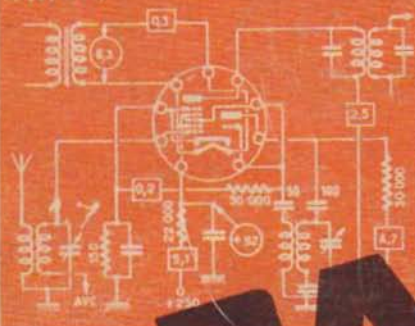


★ E. AISBERG ★ L. GAUDILLAT ★ R. DE SCHEPPER ★

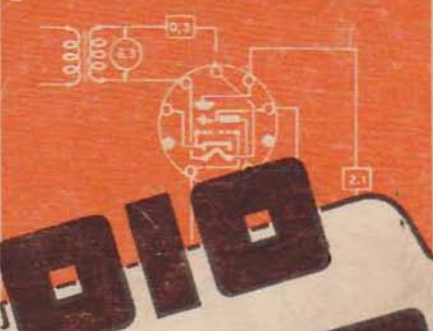
ECH81 / 6AJ8 (N)

C (V) (FM)



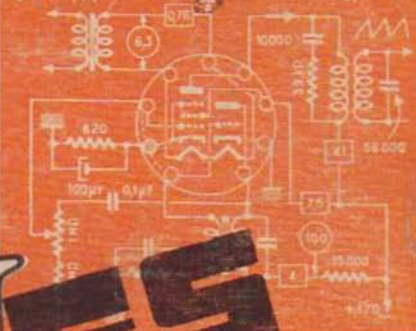
EM85 / 6DU6 (N)

I



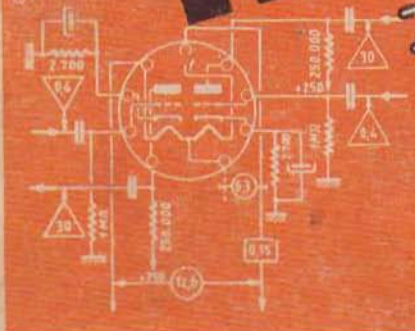
ECL82 / 6BM8 (N)

O + P (T)



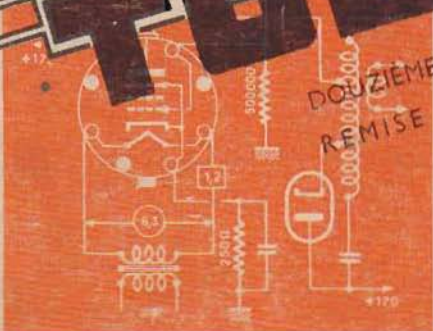
ECC83 / 12AX7 (N)

BF



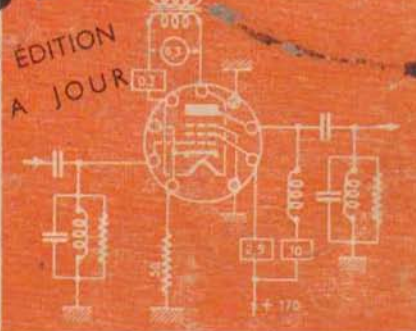
EM85 / 6DU6 (N)

I



ECL82 / 6BM8 (N)

O + P (T)



**RADIO
TUBES**

DOUZIÈME ÉDITION
REMISE À JOUR

SOCIÉTÉ DES ÉDITIONS RADIO — PARIS

4 revues

TÉLÉVISION

Magazine mensuel
fondé en 1939

Directeur : E. AISBERG

Le numéro 1,80 NF

françaises

== TOUTE == L'ÉLECTRONIQUE

Anciennement TOUTE LA RADIO

Revue mensuelle de technique
expliquée et appliquée
Fondée en 1934

Directeur : E. AISBERG

Le numéro 2,70 NF

ÉLECTRONIQUE Industrielle

Revue bimestrielle
de technique moderne
destinée aux promoteurs
et aux utilisateurs des
méthodes et appareils
— électroniques. —

Le numéro 3,90 NF

RADIO CONSTRUCTEUR & DÉPANNEUR

Revue mensuelle
de pratique radioélectrique
Fondée en 1937

Rédacteur en chef : W. SOROKINE

Le numéro 1,80 NF

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SOCIÉTÉ DES ÉDITIONS RADIO

9, RUE JACOB, 9
PARIS-6* (ODE. 13-65)

☆ E. AISBERG ☆ L. GAUDILLAT ☆ R. DE SCHEPPER ☆

RADIO-TUBES

CARACTÉRISTIQUES ESSENTIELLES ET SCHÉMAS D'UTILISATION

Essential constants and
practical circuit diagrams



Características esenciales
y esquemas de utilización



Wichtigsten Charakteristiken
und Schaltungs - Schemata



Onmisbare Karakteristieken
en gebruikschemata's

SOCIETE DES EDITIONS RADIO

9, rue Jacob - Paris - 6°

PRÉFACE

RADIO-TUBES ne prétend pas remplacer les recueils de caractéristiques détaillées avec diverses courbes. Il est destiné à l'utilisateur des tubes électroniques et vise à lui en faciliter l'usage. C'est donc un ouvrage essentiellement pratique qui a sa place au laboratoire et à l'atelier.

Chaque tube est représenté par son culot vu par en dessous. Il est accompagné de ses caractéristiques de service essentielles, et les conditions normales d'emploi figurent dans un schéma-type où sont indiquées les valeurs des éléments principaux.

Les abréviations et signes conventionnels suivants y sont utilisés :

1. FONCTION (sous le nom du tube) :

- BF - Amplification à fréquence acoustique;
- D - Détection, démodulation;
- C - Changement de fréquence, mélangeur;
- HF - Amplification haute fréquence ou moyenne fréquence;
- I - Indicateur visuel d'accord;
- M - Tube spécial pour appareil de mesure;
- O - Oscillateur;
- P - Etage final de puissance;
- PH - Inverseur de phase (amplificateur BF);
- R - Redresseur;
- S - Séparatrice;
- T - Tube utilisé en télévision;
- THT - Très-haute tension;
- V - Indique que le tube est à pente variable;
- VF - Amplification à vidéo-fréquence;
- VHF - Tube pouvant fonctionner à des fré-

quences supérieures à 5 MHz ou spécialement étudié pour ondes ultra courtes.

2. SUPPORT (lettre entourée d'un cercle

à côté ou en dessous de la fonction) :

- A8 8 broches allemand;
- E Européen ancien;
- L Octal (ou « clef »);
- M Miniature;
- N Noval;
- O Octal;
- R Rimlock;
- S Spécial;
- SM Subminiature;
- T Transcontinental;
- US Américain ancien.

3. CORRESPONDANCE :

Le signe / indique que le même tube existe sous deux noms (exemple : 6BF80 / 6N8);

Le signe = signale une interchangeabilité complète malgré quelques faibles différences de structure (exemple : 5749 = 6BA6). Les caractéristiques ne figurent alors qu'une fois et ce sous la dénomination la plus usuelle;

Un tube inscrit entre parenthèses à côté d'un autre indique qu'ils ont des caractéristiques plus ou moins semblables, mais qu'ils diffèrent par le chauffage, les capacités internes ou le culot.

4. CARACTERISTIQUES STATIQUES

(en haut à droite des schémas) :

- S - Pente en milliampères par volt;

Sc - Pente de conversion dans le cas d'un changeur de fréquence;

μ - Coefficient d'amplification;

p - Résistance interne;

V - Tension de polarisation de la grille de commande;

Req - Résistance équivalente de souffle (tubes utilisés en VHF).

5. SYMBOLES DANS LES SCHEMAS :

 Un chiffre dans un cercle indique la tension continue entre deux points ou entre un point et la masse ainsi que la tension alternative ou continue de chauffage.

 Un chiffre dans un rectangle indique l'intensité en ampères dans le circuit de chauffage et en milliampères.

 Un chiffre dans un triangle indique la tension efficace du signal appliqué entre deux points ou entre un point et la masse.

 Le chiffre à l'intérieur de la figure donne la puissance maximum en watts (généralement pour une distorsion totale de 10 %). Le nombre placé extérieurement donne la valeur de l'impédance de charge recommandée.

 Les flèches indiquent l'entrée et la sortie des signaux.

 Signe indiquant que le tube fonctionne en régime d'impulsion.

 Broche connectée intérieurement; doit obligatoirement rester libre.

 Broche connectée à un écran; doit être mise à la masse.

 Broche non connectée intérieurement.

PREFACE

RADIO-TUBES is not intended to supersede a collection of detailed data, characteristics and graphs. Its aim is to help all those who make use of electronic tubes by enabling them to find easily the necessary information.

Each tube is shown with its base as seen from underneath. The information given includes the essential service characteristics and a circuit diagram showing the normal value of the principal components to be used in its most usual function.

The following abbreviations and symbols are used:

1. FUNCTION (below the name of the tube):

- BF** - Audio frequency amplification;
- D** - Detection, demodulation;
- C** - Frequency changer, mixer;
- HF** - High or intermediate frequency amplification;
- I** - Tuning indicator;
- M** - Special tube for measure instruments;
- O** - Oscillator;
- P** - Power amplifier, output tube;
- PH** - Phase inverter (AF amplifier);
- R** - Rectifier;
- S** - Sync separator tube;
- T** - Tube normally used in television receivers;
- THT** - Very high tension (television receivers);
- V** - Variable mu tube (remote cutoff);
- VF** - Video frequency amplification;
- VHF** - Very high frequency. Tube suitable for frequencies higher than 5 MHz or specially built for ultra-short waves.

2. TUBE BASE (letter enclosed in a circle or besides below the function):

- A8** German 8 pin;
- E** Old type european base;
- L** Localt (lock-in);
- M** Miniature (7 pin);
- N** Noval (miniature 9 pin);
- O** Octal;
- R** Rimlock;
- S** Special;
- SM** Subminiature;
- T** Transcontinental (european side-contact);
- US** Old type american base.

3. INTERCHANGEABILITY :

The sign / means that the same tube exists under two names (example: EBF80 / 6N8).

The sign = indicates that the tubes are completely interchangeable notwithstanding small structural differences (example: 5749 = 6BA6). The characteristics are then only given once and apply to the most commonly used type.

A tube enclosed by brackets placed next to another one indicates that they are more or less similar as regards their electronic properties but have different filament characteristics, internal capacities or base.

4. STATIC CHARACTERISTICS (right

- hand upper corner);
- S** - Mutual conductance (mA/V);
- Sc** - Conversion conductance (frequency changer);

- μ - Amplification factor;
- ρ - Internal resistance;
- V** - Negative grid voltage;
- Req** - Equivalent noise resistance (VHF tubes).

5. SYMBOLS USED IN THE CIRCUIT

DIAGRAMS:

② A number enclosed in a circle shows the DC voltage between two points or between a point and the ground and also the RMS or DC filament voltage.

5 A number in a rectangle shows the current in amperes flowing through the heater circuit and in mA elsewhere.

4 A number in a triangle indicates the maximum alternating voltage allowable between two points or between a point and the ground.

3W The number inside this symbol is the maximum output power in watts (generally for 10% total distortion). The number along the side of the symbol is the recommended anode load resistance.

→ Arrows indicate the points of input and output of the signals.

⏏ The symbol shows that the signal delivered to the tube is in form of pulses.

⊗ Internally connected pins that must be left free.

⦿ Pins connected to an internal screen and must be grounded.

● Pins that are not internally connected.

PREFACIO

Cada válvula está representada por su casquillo visto por debajo. Va acompañada de sus **características esenciales de servicio** y, en un esquema-tipo, figuran las condiciones normales de funcionamiento, donde se indican los valores de los elementos principales.

En el manual se emplean las abreviaturas y signos convencionales siguientes :

1. FUNCION (Inmediatamente debajo de

la denominación de la válvula) :

- BF - Amplificación de audiofrecuencia;
- D - Detección, demodulación;
- C - Conversora de frecuencia;
- HF - Amplificación en mediana y alta frecuencia;
- I - Indicador visual de sintonía;
- M - Tubo especial para instrumentos de medida;
- O - Osciladora;
- P - Etapa final de potencia;
- PH - Inversora de fase (amplificador BF);
- R - Rectificadora;
- S - Separadora;
- T - Tubo utilizado en televisión;
- THT - Muy alta tensión;
- V - Indica que el tubo es de pendiente variable;
- VF - Amplificación en video-frecuencia;
- VHF - Válvula capaz de funcionar a frecuencias superiores a los 5 Mc/s o especialmente diseñada para ondas ultracortas.

2. BASE (Letra rodeada de un círculo y situada, bien debajo o al lado de la que expresa la función) :

- A8 8 patillas de conexión tipo alemán;
- E Europea antigua;
- L Locat;
- M Tipo miniatura;
- N Tipo noval;
- O Octal;
- R Rimlock;
- S Especial;
- SM Tipo subminiatura;
- T Transcontinental;
- US Americana antigua.

3. CORRESPONDENCIA :

El signo / indica que la misma válvula existe con dos denominaciones distintas (ejemplo : EBF80/6N8).

El signo = expresa que pueden intercambiarse completamente a pesar de algunas pequeñas diferencias en su estructura (ejemplo : 5749 = 6BA6). Las características no figuran, en consecuencia, más que una sola vez y precisamente bajo la denominación más usual.

Una válvula encerrada entre paréntesis al lado de otra indica que son de características más o menos semejantes, pero que, sin embargo, difieren en cuanto a las características del encendido de filamentos, las capacidades internas o el casquillo.

4. CARACTERÍSTICAS ESTÁTICAS

(Parte superior derecha de los esquemas) :

- S - Pendiente en miliamperios por voltio;
- Sc - Pendiente de conversión en el caso de convertidora de frecuencia;
- μ - Coeficiente de amplificación;

ρ - Resistencia interna;

V - Tensión de polarización de la rejilla de control;

Req - Resistencia equivalente de soplido (Tubos utilizados en VHF).

5. SIMBOLOS EN LOS ESQUEMAS :



Una cifra encerrada en un círculo indica la tensión continua que existe entre dos puntos o entre un punto y masa, así como también la tensión alterna o continua de alimentación de filamentos.



Una cifra encerrada en el interior de un rectángulo indica la intensidad en amperios en el circuito de alimentación de filamentos y en miliamperios en todos los demás lugares.



Una cifra en el interior de un triángulo indica la tensión eficaz de la señal aplicada entre dos puntos o entre un punto y masa.

La cifra colocada en el interior de la figura da la potencia máxima en vatios (generalmente para una distorsión total de 10 %). El número situado exteriormente da el valor de la impedancia de carga recomendada.



Las flechas indican la entrada y la salida de las señales.



Este signo indica que la válvula funciona en régimen de impulsos.



Patá conectada al interior; debe quedar libre obligatoriamente.



Patá conectada a una pantalla; debe reunirse a la masa.



Patá no existente en el zocalo de la lámpara.

VORWORT

RADIO-TUBES ist nicht bestimmt, die ausführlichen Datensammlungen mit Kurvenblättern zu ersetzen. Es wurde geschaffen, um dem Benutzer eine schnelle Übersicht über die derzeit gebräuchlichen Typen von Elektronenröhren zu geben. In erster Linie für den Praktiker bestimmt, hat dieses Buch seinen Platz in den Laboratorien und den Werkstätten.

Es umfasst alle modernen Rundfunk-, Tonverstärker- und Fernschröhren, sowie einige ältere, noch verwendete Typen.

Jede Röhre ist durch seinen von unten gesehenen Sockelanschluss dargestellt. Daneben sind die wichtigsten **Betriebsdaten** angegeben; die normalen Betriebsbedingungen lassen sich aus einem Prinzipschaltbild ansehen, in dem die hauptsächlichsten Schaltelemente eingezeichnet sind.

Hierbei werden die folgenden Abkürzungen und Zeichen benutzt :

1. VERWENDUNG (unter der Röhrenbezeichnung) :

- BF** - Tonfrequenzverstärkung;
- D** - Detektion, Demodulation;
- C** - Mischstufe;
- HF** - Hoch- oder Zwischenfrequenzverstärkung;
- I** - Abstimmungsanzeige;
- M** - Spezialröhre für Messgeräte;
- O** - Oszillator;
- P** - Leistungsstufe;
- PH** - Phasenumkehr (NF-Verstärkung);
- R** - Gleichrichter;
- S** - Impulsleib;
- T** - Fernsehgeräte;

THT - Höchstspannungsgleichrichter;

V - Veränderliche Steilheit;

VF - Videoverstärkung;

VHF - Röhre, die bei Frequenzen über 5 MHz verwendet werden kann, oder gute UKW- Eigenschaften besitzt.

2. SOCKEL (Buchstabe im Kreis, unter oder neben der Verwendung) :

A8 Deutscher 3 + 5- Stift Stahlröhrensockel;

E Alter Europasockel;

L Loktal;

M Miniatur 7 Stifte;

N Noval;

O Oktal;

R Rimlock;

S Spezial;

SM Subminiatur;

T Transkontinental;

US Alter Amerikasockel.

3. AUSTAUSCHMÖGLICHKEITEN :

Das Zeichen / bedeutet, dass für dieselbe Röhre zwei Bezeichnungen gebraucht werden (Beispiel : EBF 80/6NB).

Beim Zeichen = ist ein vollkommener Austausch trotz einiger Bauverschiedenheiten möglich (Beispiel : 5749 = 6BA6). Die Daten werden dann nur einmal angegeben, und zwar unter der gebräuchlichsten Bezeichnung.

In Klammern erscheint eine Röhre neben einer anderen bei fast gleichen Daten, aber mit Unterschieden in Heizung, Elektrodenkapazitäten oder Sockel.

4. STATISCHE DATEN (oben rechts in den Schaltbildern) :

S - Steilheit in Milliampere pro Volt;

Sc - Mischsteilheit bei Verwendung als Mischröhre;

μ - Verstärkungsfaktor;

p - Innenwiderstand;

V - Vorspannung des Steuergitters;

Req - Äquivalenter Rauschwiderstand (VHF- Röhren).

5. SCHALTSYMBOLS :

 Eine Zahl im Kreis gibt die Gleichspannung zwischen zwei Punkten, oder einem Punkte und Masse, oder auch die Heizspannung (Gleich- oder Wechselspannung) an.

 Eine Zahl im Rechteck gibt im Heizkreis den Strom in Ampere und anderorts den Strom in Milliampere an.

 Eine Zahl im Dreieck bezeichnet die effektive Signal-Wechselspannung zwischen zwei Punkten oder einem Punkt und Masse.

 Die Zahl im Symbol bezeichnet die Maximalleistung (meist bei 10 % Gesamtverzerrung). Der empfohlene Aussenwiderstand ist durch die danebenstehende Zahl angegeben.

 Die Pfeile bezeichnen Signal Ein- und Ausgang.

 Bezeichnet Impulsbetrieb einer Röhre.

 Innen verbundener Anschluss.

 Anschluss der Abschirmung, mit Masse zu verbinden.

 Innen nicht verbundener Anschluss.

VOORWOORD

RADIO-TUBES wil niet de verzamelingen van omstandige karakteristieken met verscheidene krommen vervangen. Het is bestemd voor de gebruiker van elektronische buizen en beoogd hem het gebruik ervan te vergemakkelijken. Het is dus een wezenlijk praktisch werk dat zijn plaats heeft in het laboratorium en in het werkhuis.

Het bevat alle moderne buizen bruikbaar voor de radio, de geluidsversterking of de televisie evenals sommige verouderde buizen thans nog in gebruik.

Elke buis is voorgesteld door haar voet langs onder gezien. Ze is begeleid door hare hoofdzakelijke karakteristieken en de normale gebruiksvoorwaarden komen voor in een prinsipeschema dat de waarden der bijzonderste elementen aanduidt.

De volgende afkortingen en symbolen komen erin voor :

1. FUNCTIE (onder de benaming der buis) :

- BF - Audiofrequentieversterking;
- D - Detectie, demodulatie;
- C - Frequentieomvorming (mengbuis);
- HF - Hoogfrequentie of middenfrequentie versterking;
- I - Visueel afstemmingsbuis (toeroog);
- M - Bijzondere buis voor meetapparaat;
- O - Oscillator;
- P - Eindversterkerbuis;
- PH - Faseomkeerder (in LF versterkers);
- R - Gelijkrichter;
- S - Scheidingsbuis (televisie);
- T - Televisiebuis;
- THT - Zeer hoge spanning (televisie);
- V - Duidt aan dat de buis een veranderbare steilheid heeft;

- VF - Videofrequentie versterking;
- VHF - Buis kunnende werken op hogere frequenties dan 5 MHz of bijzonder ontworpen voor ultra korte golflengten.

2. VOETTYPE (letter waarrond een cirkel onder of naast de functie) :

- A8 Acht pinnen (Duits);
- E Oud europeer;
- L Local;
- M Miniatuur;
- N Noval;
- O Octal;
- R Rimlock;
- S Speciaal;
- SM Subminiatuur;
- T Transcontinentaal (type P);
- US Oud americaans.

3. OVEREENSTEMMING :

Het teken/duidt aan dat dezelfde buis onder twee benamingen bestaat (b.v. 6BF80/6N8).

Het teken = duidt een volledige wisselbaarheid aan niettegenstaande enkele lichte structuurverschillen (b.v. 5749 = 6BA6). De karakteristieken worden dan slechts één maal aangehaald en onder de meest gebruikte benaming.

Een buis tussen haakjes naast een andere betekent dat ze min of meer gelijkaardige eigenschappen bezitten doch dat ze verschillen uit hoofde van de gloeidraad, de inwendige capaciteiten of de voet.

4. STATISCHE KARAKTERISTIEKEN

- (boven rechterzijde der schemas) :
- S - Steilheid in mA/V;
- Sc - Conversiesteilheid in geval van een mengbuis;
- μ - Versterkingsfactor;
- ρ - Inwendige weerstand;
- V - Stuurroosterspanning;
- Req - Gelijkwaardige ruisweerstand (buizen in VHF gebruikt).

5. SYMBOLEN IN DE SCHEMAS :

 Een cijfer in een cirkel betekent de gelijkspanning tussen twee punten of tussen een punt en de massa, evenals de gloeispanning (gelijk of wissel).

 Een cijfer in een rechthoek betekent de stroomsterkte uitgedrukt in ampere in de verhitingskring en elders in millampere.

 Een cijfer in een driehoek betekent de effectieve signaalspanning tussen twee punten of tussen één punt en de massa.

 Het cijfer binnen de figuur geeft de maximum uitgangsvermogen in watts (in het algemeen voor 10 % totale vervorming). Het getal erbuiten geplaatst geeft de waarde van de aanbevolde belastingsimpedantie (aanpassingswaarde).

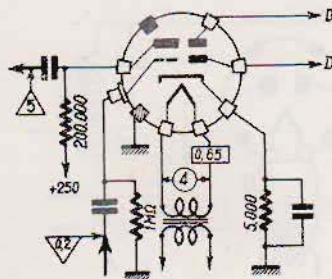
De pijlen duiden de in- en uitgang der signalen aan.

Teken beduidend dat de buis in impulsregime werkt.

-  Inwendige verbinding (vrij laten!).
-  Inwendige scherm (moet met de chassis verbonden worden).
-  Mag gebruikt worden als steunpunt.

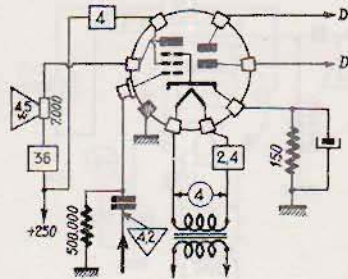
ABC1 (T)

D+BF

 $S = 2$
 $P = 13500$
 $V = -6$


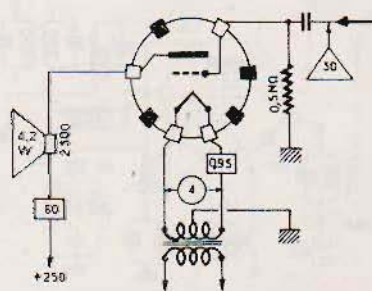
ABL1 (T)

D+P

 $S = 9$
 $P = 59000$
 $V = -6$


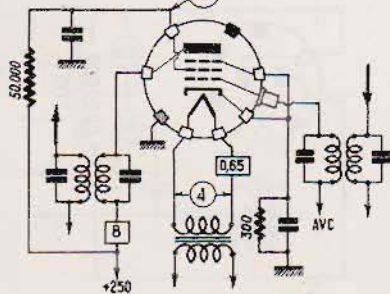
AD1 (T)

P

 $S = 6$
 $P = 650$
 $V = -45$


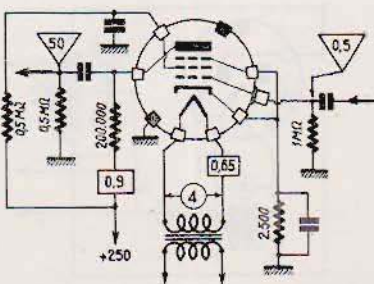
AF3 (T)

HF (V)

 $S = 1.8$
 $P = 1.2 M\Omega$
 $V = -3-55$


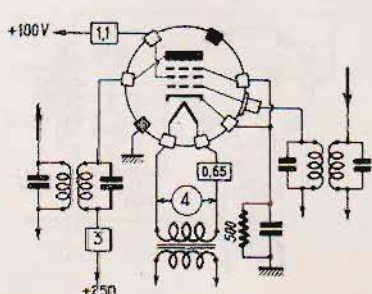
AF7 (T)

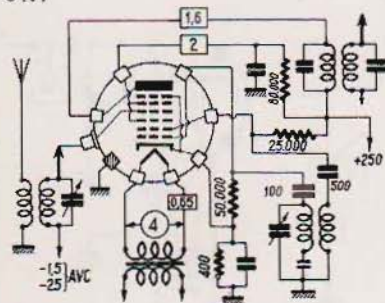
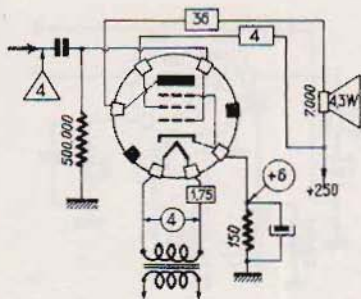
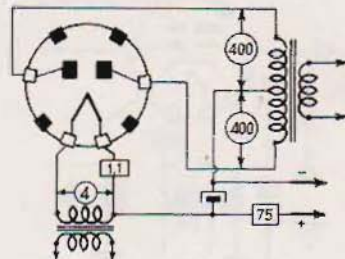
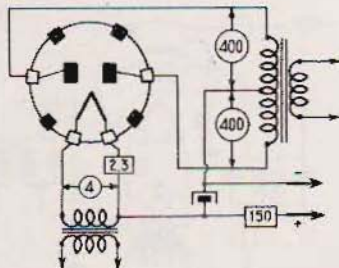
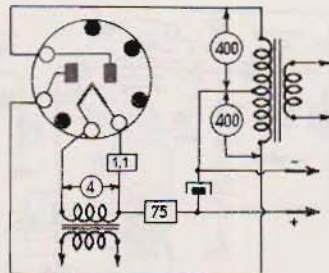
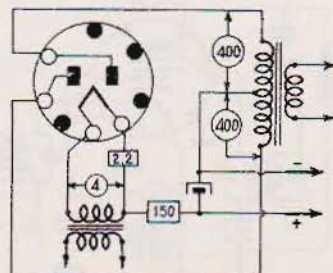
BF

 $S = 2.1$
 $P = 2 M\Omega$
 $V = -2$


AF7 (T)

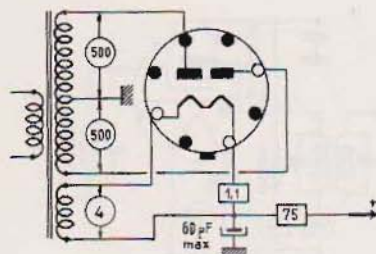
HF

 $S = 2.1$
 $P = 2 M\Omega$
 $V = -2$


AK2 ①
C(V)
 $S_e = 0,6$
 $P = 1,6 \text{ MW}$
 $V = -1,5 - 25$
AL4 ①
P
 $S_e = 9,5$
 $P = 50000$
 $V = -6$
AZ1 ①
RAZ4 ①
RAZ11 ⑧
RAZ12 ⑧
R

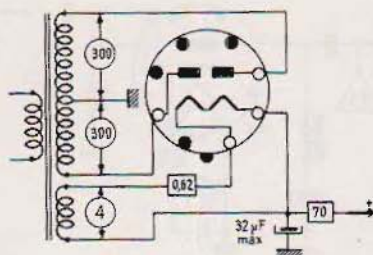
AZ 31 (O)

R



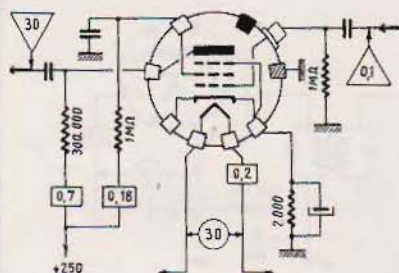
AZ 41 (R)

R



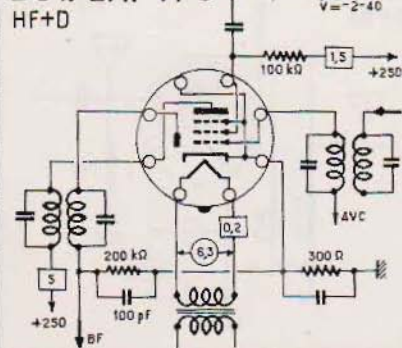
CF 50 (T)

BF

 $S = 3.3$
 $P = 2.5 \text{ M}\Omega$
 $V = -2$


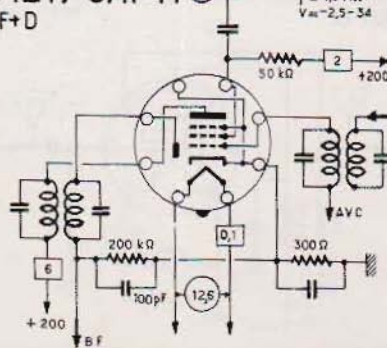
D61/EAF 41 (R)

HF+D

 $S = 1.8$
 $P = 1.2 \text{ M}\Omega$
 $V = -2-40$


D121/UAF 41 (R)

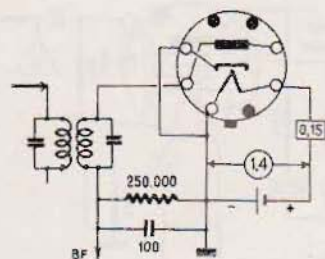
HF+D

 $S = 1.9$
 $P = 1.3 \text{ M}\Omega$
 $V = -2.5-34$


BF 61 = EL 41
 BF 62 = EL 42
 BF 451 = UL 41
 CF 61 = ECH 41
 CF 141 = UCH 41

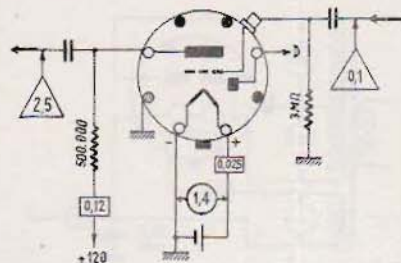
DA90/143 Ⓞ

D



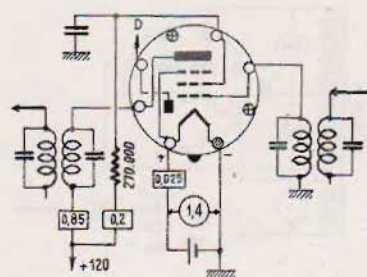
DAC21 Ⓞ

D+BF

 $S = 0,4$
 $P = 0,1 \text{ M}\Omega$
 $V = 0$


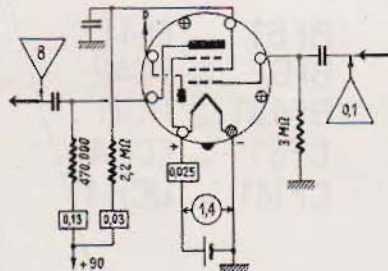
DAF40 Ⓡ

HF+D

 $S = 0,7$
 $P = 2,5 \text{ M}\Omega$
 $V = 0$


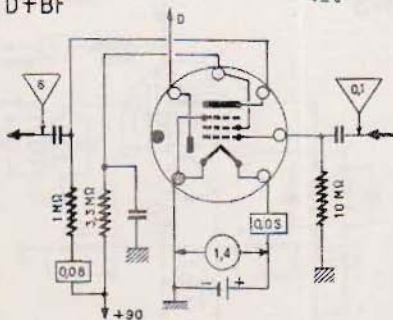
DAF41 Ⓡ

D+BF

 $S = 0,8$
 $P = 1,5 \text{ M}\Omega$
 $V = 0$


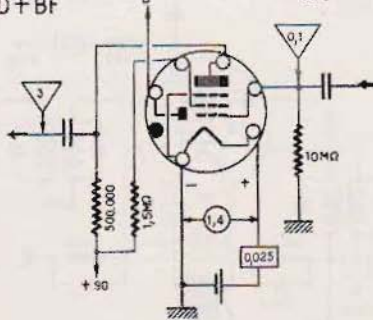
DAF91/1S5 Ⓞ

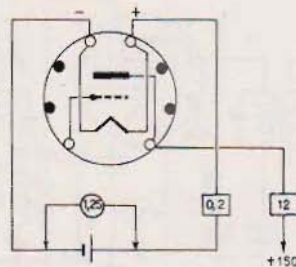
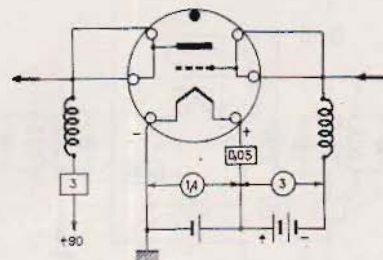
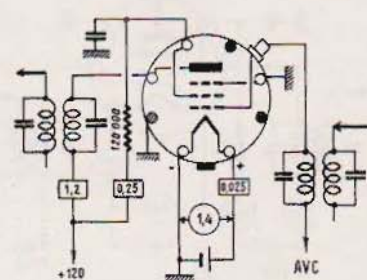
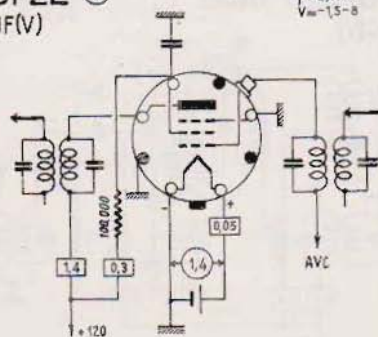
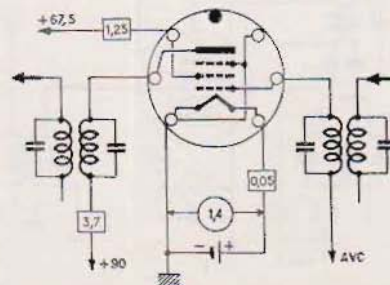
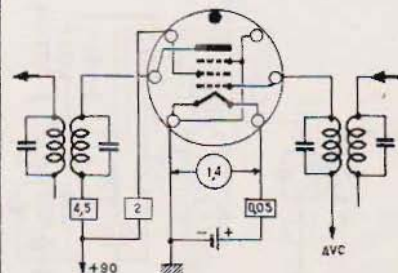
D+BF

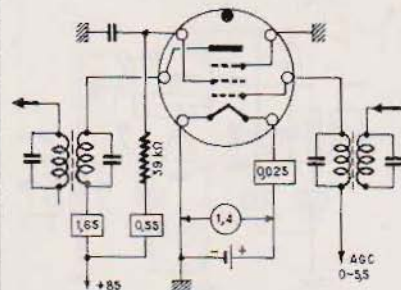
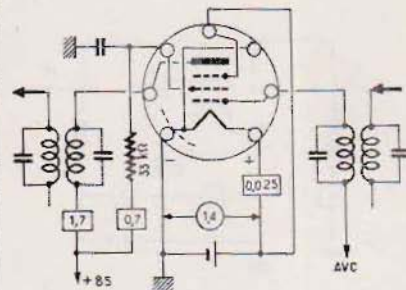
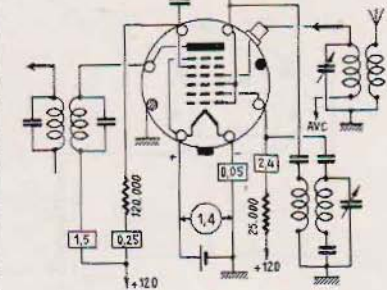
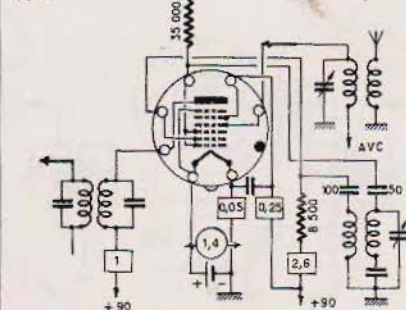
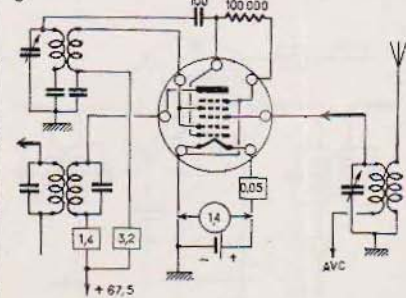
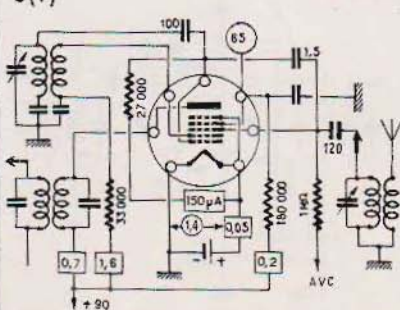
 $S = 0,62$
 $P = 0,6 \text{ M}\Omega$
 $V = 0$


DAF96 Ⓞ

D+BF

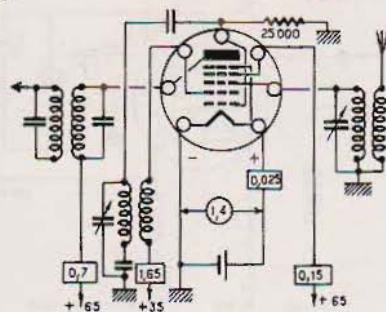
 $S = 0,4$
 $P = 1,6 \text{ M}\Omega$
 $V = 0$


DC70 (SM)
O (500MHz)
 $S = 3,4$
 $P = 4000$
 $V_m = 4,5$
DC90 (M)
HF(VHF)
 $S = 1,1$
 $V = -3$
DF21 (O)
HF(V)
 $S = 0,7$
 $P = 2,5 \text{ mW}$
 $V = 0-4,5$
DF22 (O)
HF(V)
 $S = 1,1$
 $P = 2,5 \text{ mW}$
 $V_m = 1,5-8$
DF91/1T4 (M)
HF(V)
 $S = 0,9$
 $P = 0,5 \text{ mW}$
 $V = 0-18$
DF92/1L4 (M)
HF(V)
 $S = 1,02$
 $P = 0,35 \text{ mW}$
 $V_m = 0-8$


DF96/1AJ4 (M)
HF(V)
 $S = 0,8 S$
 $P = 1 M\Omega$
 $V = 0$
DF97/1AN5 (M)
HF(V)
 $S = 0,94$
 $P = 0,45 M\Omega$
 $V = 0,7$
DK21 (O)
C
 $S = 0,5$
 $P = 1,5 M\Omega$
 $V = 0-8$
DK40 (R)
C(V)
 $S = 0,42$
 $P = 1 M\Omega$
 $V = 0-6$
DK91/1R5 (M)
C
 $S = 0,3$
 $P = 0,5 M\Omega$
 $V = 0-14$
DK92/1AC6 (M)
C(V)
 $S = 0,325$
 $P = 0,6 M\Omega$
 $V = 0-12$


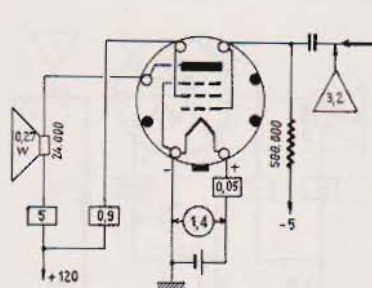
DK96/1AB6 (M)

C

 $S = 0,3$
 $P = 1 \text{ M}\Omega$
 $V = 0$


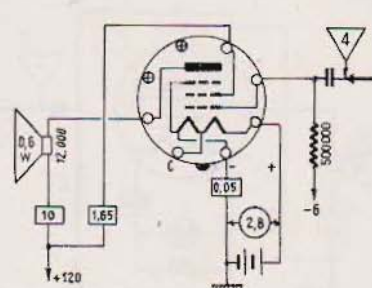
DL21 (O)

P

 $S = 1,4$
 $P = 0,35 \text{ M}\Omega$
 $V = -5$


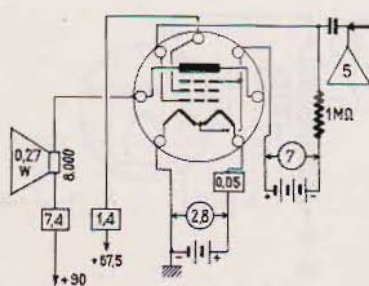
DL41 (R)

P

 $S = 2,55$
 $P = 80,000$
 $V = -5,7$


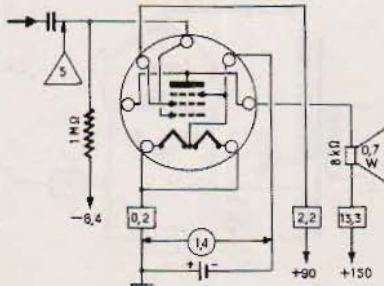
DL92/3S4 (M)

P

 $S = 1,6$
 $P = 0,1 \text{ M}\Omega$
 $V = -7$


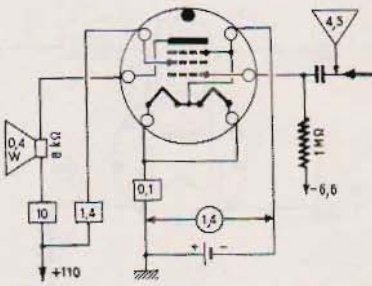
DL93/3A4 (M)

P

 $S = 1,3$
 $V = -8,4$


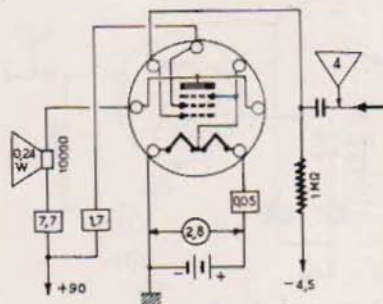
DL94/3V4 (M)

P

 $S = 2,2$
 $P = 0,1 \text{ M}\Omega$
 $V = -6,6$


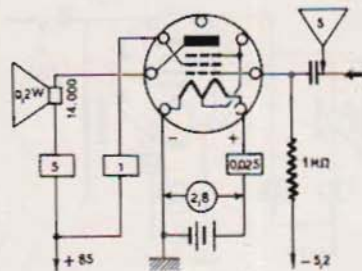
DL95/3Q4 (M)

P

 $S = 2$
 $f = 0,12 \text{ MHz}$
 $V_m = 4,5$


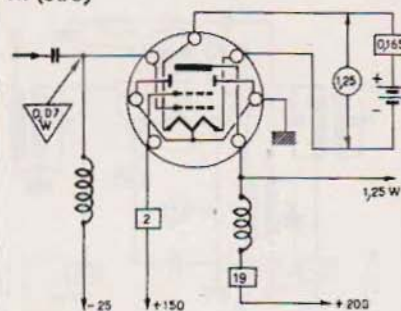
DL96/3C4 (M)

P

 $S = 1,4$
 $V_m = 5,2$


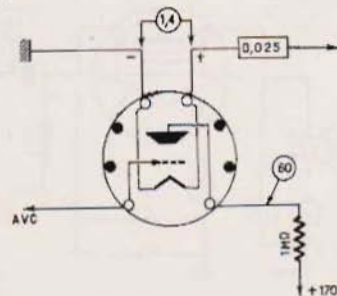
DL98/3B4 (M)

HF (C.C.)

 $S = 1,7$
 $\mu = 4,1$


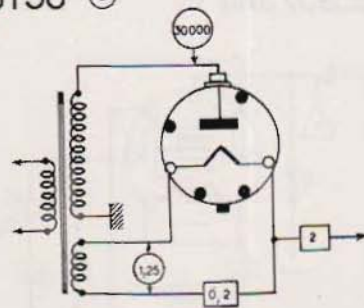
DM70/DM71/1M3

I (SM)

 $V_m = 0-10$ 

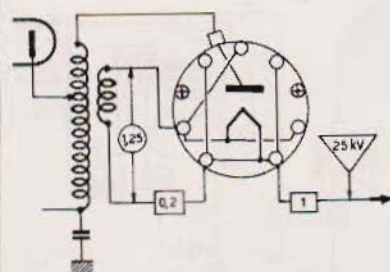
DY30 (O)

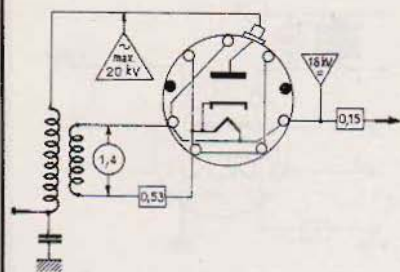
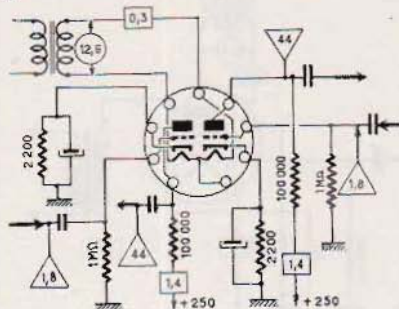
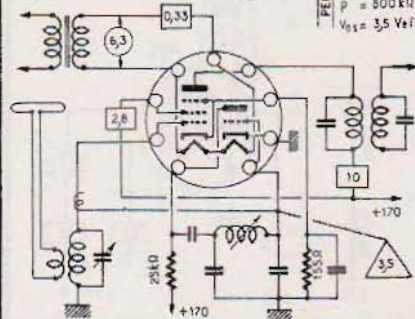
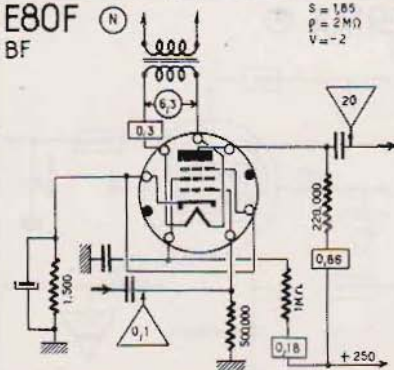
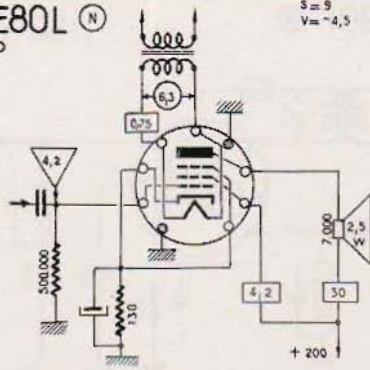
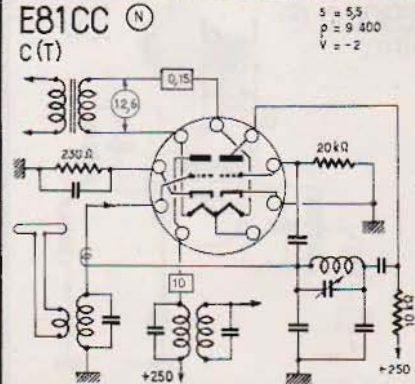
R



DY80/1X2A (N)

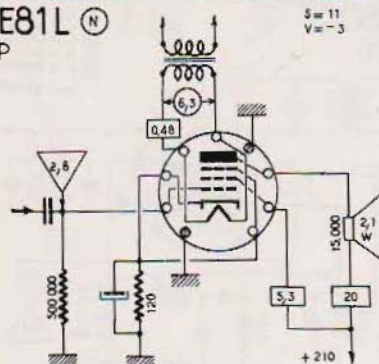
R (T)



DY86/DY87/1S2 (N)
R(T)E80CC (N)
BF
 $S = 2.9$
 $P = 11000$
 $V = -5.5$
E80CF (N)
C(T)
 $S = 5$
 $P = 18$
 $S = 6.2$
 $P = 0.4 \text{ M}\Omega$
 $S_C = 2.2$
 $P = 800 \text{ k}\Omega$
 $V_{B1} = 3.5 \text{ Veff}$
E80F (N)
BF
 $S = 1.85$
 $P = 2 \text{ M}\Omega$
 $V = -2$
E80L (N)
P
 $S = 9$
 $V = -4.5$
E81CC (N)
C(T)
 $S = 5.5$
 $P = 9400$
 $V = -2$


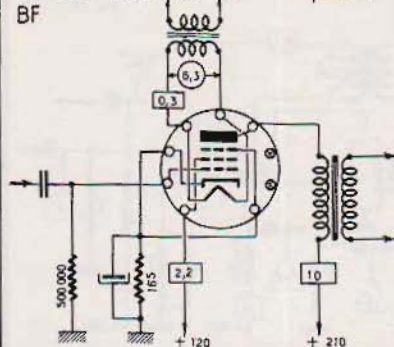
E81L (N)

P



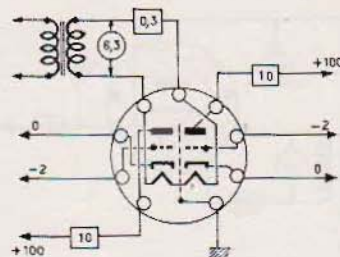
E83F/18043 (N)

BF

 $S = 9$
 $p = 0.4 M\Omega$


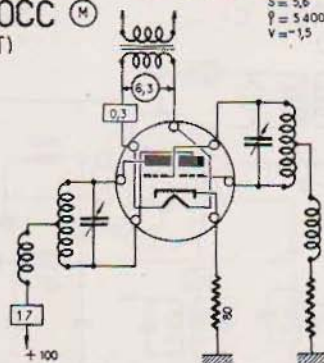
E88CC (N)

HF T

 $S = 12.5$
 $p = 2.6 k\Omega$
 $V = -2$
 $R_{eq} = 300 \Omega$


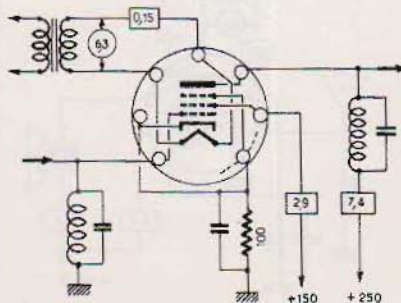
E90CC (M)

HF(T)

 $S = 5.6$
 $p = 5.400$
 $V = -1.5$


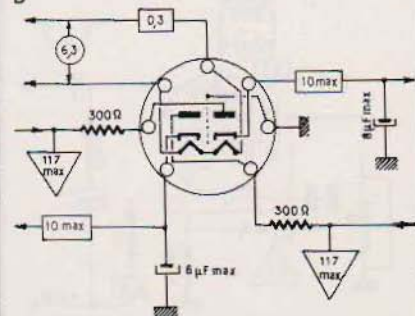
E90F (M)

HF

 $S = 4.5$
 $p = 1.3 M\Omega$


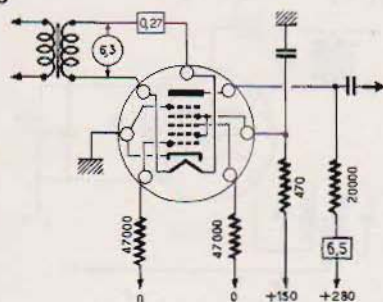
E91AA (M)

D



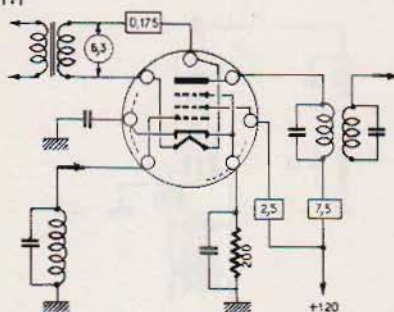
E91H (M)

S



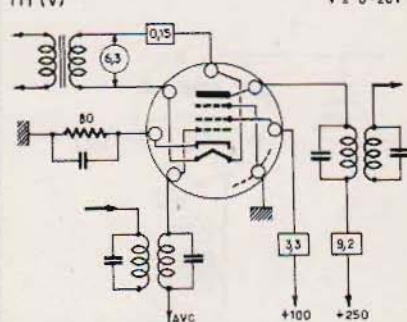
E95F (M)

HF

 $S = 5$
 $p = 0,34 \text{ Mq}$


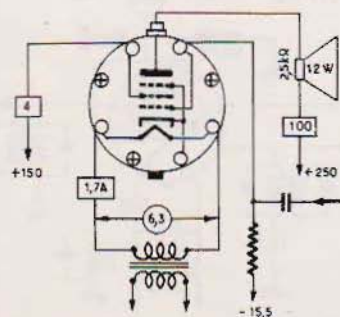
E99F (M)

HF(V)

 $S = 3,6$
 $p = 1 \text{ Mq}$
 $V = 0-20 \text{ V}$


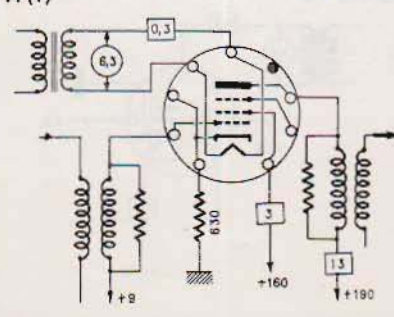
E130L (O)

P

 $S = 25$
 $p = 10 \text{ kq}$
 $V = -15,5$


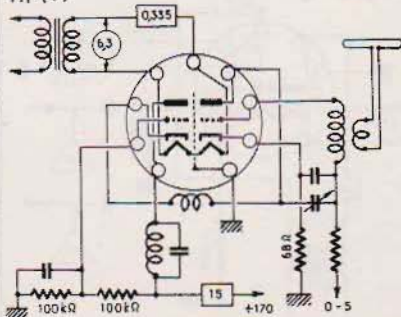
E180F (N)

VF(T)

 $S = 16,5$
 $p = 35 \text{ kq}$
 $V = -0,3$


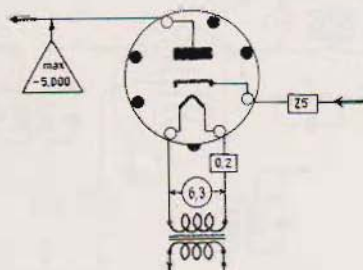
E188CC (N)

HF(T)

 $S = 12,5$
 $p = 33$
 $V = -1,2$


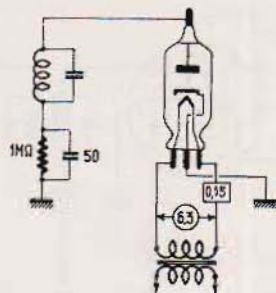
EA40 (R)

D (T)

 $\rho = 500 \Omega$ 

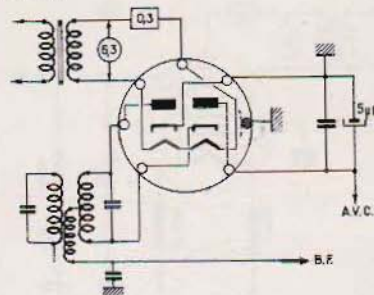
EA50/2B35 (S)

D

 $I_{max} = 5mA$ 

EAA91/EB91/6AL5 (M)

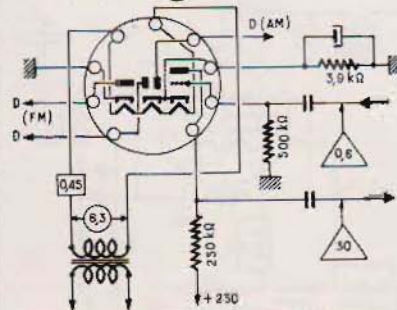
D (FM)



EABC80/6T8/6AK8

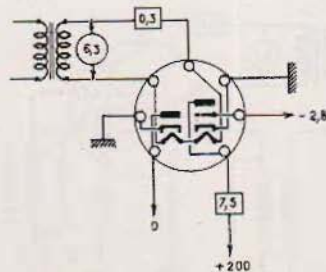
D+BF(FM)

(N)

 $S = 1,2$
 $\rho = 58000$
 $V = -3$


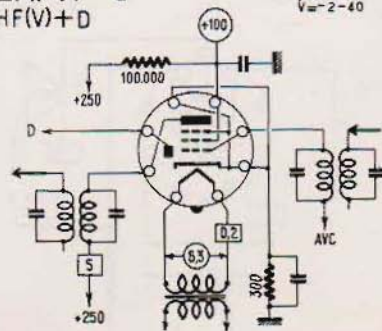
EAC91 (M)

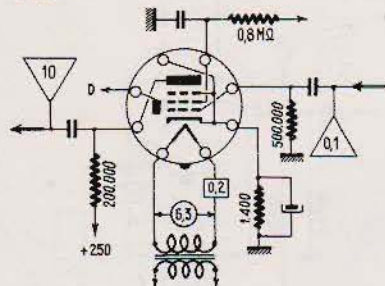
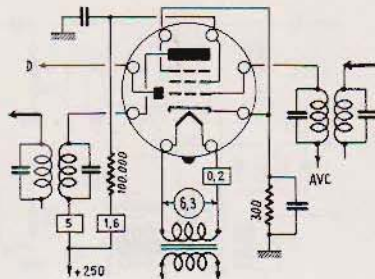
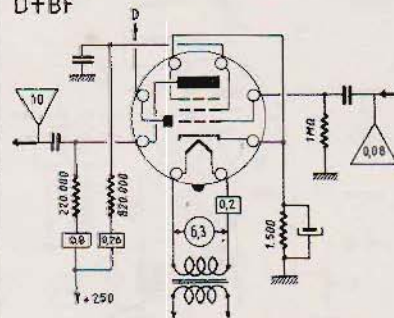
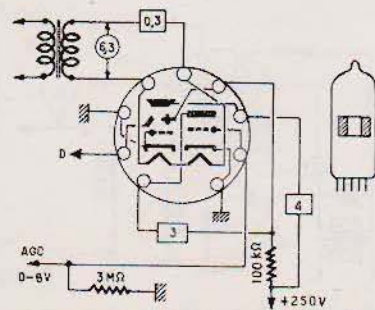
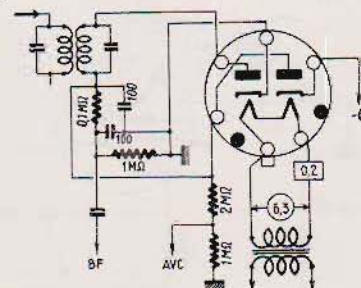
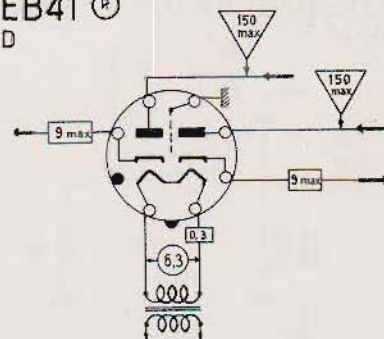
O(UHF)+D

