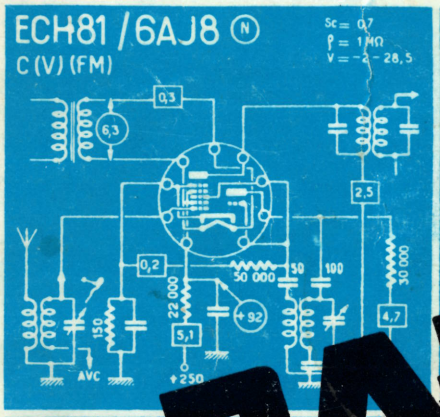
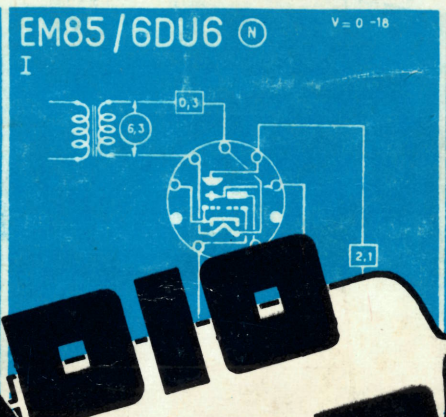
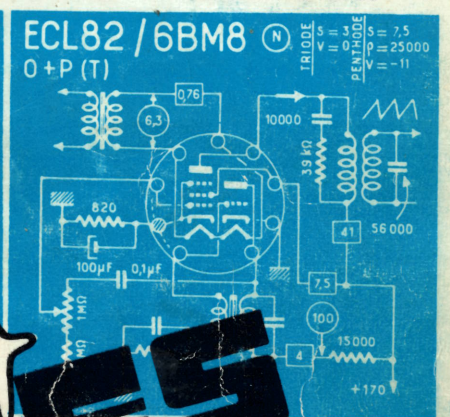
★ E. AISBERG ★ L. GAUDILLAT ★ R. DE SCHEPPER ★

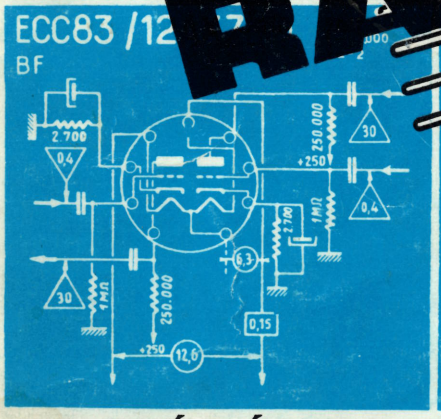
RADIO TUBES

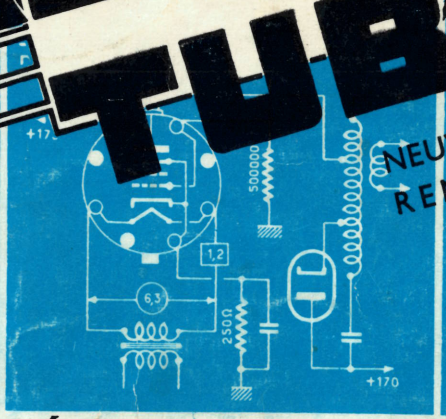
NEUVIÈME ÉDITION
REMISE A JOUR

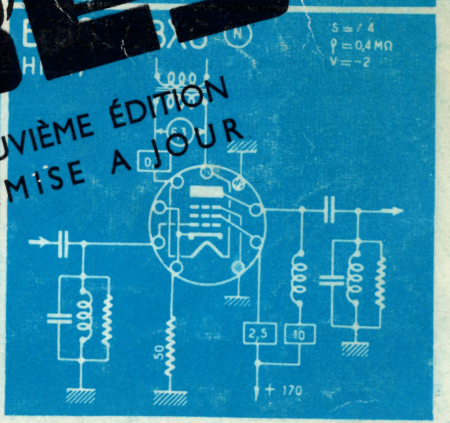












SOCIÉTÉ DES ÉDITIONS RADIO — PARIS

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

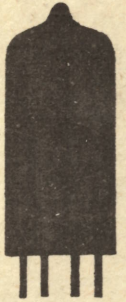
RADIO-TUBES

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 gebruikschema'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 fréquences 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 Loctal (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 : EBF80 / 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;
ρ - 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 ailleurs.

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, caracteristics 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 caracteristics 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 mesure 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 Loctal (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 caracteristics 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 caracteristics, internal capacities or base.

4. **STATIC CARACTERISTICS** (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:**

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.

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

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

The number inside this symbol is the maximum output power in watts (generally for 10% total distorsion). 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.


This 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 circulo y situada, bien debajo o al lado de la que expresa la función) :

A8 8 patitas de conexión tipo alemán;
E Europea antigua;
L Loctal;
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. CARACTERISTICAS ESTATICAS

(Parte superior derecha de los esquemas) :
S - Pendiente en miliamperios por voltio;
Sc - Pendiente de conversión en el caso de conversora 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 circulo indica la tensión contínua que existe entre dos puntos o entre un punto y masa, así como también la tensión alterna o contínua 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.

Pata conectada al interior; debe quedar libre obligatoriamente.

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

Pata 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 Fernsehröhren, 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 ersehen, in dem die hauptsächlichen 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 - Abstimmanzeige;
M - Spezialröhre für Messgeräte;
O - Oszillator;
P - Leistungsendstufe;
PH - Phasenumkehr (NF-Verstärkung);
R - Gleichrichter;
S - Impulssieb;
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 /6N8).

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;
ρ - Innenwiderstand;
V - Vorspannung des Steuergitters;
Req - Äquivalenter Rauschwiderstand (VHF- Röhren).

5. SCHALTSYMBOLE :

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 principeschema dat de waarden der bijzonderste elementen aanduidt.

De volgende afkortingen en symbolen komen erin voor :

1. FUNCTIE (onder de benaming der buis) :

BF - Audiofrequencieversterking;
D - Detectie, demodulatie;
C - Frequencieomvorming (mengbuis);
HF - Hoogfrequencie of middenfrequencie versterking;
I - Visueel afstemmingsbuis (toveroog);
M - Bijzondere buis voor meetapparaat;
O - Oscillator;
P - Eindversterkerbuis;
PH - Phaseomkeerder (in LF versterkers);
R - Gelijkrichter;
S - Scheidingsbuis (televisie);
T - Televisiebuis;
THT - Zeer hooge spanning (televisie);
V - Duidt aan dat de buis een veranderbare steilheid heeft;
VF - Videofrequencie versterking;
VHF - Buis kunnende werken op hogere frequencies 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 Loctal;
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. EBF80 / 6N8).

Het teken = duidt een volledige wisselbaarheid aan niettegenstaande enkele lichte struktuurverschillen (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 verhittingskring en elders in milliampere.

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

Het cijfer binnen de figuur geeft de maximum uitgangs vermogen in watts (in het algemeen voor 10 % totale vervorming). Het getal erbuiten geplaatst geeft de waarde van de aanbevole belastingsimpedancie (aanpassingswaarde).


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


Teken beduidend dat de buis in impulsregiem werkt.

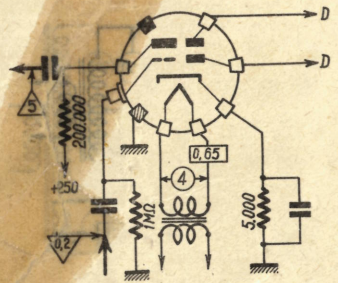

Inwendige verbinding (vrij laten !).


Inwendige scherm (moet met de chassis verbonden worden).


Mag gebruikt worden als steunpunt.

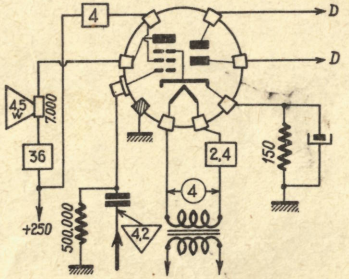
ABC1 (T)
D+BF

S = 2
ρ = 13500
V = −8



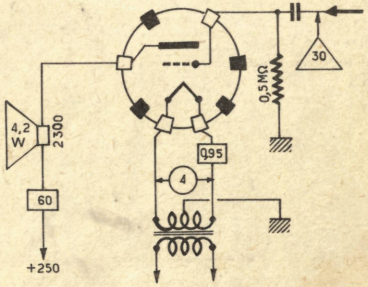
ABL1 (T)
D+P

S = 9
ρ = 50000
V = −6



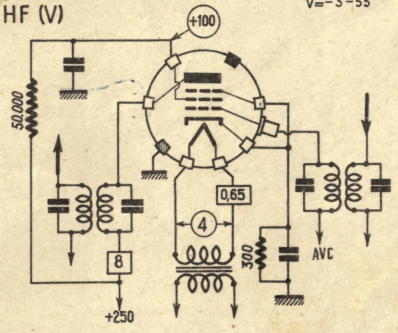
AD1 (T)
P

S = 6
ρ = 650
V = −45



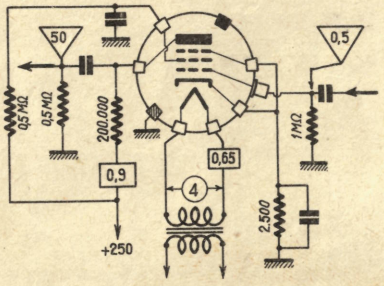
AF3 (T)
HF (V)

S = 1,8
ρ = 1,2MΩ
V = −3 − 55



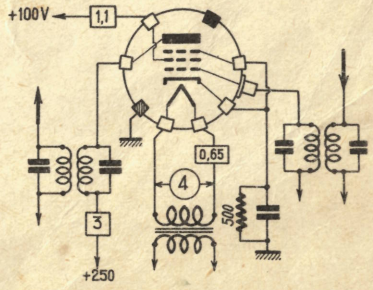
AF7 (T)
BF

S = 2,1
ρ = 2MΩ
V = −2



AF7 (T)
HF

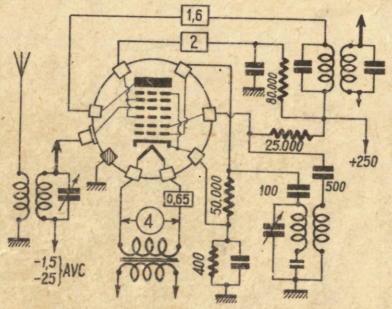
S = 2,1
ρ = 2MΩ
V = −2



AA61 = ECC40 _ AL2 = 4682

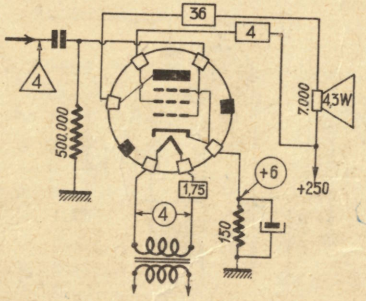
AK2 (T)
C(V)

Sc=0,6
P = 1,6 MΩ
V=−1,5−25

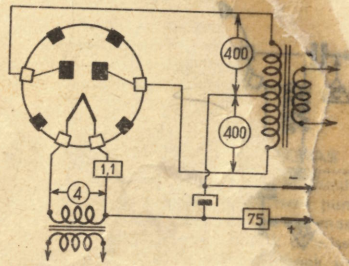


AL4 (T)
P

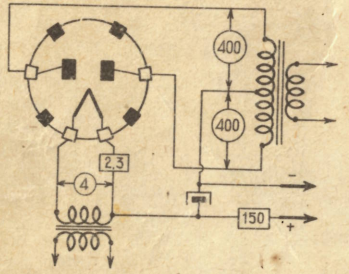
S = 9,5
P = 50.000
V=−6



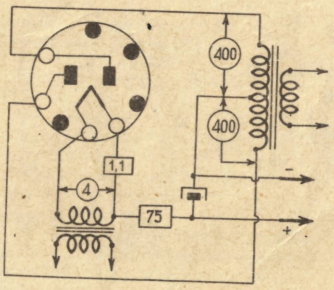
AZ1 (T)
R



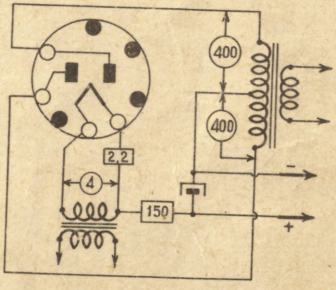
AZ4 (T)
R



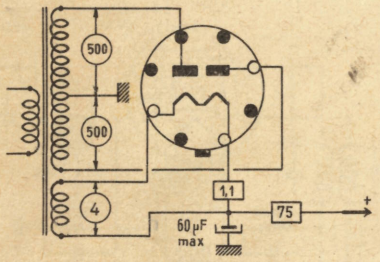
AZ11 (A8)
R



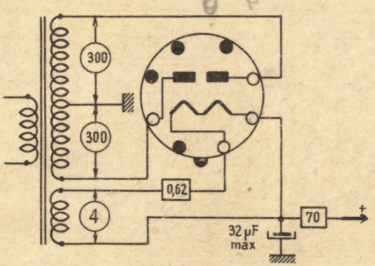
AZ12 (A8)
R



AZ31 ⓪
R

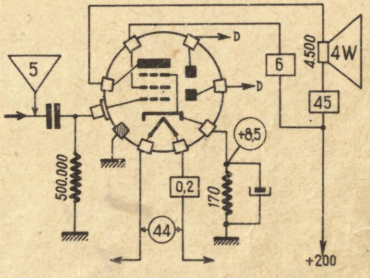


AZ41 Ⓡ
R



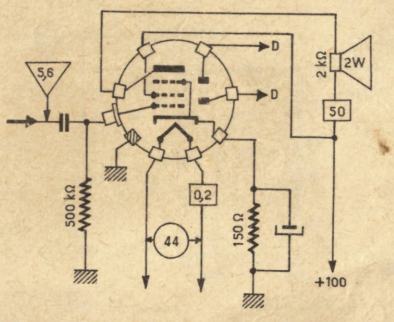
CBL1 Ⓣ
D+P

S = 8
ρ = 35000
V = -8,5



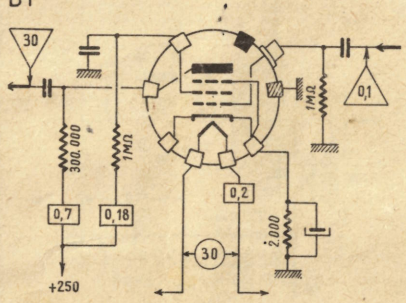
CBL6 Ⓣ
D+P

S = 8,5
ρ = 12000
V = -8,3



CF50 Ⓣ
BF

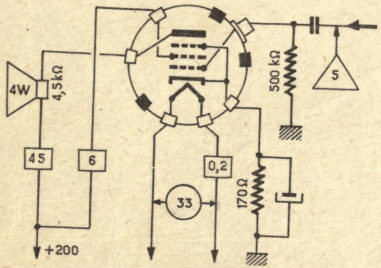
S = 3,3
ρ = 2,5 MΩ
V = -2



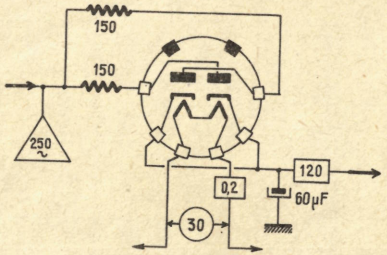
BF61 = EL41
BF62 = EL42
BF451 = UL41
CF61 = ECH41
CF141 = UCH41

CL4 (T)
P

S = 8
ρ = 45000
V = −8,5

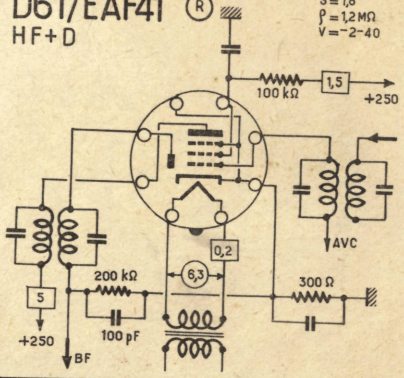


CY2 (T)
R



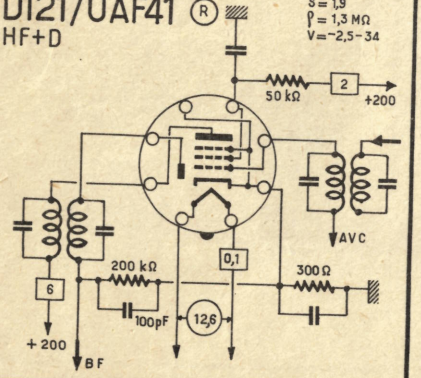
D61/EAF41 (R)
HF+D

S = 1,8
ρ = 1,2 MΩ
V = −2-40

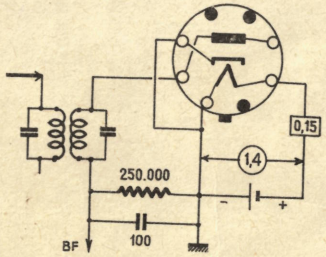


D121/UAF41 (R)
HF+D

S = 1,9
ρ = 1,3 MΩ
V = −2,5-34

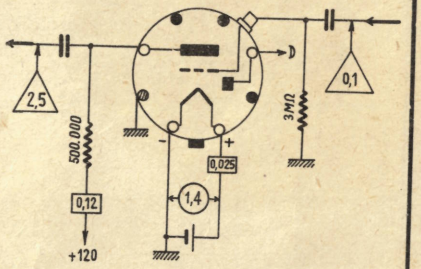


DA90/1A3 (O)
D



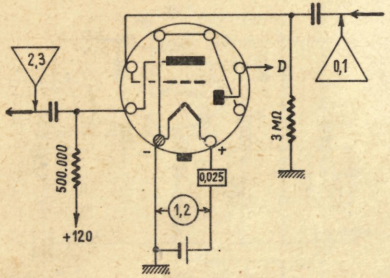
DAC21 (O)
D+BF

S = 0,4
ρ = 0,1MΩ
V = 0



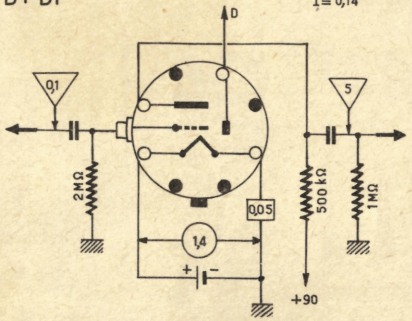
DAC25 ⓞ
D+BF

S = 0,35
ρ = 0,11 MΩ
V = 0



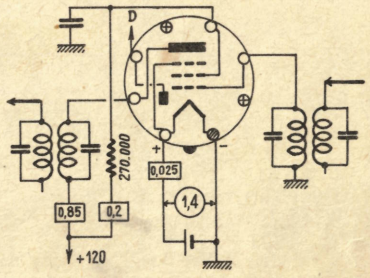
DAC32/1H5 ⓞ
D+BF

S = 0,275
ρ = 0,24 MΩ
V = 0
I = 0,14



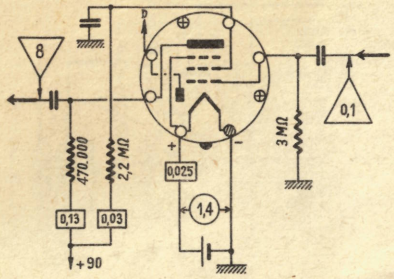
DAF40 Ⓡ
HF+D

S = 0,7
ρ = 2,5 MΩ
V = 0



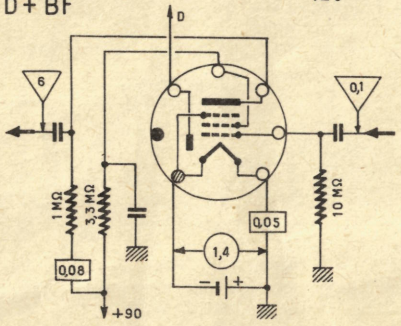
DAF41 Ⓡ
D+BF

S = 0,8
ρ = 1,5 MΩ
V = 0



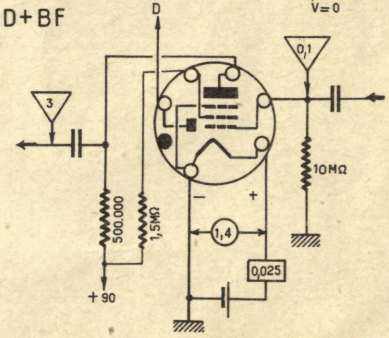
DAF91/1S5 Ⓜ
D+BF

S = 0,62
ρ = 0,6 MΩ
V = 0



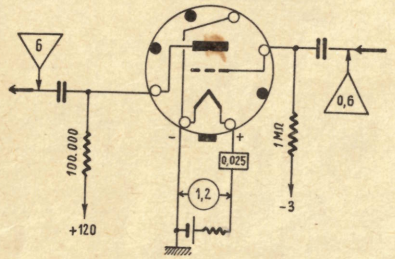
DAF96 Ⓜ
D+BF

S = 0,4
ρ = 1,6 MΩ
V = 0



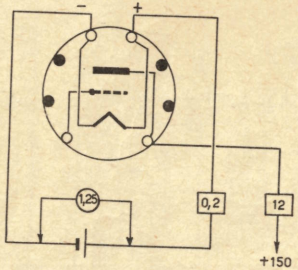
DC25 (O)
BF

S = 0,85
ρ = 15000
V = -5,5



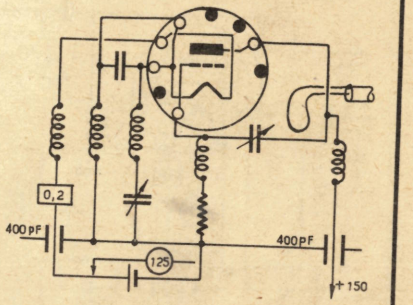
DC70 (SM)
O (500 MHz)

S = 3,4
ρ = 4000
V = -4,5



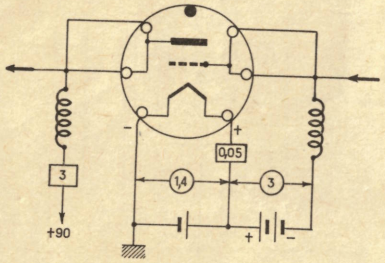
DC80 (N)
O (VHF)

