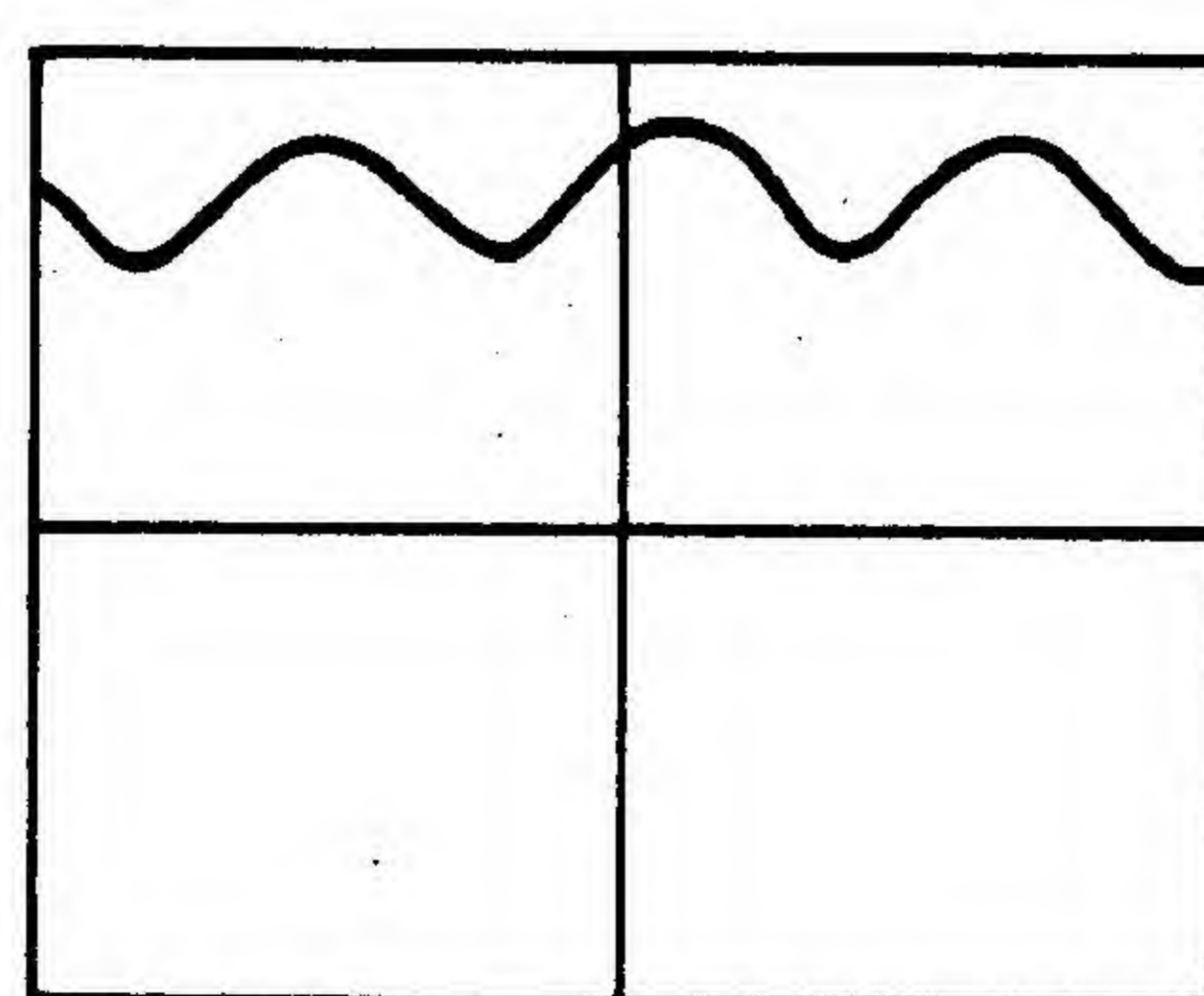
⑭ 180Vp-p
35.714KHz



⑮ 56Vp-p
35.714KHz



⑯ 38Vp-p
35.714KHz



⑰ 36Vp-p
35.714KHz

⑱ 11.8VDC

⑲ -70.0VDC

⑳ 69.5VDC

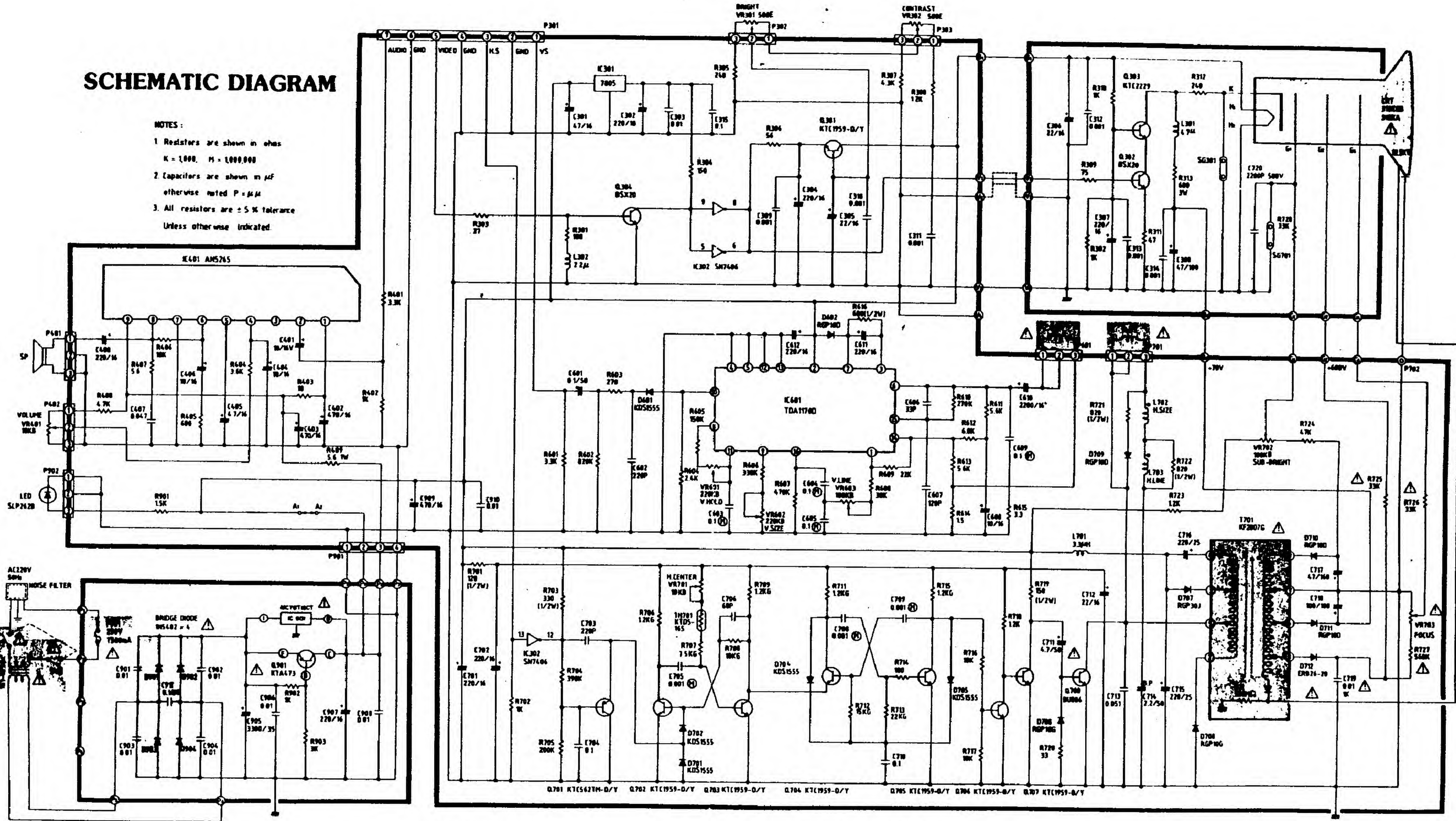
㉑ 28.8VDC

㉒ 600VDC

SCHEMATIC DIAGRAM

NOTES:

1. Resistors are shown in ohms
K = 1,000, M = 1,000,000
2. Capacitors are shown in μF
otherwise noted P = μM
3. All resistors are $\pm 5\%$ tolerance
Unless otherwise indicated.