 $S = 2,8$
 $\rho = 12800$
 $V = -2,8$


EAF41 (R)

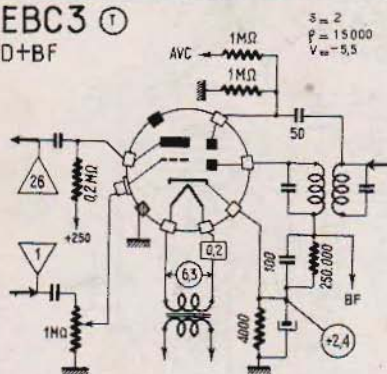
HF(V)+D

 $S = 1,6$
 $\rho = 1,2 M\Omega$
 $V = -2-40$


EAF41 (R)
BF+DEAF42/6CT7 (R)
HF+D
 $S \approx 2$
 $\rho \approx 1.4 \text{ M}\Omega$
 $V_m \approx 2-40$
EAF42 (R)
D+BFEAM86 (N)
I+D
 TRIODE
 $S \approx 3.6$
 $\mu \approx 50$
EB11 (AB)
D $I_{\text{max}} = 0.8 \text{ mA}$ EB41 (P)
D

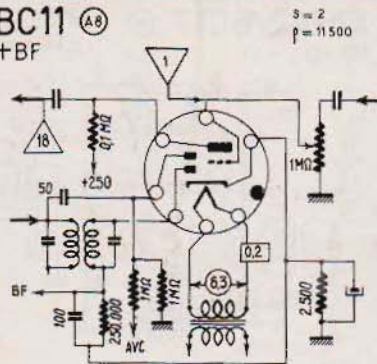
EBC3 ①

D+BF



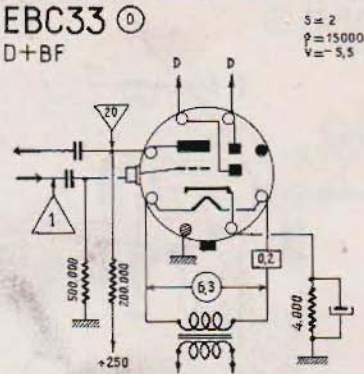
EBC11 ⑧

D+BF



EBC33 ⑩

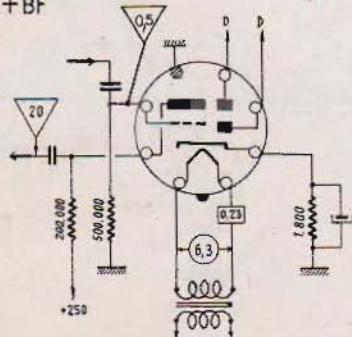
D+BF



EBC41/6CV7 ③

D+BF

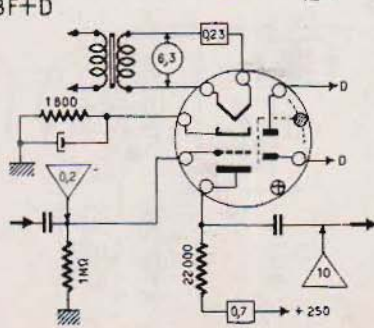
$S = 1,2$
 $P = 58000$
 $V = -3$



EBC81/6BD7 ④

BF+D

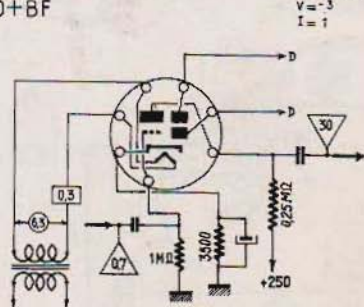
$S = 1,2$
 $P = 58000$
 $V = -3$



EBC90/6AT6 ⑤

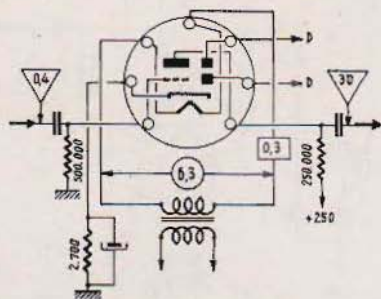
D+BF

$S = 1,2$
 $P = 58000$
 $V = -3$
 $I = 1$



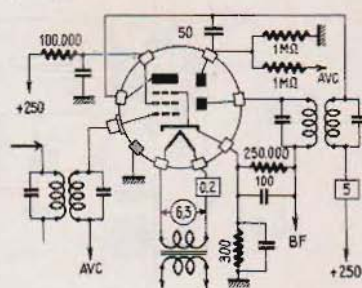
EBC91/6AV6 (H)

D+BF

 $S = 1,6$
 $p = 62000$
 $V = -2$


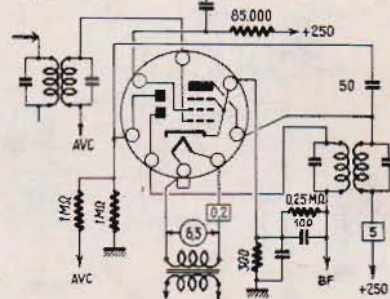
EBF 2 (I)

HF(V)+D

 $S = 1,8$
 $p = 1,5 \text{ M}\Omega$
 $V = -2 - 50$


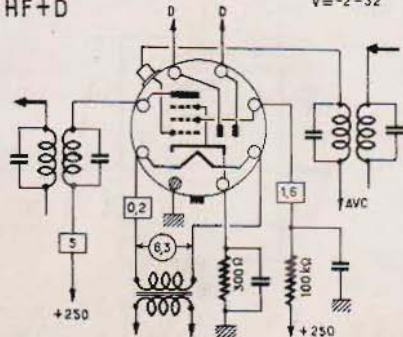
EBF11 (A6)

HF(V) + D

 $S = 1,8$
 $p = 2 \text{ M}\Omega$
 $V = -2 - 41$


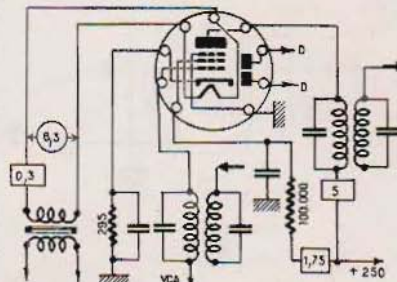
EBF32/6B8 (O)

HF+D

 $S = 1,8$
 $p = 1,3 \text{ M}\Omega$
 $V = -2 - 32$


EBF80/6N8 (N)

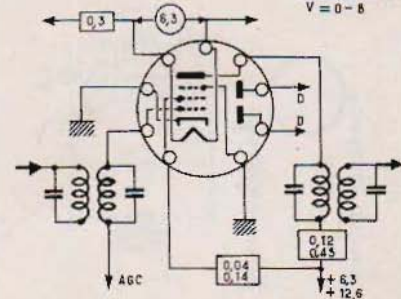
HF(V)+D

 $S = 2,2$
 $p = 1,5 \text{ M}\Omega$
 $V = -2 - 35$


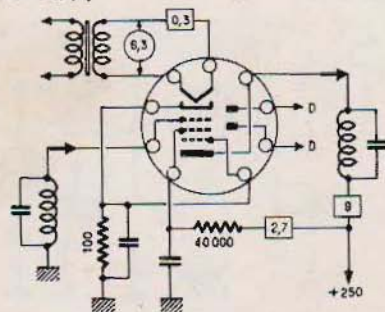
EBF83 (N)

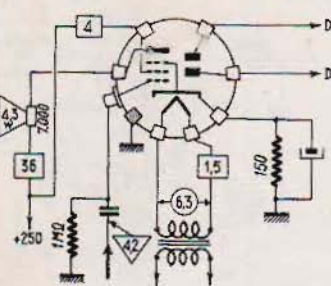
HF(V)+D

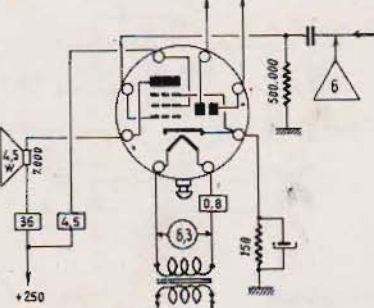
V_a	6,3	12,6
S	0,45	1
S	0,65	1M
V	0 - 6	

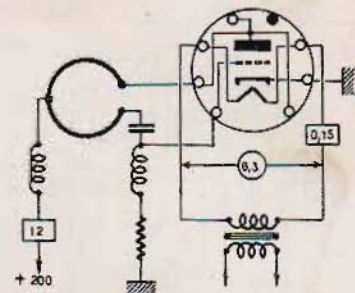


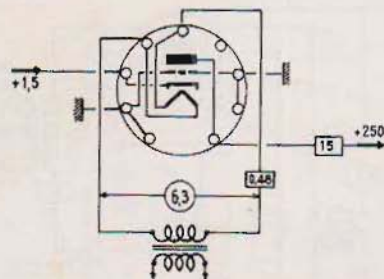
EBF89/6DC8 (N)
 HF + D(T)

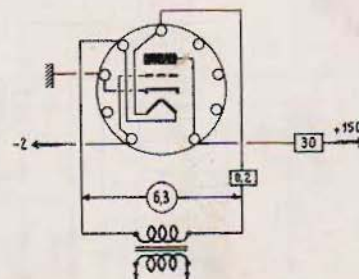
 $S = 3,8$
 $P = 1\text{ M}\Omega$
 $V = -2$

EBL1 (T)
 D+P

 $S = 9,5$
 $P = 50\,000$
 $V = -6$

EBL21 (L)
 D+P

 $S = 9$
 $P = 50\,000$
 $V = -6$

EC70 (SM)
 O(UHF)

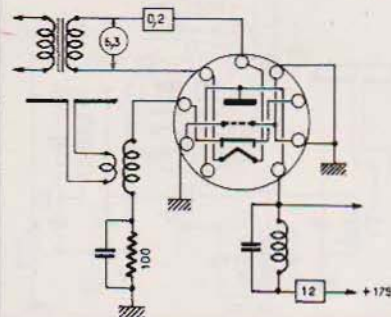
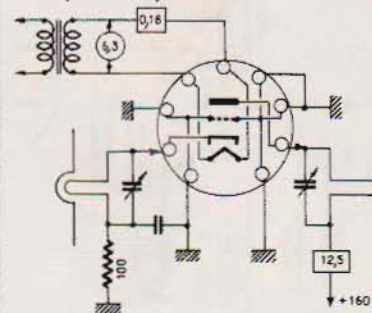
 $S = 3,5$
 $P = 4\,000$
 $V = -8$

EC80/6Q4 (N)
 UHF

 $S = 12$

EC81/6R4 (N)
 UHF

 $S = 5,5$


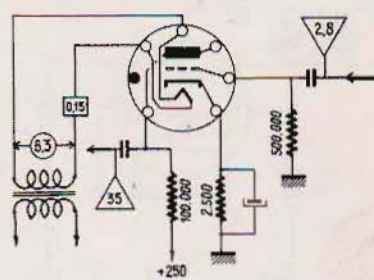
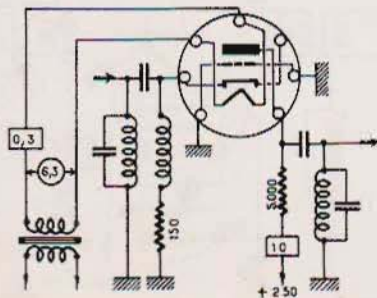
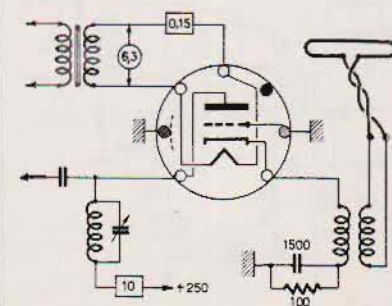
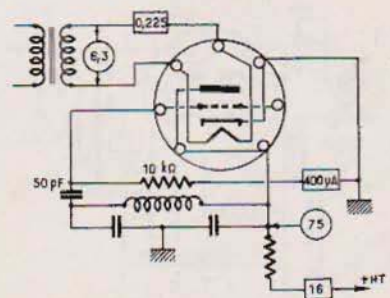
EC86 (N)

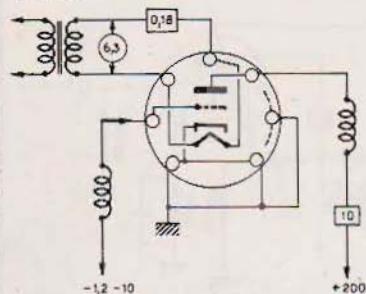
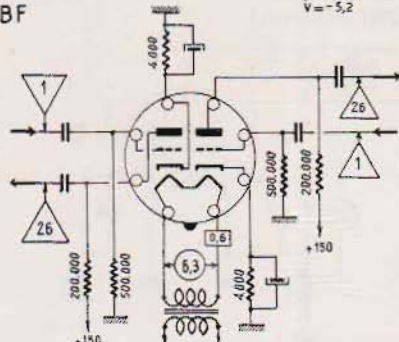
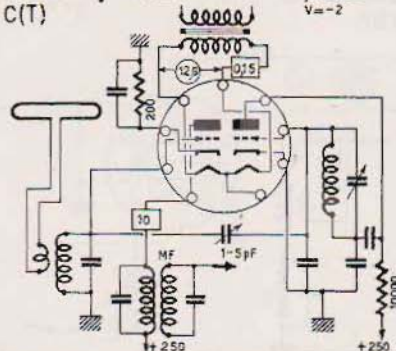
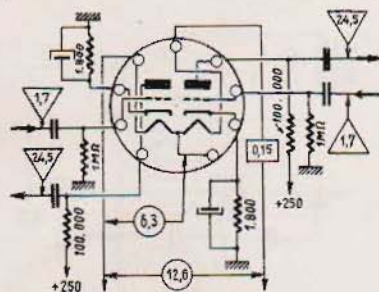
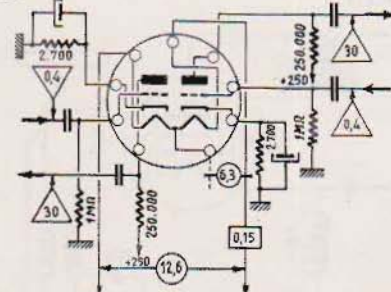
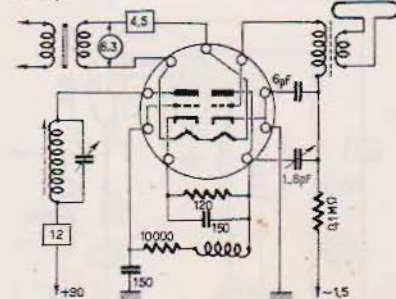
VHF

 $S = 14$
 $\mu = 68$
 $V = -1,5$
EC88 (N)
VHF (400MHz)
 $S = 13,5$
 $\mu = 65$


EC90/6C4 (M)

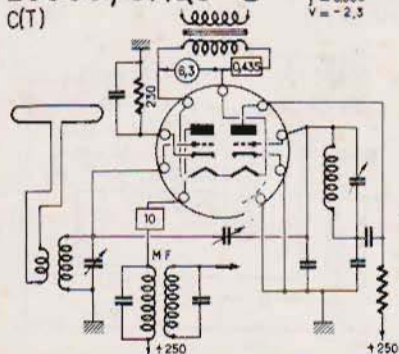
BF

 $S = 2,2$
 $p = 7720$
 $V = -8,5$
EC91 (M)
VHF (250MHz)
 $S = 8,5$
 $p = 12000$
 $V = -1,5$
EC92/6AB4 (M)
HF(T)
 $S = 5$
 $p = 12000$
 $V = -2$
EC93/6BS4 (M)
O(T) 470-890MHz
 $S = 8$
 $V = -4$


EC95 (M)
VHF(V)
 $S = 10,5$
 $\mu = 80$
ECC40 (R)
BF
 $S = 2,7$
 $\rho = 11000$
 $V_m = -5,2$
ECC81/12AT7 (N)
C(T)
 $S = 5,5$
 $\rho = 9400$
 $V_m = -2$
ECC82/12AU7 (N)
BF
 $S = 2,2$
 $\rho = 7700$
 $V_m = -8,5$
ECC83/12AX17 (N)
BF
 $S = 1,6$
 $\rho = 62000$
 $V_m = -2$
ECC84/6CW7 (N)
HF(T)
 $S = 6$
 $\rho = 10000$
 $V_m = -1,5$


ECC85/6AQ8 (N)

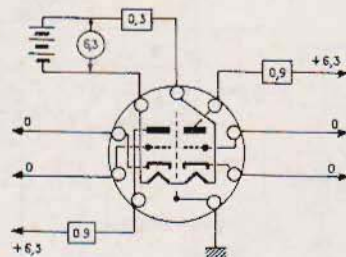
C(T)

 $S = 6$
 $p = 3,500$
 $V_m = -2,3$


ECC86

HF(Auto)

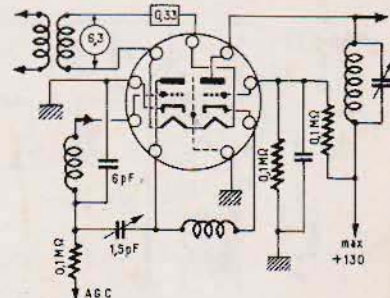
(N)

 $S = 2,6$
 $V_m = -0,4$
 $\mu = 14$
 $R_{eq} = 5 \text{ k}\Omega$


ECC88

HF(V)

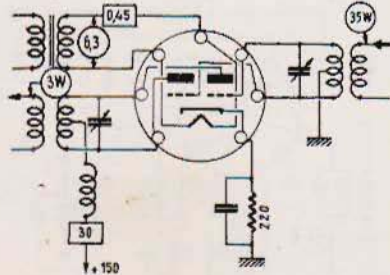
(N)

 $S = 12,5$


ECC91/6J6

HF(C.I.C)

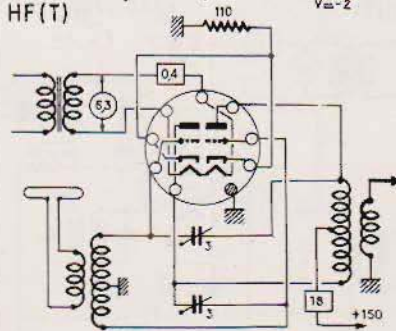
(M)

 $S = 5,3$
 $p = 7,100$
 $V_m = -10$


ECC180/6BQ7

HF(T)

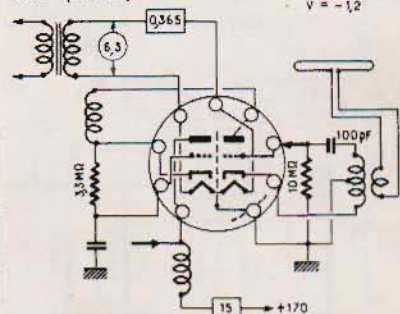
(N)

 $S = 6$
 $\mu = 5,800$
 $V_m = -2$


ECC189

VHF (T.FM)

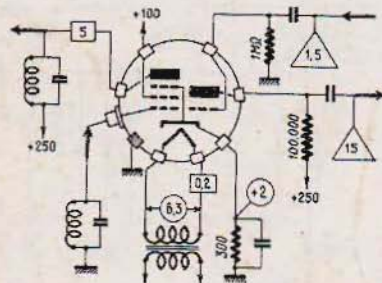
(N)

 $S = 12,5$
 $\mu = 34$
 $p = 2,6 \text{ k}\Omega$
 $V_m = -1,2$


ECF1 (T)

HF+BF

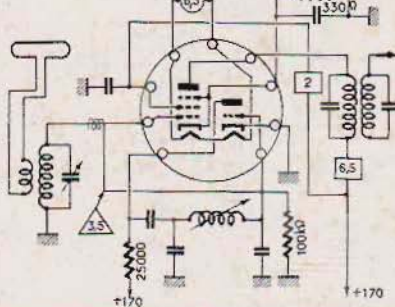
PENTHODE		TRIODE	
$S = 2,5$	$S = 2,55$	$S = 2,55$	$S = 2,55$
$V = 1,2 M\Omega$	$V = 9,000$	$V = 9,000$	$V = 9,000$
$V = -2$	$V = -2$	$V = -2$	$V = -2$



ECF80/6BL8 (N)

C(T)

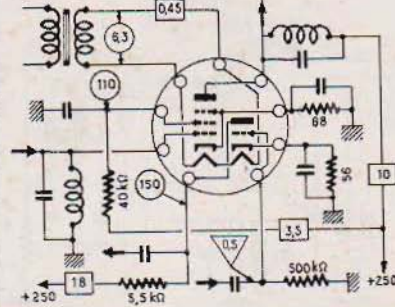
TRIODE		PENTHODE	
$S = 5$	$S = 6,2$	$S = 6,2$	$S = 6,2$
$V = 2$	$V = 22$	$V = 22$	$V = 22$
$V = -2$	$V = -2$	$V = -2$	$V = -2$



ECF82/6U8 (N)

HF, BF(T)

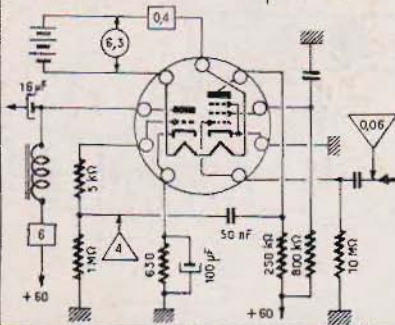
PENTHODE		TRIODE	
$S = 5,2$	$S = 8,5$	$S = 8,5$	$S = 8,5$
$V = 400 K\Omega$	$V = 5 K\Omega$	$V = 5 K\Omega$	$V = 5 K\Omega$
$V = -2$	$V = -2$	$V = -2$	$V = -2$



ECF83 (N)

BF(Auto)

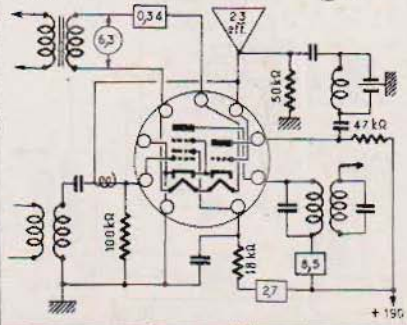
TRIODE		PENTHODE	
$S = 3,6$	$S = 1,3$	$S = 1,3$	$S = 1,3$
$V = 3 K\Omega$	$V = 0,8 M\Omega$	$V = 0,8 M\Omega$	$V = 0,8 M\Omega$
$V = -3,7$	$V = -2,3$	$V = -2,3$	$V = -2,3$



ECF86 (N)

C(T)

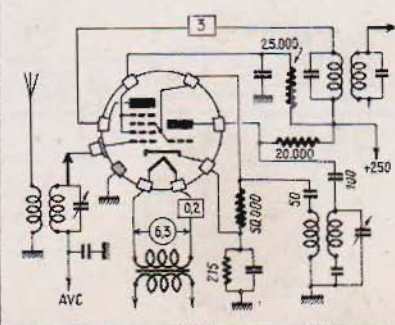
TRIODE		PENTHODE	
$S = 6$	$S = 12$	$S = 12$	$S = 12$
$V = 17$	$V = 0,35 M\Omega$	$V = 0,35 M\Omega$	$V = 0,35 M\Omega$
$V = -3$	$V = 4, 5$	$V = 4, 5$	$V = 4, 5$

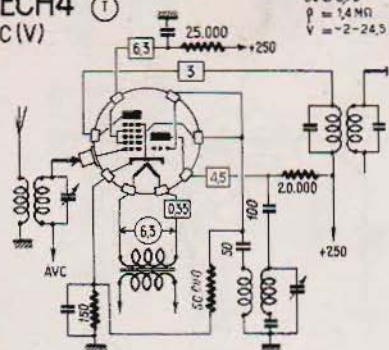
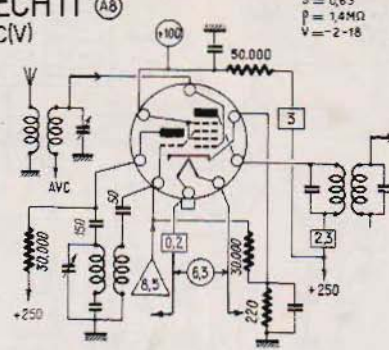
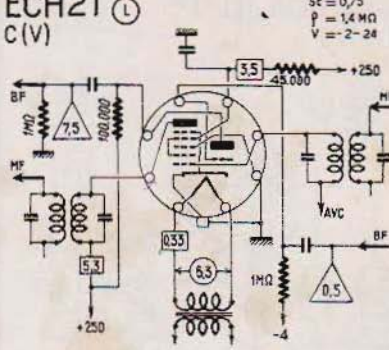
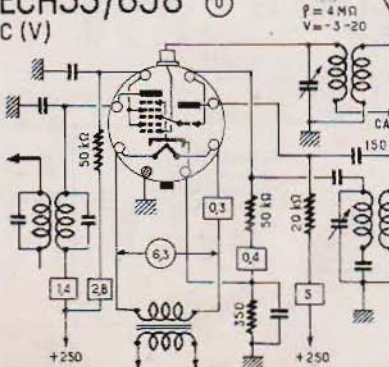
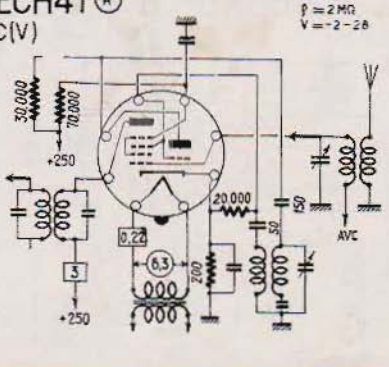
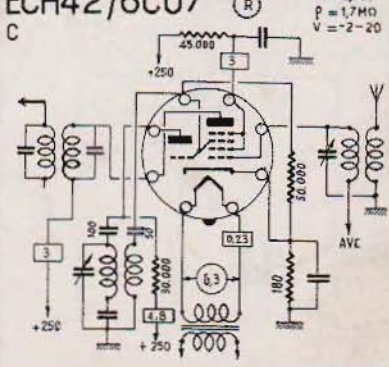


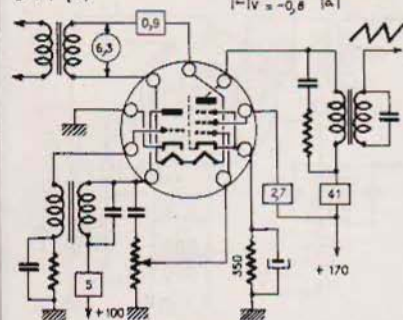
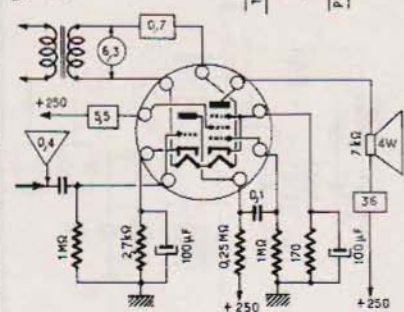
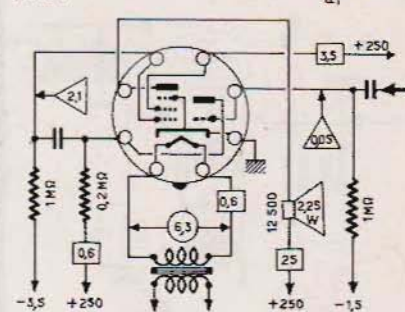
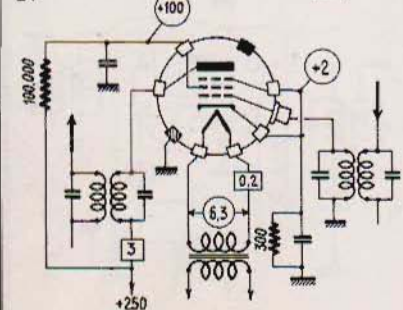
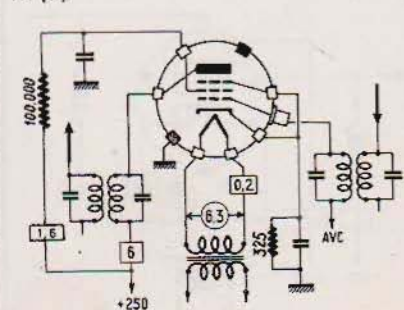
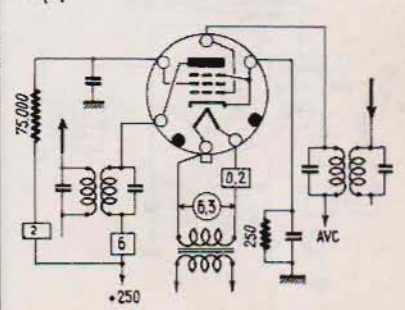
ECH3 (T)

C(V)

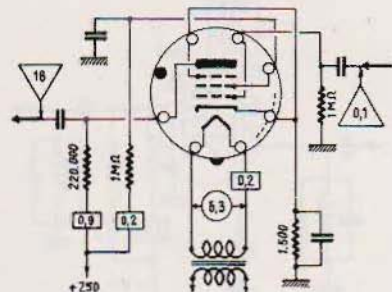
$S = 0,65$	$S = 1,3 M\Omega$
$V = -2, 3$	$V = -2, 3$

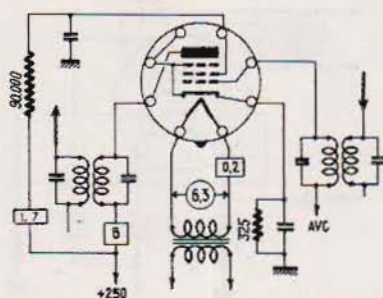


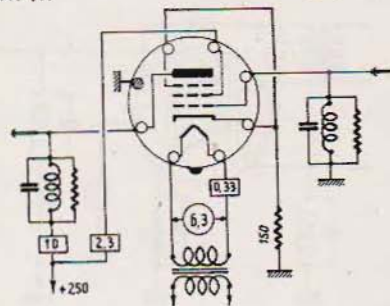
ECH4
C(V)ECH11
C(V)ECH21
C(V)ECH35/6J8
C(V)ECH41
C(V)ECH42/6CU7
C

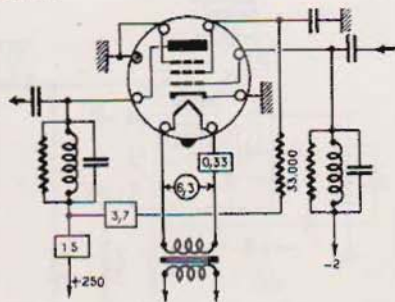
ECL85
0+P(T)ECL86
BF+PECL113
BF+PEF6
BFEF9
HF(V)EF11
HF(V)

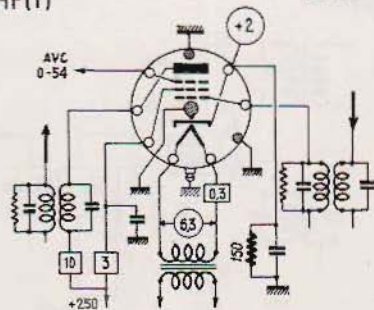
EF40 (R)
BF

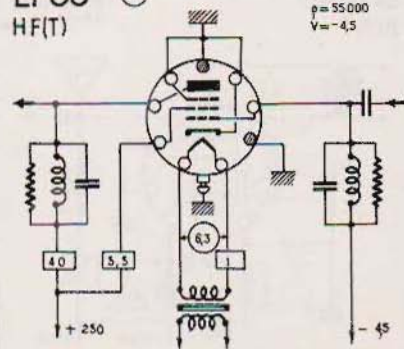
 $S = 1,85$
 $\rho = 2,5 M\Omega$
 $V = -2$

EF41/6CJ5 (R)
HF(V)

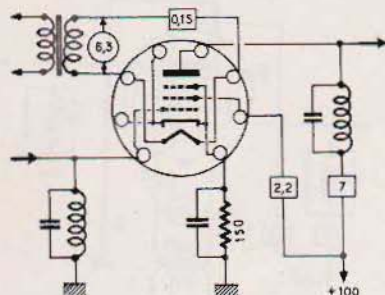
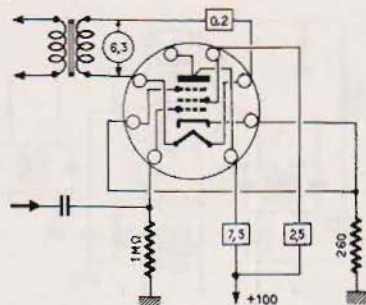
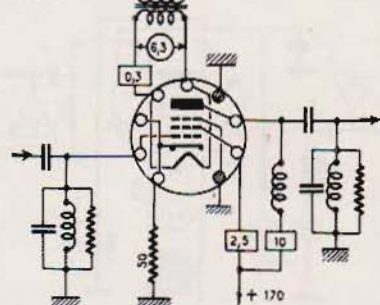
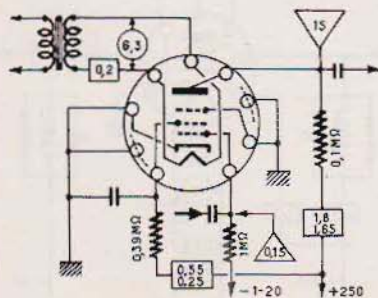
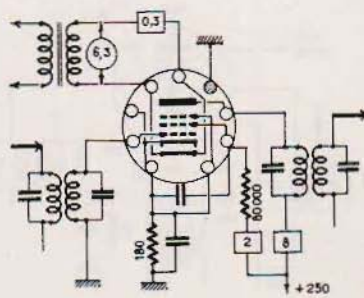
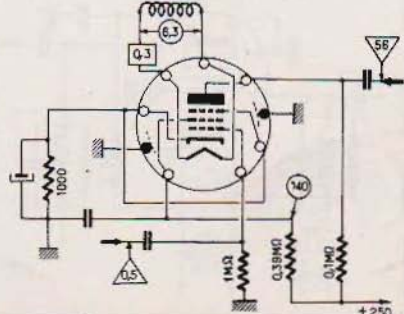
 $S = 2,2$
 $\rho = 1 M\Omega$
 $V = -2,5-59$

EF42 (R)
HF(T)

 $S = 3,5$
 $\rho = 0,5 M\Omega$
 $V = -2$

EF43 (R)
HF(T)

 $S = 6,4$
 $\rho = 0,7 M\Omega$
 $V = -2$

EF50 (S)
HF(T)

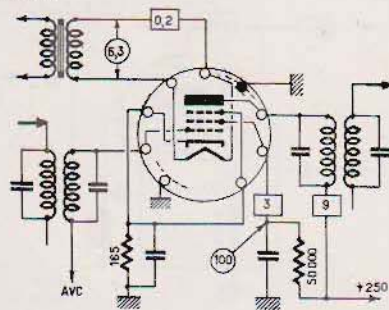
 $S = 6,5$
 $\rho = 1 M\Omega$
 $V = -2$

EF55 (L)
HF(T)

 $S = 12$
 $\rho = 55,000$
 $V = -4,5$


EF72 (SM)
HF
 $S = 5$
 $p = 0,25 \text{ M}\Omega$
 $V = -1,4$
EF73 (SM)
BF
 $S = 5,25$
 $p = 250$
 $V = -2$
EF80/6BX6 (N)
HF (T)
 $S = 7,4$
 $p = 0,4 \text{ M}\Omega$
 $V = -2$
EF83 (N)
BF(V)
 $S = 1,6$
 $p = 1,6 \text{ M}\Omega$
 $V = -1,6$
EF85/6BY7 (N)
H(T)(FM)
 $S = 5,7$
 $p = 0,5 \text{ M}\Omega$
 $V = -1,8$
EF86/6CF8 (N)
BF
 $S = 1,85$
 $p = 2,5 \text{ M}\Omega$
 $V = -2$


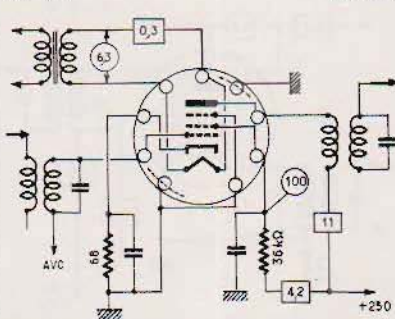
EF89/6DA6 (N)

HF(V)

 $S = 3,6$
 $P = 1,5 \text{ M}\Omega$
 $V = -2-15$


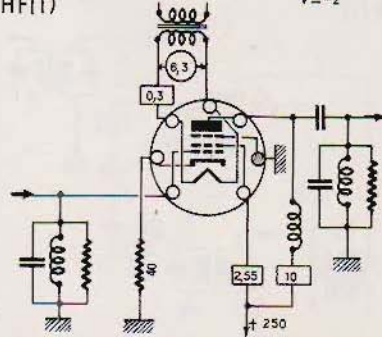
EF89F (N)

HF (V)

 $S = 4,4$
 $P = 1 \text{ M}\Omega$
 $V = -1-15$


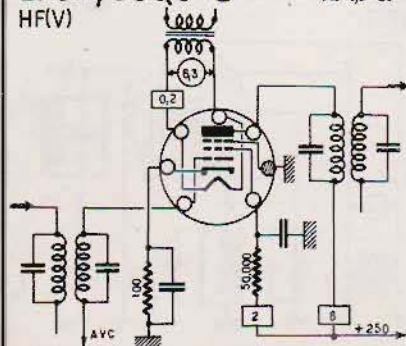
EF91/6AM6 (M)

HF(T)

 $S = 7,65$
 $P = 1 \text{ M}\Omega$
 $V = -2$


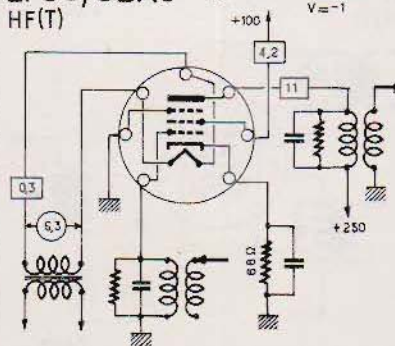
EF92/6CQ6 (M)

HF(V)

 $S = 2,5$
 $V = -0,6-20$


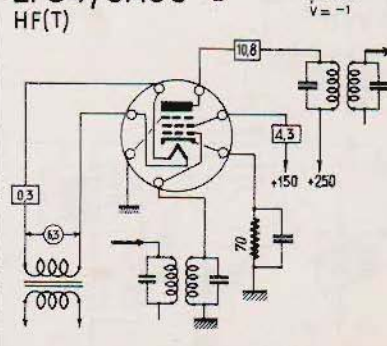
EF93/6BA6 (M)

HF(T)

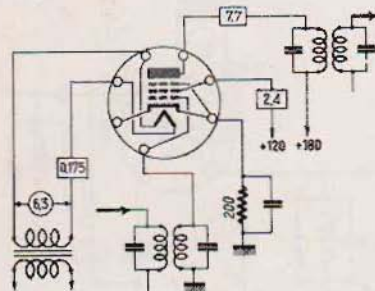
 $S = 4,4$
 $P = 1,5 \text{ M}\Omega$
 $V = -1$


EF94/6AU6 (M)

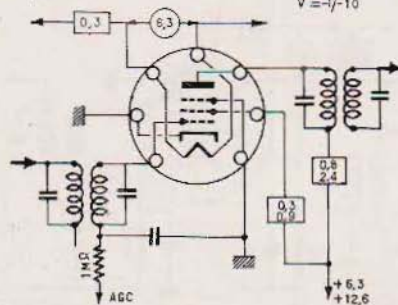
HF(T)

 $S = 5,2$
 $P = 1 \text{ M}\Omega$
 $V = -1$


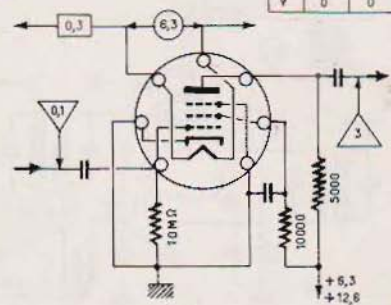
EF95/6AK5 (M)
 HF (T)

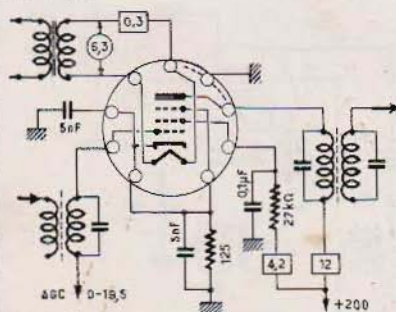
 $S = 5,1$
 $P = 0,69 \text{ M}\Omega$
 $V = -2$

EF97 (M)
 HF (V)

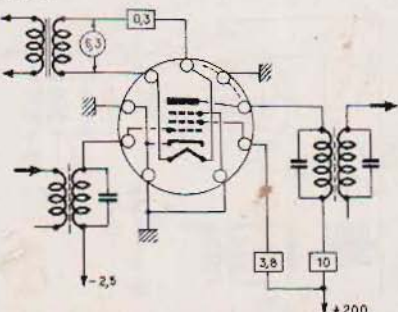
V_a	6,3	12,6
S	0,9	1,6
P	$50 \text{ k}\Omega$	$50 \text{ k}\Omega$
V	$-1/-10$	

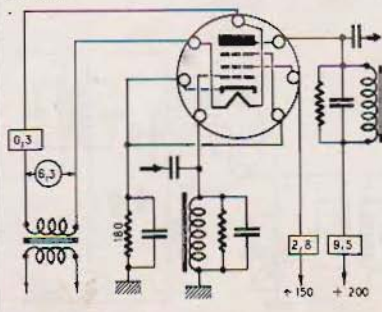

EF98 (M)
 BF

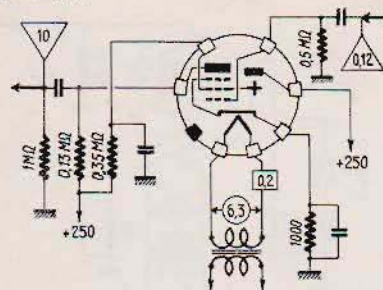
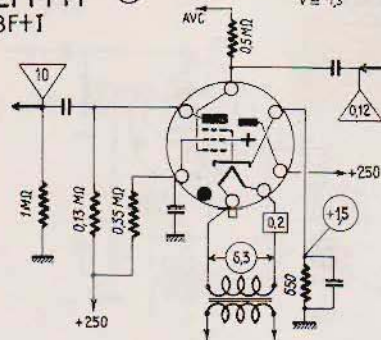
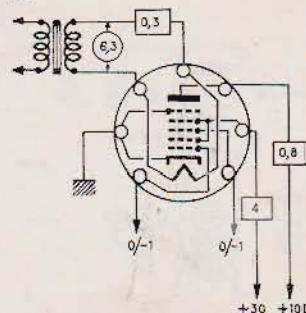
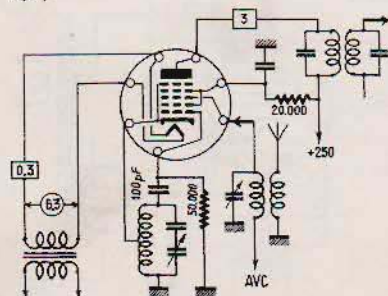
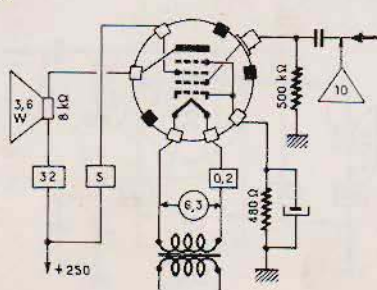
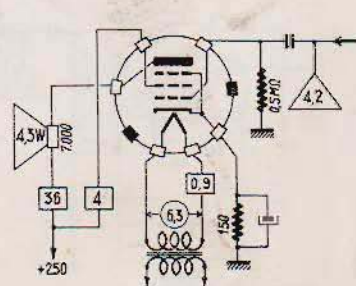
V_a	6,3	12,5
S	1,8	3
P	$50 \text{ k}\Omega$	$50 \text{ k}\Omega$
V	0	0


EF183 (N)
 HF V (T)

 $S = 12,5$
 $P = 0,5 \text{ M}\Omega$
 $V = -2-18,5$

EF184 (N)
 HF (T)

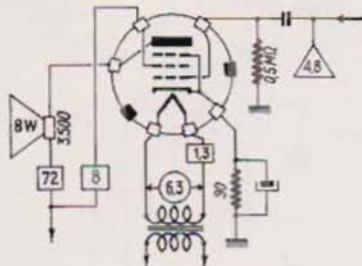
 $S = 15$
 $P = 0,35 \text{ M}\Omega$
 $V = -2,5$

EF190/6CB6 (M)
 HF (T)

 $S = 6,2$
 $P = 0,6 \text{ M}\Omega$
 $V = -8$


EFM1 ①
BF+I(V) $V = -2 \dots -20$ EFM11 ① (A8)
BF+I $\rho = 0,7 \text{ M}\Omega$
 $V = -1,5$ EH90/6CS6 ① (M)
HF
 $S_{g1} = 0,55$
 $\rho = 1 \text{ M}\Omega$
 $V_{g1} = -1$
 $V_{g2} = 0$
 $S_{g3} = 1,25$
 $\rho = 0,7 \text{ M}\Omega$
 $V_{g1} = 0$
 $V_{g3} = -1$
EK90/6BE6 ① (M)
C(V) $S_c = 0,455$
 $\rho = 1 \text{ M}\Omega$
 $V = -1,5$ EL2 ①
P $S = 2,8$
 $\rho = 70000$
 $V = -18$ EL3N ①
P $S = 3,5$
 $\rho = 50000$
 $V = -6$ 

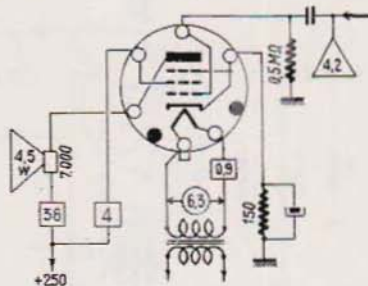
EL6/4699 ①

P

 $S = 14,5$
 $P = 20.000$
 $V = -7$


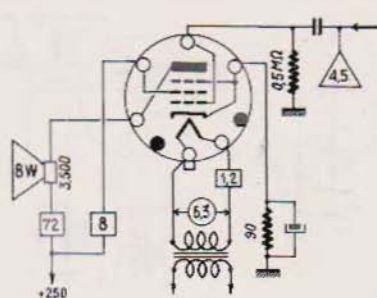
EL11 ②B

P

 $S = 5$
 $P = 50.000$
 $V = -6$


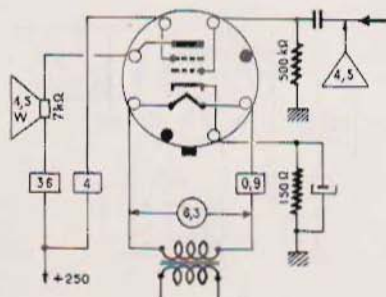
EL12 ②B

P

 $S = 15$
 $P = 25.000$
 $V = -7$


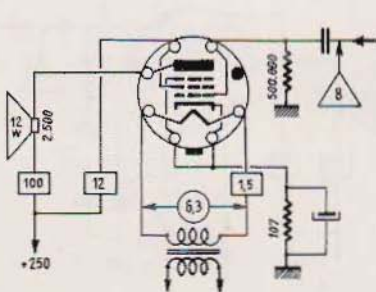
EL33/6V6 ①

P

 $S = 9$
 $P = 50.000$
 $V = -6$


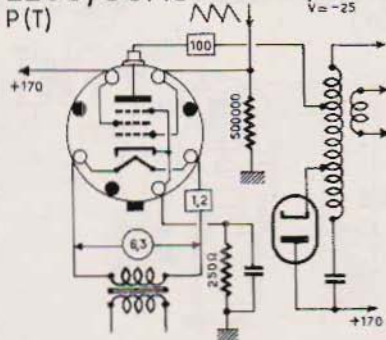
EL34/6CA7 ①

P

 $S = 11$
 $P = 15.000$
 $V = -12$


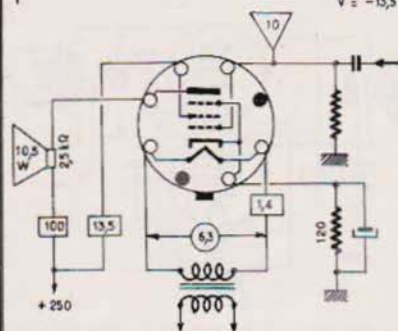
EL36/6CM5 ①

P(T)

 $S = 8$
 $P = 10.000$
 $V = -25$


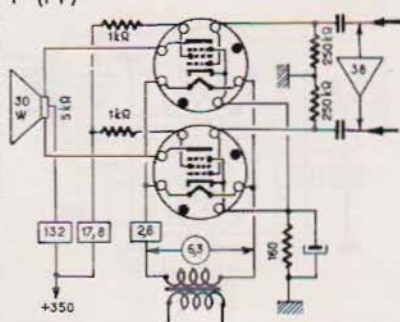
EL37 ①

P

 $s = 11$
 $p = 13,5 \text{ k}\Omega$
 $V = -13,5$


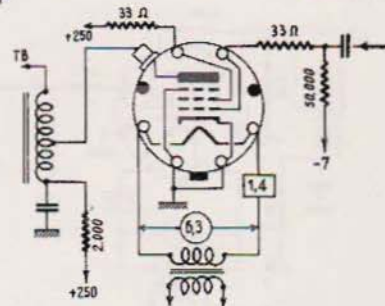
EL37 ①

P (PP)



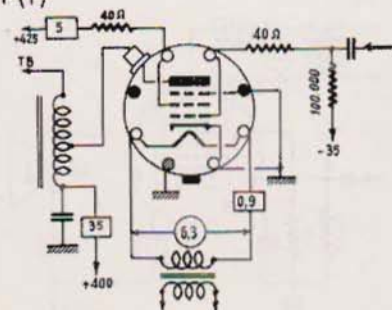
EL38/6CN6 ①

P

 $s = 14,3$
 $f = 21000$
 $V = -7$


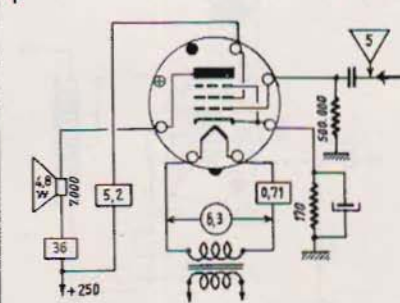
EL39 ①

P(T)

 $s = 6$ 

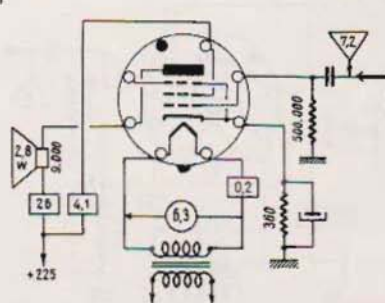
EL41/6CK5 ①

P

 $s = 10$
 $f = 40000$
 $V = -7$


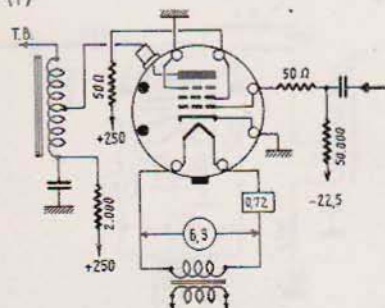
EL42 ①

P

 $s = 3,2$
 $f = 90000$
 $V = -10,8$


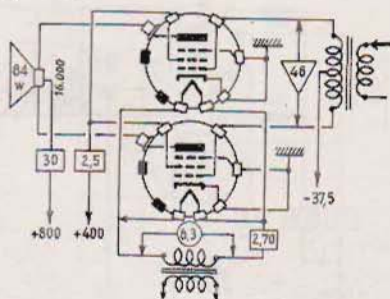
EL44 (R)

P(T)

 $S = 5$
 $\varphi = -22,5$


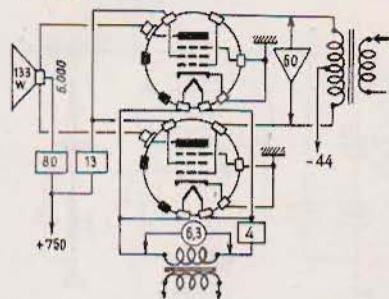
EL50 (T)

P(Cl.AB)

 $S = 4$
 $\varphi = 50,000$
 $V = -3,7$


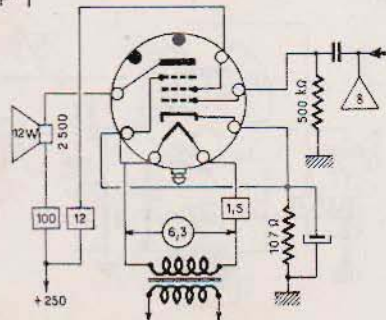
EL51 (T)

P(Cl.AB)

 $S = 7$
 $\varphi = 55,000$
 $V = -4,4$


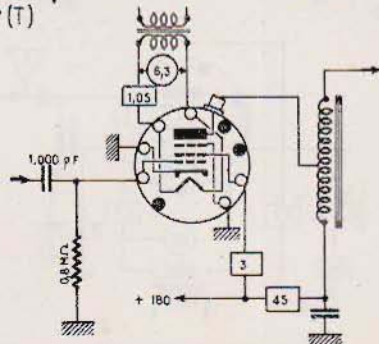
EL60 (EL34) (L)

P T

 $S = 11$
 $\varphi = 15,000$
 $V = -1,2$


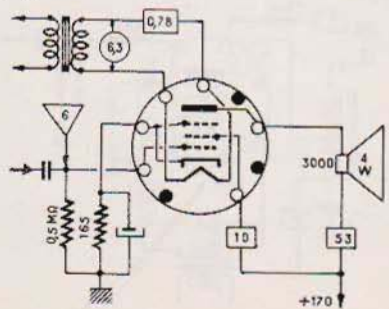
EL81/6CJ6 (N)

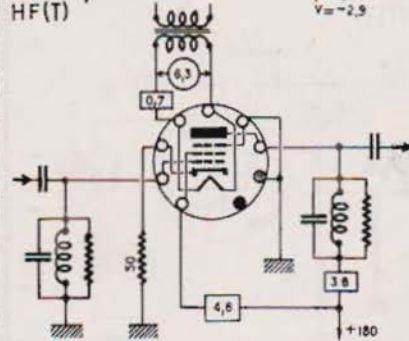
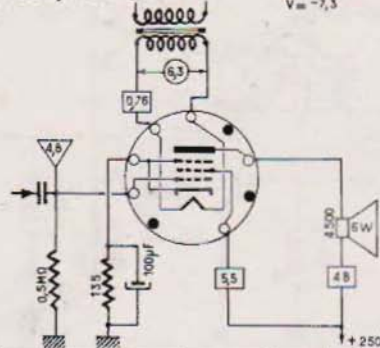
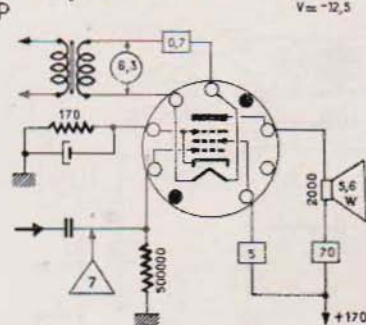
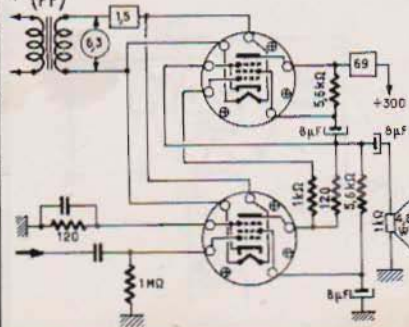
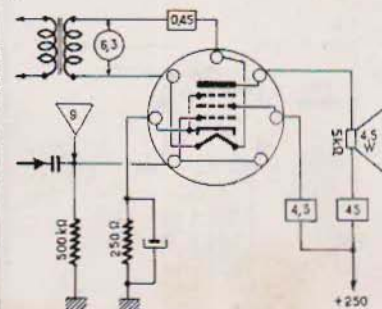
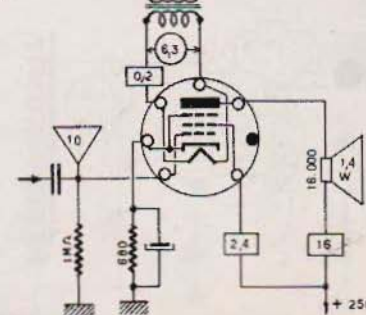
P(T)

 $S = 6,5$
 $V = -23,5$


EL82 (N)

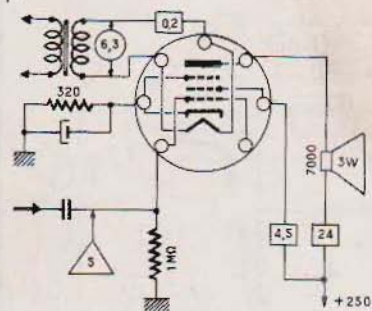
P(T)

 $S = 9,5$
 $\varphi = 20,000$
 $V = -10,4$


EL83/6CK6 (N)
HF(T)
 $S = 10$
 $P = 0,1 \text{ MW}$
 $V = -2,9$
EL84/6BQ5 (N)
P
 $S = 11,3$
 $P = 38000$
 $V = -7,3$
EL86/6CW5 (N)
P
 $S = 10$
 $P = 23000$
 $V = -12,5$
EL86 (N)
P(pp)EL90/6AQ5 (M)
P
 $S = 4,1$
 $P = 52000$
 $V = -12,5$
EL91/6AM5 (M)
P
 $S = 2,6$
 $P = 0,13 \text{ MW}$
 $V = -12,5$


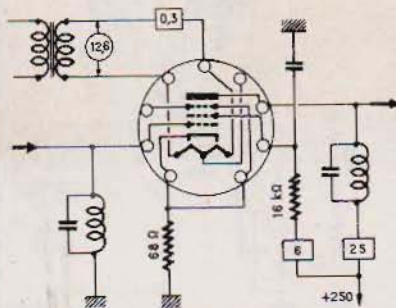
EL95/6DL5 (M)

P

 $S = 5$
 $P = 75.000$
 $V = -9$


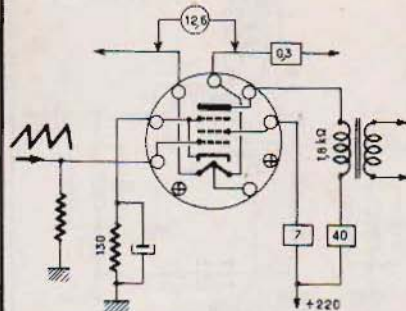
EL180/12BY7 (N)

HF VF(T)

 $S = 12$
 $P = 110 \text{ k}\Omega$
 $V = -0.5$


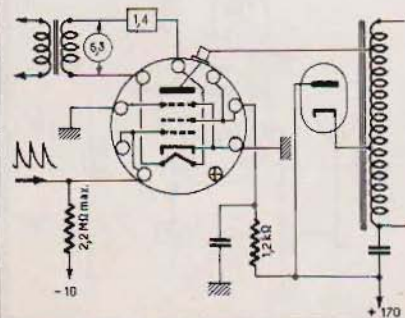
EL183 (N)

VF(T)

 $S = 25$
 $P = 20 \text{ k}\Omega$
 $V = -2.1$


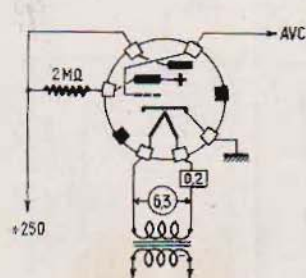
EL500 (M)