S = 3,5
V = -3,5
F = 470 MHz
W = 0,45 W



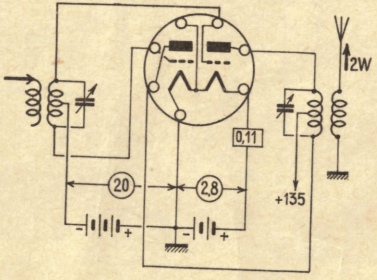
DC90 (M)
HF (VHF)

S = 1,1
V = -3



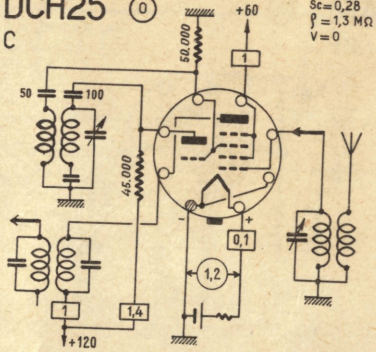
DCC90/3A5 (M)
HF (VHF) Cl. C

S = 1,8
ρ = 8.300
V = -2,5
I = 3,7



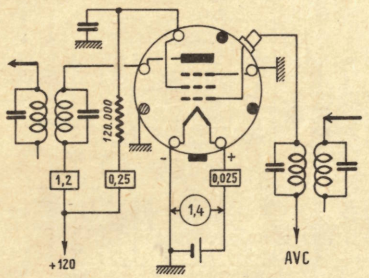
DCH25 (O)
C

Sc = 0,28
ρ = 1,3 MΩ
V = 0



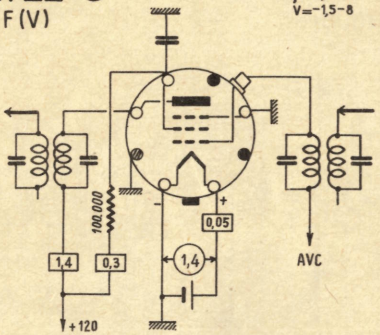
DF21 ⓞ
HF (V)

S = 0,7
ρ = 2,5 MΩ
V = 0-4,5



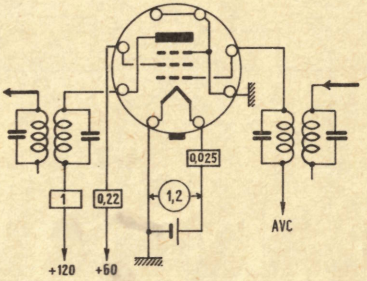
DF22 ⓞ
HF (V)

S = 1,1
ρ = 2,5 MΩ
V = -1,5-8



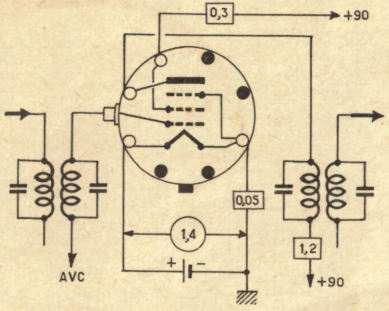
DF25 ⓞ
HF (V)

S = 0,63
ρ = 2,5 MΩ
V = 0-10



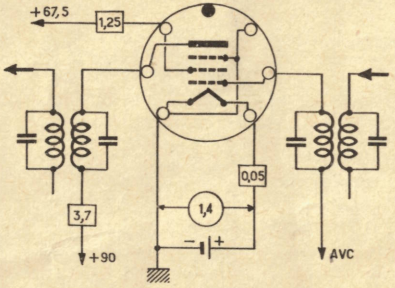
DF33/1N5 ⓞ
HF (V)

S = 0,75
ρ = 1,5 MΩ
V = 0-4



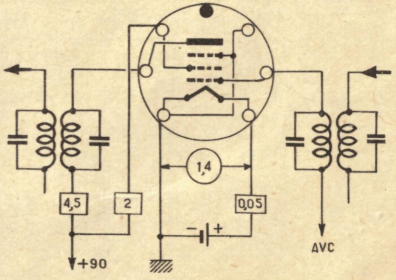
DF91/1T4 Ⓜ
HF (V)

S = 0,9
ρ = 0,5 MΩ
V = 0-18



DF92/1L4 Ⓜ
HF (V)

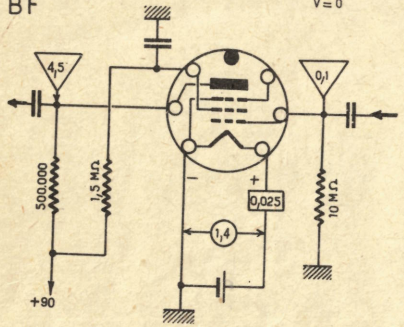
S = 1,02
ρ = 0,35 MΩ
V = 0-8



DF96/1AJ4 (M)

BF

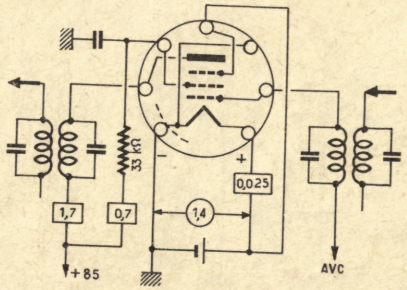
S = 0,85
ρ = 1,4 MΩ
V = 0



DF97/1AN5 (M)

HF (V)

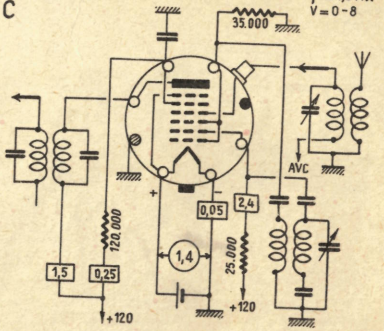
S = 0,94
ρ = 0,45 MΩ
V = 0-7



DK21 (O)

C

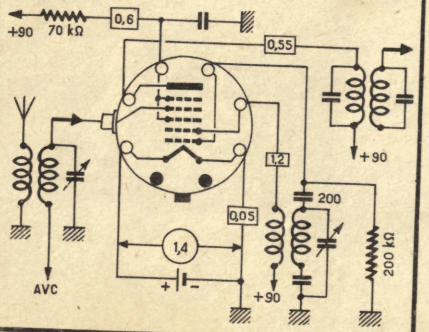
Sc = 0,5
ρ = 1,5 MΩ
V = 0-8



DK32/1A7 (O)

C (V)

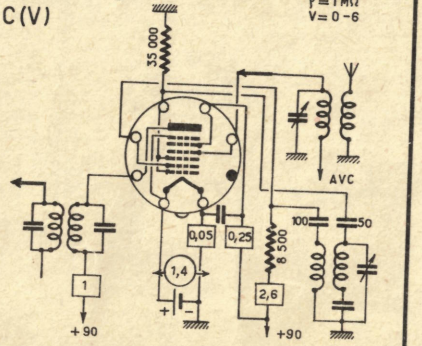
Sc = 0,25
ρ = 0,6 MΩ
V = 0 -3



DK40 (R)

C (V)

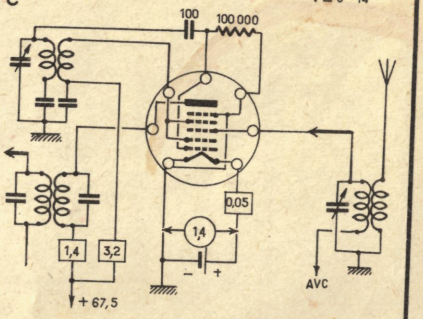
S = 0,42
ρ = 1 MΩ
V = 0 -6



DK91/1R5 (M)

C

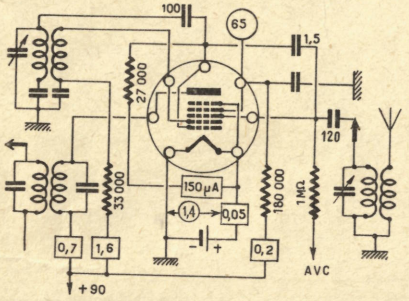
S = 0,3
ρ = 0,5 MΩ
V = 0 -14



DK92/1AC6 (M)

C (V)

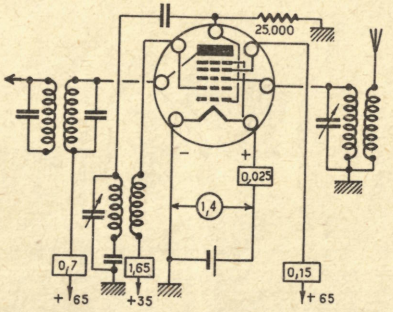
S = 0,325
ρ = 0,6 MΩ
V = 0 -12



DK96/1AB6 (M)

C

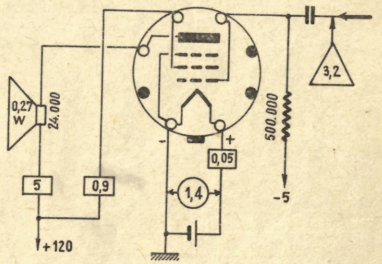
Sc = 0,3
ρ = 1 MΩ
V = 0



DL21 (O)

P

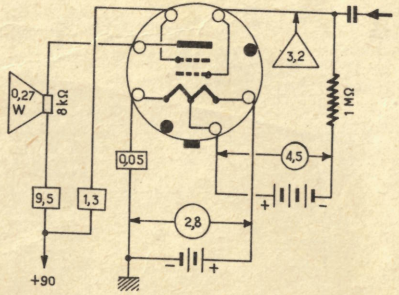
S = 1,4
ρ = 0,35 MΩ
V = -5



DL33/3Q5 (O)

P

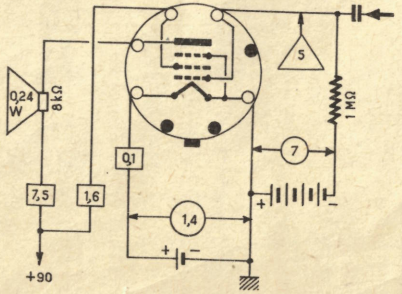
S = 2,2
ρ = 80000
V = -4,5



DL35/1C5 (O)

P

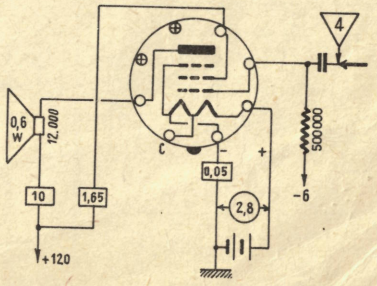
S = 1,5
ρ = 0,11 MΩ
V = -7,5



DL41 (R)

P

S = 2,55
ρ = 80000
V = -5,7



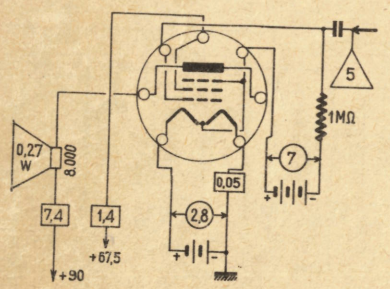
DF96

DL92

DL92/3S4 (M)

P

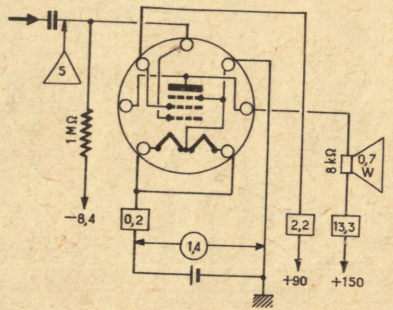
S = 1,6
ρ = 0,1 MΩ
V = −7



DL93/3A4 (M)

P

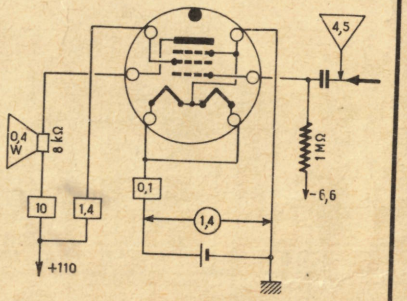
S = 1,9
V = −8,4



DL94/3V4 (M)

P

S = 2,2
ρ = 0,1 MΩ
V = −6,6

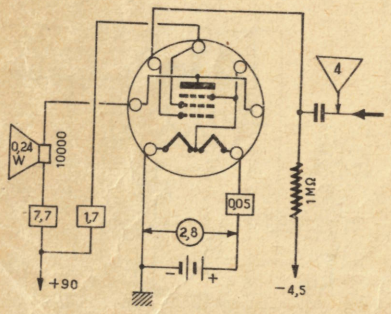


DLL21

DL95/3Q4 (M)

P

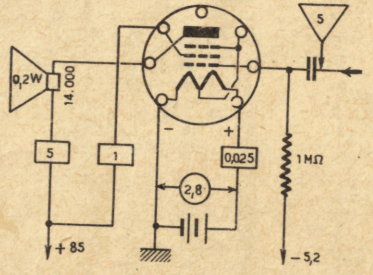
S = 2
ρ = 0,12 MΩ
V = −4,5



DL96/3C4 (M)

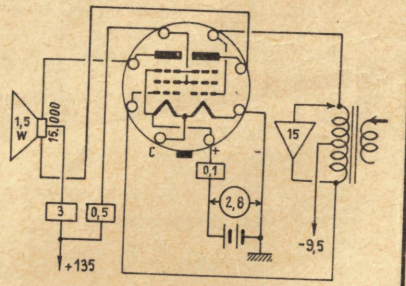
P

S = 1,4
V = −5,2



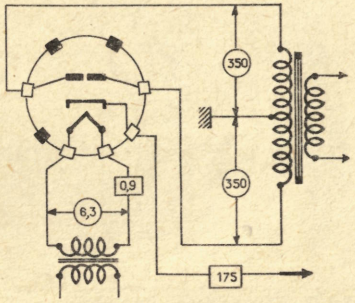
DLL21 (O)

P (Cl. B)



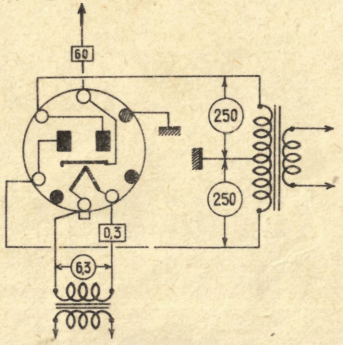
EZ4 (T)

R



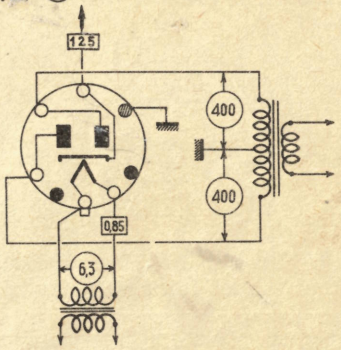
EZ11 (A8)

R



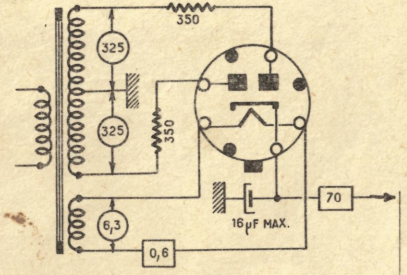
EZ12 (A8)

R



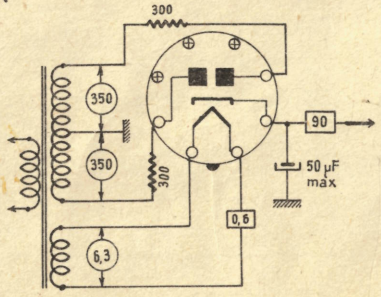
EZ35 (O)

R



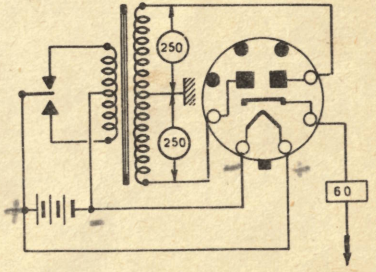
EZ40 / 6BT4 (R)

R



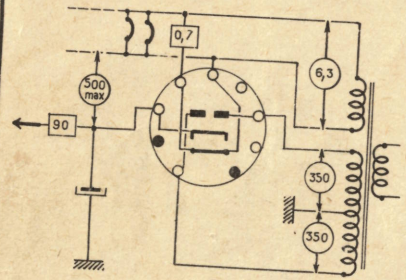
EZ41 (R)

R



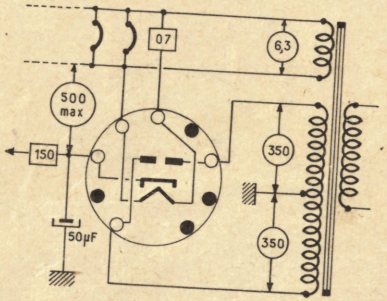
EZ80/6V4 (N)

R



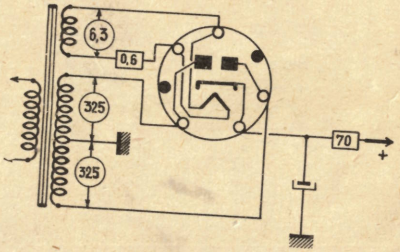
EZ81/6CA4 (N)

R



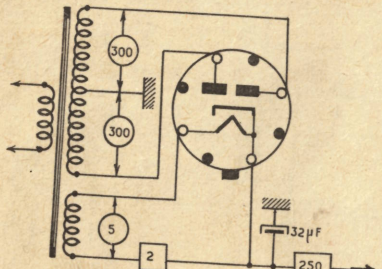
EZ90/6X4 (M)

R



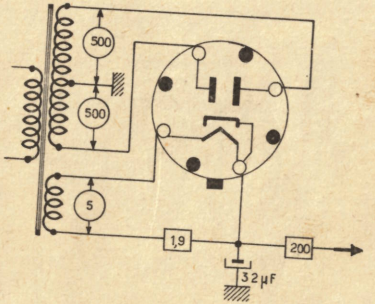
GZ32/5V4 (O)

R



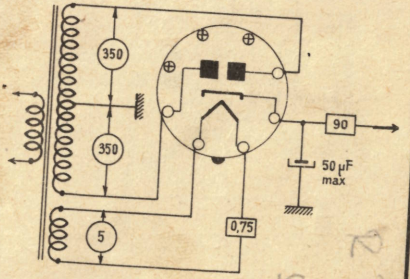
GZ34/5AR4 (O)

R



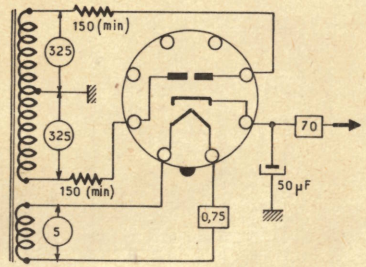
GZ40 (R)

R



GZ41 (R)

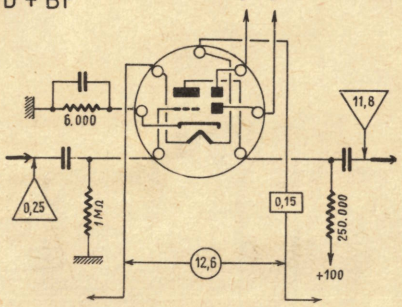
R



HBC90 / 12AT6 (M)

D + BF

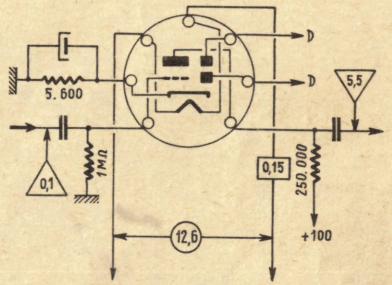
S = 1,2
ρ = 58.000
V = −3



HBC91 / 12AV6 (M)

D + BF

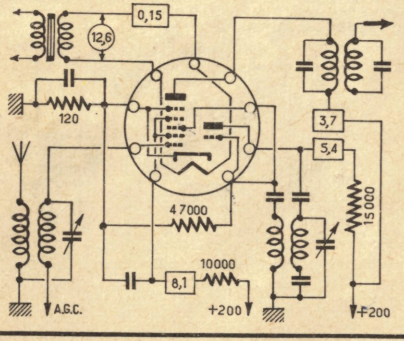
S = 1,6
ρ = 62.500
V = −2



HCH81 / 12D8 (N)

C (V)

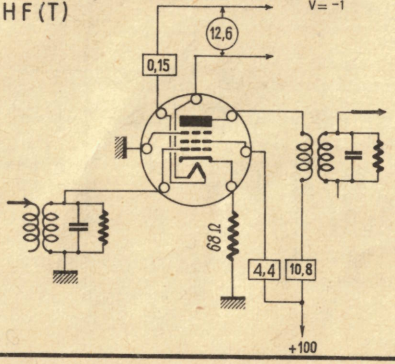
Sc = 0,77
ρ = 1 MΩ
V = −2,3−28



HF93 / 12BA6 (M)

HF (T)

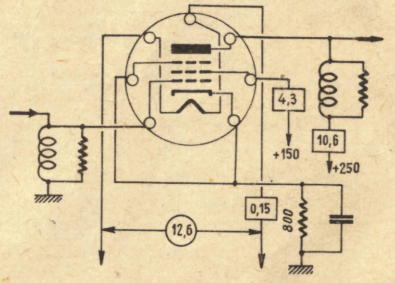
S = 4,3
ρ = 0,25 MΩ
V = −1



HF94 / 12AU6 (M)

HF (T)

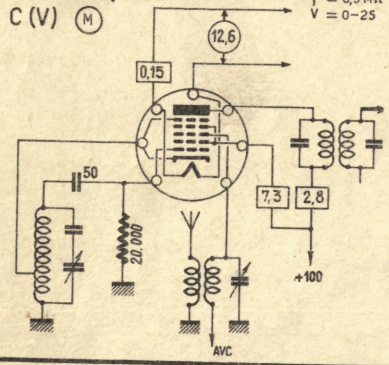
S = 5,2
ρ = 1 MΩ
V = −1



HK90 / 12BE6

C (V) (M)