⚠️ REPLACE ALL COMPONENTS MARKED WITH SAFETY SYMBOL WITH IDENTICAL TYPE

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

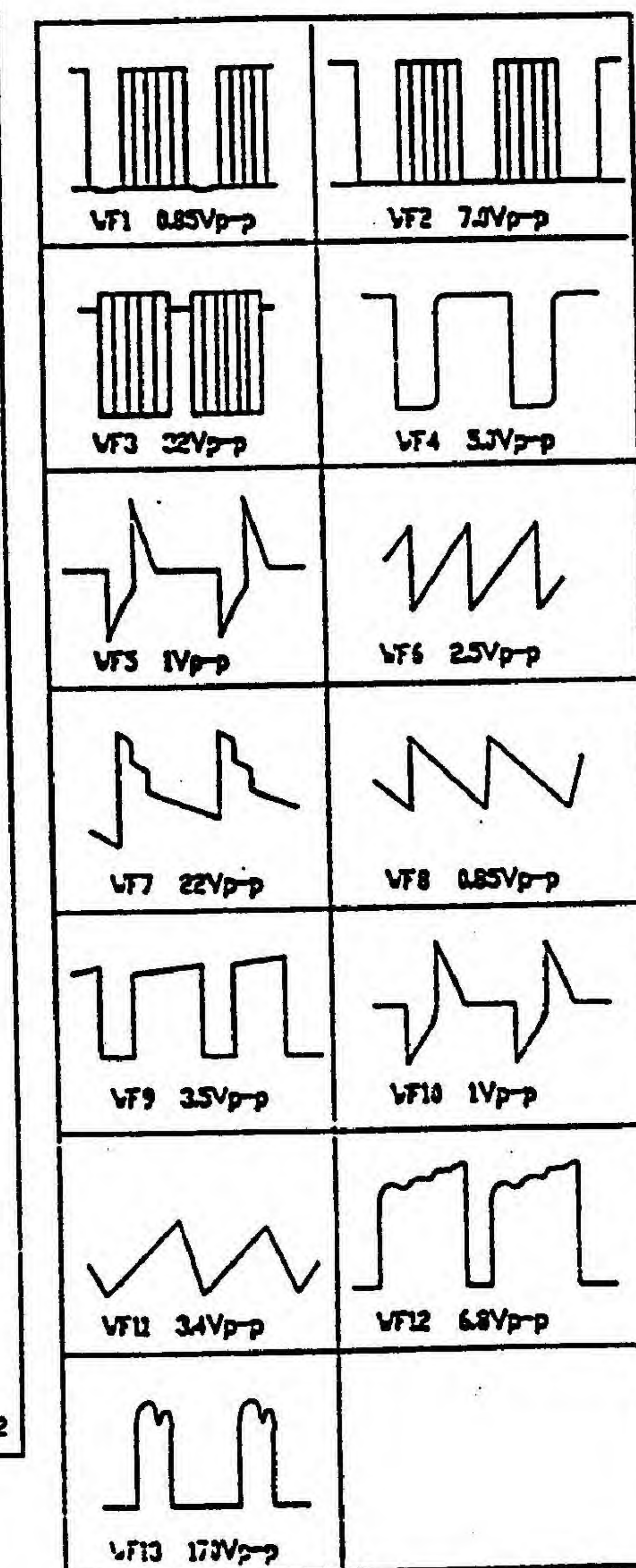
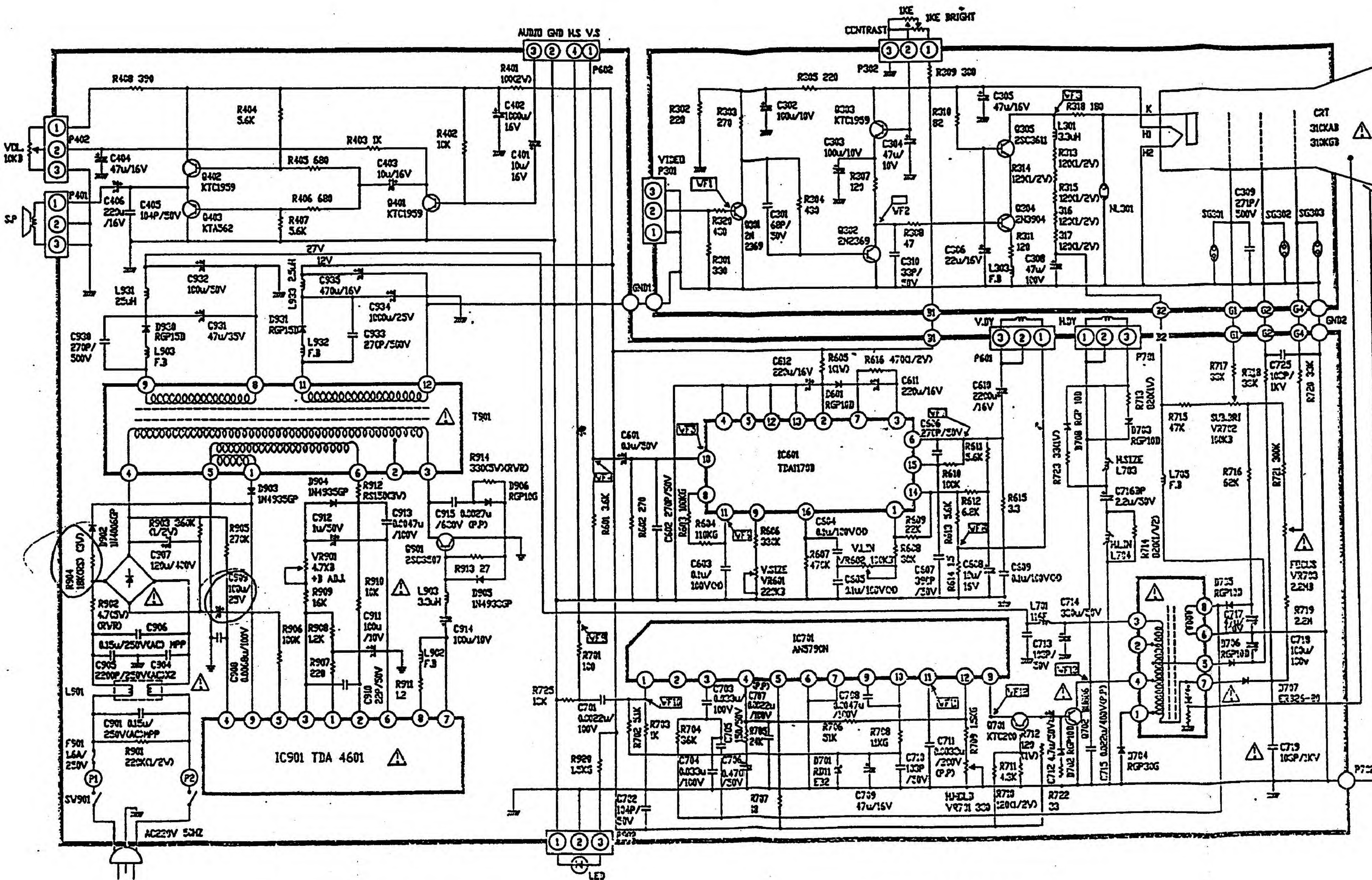
IMPORTANT AVIS SUR LA SÉCURITÉ

LA PARTIE OMBRÉE DE CE DIAGRAMÉ SCHEMATIQUE COMPREND DES CARACTÉRISTIQUES SPÉCIALES CONÇUES POUR PROTÉGER DES RAYONS X, ET DES DANGERS D'INCENDIE ET DE SECOURS ÉLECTRIQUES EN CAS DE BESOIN SI DES PIÈCES DE CETTE PARTIE OMBRÉE DOIVENT ÊTRE REMPLACÉES N'UTILISEZ QUE DES PIÈCES SPÉCIFIÉES PAR LE MANUFACTURIER.

MT-21 SCHEMATIC DIAGRAM

R 904 22KΩ 3W → 18KΩ 3W

C 909 47/25V → 100/25V



- NOTES :
1. RESISTORS ARE SHOWN IN OHMS
K = 1,000 M = 1,000,000
 2. CAPACITORS ARE SHOWN IN UF
OTHERWISE NOTED P = μμ
 3. ALL RESISTORS ARE ± 5% TOLERANCE
UNLESS OTHERWISE INDICATED.
- REPLACE ALL COMPONENTS MARKED WITH
SAFETY SYMBOL WITH IDENTICAL TYPE

IMPORTANT SAFETY NOTICE
THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SEVERAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

Nov - 6 - '87
N. S. LEE

TROUBLESHOOTING CHART

MAIN CHART

Please Check the Monitor and the PC how to Connect exactly.

LED
Lights ON?

No

Go to POWER chart.

Yes

Video
something
wrong?

Yes

Go to VIDEO chart.

No

Sound
something
wrong?

Yes

Go to SOUND chart.

No

Switch ON monitor,
then check it after 15 minutes.

Yes

Something
wrong?

No

Adjustment

Good! Please return the set to owner.

POWER CHART

Please check the monitor and outlet connections.