P(T)

 $V = -10$ 

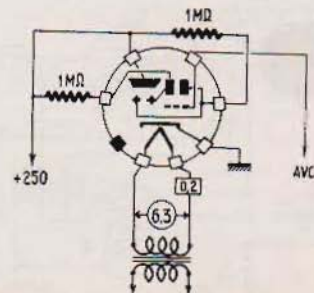
EM1/EM3 (T)

I

 $V = 0-5$ 

EM4 (T)

I

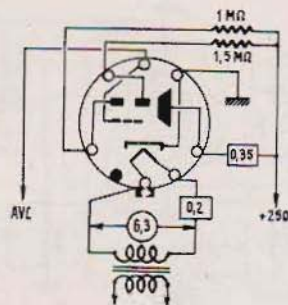
 $V = 0-16$ 

EM11

Ⓐ

V = 0-16
V_b = 0-5

I

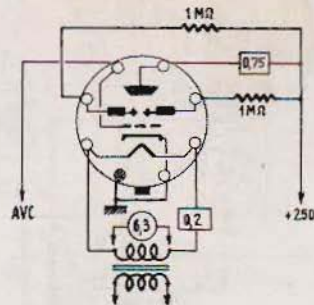


EM34/6CD7

⓪

V = 0-16
V_b = 0-5

I

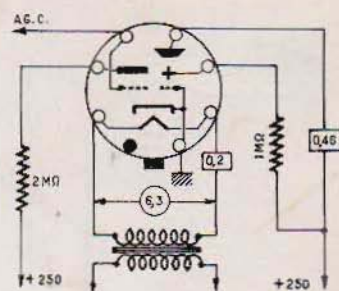


EM35

⓪

V = 0-20

I

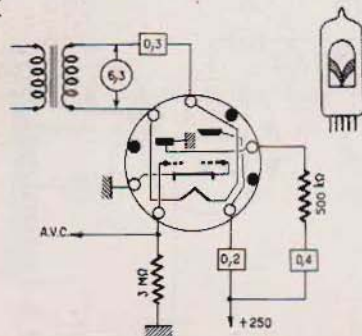


EM80/6BR5

Ⓝ

V = -1-16

I

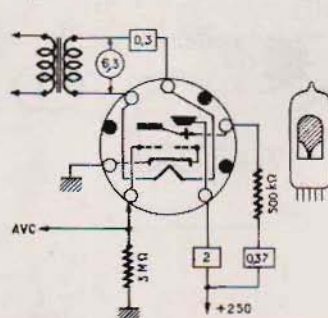


EM81/6DA5

Ⓝ

V = -1-10.5

I

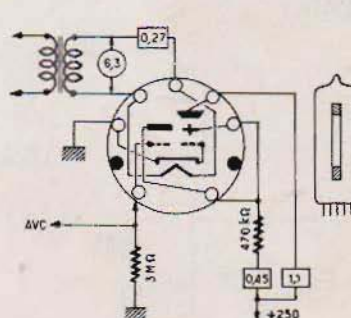


EM84

Ⓝ

V = 0-22

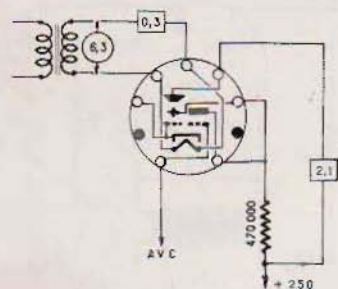
I



EM85/6DU6 (N)

V = 0 - 10

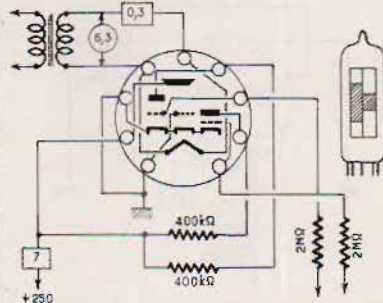
I



EMM801 (N)

V = 0 - 20

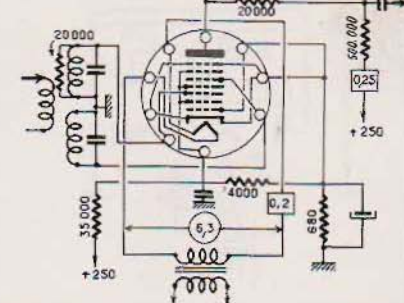
I (FM)



EQ80/6BE7 (N)

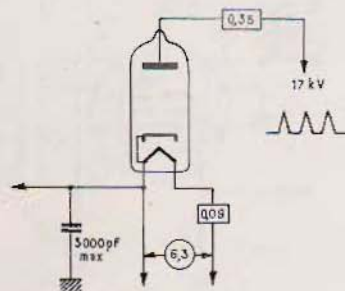
 $\rho = 3 \text{ M}\Omega$
 $V = -4.5$

D (FM)



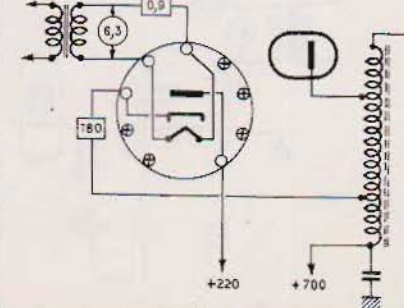
EY51/6X2 (S)

R(T)THT



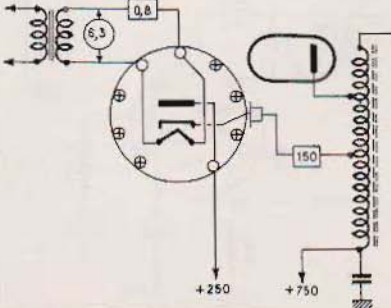
EY80 (N)

D (T)



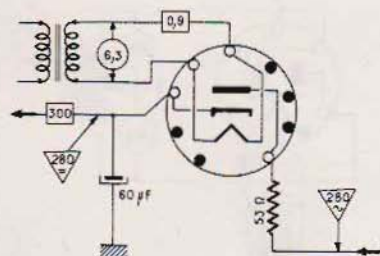
EY81 (N)

D (T)



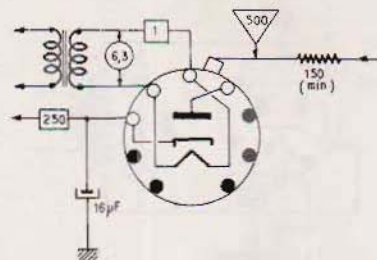
EY82/6N3 (N)

R



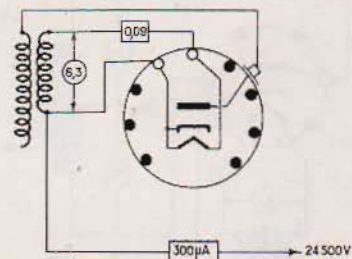
EY84 (N)

R



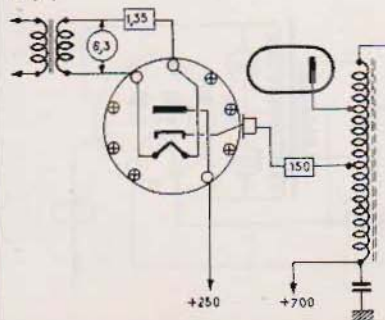
EY86/6S2 (EY87)

R (T) (N)

V_{inv} = 27.500

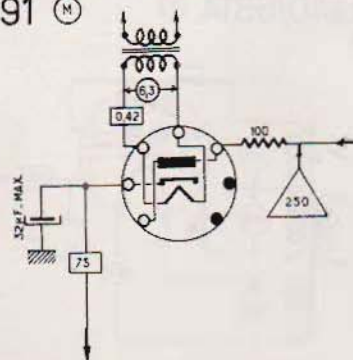
EY88 (N)

D (T)



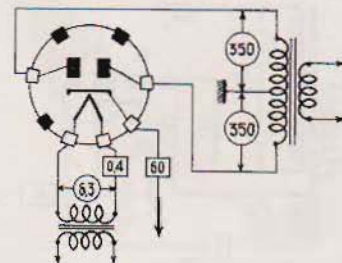
EY91 (N)

R



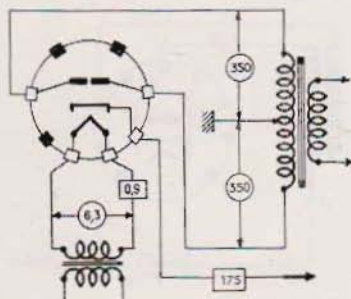
EZ2 (T)

R



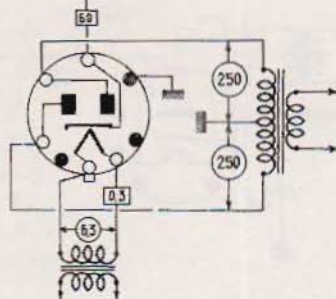
EZ4 ①

R



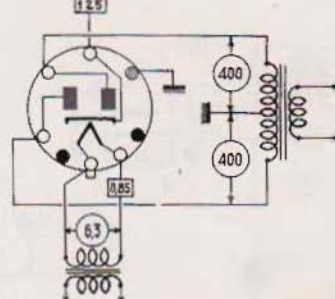
EZ11 ⑧

R



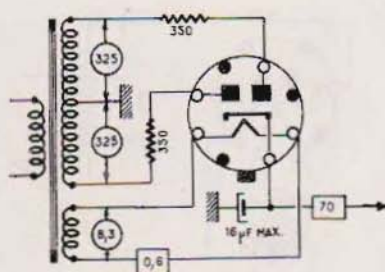
EZ12 ⑧

R



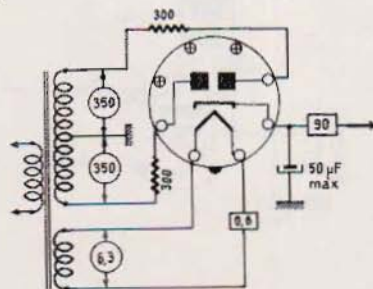
EZ35 ①

R



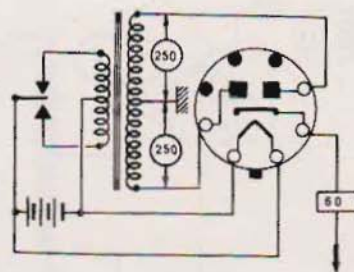
EZ40/6BT4 ⑧

R



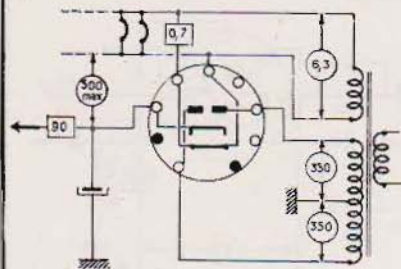
EZ41 ⑧

R



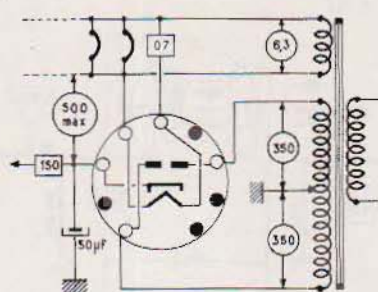
EZ80/6V4 (N)

R



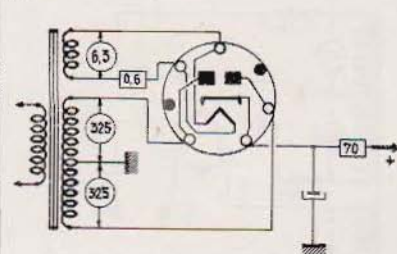
EZ81/6CA4 (N)

R



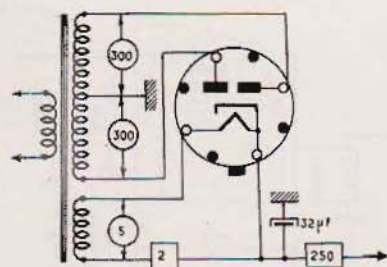
EZ90/6X4 (M)

R



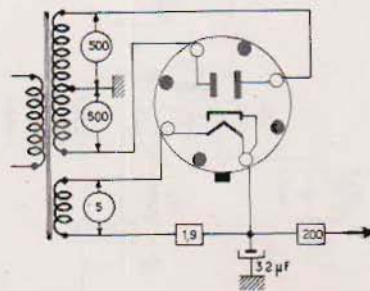
GZ32/5V4 (O)

R



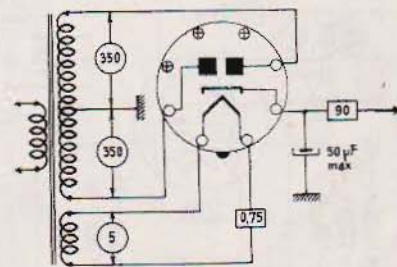
GZ34/5AR4 (O)

R



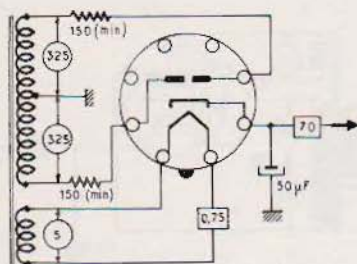
GZ40 (R)

R



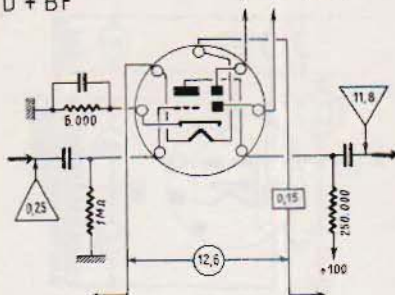
GZ41 (R)

R



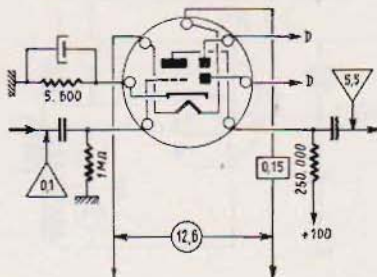
HBC90/12AT6 (M)

D + BF

 $S = 1,2$
 $P = 58.000$
 $V = -3$


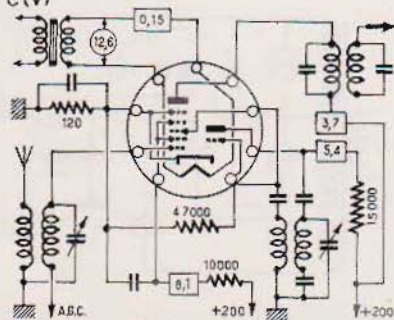
HBC91/12AV6 (M)

D + BF

 $S = 1,6$
 $P = 62.500$
 $V = -2$


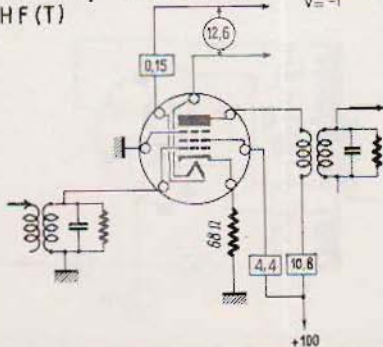
HCH81/12D8 (N)

C(V)

 $S = 0,77$
 $P = 1.000$
 $V = -2,3-28$


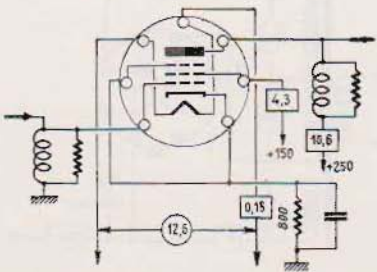
HF93/12BA6 (M)

HF (T)

 $S = 4,3$
 $P = 0,25 \text{ M}\Omega$
 $V = -1$


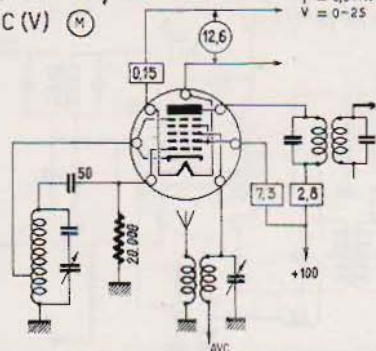
HF94/12AU6

HF (T) (M)

 $S = 5,2$
 $P = 1 \text{ M}\Omega$
 $V = -1$


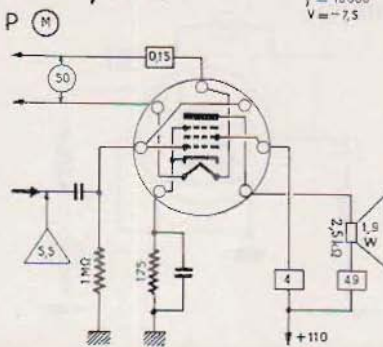
HK90 / 12BE6

C (V) (M)

 $S_c = 0,45$
 $\rho = 0,5 \text{ M}\Omega$
 $V = 0-25$


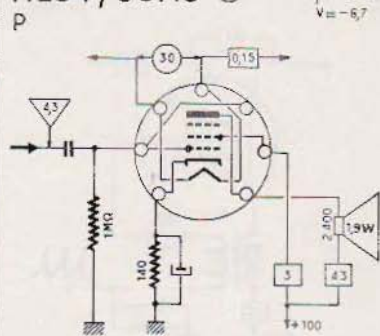
HL92 / 50C5

P (M)

 $S = 7,5$
 $\rho = 10000$
 $V = -7,5$


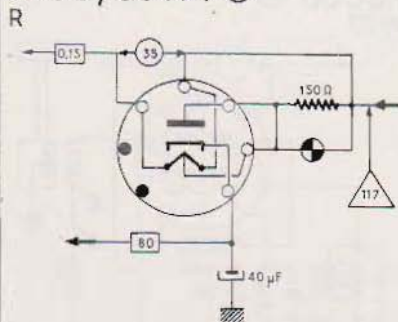
HL94 / 30A5 (M)

P

 $S = 3,2$
 $\rho = 2,2 \text{ k}\Omega$
 $V = -6,7$


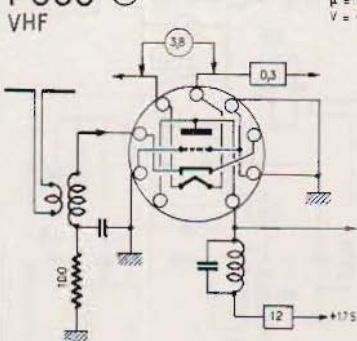
HY90 / 35W4 (M)

R



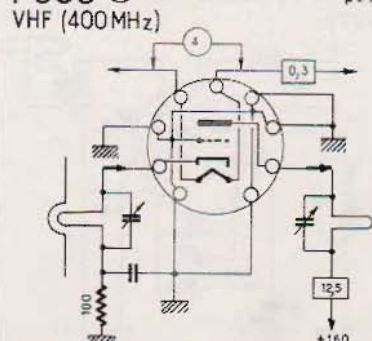
PC86 (N)

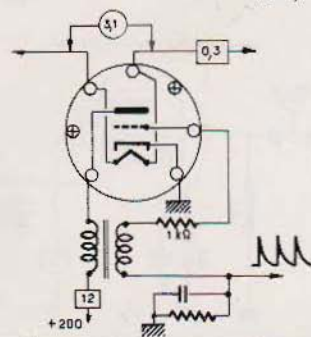
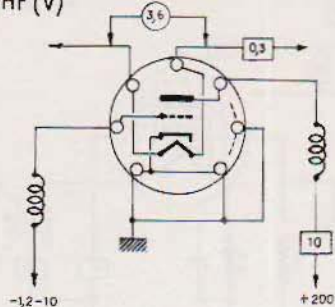
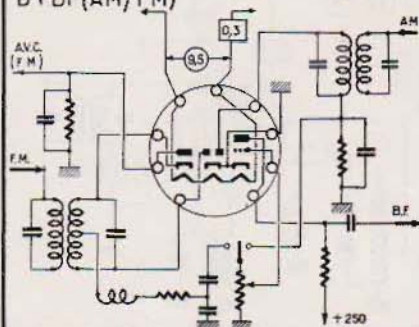
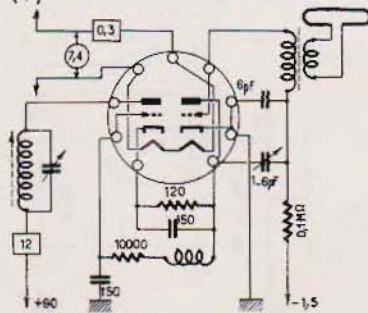
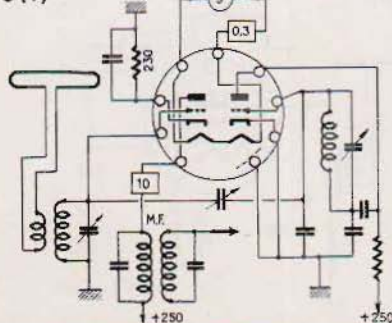
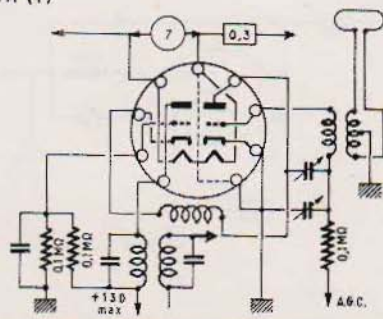
VHF

 $S = 14$
 $\mu = 68$
 $V = -1,5$


PC88 (N)

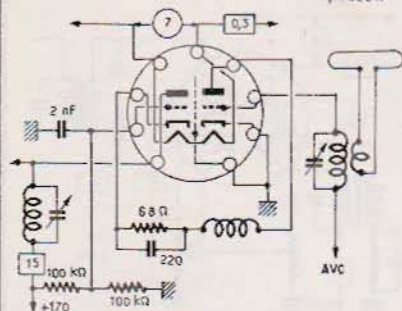
VHF (400MHz)

 $S = 13,5$
 $\mu = 65$


PC92 (M)
O (T)
 $S = 7,2$
 $\mu = 67$
 $V = -0,9$
PC95 (M)
VHF (V)
 $S = 10,5$
 $\mu = 80$
PABC80/9AK8 (N)
D+BF (AM/FM)
 $S = 1,2$
 $\mu = 58000$
 $V_{max} = -3$
PCC84/7AN7 (N)
HF (T)
 $S = 6$
 $\mu = 10000$
 $V = -1,5$
PCC85/9AQ8 (N)
C (T)
 $S = 6$
 $\mu = 9500$
 $V_{max} = -2,3$
PCC88 (N)
HF (T)
 $S = 12,5$


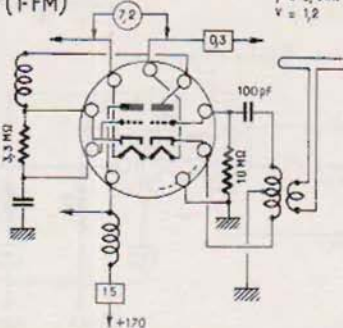
PCC89 (N)
HF(V) (T)

$S = 12,5$
 $\mu = 2,8 \text{ k}\Omega$
 $V = 1,2 - 12$
 $R_{eq} = 500 \Omega$

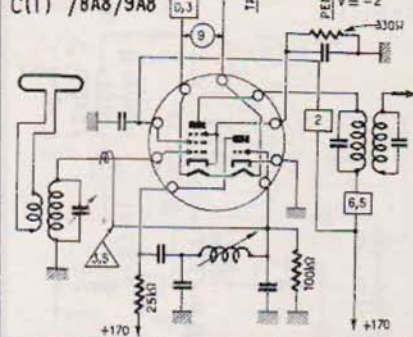


PCC189 (N)
VHF (T-FM)

$S = 12,5$
 $\mu = 3,4$
 $P = 2,6 \text{ k}\Omega$
 $V = 1,2$

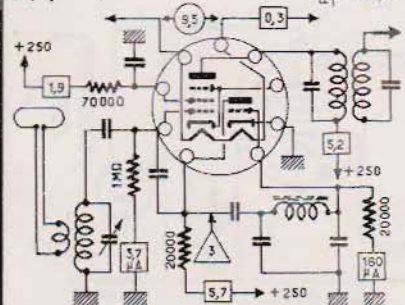


PCF80 (N)
C(T) / 8A8/9A8



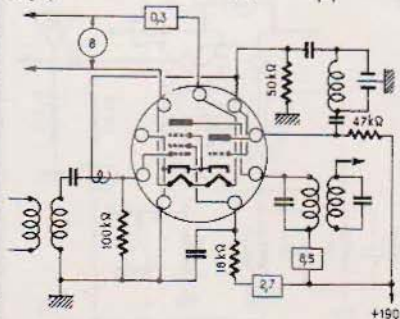
PCF82/9U8 (N)
C(T)

TRIODE $S = 6,5$
 $\mu = 5,5 \text{ k}\Omega$
 $V = -1$
PENTHODE $S = 5,2$
 $\mu = 1,3$
 $P = 0,4 \text{ M}\Omega$
 $V = -0,9 - 10$



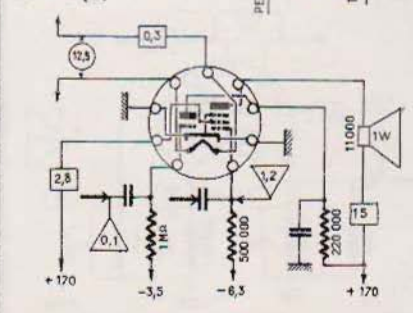
PCF86 (N)
C(T)

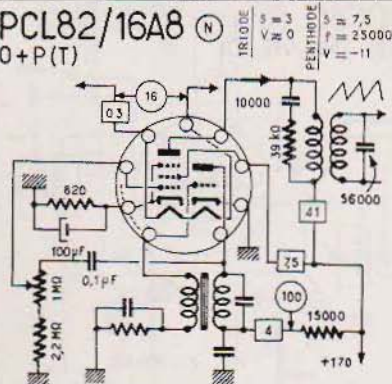
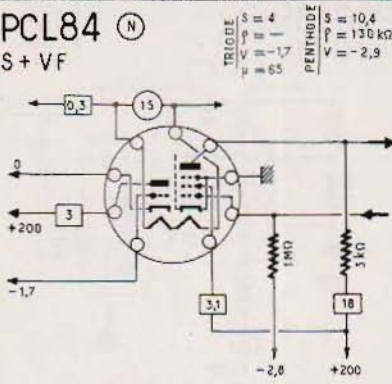
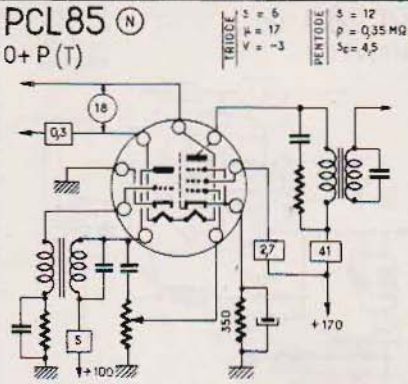
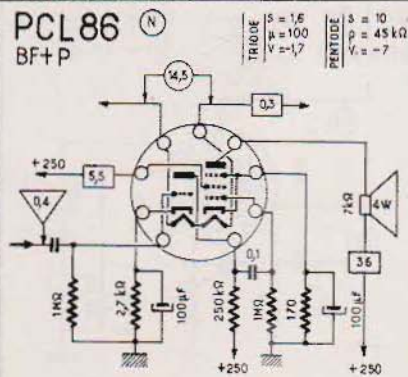
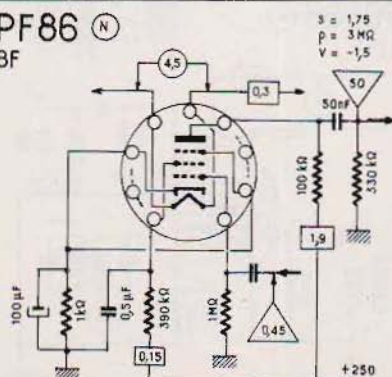
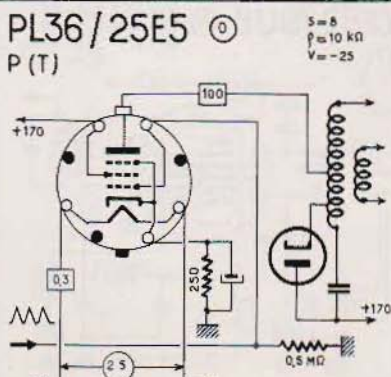
TRIODE $S = 6$
 $\mu = 17$
 $V = -3$
PENTHODE $S = 12$
 $\mu = 0,35 \text{ M}\Omega$
 $S_{ca} = 4,5$



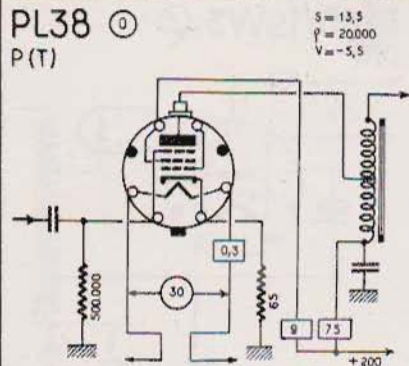
PCL81 (N)
BF + P(T)

PENTHODE $S = 3,3$
 $\mu = 0,15 \text{ M}\Omega$
 $V = -6,3$
TRIODE $S = 1,9$

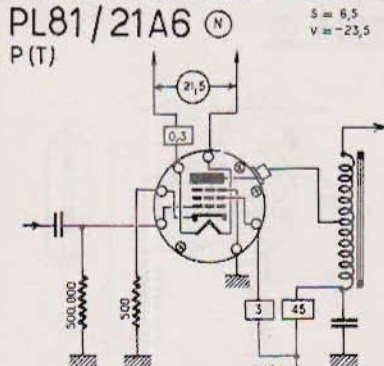


PCL82/16A8 (N)
O+P(T)PCL84 (N)
S+VFPCL85 (N)
O+P(T)PCL86 (N)
BF+PPF86 (N)
BFPL36/25E5 (O)
P(T)

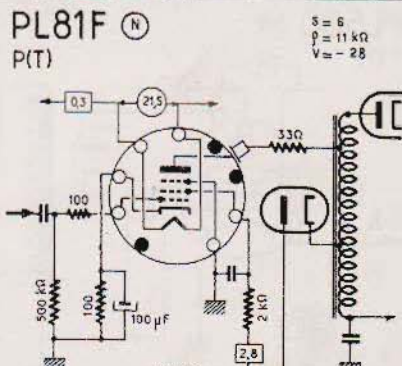
PL38 (N)
P(T)



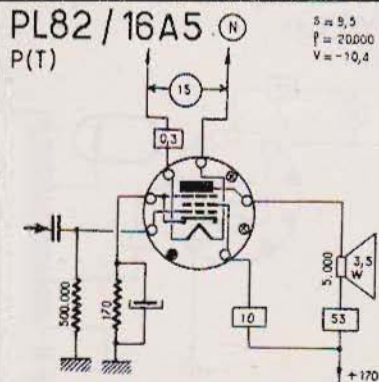
PL81/21A6 (N)
P(T)



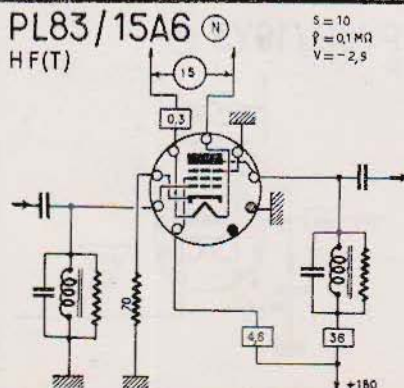
PL81F (N)
P(T)



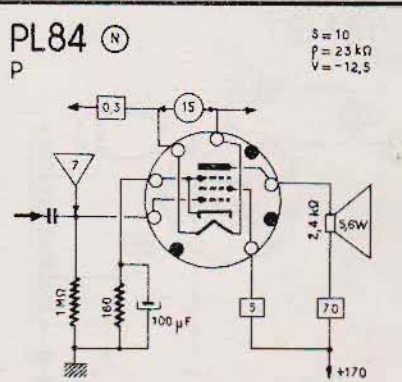
PL82/16A5 (N)
P(T)

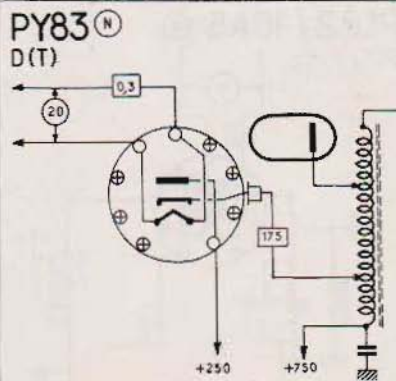
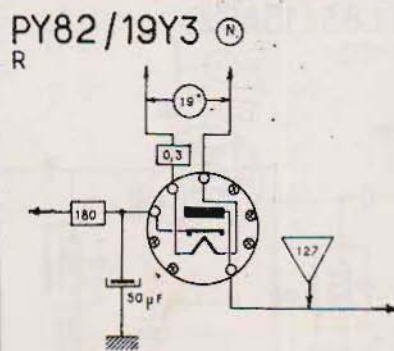
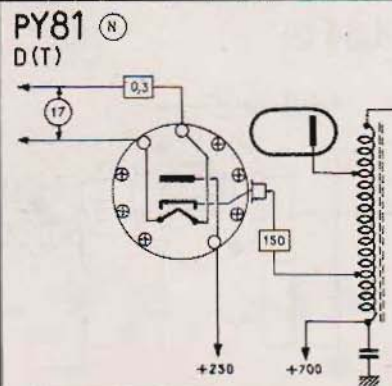
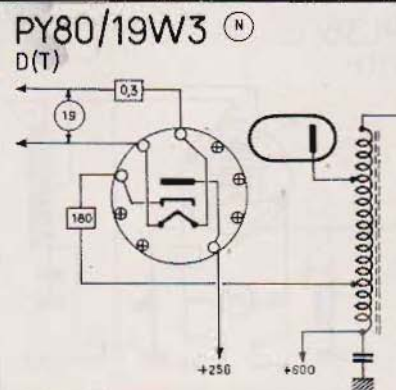
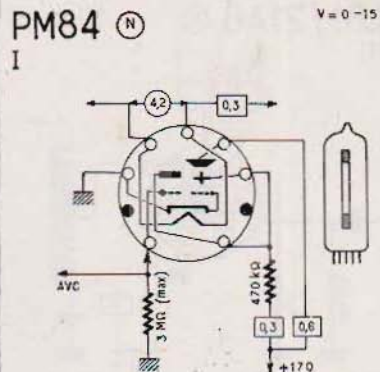
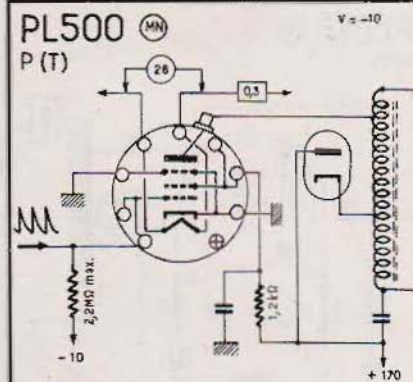


PL83/15A6 (N)
H F(T)

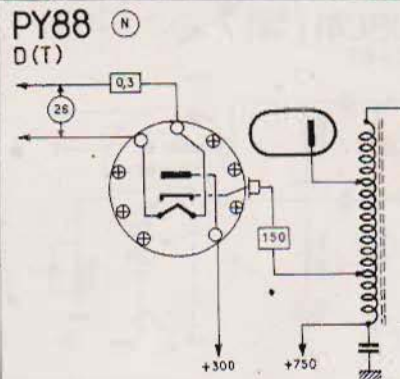


PL84 (N)
P

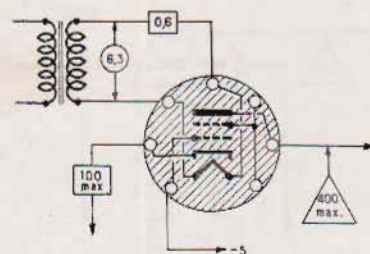




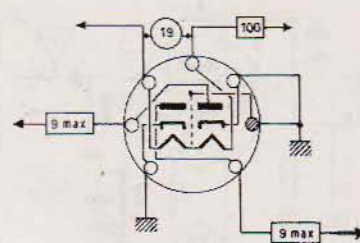
PY88
D(T)



RL21/2D21 (M)
THYR.

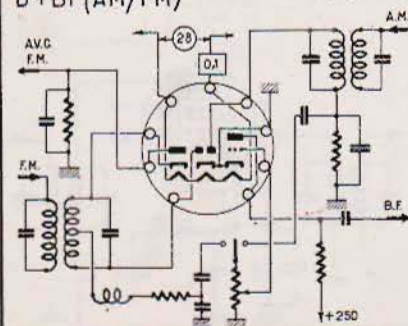


UAA91 (M)
D



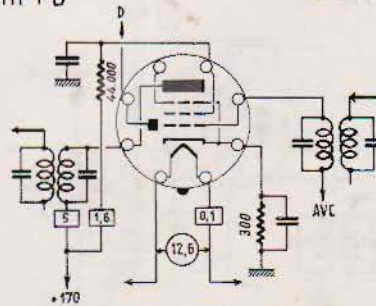
UABC80 (N)
D+BF(AM/FM)

$S = 1,2$
 $f = 56000$
 $V = -3$



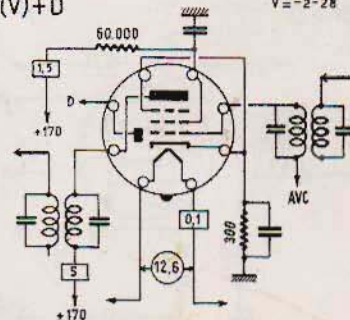
UAF41 (R)
HF+D

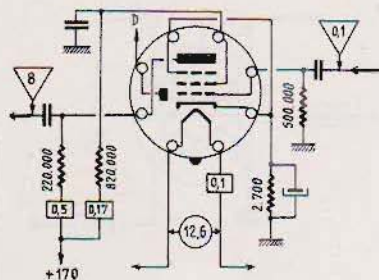
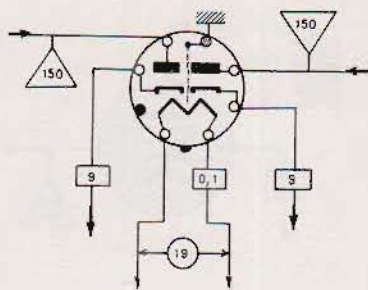
$S = 1,6$
 $f = 1,2 \text{ MHz}$
 $V = -2-22$

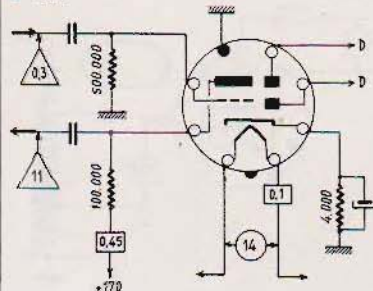


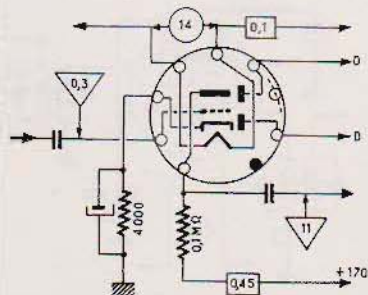
UAF42 (R)
HF(V)+D

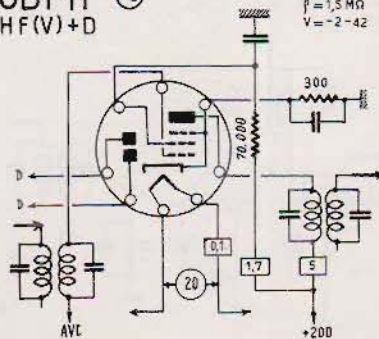
$S = 2$
 $f = 0,9 \text{ MHz}$
 $V = -2-28$

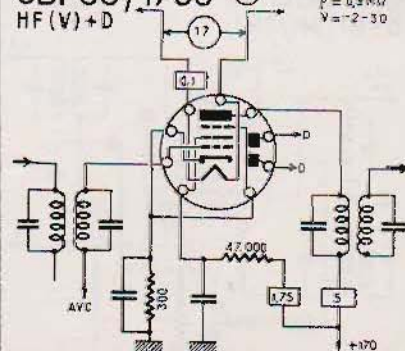


UAF42/12S7 (R)
D+BF

UB41 (R)
D

UBC41/14L7 (R)
D+BF

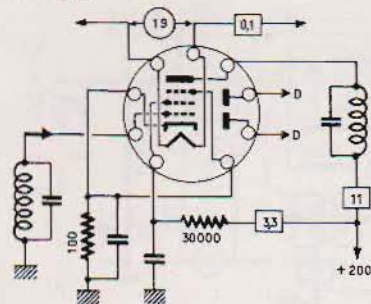
 $S = 1,65$
 $p = 42000$
 $V = 1,5$

UBC81 (N)
BF+D

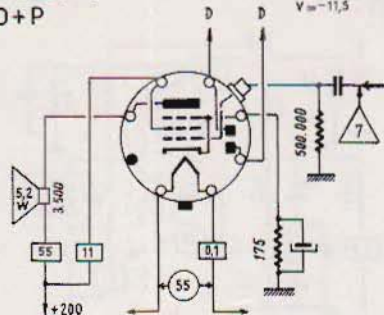
 $S = 1,65$
 $p = 42000$
 $V = 1,5$

UBF11 (AB)
HF(V)+D

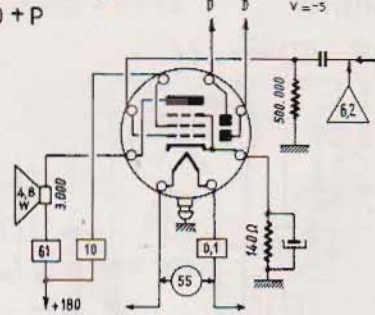
 $S = 1,6$
 $p = 1,5 \text{ M}\Omega$
 $V = -2-42$

UBF80/17C8 (N)
HF(V)+D

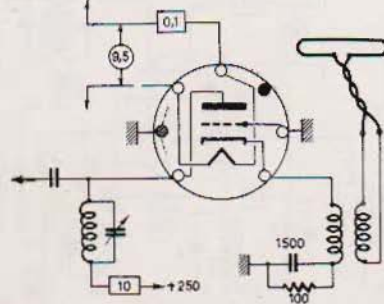
 $S = 2,2$
 $p = 0,8 \text{ M}\Omega$
 $V = -2-30$


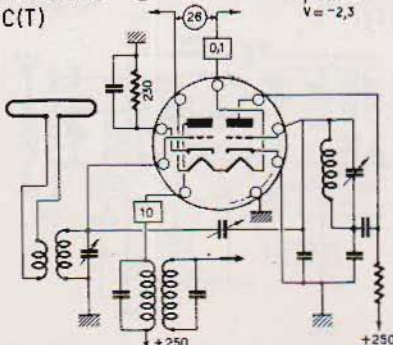
UBF89 (N)
HF + D(T)

 $S = 4,5$
 $P = 0,6 \text{ mW}$
 $V = -1,5$

UBL1 (D)
D + P

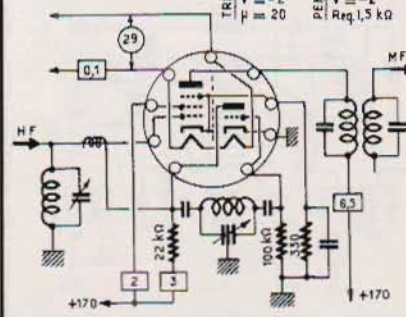
 $S = 8,5$
 $P = 20,000$
 $V = -11,5$

UBL21 (L)
D + P

 $S = 8$
 $P = 22,000$
 $V = -5$

UC92 (N)
HF (VHF)

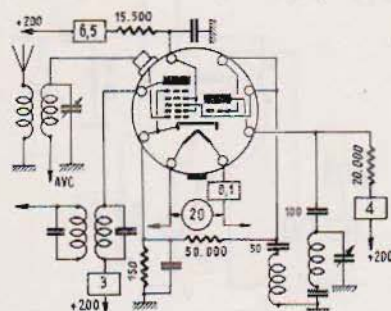
 $S = 5$
 $P = 12,000$
 $V = -2$

UCC85 (N)
C(T)

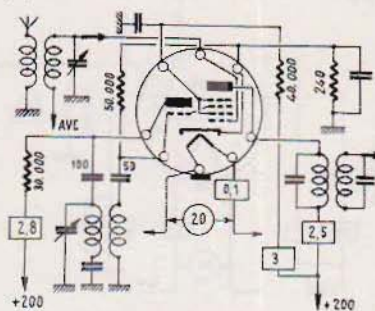
 $S = 6$
 $P = 3,500$
 $V = -2,3$

UCF80 (N)
C

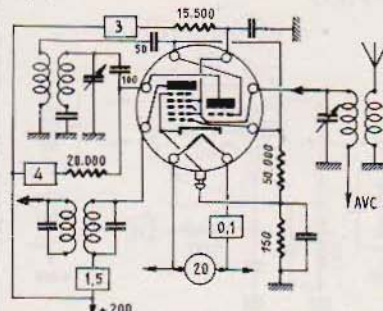
TRIODE	$S_c = 1$	$S_c = 2,2$
	$S = 5$	$S = 6,2$
	$S = 1$	$S = 0,4 \text{ mW}$
	$V = -2$	$V = -2$
	$R_{eq} = 20$	$R_{eq} = 1,5 \text{ k}\Omega$

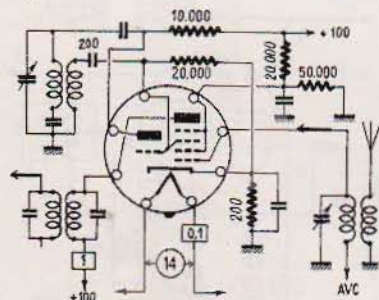


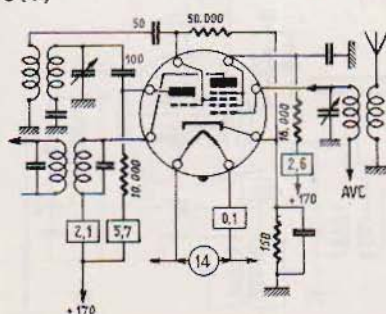
UCH4 ①
 HF(V)+BF

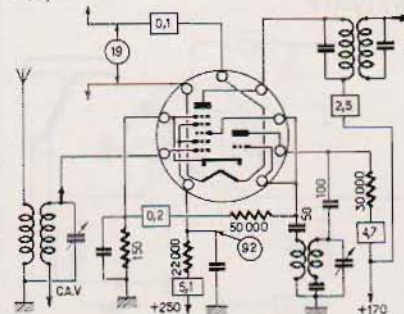
 HEADCODE
 $\mu = 2,2$
 $\rho = 0,7 \text{ M}\Omega$
 $V = -2,1-2,7$
 TRIODE
 $\mu = 3,2$
 $\rho = 8000$
 $V = -2$

UCH11 ①
 C(V)

 $S_c = 0,75$
 $\rho = 1 \text{ M}\Omega$
 $V = -2-18$

UCH21 ①
 C(V)

 $S_c = 0,58$
 $\rho = 1 \text{ M}\Omega$
 $V = -2-28$

UCH41 ①
 C(V)

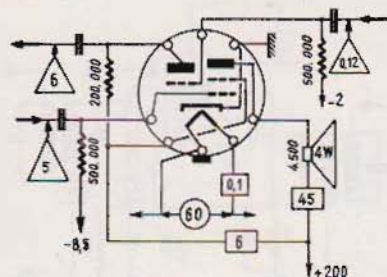
 $S_c = 0,5$
 $\rho = 1 \text{ M}\Omega$
 $V = -1-14$

UCH42 / 14K7 ①
 C(V)

 $S_c = 0,67$
 $\rho = 1 \text{ M}\Omega$
 $V = -1,8-25$

UCH81 / 19D8 ①
 C(V)

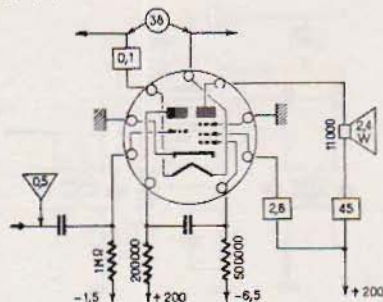
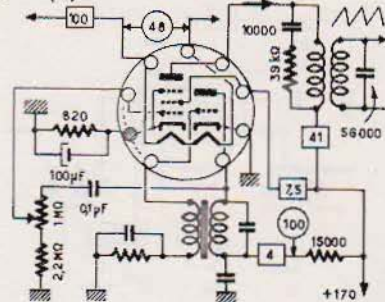
 $S_c = 0,7$
 $\rho > 1 \text{ M}\Omega$
 $V = -2-24$


UCL11 (AB)
BF + P

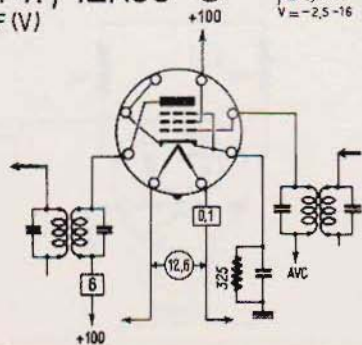
$$P \begin{cases} S = 9 \\ p = 18000 \\ V = -8,5 \end{cases} \quad BF \begin{cases} S = 2,7 \\ p = 30000 \\ V = -2 \end{cases}$$


UCL81 (N)
BF + P

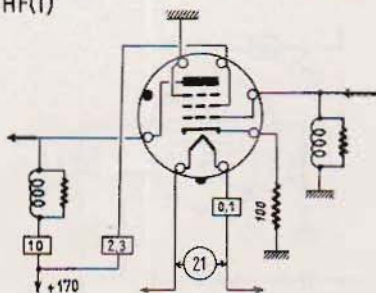
$$S = 8,7 \\ p = 18.000 \\ V = -6,5$$


UCL82 (N)
O + P(T)

UF41 / 12AC5 (R)
HF (V)

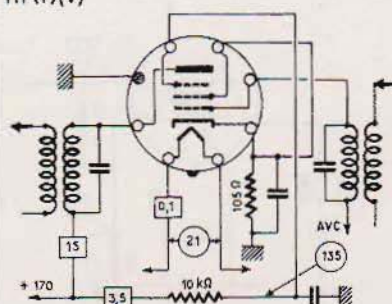
$$S = 1,9 \\ p = 0,6 \text{ M}\Omega \\ V = -2,5 - 16$$


UF42 (R)
HF (T)

$$S = 8,5 \\ p = 0,3 \text{ M}\Omega$$

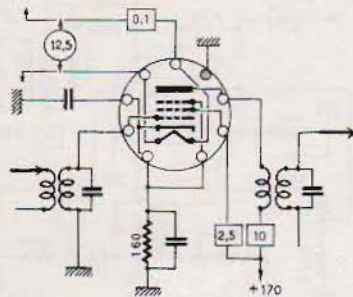

UF43 (R)
HF (T)(V)

$$S = 6,3 \\ p = 0,3 \text{ M}\Omega \\ V = -0,2 - 19$$



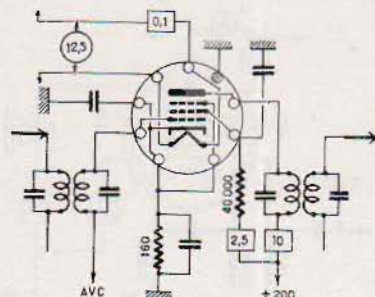
UF80 (N)

HF(T)

 $S = 7,4$
 $P = 0,4 \text{ M}\Omega$
 $V = -2$


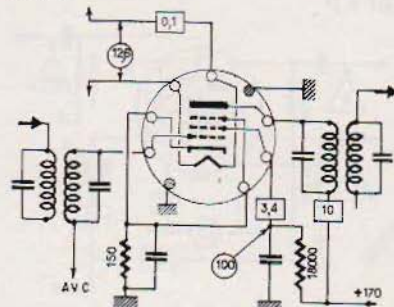
UF85 (N)

HF(V)

 $S = 6,1$
 $P = 0,4 \text{ M}\Omega$
 $V = -2-35$


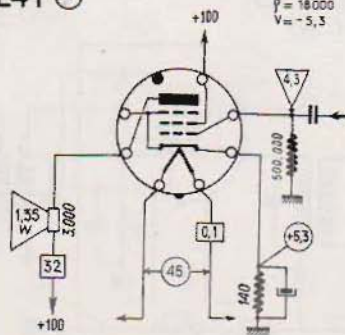
UF89 (UF41) (N)

HF(V)

 $S = 3,6$
 $P = 0,5 \text{ M}\Omega$
 $V = -3-10$


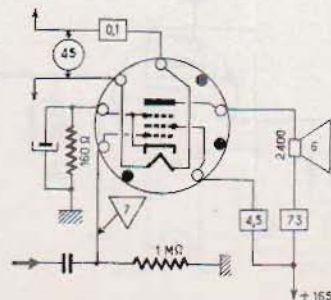
UL41 (R)

P

 $S = 8,5$
 $P = 18 \text{ k}\Omega$
 $V = -5,5$


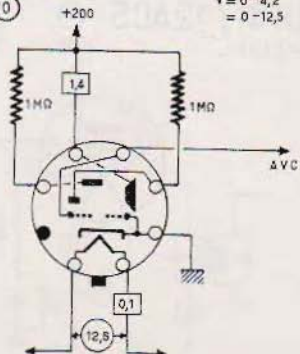
UL84/45B5 (R)

P

 $S = 10,5$
 $P = 20 \text{ k}\Omega$
 $V = -12$


UM4 (O)

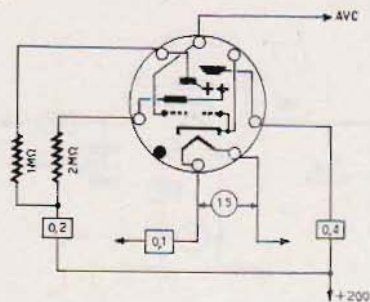
T

 $V = 0-4,2$
 $= 0-12,5$


UM11 (AB)

 $V = 0-20$

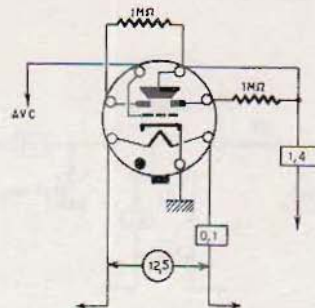
I



UM34 (O)

 $V = 0-42$
 $= 0-12,5$

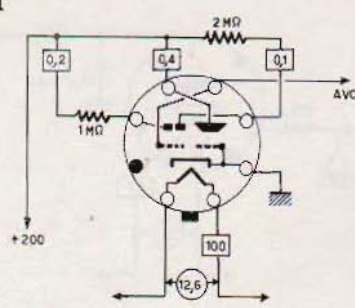
I



UM35 (O)

 $V = 0-3$
 $0-20$

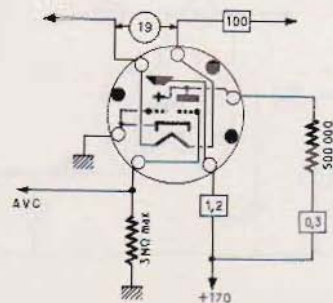
I



UM80 = UM81 (N)

 $V = -1-12$

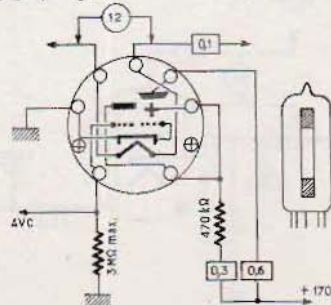
I



UM84 (N)

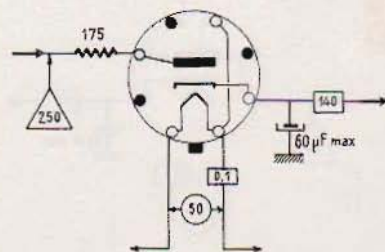
 $V = 0-15$

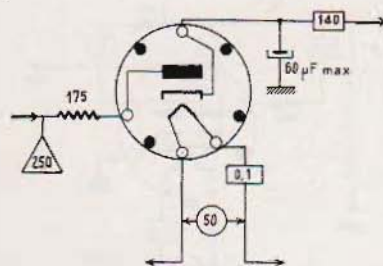
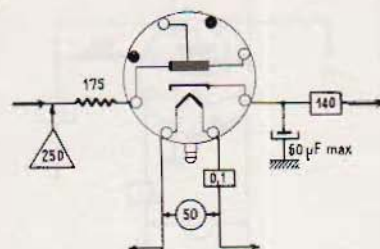
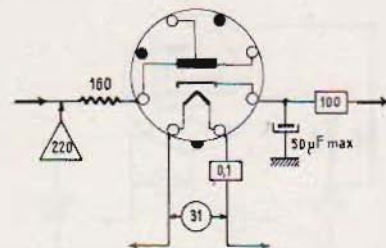
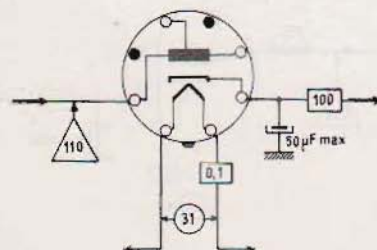
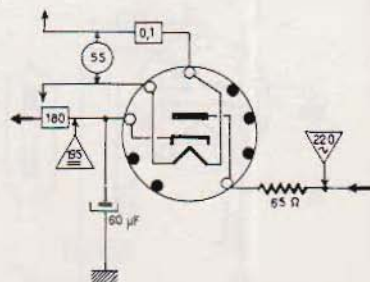
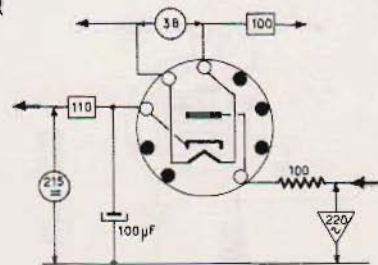
I



UY1N (O)

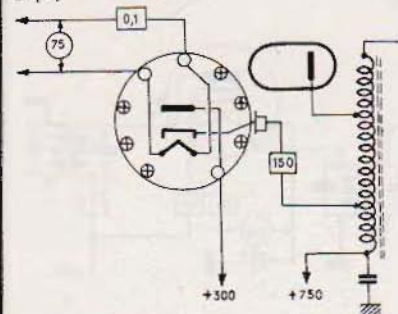
R



UY11 (ΔS)
RUY21 (L)
RUY41/31A3 (R)
RUY42 (R)
RUY82 (M)
RUY85/38A3 (N)
R

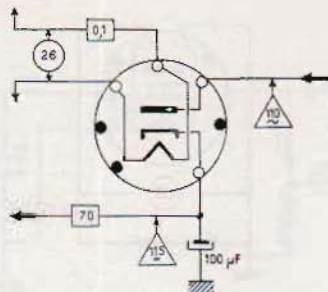
UY88 (N)

D (T)



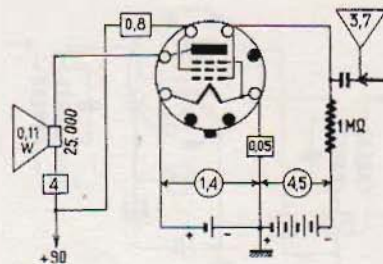
UY92 (M)