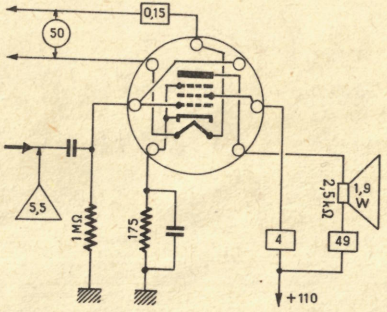
Sc = 0,45
ρ = 0,5 MΩ
V = 0–25



HL92 / 50C5

P (M)

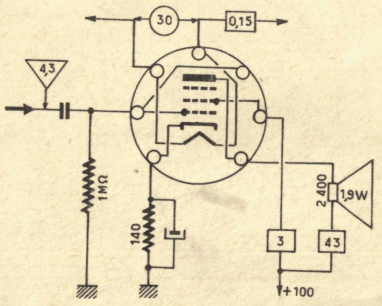
S = 7,5
ρ = 10000
V = −7,5



HL94 / 30A5 (M)

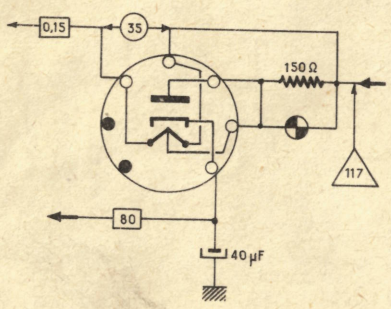
P

S = 9,2
ρ = 22 kΩ
V = −6,7



HY90 / 35W4 (M)

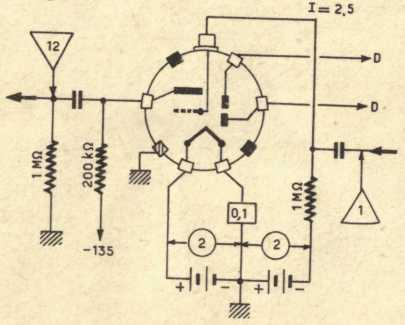
R



KBC1 (T)

D + BF

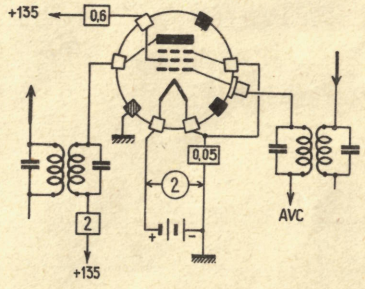
S = 1
ρ = 16000
V = 4,5
I = 2,5



KF3 (T)

HF (V)

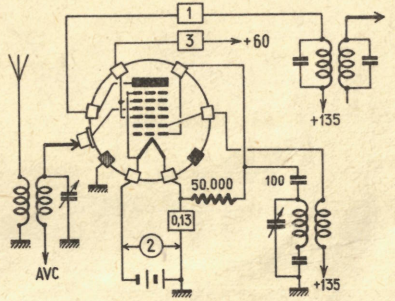
S = 0,65
ρ = 1,3 MΩ
V = −0,5–15



KK2 (T)

C(V)

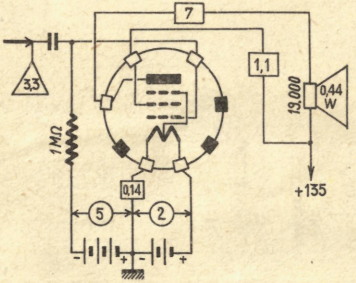
Sc = 0,3
ρ = 1,7 MΩ
V = −15−15



KL4 (T)

P

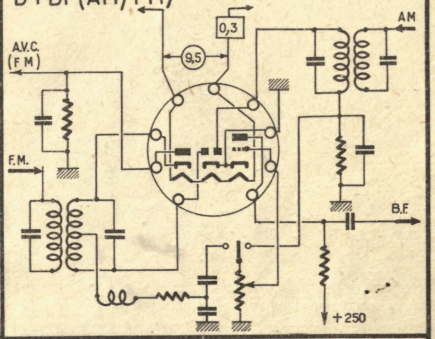
S = 2,1
ρ = 0,13 MΩ
V = −5



PABC80 / 9AK8 (N)

D + BF (AM/FM)

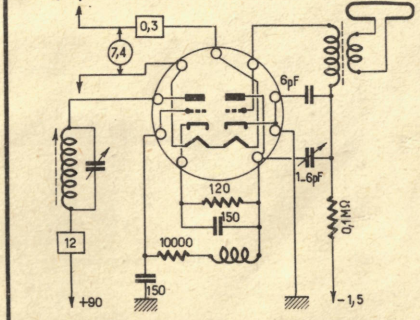
S = 1,2
ρ = 58000
V = −3



PCC84 / 7AN7 (N)

HF (T)

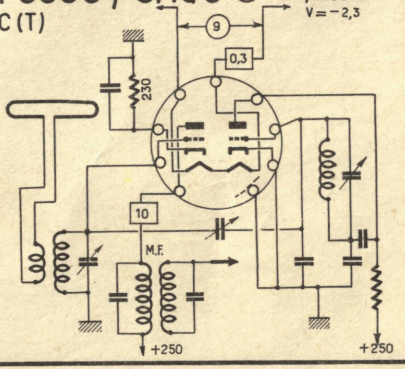
S = 6
ρ = 10000
V = −1,5



PCC85 / 9A08 (N)

C (T)

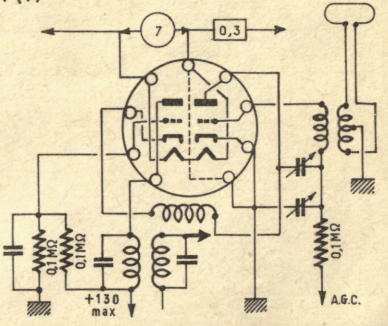
S = 6
ρ = 9500
V = −2,3



PCC88 (N)

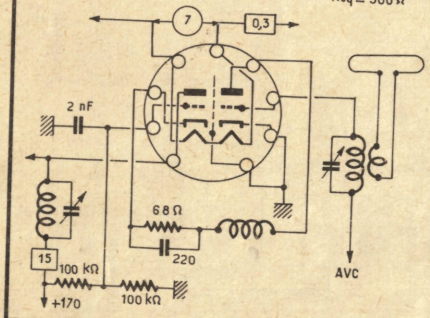
HF (T)

S = 12,5



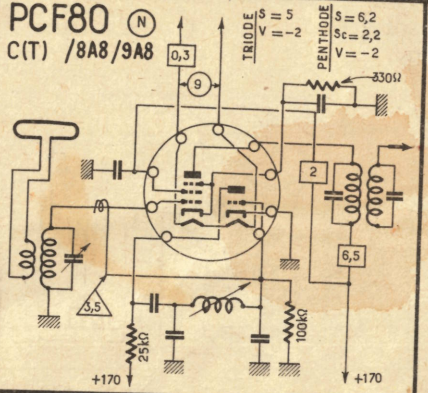
PCC89 (N)
HF(V) (T)

S = 12,5
ρ = 2,6 kΩ
V = 1,2 −12
Req = 300 Ω



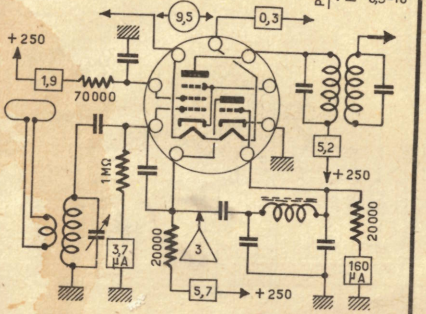
PCF80 (N)
C(T) /8A8/9A8

TRIODE S = 5 V = −2
PENTHODE S = 6,2 Sc = 2,2 V = −2



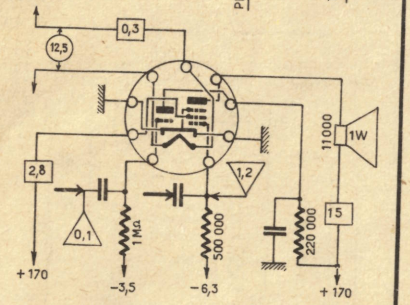
PCF82/9U8 (N)
C (T)

TRIODE S = 8,5 ρ = 5 kΩ V = −1
PENTHODE S = 5,2 Sc = 1,9 ρ = 0,4 MΩ V = −0,9−10



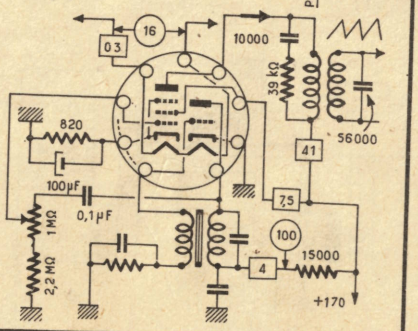
PCL81 (N)
BF + P(T)

PENTHODE S = 3,3 ρ = 0,15 MΩ V = −6,3
TRIODE S = 1,9



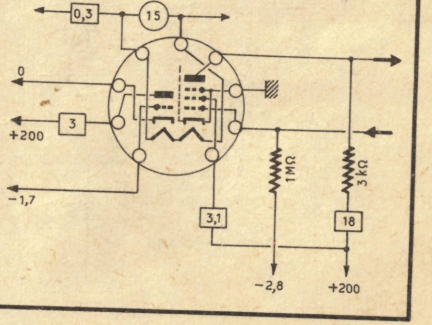
PCL82/16A8 (N)
0 + P(T)

TRIODE S = 3 V = 0
PENTHODE S = 7,5 ρ = 25000 V = −11



PCL84 (N)
S + VF

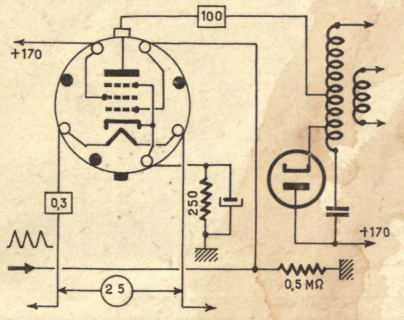
TRIODE S = 4 ρ = — V = −1,7 µ = 65
PENTHODE S = 10,4 ρ = 130 kΩ V = −2,9



PL36 / 25E5 ⓞ

P (T)

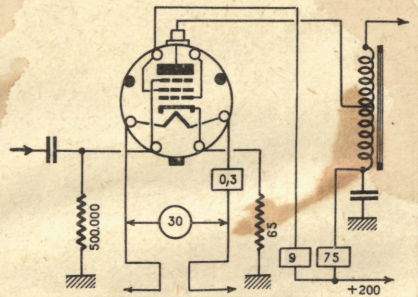
S = 8
ρ = 10 kΩ
V = −25



PL38 ⓞ

P(T)

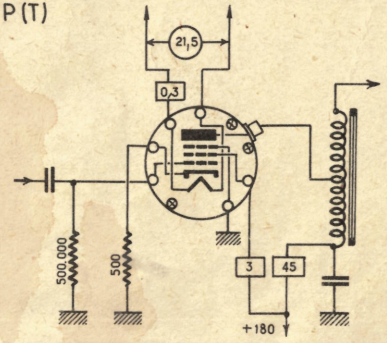
S = 13,5
ρ = 20.000
V = −5,5



PL81 / 21A6 Ⓝ

P(T)

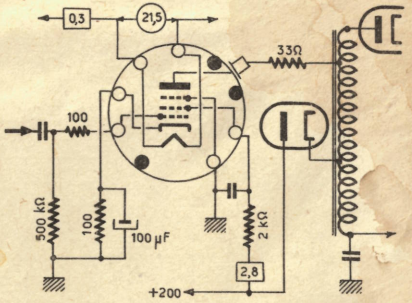
S = 6,5
v = −23,5



PL81F Ⓝ

P(T)

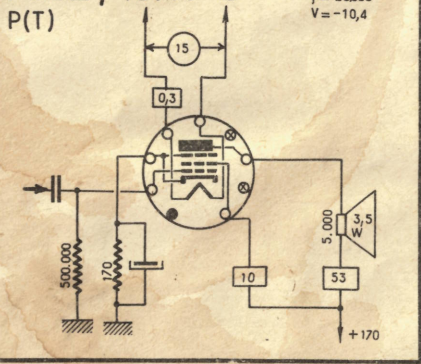
S = 6
ρ = 11 kΩ
V = − 28



PL82 / 16A5 Ⓝ

P(T)

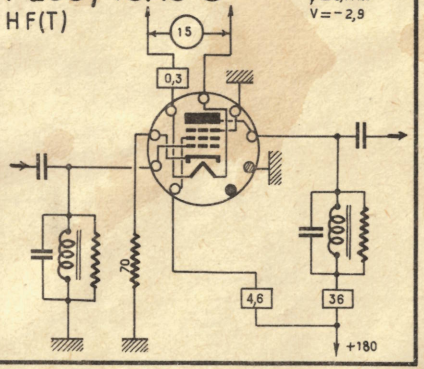
S = 9,5
ρ = 20.000
V = −10,4



PL83 / 15A6 Ⓝ

H F(T)

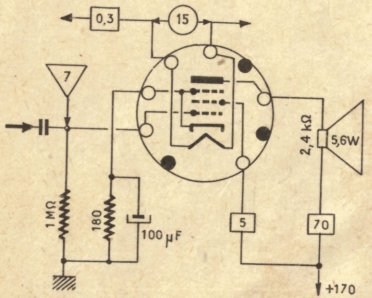
S = 10
ρ = 0,1 MΩ
V = − 2,9



PL84 (N)

P

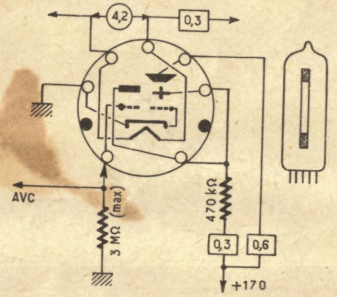
S = 10
ρ = 23 kΩ
V = −12,5



PM84 (N)

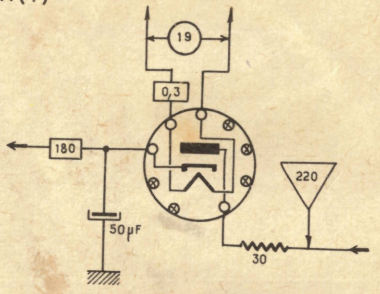
I

V = 0 −15



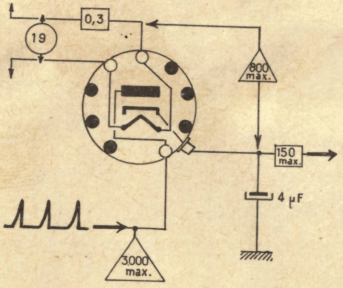
PY80 / 19W3 (N)

R (T)



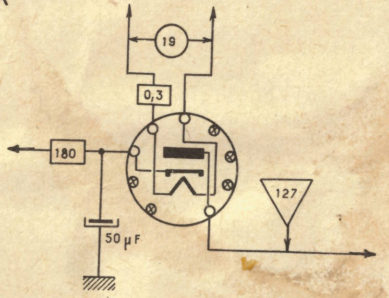
PY81 / 17Z3 (N)

R(T)(THT)



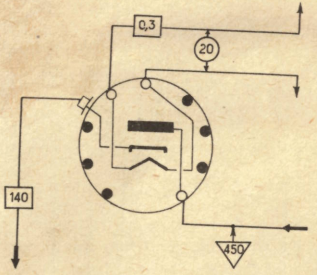
PY82 / 19Y3 (N)

R

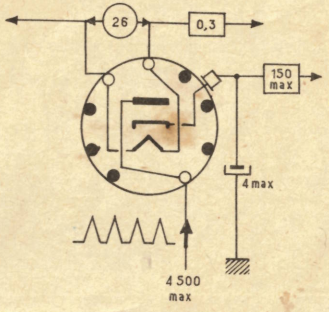


PY83 (N)

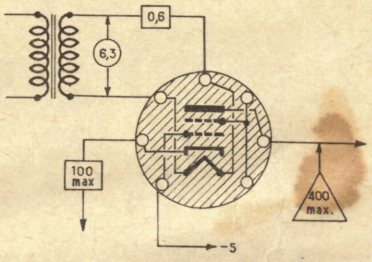
R (T)



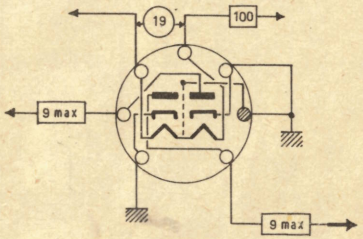
PY88 (N)
R(T)



RL21/2D21 (M)
THYR.

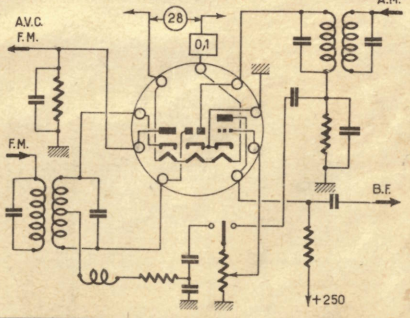


UAA91 (M)
D



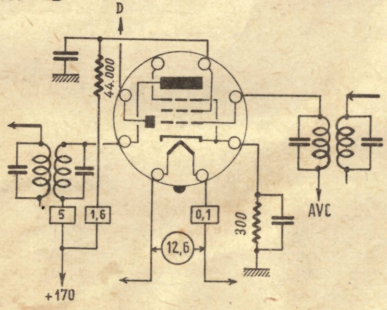
UABC80 (N)
D+BF(AM/FM)

S = 1,2
ρ = 58.000
V = -3



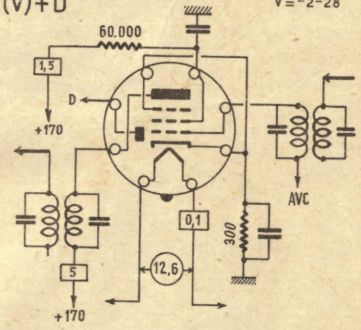
UAF41 (R)
HF+D

S = 1,6
ρ = 1,2 MΩ
V = -2 -22

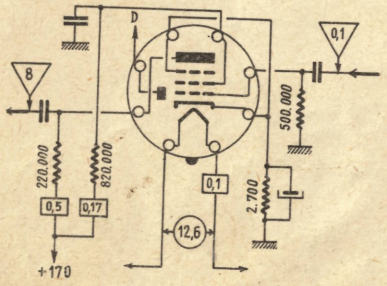


UAF42 (R)
HF(V)+D

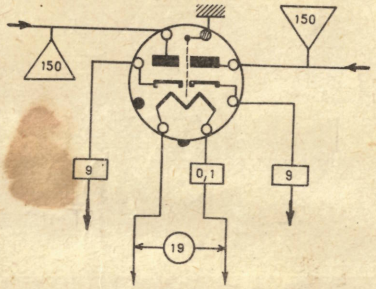
S = 2
ρ = 0,9 MΩ
V = -2-28



UAF42/12S7 (R)
D+BF

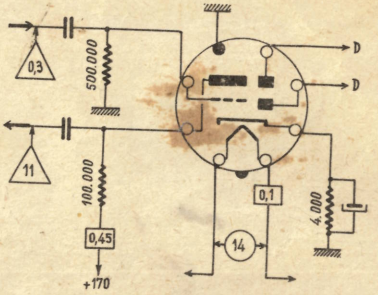


UB41 (R)
D



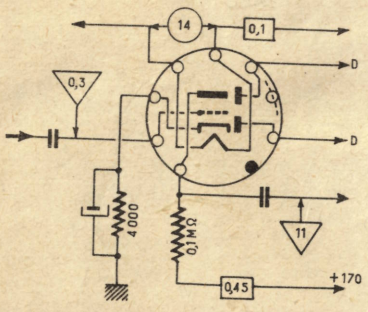
UBC41/14L7 (R)
D+BF

S = 1,65
ρ = 42.000
V = 1,5



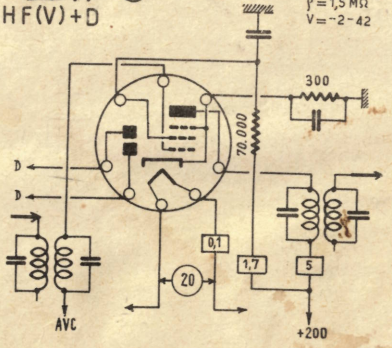
UBC81 (N)
BF+D

S = 1,65
ρ = 42.000
V = 1,5



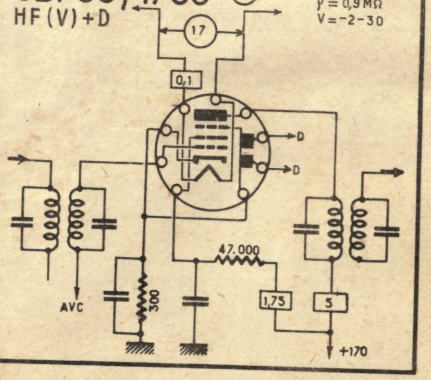
UBF11 (A8)
HF(V)+D

S = 1,6
ρ = 1,5 MΩ
V = -2-42



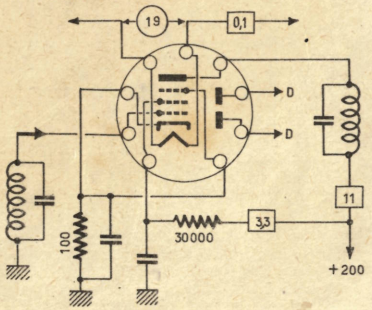
UBF80/17C8 (N)
HF(V)+D

S = 2,2
ρ = 0,9 MΩ
V = -2-30



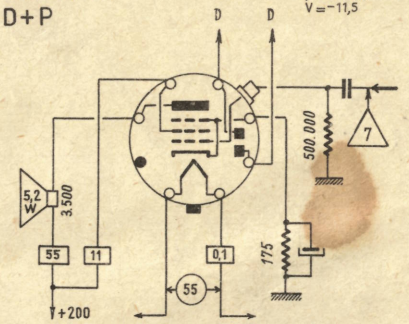
UBF89 (N)
HF + D(T)