LED Lights?

Yes

To the main chart.

No or Weak

Check input of IC901.

+22V DC?

Yes

Check output of IC901 & PIN #2 of connector (P901).

No

Check AC fuse (F901).

Open?

No

Check P5 & P4 of power PCB.

Yes

Replace AC fuse.

No

+12V DC?

Yes

Replace IC901 or Q901.

To the main chart.

No

Fuse Reopen?

Yes

Trouble in D901-D904

17V AC?

No

Yes

Replace Power Switch.

Replace Transformer.

VIDEO CHART

Check the connection between Monitor and PC.

Display?

Faulty

No

Check #3 of P301

1.6Vp-p?

No

Trouble in Signal Cable.

Yes

Check #5 or #9 of IC302

5Vp-p?

No

Trouble in IC301 or Q304.

Yes

Check #8 or #6 of IC302

4.8Vp-p?

No

Trouble in IC302 or Q301

Yes

Check cathode of CRT PCB.

28Vp-p?

No

Check Q303 and Q302.

Yes

Check FBT circuit.

Yes

Normal?

No

Trouble in Q303 or Q302.

Normal?

Yes

Trouble in CRT.

No

Trouble in FBT.

Adjust
V-Hold (VR601)
H-Center (VR701)
Sub-Bright (VR702)

OK?

Yes

To the main chart

No

Check Video circuit

Check Hor. circuit.

Check Vert. circuit.

SOUND CHART

Check the connection between Monitor and PC.

Power is ON?

No

To the Power chart.

Yes

Check connector (P901).

Yes

Normal?

No

Trouble in connector. (P901)

Yes

Check connector (P402).

Normal?

No

Trouble in connector. (P402)

Yes

Check connector (P401).

Yes

Normal?

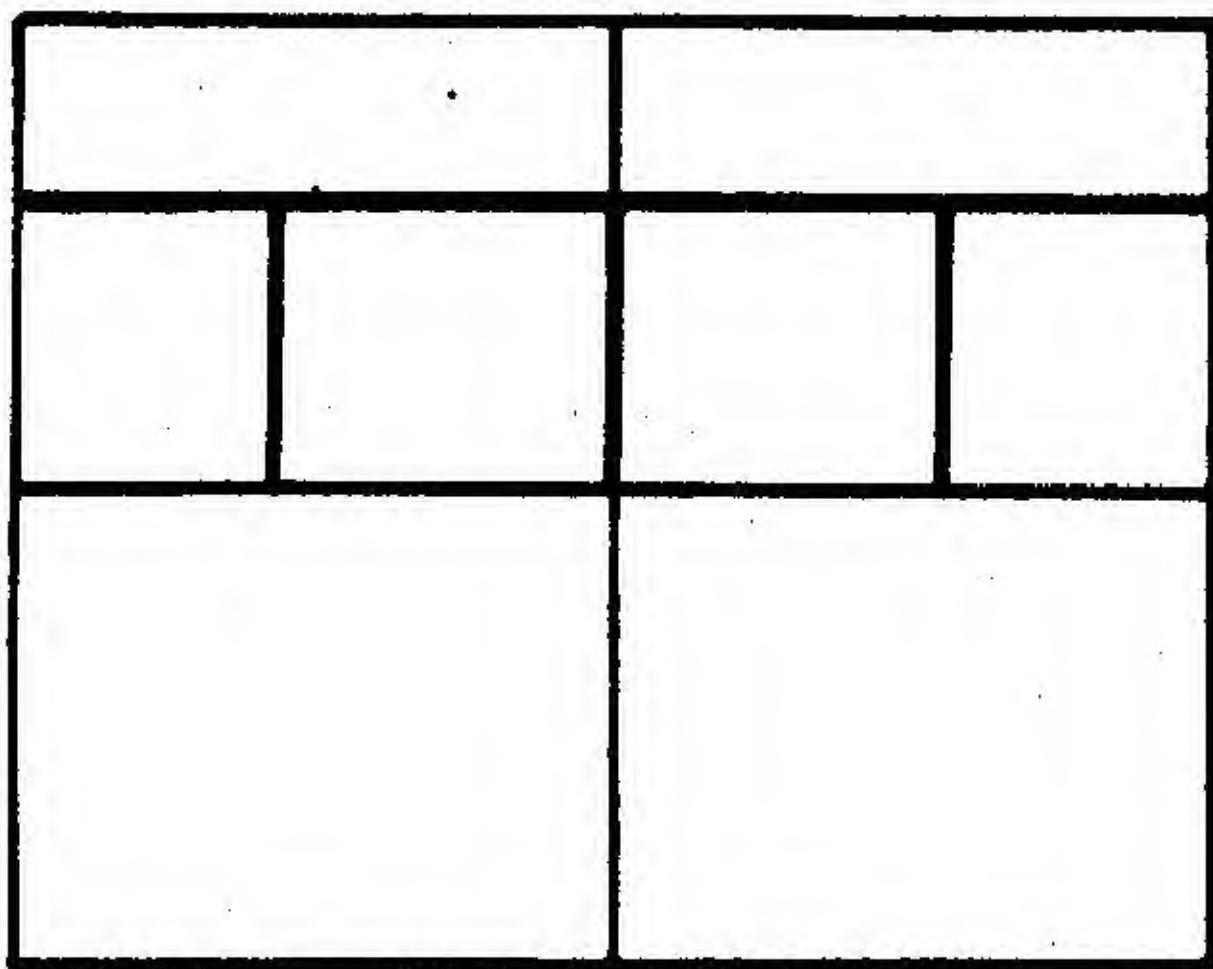
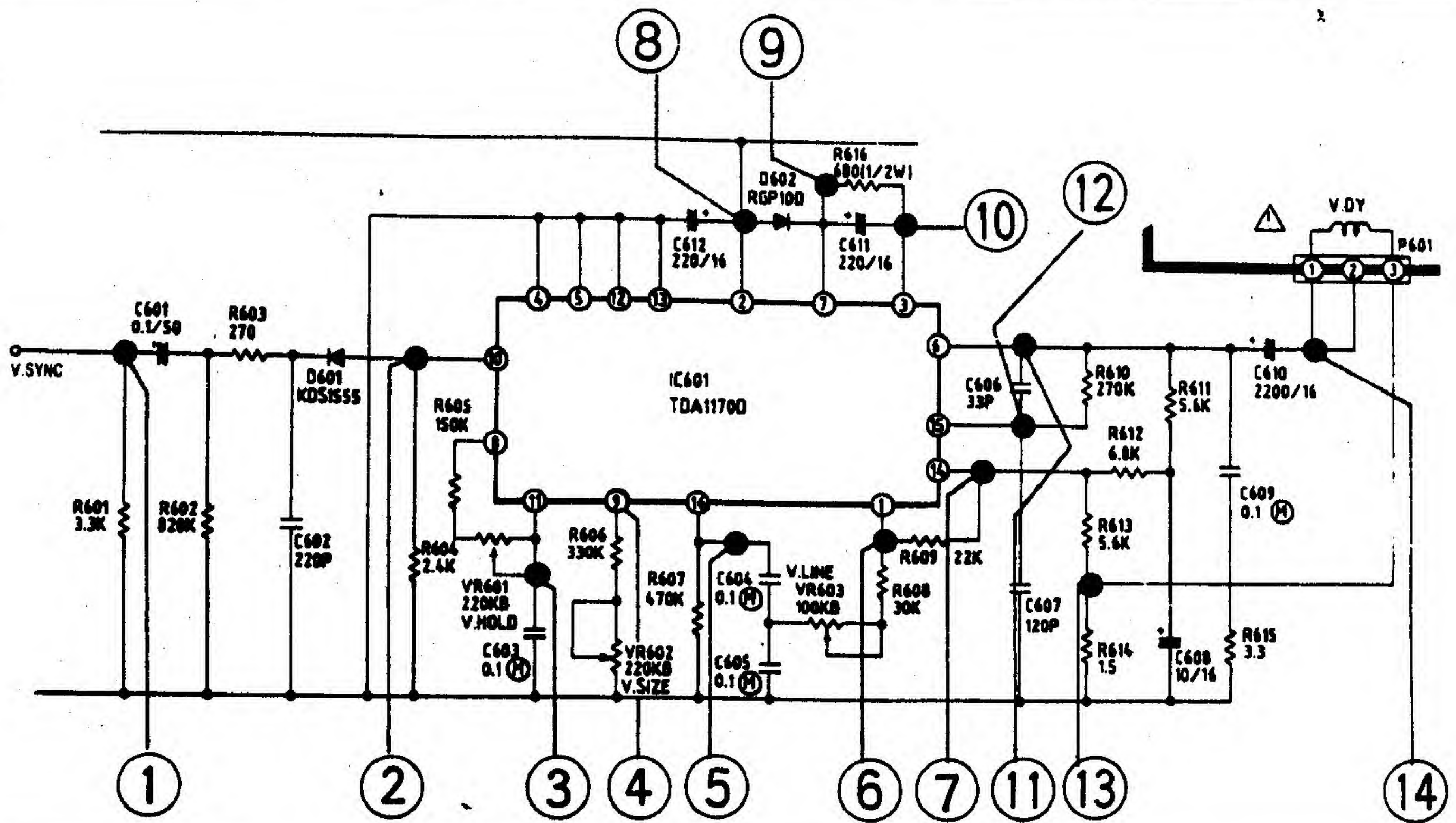
No