R



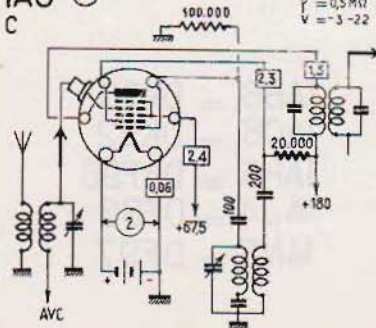
1A5 (O)

P

 $S = 0.65$
 $P = 0.3 \text{ M}\Omega$
 $V = -4.5$


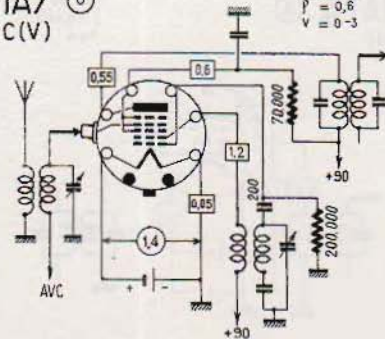
1A6 (US)

C

 $S_c = 0.25$
 $P = 0.5 \text{ M}\Omega$
 $V = -3 \sim -22$


1A7 (O)

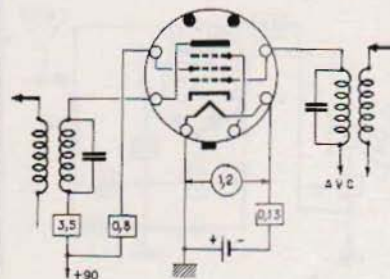
C (V)

 $S_c = 0.25$
 $P = 0.6$
 $V = 0 \sim 3$


V41 = AZ41
 V51 = GZ40
 V61 = EZ40
 V311 = UY41
 V312 = UY42
 1A3 = DA90

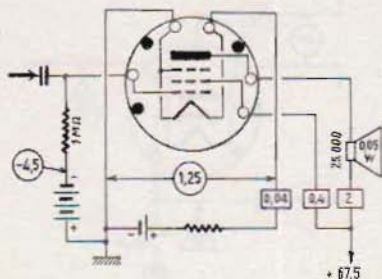
1AB5 (D)
HF(V)

$S = 11$
 $P = 275 \text{ k}\Omega$
 $V = -1,3-12$



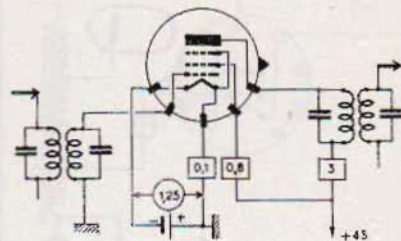
1AC5 (SM)
P

$S = 0,75$
 $P = 0,15 \text{ M}\Omega$
 $V = -4,5$



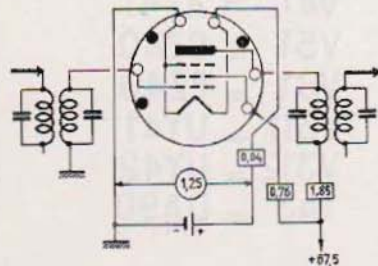
1AD4 (S)
HF

$S = 2$
 $P = 0,15 \text{ M}\Omega$
 $V = 0$



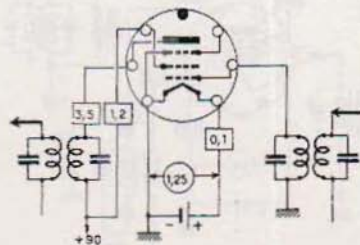
1AD5 / 1W5 (SM)
HF

$S = 0,735$
 $P = 0,7 \text{ M}\Omega$
 $V = 0$



1AE4 (M)
HF

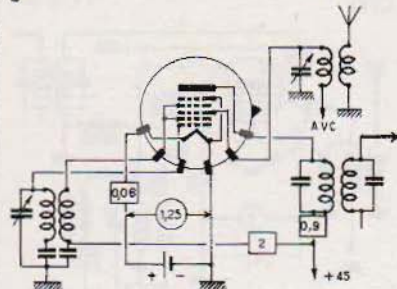
$S = 1,55$
 $P = 0,5 \text{ M}\Omega$
 $V = 0$



1AB6 = DK96
1AC6 = DK92
1AH5 = DA F96
1AJ4 = DF96
1AN5 = DF97

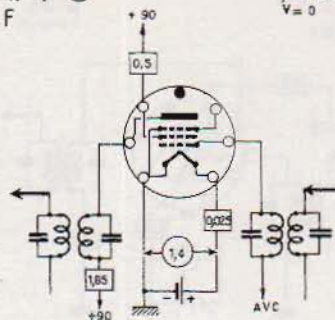
1AE5 (S)

C

 $S = 0,2$
 $P = 0,2 \text{ M}\Omega$
 $V = 0$


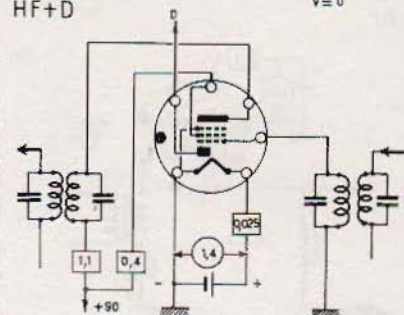
1AF4 (M)

HF

 $S = 0,95$
 $P = 1,8 \text{ M}\Omega$
 $V = 0$


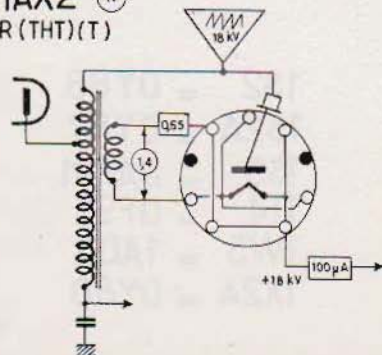
1AF5 (M)

HF+D

 $S = 0,6$
 $P = 2 \text{ M}\Omega$
 $V = 0$


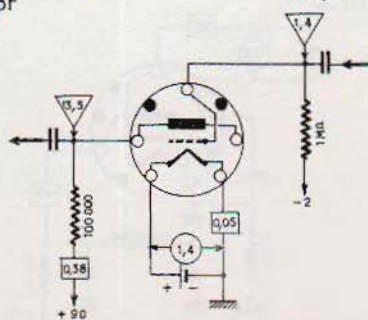
1AX2 (N)

R (THT)(T)



1C3 (M)

BF

 $S = 0,76$
 $P = 19,000$
 $V = -3$


1AU4 = DF96

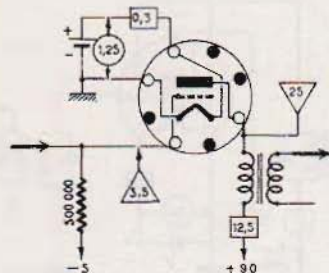
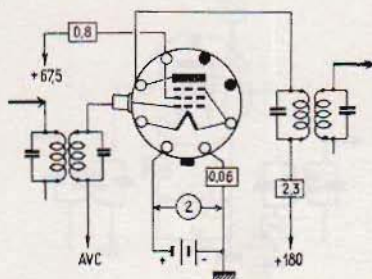
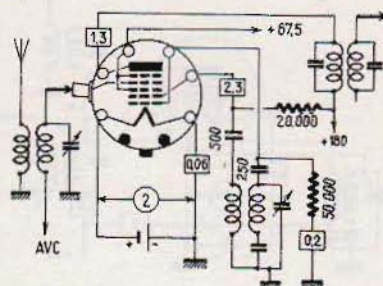
1C8 = 1E8

1L4 = DF92

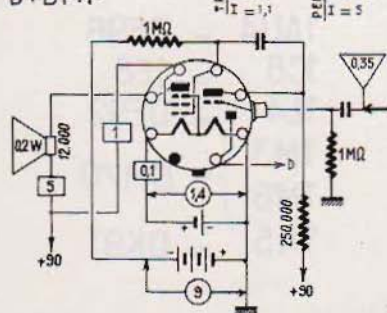
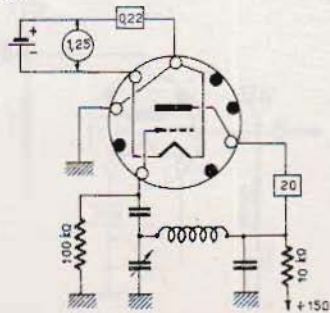
1M3 } = DM70

1M6 }

1R5 = DK91

1D3 (SM)
BF
 $S = 3,4$
 $f = 2.560$
 $V = -5$
1D5 (O)
HF (V)
 $S = 0,75$
 $f = 1M\Omega$
 $V = -3-15$
1D7 (O)
C(V)
 $S_c = 0,3$
 $f = 0,5 M\Omega$
 $V = -3-22,5$
1D8 (O)
D+BF+P

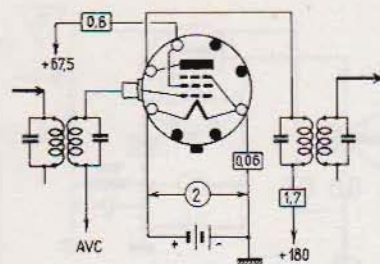
TRIODE	$S = 0,57$	PENTHODE	$S = 0,92$
$f = 50000$		$f = 0,2 M\Omega$	
$V = 0$		$V = -3$	
$I = 1,1$		$I = 5$	

1E3 (M)
HF.0
 $S = 3,5$
 $V = -3,5$


1S2 = DY86
 1S2A = DY87
 1S5 = DAF91
 1T4 = DF91
 1W5 = 1AD5
 1X2A = DY80

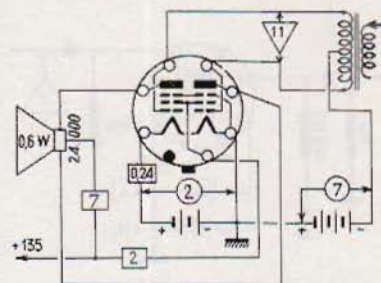
1E5 ①

HF(V)

 $S = 0,65$
 $P = 1,5 \text{ M}\Omega$
 $V = -3 - 8$


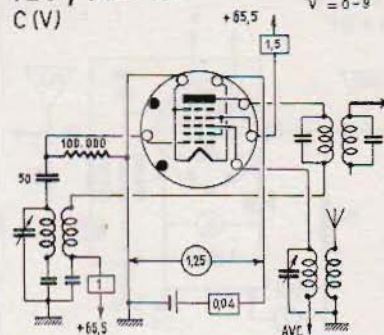
1E7 ①

P

 $S = 1,4$
 $P = 0,26 \text{ M}\Omega$
 $V = -7$


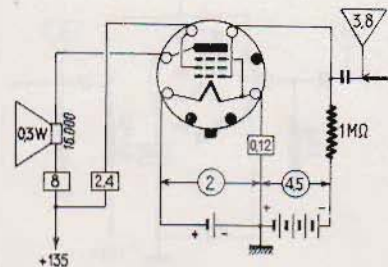
1E8/1C8 ⑤M

C(V)

 $Sr = 0,15$
 $P = 0,4 \text{ M}\Omega$
 $V = 0 - 9$


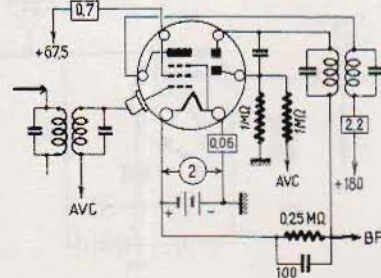
1F5 ①

P

 $S = 1,7$
 $P = 0,2 \text{ M}\Omega$
 $V = -4,5$


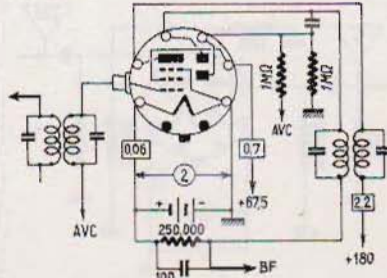
1F6 ⑤S

HF(V)+D

 $S = 0,65$
 $P = 1 \text{ M}\Omega$
 $V = -1,5 - 12$


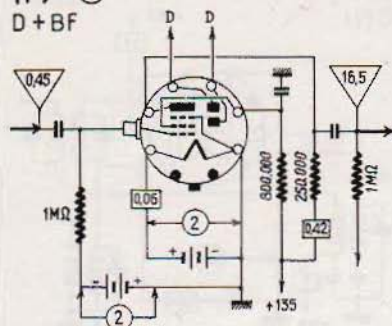
1F7 ①

HF(V)+D

 $S = 0,65$
 $P = 1 \text{ M}\Omega$
 $V = -1,5 - 12$


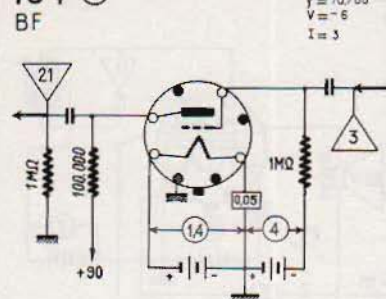
1F7 ①

D + BF

 $V = -2$ 

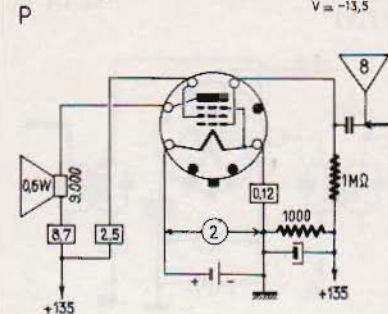
1G4 ①

BF

 $S = 0.825$
 $P = 10.700$
 $V = -6$
 $I = 3$


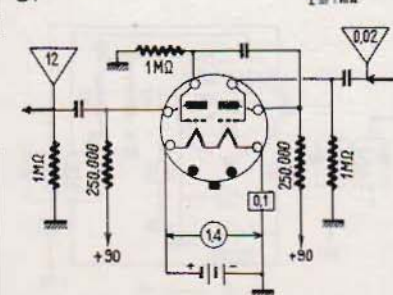
1G5 ①

P

 $S = 1.55$
 $P = 0.16 \text{ MΩ}$
 $V = -13.5$


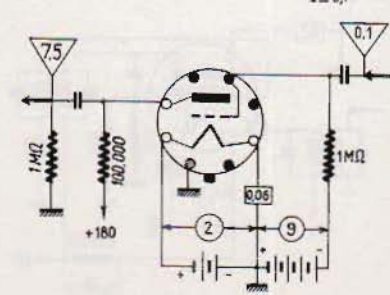
1G6 ①

BF

 $S = 0.67$
 $P = 45.000$
 $V = 0$
 $I = 1 \text{ mA}$


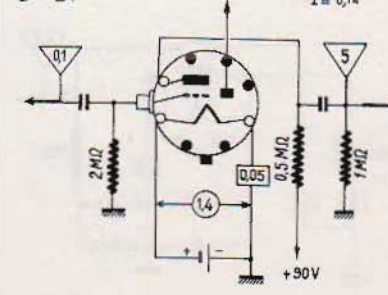
1H4 ①

BF

 $S = 0.9$
 $P = 10.300$
 $V = -13.5$
 $I = 3.1$


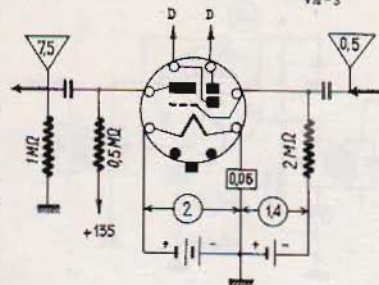
1H5 ①

D + BF

 $S = 0.275$
 $P = 0.24 \text{ MΩ}$
 $V = 0$
 $I = 0.14$


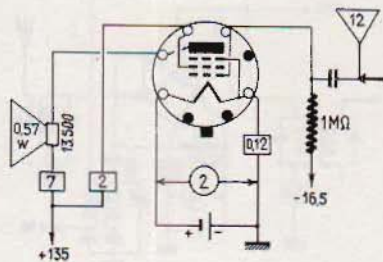
1H6 ①

D + BF

 $S = 0,575$
 $\rho = 35,000$
 $I = 0,8$
 $V_a = -3$


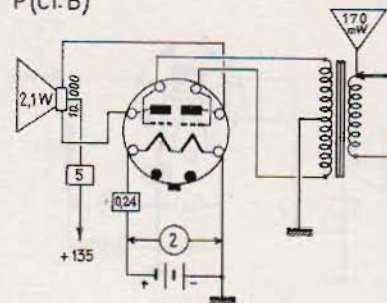
1J5 ①

P

 $S = 0,95$
 $\rho = 0,1M\Omega$
 $V = -16,5$


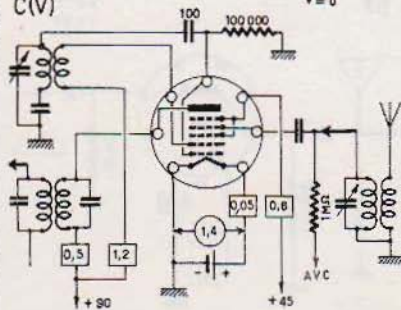
1J6 ①

P (C.I.B)



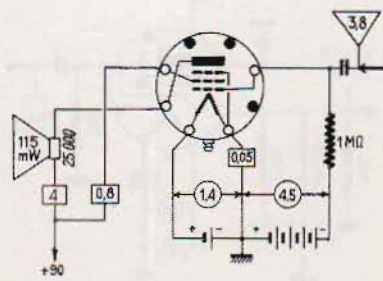
1L6 ①

C(V)

 $S = 0,3$
 $\rho = 0,65M\Omega$
 $V = 0$


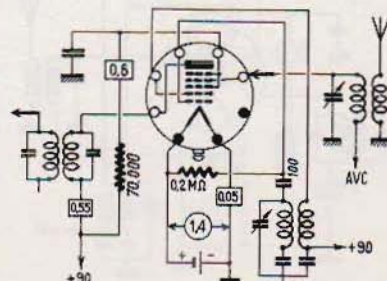
1LA4 ①

P

 $S = 0,85$
 $\rho = 0,3M\Omega$
 $V = -4,5$


1LA6 ①

C

 $S = 0,25$
 $\rho = 0,75M\Omega$
 $V = 0$


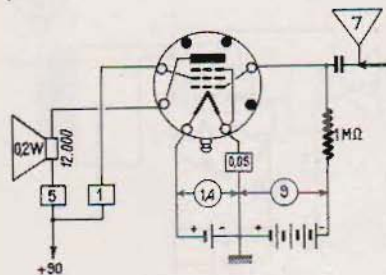
1LB4 (L)

P

$$S = 0,525$$

$$\rho = 0,2 \text{ M}\Omega$$

$$V = -3$$



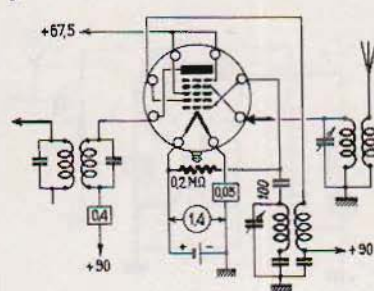
1LB6 (L)

C

$$S_c = 0,1$$

$$\rho = 2 \text{ M}\Omega$$

$$V = 0$$



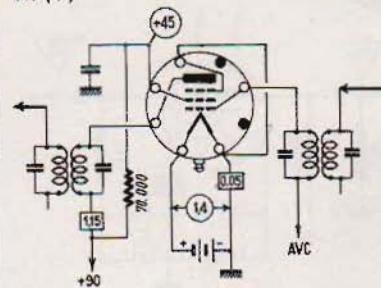
1LC5 (L)

HF(V)

$$S = 0,77$$

$$\rho = 1,5 \text{ M}\Omega$$

$$V = 0-5$$



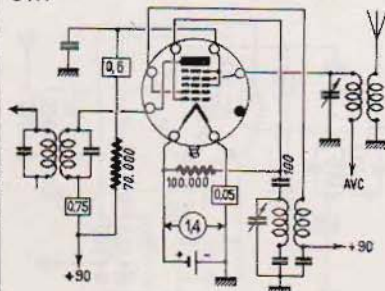
1LC6 (L)

C(V)

$$S_c = 0,25$$

$$\rho = 0,3$$

$$V = 0$$



1LD5 (L)

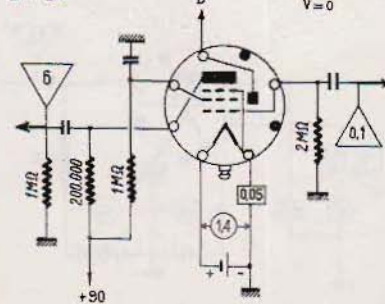
D+BF

$$S = 0,6$$

$$\rho = 0,95 \text{ M}\Omega$$

$$I = 0,6$$

$$V = 0$$



1LE3 (L)

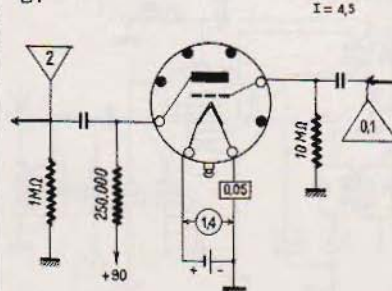
BF

$$S = 1,3$$

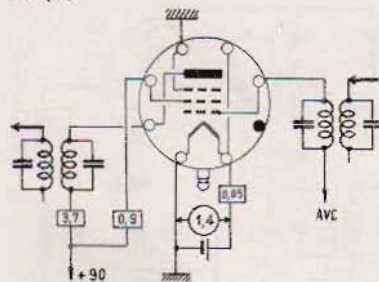
$$\rho = 11200$$

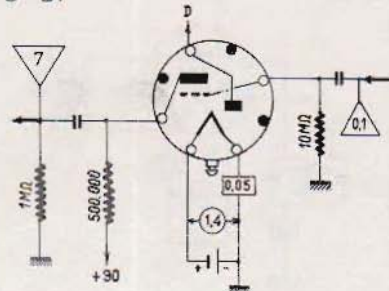
$$V = -3$$

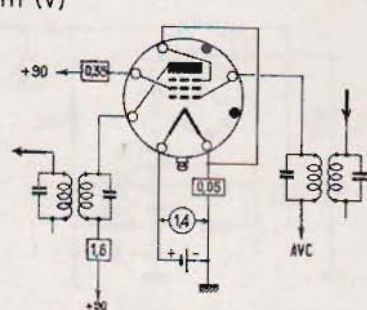
$$I = 4,5$$

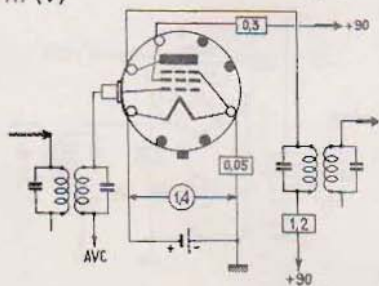


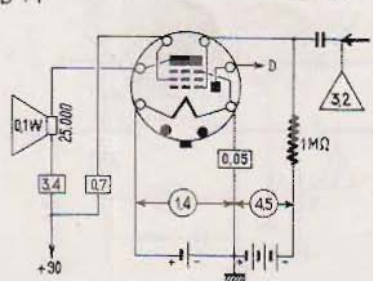
1LG5 (L)
HF (V)

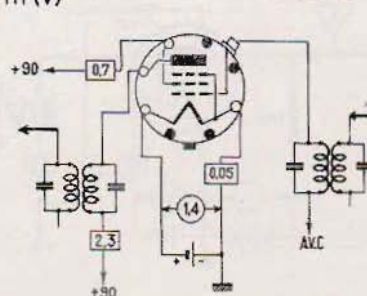
 $S = 1,15$
 $P = 0,5 \text{ M}\Omega$
 $V = -1,5 - 19$

1LH4 (L)
D + BF

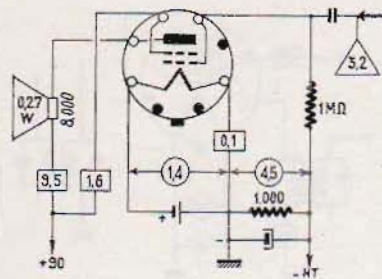
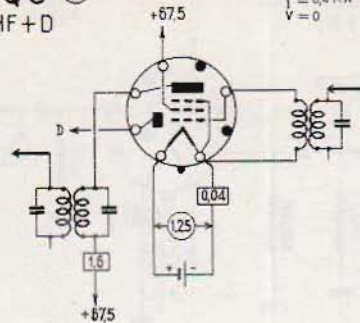
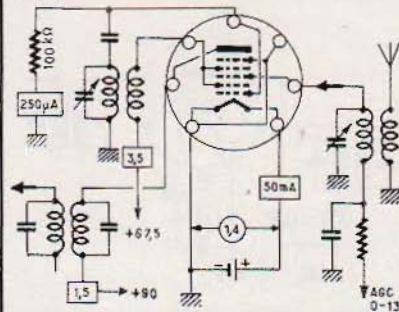
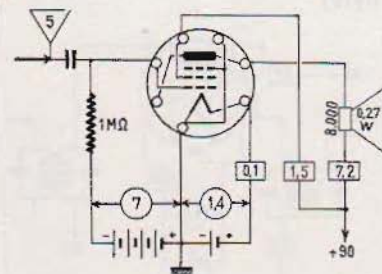
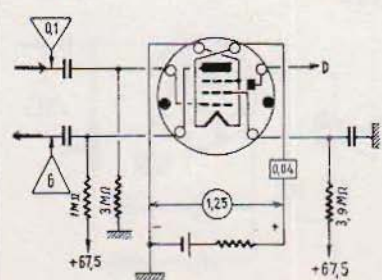
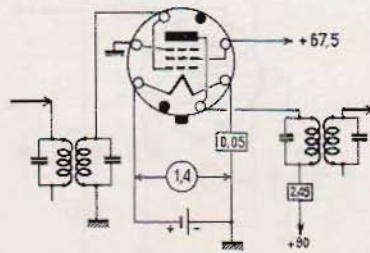
 $S = 0,27$
 $P = 0,24 \text{ M}\Omega$
 $V = 0$

1LN5 (L)
HF (V)

 $S = 0,8$
 $P = 1,1 \text{ M}\Omega$
 $V = 0 - 45$

1N5 (O)
HF (V)

 $S = 0,75$
 $P = 1,5 \text{ M}\Omega$
 $V = 0 - 4$

1N6 (O)
D + P

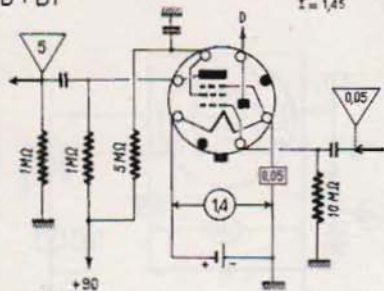
 $S = 0,8$
 $P = 0,3 \text{ M}\Omega$
 $V = -4,5$

1P5 (O)
HF (V)

 $S = 0,75$
 $P = 0,8 \text{ M}\Omega$
 $V = 0 - 12$


1Q5 ○
P $S = 0,21$
 $V = -4,5$ 1Q6 SM
HF + D $S = 0,6$
 $P = 0,4 \text{ M}\Omega$
 $V = 0$ 1R5 M
C(V) $S = 0,28$
 $P = 0,4 \text{ M}\Omega$
 $V = 0$ 1S4 M
P $S = 1,55$
 $P = 0,1 \text{ M}\Omega$
 $V = -7$ 1S6 SM
D + BF $S = 0,6$
 $P = 0,4 \text{ M}\Omega$
 $V = 0$ 1SA6 ○
HF $S = 0,97$
 $P = 0,8 \text{ M}\Omega$
 $V = 0$ 

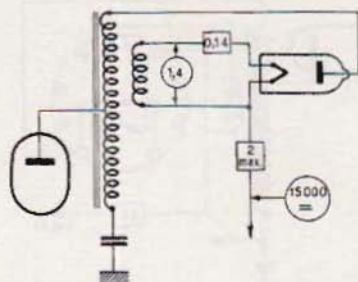
1SB6 (0)

D+BF

 $S = 0,65$
 $P_{\text{max}} = 0,7 \text{ M}\Omega$
 $V = 0$
 $Z = 1,45$


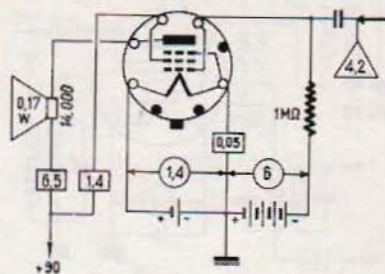
1T2 (S)

R(THT)



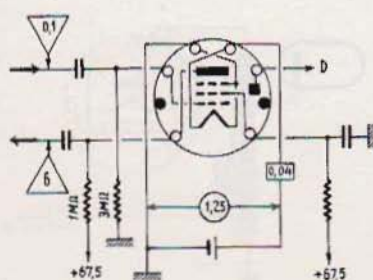
1T5 (0)

P

 $S = 1,15$
 $V = -6$


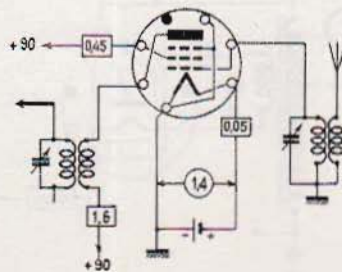
1T6 (SM)

D+BF

 $S = 0,6$
 $P_{\text{max}} = 0,4 \text{ M}\Omega$
 $V = 0$


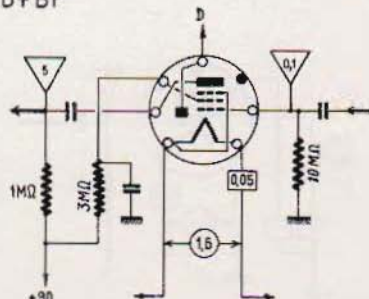
1U4 (M)

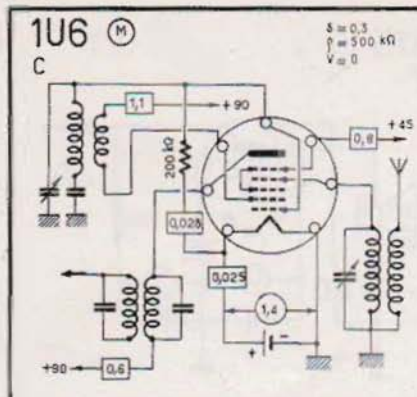
HF

 $S = 0,9$
 $P_{\text{max}} = 1,5 \text{ M}\Omega$
 $V = 0$


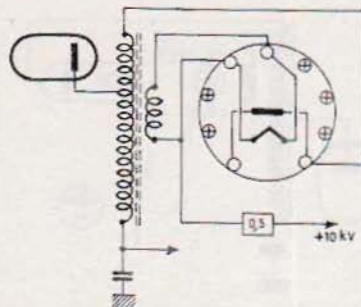
1U5 (M)

D+BF

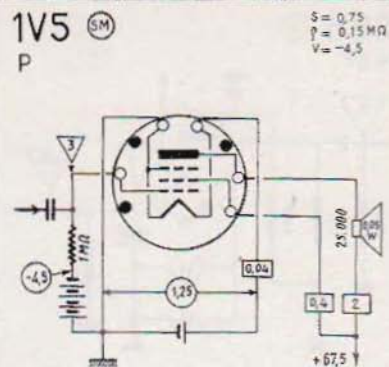




1V2 (N)
R(THT) (V)

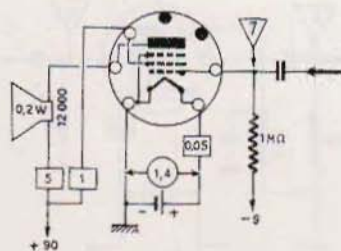


1V5 (SM)
P

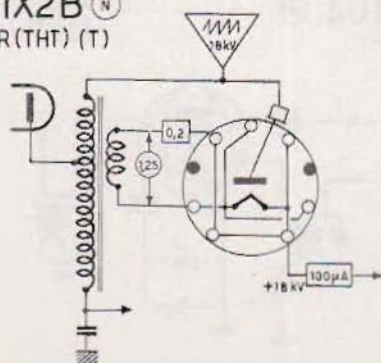


1W4 (M)
P

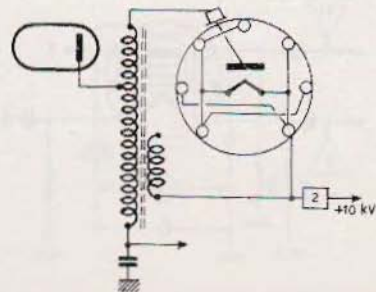
$S = 0,925$
 $P = 0,25 \text{ M}\Omega$
 $V = -9$



1X2B (N)
R(THT) (T)

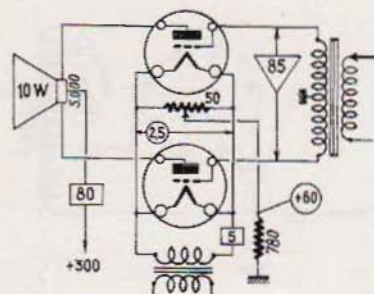


1Z2 (M)
R(THT) (T)



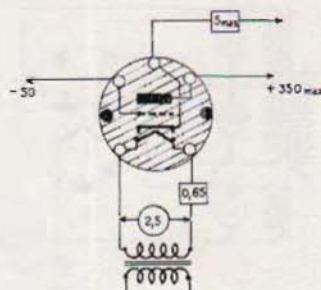
2A3 (US)
P(Cl.A)

$S = 5,25$
 $P = 800$
 $Sv = -45$



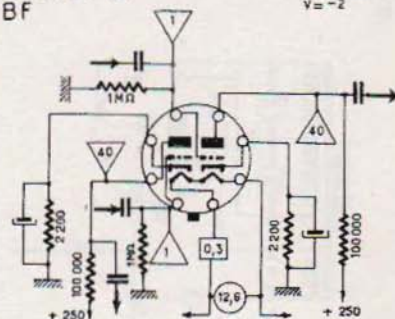
2C4 (M)
THYR.

V-50

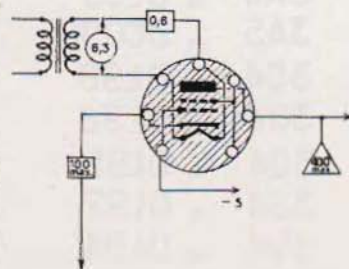


2C52 (O)
BF

$S = 1,9$
 $P = 52\ 700$
 $V = -2$

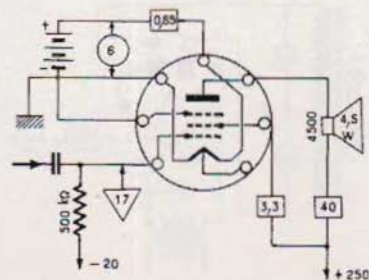


2D21 (M)
THYR.



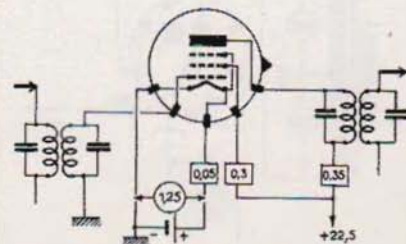
2E30 (M)
P

$S = 3,7$
 $P = 63\ k\Omega$
 $V = -20$



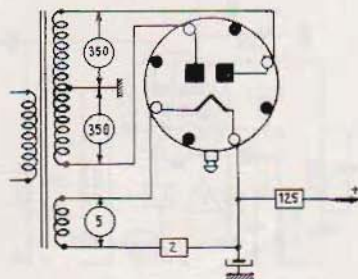
2E31 (SM)
HF

$S = 0,5$
 $P = 350\ 000$
 $V = 0$



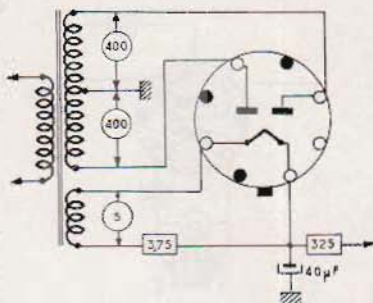
3AZ4 (L)

R



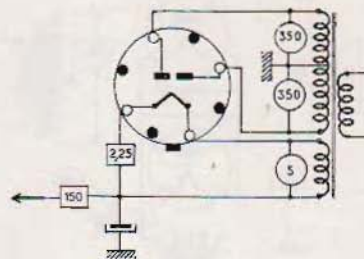
5AU4 (0)

R



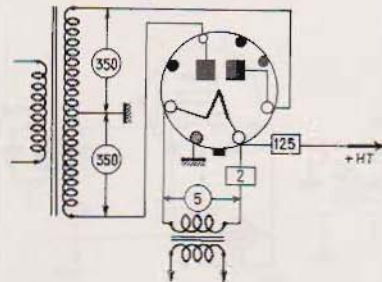
5AX4 (0)

R



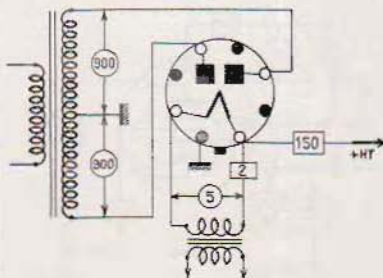
5AZ4 (0)

R



5R4 (0)

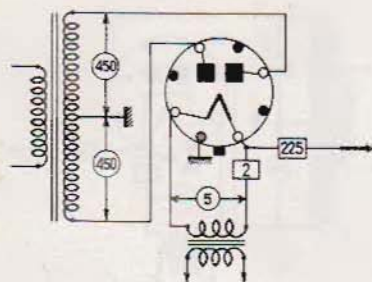
R



2B35 = EA50
 3A4 = DL93
 3A5 = DCC90
 3C4 = DL96
 3B4 = DL98
 3Q4 = DL95
 3S4 = DL92
 3V4 = DL94

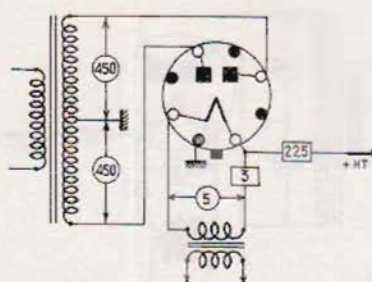
5T4 ①

R



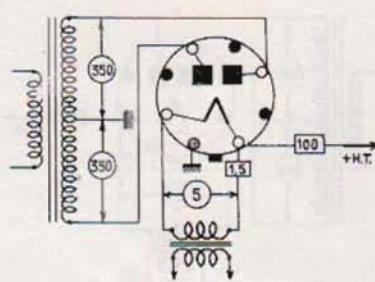
5U4 ①

R



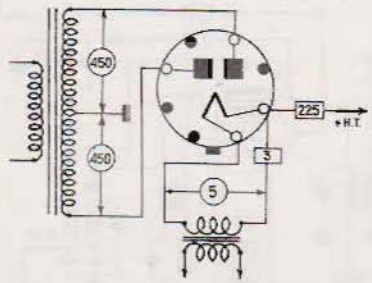
5W4 ①

R



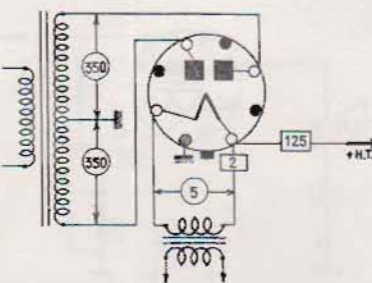
5X4 ①

R



5Y3 ①

R



5AQ4 = GZ32

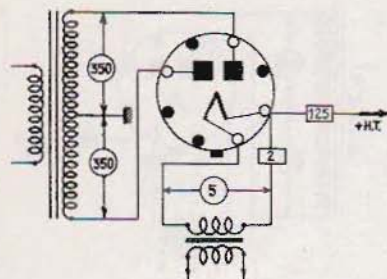
5AR4 = GZ34

5P29 = EL38

5V4 = GZ32

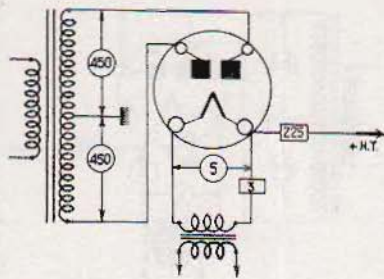
5Y4 ①

R



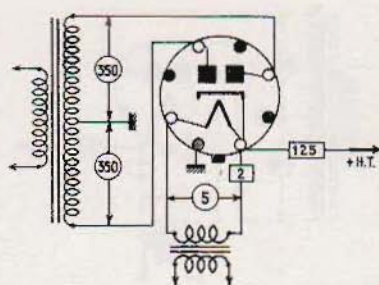
5Z3 ①

R



5Z4 ①

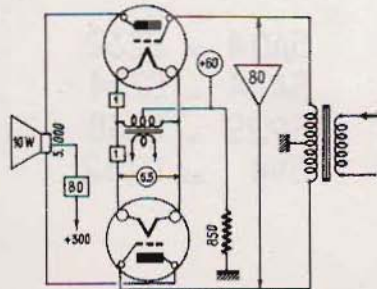
R



6A3 ①

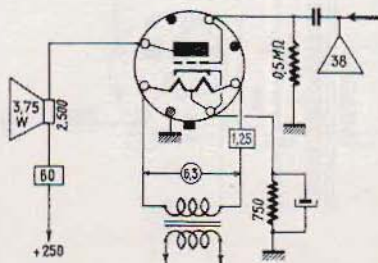
P(Cl. A)

V = -60



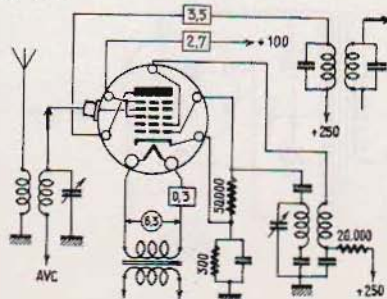
6A5 (6A3) ①

P

 $S = 5,25$
 $P = 800$
 $V = -45$


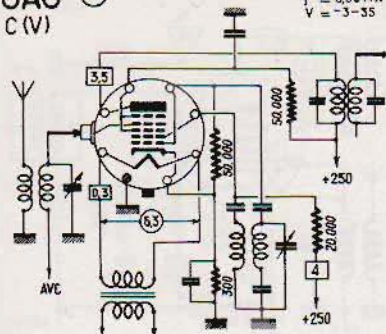
6A7 (6A8) ①

C (V)

 $S_c = 0,55$
 $P = 0,36 \text{ MW}$
 $V = -3-35$


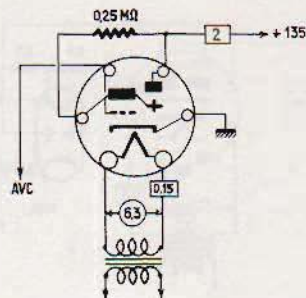
6A8 (0)
C (V)

$S_c = 0,55$
 $P = 0,36 \text{ M}\Omega$
 $V = -3 - 35$



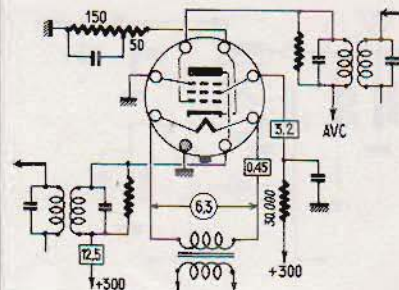
6AB5 (US)
I

$V = 0 - 10$



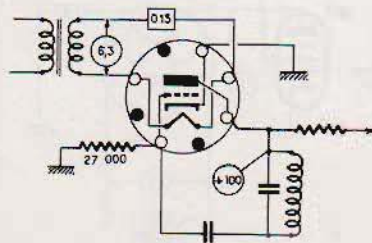
6AB7 (0)
HF (V) (T)

$S = 5$
 $P = 0,7$
 $V = -3 - 22,5$



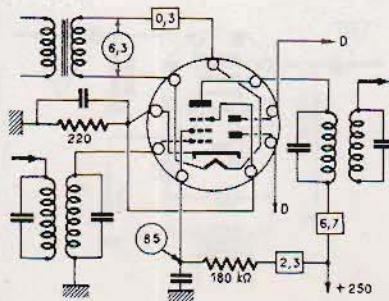
6AD4 (SM)
O (T) (FM)

$S = 2$
 $P = 35,000$
 $V = -1$



6AD8 (N)
HF + D

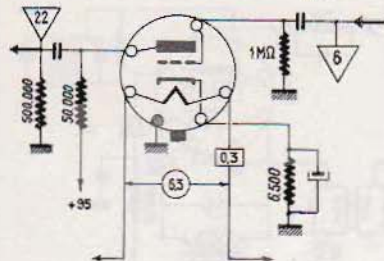
$S = 1,1$
 $P = 1 \text{ M}\Omega$
 $V = -2$



6AB4 = EC92
6AB8 = ECL80
6AJ8 = ECH81

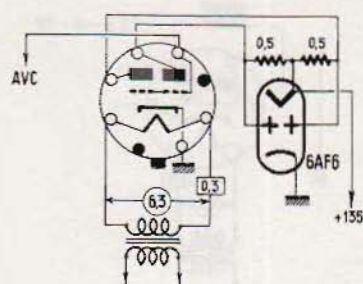
6AE5 (D)

BF

 $S = 1,2$
 $P = 3,500$
 $V_{bi} = -15$
 $I = 7$


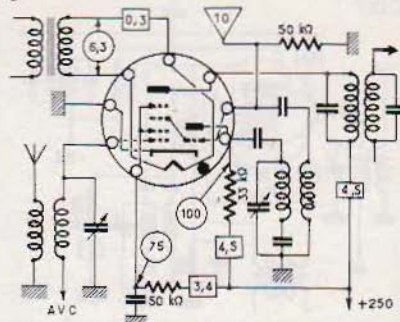
6AE6 (D)

I

 $S = 1$
 $P = 3,5000$
 $V = -1,5 - 3,5$


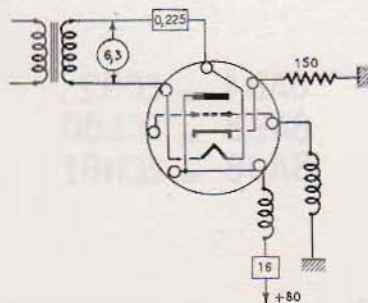
6AE8 (N)

C

 $S_c = 0,78$
 $P = 700 \text{ k}\Omega$
 $V = 0$


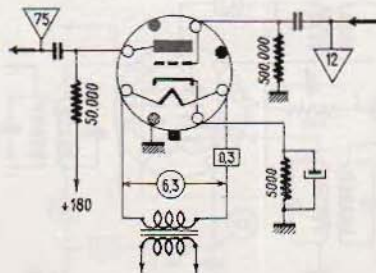
6AF4 (M)

0(VHF)

 $S = 6,6$
 $P = 2,270$
 $\mu = 15$


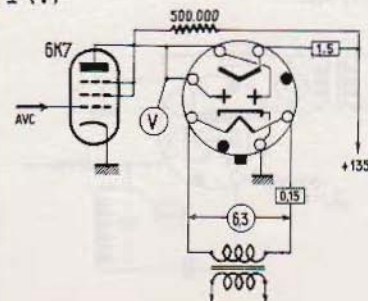
6AF5 (D)

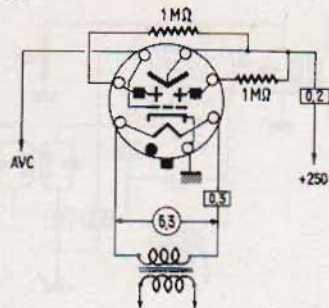
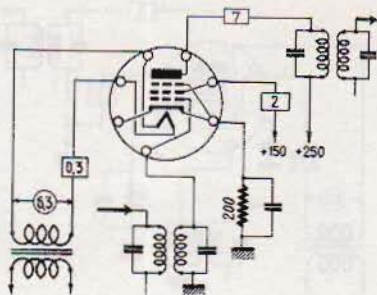
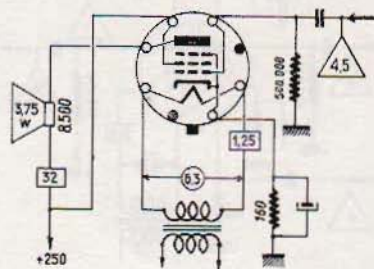
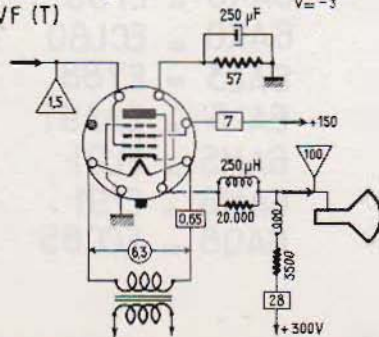
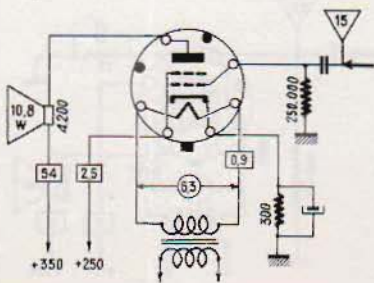
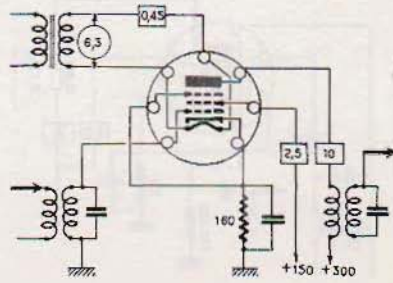
BF

 $S = 1,5$
 $P = 4,900$
 $V = -18$
 $I = 7$


6AF6 (D)

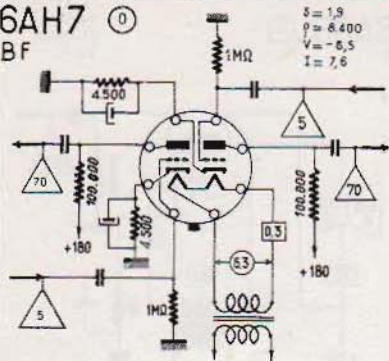
I (V)

 $V = 0 + 80$


6AF7 (0)
I (V) $V = 0-19$ 6AG5 (M)
HF (T)
 $S = 5$
 $P = 0.8$
 $V = -1.8$
6AG6 (0)
P
 $S = 10$
 $P = 50.000$
 $V = -6$
6AG7 (0)
VF (T)
 $S = 11$
 $P = 130.000$
 $V = -3$
6AH5 (0)
P
 $S = 5.2$
 $P = 3.1.000$
 $V = -1.8$
6AH6 (M)
HF (T)
 $S = 9$
 $P = 0.5M\Omega$
 $V = -2$


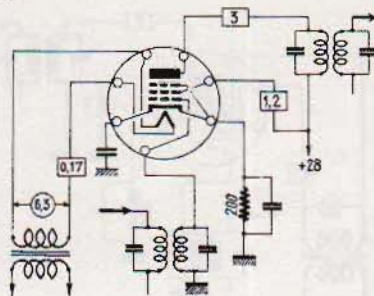
6AH7 ①

BF

 $S = 1,9$
 $\rho = 8.400$
 $V = -6,5$
 $I = 7,6$


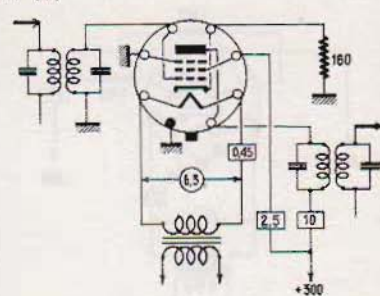
6AJ5 ①

HF

 $S = 2,75$
 $\rho = 90000$


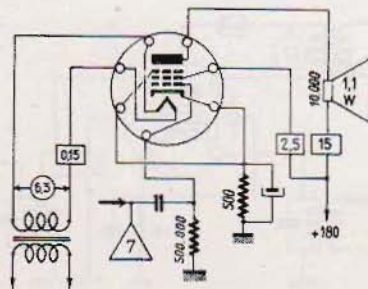
6AJ7 ①

HF (T)

 $S = 9$
 $\rho = 1M\Omega$


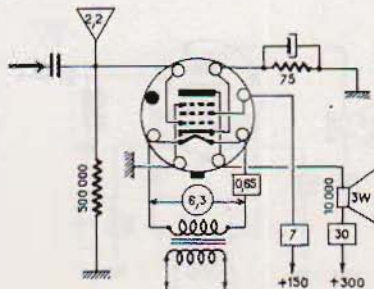
6AK6 ①

P

 $S = 2,3$
 $\rho = 0,2M\Omega$
 $V = -9$


6AK7 ①

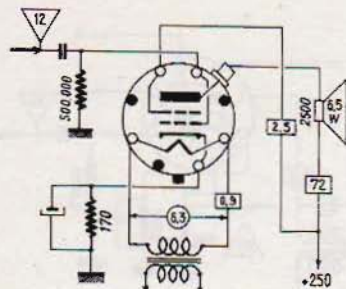
P

 $S = 11$
 $\rho = 130000$
 $V = -3$


6AK5 = EF95
 6AK8 = ECL80
 6AL3 = EY88
 6AL5 = EAA91
 6AM5 = EL91
 6AM6 = EF91
 6AQ8 = ECC85

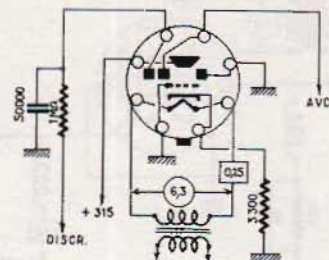
6AL6 (6L6) Ⓞ

P

 $S = 6$
 $P = 22.500$
 $V = -14$


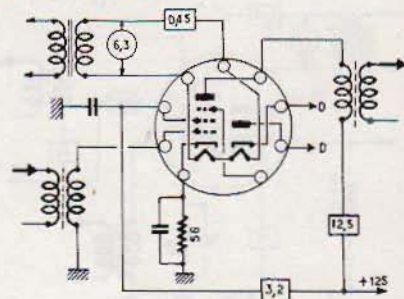
6AL7 Ⓞ

I (FM)



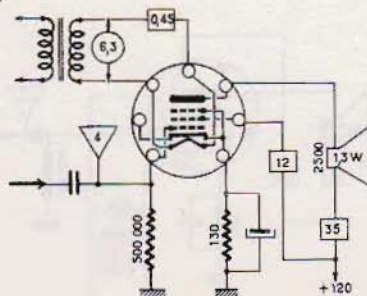
6AM8 Ⓝ

HF+D (T)

 $S = 7.8$
 $P = 0.3 \text{ W}$
 $V = -0.8$


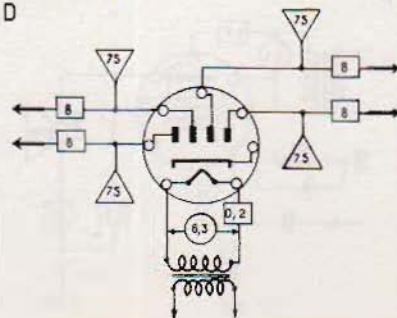
6AN5 Ⓞ

P

 $S = 8$
 $P = 12.500$
 $V = -6$


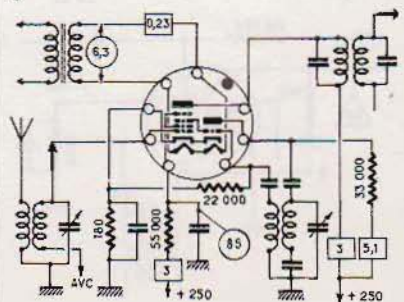
6AN6 Ⓞ

D



6AN7 Ⓝ

C

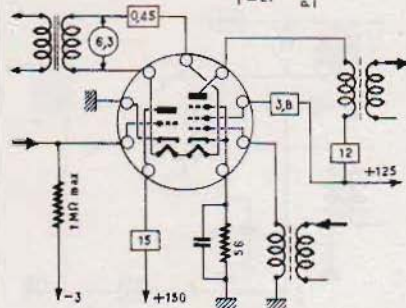
 $S = 0.75$
 $P = 0.1 \text{ W}$
 $V = -2 - 25$


6AN8 (N)

HF+BF(T)

TRIODE $S = 4,5$
 $P = 4,7$ KΩ
 $V = -3$
 $I = 21$

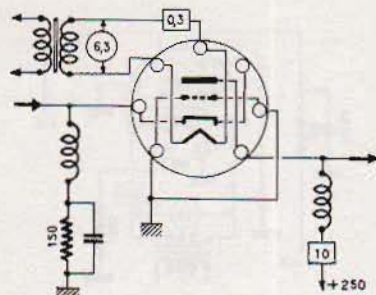
PENTODE $S = 7,8$
 $P = 0,17$ MΩ
 $V = -8$



6AQ4 (M)

HF (250 MHz)

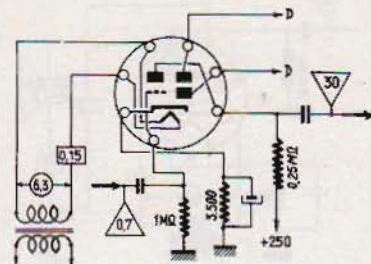
$S = 8,5$
 $P = 12000$
 $V = -1,5$



6AQ6 (M)

D+BF

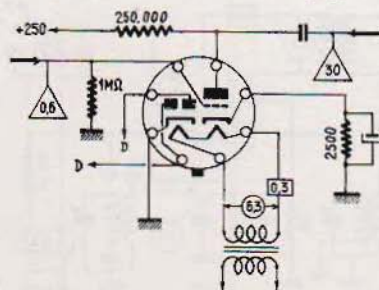
$S = 1,2$
 $P = 58000$
 $V = -3$
 $I = 1$



6AQ7 (O)

D+BF

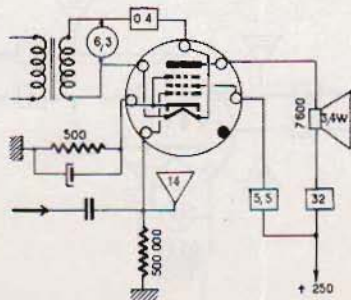
$S = 1,6$
 $P = 44,000$
 $V = -2$
 $I = 2,3$



6AR5 (M)

P

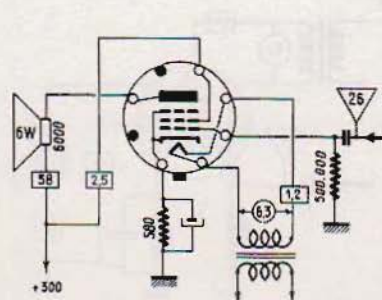
$S = 2,3$
 $P = 68,000$
 $V = -18$



6AR6 (O)

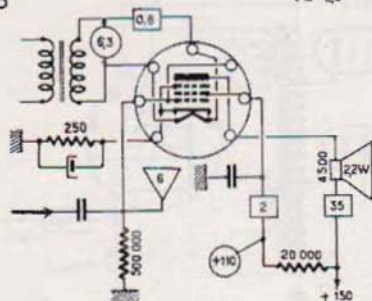
P

$S = 1,2$
 $P = 22000$
 $V = -36$



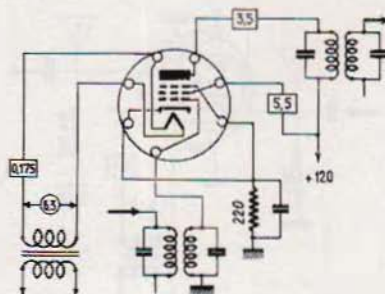
6AS5 (M)
P

$S = 5,6$
 $P = 25000$
 $V = -8,5$



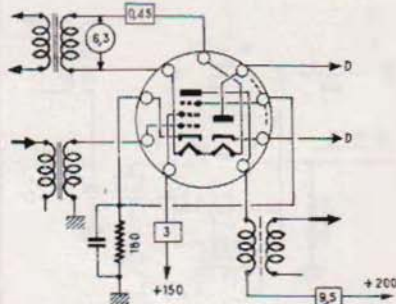
6AS6 (M)
HF (T)