S = 4,5
ρ = 0,6 MΩ
V = −1,5



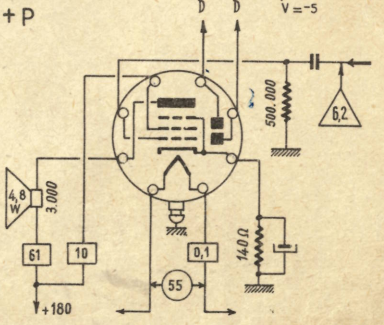
UBL1 (O)
D + P

S = 8,5
ρ = 20.000
V = −11,5



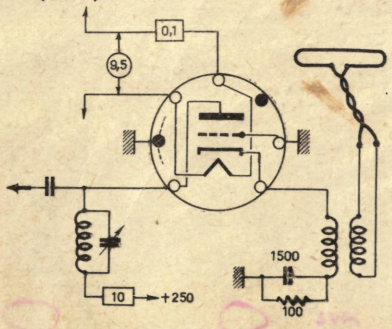
UBL21 (L)
D + P

S = 9
ρ = 22.000
V = −5



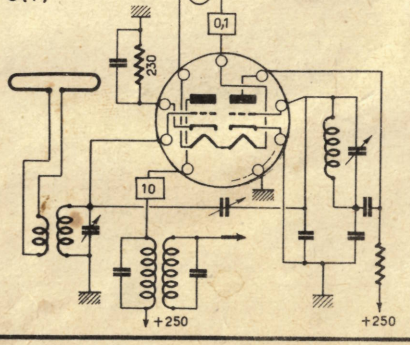
UC92 (N)
HF (VHF)

S = 5
ρ = 12.000
V = −2



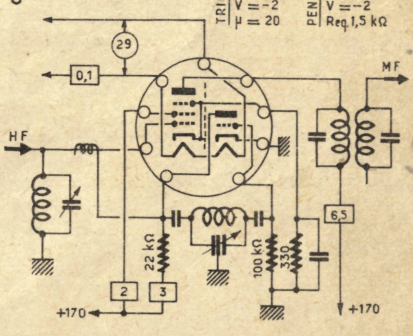
UCC85 (N)
C(T)

S = 6
ρ = 9.500
V = −2,3



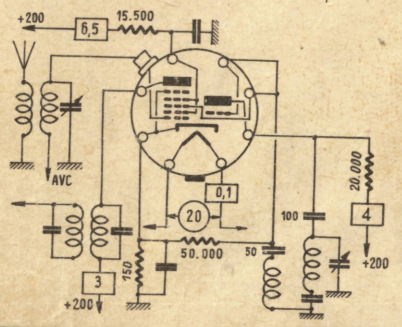
UCF80 (N)
C

TRIODE: Sc = —, S = 5, S = —, V = −2, μ = 20
PENTHODE: Sc = 2,2, S = 6,2, S = 0,4 MΩ, V = −2, Req 1,5 kΩ



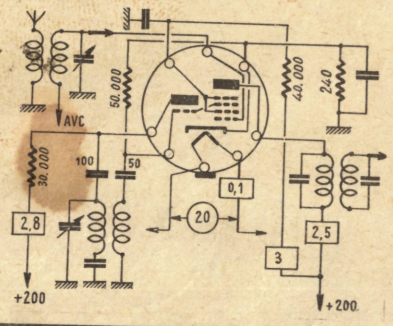
UCH4 (O)
HF(V)+BF

HEXODE: S = 2,2 ; ρ = 0,7 MΩ ; V = −21-27
TRIODE: S = 3,2 ; ρ = 8000 ; V = −2



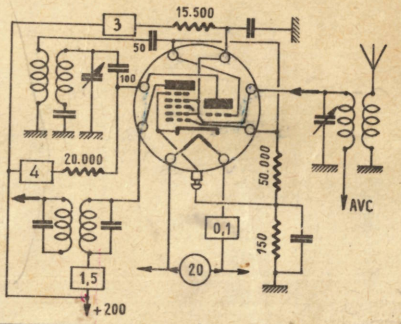
UCH11 (A8)
C(V)

Sc = 0,75 ; ρ = 1MΩ ; V = −2-18



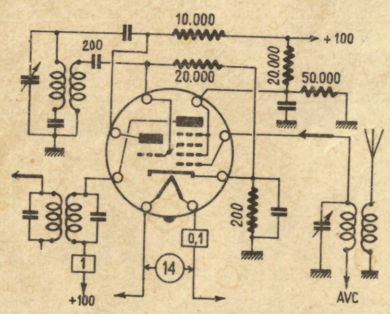
UCH21 (L)
C(V)

Sc = 0,58 ; ρ = 1MΩ ; V = −2-28



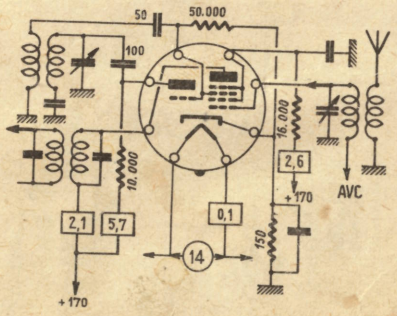
UCH41 (R)
C(V)

Sc = 0,5 ; ρ = 1MΩ ; V = −1-14



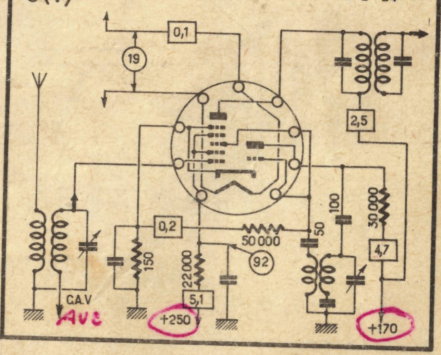
UCH42 / 14K7 (R)
C(V)

Sc = 0,67 ; ρ = 1MΩ ; V = −1,8-25



UCH81 / 19D8 (N)
C(V)

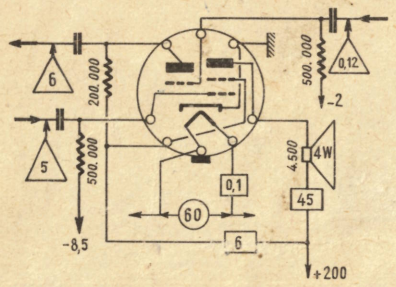
S = 0,7 ; ρ > 1MΩ ; V = −2 -24



200 − 170V = 4,2K Ω.

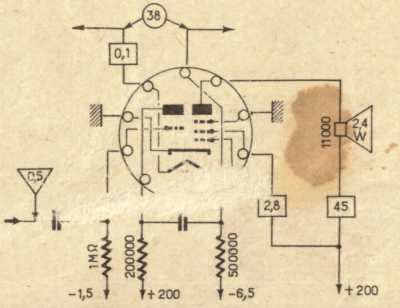
UCL11 (A8)
BF + P

P: S = 9, ρ = 18.000, V = −8,5
BF: S = 2,1, ρ = 30.000, V = −2



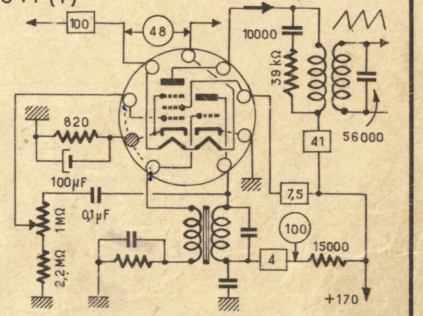
UCL81 (N)
BF + P

S = 8,7
ρ = 18.000
V = −6,5



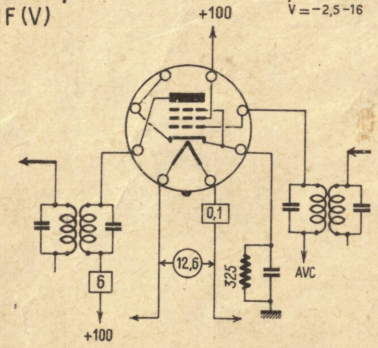
UCL82 (N)
0+P(T)

Triode: S = 3, V = 0
Penthode: S = 7,5, ρ = 25.000, V = −11



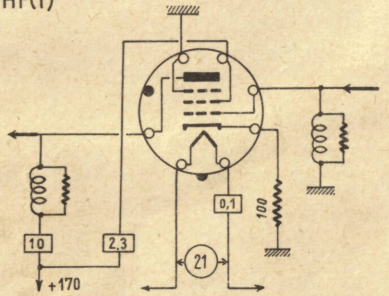
UF41 / 12AC5 (R)
HF (V)

S = 1,9
ρ = 0,6 MΩ
V = −2,5 −16



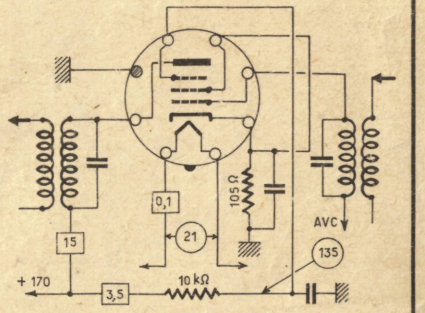
UF42 (R)
HF(T)

S = 8,5
ρ = 0,3 MΩ



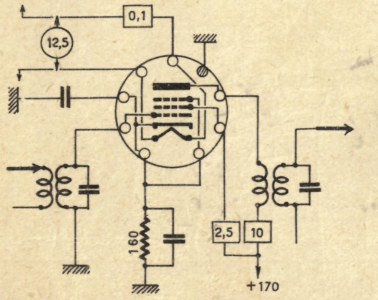
UF43 (R)
HF(T)(V)

S = 6,3
ρ = 0,3 MΩ
V = −0,2 −19



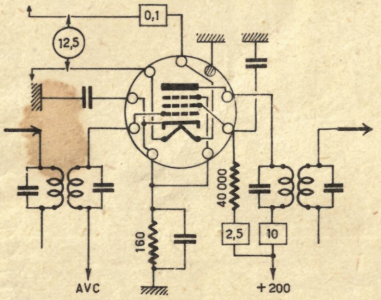
UF80 (N)
HF(T)

S = 7,4
ρ = 0,4 MΩ
V = −2



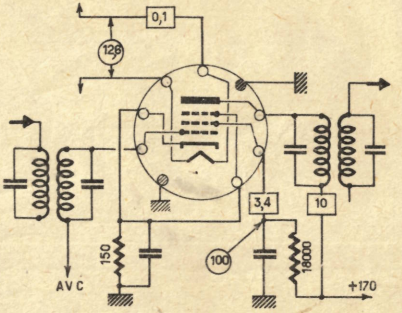
UF85 (N)
HF(V)

S = 6,1
ρ = 0,4 MΩ
V = −2 − 35



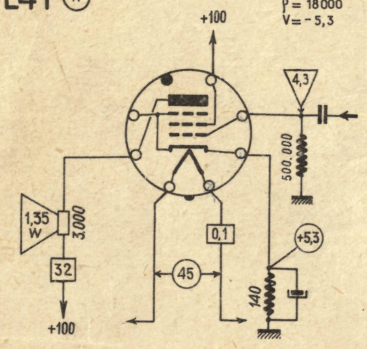
UF89 (UF41) (N)
HF(V)

S = 3,6
ρ = 0,5 MΩ
V = −3 −10



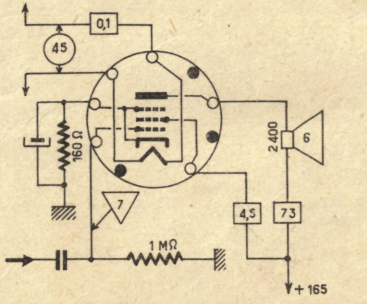
UL41 (R)
P

S = 8,5
ρ = 18000
V = − 5,3



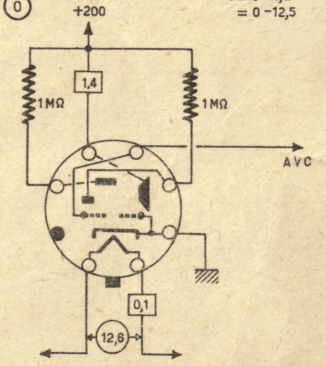
UL84/45B5 (R)
P

S = 10,5
ρ = 20 kΩ
V = −12



UM4 (O)
T

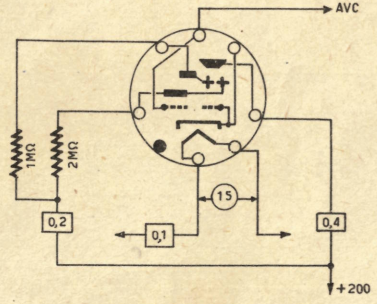
V = 0 −4,2
= 0 −12,5



UM11 (A8)

V= 0-20

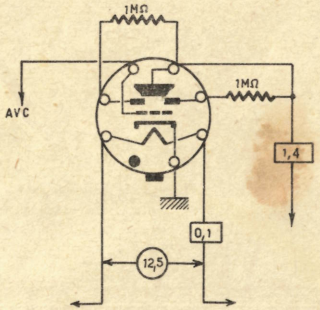
I



UM34 (O)

V= 0-42
= 0-12,5

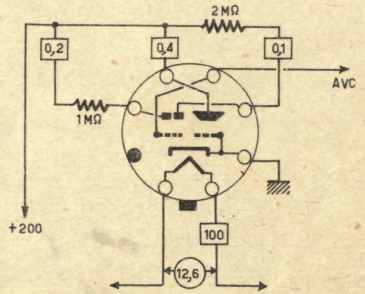
I



UM35 (O)

V= 0-3
0-20

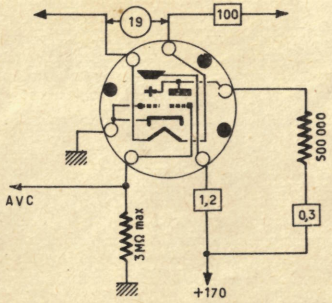
I



UM80 = UM81 (N)

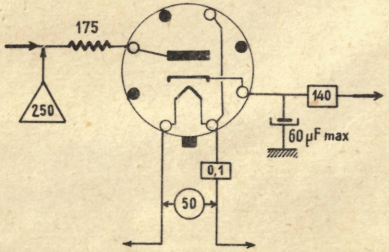
V=-1-12

I



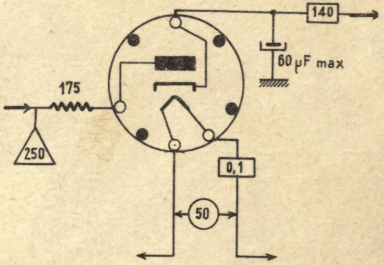
UY1N (O)

R

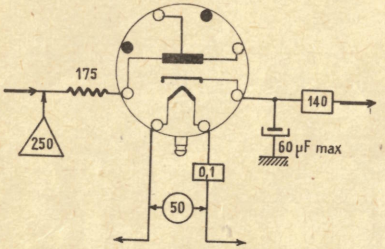


UY11 (A8)

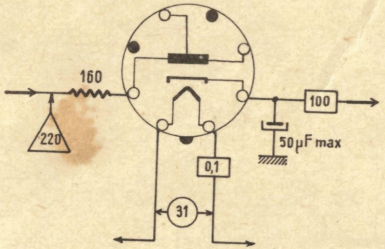
R



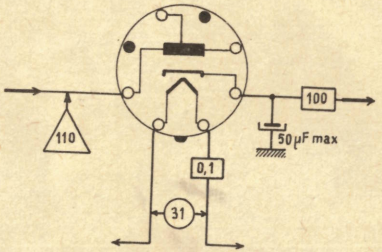
UY21 (L)
R



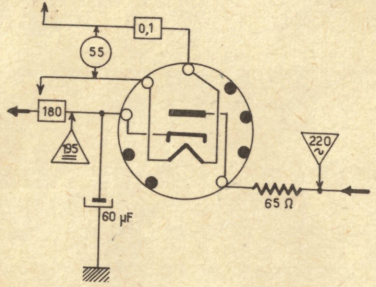
UY41 / 31A3 (R)
R



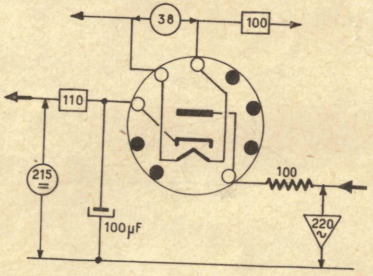
UY42 (R)
R



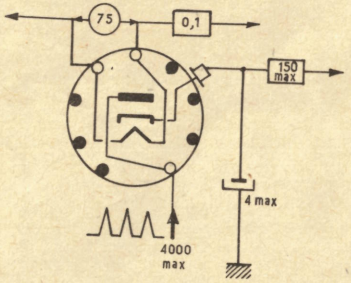
UY82 (M)
R



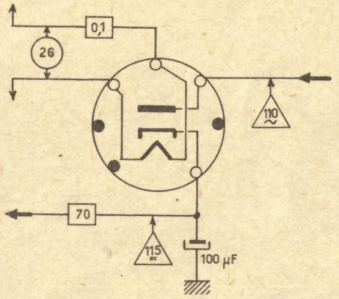
UY85 / 38A3 (N)
R



UY88 (N)
R (T)

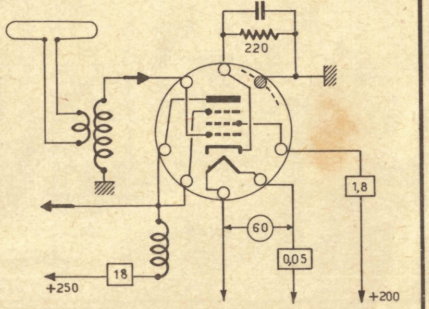


UY92 (M)
R



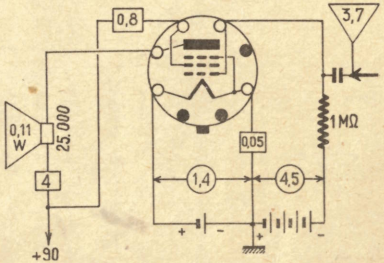
VF14 (A8)
HF(T)

S = 9,5
ρ = 45 kΩ
V = -4,5
Req = 600 Ω



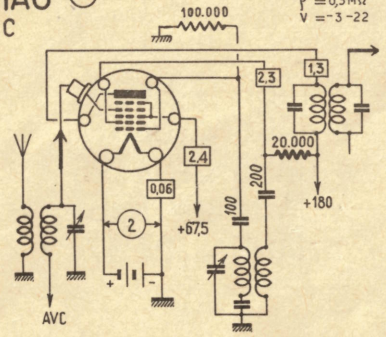
1A5 (O)
P

S = 0,85
ρ = 0,3 MΩ
V = -4,5



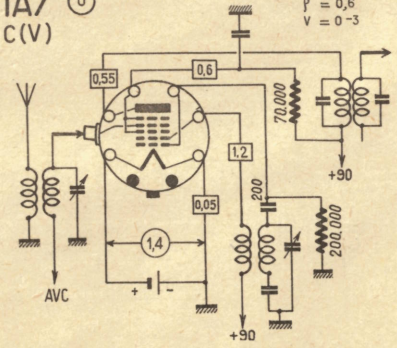
1A6 (US)
C

Sc = 0,25
ρ = 0,5 MΩ
V = -3 -22



1A7 (O)
C(V)

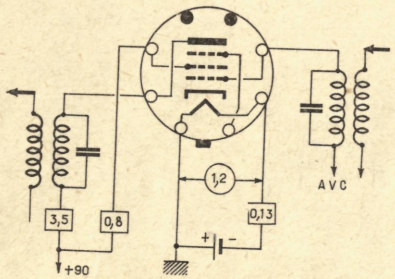
Sc = 0,25
ρ = 0,6
V = 0 -3



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

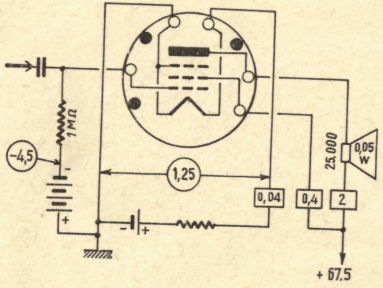
1AB5 ⓪
HF(V)