Trouble in connector. (P401)

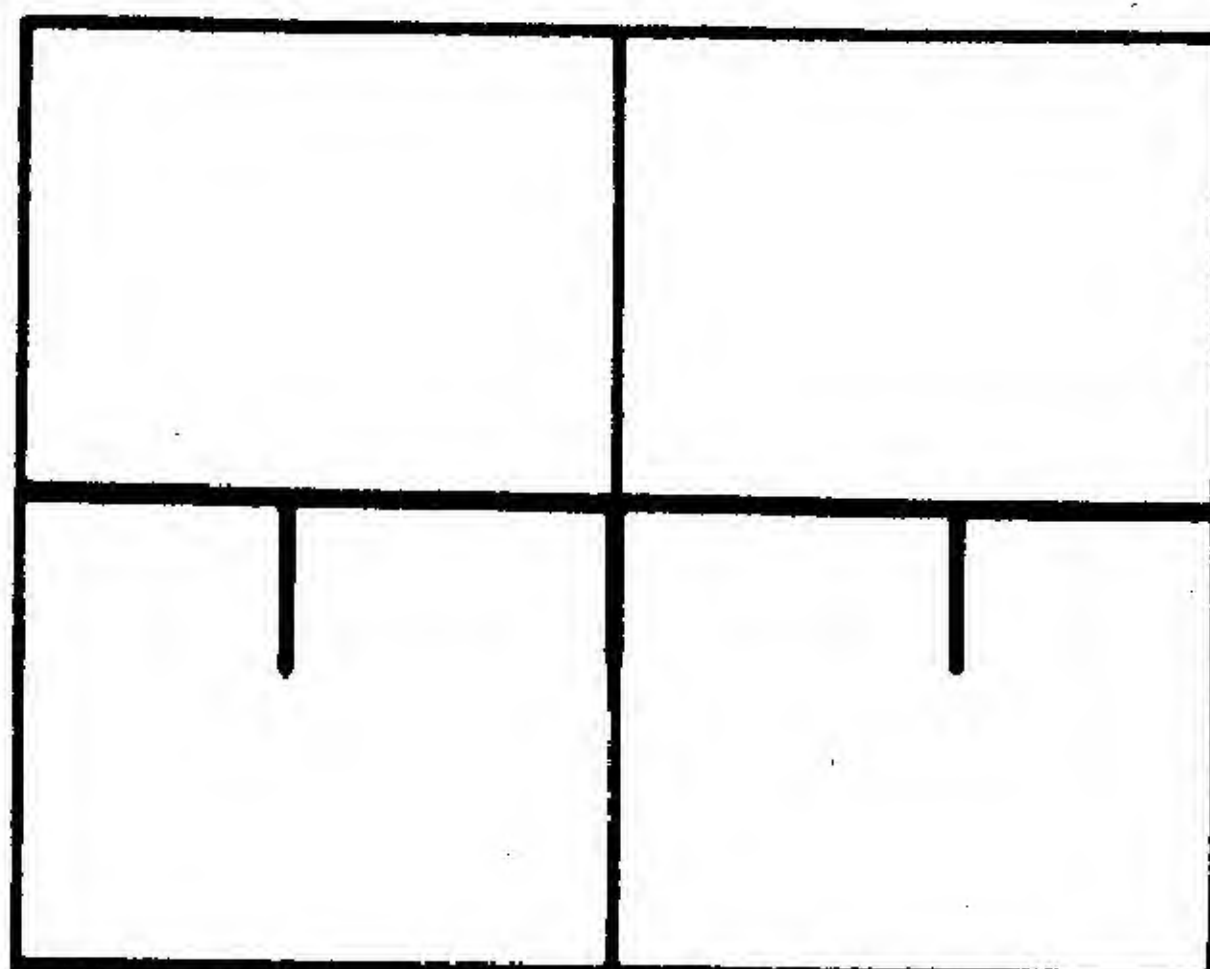
Yes

Trouble in IC401 and C403.