$S = 3,5$
 $V = -2$



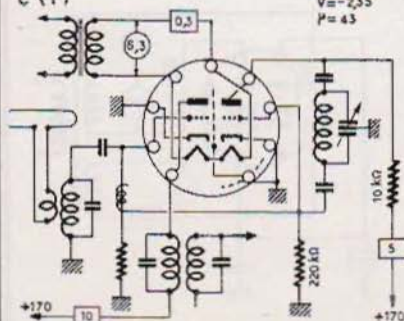
6AS8 (N)
HF+D (T)

$S = 6,2$
 $P = 0,3 \text{ M}\Omega$
 $V = -2,2$



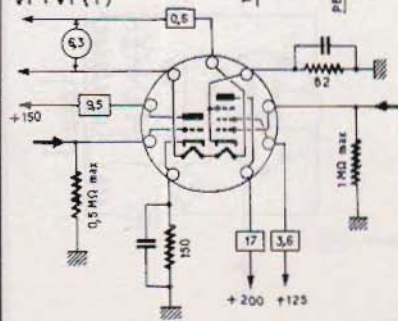
6AT7N (N)
C (T)

$S = 4,9$
 $S_c = 1,9$
 $S = 11 \text{ k}\Omega$
 $V = -2,35$
 $P = 4,3$



6AU8 (N)
VF+VF(T)

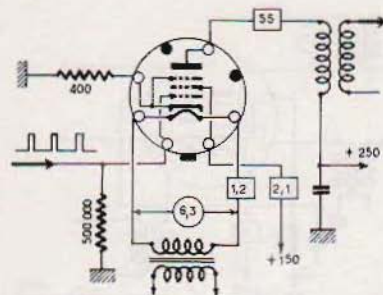
TRIDGE $S = 5,6$
 $V = 7,2 \text{ k}\Omega$
 $V = 1,4$
PENTODE $S = 8$
 $P = 0,14 \text{ M}\Omega$
 $V = 1,7$



6AQ5 = EL90
6AT6 = EBC90
6AU6 = EF94
6AV4 = EZ91
6AV6 = EBC91

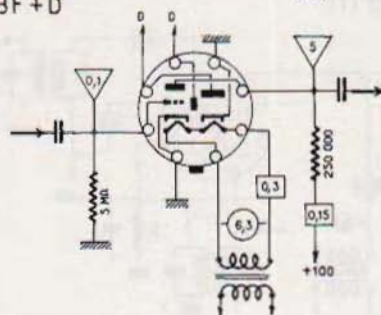
6AV5 ①

P(T)

S = 5,8
V = -22,5

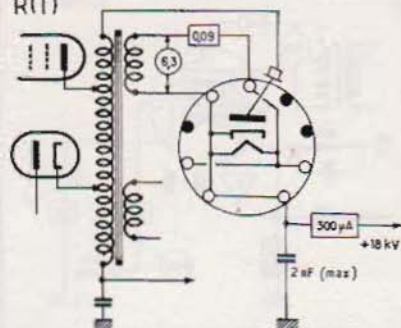
6AW7 ①

BF + D

S = 1,2
P = 70000
V = 0

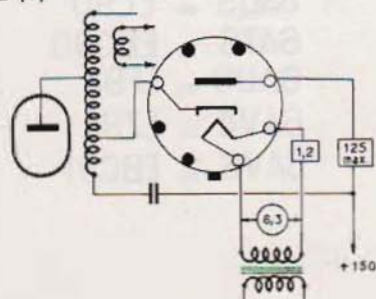
6AX2N ①

R(T)



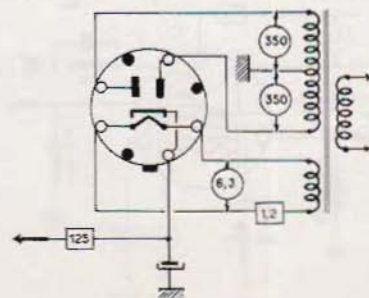
6AX4 (25AX4) ①

D(T)



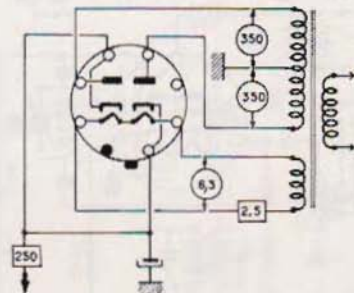
6AX5 ①

R



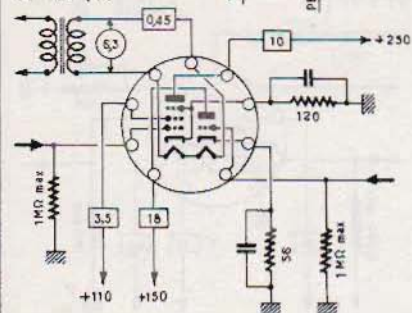
6AX6 ①

R



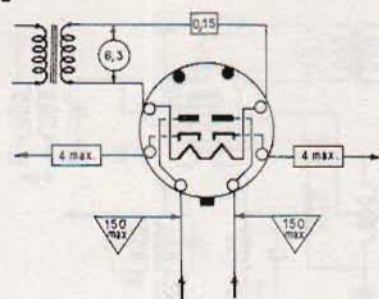
6AX8 (N)

VF+VF(T)



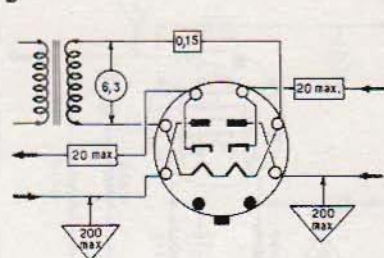
6AZ5 (SM)

D



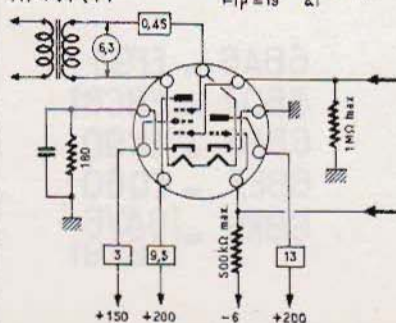
6AZ6 (SM)

D



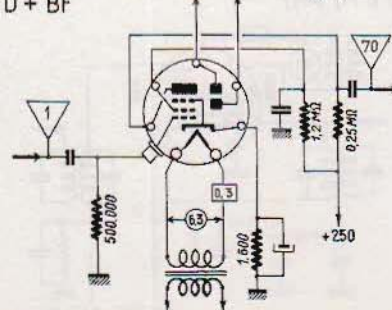
6AZ8 (N)

HF+VF(T)



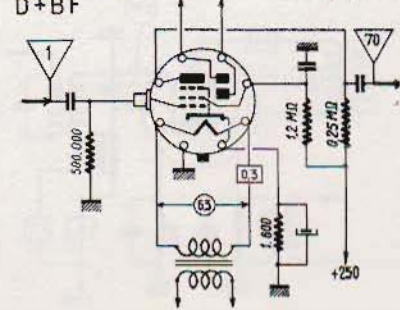
6B7 (6B8) (US)

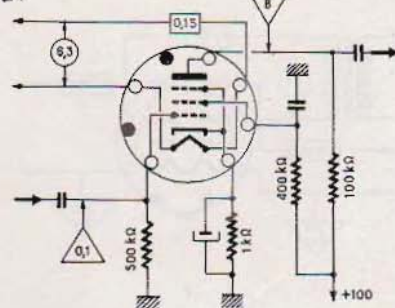
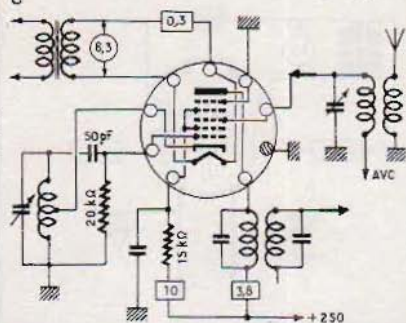
D + BF



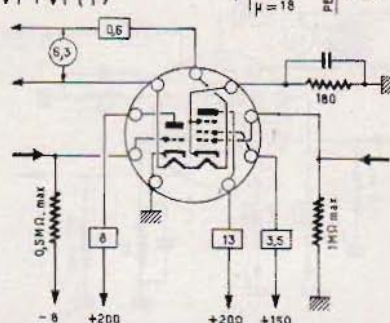
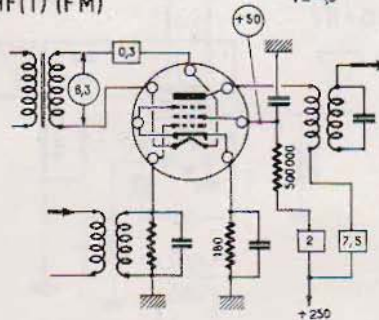
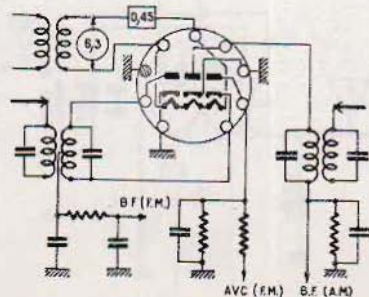
6B8 (O)

D + BF



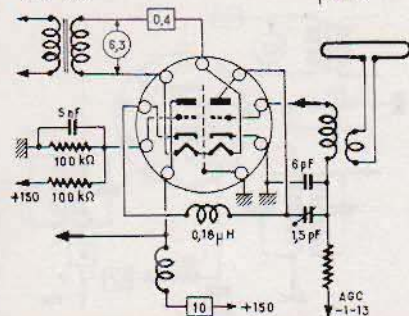
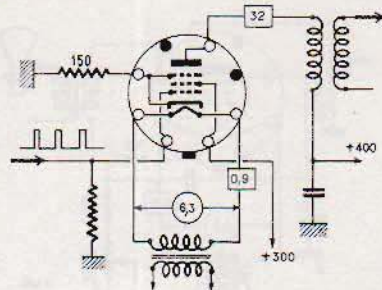
6BA5 (SM)
BF
 $S = 2,15$
 $P = 175,000$
 $V = -2$
6BA7 (N)
C
 $S_c = 0,95$
 $P = 1 M\Omega$
 $V = 0-20$
6BA8 (N)
VF+VF(T)

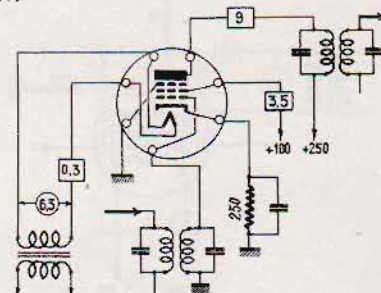
TRIODE	$S = 2,7$	$S = 9$
	$P = 6,7 k\Omega$	$P = 0,4 M\Omega$
	$V = -8$	$V = -3$
PENTHODE	$P = 18$	

6BC5 (M)
HF(T) (FM)
 $S = 5,7$
 $P = 0,8 M\Omega$
 $V = -15$
6BC7 (N)
D (FM/AM)

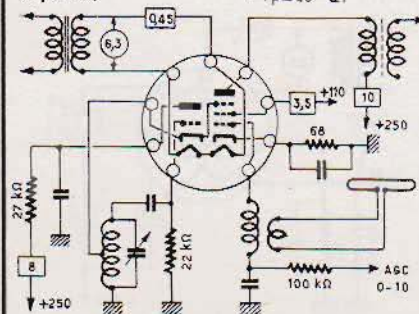
6BA6 = EF93
 6BD7 = EBC81
 6BE6 = EK90
 6BE7 = EQ80
 6BK6 = { 6AV6
 EBC91

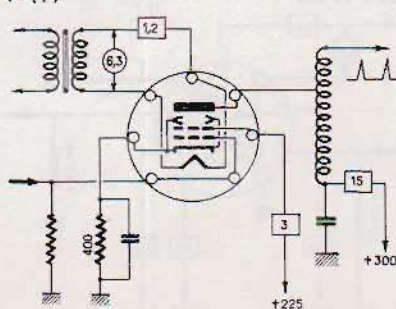
6BC8 (N)
VHF (T)

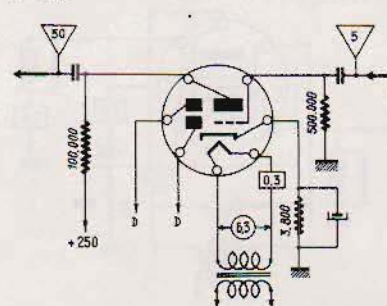
 $S = 6,2$
 $P = 5,550$
 $V = 0$
 $\mu = 35$

6BD5 (O)
P (T)

6BD6 (M)
HF

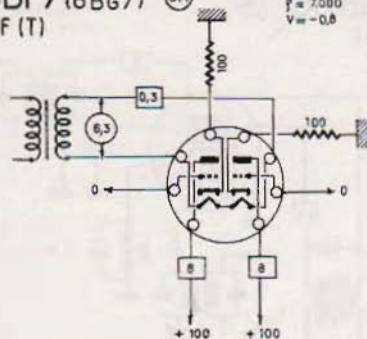
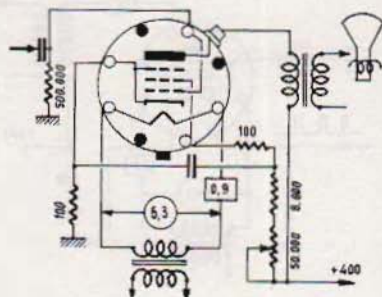
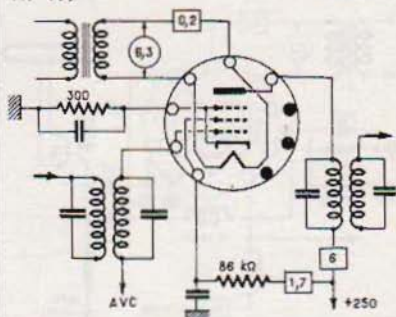
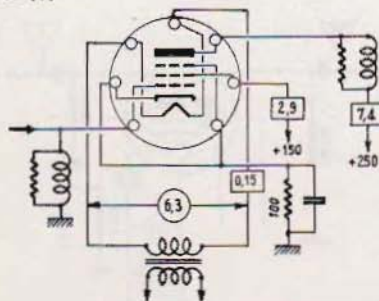
 $S = 2$
 $P = 0,7 \text{ M}\Omega$
 $V = -3$

6BE8 (N)
C (VHF)

TRIODE	$S = 8,5$	$S = 5,2$
	$P = 5 \text{ k}\Omega$	$P = 0,4 \text{ M}\Omega$
	$V = 0$	$V = 0$
	$\mu = 40$	$\mu = 0$

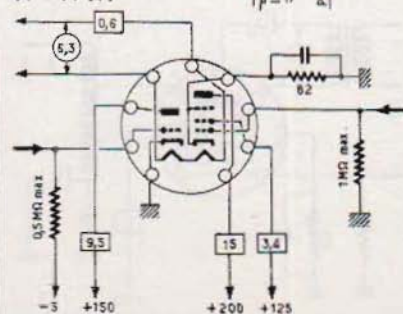
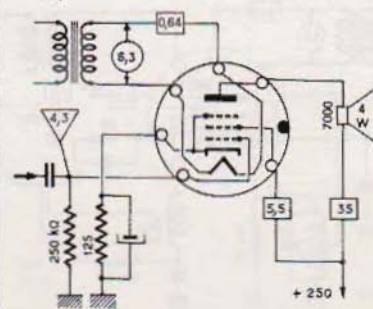

6BF5 (M)
P (T)

 $S = 4,2$
 $P = 0,1 \text{ M}\Omega$
 $V = -5$

6BF6 (M)
D + BF

 $S = 1,9$
 $P = 0,500$
 $V = -9$


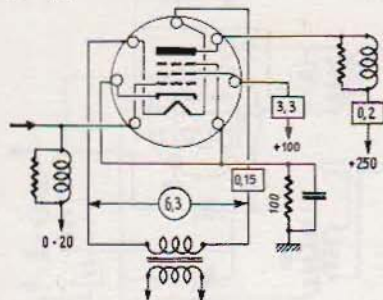
6BF7 (6BG7) (5M)
HF (T)
 $S = 4,8$
 $P = 7,000$
 $V = -0,8$
6BG6 (0)
P (T)
 $S = 6$
6BH5 (N)
HF (V)
 $S = 2,2$
 $P = 1,1 \text{ M}\Omega$
 $V = -2,5 -30$
6BH6 (M)
HF (T)
 $S = 4,8$
 $P = 1,4 \text{ M}\Omega$
 $V = -1$
6BH8 (N)
VF+VF(T)

TAIODE	$S = 3,3$	$I = 7$
	$P = 5150$	$I = 0,15 \text{ M}\Omega$
	$V = -5$	$I = 1,5$
	$I = 17$	

6BJ5 (M)
P (T)
 $S = 10,5$
 $P = 40 \text{ k}\Omega$
 $V = -5$


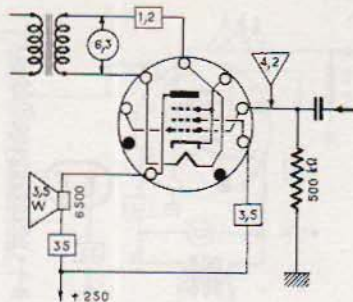
6BJ6 (M)
HF (T)

$S = 3,8$
 $P = 1,3 \text{ mW}$
 $V = -1 \sim -20$



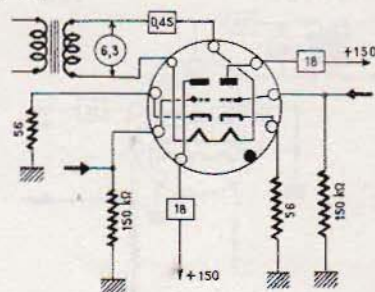
6BK5 (N)
P

$S = 8,5$
 $P = 100 \text{ kV}$
 $V = -5$



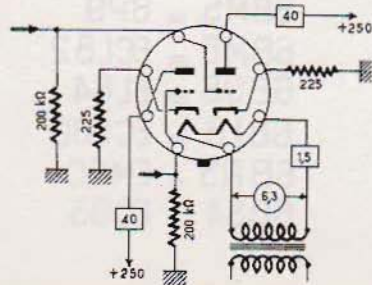
6BK7 (N)
HF (T)

$S = 8,5$
 $P = 4,7 \text{ kV}$
 $\mu = 40$

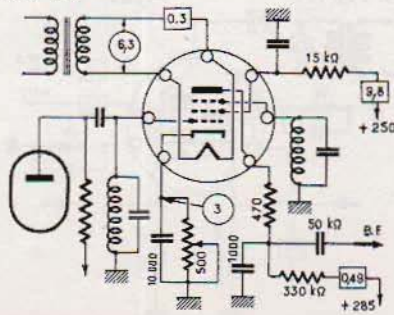


6BL7 (O)
BF_VF (T)

$S = 7$
 $P = 2,15 \text{ kV}$
 $V = -9$
 $\mu = 15$

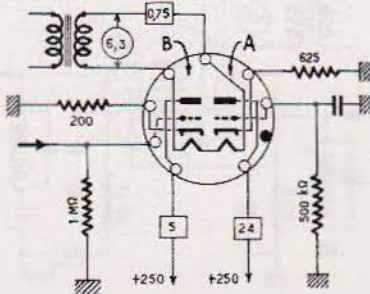


6BN6 (M)
D (FM)



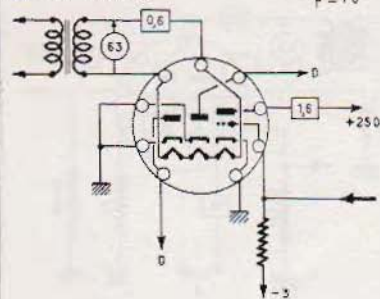
6BN7 (N)
BF_VF (T)

$S = 5,5$
 $P = 2,2 \text{ kV}$
 $V = -15$
 $\mu = 12$



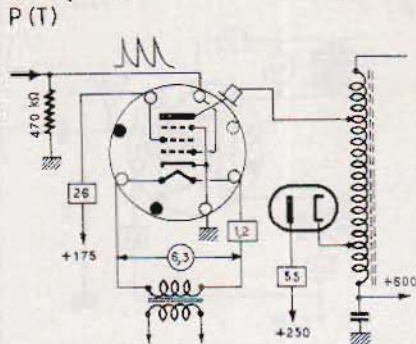
6BN8 (N)

BF-VF + D(T)

 $S = 2,5$
 $P = 28 \text{ k}\Omega$
 $V = -3$
 $\mu = 70$


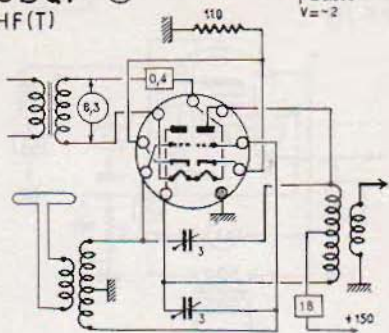
6BQ6 (O)

P(T)

 $S = 5,5$
 $P = 20 \text{ k}\Omega$


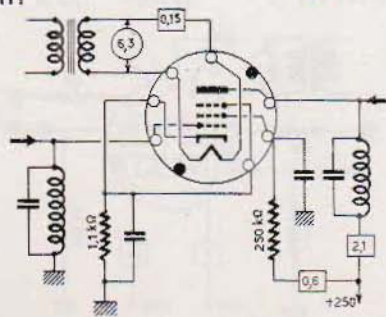
6BQ7 (N)

HF(T)

 $S = 6$
 $P = 5.800$
 $V = -2$


6BR7 (N)

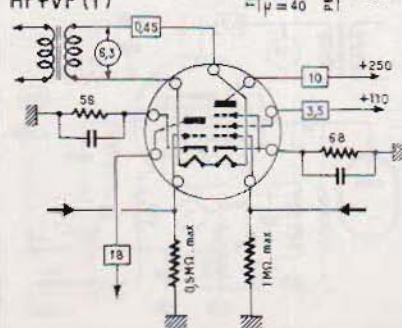
HF

 $S = 1,25$
 $P = 2,5 \text{ M}\Omega$
 $V = -3$


6BR8 (N)

HF+VF(T)

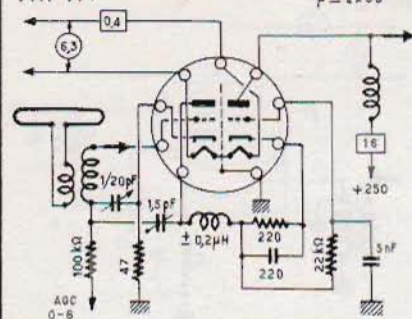
TRIODE		PENTHODE	
$S = 6,5$	$S = 5,2$	$S = 6,5$	$S = 5,2$
$P = 5 \text{ k}\Omega$	$P = 0,4 \text{ M}\Omega$	$P = 5 \text{ k}\Omega$	$P = 0,4 \text{ M}\Omega$
$V = 10$	$V = 0,8$	$V = 10$	$V = 0,8$
$\mu = 40$		$\mu = 40$	



6BM5 = 6P9
 6BM8 = ECL82
 6BQ5 = EL84
 6BL8 = ECF80
 6BR5 = EM80
 6BS4 = EC93

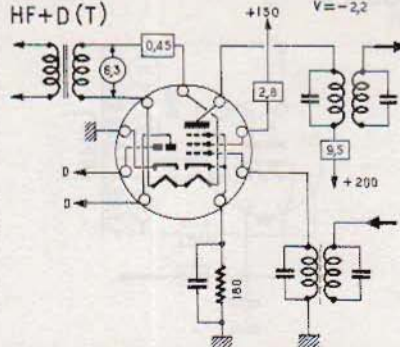
6BS8 (N)
VHF (T)

$S = 10$
 $P = 5000$
 $V = -1$
 $V = 2 \times 36$



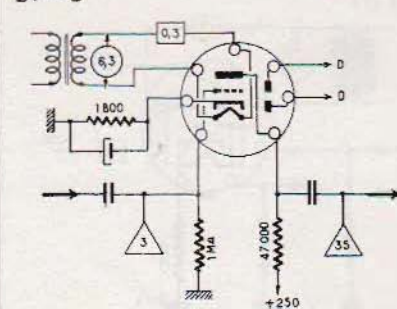
6BT8 (N)
HF+D (T)

$S = 6.2$
 $P = 0.3 \text{ mW}$
 $V = -2.2$



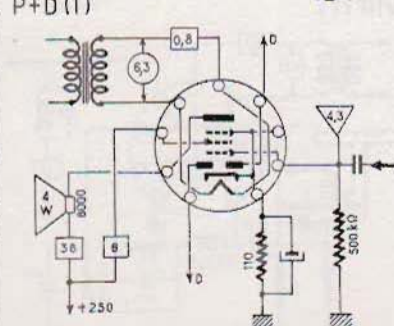
6BU6 (M)
BF + D

$S = 1.9$
 $P = 8.500$
 $V = 9$



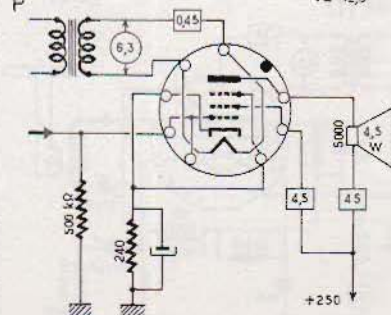
6BV7 (N)
P+D (T)

$S = 10$
 $P = 100 \text{ kOhm}$
 $V = -5$



6BW6 (M)
P

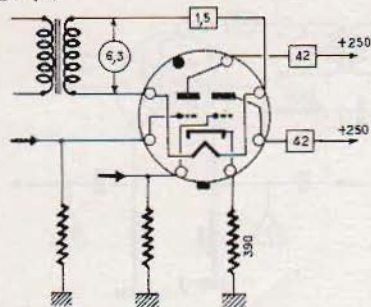
$S = 4.1$
 $P = 52 \text{ kOhm}$
 $V = -12.5$



6BT4 = EZ40
6BT6 = 6AT6
6BX4 = 6Z4
6BX6 = EF80
6BY7 = EF85

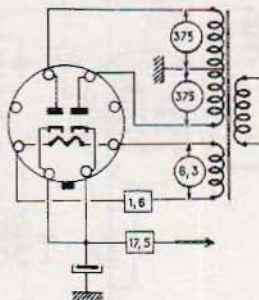
6BX7 (SM)

BF (T)

 $S = 7,6$
 $\rho = 1300$
 $\mu = 10$


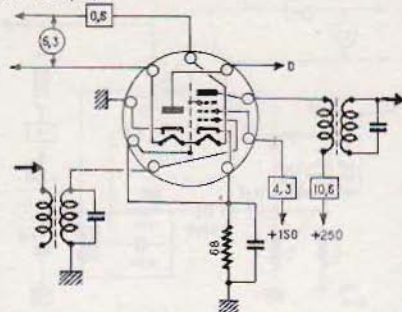
6BY5 (O)

R



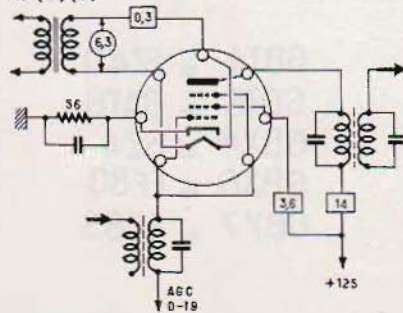
6BY8 (N)

HF+D (T)

 $S = 5,2$
 $\rho = 1400$
 $V = -1$


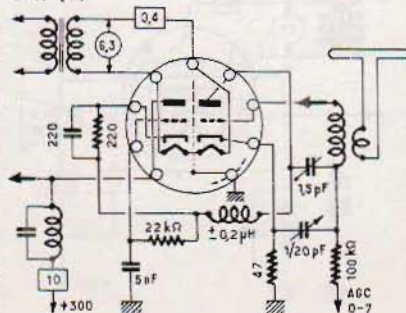
6BZ6 (N)

HF(V)(T)

 $S = 8$
 $\rho = 0,25 \text{ M}\Omega$
 $V = -1-19$


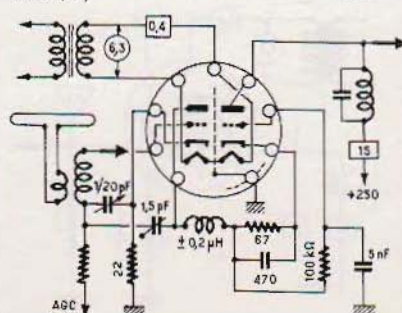
6BZ7 (N)

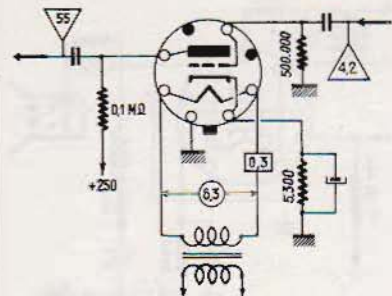
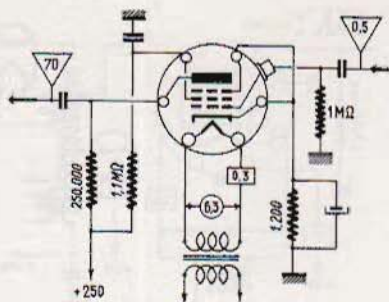
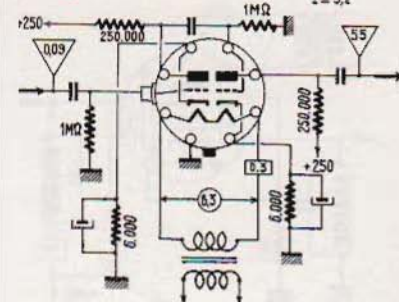
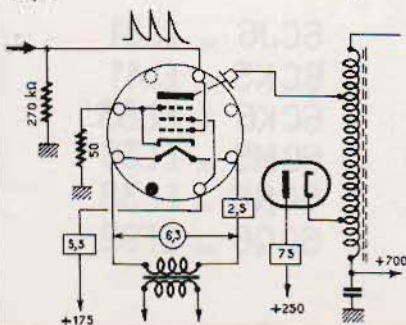
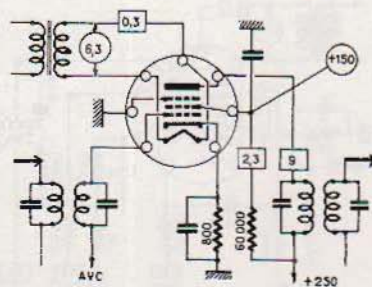
VHF (T)

 $S = 6,8$
 $\rho = 5300$
 $V = -2,2$


6BZ8 (N)

VHF (T)

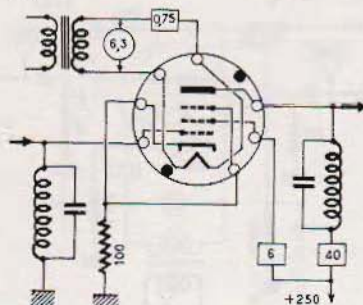
 $S = 10$
 $\rho = 5600$
 $V = -0,5$


6C5 (0)
BF
 $S = 2$
 $\rho = 10,000$
 $V = -8$
 $I = 8$
6C6 (U5)
BF
 $S = 1,2$
 $\rho = 1 M\Omega$
 $V = 3$
6C8 (0)
BF + BF
 $S = 1,6$
 $\rho = 22,500$
 $V = -4,5$
 $I = 3,2$
6CD6 (0)
P(T)
 $S = 7,7$
 $\rho = 7,200 \Omega$
 $V = -30$
6CG6 (M)
HF
 $S = 2$
 $\rho = 0,72 M\Omega$
 $V = -6$


6C4 = EC90
 6CA4 = EZ81
 6CA7 = EL34
 6CB6 = 6CF6
 6CD7 = EM34
 6CF8 = EF86
 6CJ5 = EF41

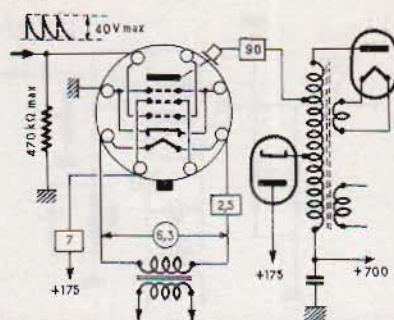
6CH6 (N)
HF(T)

S = 11
P = 50 kΩ
V = -4,5



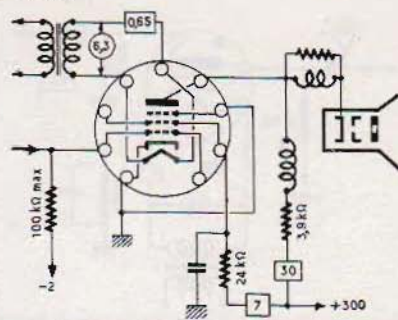
6CL5 (D)
P(T)

S = 5,5
P = 5000
V = 0



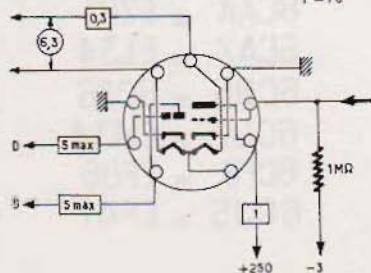
6CL6 (N)
VF(T)

S = 11
P = 0,15 MΩ
V = -3



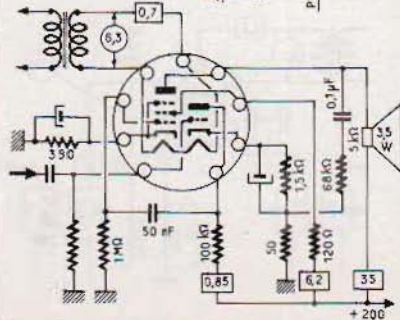
6CN7 (N)
D+VF(T)

S = 12
P = 58000
V = -1
H = 70

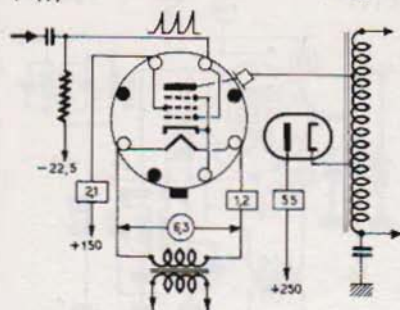


6CN8 (N)
BF(T)

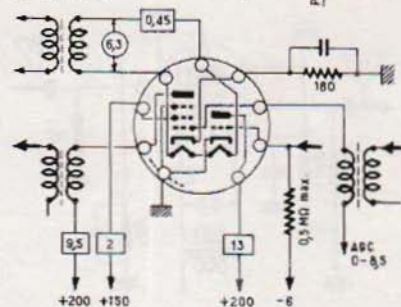
TRIODE S = 4,9
P = 12 kΩ
V = -12
H = 50
PENTHODE S = 6,4
P = 20 kΩ
V = -16



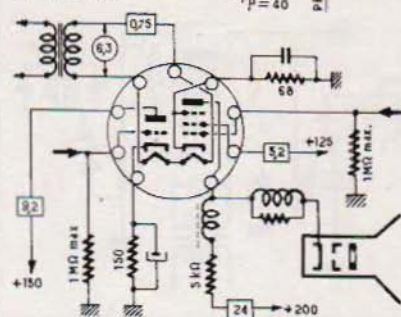
6CJ6 = EL81
6CK5 = EL41
6CK6 = EL83
6CM5 = EL36
6CN6 = EL38
6CQ6 = EF92

6CU6 ①
P (T)
 $S = 5,5$
 $P = 20 \text{ kD}$
 $V = -22,5$
6CU8 ①
HF+VF(T)

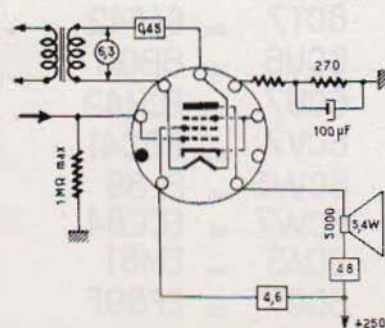
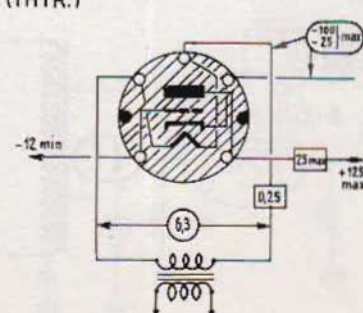
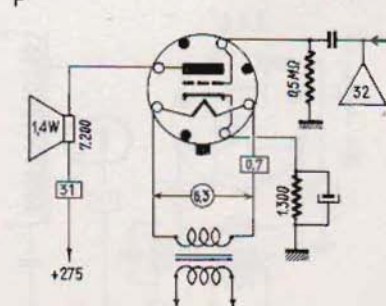
TRIODE	$S = 3,3$ $P = 5750$ $V = -6$	PENTHODE	$S = 6,2$ $P = 0,3 \text{ MD}$ $V = -2$
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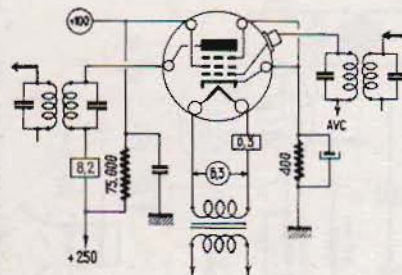
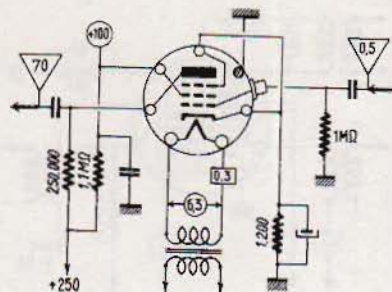
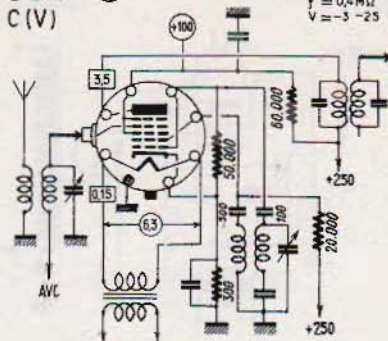
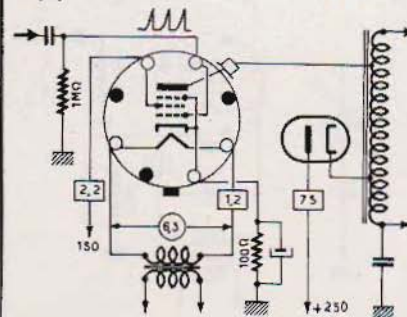
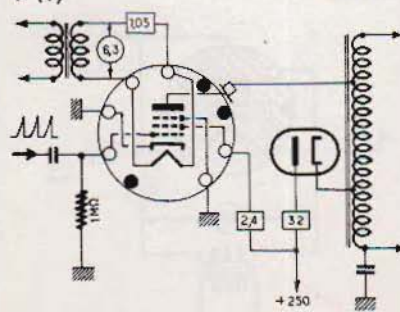
6CX8 ①
VF+BF(T)

TRIODE	$S = 4,8$ $P = 6700$ $V = -1,4$ $H = 40$	PENTHODE	$S = 10$ $P = 70000$ $V = -2$
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6CZ5 ①

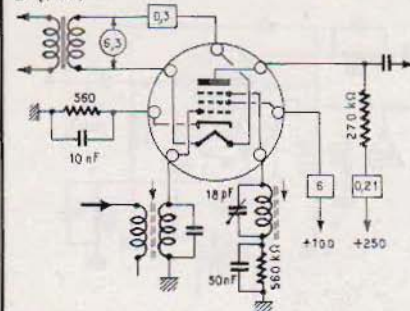
 $S = 4,8$
 $P = 73.000$
 $V = -14$
6D4 ①
(THYR.)6D5 ①
P
 $S = 2,1$
 $P = 2.250$
 $V = -40$


6D6 (U5)
HF (V)
 $S = 1,6$
 $\rho = 0,8 \text{ M}\Omega$
 $V = -3 - 50$
6D7 (6C6) (0)
BF
 $S = 1,2$
 $\rho = 1 \text{ M}\Omega$
 $V = -3$
6D8 (0)
C (V)
 $S_c = 0,55$
 $\rho = 0,4 \text{ M}\Omega$
 $V = -3 - 25$
6DQ6A (0)
P (T)
 $S = 6,6$
 $\rho = 20 \text{ k}\Omega$
 $V = -22,5$
6DR6 (N)
P (T)
 $S = 4,6$
 $\rho = 15 \text{ k}\Omega$
 $V = -38,5$


6CS6	=	EH90
6CT7	=	EAF42
6CU6	=	6BQ6
6CU7	=	ECH42
6CV7	=	EBC41
6CW5	=	EL86
6CW7	=	ECC84
6DA5	=	EM81
6DG7	=	EF89F

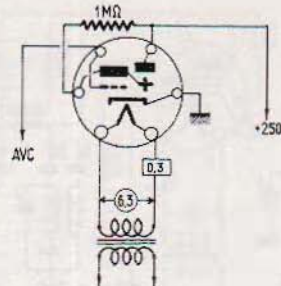
6DT6 (M)
D (FM)

$S = 0,8$
 $P = 0,15 \text{ M}\Omega$
 $V =$



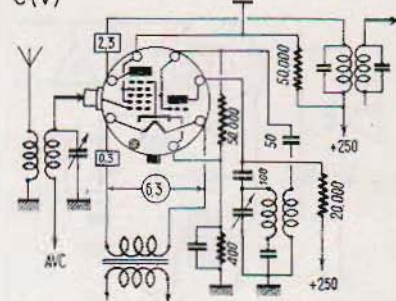
6E5 (US)
I

$V = 0-8$



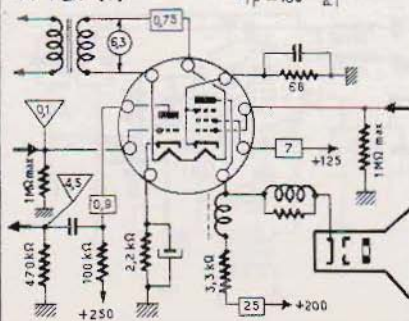
6E8 (O)
C (V)

$S = 0,85$
 $P = 1,2 \text{ M}\Omega$
 $V = -2-21$



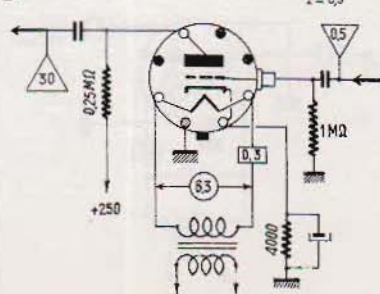
6EB8 (N)
VF + BF (T)

TRIODE $S = 2,7$
 $P = 570,000$
 $V = -2$
PENTHODE $S = 12,5$
 $P = 75,000$
 $V = -2,2$



6F5 (O)
BF

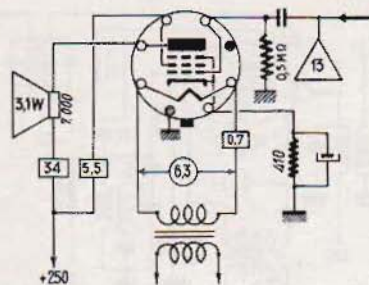
$S = 1,5$
 $P = 68,000$
 $V = -2$
 $I = 0,9$



6DA6 = EF89
6DC8 = EBF89
6DJ8 = ECC88
6DL5 = EL95
6DR8 = EBF83
6DS8 = ECH83
6DU6 = EM85
6DX8 = ECL84
6DY5 = EL82

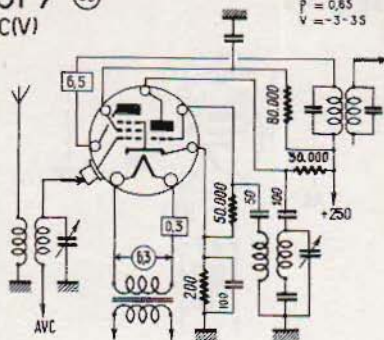
6F6 ①

P

 $S = 2,5$
 $P = 80,000$
 $V = -16,5$


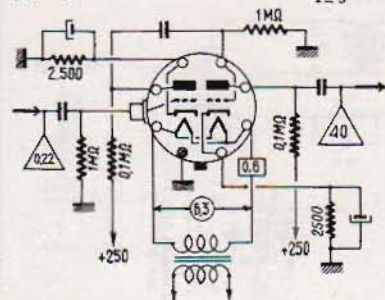
6F7 ①

C(V)

 $S_c = 0,350$
 $P = 0,85$
 $V = -3-35$


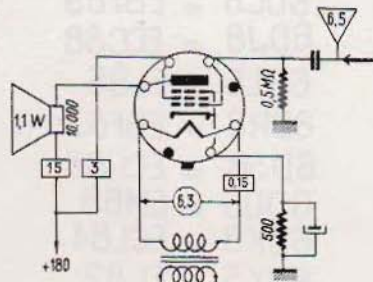
6F8 (2x6J5) ①

BF + BF

 $S = 2,6$
 $P = 7,700$
 $V = -8$
 $I = 9$


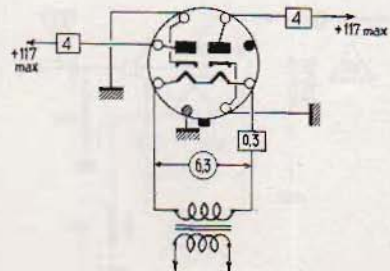
6G6 ①

P

 $S = 2,3$
 $P = 0,175 M\Omega$
 $V = -9$


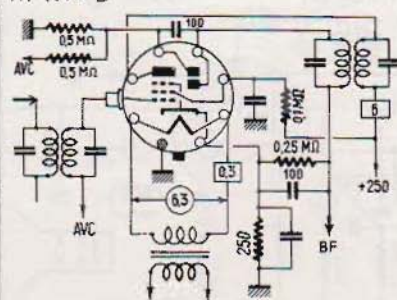
6H6 ①

D



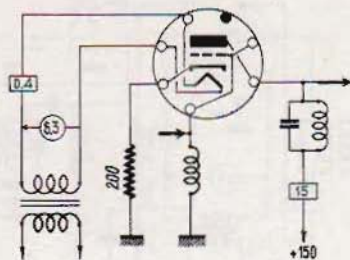
6H8 ①

HF (V) + D

 $S = 1,8$
 $P = 1,2 M\Omega$
 $V = -3-22$


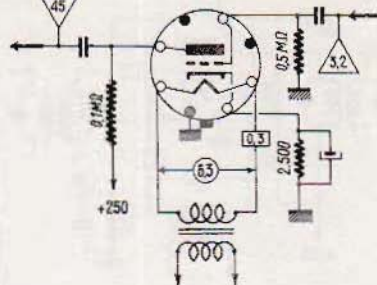
6J4 (M)
HF (T)

$S = 12$
 $\mu = 4500$
 $V = -3$



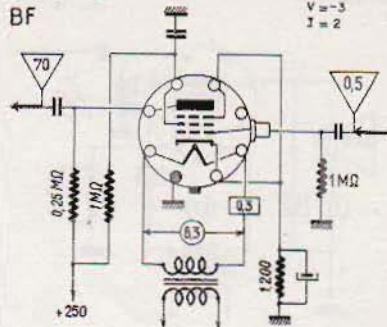
6J5 (O)
BF

$S = 2.6$
 $\mu = 7700$
 $V = -8$
 $I = 9$



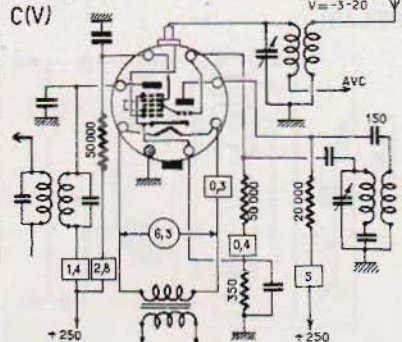
6J7 (O)
BF

$S = 1.22$
 $\mu = 15000$
 $V = -3$
 $I = 2$



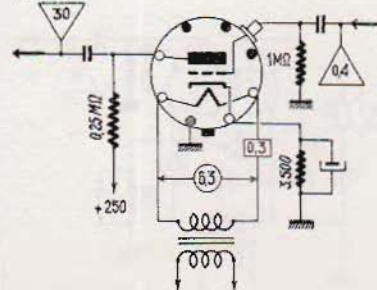
6J8 (O)
C(V)

$S = 0.29$
 $\mu = 4 \text{ M}\Omega$
 $V = -3-20$



6K5 (O)
BF

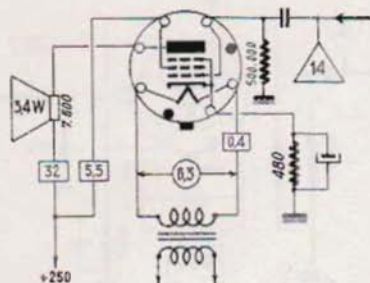
$S = 14$
 $\mu = 50000$
 $V = -3$



6ER5 = EC95
6ES6 = EF 97
6ES8 = ECC189
6ET6 = EF 98
6FG6 = EM84

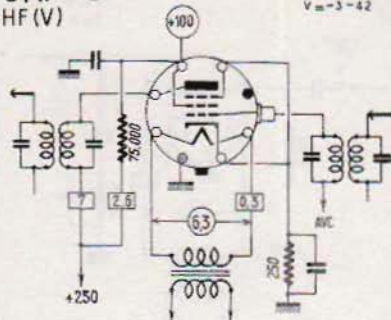
6K6 ①

P

 $S = 2,3$
 $P = 68.000$
 $V = -18$


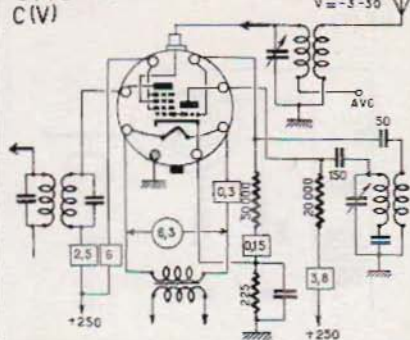
6K7 ①

HF (V)

 $S = 1,45$
 $P = 0,8 \text{ M}\Omega$
 $V = -3 - 42$


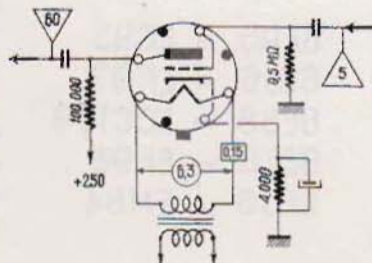
6K8 ①

C (V)

 $S = 0,35$
 $P = 0,6 \text{ M}\Omega$
 $V = -3 - 30$


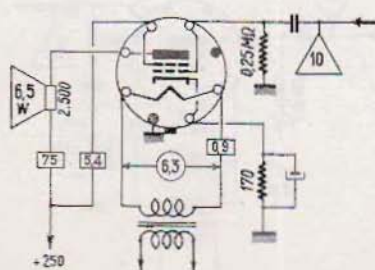
6L5 ①

BF

 $S = 1,9$
 $P = 9.000$
 $V = -9$
 $I = 0$


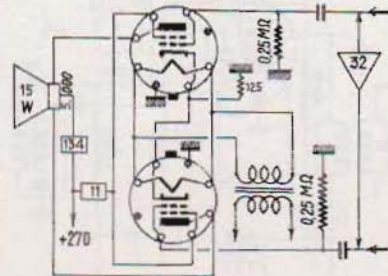
6L6 ①

P

 $S = 6$
 $P = 22.500$
 $V = -14$


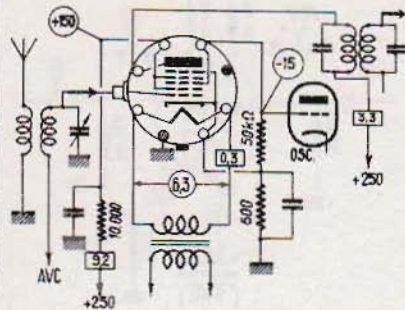
6L6 ①

P (Cl, AB)



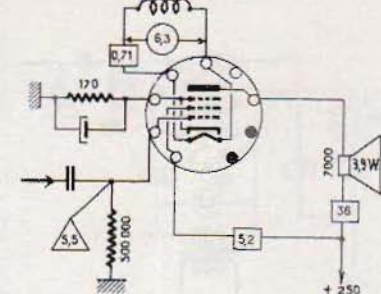
6L7 (V)

$S \approx 0,35$
 $P = 1,5 \text{ M}\Omega$
 $V = -6 - 45$



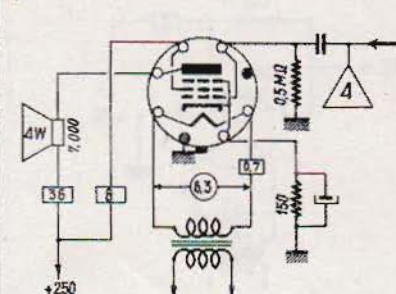
6M5 (N) P

$S \approx 10$
 $P = 40,000$
 $V = -7$



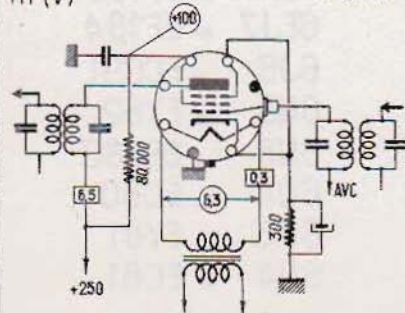
6M6 (V) P

$S = 9,5$
 $P = 50,000$
 $V = -6$



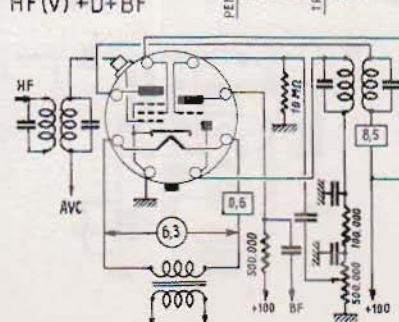
6M7 (V) HF(V)

$S = 2,8$
 $P = 1,5 \text{ M}\Omega$
 $V = -2,5 - 26$



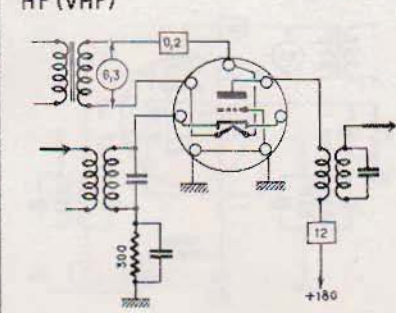
6M8 (V) HF(V) + D+BF

PENTHODE $S = 1,9$
 $V = -0,2$
 $V = -3 - 20$
 TRIODE $S = 1,1$
 $V = -1$
 $V = 91,000$
 $V = -1$



6N4 (M) HF (VHF)

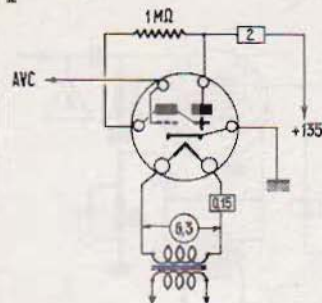
$S = 6$
 $P = 5,400$
 $V = -3,5$



6N5 (S)

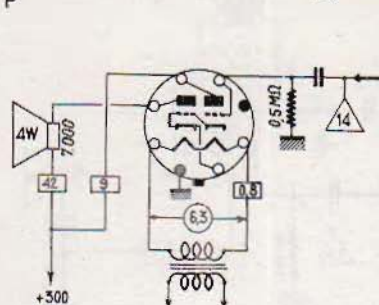
V = 0 -15,5

I



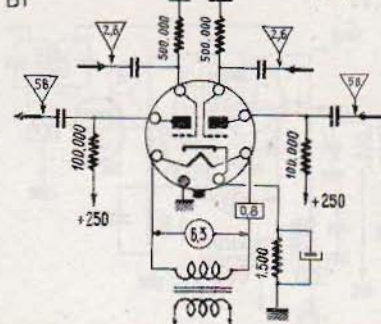
6N6 (O)

P

 $S = 2A$
 $P = 24.000$
 $V = 0$


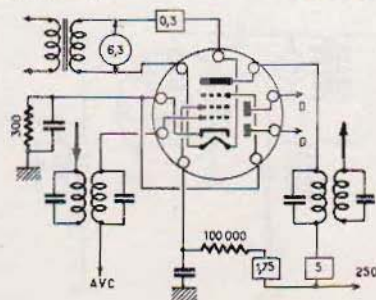
6N7 (O)

BF

 $S = 1,5$
 $P = 22.000$
 $V = -5$


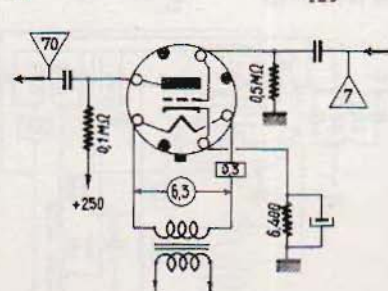
6N8 (N)

HF (V) + D

 $S = 2,2$
 $P = 1,6MΩ$
 $V = -2 -20$


6P5 (O)

BF

 $S = 1450$
 $P = 9.500$
 $V = -13,5$
 $I = 5$


6EH7 = EF183

6EJ7 = EF184

6J6 = ECC91

6N3 = EY82

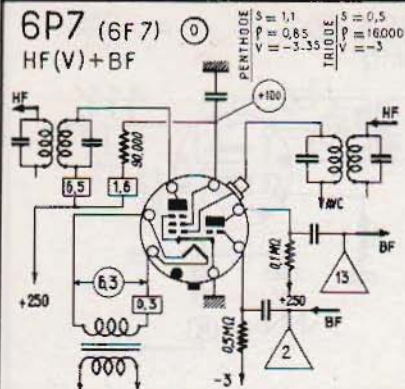
6N8 = EBF80

6Q4 = EC80

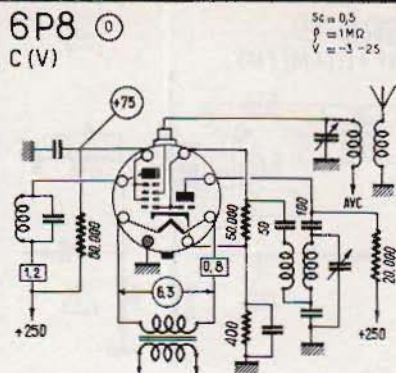
6R3 = EY81

6R4 = EC81

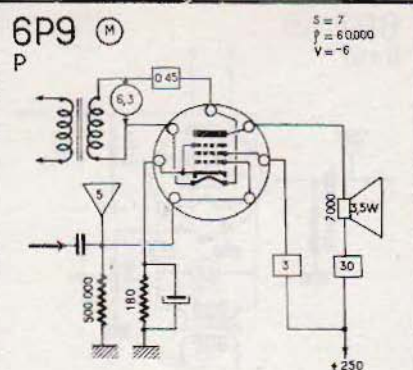
6P7 (6F7) ①
HF(V)+BF



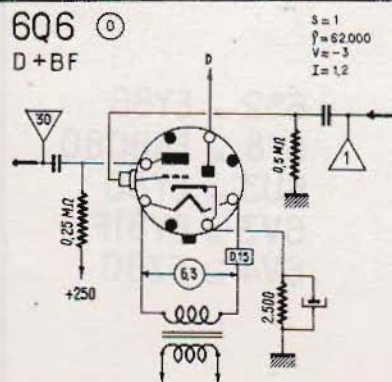
6P8 ①
C(V)