S = 11
ρ = 275 kΩ
V = −1,5 −12



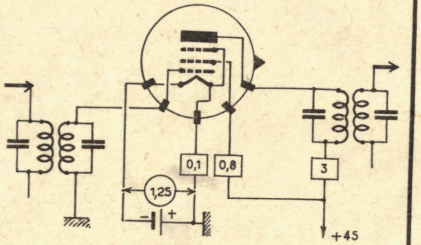
1AC5 (SM)
P

S = 0,75
ρ = 0,15 MΩ
V = −4,5



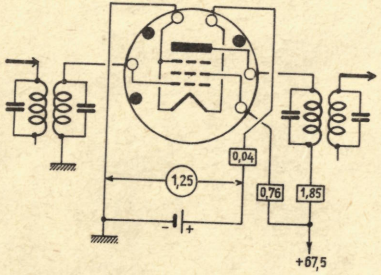
1AD4 (S)
HF

S = 2
ρ = 0,15 MΩ
V = 0



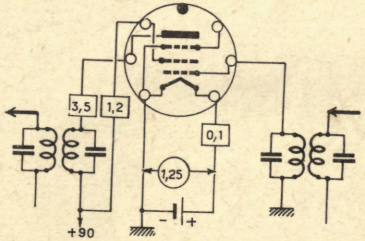
1AD5 / 1W5 (SM)
HF

S = 0,735
ρ = 0,7 MΩ
V = 0



1AE4 (M)
HF

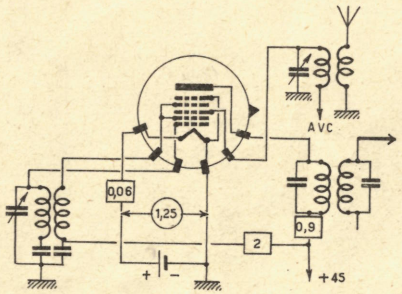
S = 1,55
ρ = 0,5 MΩ
V = 0



1AB6 = DK96
1AC6 = DK92
1AH5 = DAF96
1AJ4 = DF96
1AN5 = DF97

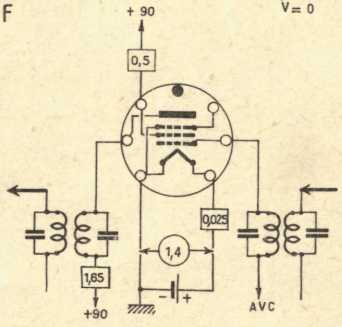
1AE5 (S)
C

S = 0,2
ρ = 0,2 MΩ
V = 0



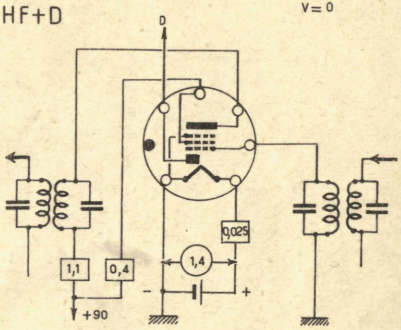
1AF4 (M)
HF

S = 0,95
ρ = 1,8 MΩ
V = 0



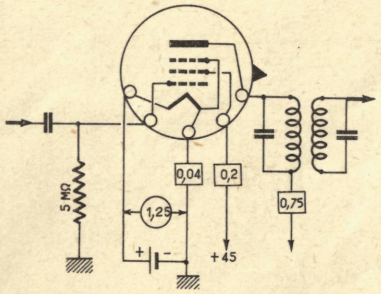
1AF5 (M)
HF+D

S = 0,6
ρ = 2 MΩ
V = 0



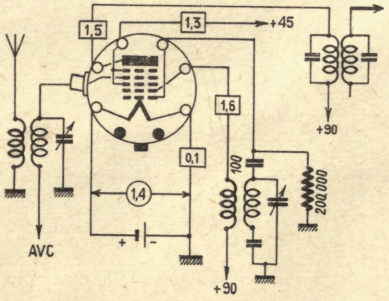
1AH4 (S)
HF

S = 0,75
ρ = 1,5 MΩ
V = 0



1B7 (O)
C(V)

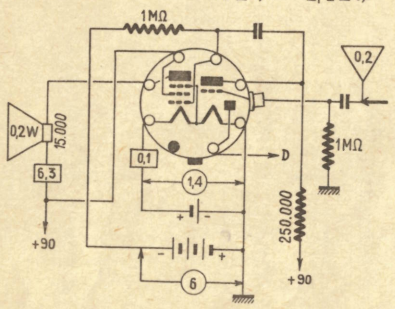
Sc = 0,35
ρ = 0,35 MΩ
V = 0 –15



1AU4 = DF96
1C8 = 1E8
1L4 = DF92
1M3, 1M6 = DM70
1R5 = DK91

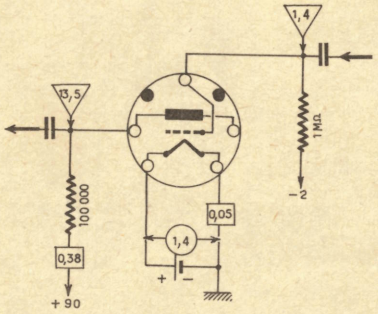
1B8 (O)
D+BF+P

TRIODE: S = 0,3 ρ = 14000 V = 0 I = 0,15
PENTHODE: S = 1,15 ρ = 0,25 MΩ V = −6 I = 6,3



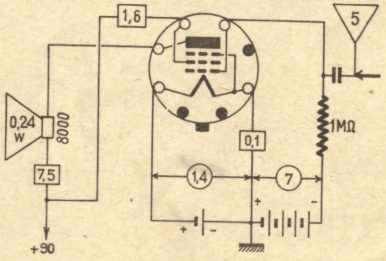
1C3 (M)
BF

S = 0,76
ρ = 19,000
V = −3



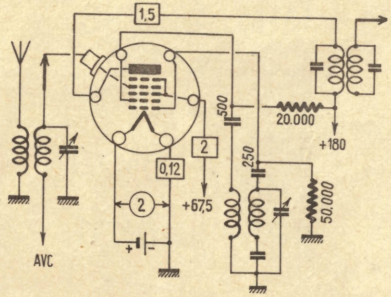
1C5 (O)
P

S = 1,5
ρ = 0,11 MΩ
V = −7,5



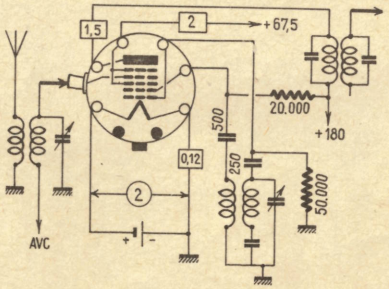
1C6 (US)
C(V)

Sc = 0,325
ρ = 0,7 MΩ
V = −3-14



1C7 (O)
C(V)

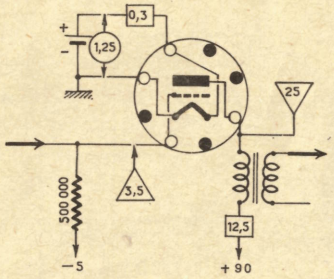
Sc = 0,325
ρ = 0,7 MΩ
V = −3-14



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

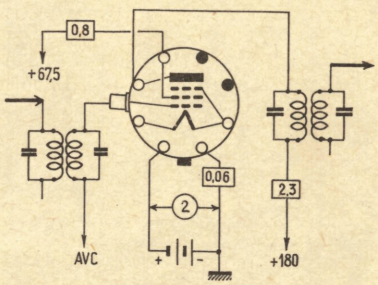
1D3 (SM)
BF

S = 3,4
ρ = 2.560
V = −5



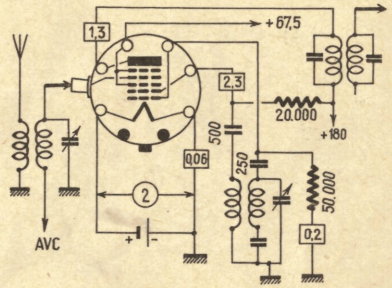
1D5 (O)
HF (V)

S = 0,75
ρ = 1MΩ
V = −3−15



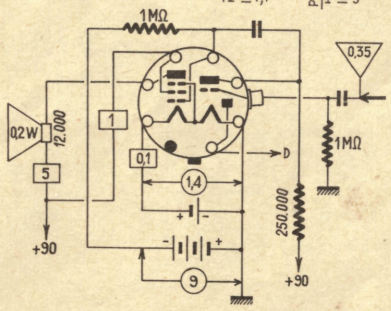
1D7 (O)
C(V)

Sc = 0,3
ρ = 0,5MΩ
V = −3−22,5



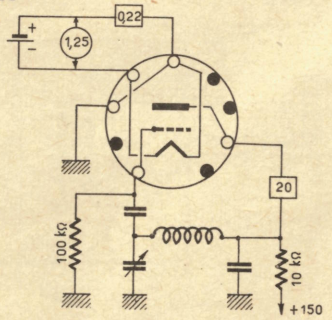
1D8 (O)
D+BF+P

TRIODE: S = 0,57 ρ = 50000 V = 0 I = 1,1
PENTHODE: S = 0,92 ρ = 0,2MΩ V = −9 I = 5



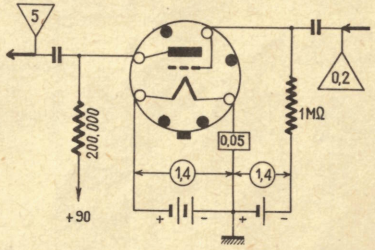
1E3 (M)
HF_O

S = 3,5
V = −3,5



1E4 (O)
BF

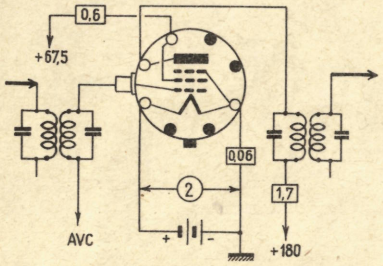
S = 0,8
ρ = 17.000
V = −3
I = 1,5



1C8 = 1E8

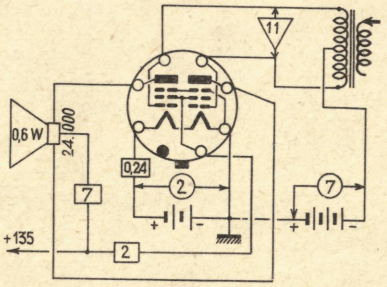
1E5 ⓪
HF(V)

S = 0,65
ρ = 1,5 MΩ
V = −3 − 8



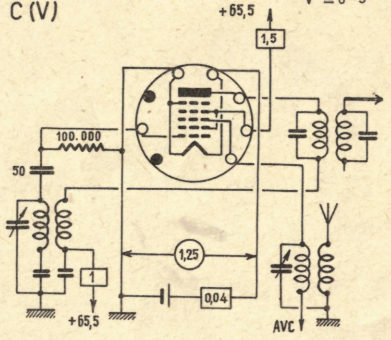
1E7 ⓪
P

S = 1,4
ρ = 0,26 MΩ
V = −7



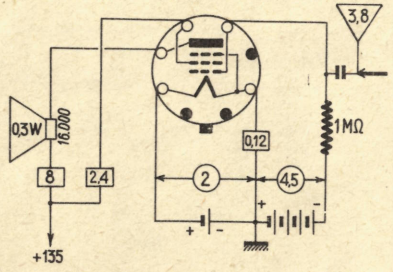
1E8/1C8 (SM)
C(V)

Sc = 0,15
ρ = 0,4 MΩ
V = 0 − 9



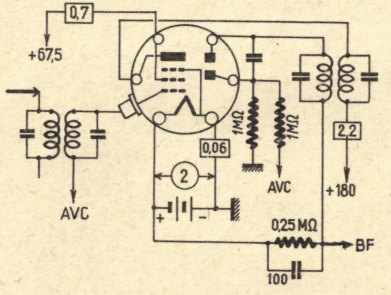
1F5 ⓪
P

S = 1,7
ρ = 0,2 MΩ
V = − 4,5



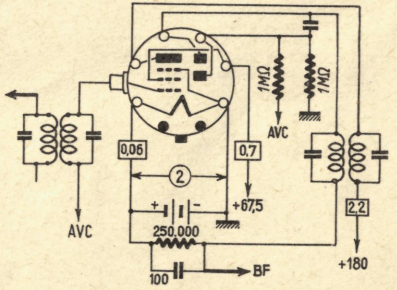
1F6 (US)
HF(V)+D

S = 0,65
ρ = 1 MΩ
V = −1,5 − 12



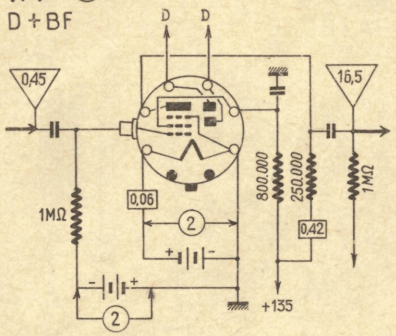
1F7 ⓪
HF(V)+D

S = 0,65
ρ = 1 MΩ
V = −1,5 − 12



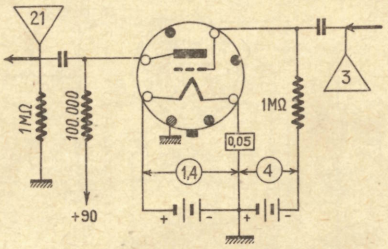
1F7 ⓪
D + BF

V = −2



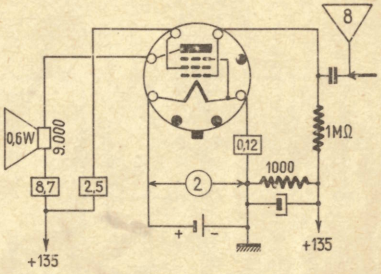
1G4 ⓪
BF

S = 0,825
ρ = 10.700
V = −6
I = 3



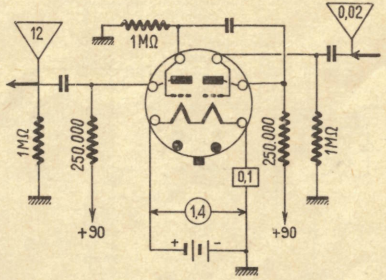
1G5 ⓪
P

S = 1,55
ρ = 0,16 MΩ
V = −13,5



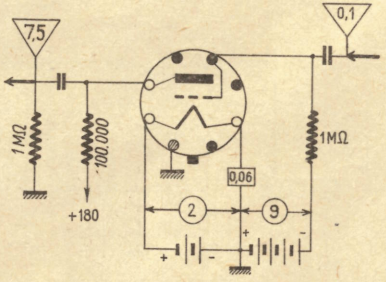
1G6 ⓪
BF

S = 0,67
ρ = 45.000
V = 0
I = 1 mA



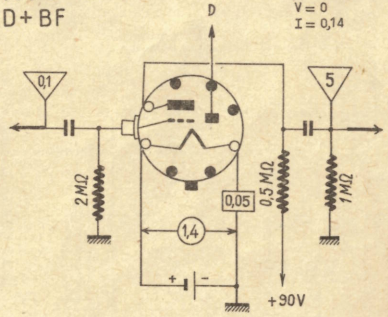
1H4 ⓪
BF

S = 0,9
ρ = 10.300
V = −13,5
I = 3,1



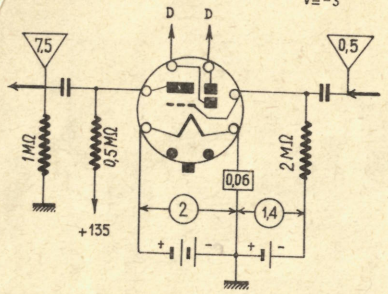
1H5 ⓪
D + BF

S = 0,275
ρ = 0,24 MΩ
V = 0
I = 0,14



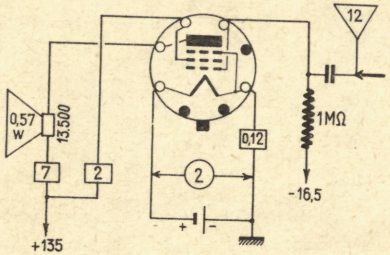
1H6 ⓞ
D + BF

S = 0,575
ρ = 35.000
I = 0,8
V = −3

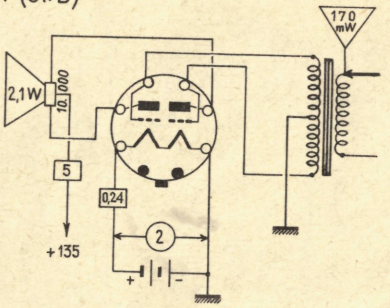


1J5 ⓞ
P

S = 0,95
ρ = 0,1 MΩ
V = −16,5

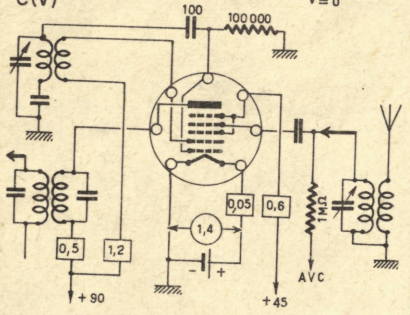


1J6 ⓞ
P (Cl. B)



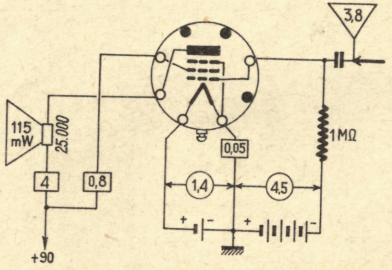
1L6 Ⓜ
C(V)

S = 0,3
ρ = 0,65 MΩ
V = 0



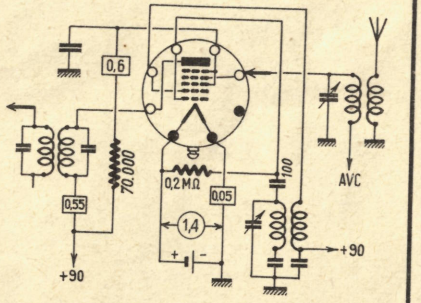
1LA4 Ⓛ
P

S = 0,85
ρ = 0,3 MΩ
V = −4,5



1LA6 Ⓛ
C

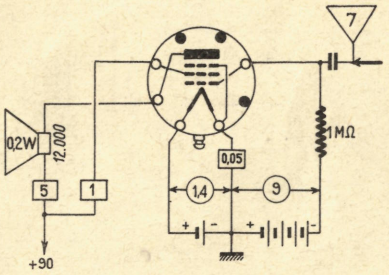
Sc = 0,25
ρ = 0,75 MΩ
V = 0



1L4 = DF92

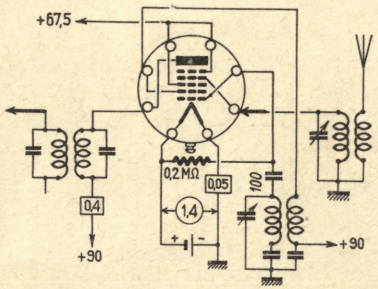
1LB4 Ⓛ
P

S = 0,925
ρ = 0,2 MΩ
V = −9



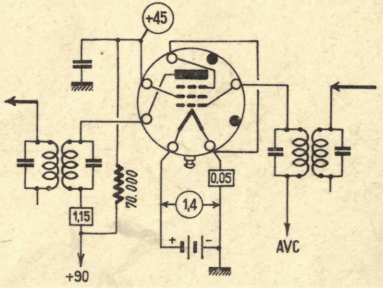
1LB6 Ⓛ
C

Sc = 0,1
ρ = 2 MΩ
V = 0



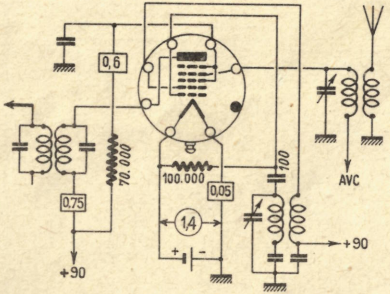
1LC5 Ⓛ
HF(V)

S = 0,77
ρ = 1,5MΩ
V = 0-5



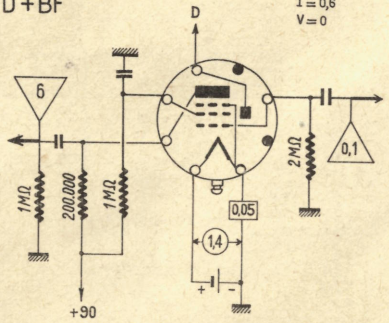
1LC6 Ⓛ
C(V)

Sc = 0,25
ρ = 0,3
V = 0



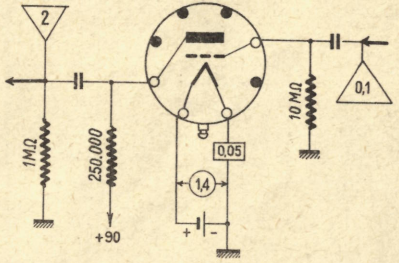
1LD5 Ⓛ
D+BF

S = 0,6
ρ = 0,95 MΩ
I = 0,6
V = 0



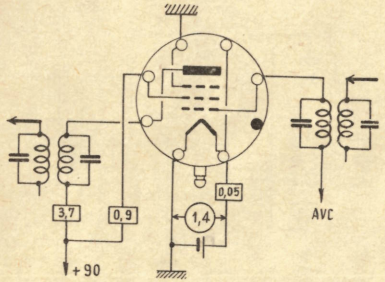
1LE3 Ⓛ
BF

S = 1,3
ρ = 11200
V = −3
I = 4,5



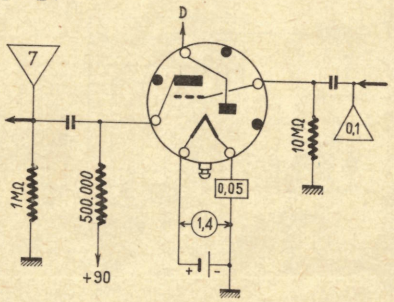
1LG5 (L)
HF (V)

S = 1,15
ρ = 0,5 MΩ
V = −1,5−19



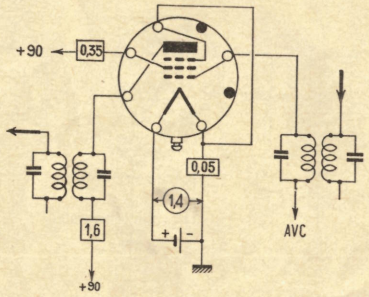
1LH4 (L)
D+BF

S = 0,27
ρ = 0,24 MΩ
V = 0



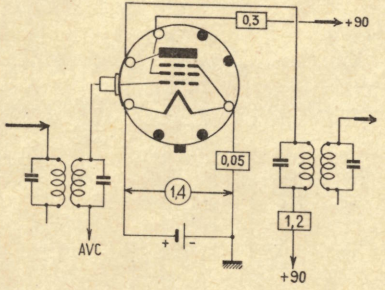
1LN5 (L)
HF (V)

S = 0,8
ρ = 1,1 MΩ
V = 0−4,5



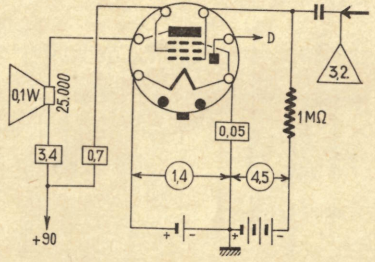
1N5 (O)
HF(V)

S = 0,75
ρ = 1,5 MΩ
V = 0−4



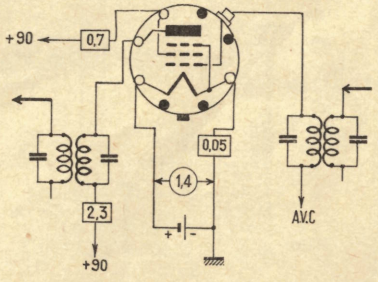
1N6 (O)
D+P

S = 0,8
ρ = 0,3 MΩ
V = −4,5



1P5 (O)
HF(V)