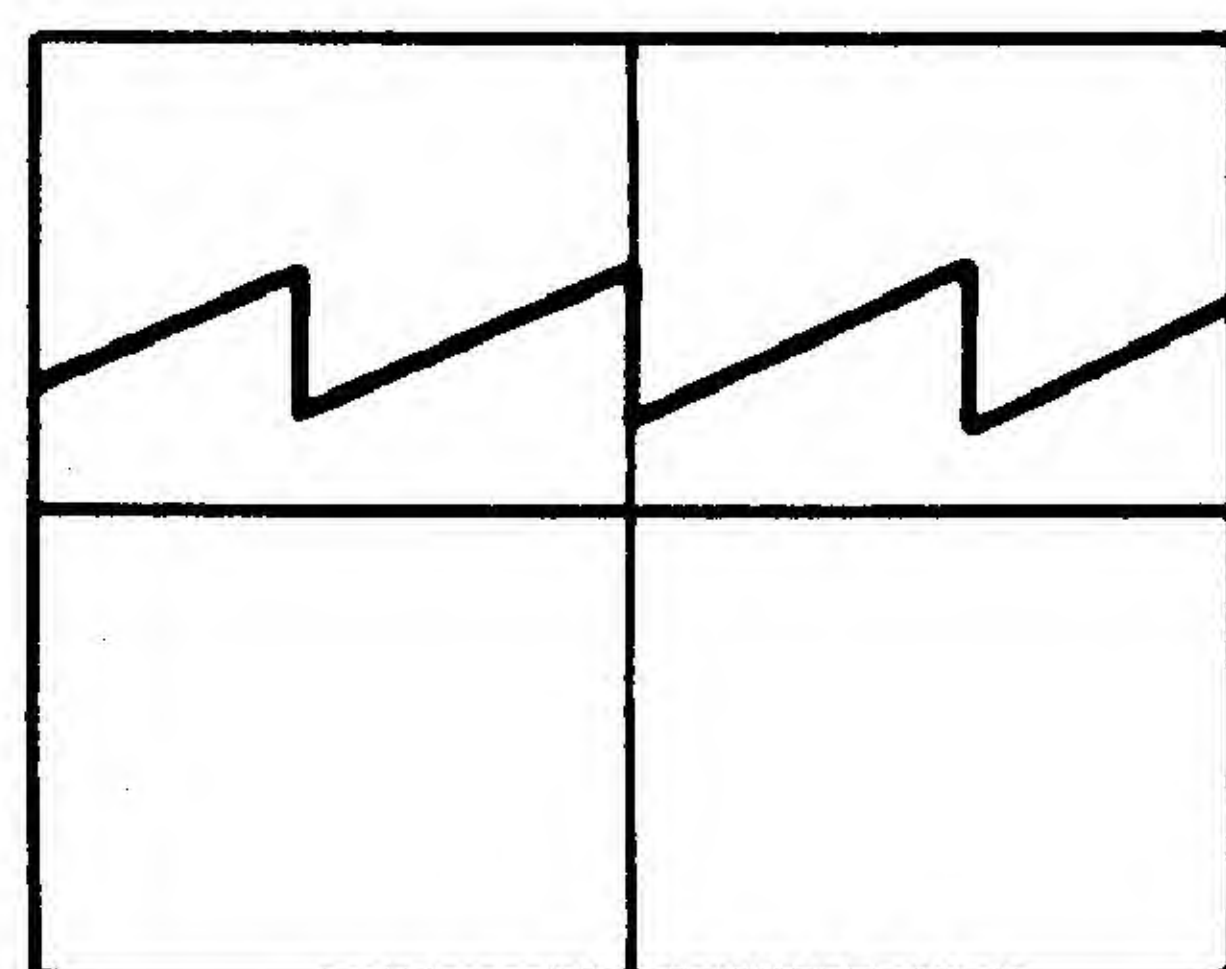
VERTICAL DEFLECTION CIRCUIT



① 5.0Vp-p
71.43Hz

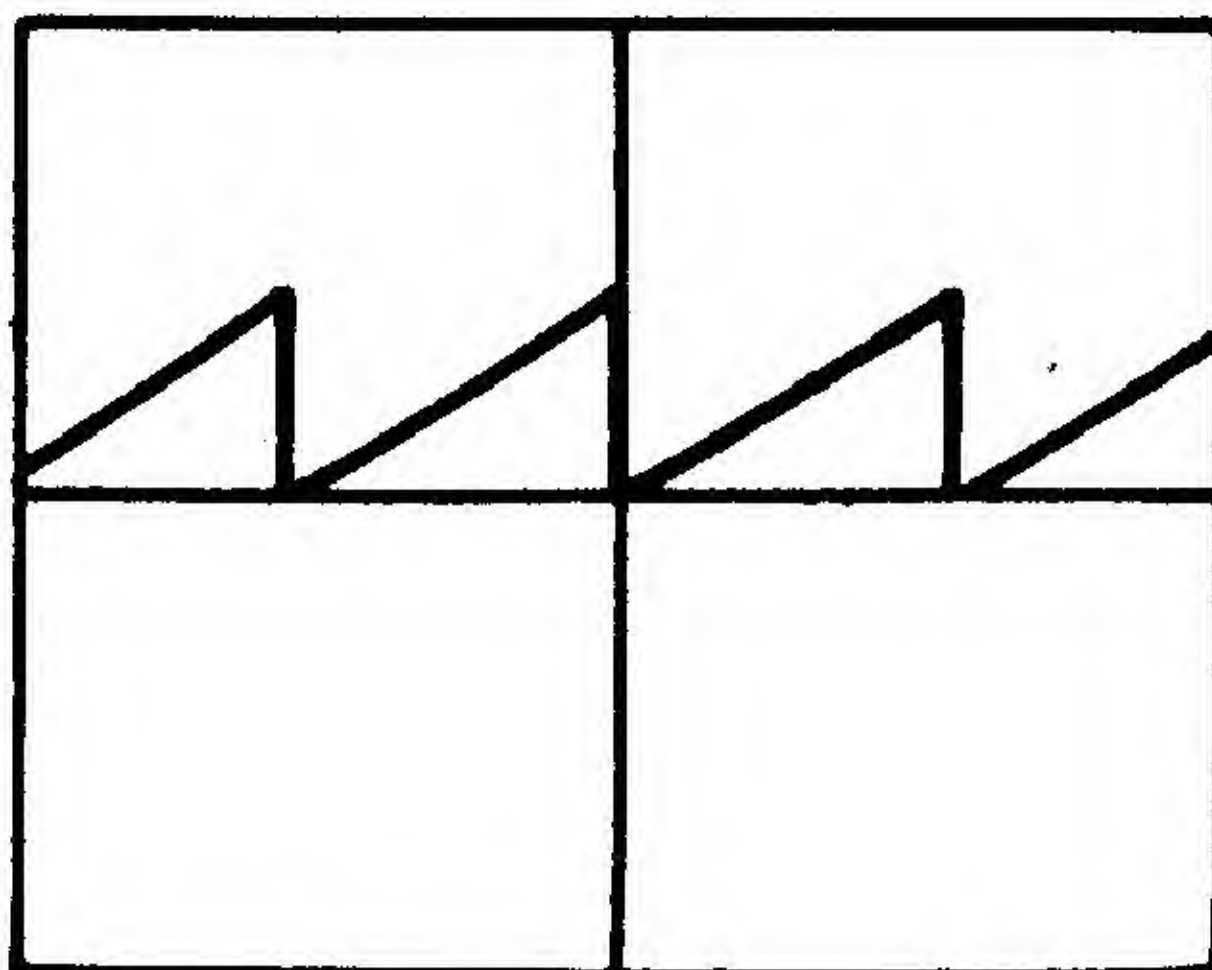


② 0.7Vp-p
71.43Hz

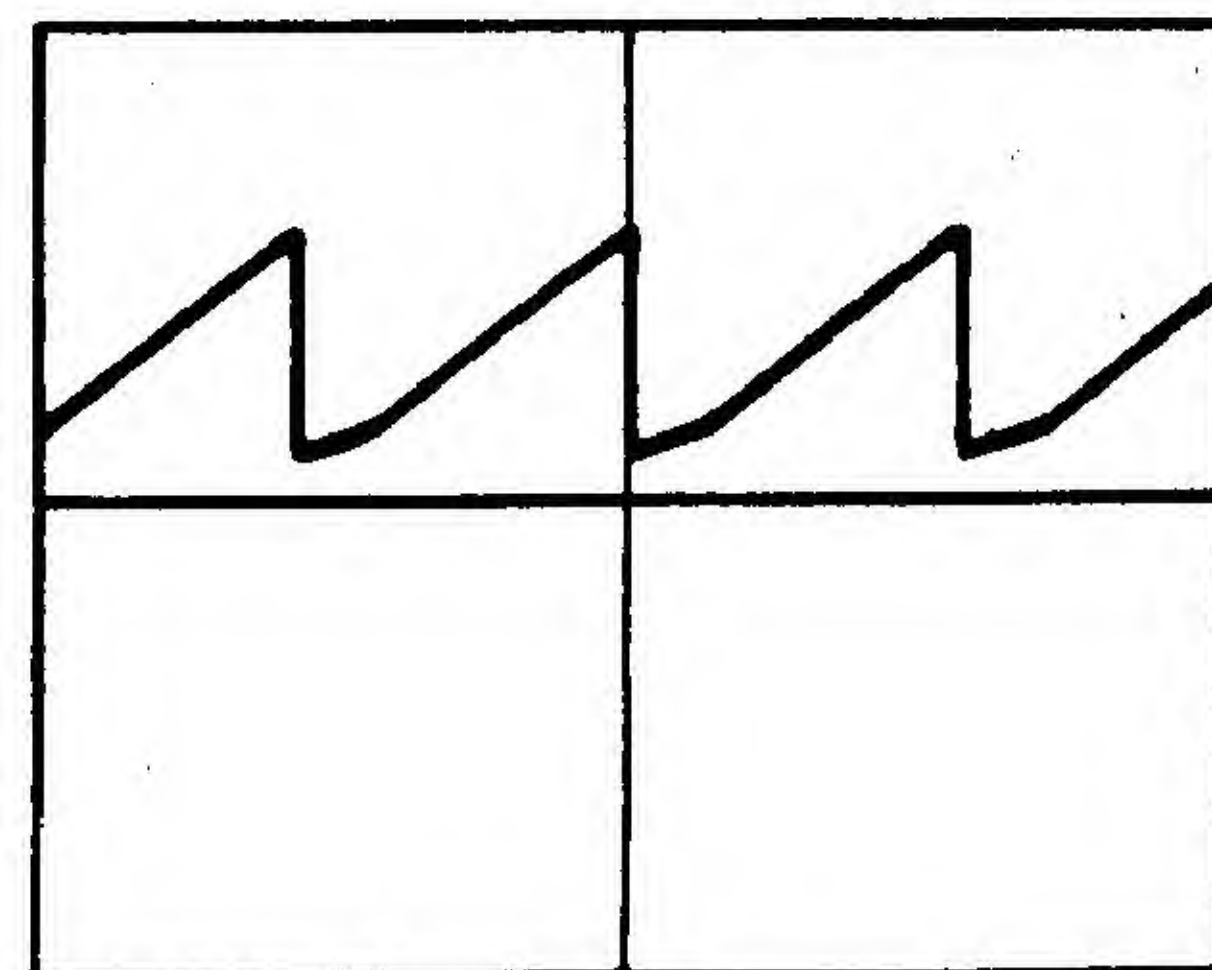