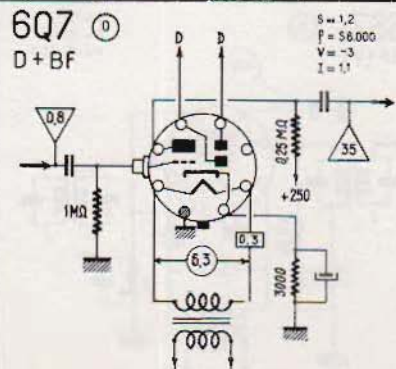
6P9 (M)
P



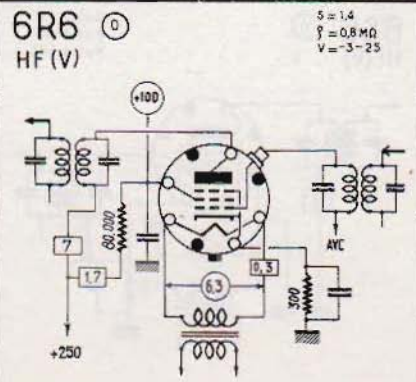
6Q6 ①
D+BF



6Q7 ①
D+BF

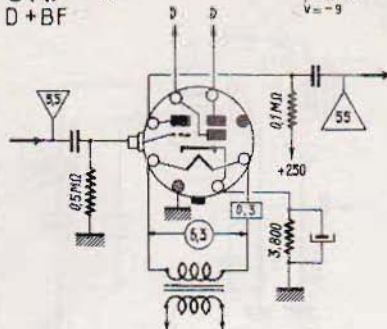


6R6 ①
HF(V)



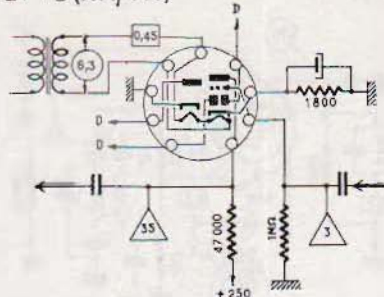
6R7 (0)
D+BF

$S = 1,9$
 $P = 8,500$
 $V = -9$



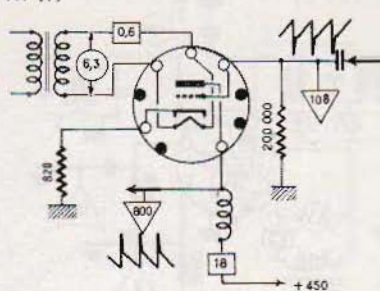
6R8 (N)
BF+D (AM/FM)

$S = 1,9$
 $P = 8,500$
 $V = -5$



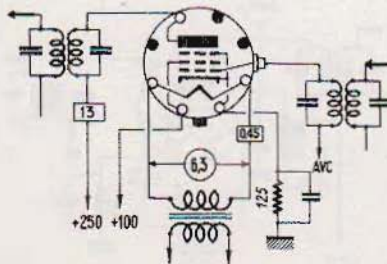
6S4 (N)
HF(T)

$S = 4,5$
 $P = 3,600$
 $V = -8$



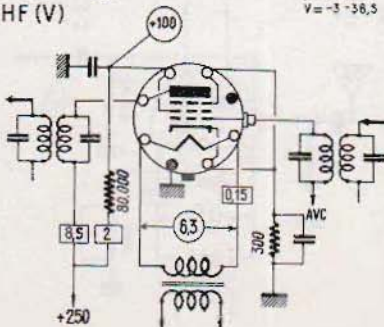
6S6 (0)
HF(V)

$S = 4$
 $P = 0,35 M\Omega$
 $V = -2 - 25$



6S7 (0)
HF(V)

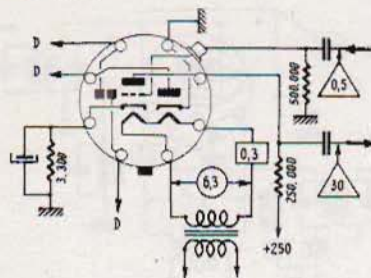
$S = 1,7$
 $P = 1 M\Omega$
 $V = -3 - 36,5$



6S2 = EY86
6T8 = EABC80
6U3 = EY80
6V3 = EY81F
6V4 = EZ80

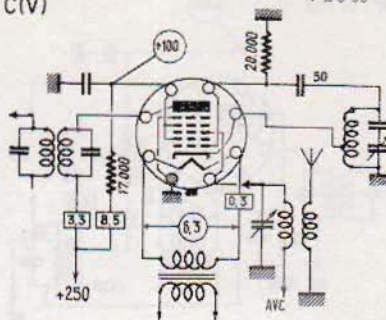
6S8 ①

D+BF (FM)

 $S = 1,1$
 $p = 91,000$
 $V = -1$


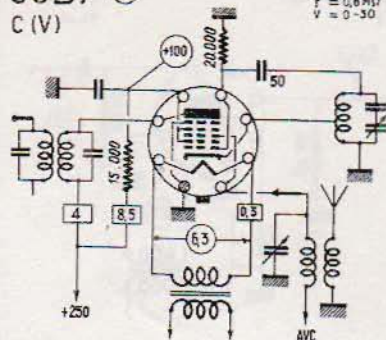
6SA7 ①

C (V)

 $S = 0,45$
 $p = 1 M\Omega$
 $V = 0-35$


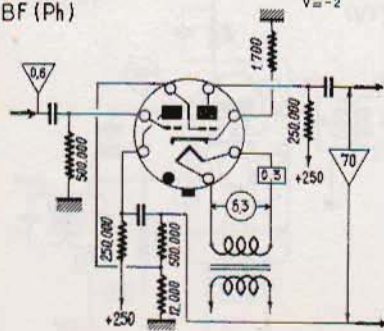
6SB7 ①

C (V)

 $S = 0,88$
 $p = 0,8 M\Omega$
 $V = 0-30$


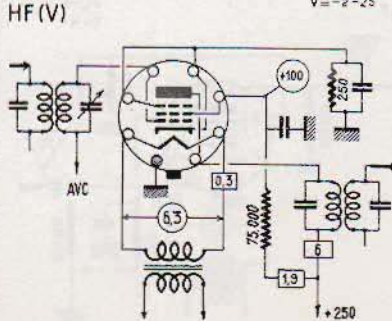
6SC7 ①

BF (Ph)

 $S = 13,25$
 $p = 53,000$
 $V = -2$


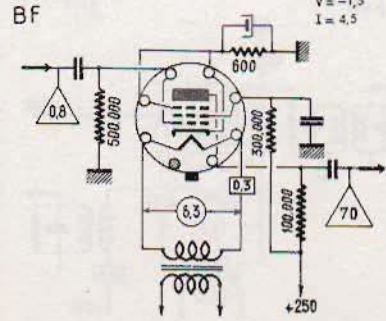
6SD7 ①

HF (V)

 $S = 3,6$
 $p = 1 M\Omega$
 $V = -2-25$


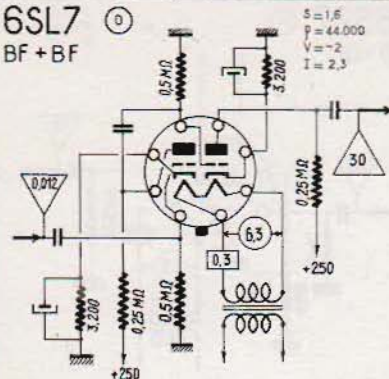
6SE7 ①

BF

 $S = 3,4$
 $p = 1,1 M\Omega$
 $V = -1,5$
 $I = 4,5$


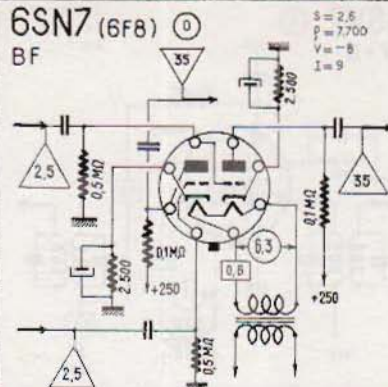
6SL7 ①

BF + BF



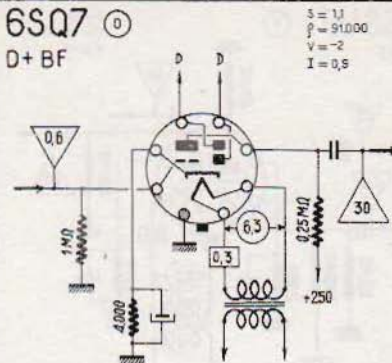
6SN7 (6F8) ①

BF



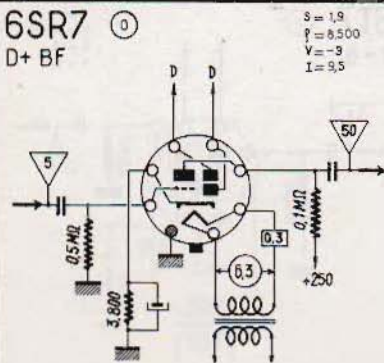
6SQ7 ①

D + BF



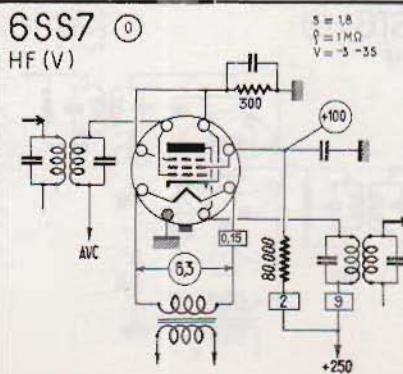
6SR7 ①

D + BF



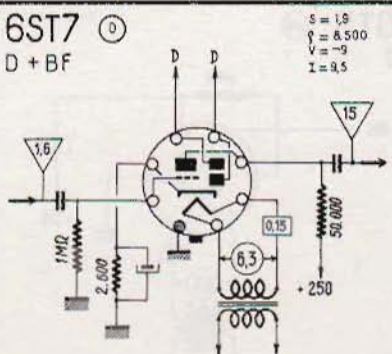
6SS7 ①

HF (V)



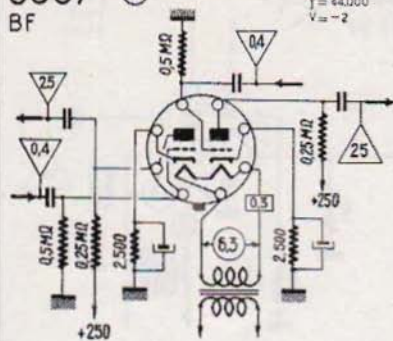
6ST7 ①

D + BF



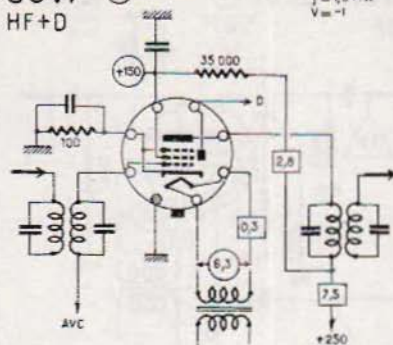
6SU7 ①

BF

 $S = 1,6$
 $\mu = 44.000$
 $V_{in} = -2$


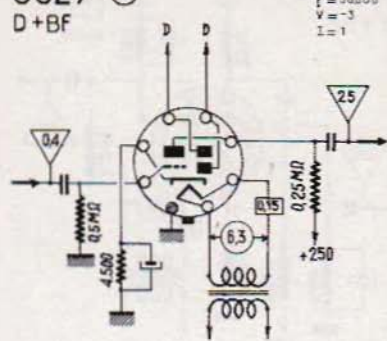
6SV7 ①

HF+D

 $S = 5,6$
 $\mu = 1,5 M\Omega$
 $V_{in} = -1$


6SZ7 ①

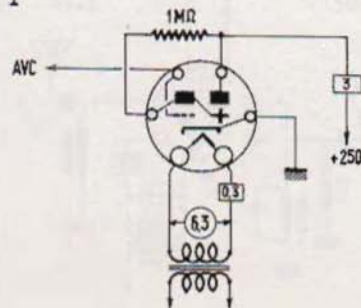
D+BF

 $S = 1,2$
 $\mu = 58000$
 $V_{in} = -3$
 $I = 1$


6T5 ①

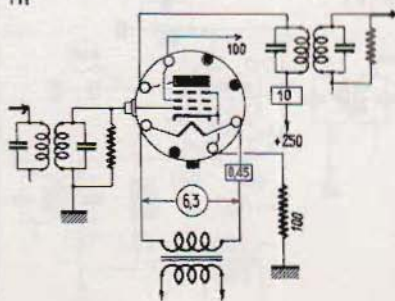
US

I

 $V_{in} = 0-22$


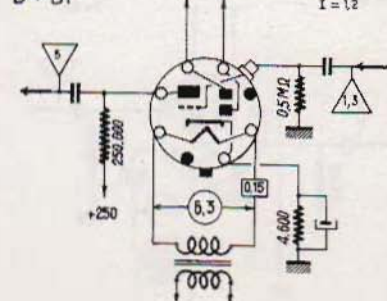
6T6 ①

HF

 $S = 5,5$
 $\mu = 1 M\Omega$
 $V_{in} = -1$


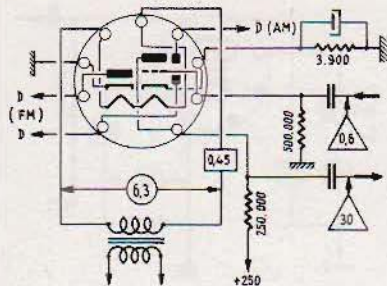
6T7 ①

D+BF

 $S = 1$
 $\mu = 62000$
 $V_{in} = -3$
 $I = 1,2$


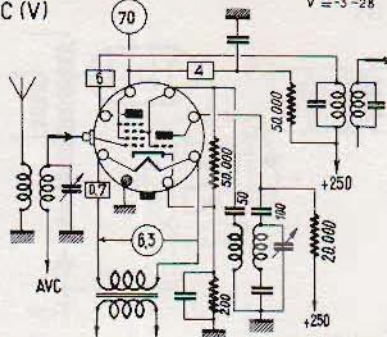
6T8 (AM/FM) (N)

D + BF

 $S = 1,2$
 $P = 58,000$
 $V = -3$


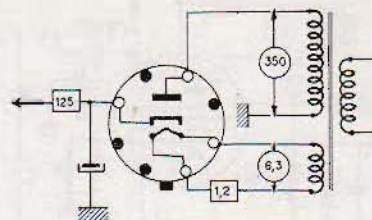
6TH8

C (V)

 $S = 0,8$
 $P = 1M\Omega$
 $V = -3-28$


6U4 (O)

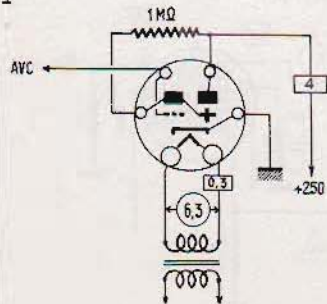
R



6U5/6G5 (US)

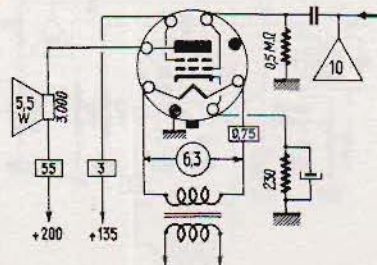
I

V = 0-22



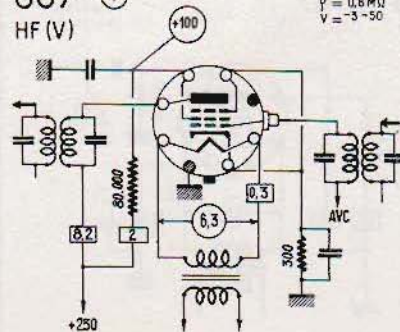
6U6 (O)

P

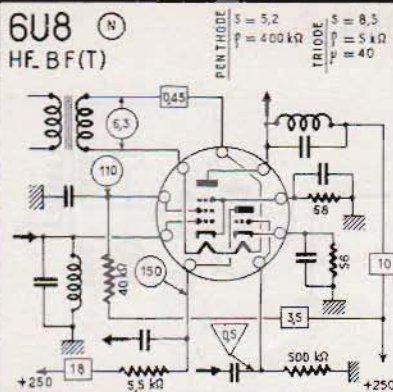
 $S = 5,2$
 $P = 20000$
 $V = -14$


6U7 (O)

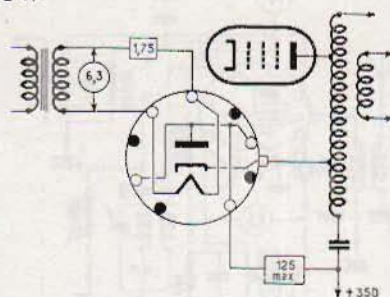
HF (V)

 $S = 1,6$
 $P = 0,6M\Omega$
 $V = -3-50$


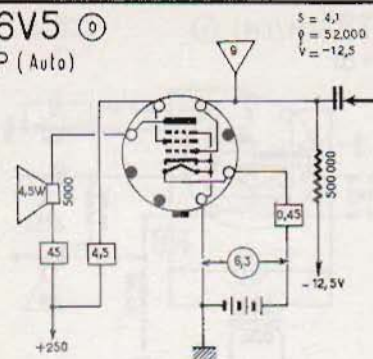
6U8 (N)
HF, BF(T)



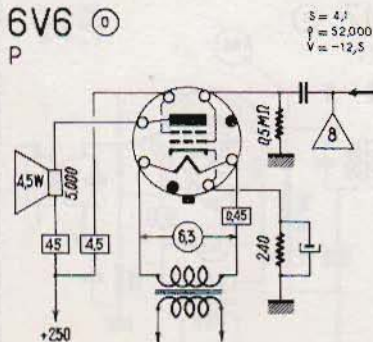
6V3 (N)
D(T)



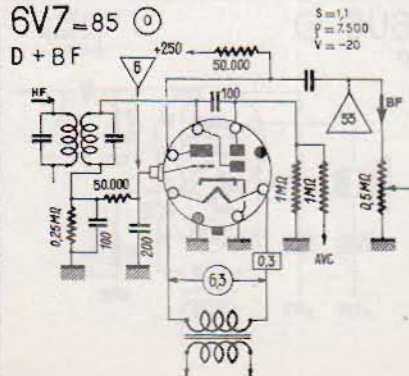
6V5 (O)
P (Auto)



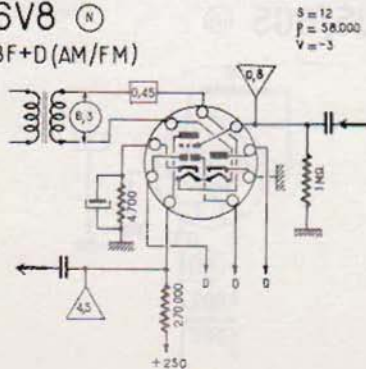
6V6 (O)
P



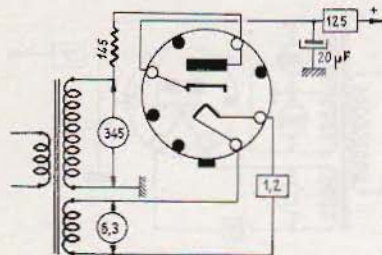
6V7-85 (O)
D + BF



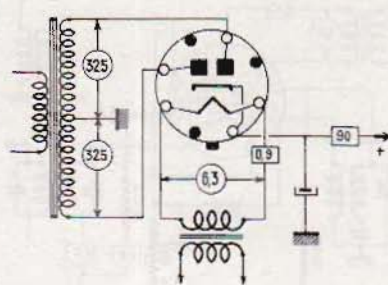
6V8 (N)
BF+D(AM/FM)



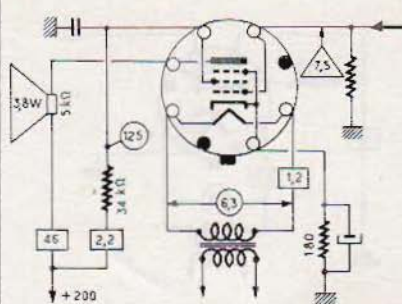
6W4 (T)



6W5 (T)



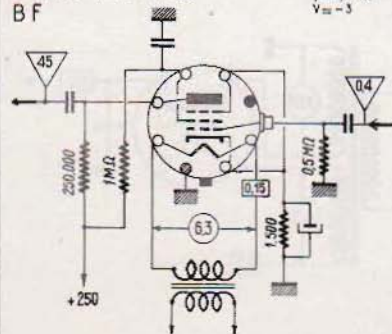
6W6 (T)



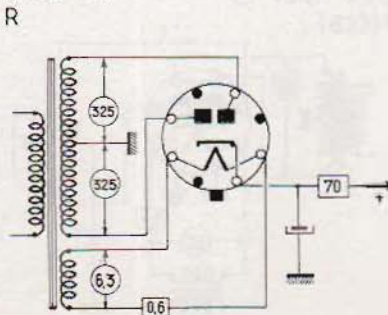
6W7 (6J7) (T)

BF

$S = 1.22$
 $P = 1.5 \text{ M}\Omega$
 $V = -3$



6X5 (T)

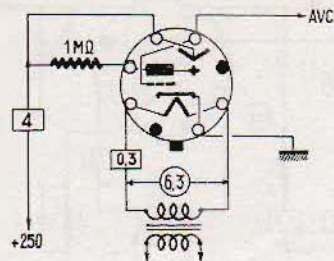


6X2 = EY51
6X4 = EZ90
7AN7 = PCC84

6X6 (6E5) ①

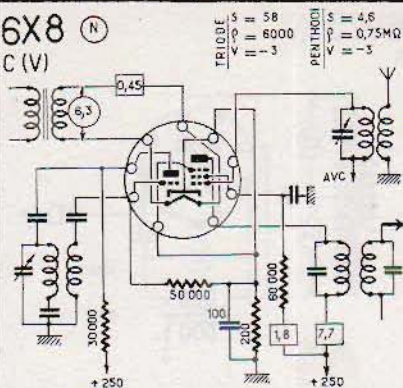
V = 0 - 8

I



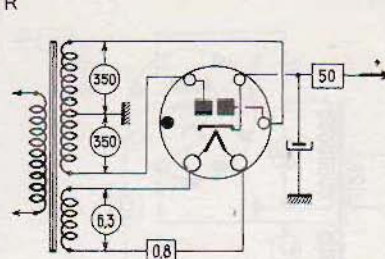
6X8 ①

C (V)



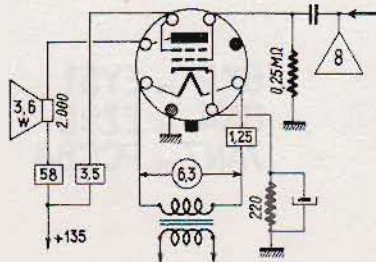
6Y5 ①

R



6Y6 ①

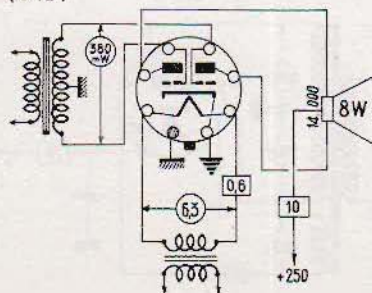
P

S = 7
P = 9300
V = -13.5

6Y7 (79) ①

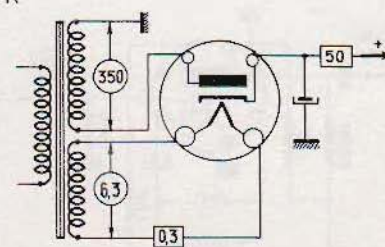
P (C.I.B)

V = 0



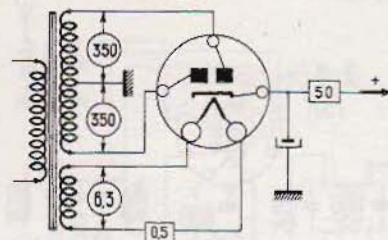
6Z3 ①

R



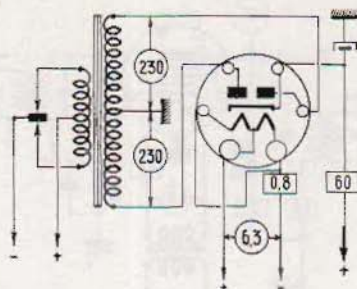
6Z4 (U)

R



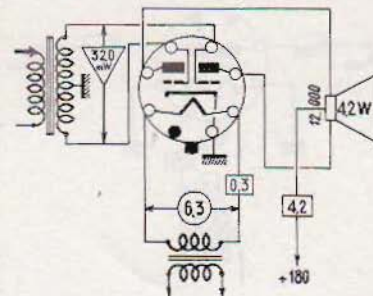
6Z5 (U)

R



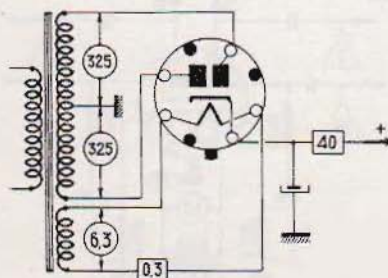
6Z7 (C)

P(CI,B)



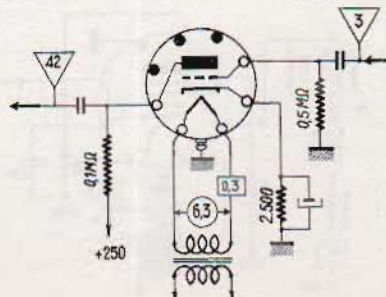
6ZY5 (C)

R



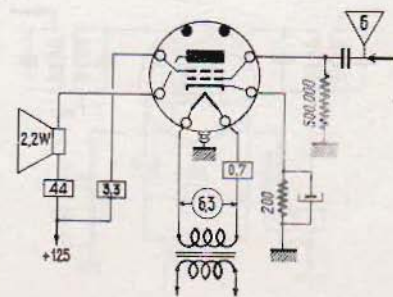
7A4 (6J5) (L)

BF

 $s = 2.6$
 $p = 7.700$
 $v = -6$
 $i = 9$


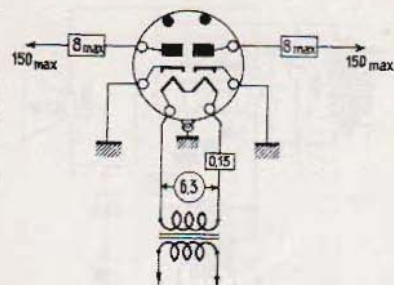
7A5 (L)

P

 $i = 5$
 $p = 17,000$
 $v = -9$


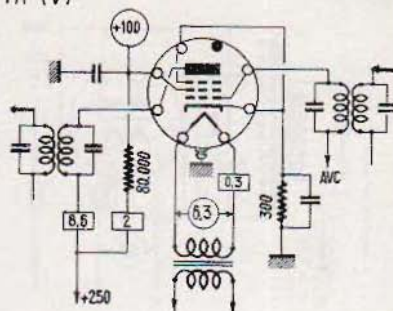
7A6 (6H6) Ⓛ

D



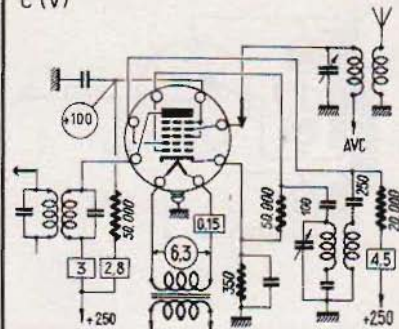
7A7 (6SK7) Ⓛ

HF (V)

 $S = 2$
 $P = 0.8 \text{ M}\Omega$
 $V = -3 \sim -3.5$


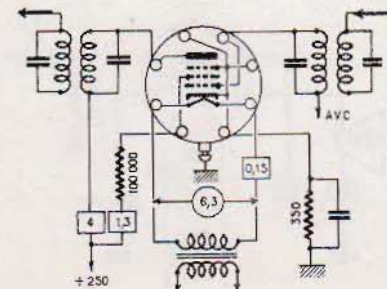
7A8 (6A8) Ⓛ

C (V)

 $S_c = 0.6$
 $P = 0.7$
 $V = -3 \sim -3.5$


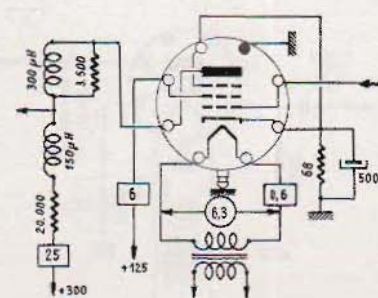
7AB7 Ⓛ

HF

 $S = 1.8$
 $P = 0.5 \text{ M}\Omega$
 $V = -2 \sim -18$


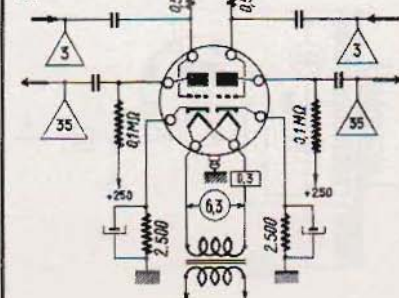
7AD7 Ⓛ

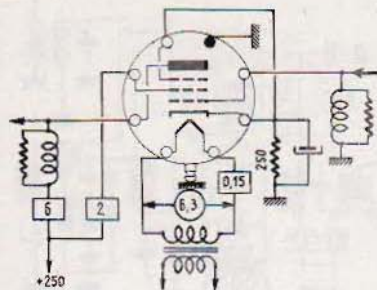
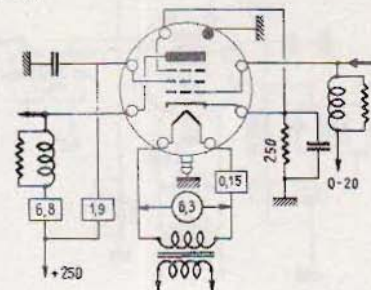
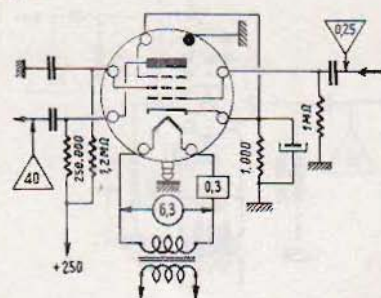
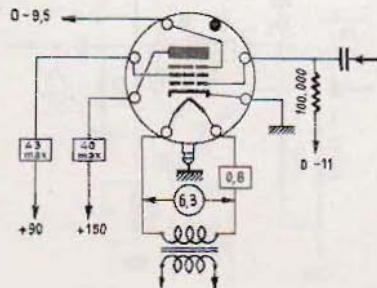
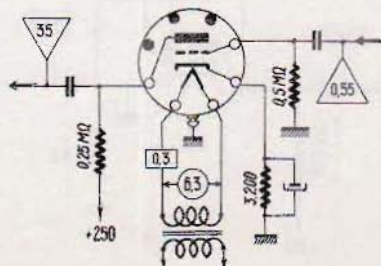
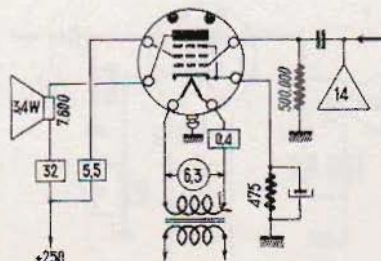
HF (T)

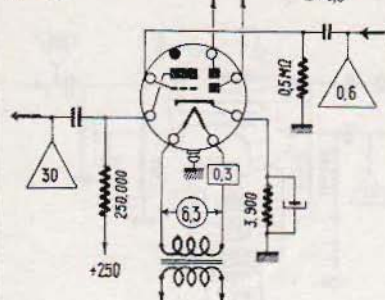
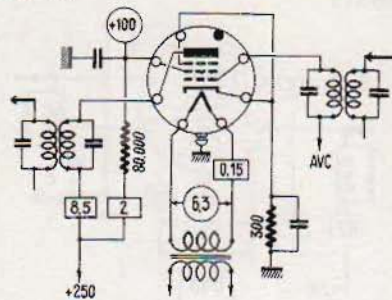
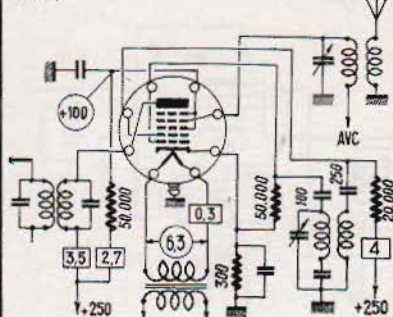
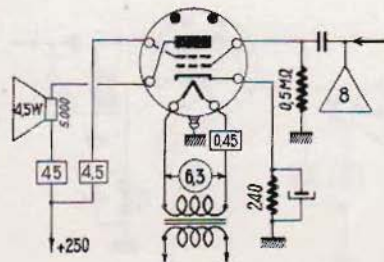
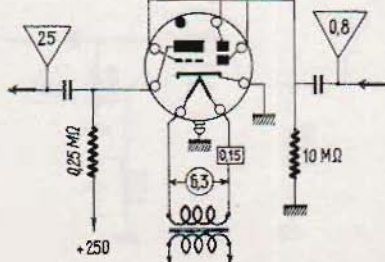
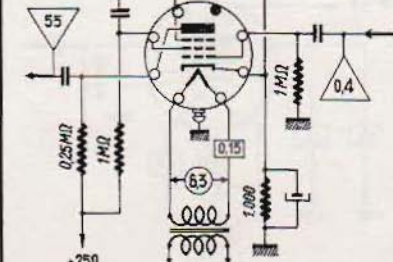
 $S = 9.5$
 $P = 0.3 \text{ M}\Omega$
 $V = -3$


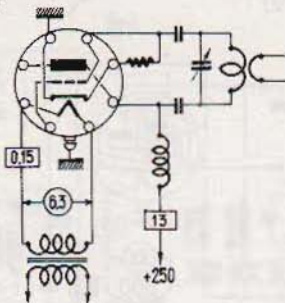
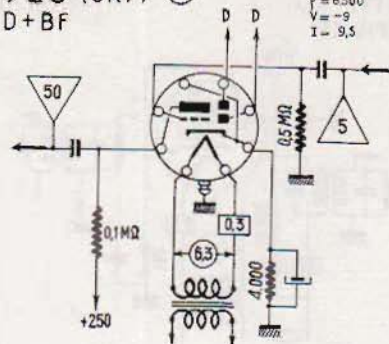
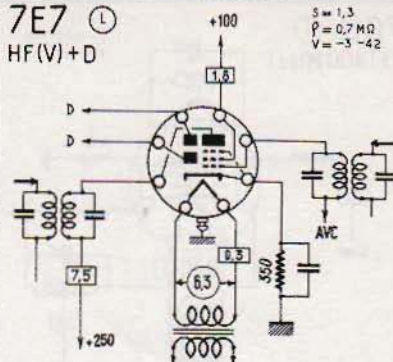
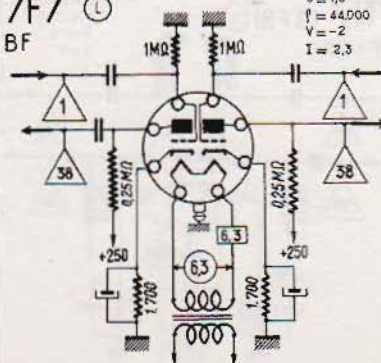
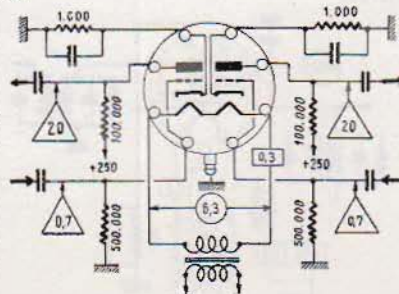
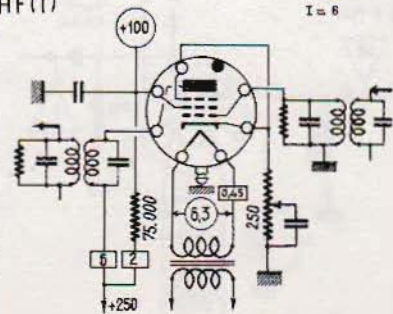
7AF7 Ⓛ

BF

 $S = 2.1$
 $P = 7.600$
 $V = -10$


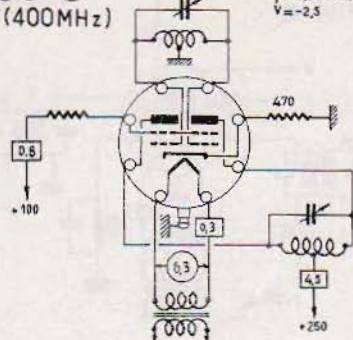
7AG7 (L)
HF (T)
 $S = 4.2$
 $P = 1 \text{ M}\Omega$
 $V = -2$
7AH7 (L)
HF (T)
 $S = 3.3$
 $P = 1 \text{ M}\Omega$
 $V = -2 -30$
7AJ7 (6SJ7) (L)
BF
 $S = 1.57$
 $P = 1 \text{ M}\Omega$
 $V = -3$
7AK7 (L)
HF (T)
 $S = 6.5$
 $P = 11.500$
 $V = 0 - 11$
7B4 (6SF5) (L)
BF
 $S = 1.5$
 $P = 66.000$
 $V = -2$
7B5 (6K6) (L)
P
 $S = 2.3$
 $P = 68.000$
 $V = -18$


7B6 (6SQ7) Ⓛ
D + BF
 $S = 1,1$
 $P = 91,000$
 $V = -2$
 $I = 0,9$
7B7 Ⓛ
HF (V)
 $S = 1,7$
 $P = 0,75 \text{ M}\Omega$
 $V = -3-40$
7B8 Ⓛ
C (V)
 $S_c = 0,55$
 $P = 0,36 \text{ M}\Omega$
 $V = -3-35$
7C5 (6V6) Ⓛ
P
 $S = 4,1$
 $P = 52,000$
 $V = -12,5$
7C6 (75) Ⓛ
D + BF
 $S = 1$
 $P = 0,1 \text{ M}\Omega$
 $V = -1$
 $I = 1,5$
7C7 (6J7) Ⓛ
B F
 $S = 1,3$
 $P = 2 \text{ M}\Omega$
 $V = -3$
 $I = 2$


7E5 (L)
O (VHF)7E6 (6R7) (L)
D+BF
 $S = 1.9$
 $P = 6.500$
 $V = -9$
 $I = 9.5$
7E7 (L)
HF(V)+D
 $S = 1.3$
 $P = 0.7 M\Omega$
 $V = -3 -42$
7F7 (L)
BF
 $S = 1.6$
 $P = 44.000$
 $V = -2$
 $I = 2.3$
7F8 (L)
BF
 $S = 3.3$
7G7 (L)
HF(T)
 $S = 4.5$
 $P = 0.8 M\Omega$
 $V = -2$
 $I = 8$


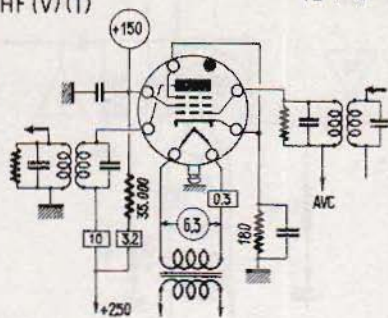
7G8 (L)
HF(400MHz)

$S = 2,7$
 $\rho = 0,2-2,5 \text{ M}\Omega$
 $V = -2,5$



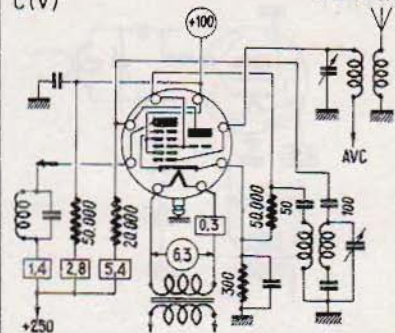
7H7 (L)
HF (V) (T)

$S = 4,2$
 $\rho = 0,8 \text{ M}\Omega$
 $V = -1 -19$



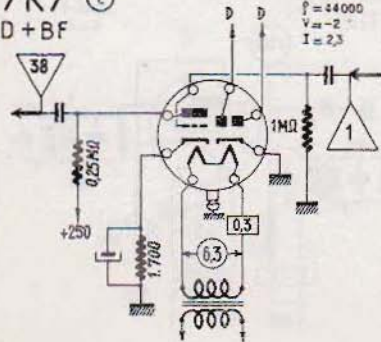
7J7 (L)
C (V)

$S_c = 0,3$
 $\rho = 1,5 \text{ M}\Omega$
 $V = -3 -20$



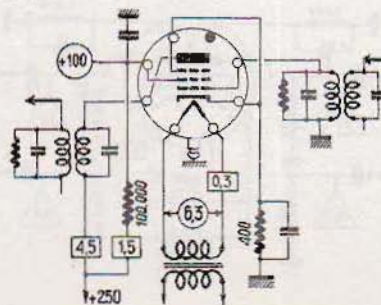
7K7 (L)
D + BF

$S = 1,6$
 $\rho = 44000$
 $V_a = -2$
 $I = 2,3$



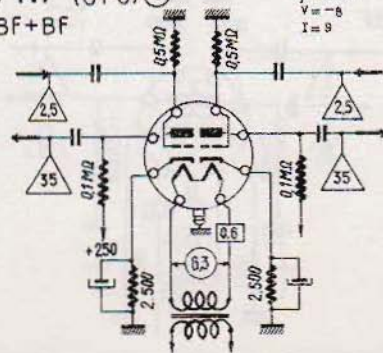
7L7 (L)
HF (T)

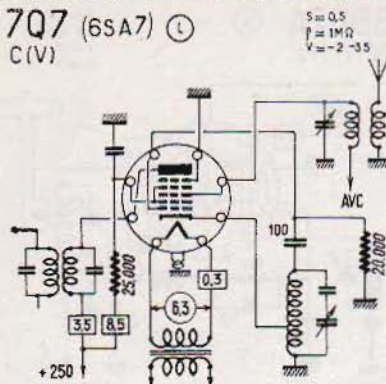
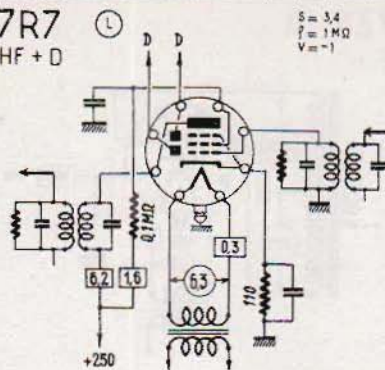
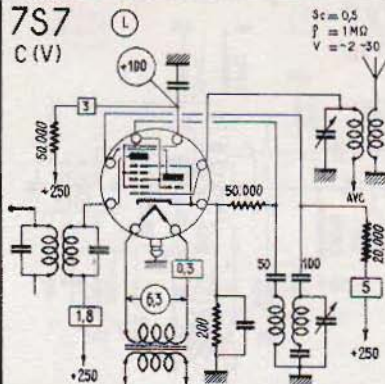
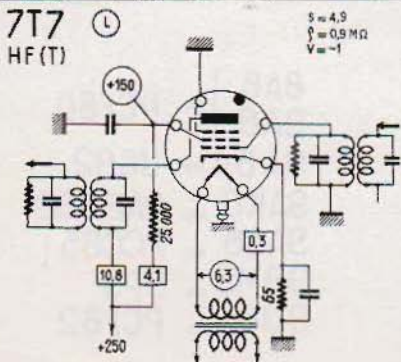
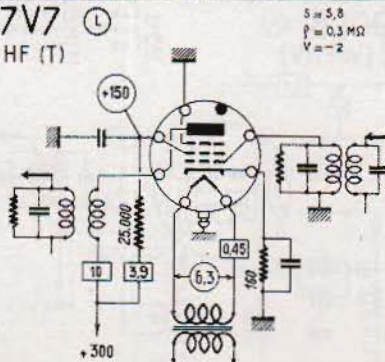
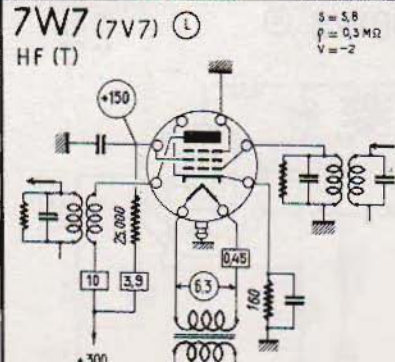
$S = 3,1$
 $\rho = 1 \text{ M}\Omega$
 $V = -1,5$



7N7 (6F8) (L)
BF + BF

$S = 2,5$
 $\rho = 7,700$
 $V = -8$
 $I = 9$

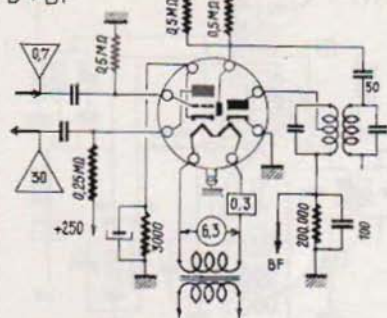


7Q7 (6SA7) (L)
C(V)7R7
HF + D7S7
C(V)7T7 (L)
HF (T)7V7 (L)
HF (T)7W7 (7V7) (L)
HF (T)

7X7

(L)

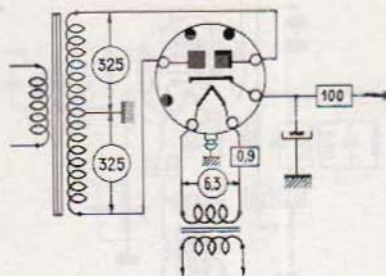
D+BF

 $S = 1,5$
 $P = 87000$
 $V = -1$


7Z4

(L)

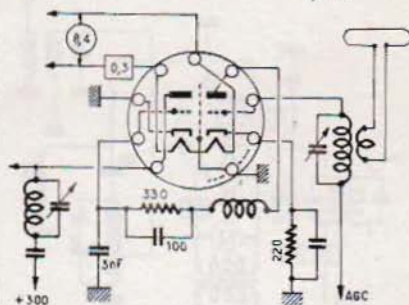
R



8BQ7A

(N)

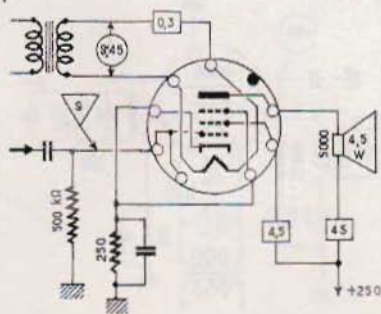
HF(V)(T)

 $S = 6,4$
 $P = 61k\Omega$
 $V = -2$
 $\mu = 39$


9BW6

(N)

P

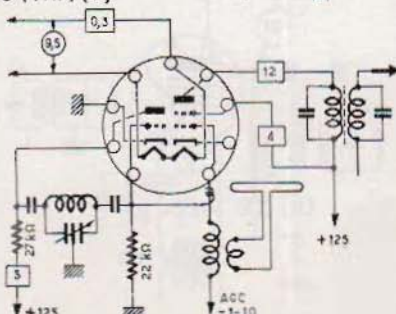
 $S = 4,1$
 $P = 52k\Omega$
 $V = -12,5$


9CL8

(N)

C(VHF)(V)

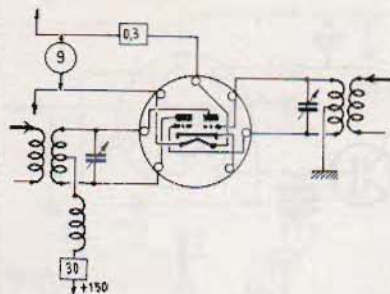
TRIODE	$S = 8$	$V = 5000$	$V = 0$
TELETYPE	$S = 3,6$	$P = 0,1M\Omega$	$V = -1$



8A8 } = PCF80
 9A8 }
 9AB4 = UC92
 9AK8 = PABC80
 9AQ8 = PCC85
 9BM5 = 9P9
 9U8 = PCF82

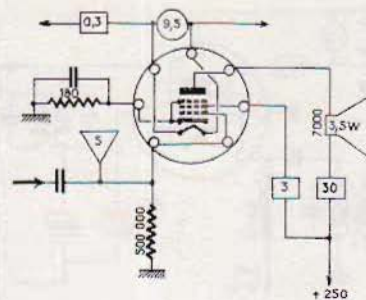
9J6 (M)

HF (T)

 $S = 5,3$
 $\rho = 7,100$
 $V = -10$


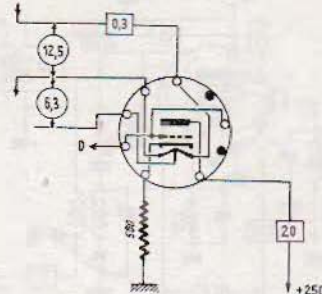
9P9/9BM5 (M)

P

 $S = 7$
 $\rho = 60,000$
 $V = -6$


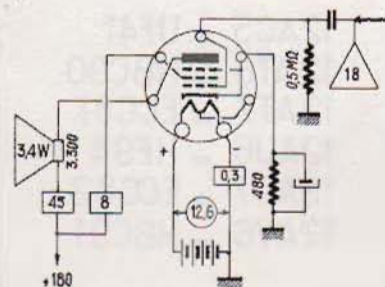
12A4 (N)

BF (T)

 $S = 7,8$
 $\rho = 2,560$
 $V = -9$


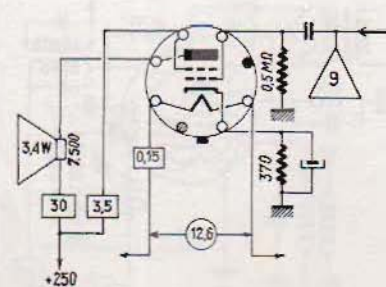
12A5 (US)

P

 $S = 2,4$
 $\rho = 35,000$
 $V = -2,5$


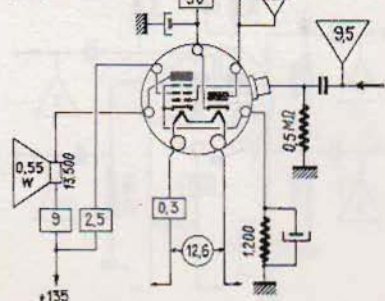
12A6 (O)

P

 $S = 5$
 $\rho = 70,000$
 $V = -12,5$


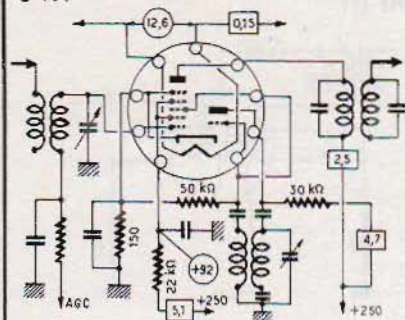
12A7 (US)

R+P

 $S = 0,9$
 $\rho = 0,1 M\Omega$
 $V = -13,5$


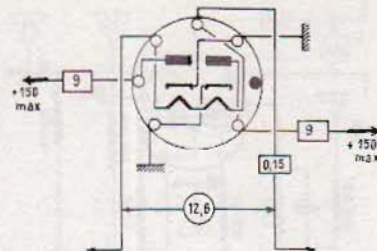
12AJ8 (N)

C (V)

 $S_c = 0,7$
 $\rho = 1 \text{ M}\Omega$
 $V = -2-20,5$


12AL5 (6AL5) (M)

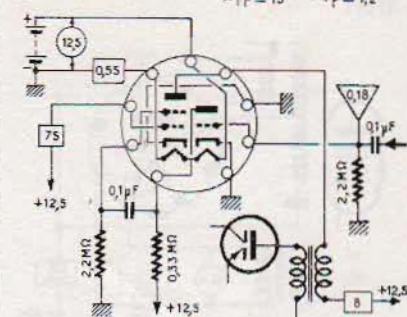
D



12AL8 (N)

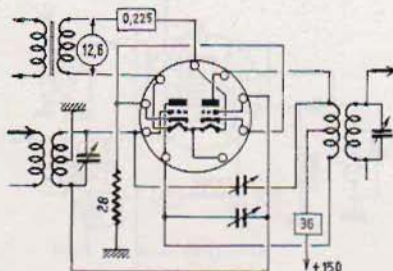
BF

TRIODE		TETRODE	
$S = 1$	$S = 15$	$\rho = 13000$	$\rho = 480 \Omega$
$V = 0,9$	$V = 0,5$	$V = 0,9$	$V = 0,5$
$V = 13$	$V = 7,2$	$V = 13$	$V = 7,2$



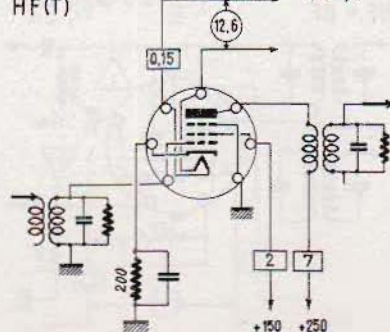
12AV7 (N)

HF (T)

 $S = 6,5$
 $\rho = 4800$
 $V = -1$


12AW6 (M)

HF (T)

 $S = 5$
 $\rho = 0,8 \text{ M}\Omega$
 $V = -1,5$


12AJ7 = HCH81

12AQ5 = 6AQ5 (12v)

12AY6 = 12AT6

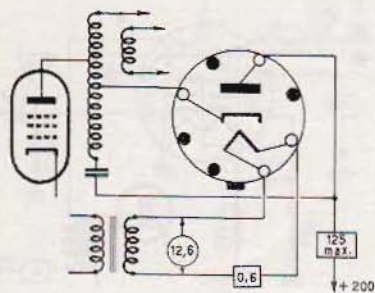
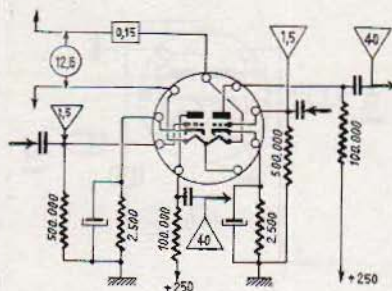
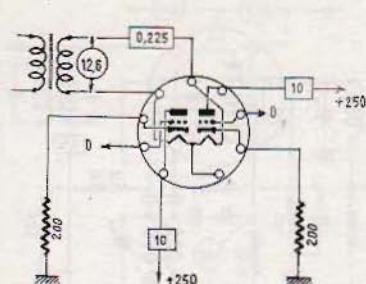
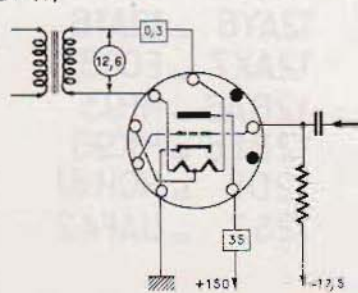
12AX7 = ECC83

12BA6 = HF93

12BE6 = HK90

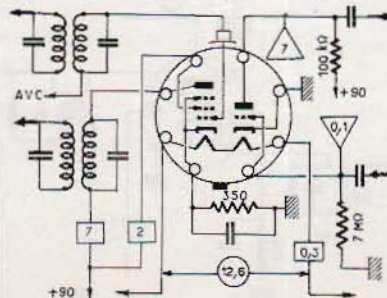
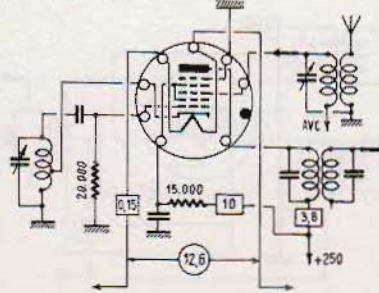
12D8 = HCH81

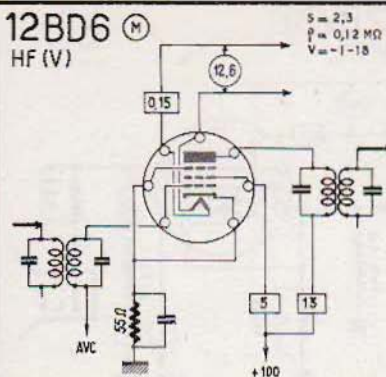
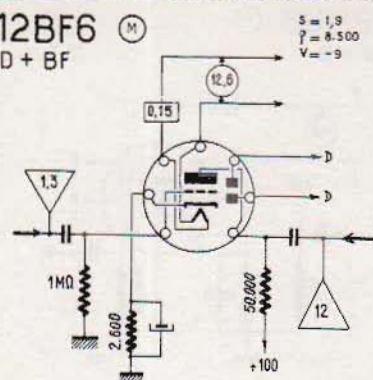
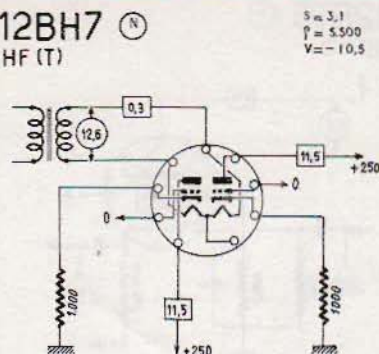
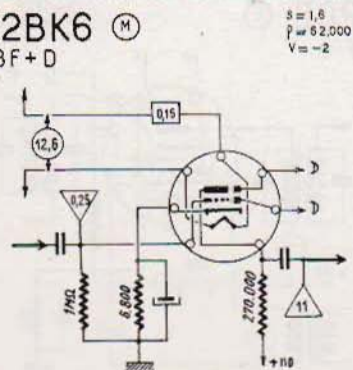
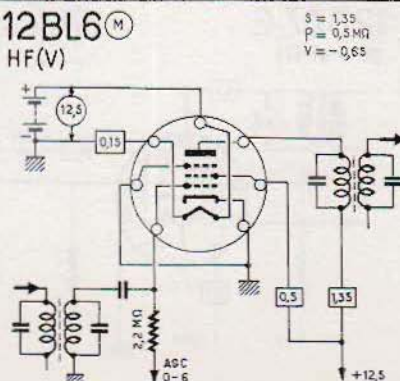
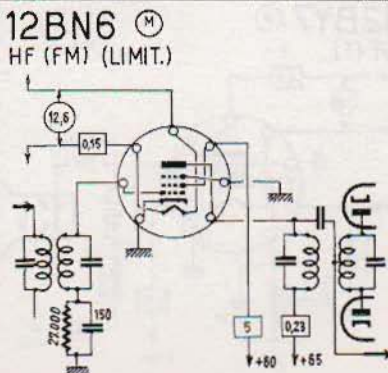
12S7 = UAF42

12AX4 (D)
D (T)12AY7 (N)
BF
 $S = 1.75$
 $P = 43.000$
 $V = -4$
12AZ7 (N)
HF (T)
 $S = 5.5$
 $P = 10.900$
 $V = -2$
12B4 (N)
BF (T)
 $S = 6.5$
 $V = -17.5k\Omega$
 $\mu = 6.5$
12B8 (D)
HF + BF

PENTHODE
 $S = 1.8$
 $P = 200k\Omega$
 $V = -35$

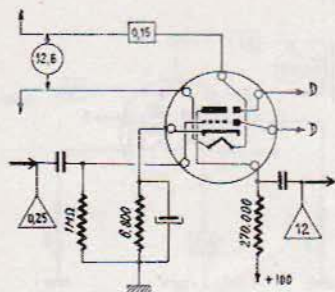
TRIODE
 $S = 2.4$
 $P = 37k\Omega$
 $V = 0$

12BA7 (N)
C (V) 100MHz
 $S_c = 0.95$
 $P = 1M\Omega$
 $V = 0-20$


12BD6 (M)
HF (V)

12BF6 (M)
D + BF

12BH7 (N)
HF (T)

12BK6 (M)
BF + D

12BL6 (M)
HF (V)

12BN6 (M)
HF (FM) (LIMIT.)