S = 0,75
ρ = 0,8 MΩ
V = 0−12

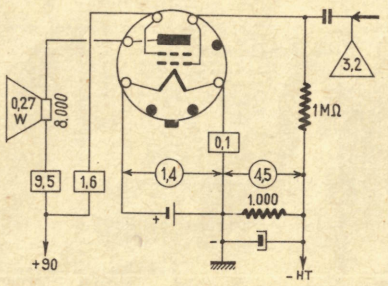


1M3/1N3=DM70/DM71

1Q5 (O)

P

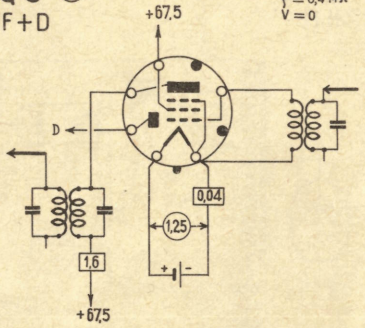
S = 0,21
V = −4,5



1Q6 (SM)

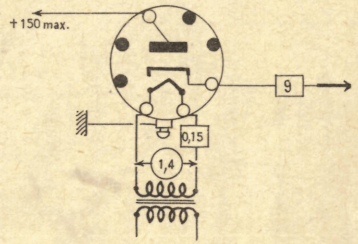
HF+D

S = 0,6
ρ = 0,4 MΩ
V = 0



1R4 (L)

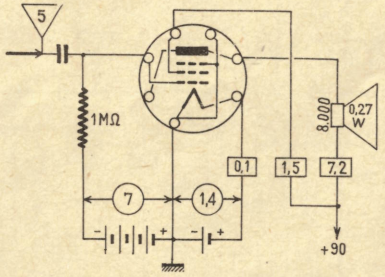
D (T) (VHF)



1S4 (M)

P

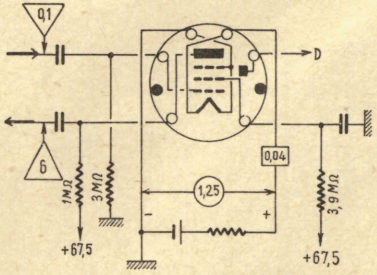
S = 1,55
ρ = 0,1MΩ
V = −7



1S6 (SM)

D+BF

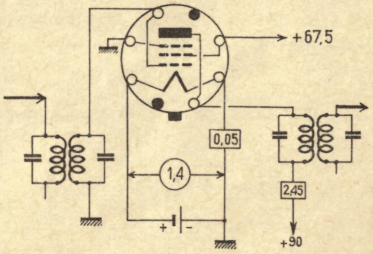
S = 0,6
ρ = 0,4 MΩ
V = 0



1SA6 (O)

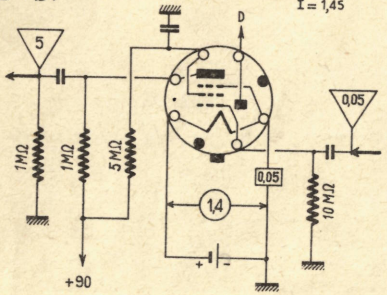
HF

S = 0,97
ρ = 0,8MΩ
V = 0

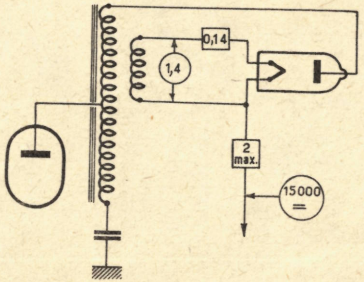


1SB6 (O)
D+BF

S = 0,65
ρ = 0,7 MΩ
V = 0
I = 1,45

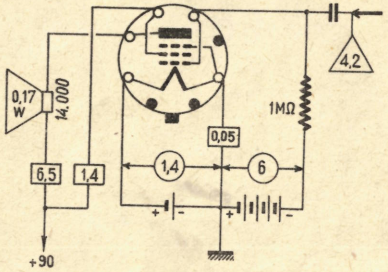


1T2 (S)
R(THT)



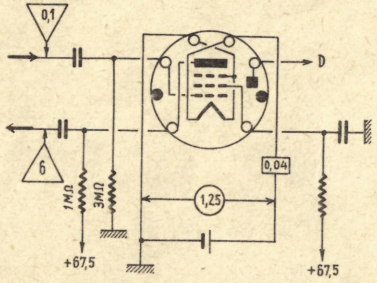
1T5 (O)
P

S = 1,15
V = −6



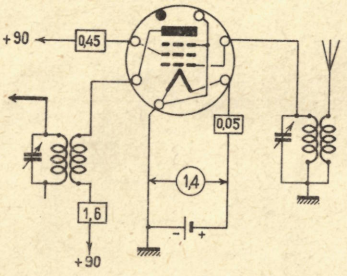
1T6 (SM)
D+BF

S = 0,6
ρ = 0,4 MΩ
V = 0

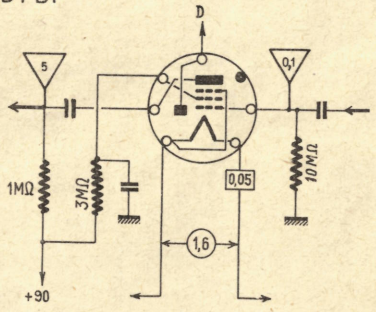


1U4 (M)
HF

S = 0,9
ρ = 1,5 MΩ
V = 0



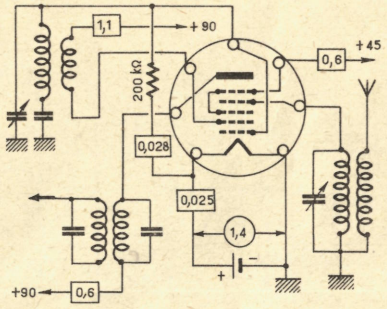
1U5 (M)
D+BF



1U6 (M)

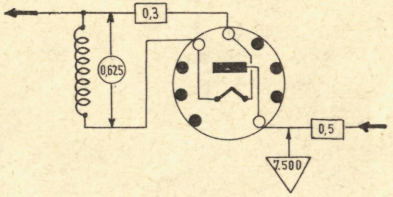
C

S = 0,3
ρ = 500 kΩ
V = 0



1V2 (N)

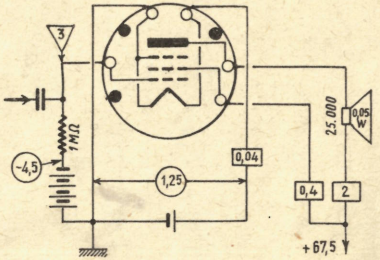
R(T)(THT)



1V5 (SM)

P

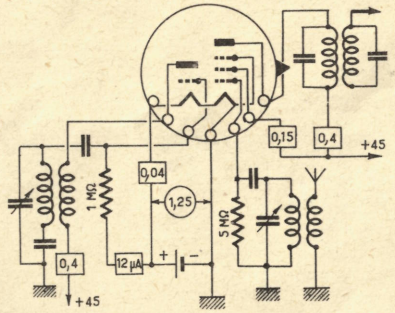
S = 0,75
ρ = 0,15 MΩ
V = −4,5



1V6 (S)

C

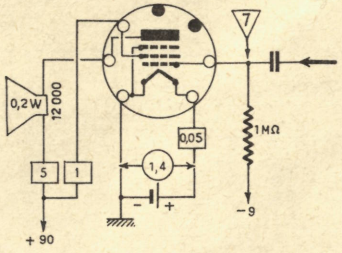
Sc = 0,2
ρ = 1 MΩ
V = 0



1W4 (M)

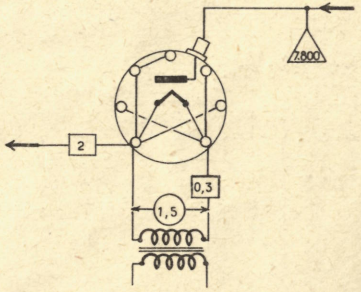
P

S = 0,925
ρ = 0,25 MΩ
V = −9



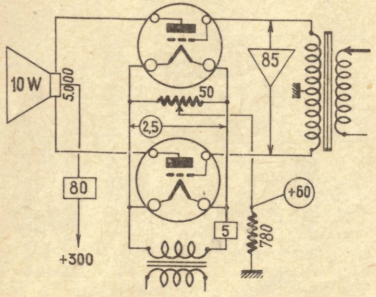
1Z2 (M)

R(T) (THT)



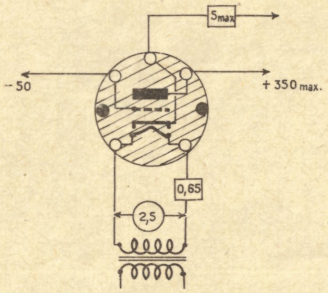
2A3 (US)
P(Cl.A)

S = 5,25
ρ = 800
Sv = −45



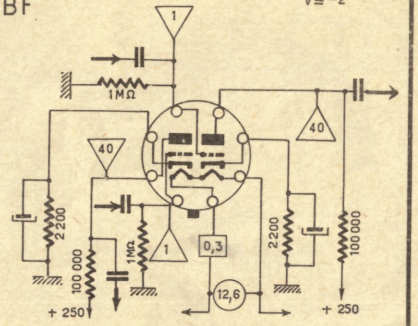
2C4 (M)
THYR.

V = 50

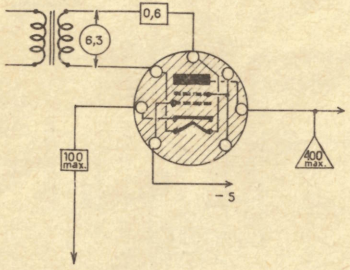


2C52 (O)
BF

S = 1,9
ρ = 52 700
V = −2

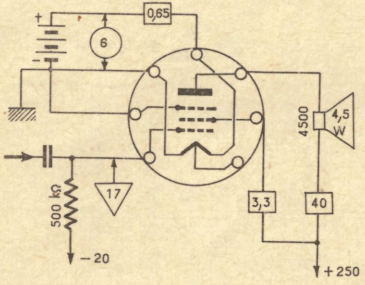


2D21 (M)
THYR.



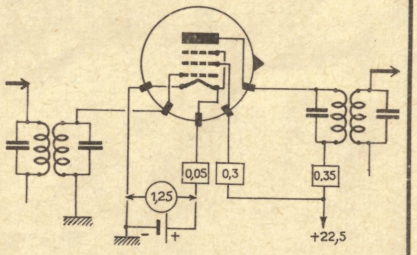
2E30 (M)
P

S = 3,7
ρ = 63 kΩ
V = −20



2E31 (SM)
HF

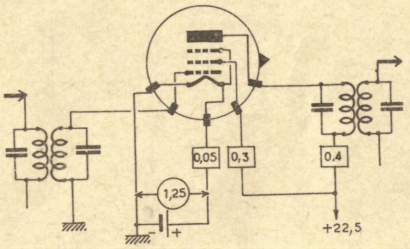
S = 0,5
ρ = 350 000
V = 0



2B35 = EA50

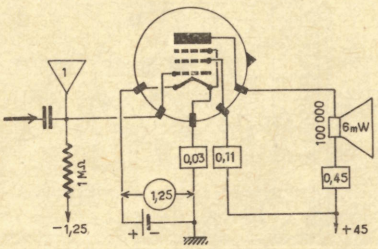
2E32 (SM)
HF (V)

S = 0,45
ρ = 350.000
V = 0 −3



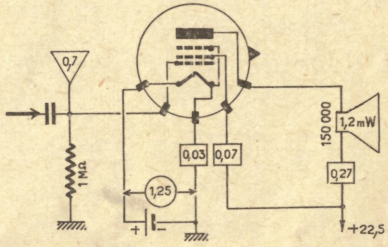
2E35 (SM)
P

S = 0,5
ρ = 0,25 MΩ
V = −1,25



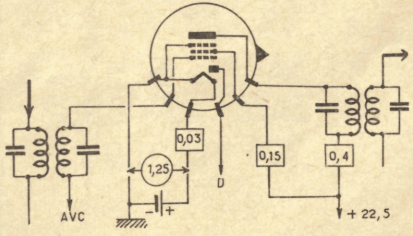
2E36 (SM)
P

S = 0,385
ρ = 0,22 MΩ
V = 0



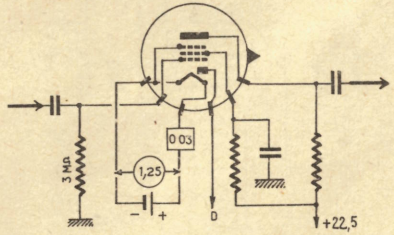
2E41 (SM)
HF-D

S = 0,4
ρ = 0,25 MΩ
V = 0 −3



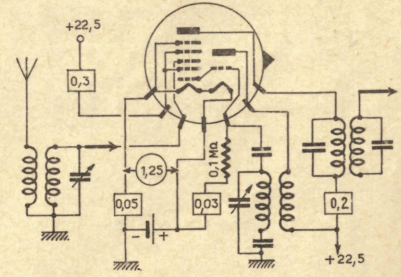
2E42 (SM)
D-BF

S = 0,4
ρ = 0,25 MΩ
V = 0



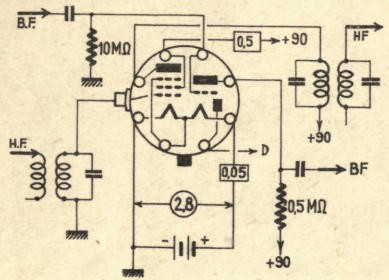
2G21 (2G22) (SM)
C

S = 0,06
ρ = 0,5 MΩ
V = 0

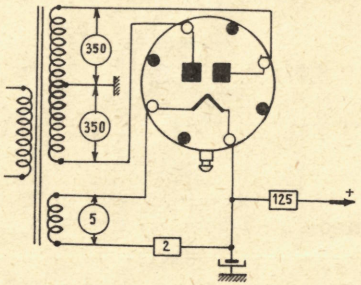


3A8 (O)
D-HF-BF

PENTHODE: S = 0,75 ρ = 0,8 MΩ V = 0
TRIODE: S = 0,325 ρ = 0,2 MΩ V = 0

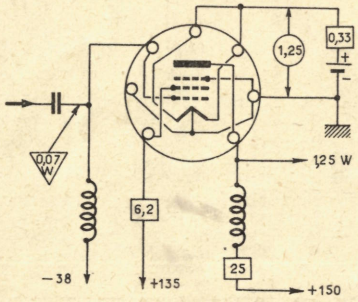


3AZ4 (L)
R



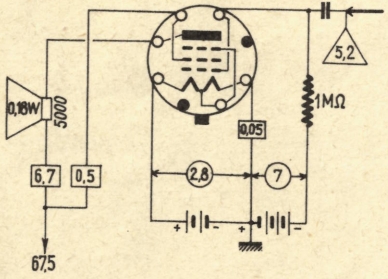
3B4 (M)
P (Cl. C)

V = −38



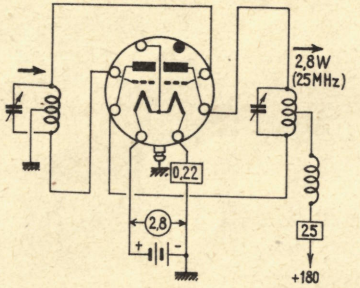
3B5 (O)
P

S = 1,5
ρ = 100000



3B7 (L)
HF (VHF)

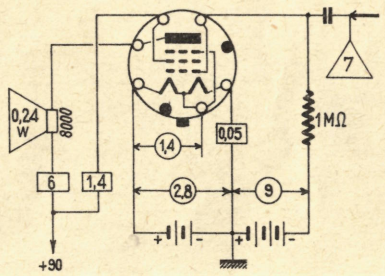
S = 1,9
ρ = 11300
I = 5,2



3A4 = DL93
3A5 = DCC90
3C4 = DL96

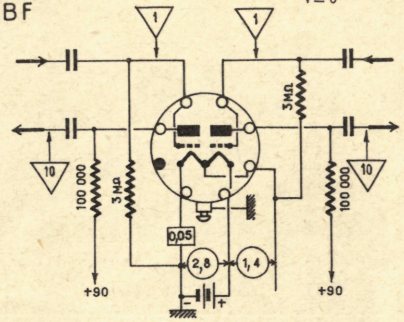
3C5 (0)
P

S = 1,55
V = −9



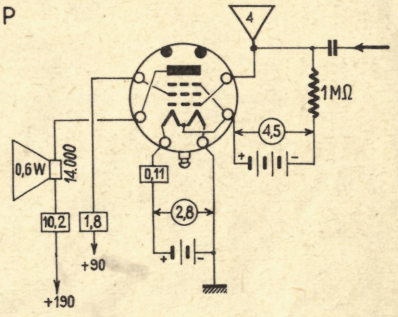
3C6 (L)
BF

S = 1,3
ρ = 11.200
V = 0



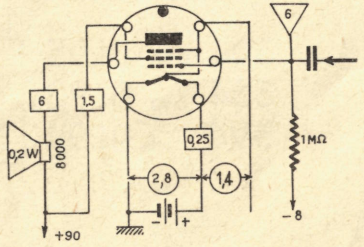
3D6 (L)
P

S = 2,4
V = −4,5



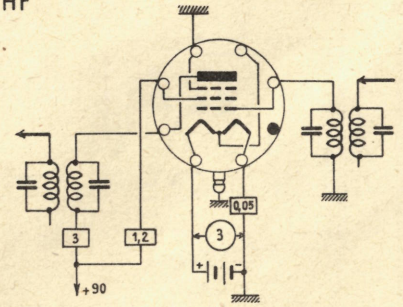
3E5 (M)
P

S = 1,2
ρ = 0,12 MΩ
V = −8



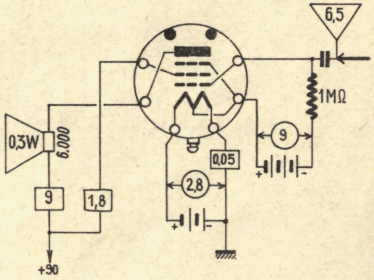
3E6 (L)
HF

S = 1,7
ρ = 0,32 MΩ
V = 0



3LE4 (L)
P

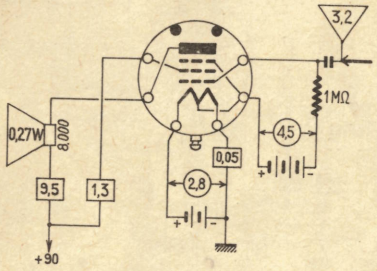
S = 1,6
ρ = 0,1 MΩ
V = −9



3LF4 (L)

P

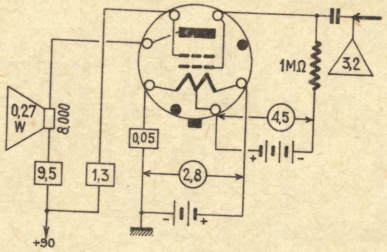
S = 2,2
P = 75,000
V = −4,5



3Q5 (O)

P

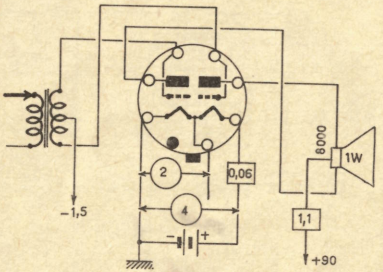
S = 2,2
P = 80,000
V = −4,5



4A6 (O)

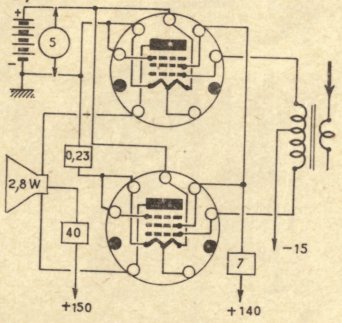
P (Cl B)

S = 0,75
P = −26,000
V = −1,5



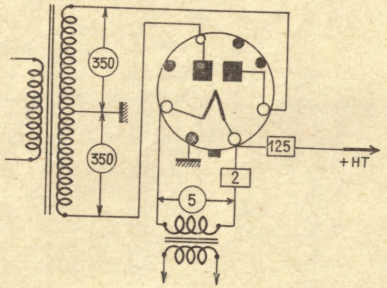
5A6 (N)

P(Cl. B)



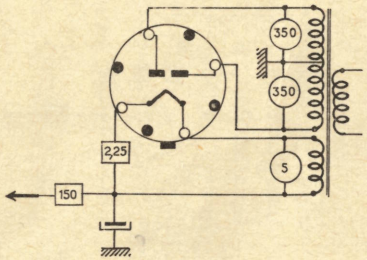
5AZ4 (O)

R

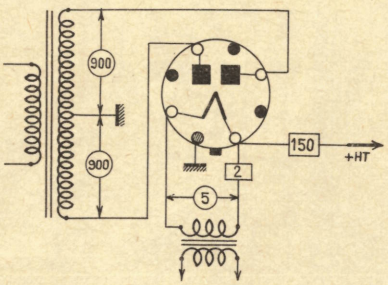


3Q4 = DL95
3S4 = DL92
3V4 = DL94

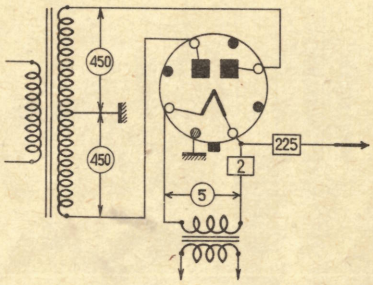
5AX4 ⓪
R



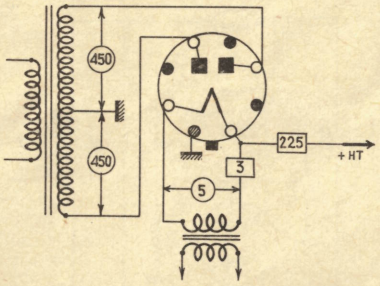
5R4 ⓪
R



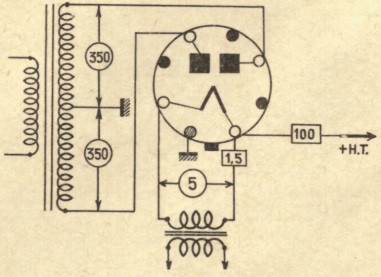
5T4 ⓪
R



5U4 ⓪
R



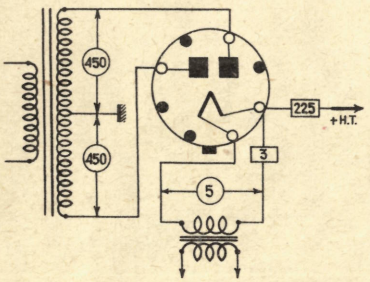
5W4 ⓪
R



5AR4 = GZ34
5P29 = EL38
5V4 = GZ32

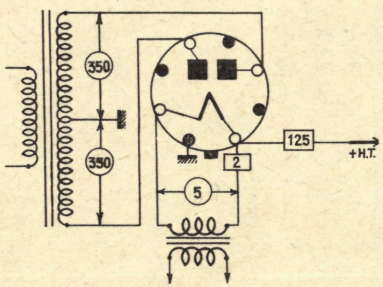
5X4 (O)