③ 4Vp-p
71.43Hz

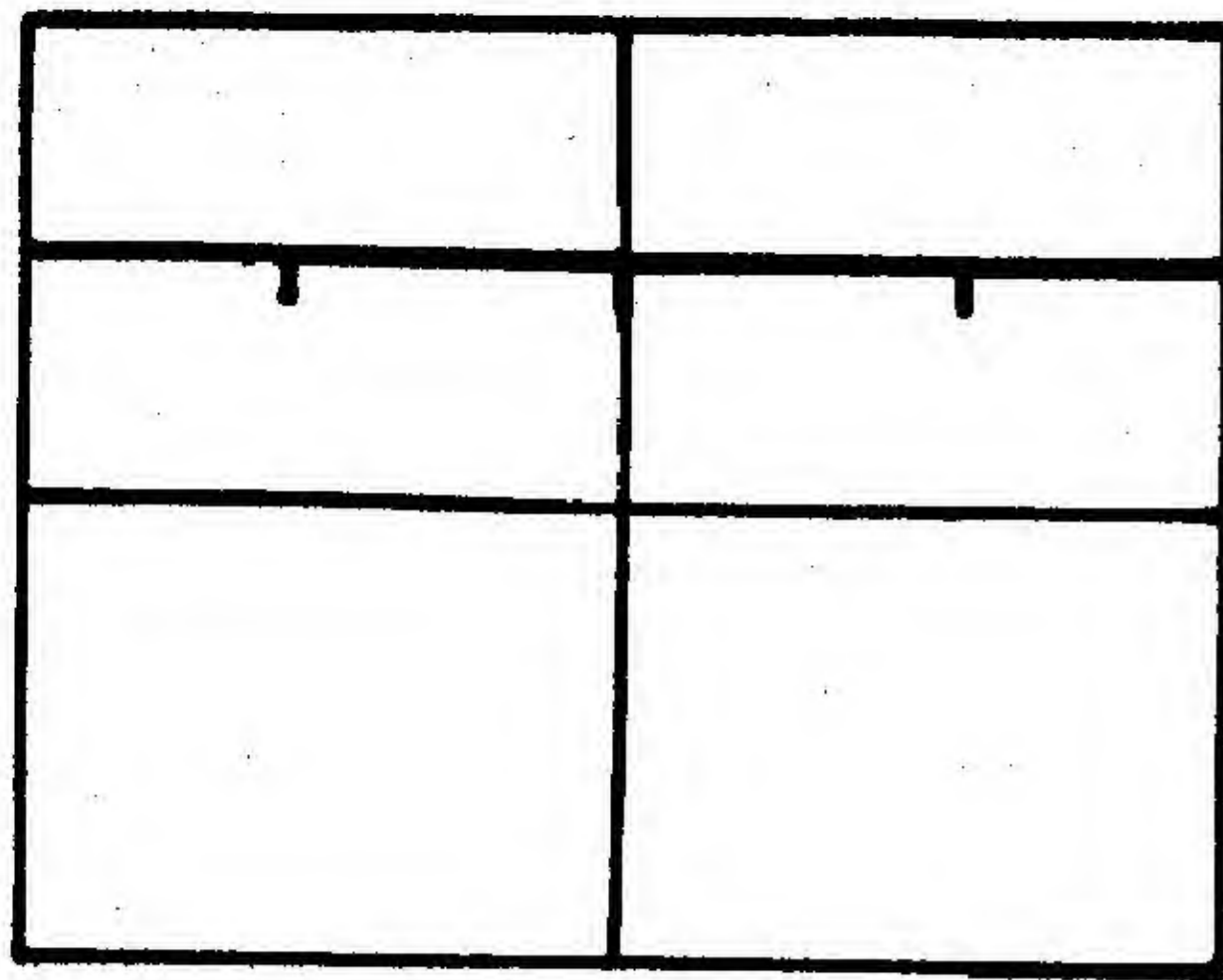
④ 6.68V



⑤ 4.0Vp-p
71.43Hz

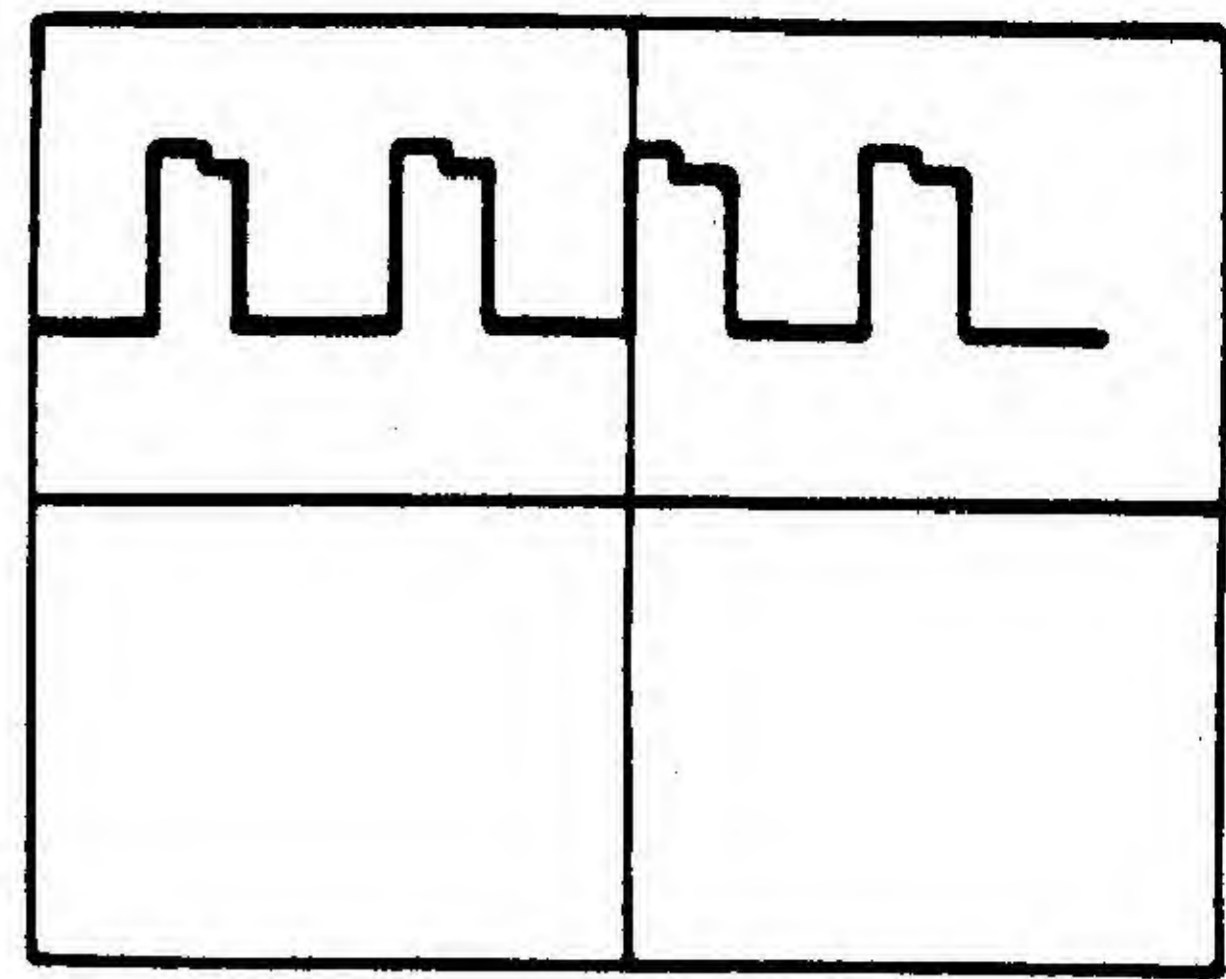


⑥ 4.7Vp-p
71.43Hz