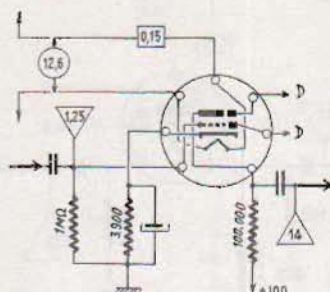
12BT6 (M)

BF + D

 $S = 1,3$
 $P = 54,000$
 $V_m = -1$


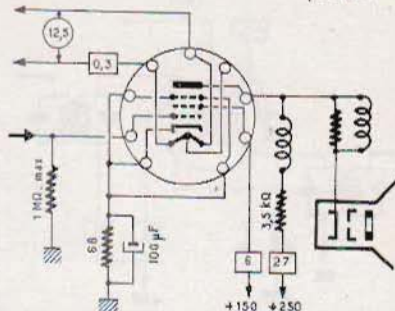
12BU6 (M)

BF + D

 $S = 1,5$
 $P = 85,000$
 $V_m = -9$


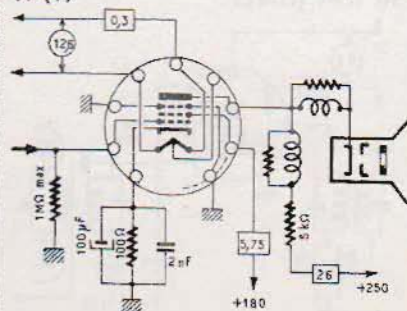
12BV7 (N)

VF (T)

 $S = 13$
 $P = 85,000$
 $V_m = -2,2$
 $\mu = 1,000$


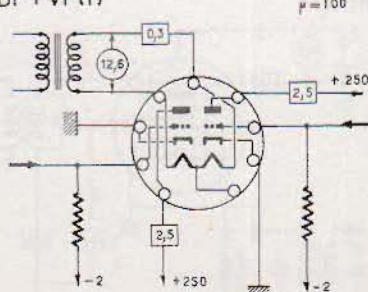
12BY7 (N)

VF (T)

 $S = 11$
 $P = 93 \text{ k}\Omega$
 $V = -3$


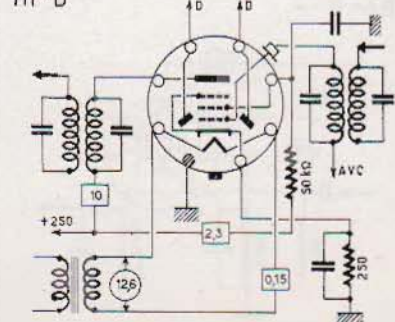
12BZ7 (N)

BF + VF (T)

 $S = 3,2$
 $P = 31,8 \text{ k}\Omega$
 $V = -2$
 $\mu = 100$


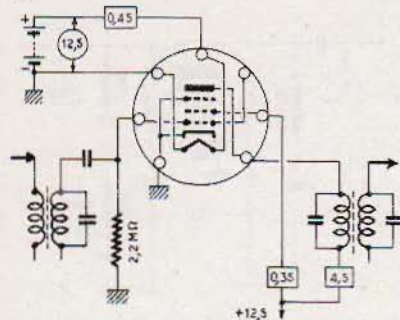
12C8 (O)

HF + D

 $S = 1,325$
 $P = 600 \text{ k}\Omega$
 $V = -3 - 20$


12CN5 (M)

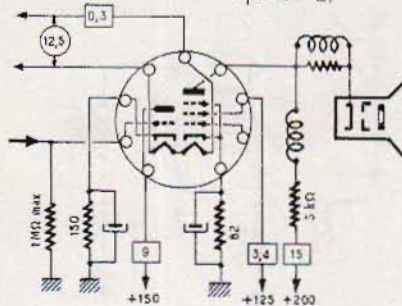
HF

 $S = 3,8$
 $\rho = 40 \text{ k}\Omega$
 $V = 0$


12CT8 (N)

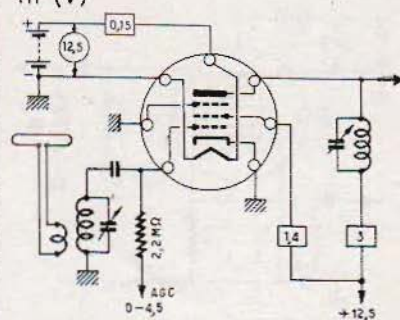
VF+BF (T)

TRIODE	$S = 4,0$	$S = 7$
	$\rho = 6,2 \text{ k}\Omega$	$\rho = 0,15 \text{ M}\Omega$
	$V = 1$	
	$V = 40$	



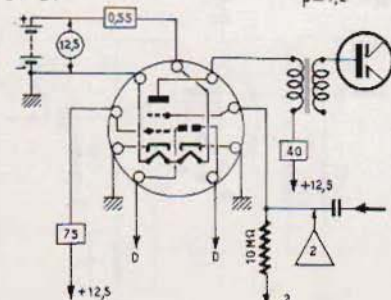
12CX6 (M)

HF (V)

 $S = 3,1$
 $\rho = 40 \text{ k}\Omega$
 $V = 0$


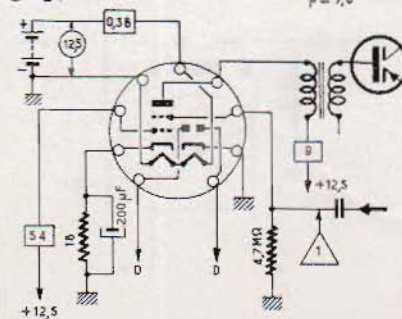
12DL8 (N)

D+BF

 $S = 15$
 $\rho = 480 \Omega$
 $V = -0,5$
 $\mu = 7,2$


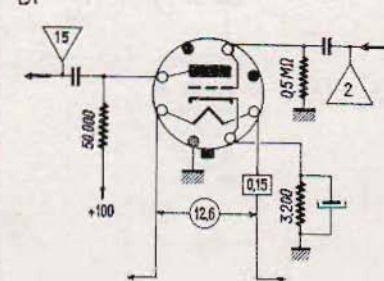
12DV8 (N)

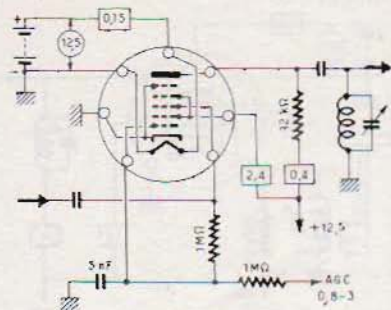
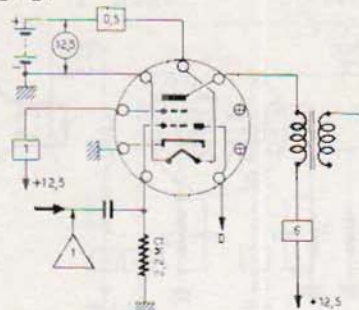
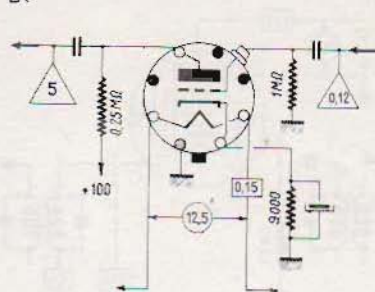
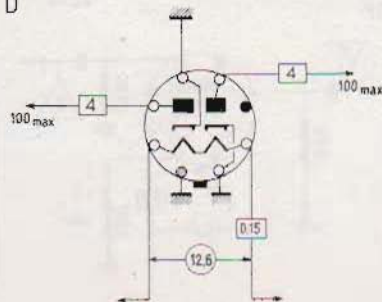
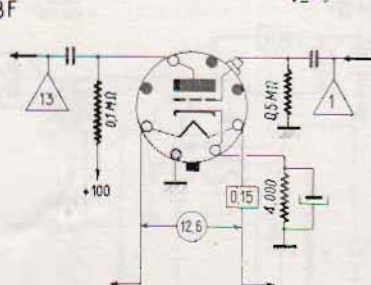
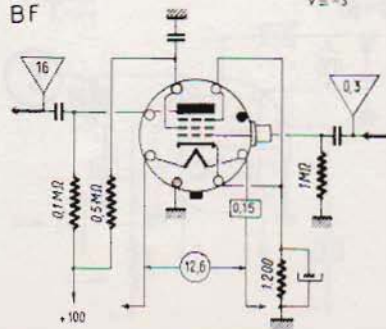
D+BF

 $S = 8,5$
 $\rho = 800$
 $V = 0$
 $\mu = 7,6$


12E5 (6P5) (O)

BF

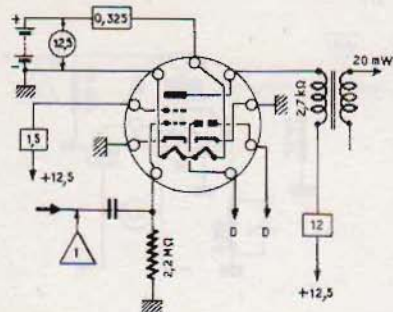
 $S = 1,15$
 $\rho = 12000$
 $V = -5$


12EG6 (M)
HF (V)
 $S = 0,8$
 $P = 0,15 \text{ M}\Omega$
 $V = -0,8$
12EM6 (N)
D+BF
 $S = 4$
 $P = 4 \text{ k}\Omega$
 $V = 0$
12F5 (6F5) (O)
BF
 $S = 1,5$
 $P = 60,000$
 $V = -2$
12H6 (6H 6) (O)
D12J5 (6J5) (O)
BF
 $S = 3$
 $P = 6,700$
 $V = -3$
12J7 (6J7) (O)
BF
 $S = 1,18$
 $P = 1 \text{ M}\Omega$
 $V = -3$


12J8

D+BF

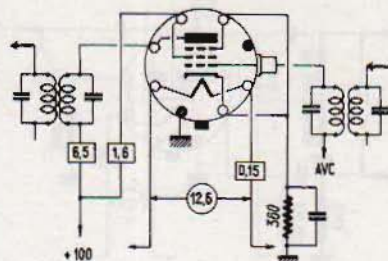
(N)

 $S = 5,5$
 $P = 6000$
 $V = 0$


12K7 (6K7)

HF (V)

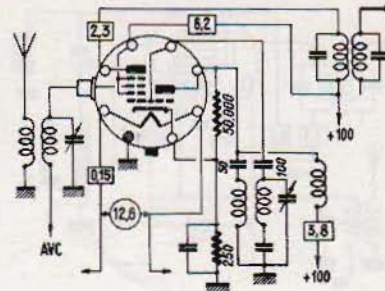
(O)

 $S = 1,32$
 $P = 0,25 \text{ M}\Omega$
 $V = -3 \sim -38,5$


12K8 (6K8)

C (V)

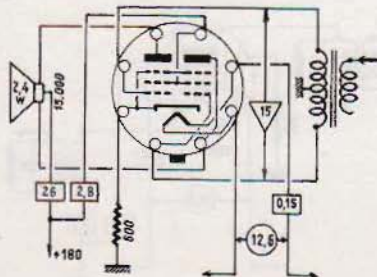
(O)

 $S_c = 0,325$
 $P = 0,4 \text{ M}\Omega$
 $V = -3 \sim -30$


12L8

P (Cl. AB)

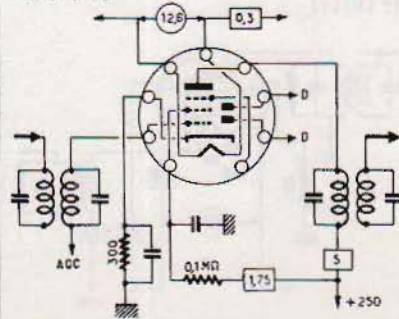
(O)

 $V = -3$ 

12N8

HF (V) + D

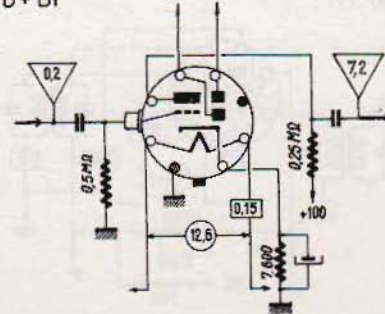
(N)

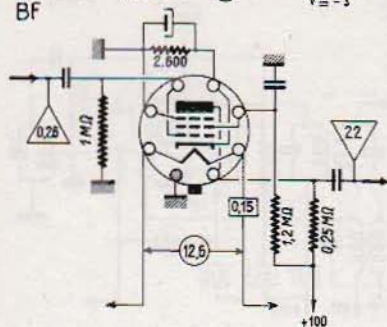
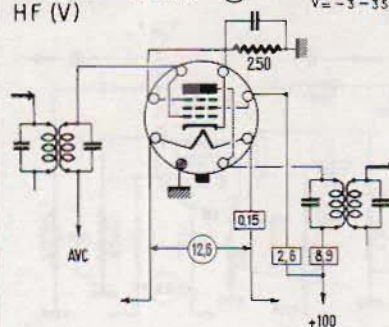
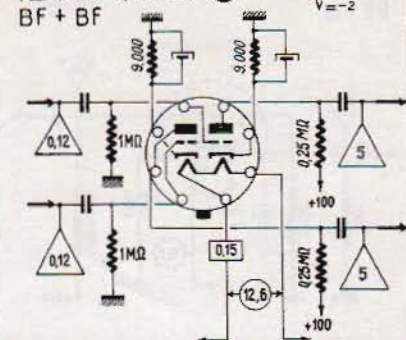
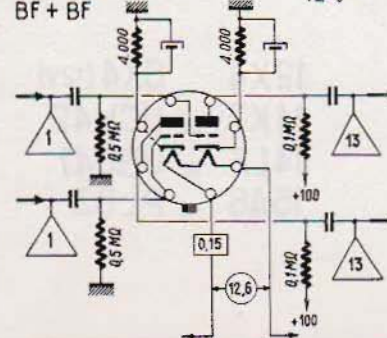
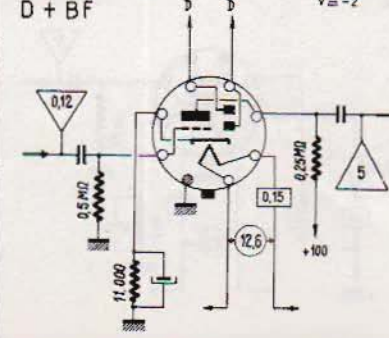
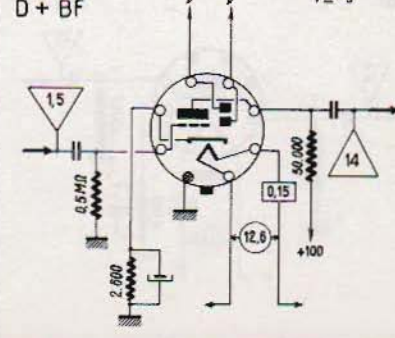
 $S = 2,2$
 $P = 1,5 \text{ M}\Omega$
 $V = -2 \sim -3,5$


12Q7

D+BF

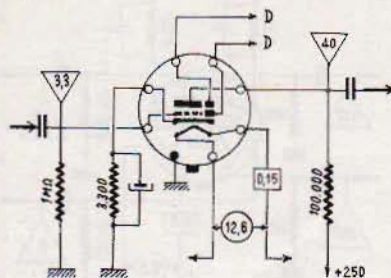
(O)

 $S = 0,8$
 $P = 8,7500$
 $V = -1,5$


12SJ7 (6SJ7) ①
BF
 $S = 1,5$
 $P = 0,7 \text{ M}\Omega$
 $V = -3$
12SK7 (6SK7) ①
HF (V)
 $S = 1,9$
 $P = 0,25 \text{ M}\Omega$
 $V = -3 \sim 35$
12SL7 (6SL7) ①
BF + BF
 $S = 1,6$
 $P = 14,000$
 $V = -2$
12SN7 (6SN7) ①
BF + BF
 $S = 3$
 $P = 6,700$
 $V = -3$
12SQ7 (6SQ7) ①
D + BF
 $S = 1,1$
 $P = 91,000$
 $V = -2$
12SR7 (6SR7) ①
D + BF
 $S = 1,9$
 $P = 8,500$
 $V = -8$


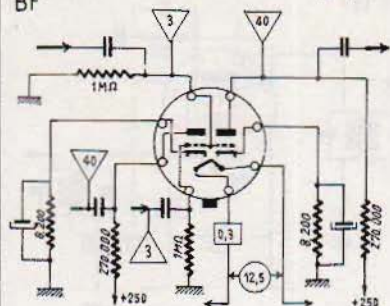
12SW7 ①
BF+D

$S = 1,9$
 $P = 6,500$
 $V = -9$



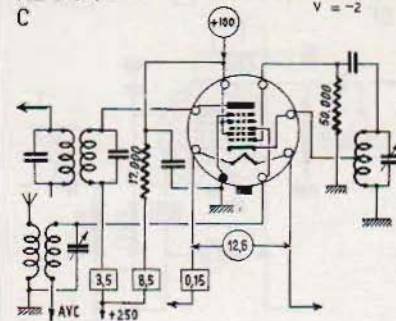
12SX7 ①
BF

$S = 2,5$
 $P = 7,700$
 $V = -8$



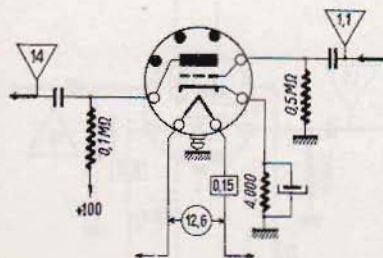
12SY7 ①
C

$S = 0,45$
 $P = 1,000$
 $V = -2$



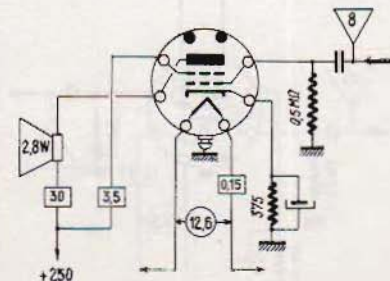
14A4 ①
BF

$S = 3$
 $P = 6,700$
 $V = 0$

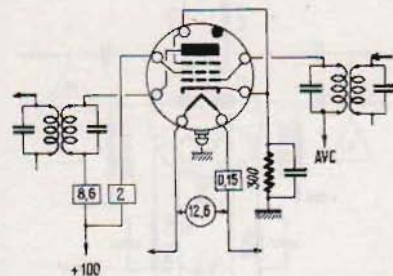
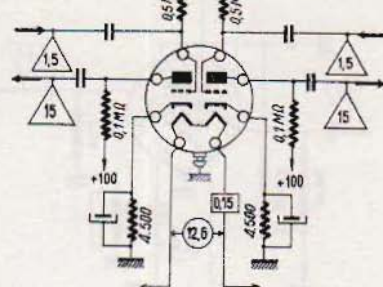
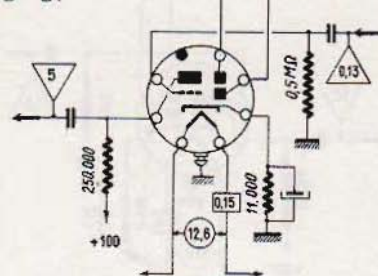
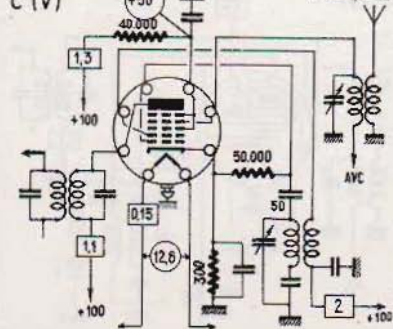
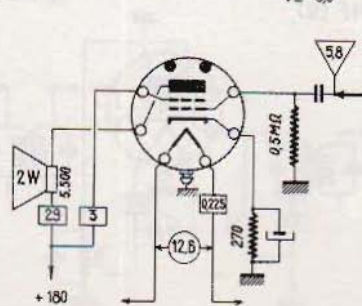
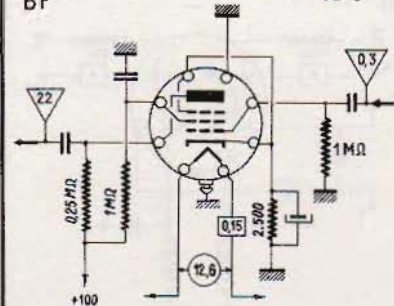


14A5 ①
P

$S = 3$
 $P = 70,000$
 $V = -12,5$

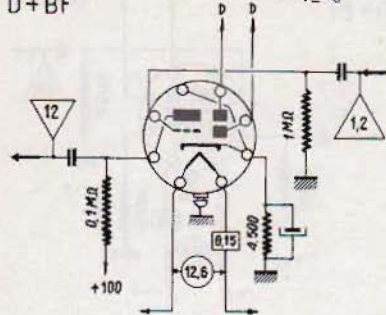


12X4 = 6X4 (12v)
14K7 = UCH42
14L7 = UBC41
15A6 = PL83

14A7 (L)
HF (V)
 $S = 2$
 $P = 0.8$
 $V = -3.5$
14AF7 (L)
BF + BF
 $S = 2.1$
 $P = 7.600$
 $V = -10$
14B6 (L)
D + BF
 $S = 1.1$
 $P = 91000$
 $V = -2$
14B8 (L)
C (V)
 $S = 0.38$
 $P = 0.6 \text{ M}\Omega$
 $V = -1.5 - 20$
14C5 (7C5) (L)
P
 $S = 3.7$
 $P = 58.000$
 $V = -6.5$
14C7 (7C7) (L)
BF
 $S = 2.2$
 $P = 0.4 \text{ M}\Omega$
 $V = -3$


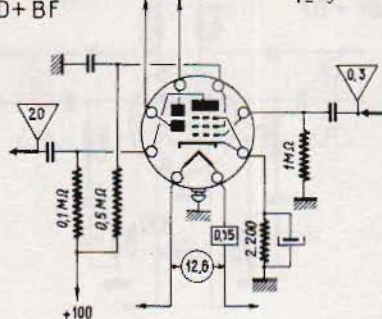
14E6 (7E6) (L)
D+BF

$S = 1,9$
 $P = 8,500$
 $V = -9$



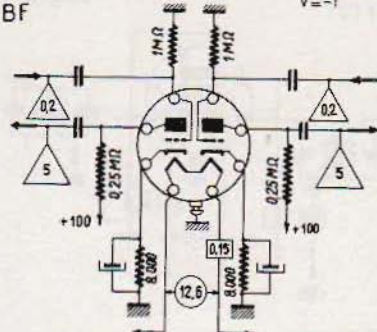
14E7 (L)
D+BF

$S = 1,3$
 $P = 0,7 M\Omega$
 $V = -3$



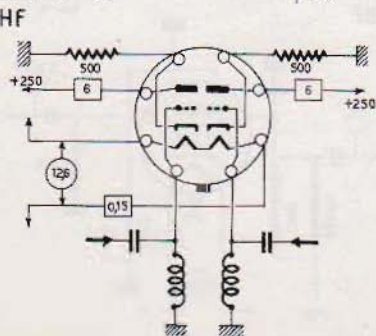
14F7 (7F7) (L)
BF

$S = 1,125$
 $P = 62000$
 $V = -1$



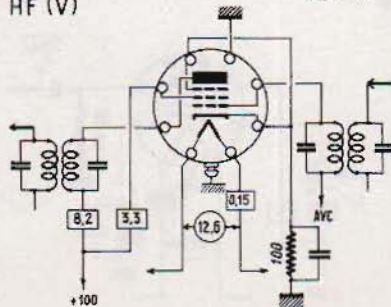
14F8 (O)
HF

$S = 3,3$
 $\gamma = 48$



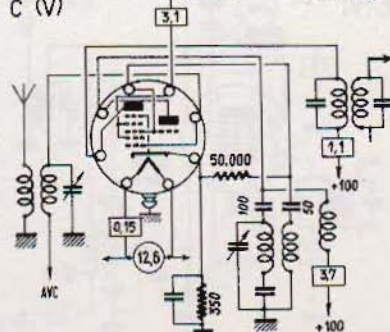
14H7 (7H7) (L)
HF (V)

$S = 3,8$
 $P = 0,25 M\Omega$
 $V = -1 - 12$



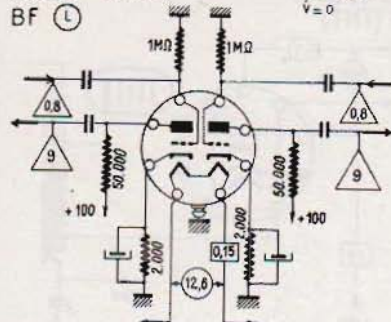
14J7 (7J7) (L)
C (V)

$S = 0,26$
 $P = 0,3 M\Omega$
 $V = -3 - 20$



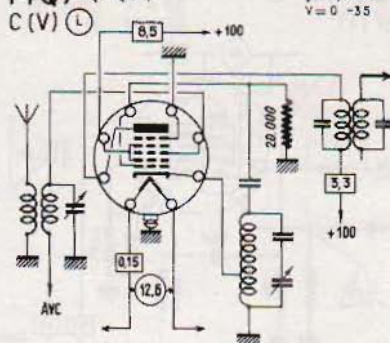
14N7 (7N7)

BF (L)

 $S = 3$
 $P = 6700 \Omega$
 $V = 0$


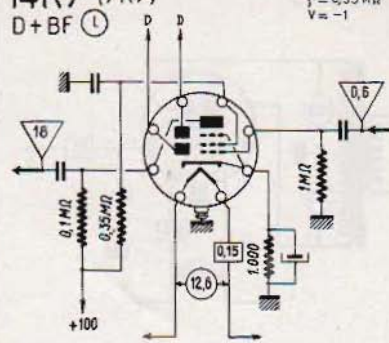
14Q7 (7Q7)

C (V) (L)

 $S = 0.525$
 $P = 0.5M\Omega$
 $V = 0 - 35$


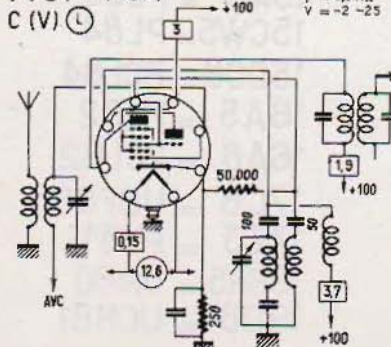
14R7 (7R7)

D + BF (L)

 $S = 3$
 $P = 0.35M\Omega$
 $V = -1$


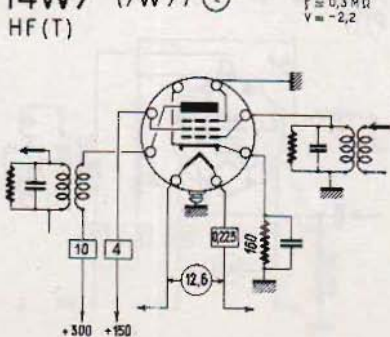
14S7 (7S7)

C (V) (L)

 $S = 0.5$
 $P = 0.5M\Omega$
 $V = -2 - 25$


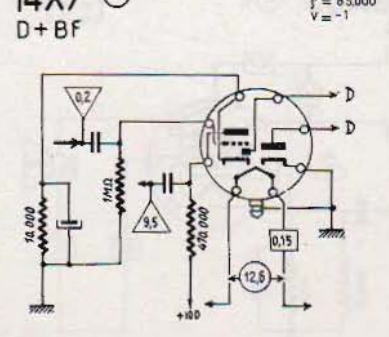
14W7 (7W7) (L)

HF (T)

 $S = 5.8$
 $P = 0.3M\Omega$
 $V = -2.2$


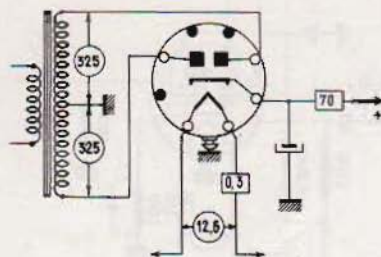
14X7 (L)

D + BF

 $S = 1.5$
 $P = 85,000$
 $V = -1$


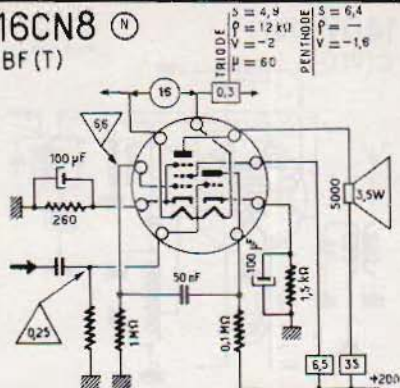
14Y4 (L)

R



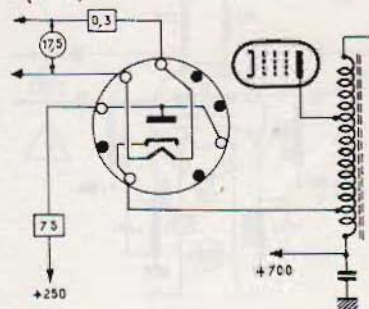
16CN8 (N)

BF (T)



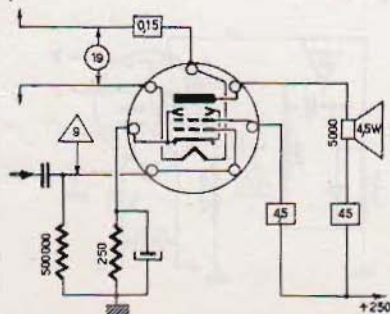
17H3 (N)

R (THT)

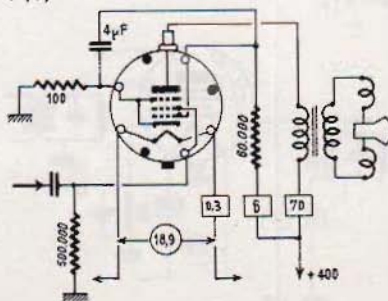


19AQ5 (M)

P

$$\begin{aligned} S &= 4,1 \\ P &= 52.000 \\ V &= -12,5 \end{aligned}$$


19BG6 ①

 $P(T)$
$$S = 6$$
$$Y = -50(\max)$$


15A6 = PL83

15CW5= PL84

15DQ8 = PCL84

16A5 = PL82

16A8 = PCL82

17C8 = UBF80

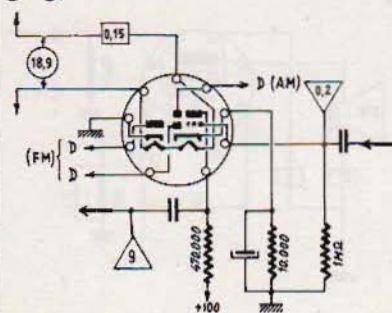
1773 - PY81

19BR5 = UM80

19D8 = UCH81

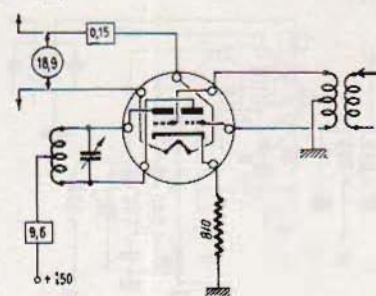
19C8 (AM/FM) (N)

D + BF

 $S = 1,25$
 $P = 8.0000$
 $V = -1$


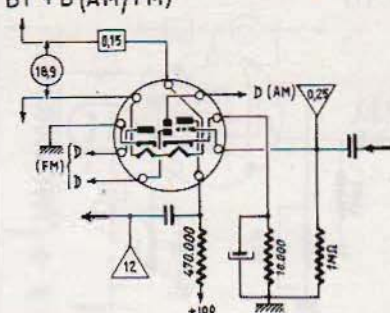
19J6 (M)

HF (T)

 $S = 1,8$
 $P = 10.200$
 $V = -8$


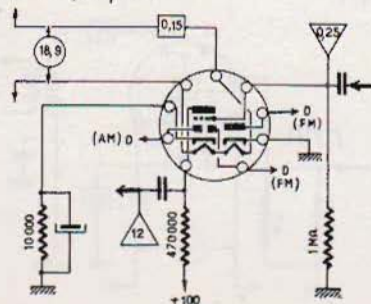
19T8 (N)

BF + D (AM/FM)

 $S = 1,3$
 $P = 54.000$
 $V = -1$


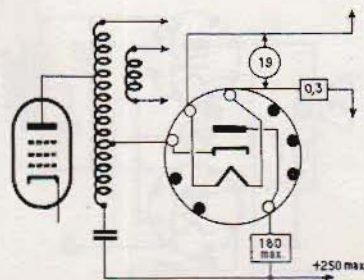
19V8 (N)

BF + D (AM/FM)

 $S = 1,3$
 $P = 54.000$
 $V = -1$


19X3 / PY80 (N)

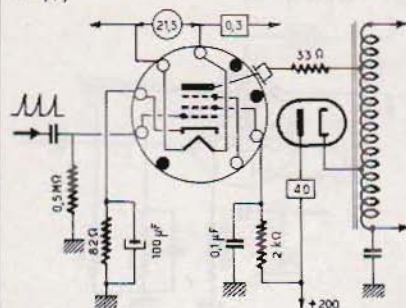
R (T)



19D3 = UCH81
 19Y3 = PY82
 21A6 = PL81
 25E5 = PL36
 19W3 = PY80
 19U3 = PY80

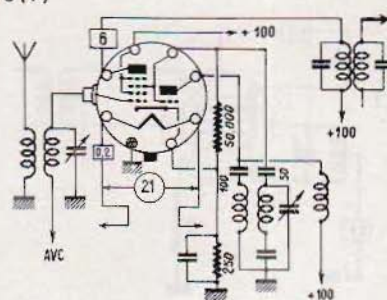
21B6 (N)
P (T)

$S = 6$
 $P = 11\text{ M}\Omega$
 $V = -28$



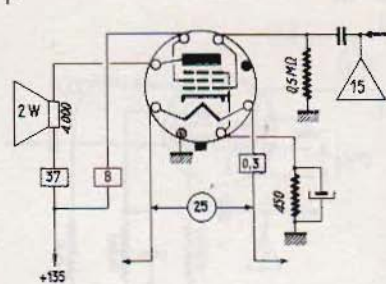
21TH8 (6TH8) (O)
C (V)

$S_c = 0.27$
 $P = 2\text{ M}\Omega$
 $V = -3 - 28$



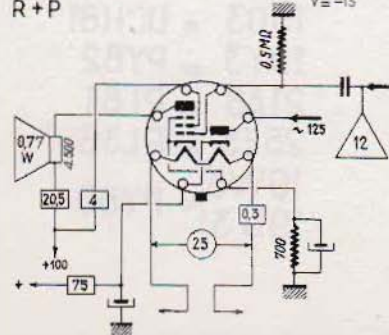
25A6 (O)
P

$S = 2.4$
 $P = 35,000$
 $V = -20$



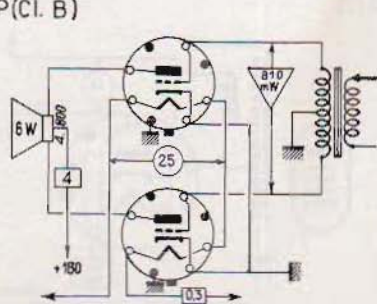
25A7 (O)
R+P

$S = 18$
 $P = 50,000$
 $V = -15$



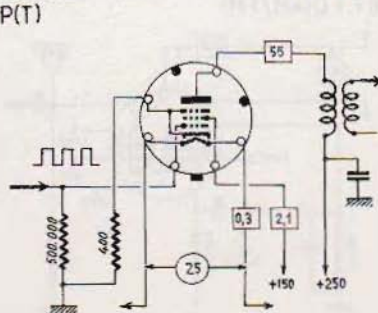
25AC5 (O)
P (Cl. B)

$S = 3.8$
 $P = 15,200\text{ }\Omega$



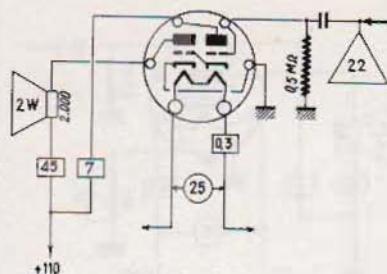
25AV5 (6AV5) (O)
P (T)

$S = 5.8$
 $V = -22.5$



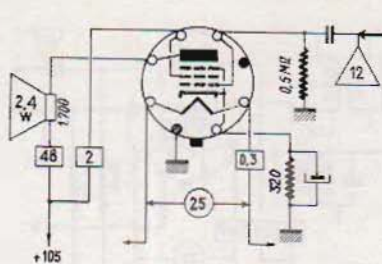
25B5 (U)
P

$S = 2,2$
 $\rho = 11,500$
 $V = 0$



25B6 (O)
P

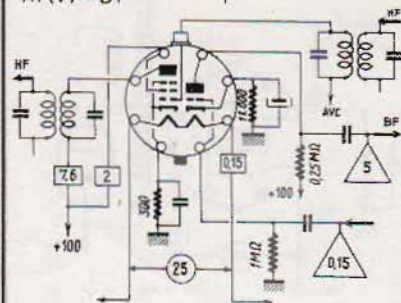
$S = 4,8$
 $\rho = 15,500$
 $V = -16$



25B8 (O)
HF(V) + BF

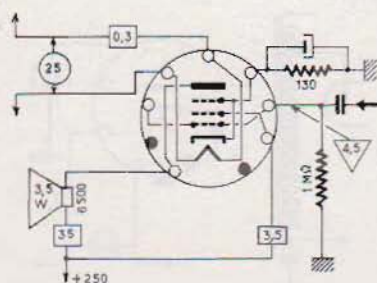
PENTHODE
 $S = 11$
 $\rho = 0,185 M \Omega$
 $V = -3-41$

TRIODE
 $S = 1,5$
 $\rho = 75,000 \Omega$
 $V = -1$



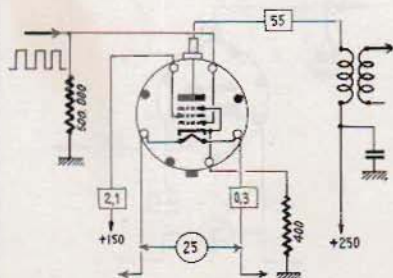
25BK5 (N)
P

$S = 8,5$
 $\rho = 100 k \Omega$
 $V = -3$



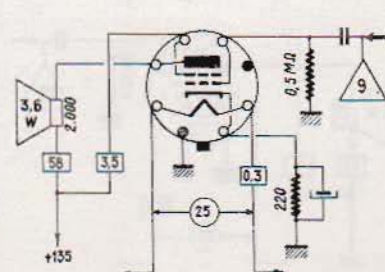
25BQ6 (6BQ6) (O)
P(T)

$S = 5,5$
 $V = -22,5$



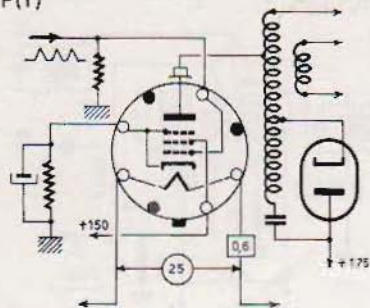
25C6 (O)
P

$S = 7$
 $\rho = 9,300$
 $V = -13,5$



25CD6 ①

P(T)

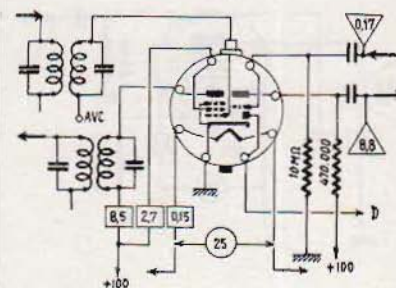


25D8 ①

HF + BF + D

PENTHODE
 $s = 1.9$
 $p = 200 \text{ k}\Omega$
 $v = -3$

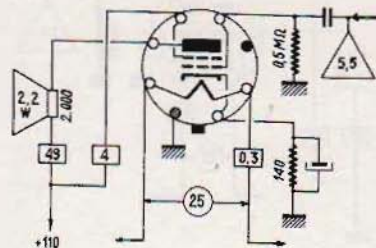
TRIODE
 $s = 1.1$
 $p = 91 \text{ k}\Omega$
 $v = -1$



25L6 ①

P

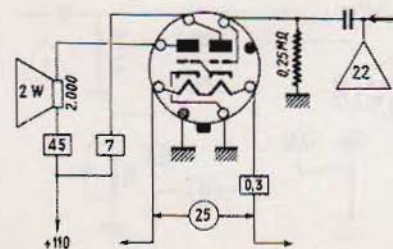
$s = 8.2$
 $p = 10000$
 $v = -7.5$



25N6 (25B5) ①

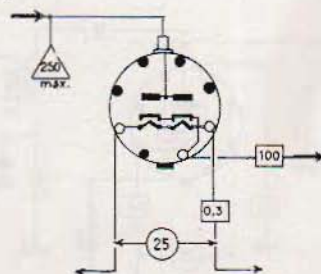
P

$s = 2.2$
 $p = 11500$
 $v = 0$



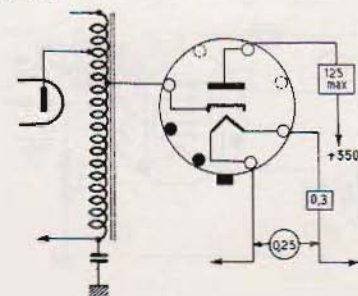
25T3G ①

R(T)



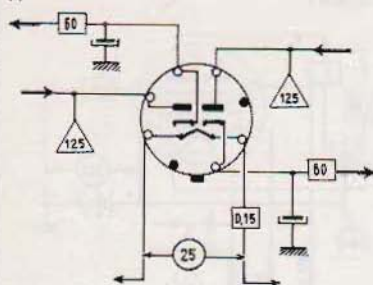
25W4 ①

R(T)



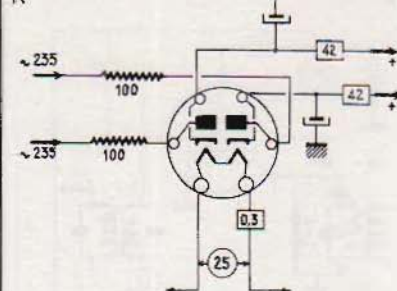
25X6 ①

R



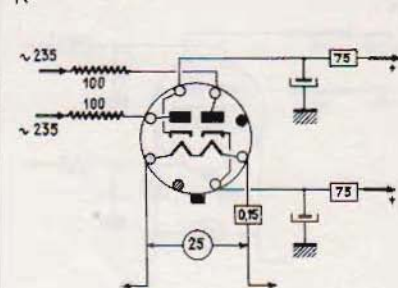
25Y5 ① US

R



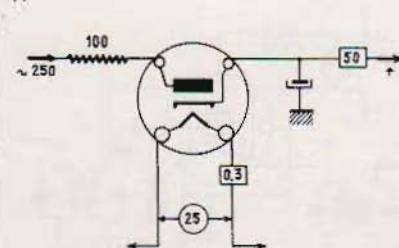
25Y6 ①

R



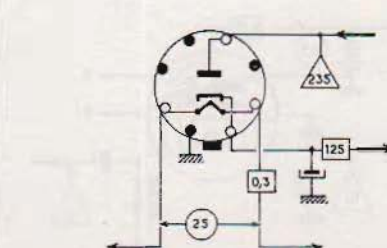
25Z3 ① US

R



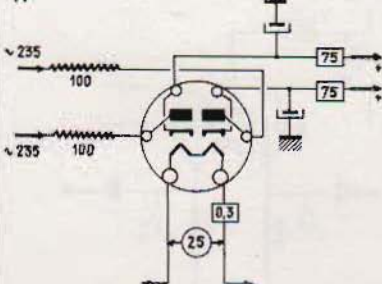
25Z4 ①

R



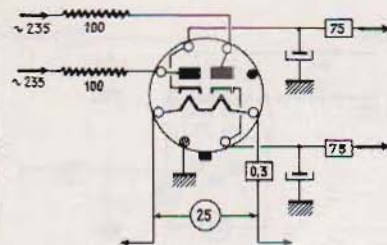
25Z5 ① US

R



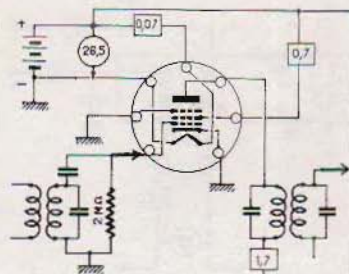
25Z6 (0)

R



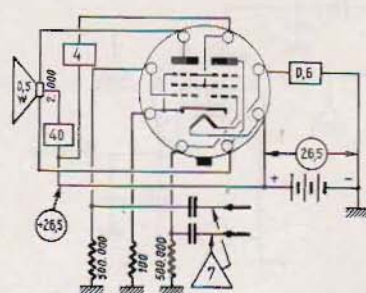
26A6 (M)

HF

 $S = 4$
 $P = 1 \text{ M}\Omega$
 $V = -2$


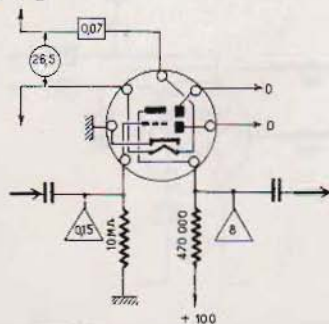
26A7 (28D7) (0)

P(Cl. A2)

 $S = 5$
 $P = -4.5$


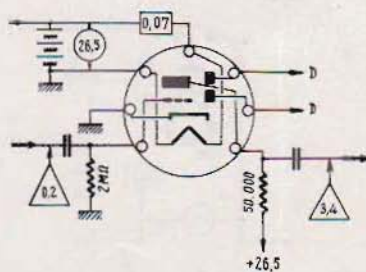
26BK6 (M)

BF + D

 $S = 1.25$
 $P = 80.000$
 $V = -1$


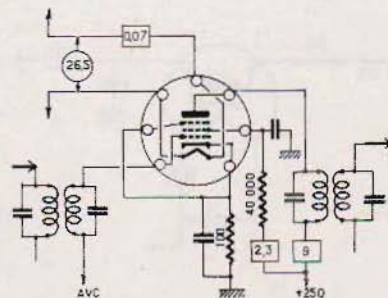
26C6 (M)

D + BF

 $S = 11$
 $P = 15.500$
 $V = 0$


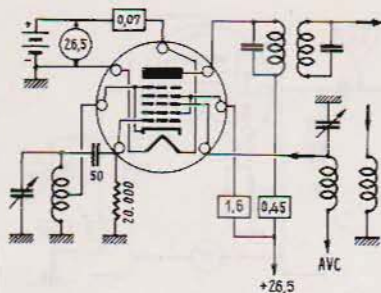
26CG6 (M)

HF (V)

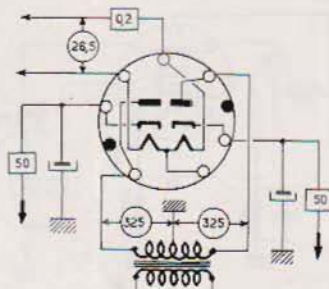
 $S = 2$
 $P = 720.000$
 $V = -1 - 8$


26D6 (M)
C (V)

$S_c = 0,27$
 $P = 1 \text{ M}\Omega$
 $V = 0-30$

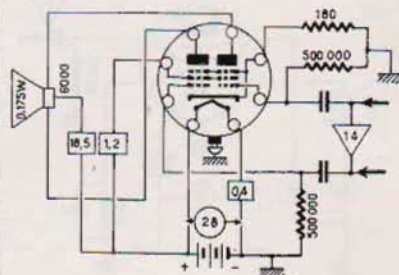


26Z5 (N)
R

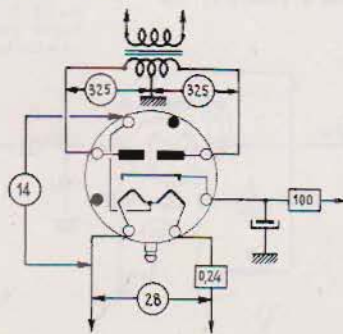


28D7 (L)
P (CLAB)

$S = 3,4$
 $P = 4,200$
 $V = -3,5$

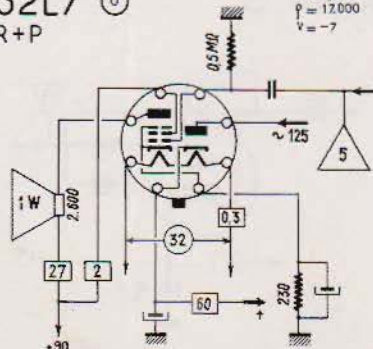


28Z5 (L)
R



32L7 (O)
R+P

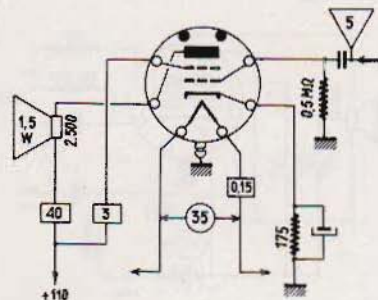
$S = 4,8$
 $P = 12,000$
 $V = -7$



30A5 = HL94
30AE3 = PY88
31A3 = UY41
35W4 = HY90
38A3 = UY85
45A5 = UL41
45B5 = UL84
50C5 = HL92

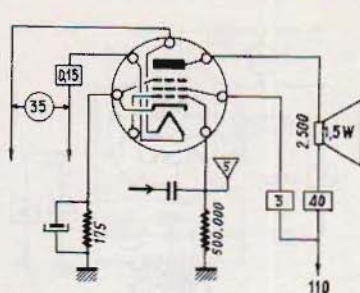
35A5 (35L6) Ⓛ

P

 $S = 5,8$
 $P = 14,000$
 $V = -7,5$


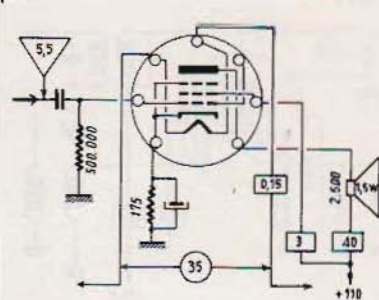
35B5 Ⓜ

P

 $S = 5,8$
 $P = 15,000$
 $V = -7,5$


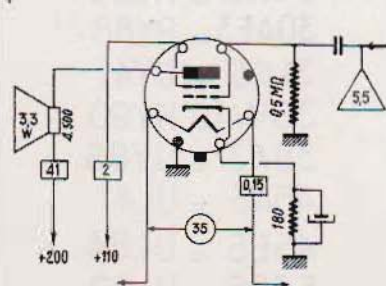
35C5 Ⓜ

P

 $S = 5,8$
 $P = 14,000$
 $V = -7,5$


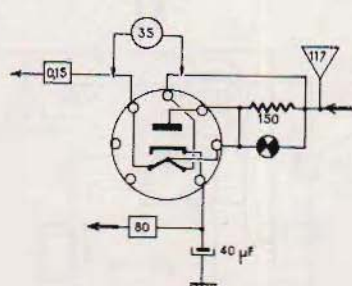
35L6 (35A5) Ⓛ

P

 $S = 5,8$
 $P = 14,000$
 $V = -7,5$


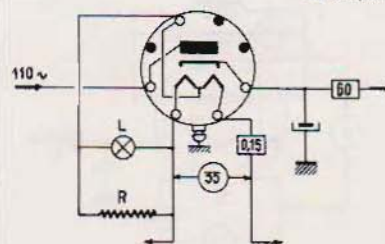
35W4 Ⓜ

R



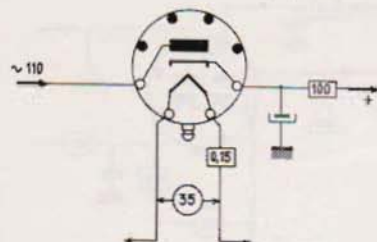
35Y4(35Z5) Ⓛ

R

 $I = 60$
 $R = 300 \quad I = 70$
 $R = 150 \quad I = 80$
 $R = 100 \quad I = 90$
 $L = 5,5V (0,4A)$


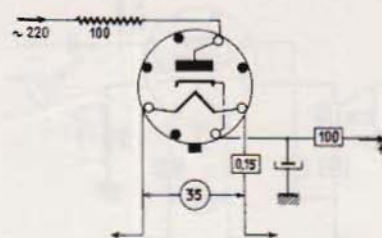
35Z3 (35Z4) ⓪

R



35Z4 (35Z3) ⓪

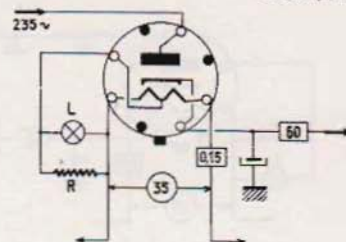
R



35Z5 (35Y4) ⓪

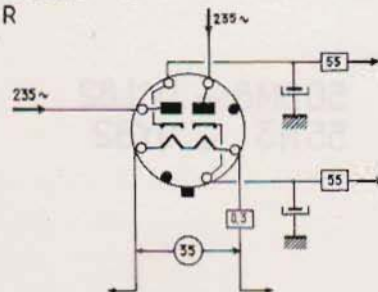
R

$I = 60$
 $R = 300$ $I = 70$
 $R = 150$ $I = 80$
 $R = 100$ $I = 90$
 $I = 5.5V (0.1A)$



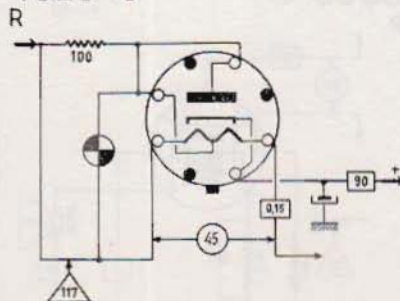
35Z6 ⓪

R



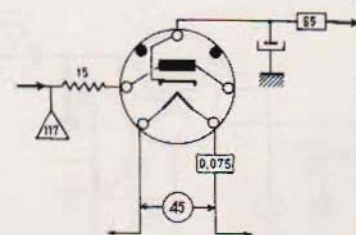
40Z5 ⓪

R



45Z3 Ⓜ

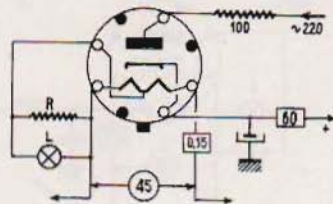
R



45Z5 (35Z5) ⓪

R

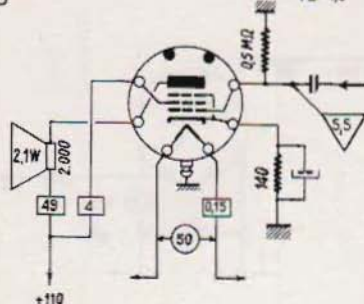
$R =$ $I = 60$
 $R = 300$ $I = 70$
 $R = 150$ $I = 80$
 $R = 100$ $I = 90$
 $L = 5,5V (0,4)$



50A5 ⓪

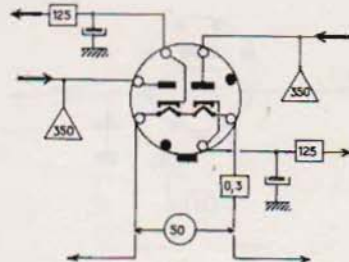
P

$S = 8,2$
 $f = 10.000$
 $V = -7,5$



50AX6 ⓪

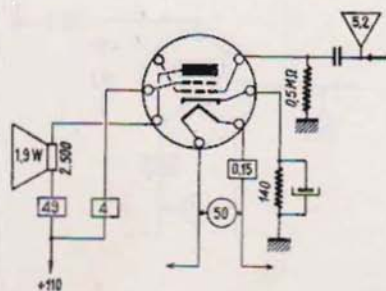
R



50B5 ⓪

P

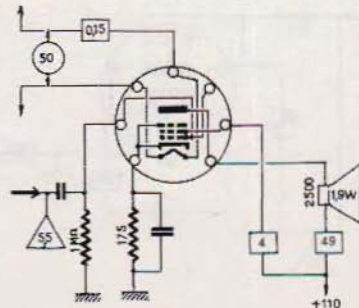
$S = 7,5$
 $f = 14.000$
 $V = -7,5$



50C5 ⓪

P

$S = 7,5$
 $f = 10.000$
 $V = -7,5$

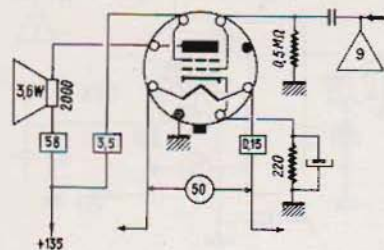


50BM8 = UCL82

55N3 = UY82

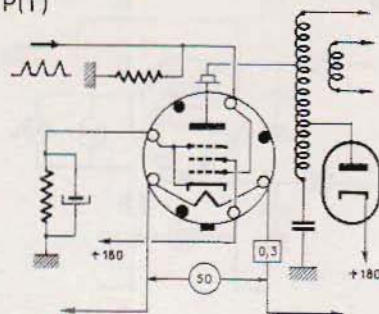
50C6 (6Y6) ①

P

 $S = 7$
 $P = 9,300$
 $V = -13,5$


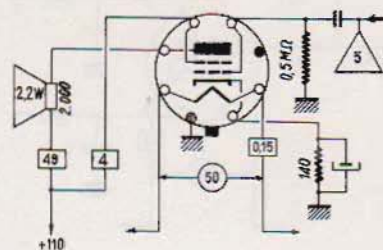
50CD6 ①

P(T)