R



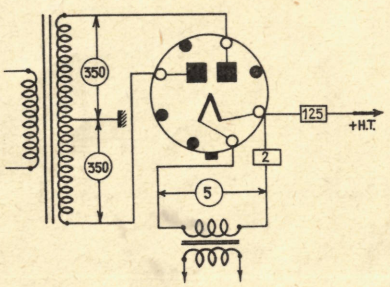
5Y3 (O)

R



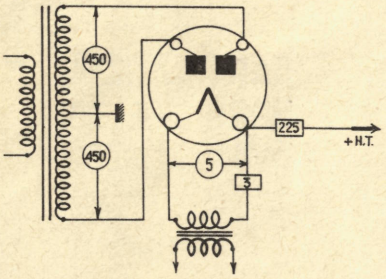
5Y4 (O)

R



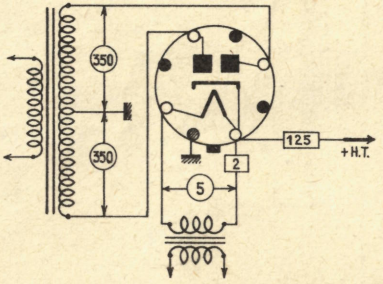
5Z3 (US)

R



5Z4 (O)

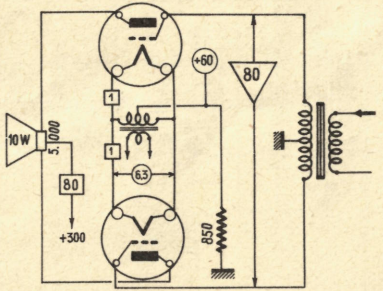
R



6A3 (US)

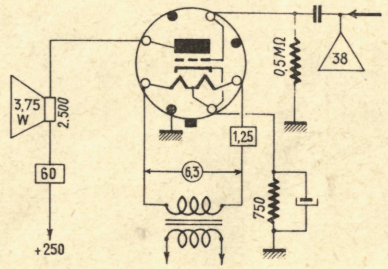
P(Cl. A)

V = −60



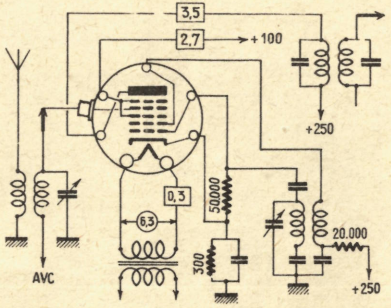
6A5 (6A3) ⓞ
P

S = 5,25
ρ = 800
V = −45



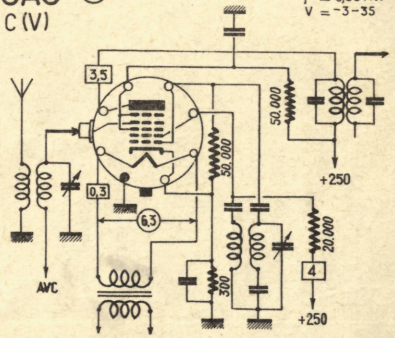
6A7 (6A8) Ⓤⓢ
C (V)

Sc = 0,55
ρ = 0,36 MΩ
V = −3−35



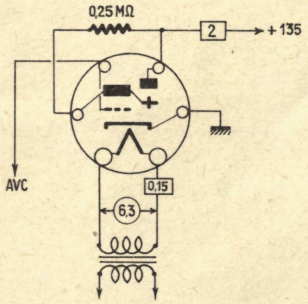
6A8 ⓞ
C (V)

Sc = 0,55
ρ = 0,36 MΩ
V = −3−35



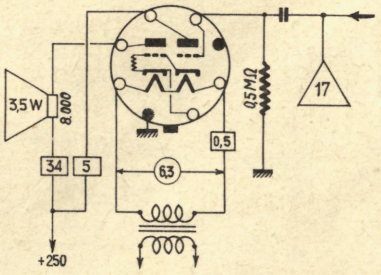
6AB5 Ⓤⓢ
I

V = 0 −10



6AB6 ⓞ
P

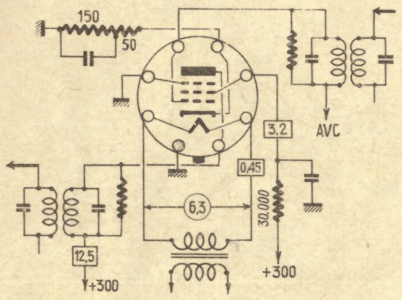
S = 1,8
ρ = 40,000
V = 0



6AB4 = EC92
6AB8 = ECL80
6AC7 = EL34
6AJ8 = ECH81
6AK5 = EF95
6AK8 = EABC80

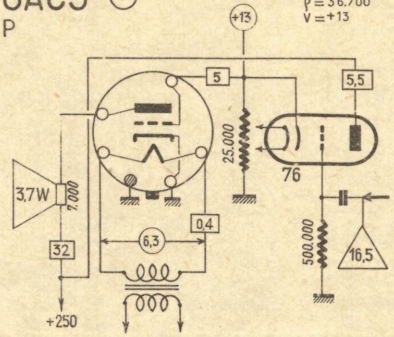
6AB7 ⓞ
HF (V) (T)

S = 5
ρ = 0,7
V = −3 − 22,5



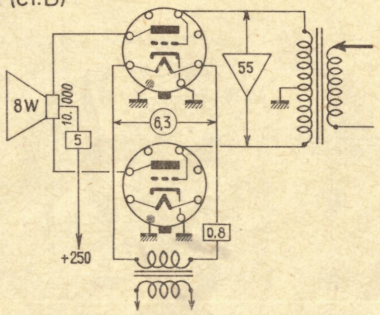
6AC5 ⓞ
P

S = 3,4
ρ = 36.700
V = +13



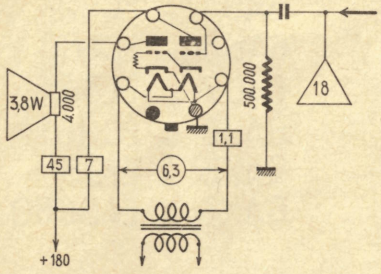
6AC5 ⓞ
P(Cl.B)

V = 0



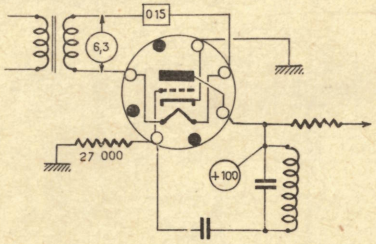
6AC6 ⓞ
P

S = 2
ρ = 20.000
V = 0



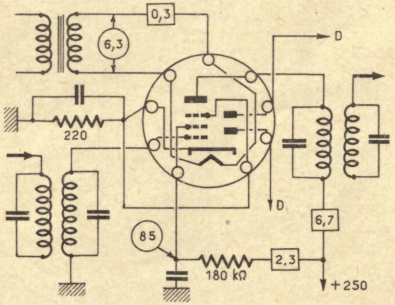
6AD4 ⓢⓜ
O (T) (FM)

S = 2
ρ = 35.000
V = −1



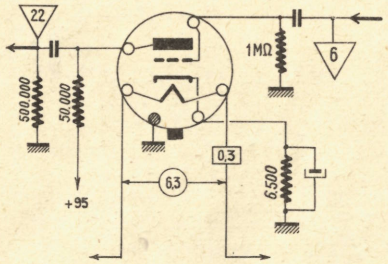
6AD8 ⓝ
HF + D

S = 1,1
ρ = 1 MΩ
V = −2



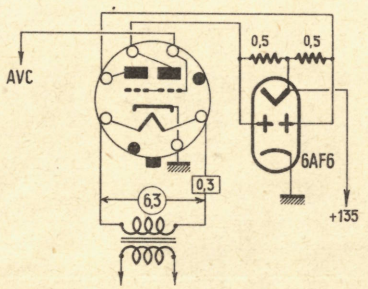
6AE5 ⓞ
BF

S = 1,2
ρ = 3.500
V = −15
I = 7



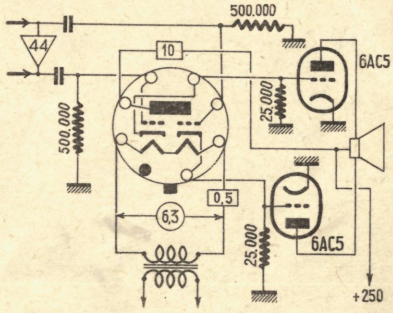
6AE6 ⓞ
I

S = 1
ρ = 35.000
V = −1,5 −35



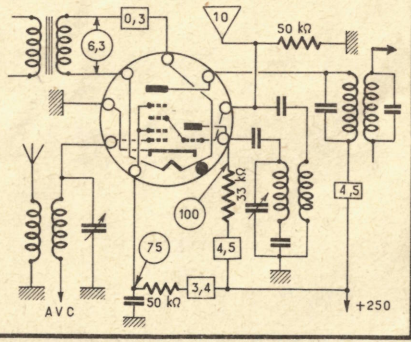
6AE7 ⓞ
BF (Cl.B)

S = 3
ρ = 4.650
V = −13,5



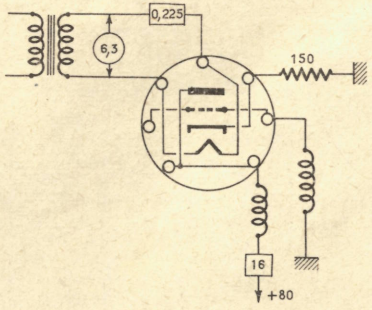
6AE8 Ⓝ
C

Sc = 0,78
ρ = 700 kΩ
V = 0



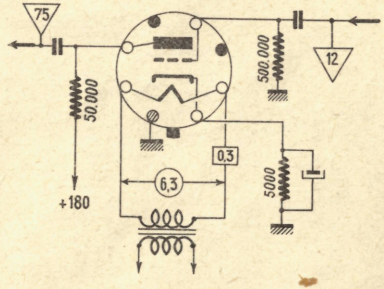
6AF4 Ⓜ
O(VHF)

S = 6,6
ρ = 2.270
μ = 15



6AF5 ⓞ
BF

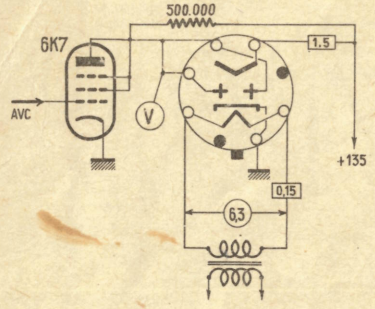
S = 1,5
ρ = 4.900
V = −18
I = 7



6AF6 ⓒ

V = 0 + 80

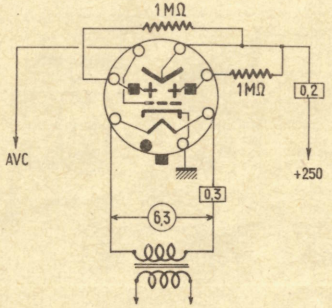
I (V)



6AF7 ⓞ

V = 0 - 19

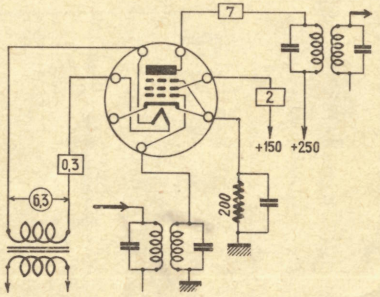
I (V)



6AG5 Ⓜ

S = 5
ρ = 0,8
V = -1,8

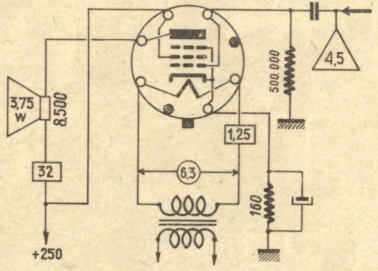
HF (T)



6AG6 ⓞ

S = 10
ρ = 50.000
V = -6

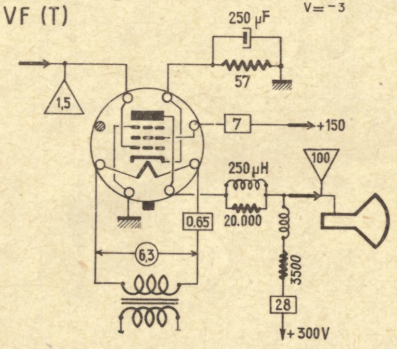
P



6AG7 ⓞ

S = 11
ρ = 130.000
V = -3

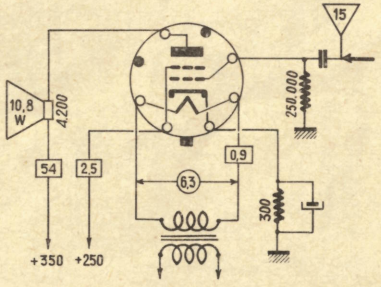
VF (T)



6AH5 ⓞ

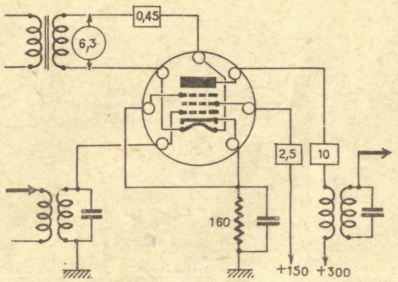
S = 5,2
ρ = 33.000
V = -18

P



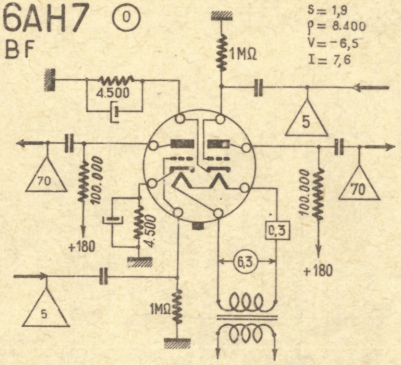
6AH6 (M)
HF (T)

S = 9
ρ = 0,5 MΩ
V = −2



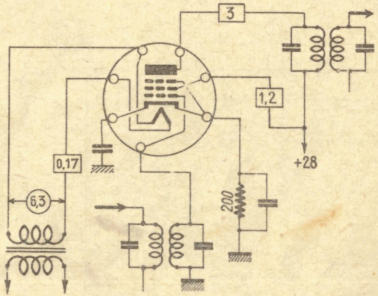
6AH7 (O)
BF

S = 1,9
ρ = 8.400
V = −6,5
I = 7,6



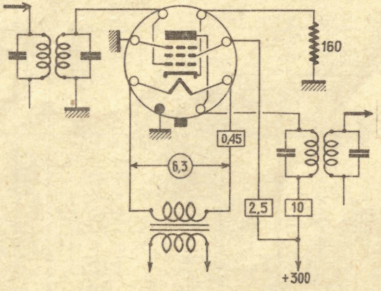
6AJ5 (M)
HF

S = 2,75
ρ = 90.000



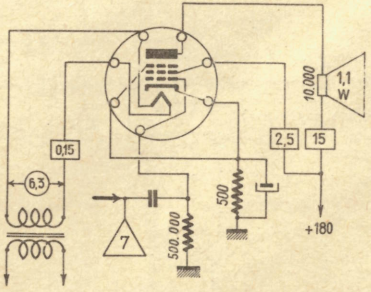
6AJ7 (O)
HF (T)

S = 9
ρ = 1 MΩ



6AK6 (M)
P

S = 2,3
ρ = 0,2 MΩ
V = −9

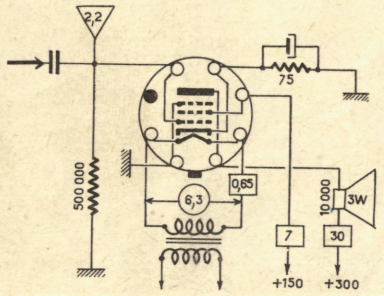


6AL5 = EAA91
6AM5 = EL91
6AM6 = EF91
6AQ8 = ECC85
6AT6 = EBC90

6AK7 ⓪

P

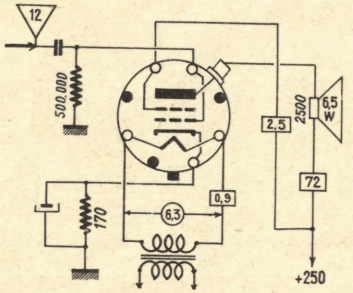
S = 11
ρ = 130.000
V = −3



6AL6 (6L6) ⓪

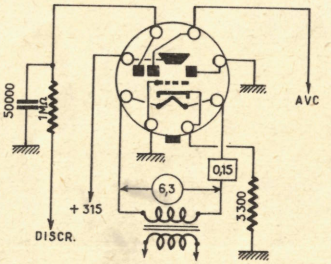
P

S = 6
ρ = 22.500
V = −14



6AL7 ⓪

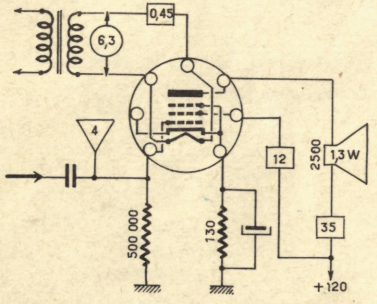
I (FM)



6AN5 Ⓜ

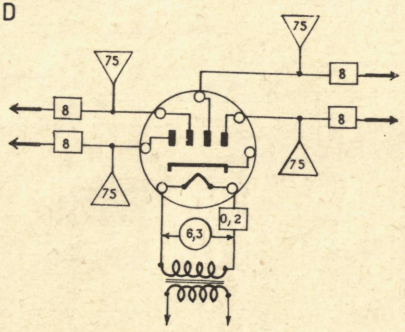
P

S = 8
ρ = 12.500
V = −6



6AN6 Ⓜ

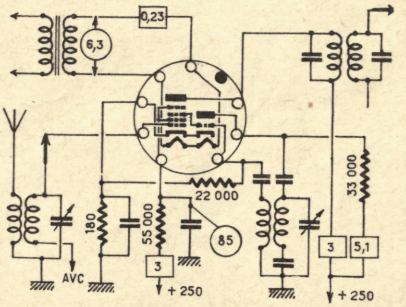
D



6AN7 Ⓝ

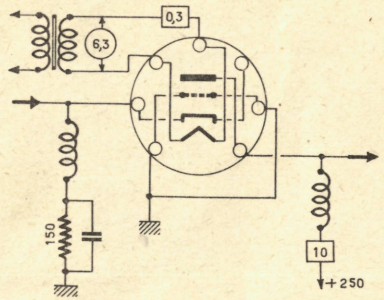
C

S = 0,75
ρ = 0,1MΩ
V = −2 −25



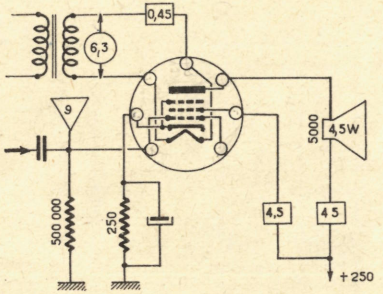
6AQ4 (M)
HF (250 MHz)

S = 8,5
ρ = 12.000
V = - 1,5



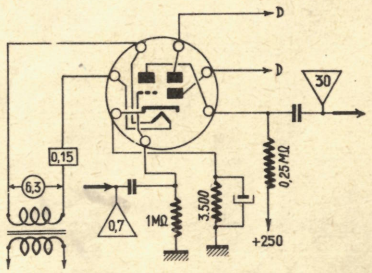
6AQ5 / EL90 (M)
P

S = 4,1
ρ = 52.000
V = -12,5



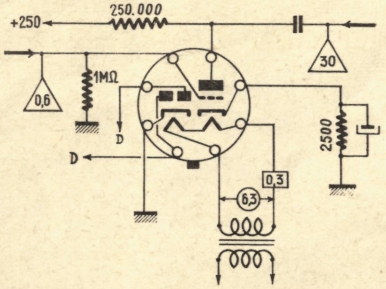
6AQ6 (M)
D + BF

S = 1,2
ρ = 58.000
V = -3
I = 1



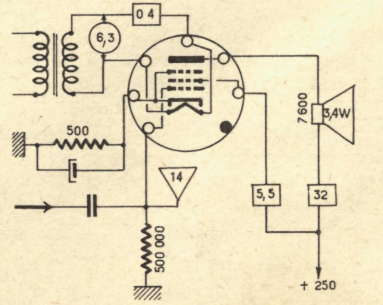
6AQ7 (O)
D + BF

S = 1,6
ρ = 44,000
V = - 2
I = 2,3



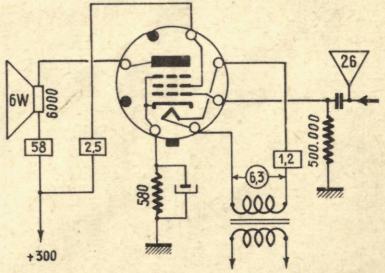
6AR5 (M)
P

S = 2,3
ρ = 68.000
V = -18



6AR6 (O)
P

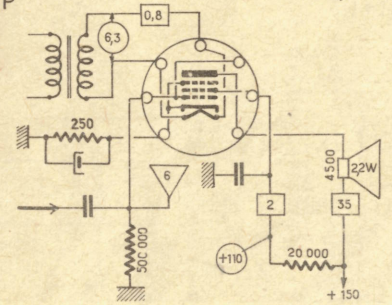
S = 1,2
ρ = 22,000
V = -36



6AS5 (M)