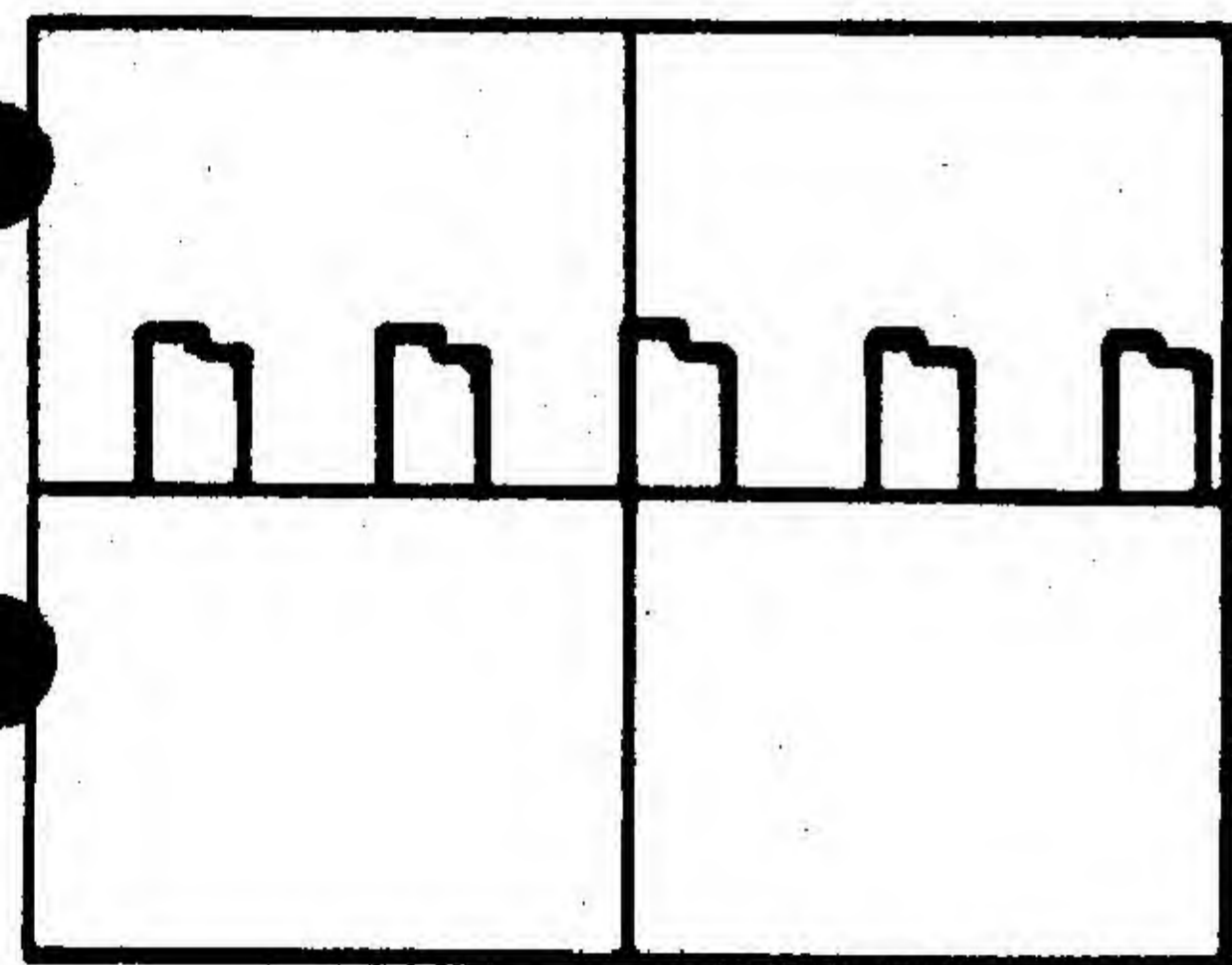


⑦ 2.1Vp-p
71.43Hz

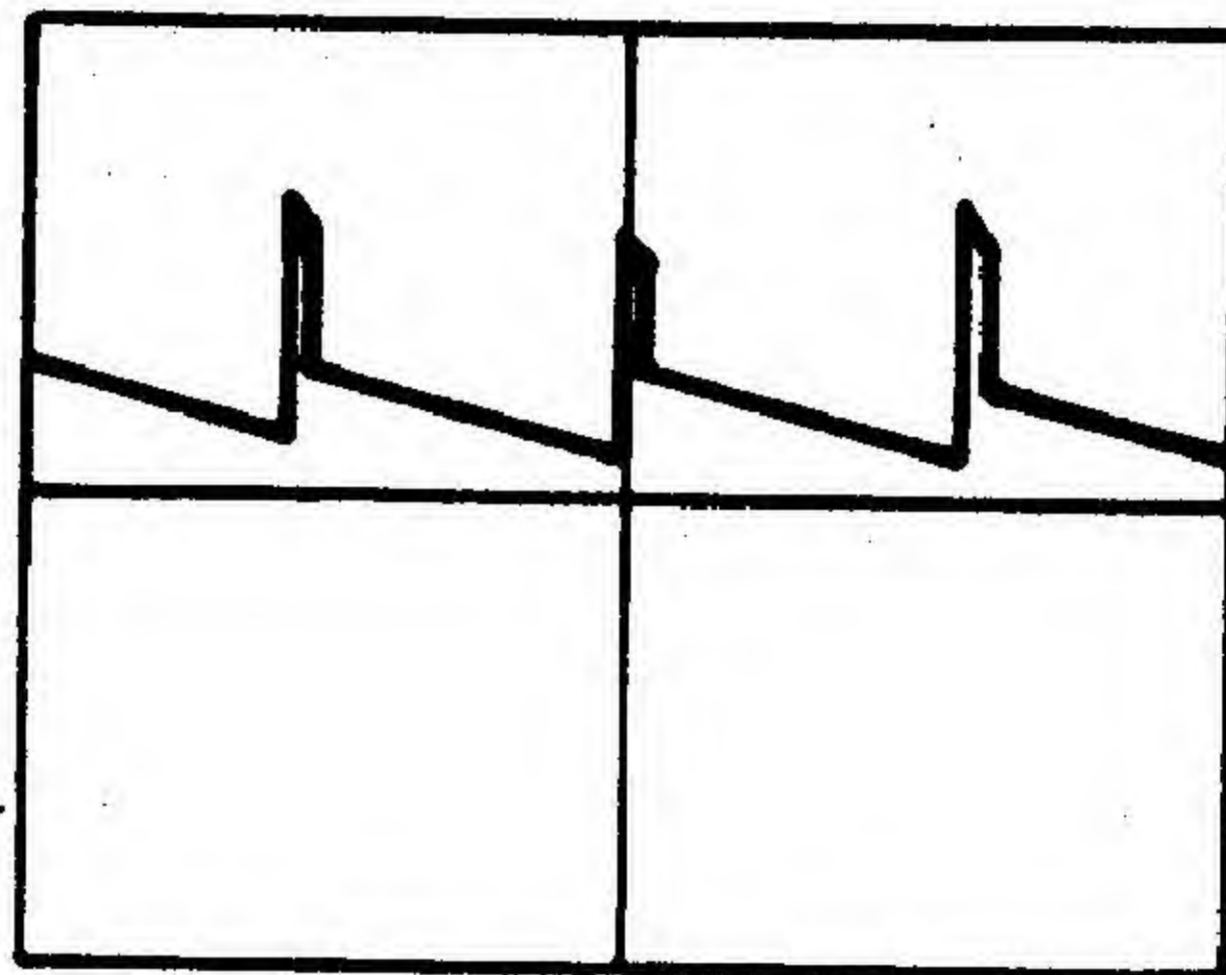
⑧ 11.92V



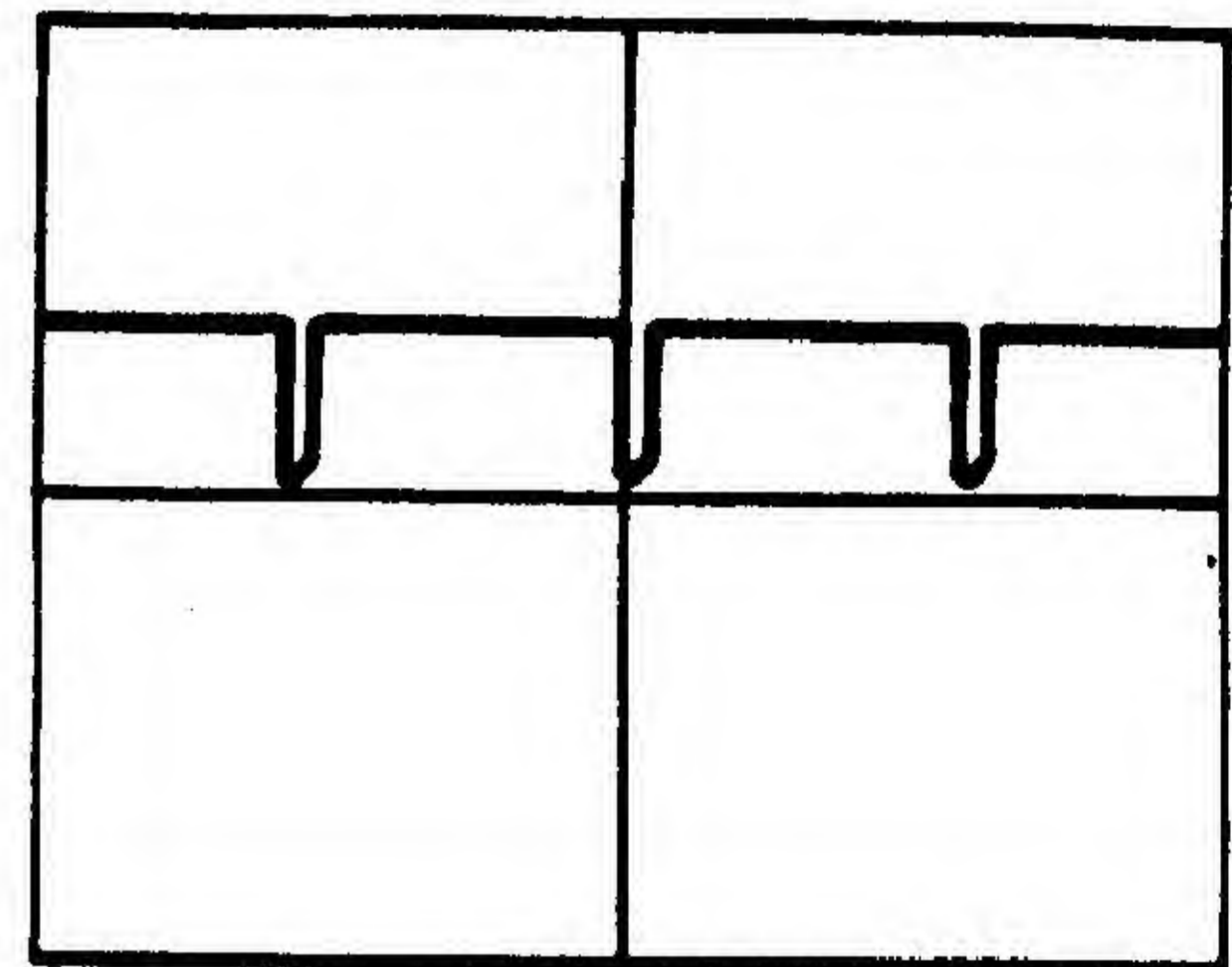
⑨ 24Vp-p
71.43Hz