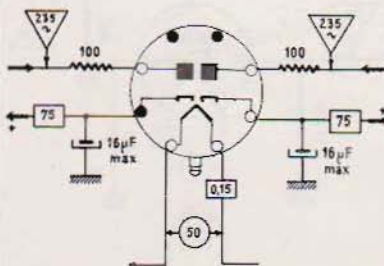
50L6 (25L6) ①

P

 $S = 6,2$
 $P = 10,000$
 $V = -7,5$


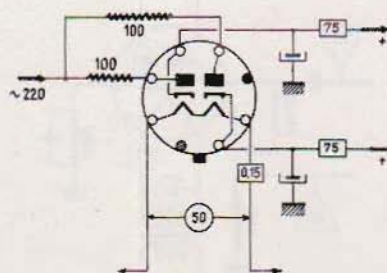
50X6 ①

R



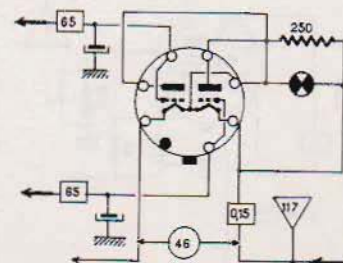
50Y6 (25Z6) ①

R



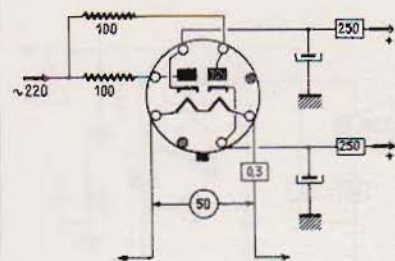
50Y7 ①

P



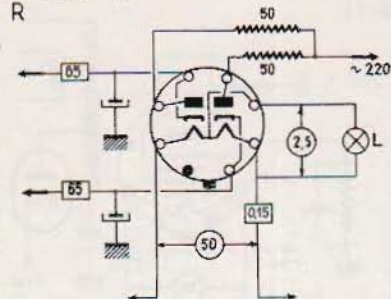
50Z6 ①

R



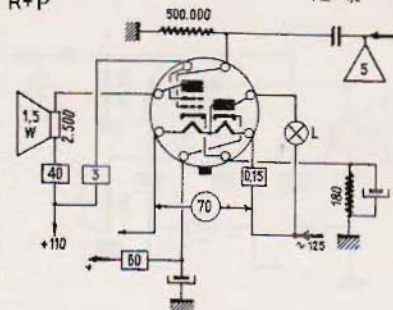
50Z7 ①

R



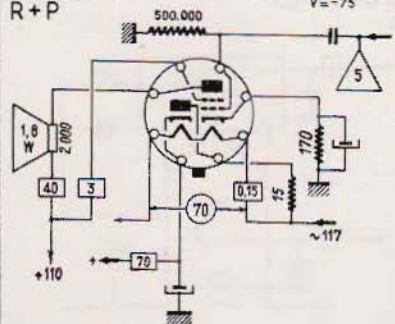
70A7 ①

R+P

 $S = 5,8$
 $P = 15,000$
 $V = -7,5$


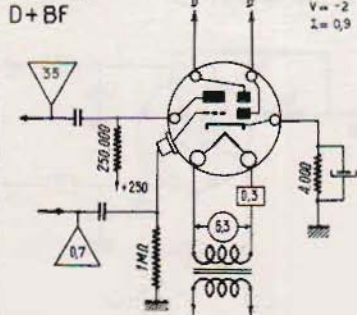
70L7 ①

R+P

 $S = 7,5$
 $P = 15,000$
 $V = -7,5$


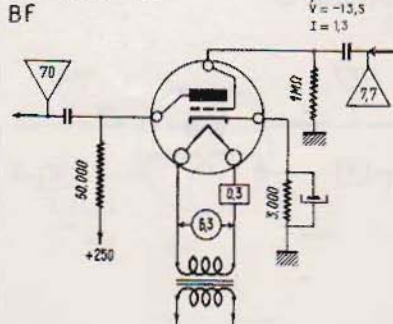
75 ① US

D+BF

 $S = 1,1$
 $P = 91,000$
 $V = -2$
 $I = 0,9$


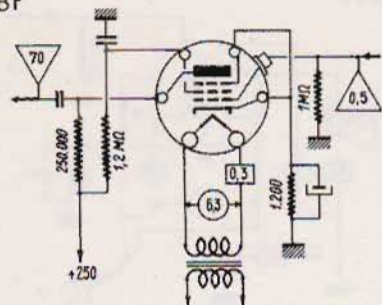
76 (56) ① US

BF

 $S = 1,4$
 $P = 9,500$
 $V = -13,5$
 $I = 1,3$


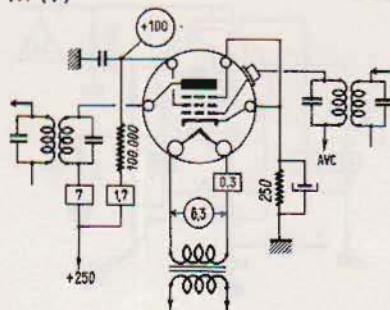
77 (6J7) (US)

BF

 $S = 1,2$
 $\rho = 1M\Omega$
 $V = -3$


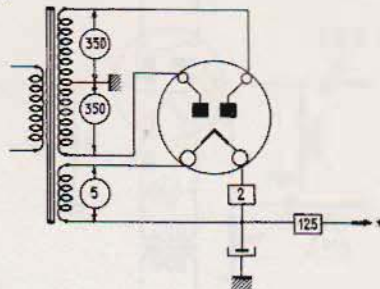
78 (6K7) (US)

HF (V)

 $S = 1,45$
 $\rho = 0,8 M\Omega$
 $V = -3 - 52,5$


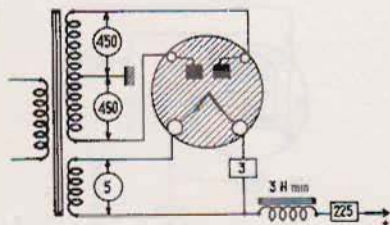
80 (5Y3) (US)

R



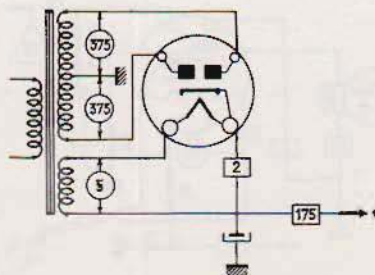
83 (US)

R



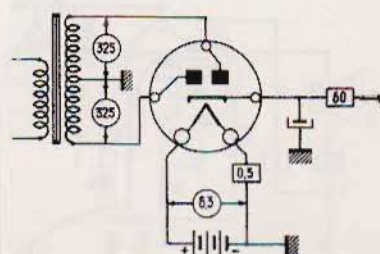
83 (5V4) (US)

R



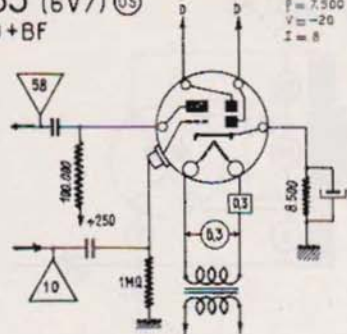
84 (6Z4) (US)

R



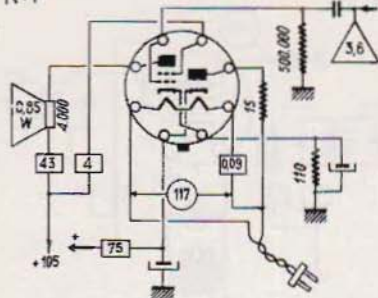
85 (6V7) (US)
D+BF

$S = 1,1$
 $P = 7,500$
 $V = -20$
 $I = 8$



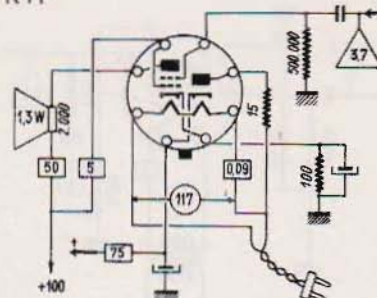
117L7 (117P7) (O)
R+P

$S = 5,3$
 $P = 17,000$
 $V = -5,2$



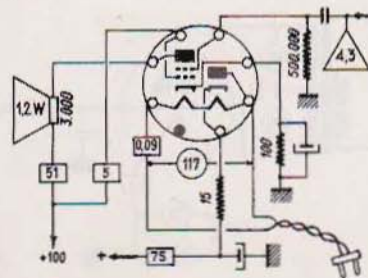
117M7 (O)
R+P

$S = 7$
 $P = 15,000$
 $V = -5,5$



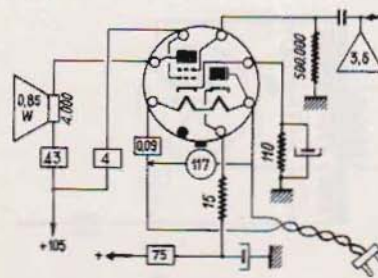
117N7 (O)
R+P

$S = 7$
 $P = 16,000$
 $V = -6$

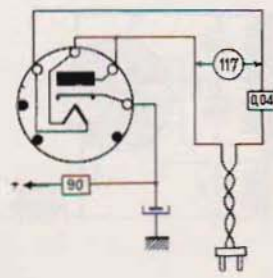


117P7 (117L7) (O)
R+P

$S = 5,3$
 $P = 17,000$
 $V = -5,2$

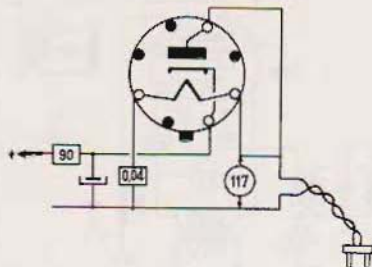


117Z3 (M)
R



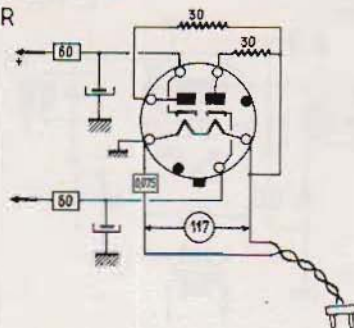
117Z4 (0)

R



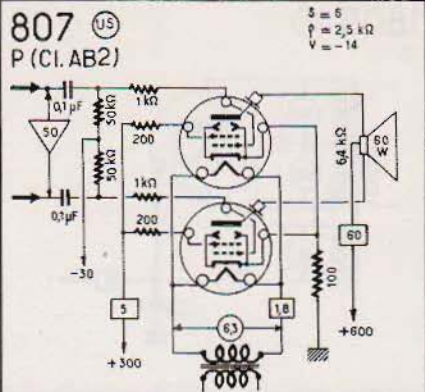
117Z6 ①

R



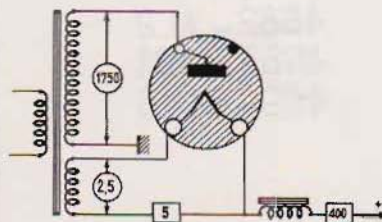
807 (US)

P (Cl. AB2)



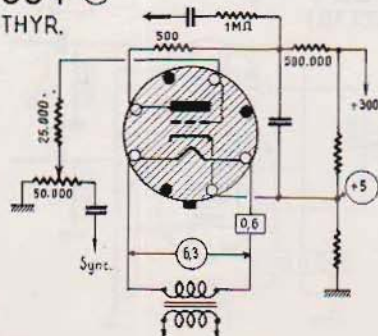
866 (US)

R



884 ①

THYR.

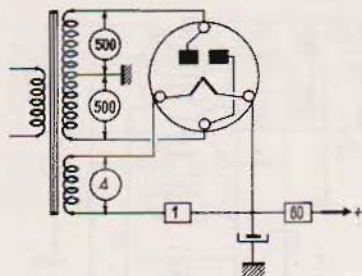

$$1275 = 573$$
$$1276 = 6A3$$
$$1291 = 3B7$$

1299 = 3D6

$$1612 = 6L7$$
$$1629 = 6E5$$

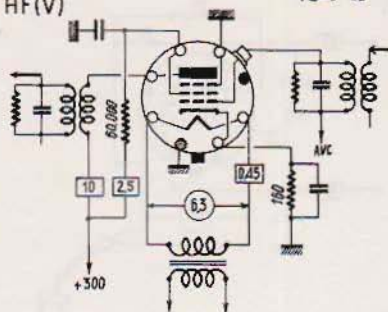
1805 (E)

R



1851 ①

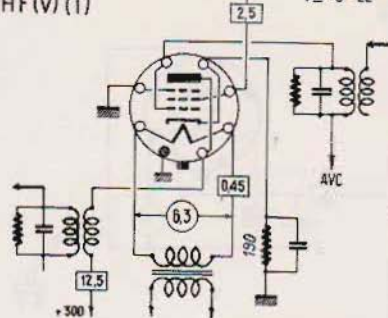
HF(V)

$$\begin{aligned} S &= 9 \\ \rho &= 0,75 \text{ M}\Omega \\ V &= -3 - 22 \end{aligned}$$


1853 ①

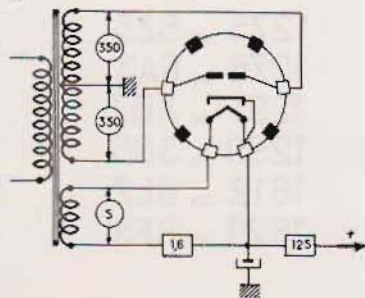
HF(V) (T)

$S = 5$
 $R = 0,7 \text{ M}\Omega$
 $V = -3 - 22$

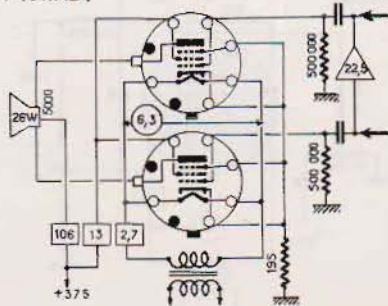


1883 (T)

R



4654 K ①

$$P(C|AB)$$
$$\begin{aligned} S &= 8,5 \\ P &= 22.000 \\ V &= -14,5 \end{aligned}$$


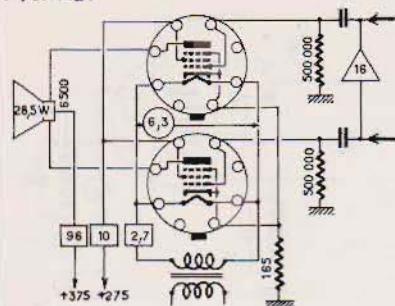
4682 = AL 2

$$4683 = AD1$$

4699 = EL6

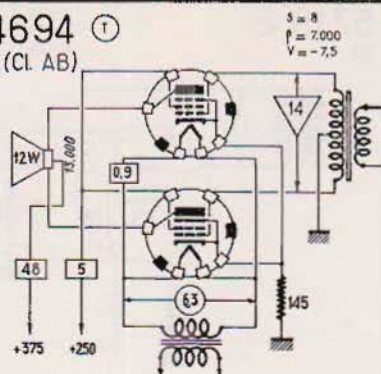
4689 K ①

P(Cl. AB)



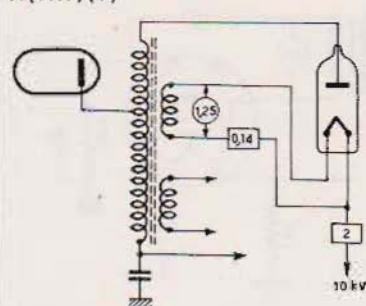
4694 ①

P(Cl. AB)



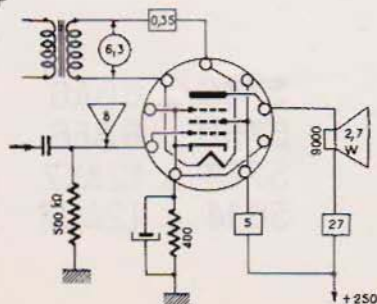
5642 ③W

R(THT)(T)



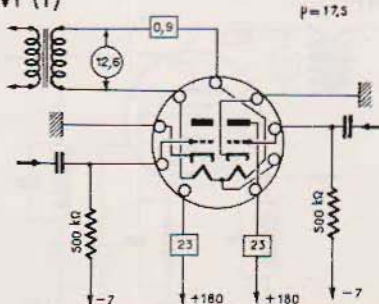
5686 ①

P

S = 3,1
V = -12,5

5687 ①

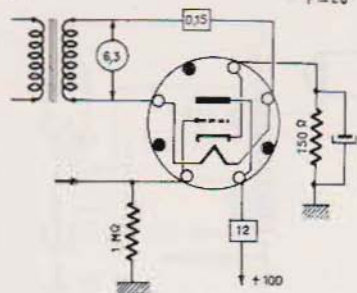
VF(T)

S = 6,4
P = 2,7 kΩ
V = -7
P = 17,5

5654 = 6AK5
 5670 = 2C51
 5725 = 6AS6
 5726 = 6AL5
 5727 = 2D21
 5732 = 6K7

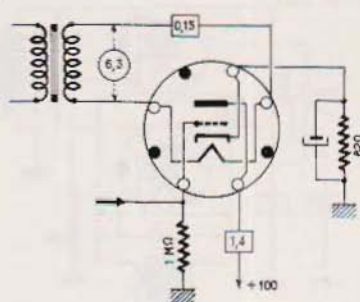
5718 (SM)

BF

 $S = 5,5$
 $P = 3,650$
 $V = -2$
 $F = 20$


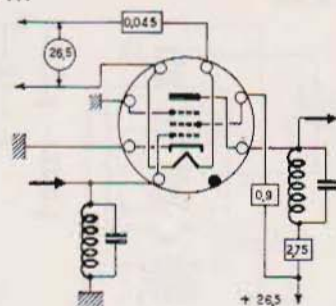
5719 (SM)

BF

 $S = 2,7$
 $P = 26k\Omega$
 $F = 70$


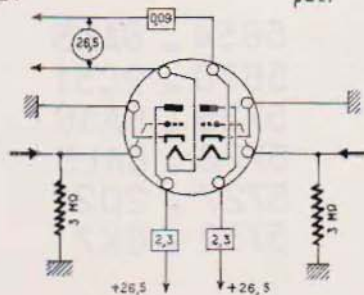
5797 (SM)

HF (T)

 $S = 3,45$
 $P = 70k\Omega$
 $V = 0$


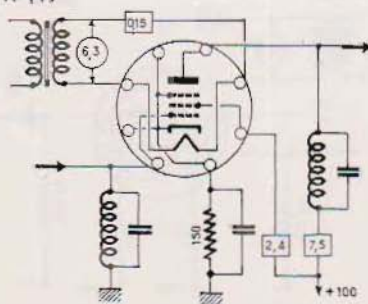
5798 (SM)

BF

 $S = 3,15$
 $P = 6,7k\Omega$
 $V = 0$
 $F = 21$


5840 (SM)

HF (T)

 $S = 5$
 $P = 230k\Omega$


5749 = 6BA6

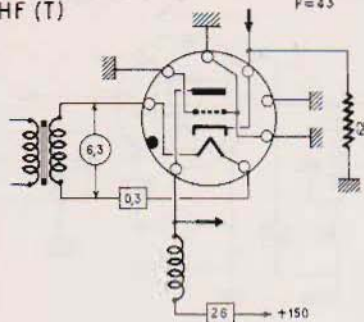
5750 = 6BE6

5751 = 12AX7

5814 = 12AU7

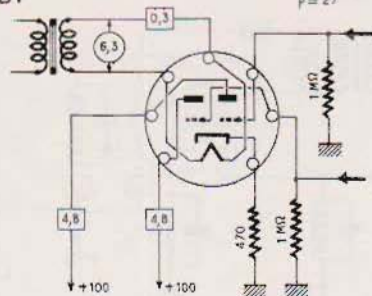
5842 (N)

HF (T)

 $S = 24$
 $P = 1,8 \text{ k}\Omega$
 $V = 4,3$


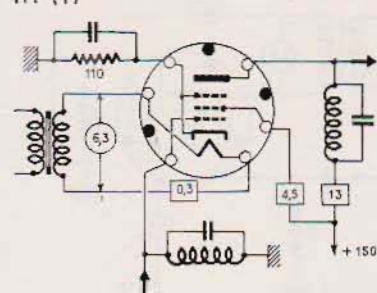
5844 (M)

BF

 $S = 3,4$
 $P = 7,950$
 $V = -4,5$
 $P = 27$


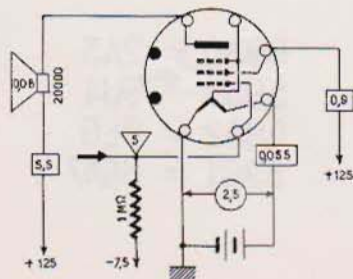
5847 (N)

HF (T)

 $S = 12,5$ 

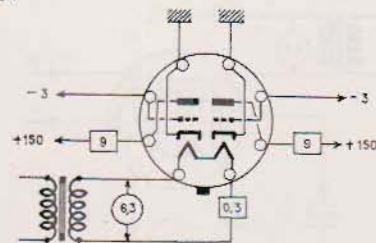
5851 (SM)

P

 $S = 1,6$
 $P = 17,5 \text{ k}\Omega$
 $V = -7,5$


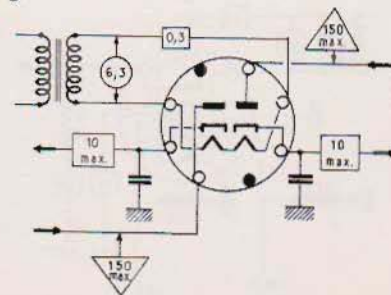
5873 (SM)

BF

 $S = 2,9$
 $V = -3$
 $P = 22$


5896 (6H6) (SM)

D

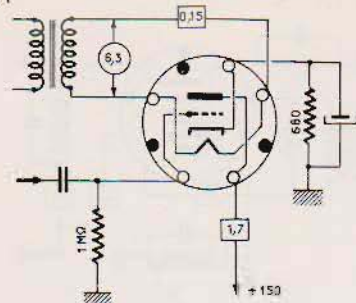


5898

SM

 $S = 2,7$
 $\mu = 70$

BF

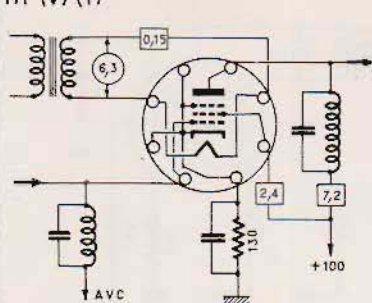


5899

SM

 $S = 4,5$
 $\mu = 260$
 $V = -1,5 \text{ --} -20$

HF (V) (T)

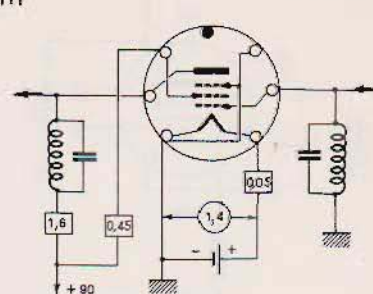


5910

M

 $S = 0,9$
 $\mu = 1,5$
 $V_{\text{max}} = 0$

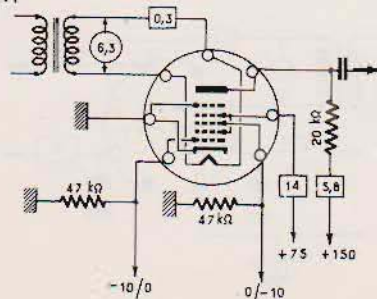
HF



5915

M

HF

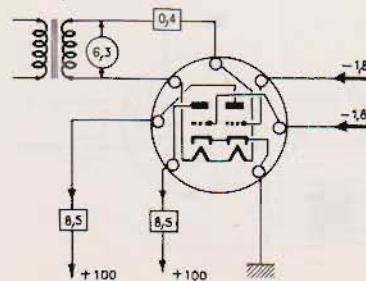


5920

M

 $S = 5,5$
 $V = -1,8$
 $\mu = 25$

VF (T)

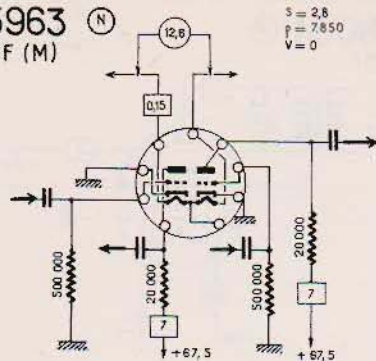
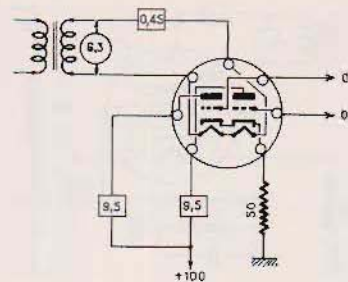
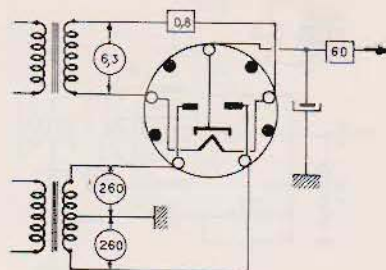
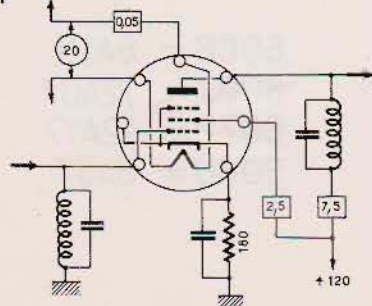
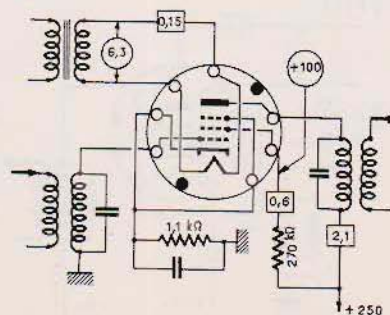


5930 = 2A3

5931 = 5U4

5932 = 6L6

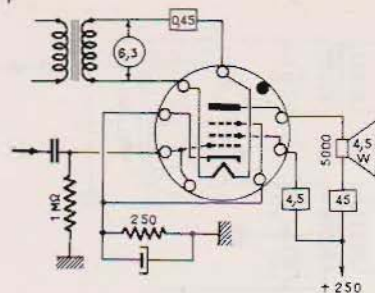
5961 = 6SA7

5963 (N)
BF (M)5964 (M)
HF/BF5993 (N)
R6028 (M)
HF6059 (N)
HF

6005 = 6AQ5
 6057 = 12AX7
 6058 = 6AL6
 6060 = 12AT7
 6063 = 6X4

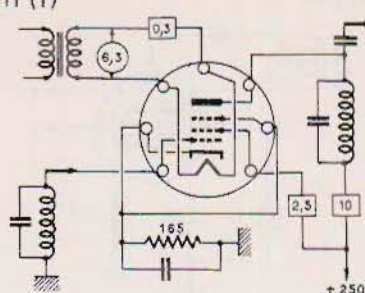
6061 (N)

P

 $S = 4,1$
 $\rho = 52 \text{ k}\Omega$
 $V = -12,5$


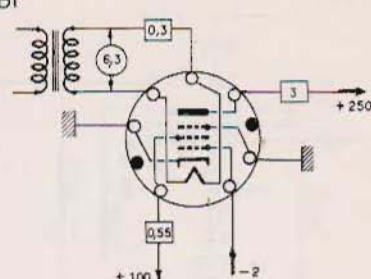
6064 (M)

HF(T)

 $S = 7,5$
 $\rho = 1 \text{ M}\Omega$
 $V = -2$


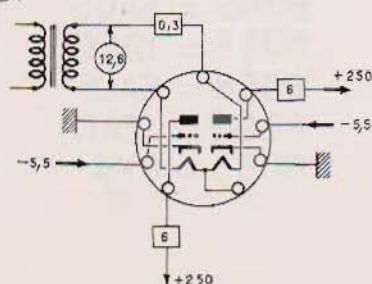
6084 (N)

BF

 $S = 1,85$
 $\rho = 1,8 \text{ M}\Omega$
 $V = -2$


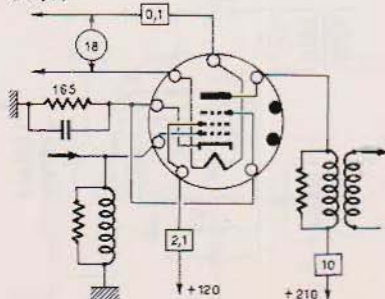
6085 (N)

BF

 $S = 2,7$
 $V = -5,5$
 $\mu = 30$


6086 (N)

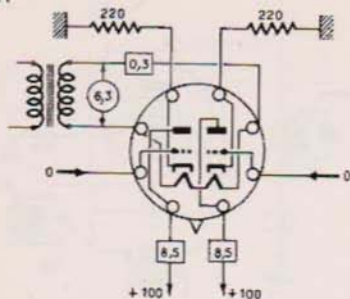
VF(T)

 $S = 8$
 $\rho = 500 \text{ k}\Omega$
 $V = -1,5$


6066 = 6AT6
 6067 = 12AU7
 6072 = 12AY7
 6080 = 6AS7

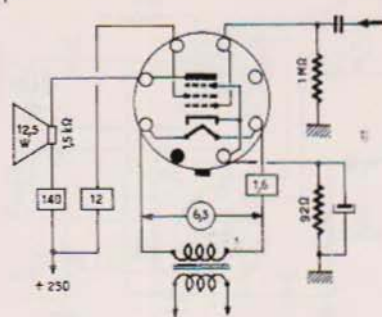
6111 (SM)
BF

$S = 5$
 $V = -1,9$
 $P = 20$



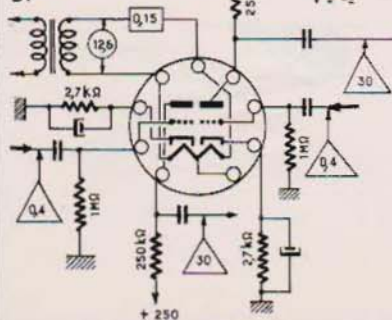
6550 (O)
P

$S = 11$
 $P = 12 \text{ k}\Omega$
 $V = -14$



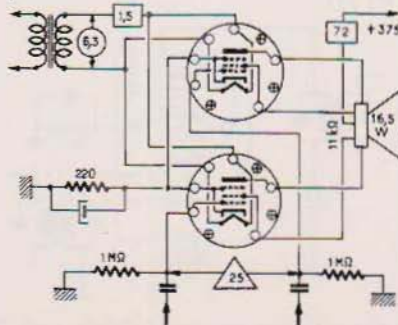
7025(12AX7) (N)
BF

$S = 1,6$
 $V = 100$
 $P = 62 \text{ k}\Omega$
 $V = -2$



7189 (N)
P

$S = 11,5$
 $P = 40 \text{ k}\Omega$
 $V = -2,3$

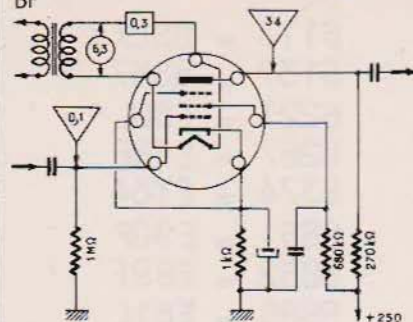


- 6113 = 6SL7
- 6137 = 6SK7
- 6227 = E80L
- 6267 = EF86
- 6374 = EY84
- 6661 = E90F
- 6662 = E99F
- 6686 = E81L
- 6687 = E91H
- 6688 = E180F
- 6689 = E89F
- 6922 = E88CC
- 7062 = E180CC
- 7119 = E182CC
- 7316 = ECC186
- 7534 = E130L

7543

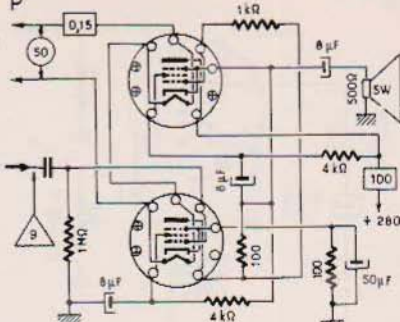
(6AU6) (M)

BF

 $S = 5,2$
 $P = 1 \text{ M}\Omega$
 $V = -1$


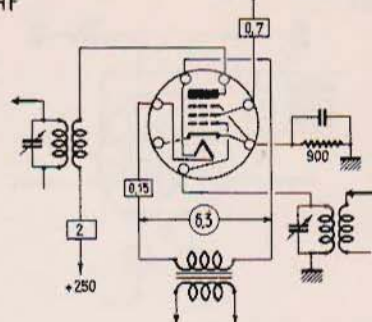
7695 (N)

P

 $S = 11$
 $P = 7 \text{ k}\Omega$
 $V = -11$


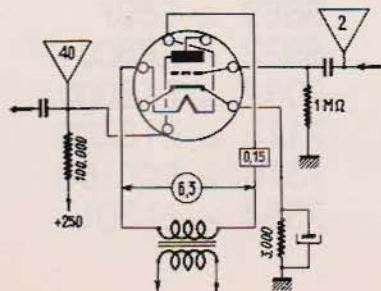
9001 (M)

HF

 $S = 1,4$
 $P = 1 \text{ M}\Omega$
 $V = -3$


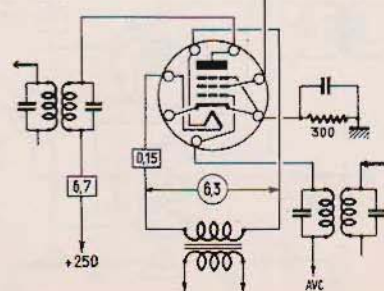
9002 (M)

BF

 $S = 2,2$
 $P = 11,400$
 $V = -7$


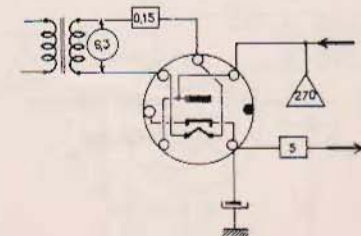
9003 (M)

HF (V)

 $S = 1,8$
 $P = 0,7 \text{ M}\Omega$
 $V = -3 - 35$


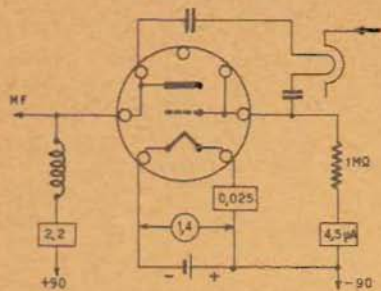
9006 (M)

D



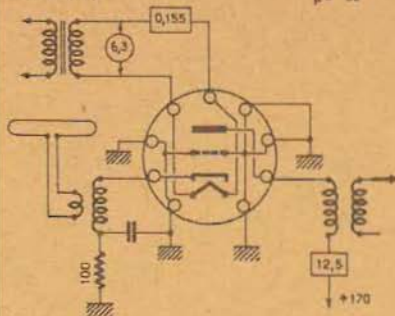
DC96 (M)
C (U.H.F.)

$S_c = 370 \mu A/V$
 $S = 1 mA/V$
 $\mu = 14$
 $V = -2,5 V$



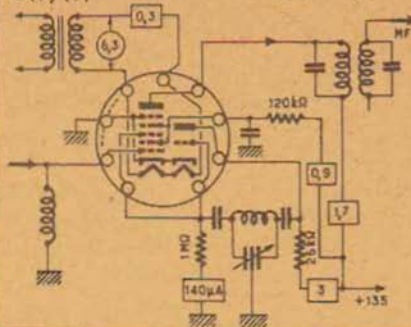
E88C (N)
UHF (T)

$S = 13,5$
 $p = 4,8 k\Omega$
 $V_a = -1,25$
 $\mu = 60$



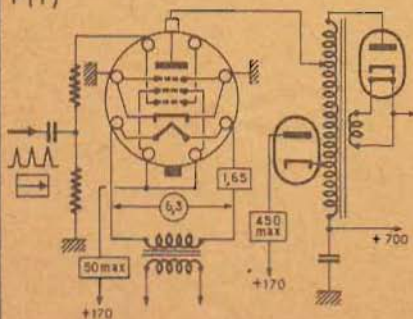
ECH84 (N)
C (V) (T)

TRIODE	HEPTODE
$S = 5,7$	$2,2$
$V = 0$	0



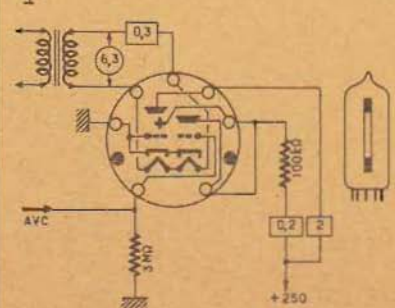
EL136 (O)
P (T)

$S = 21$
 $p = 4 k\Omega$
 $V = -8$

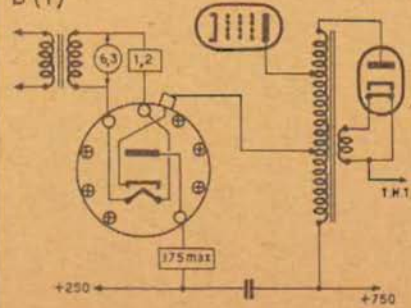


EM87 (N)
I

$V = 0 - 15$



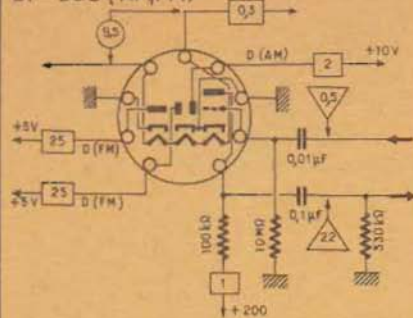
EY83 (N)
D (T)



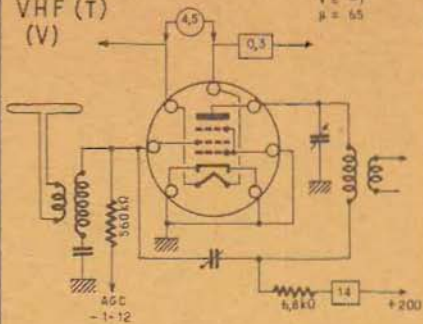
PABC80 (N)

BF+DDD (AM/FM)

S = 1,4
P = 50%
V = -2,5



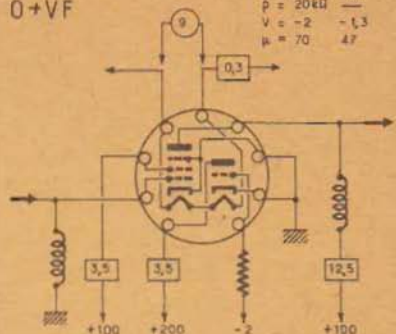
PC97 (M)

VHF (T)
(V) -
$$\begin{aligned} S &= 13 \\ P &= 5 \text{ k}\Omega \\ V &= -1 \\ \mu &= 65 \end{aligned}$$


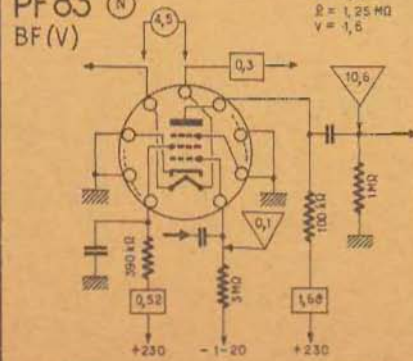
PCF802 (N)

 $0 + VF$

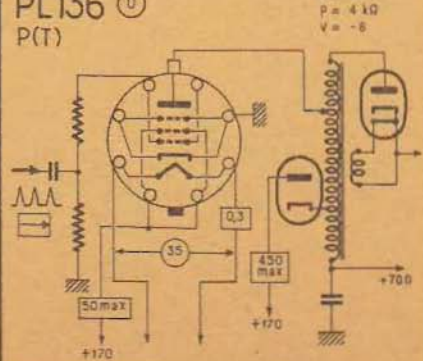
TRIODE	PENTHODE
$S = 3.5$	5.5
$\rho = 20k\Omega$	—
$V = -2$	-1.3
$\mu = 70$	47



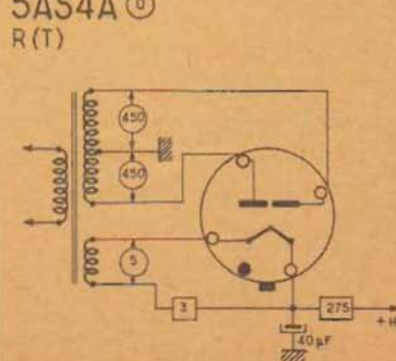
PF 83 (N)

 $BF(V)$
$$\begin{aligned} S &= 1,6 \\ R &= 1,25 \text{ MO} \\ V &= 1,6 \end{aligned}$$


PL136 ①

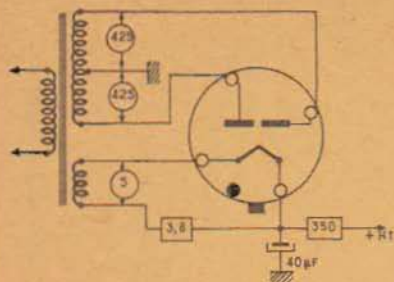
 $P(T)$
$$\begin{aligned} S &= 21 \\ p &= 4 \text{ k}\Omega \\ V &= -6 \end{aligned}$$


5AS4A ©

 $R(T)$ 

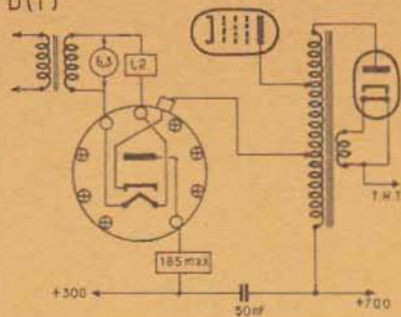
5V3 ①

R(T)



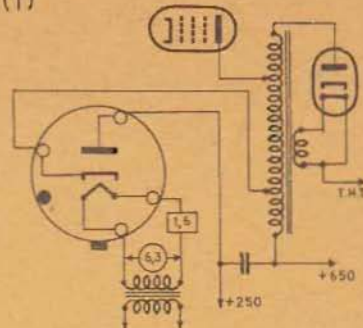
6AF3 ①

D(T)



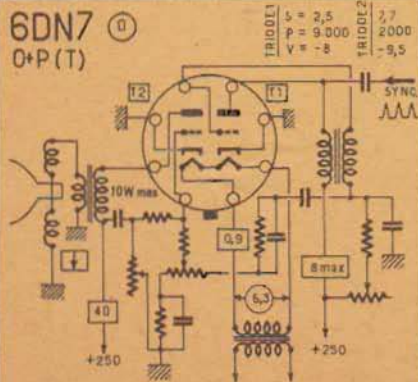
6DE4 ①

R(T)



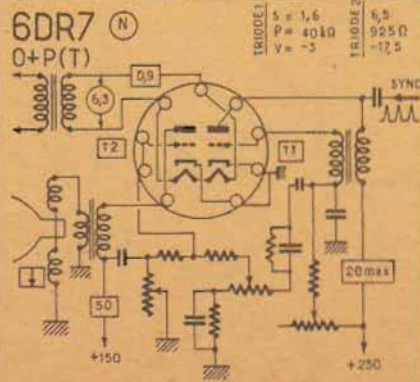
6DN7 ①

O+P(T)



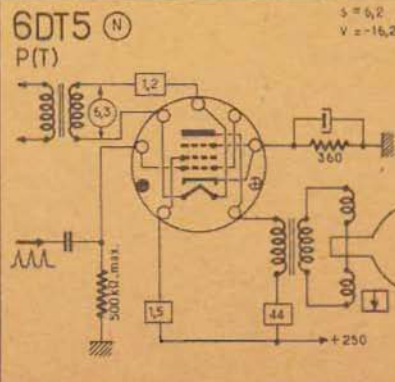
6DR7 ①

O+P(T)



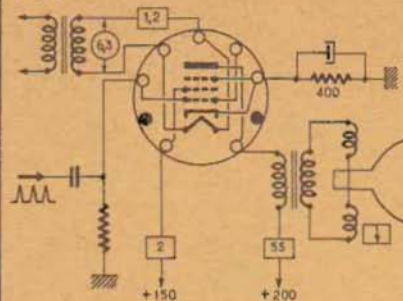
6DT5 ①

P(T)



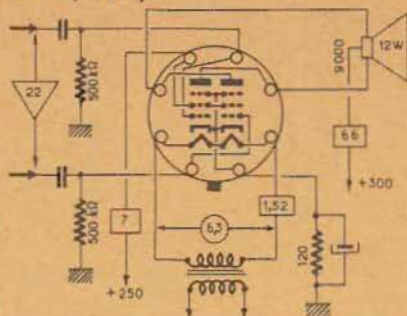
6DW5 (N)

P(T)

 $S = 8,5$
 $P = 15 \text{ k}\Omega$
 $V = -22$


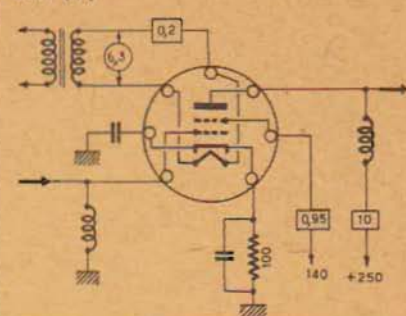
6DZ7 (D)

P+P (stereo)

 $S = 11,3$
 $P = 38 \text{ k}\Omega$
 $V = -7,3$


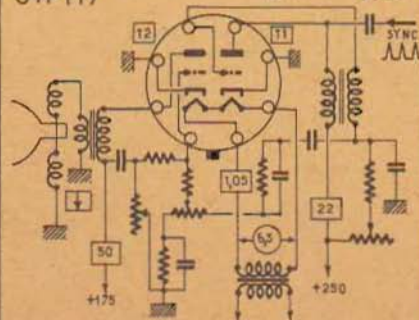
6EA5 (M)

VHF(T)

 $S = 8$
 $P = 0,15 \text{ M}\Omega$
 $V = -1$


6EA7 (O)

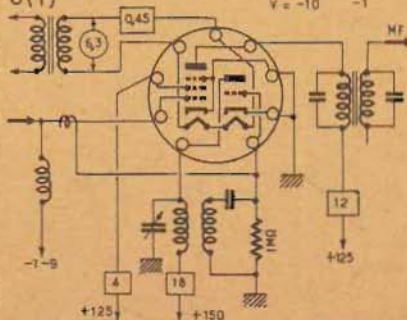
O+P(T)

 $S = 1,9$
 $P = 34 \text{ k}\Omega$
 $V = -3$


6EA8 (N)

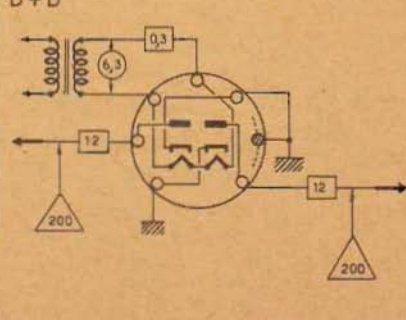
C(T)

TRIODE	PENTHODE
$S = 8,5$	$S = 6,4$
$P = 5000$	$P = 80 \text{ k}\Omega$
$V = -10$	$V = -1$



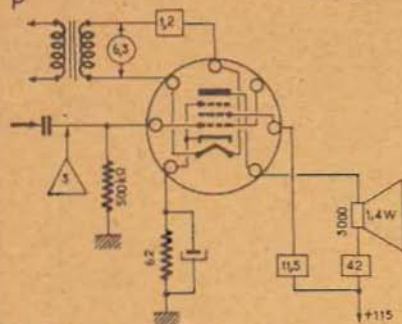
6EB5 (M)

D+D



6EH5 (M)

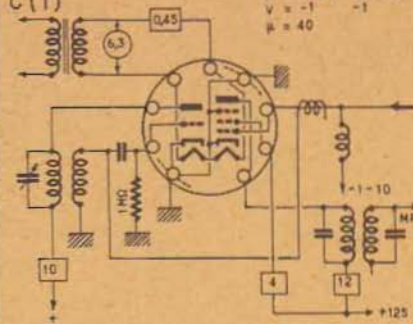
P

 $s = 14,6$
 $p = 11 \text{ k}\Omega$
 $V = -3$


6EH8 (N)

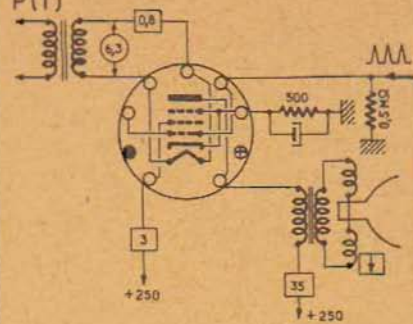
C (T)

TRIODE	PENTHODE
$s = 7,5$	$s = 6$
$p = 5000$	$p = 0,17 \text{ M}\Omega$
$V = -1$	$V = -1$
$\mu = 40$	



6EM5 (N)

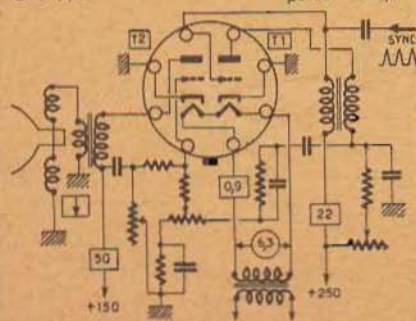
P (T)

 $s = 5,1$
 $V = -18$


6EM7 (O)

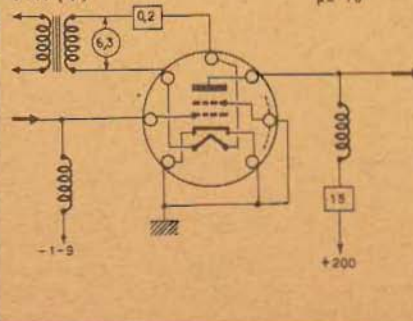
O+P (T)

TRIODE	PENTHODE
$s = 1,6$	$s = 2,2$
$p = 40 \text{ k}\Omega$	$p = 750$
$V = -3$	$V = -20$
$\mu = 68$	$\mu = 5,4$



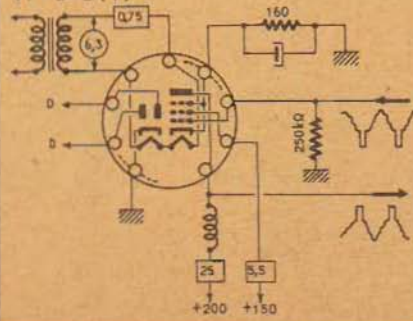
6ES5 (M)

VHF (V)

 $s = 9,5$
 $p = 7400$
 $V = -1$
 $\mu = 70$


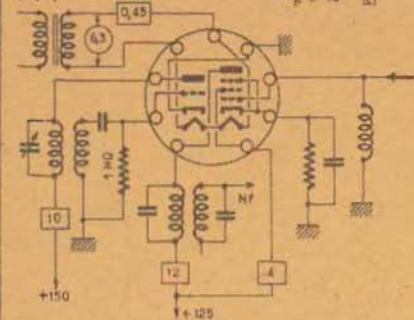
6ET7 (N)

VF+D+D (T)

 $s = 11,5$
 $p = 60 \text{ k}\Omega$
 $V = -3$


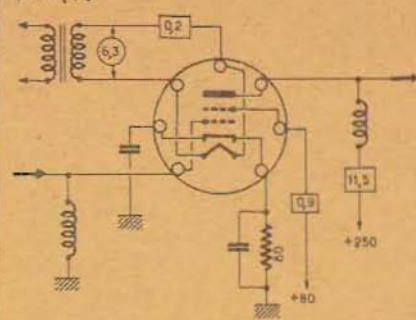
6EU8 (N)
C(T)

TRIODE
 $s = 8,5$
 $p = 5 \text{ k}\Omega$
 $V = -1$
 $\mu = 40$
 PENTODE
 $s = 6,4$
 $p = 80 \text{ k}\Omega$
 $V = -1 \text{ V}$



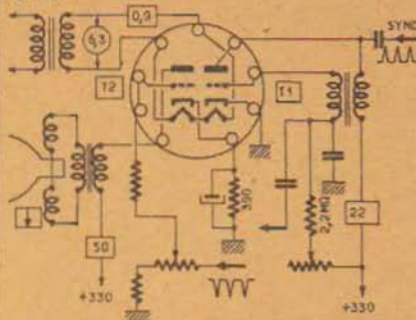
6EV5 (M)
VHF(T)

$s = 0,8$
 $p = 150 \text{ k}\Omega$
 $V = -1$



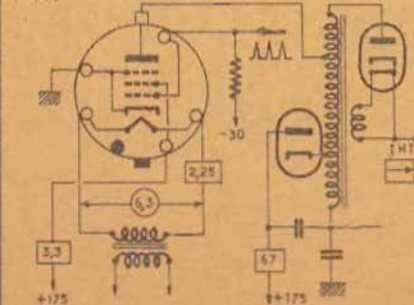
6EW7 (N)
O+VF

TRIODE 1
 $s = 2$
 $p = 8.750$
 $V = -11$
 TRIODE 2
 $s = 2,5$
 $p = 800$
 $V = -12,5$



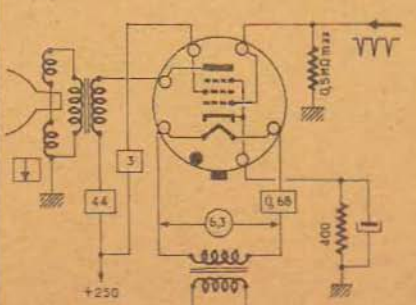
6EX6 (O)
P(T)

$s = 7,7$
 $p = 8.500$
 $V = -30$



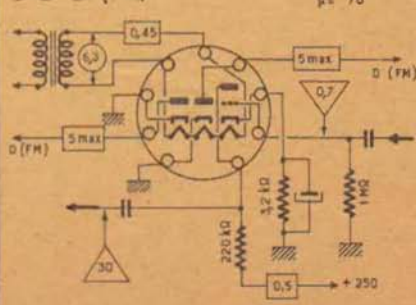
6EY6 (O)
P(T)

$s = 4,4$
 $p = 60 \text{ k}\Omega$
 $V = -17,5$



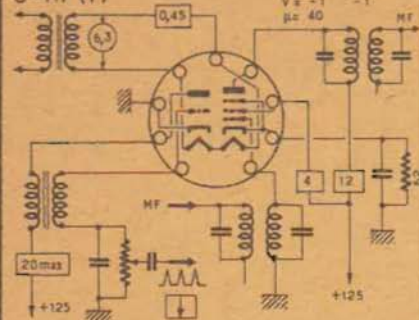
6FM8 (N)
D+D+BF(FM)

$s = 1,2$
 $p = 56 \text{ k}\Omega$
 $V = -3$
 $\mu = 70$



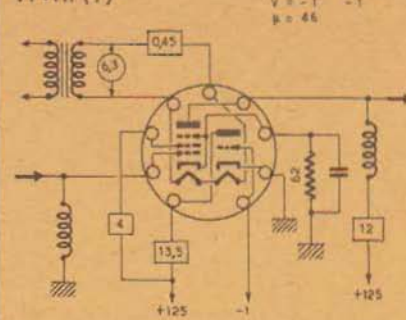
6FV8 (N)

O+HF (T)



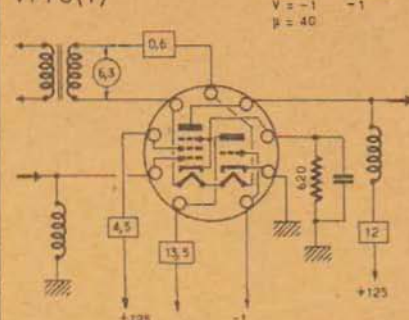
6GH8 (N)

VF+HF (T)



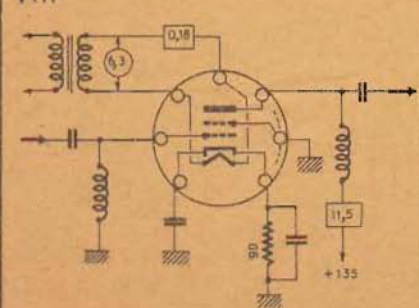
6GJ8 (N)

VF+O (T)



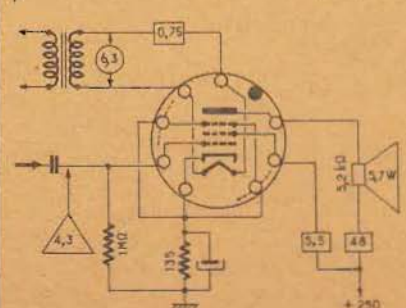
6GK5 (M)

VHF



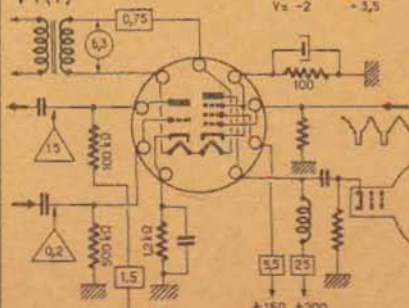
6GK6 (N)

P



6GN8 (N)

VT (T)



6HC8 (N)

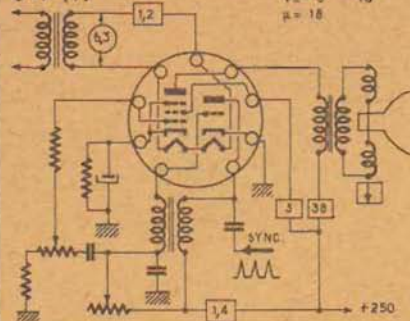
0+P (T)

TRIODE

$S = 2$
 $p = 34 \text{ k}\Omega$
 $V = -3$
 $\mu = 18$

PENTHODE

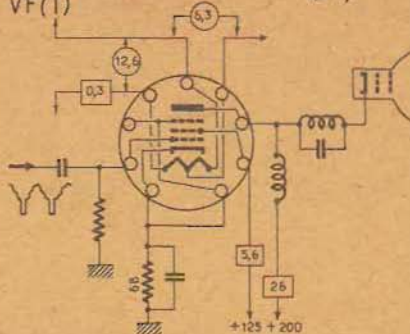
$S = 5,1$
 $p = 55 \text{ k}\Omega$
 $V = -15$



12DQ7 (N)

VF (T)

$S = 10,5$
 $p = 53 \text{ k}\Omega$
 $V = 1,5$

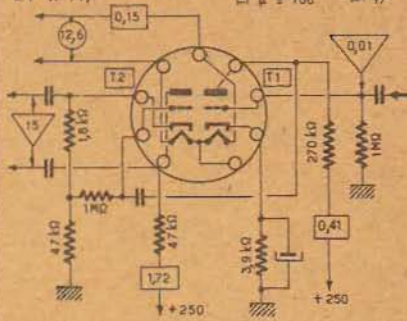


12DW7 (N)

BF (PH)

TRIODE 1
 $S = 1,6$
 $p = 62,5 \text{ k}\Omega$
 $V = -2$
 $\mu = 100$

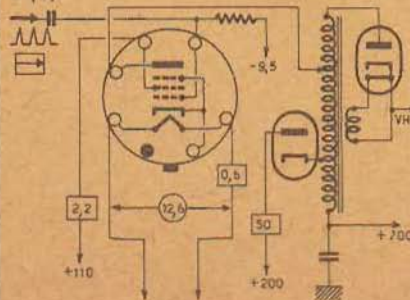
TRIODE 2
 $S = 2,2$
 $p = 7700$
 $V = -8,5$
 $\mu = 17$



12EN6 (O)

P (T)

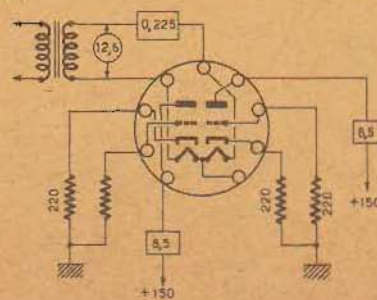
$S = 8$
 $p = 26 \text{ k}\Omega$
 $V = -3,5$



5965 (N)

M

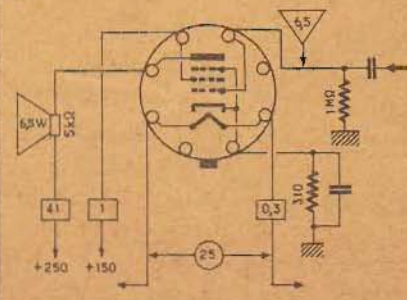
$S = 6,7$
 $p = 5,3 \text{ k}\Omega$
 $V = -7,5$



7561 (O)

P

$S = 10,5$
 $p = 12,4 \text{ k}\Omega$
 $V = -13$



Dans la
même série
que

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