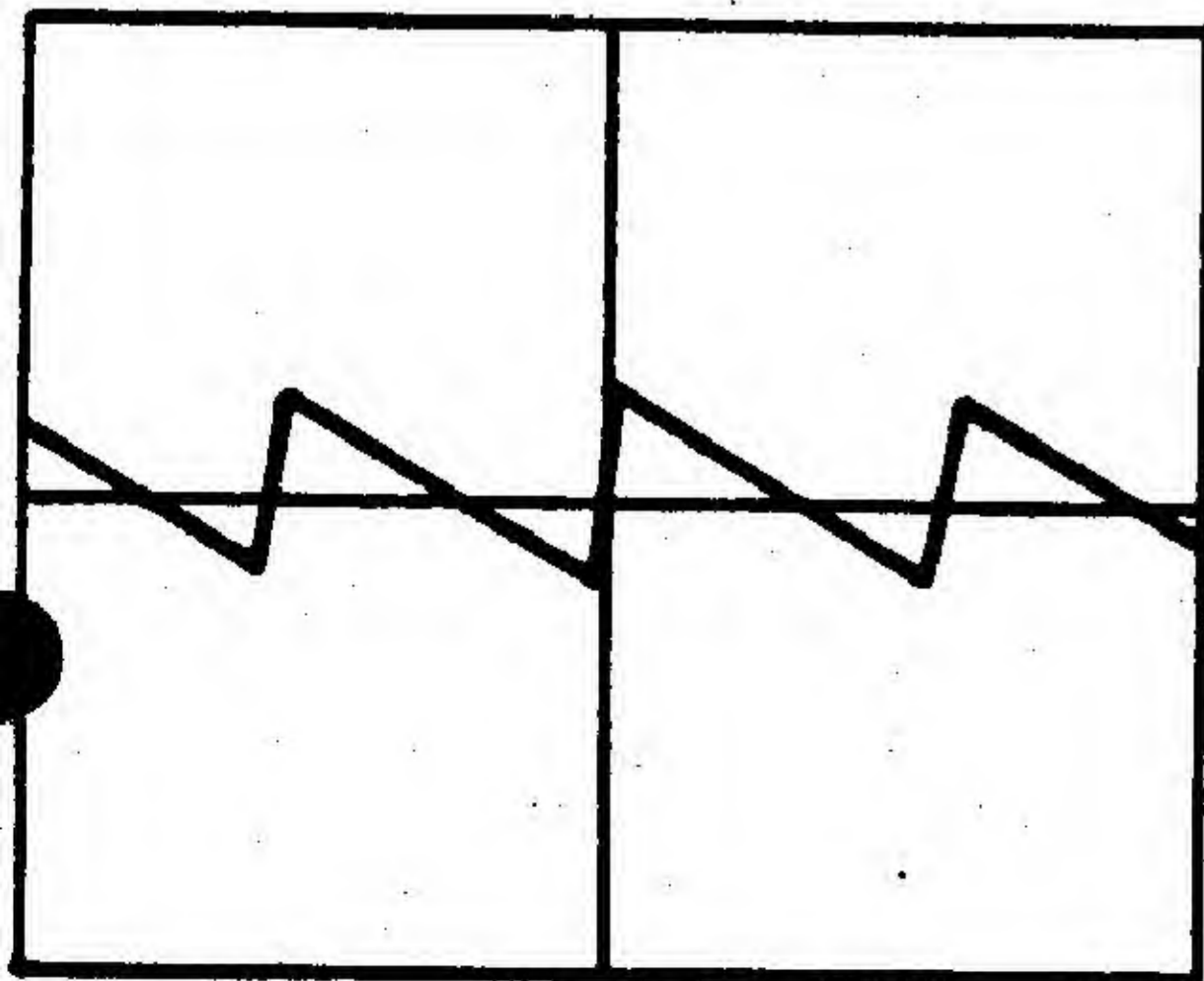
⑩ 12Vp-p
71.43Hz



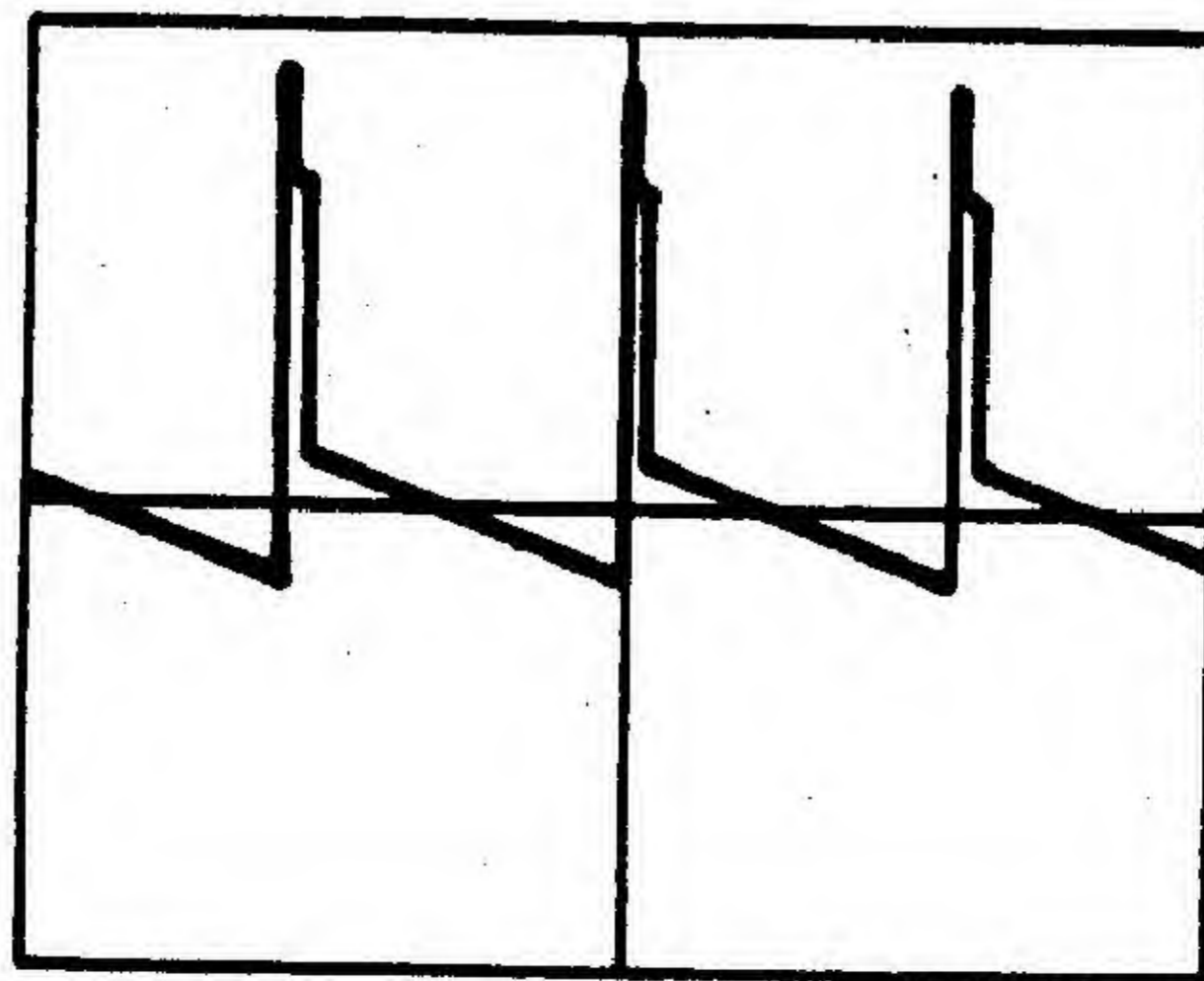
⑪ 2.5Vp-p
71.43Hz



⑫ 0.7Vp-p
71.43Hz



⑬ 0.85Vp-p
71.43Hz



⑭ 22Vp-p
71.43Hz