P

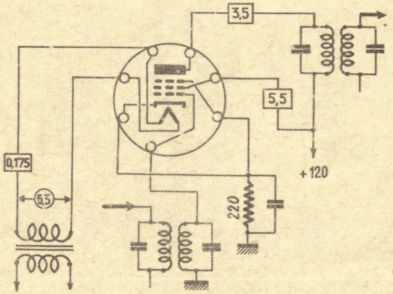
S = 5,6
ρ = 25.000
V = −8,5



6AS6 (M)

HF (T)

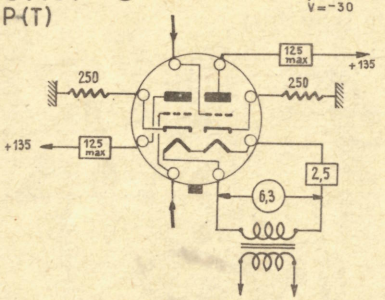
S = 3,5
V = −2



6AS7 (O)

P (T)

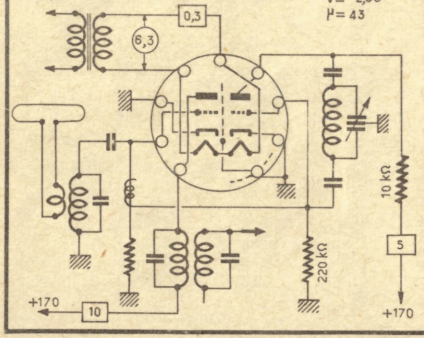
S = 7
ρ = 280
V = −30



6AT7N (N)

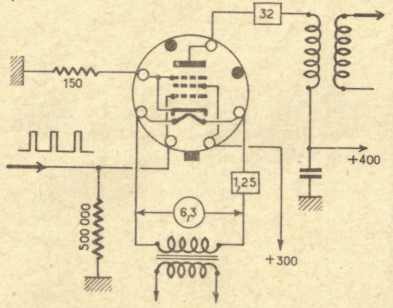
C (T)

S = 4,9
Sc = 1,9
S = 11 kΩ
V = −2,35
μ = 43



6AU5 (O)

P (T)

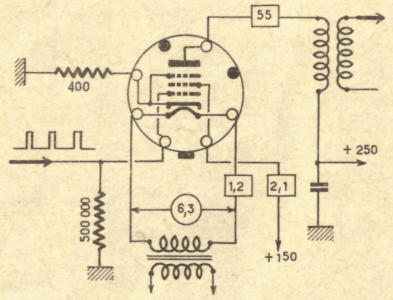


6AU6 = EF94
6AV4 = EZ91
6AV6 = EBC91

6AV5 ⓪

P (T)

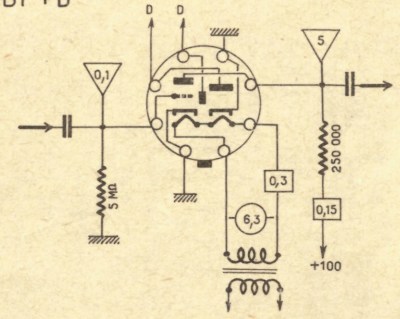
S = 5,8
V = −22,5



6AW7 ⓪

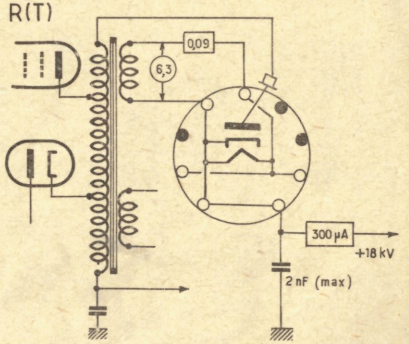
BF + D

S = 1,2
ρ = 70.000
V = 0



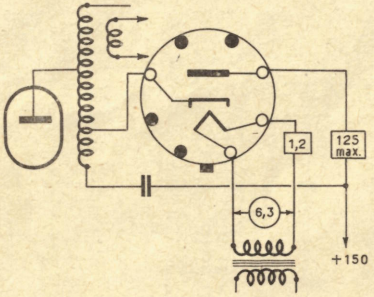
6AX2N Ⓝ

R (T)



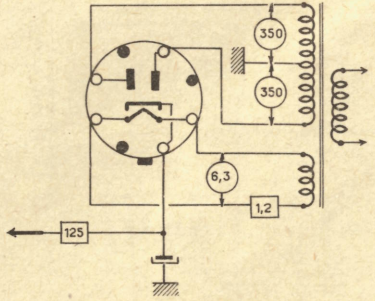
6AX4 ⓪

D (T)



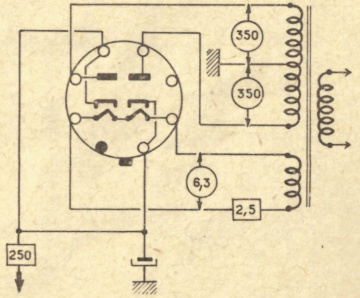
6AX5 ⓪

R



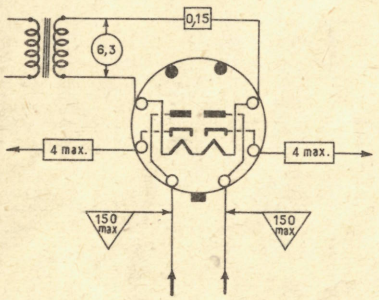
6AX6 ⓪

R



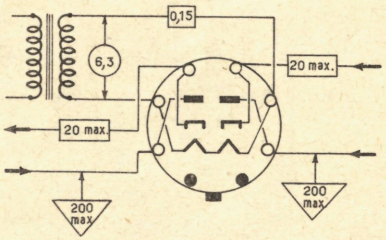
6AZ5 (SM)

D



6AZ6 (SM)

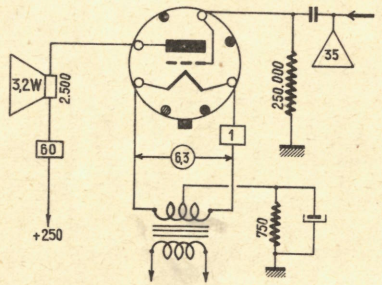
D



6B4 (6A3) (O)

P

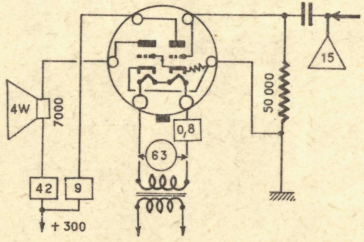
S = 5,25
ρ = 800
V = −45



6B5 (US)

P

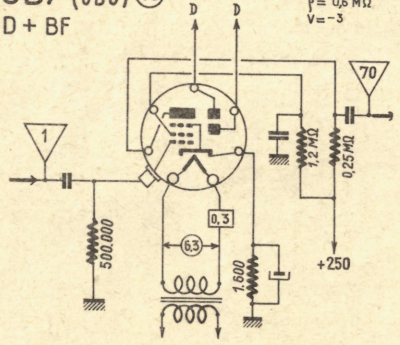
S = 2,4
ρ = 24.000
V = 0



6B7 (6B8) (US)

D + BF

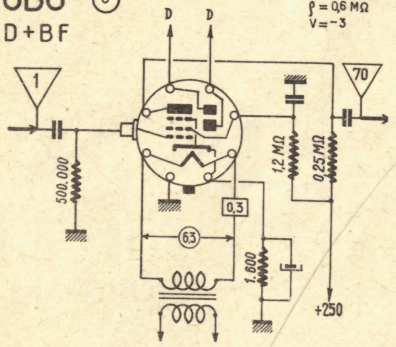
S = 1,3
ρ = 0,8 MΩ
V = −3



6B8 (O)

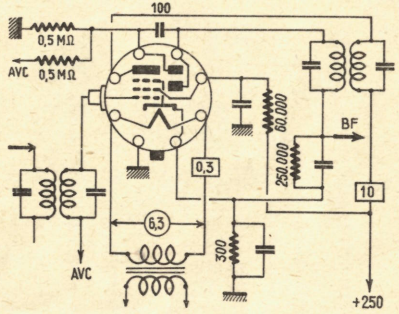
D + BF

S = 1,3
ρ = 0,6 MΩ
V = −3



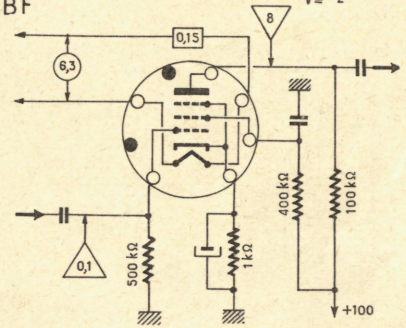
6B8 (O)
HF (V) +D

S = 1,3
ρ = 0,6 MΩ
V = −3 −21



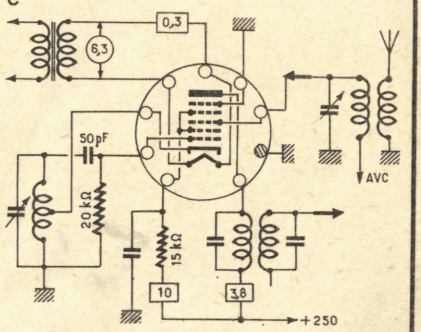
6BA5 (SM)
BF

S = 2,15
ρ = 175.000
V = −2



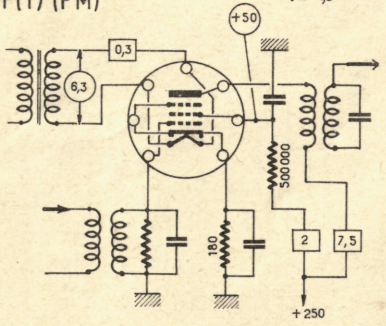
6BA7 (N)
C

Sc = 0,95
ρ = 1 MΩ
V = 0 −20

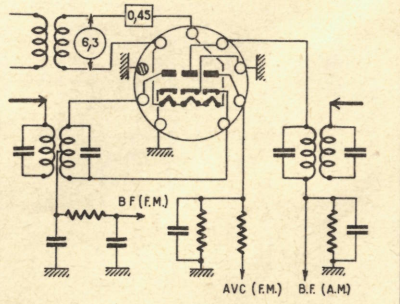


6BC5 (M)
HF(T) (FM)

S = 5,7
ρ = 0,8 MΩ
V = −1,5



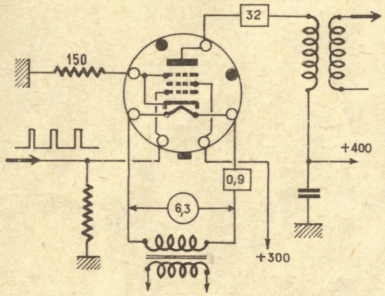
6BC7 (N)
D (FM/AM)



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

6BD5 ⓪

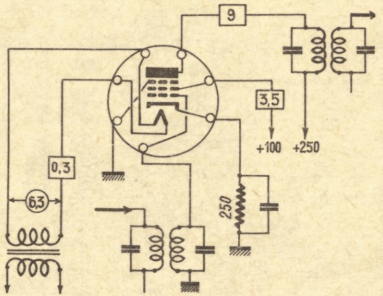
P (T)



6BD6 Ⓜ

HF

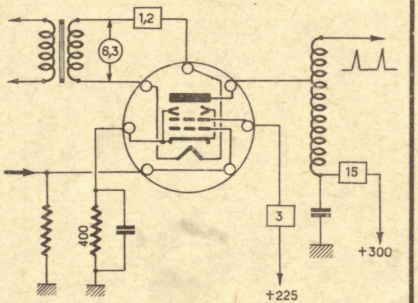
S = 2
P = 0,7 MΩ
V = -3



6BF5 Ⓜ

P (T)

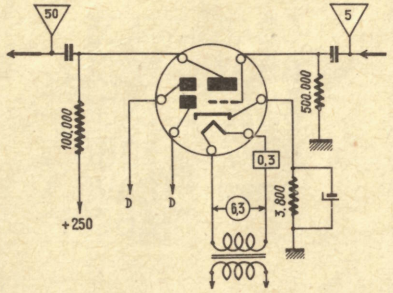
S = 4,2
P = 0,1 MΩ
V = -6



6BF6 Ⓜ

D + BF

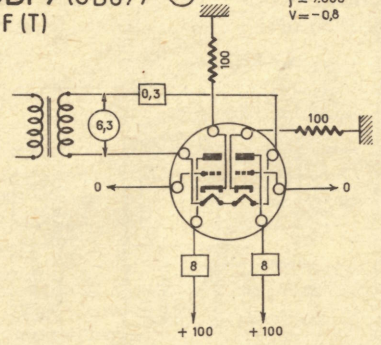
S = 1,9
P = 8.500
V = -9



6BF7 (6BG7) Ⓢⓜ

HF (T)

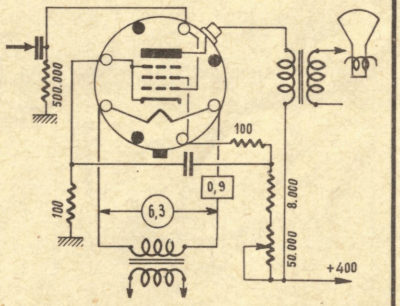
S = 4,8
P = 7.000
V = -0,8



6BG6 ⓪

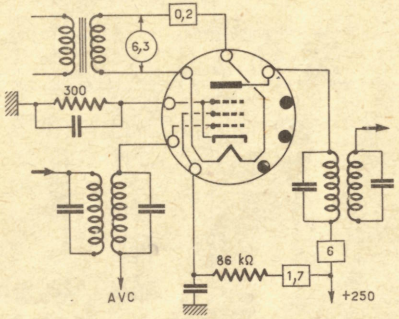
P (T)

S = 6



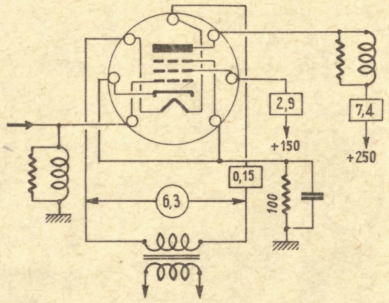
6BH5 (N)
HF (V)

S = 2,2
ρ = 1,1 MΩ
V = −2,5 −30



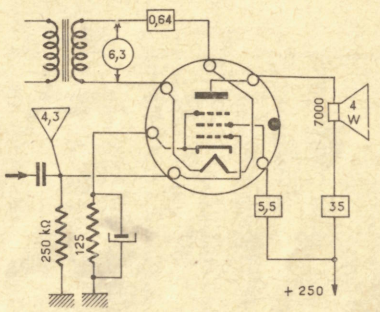
6BH6 (M)
HF (T)

S = 4,6
ρ = 1,4 MΩ
V = −1



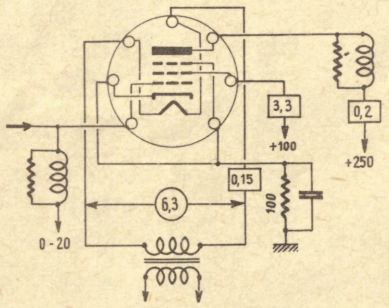
6BJ5 (M)
P (T)

S = 10,5
ρ = 40 kΩ
V = −5



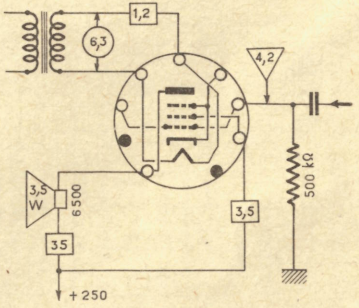
6BJ6 (M)
HF (T)

S = 3,8
ρ = 1,3 MΩ
V = −1 −20



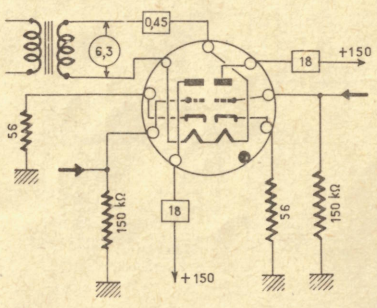
6BK5 (N)
P

S = 8,5
ρ = 100 kΩ
V = −5



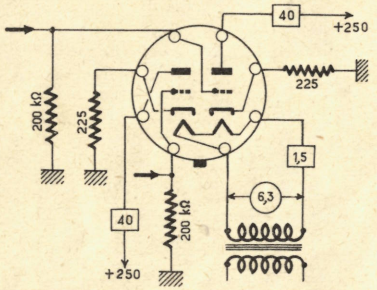
6BK7 (N)
HF (T)

S = 8,5
ρ = 4,7 kΩ
μ = 40

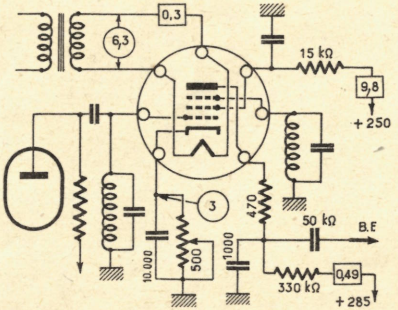


6BL7 ⓪
BF_VF (T)

S = 7
ρ = 2,15 kΩ
V = −9
μ = 15

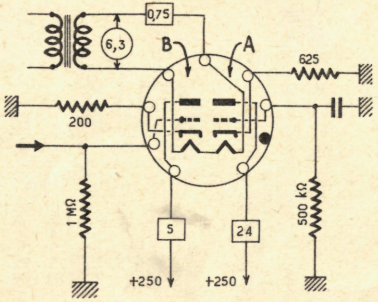


6BN6 Ⓜ
D (FM)



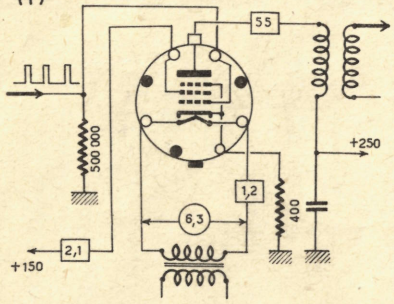
6BN7 Ⓝ
BF_VF (T)

A { S = 5,5 ; ρ = 2,2 kΩ ; V = −15 ; μ = 12 }
B { S = 2 ; ρ = 14 kΩ ; V = −1 ; μ = 28 }



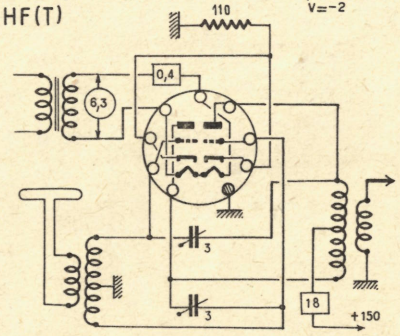
6BQ6 ⓪
P (T)

S = 5,5
V = −22,5



6BQ7 Ⓝ
HF (T)

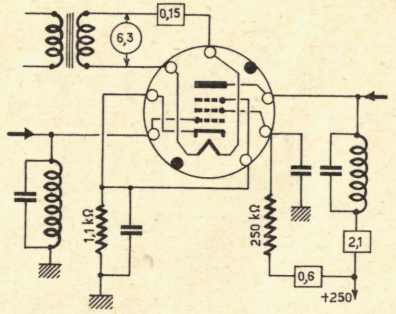
S = 6
ρ = 5.800
V = −2



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

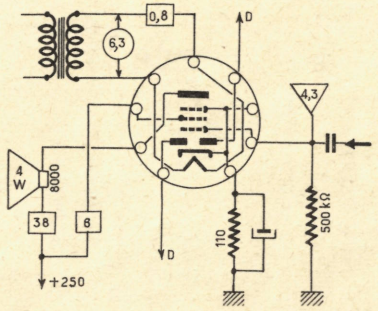
6BR7 (N)
HF

S = 1,25
ρ = 2,5 MΩ
V = −3



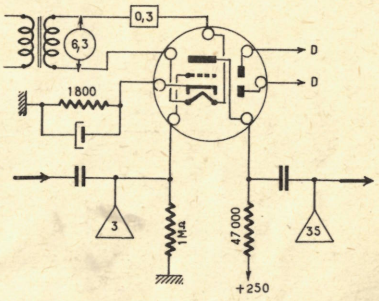
6BV7 (N)
P+D (T)

S = 10
ρ = 100 kΩ
V = −5



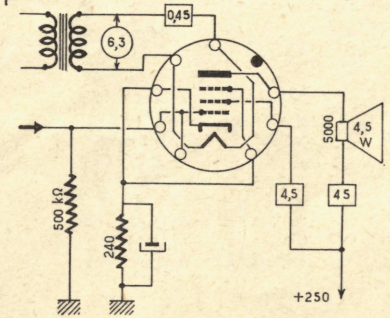
6BU6 (M)
BF + D

S = 1,9
ρ = 8.500
V = 9



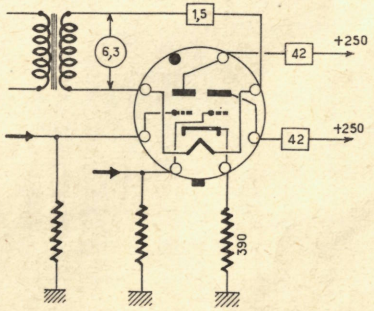
6BW6 (M)
P

S = 4,1
ρ = 52 kΩ
V = −12,5



6BX7 (SM)
BF (T)

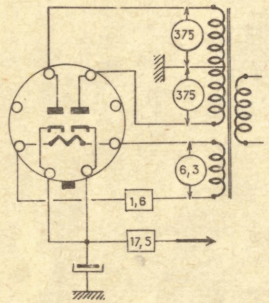
S = 7,6
ρ = 1300
μ = 10



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

6BY5 ⓪

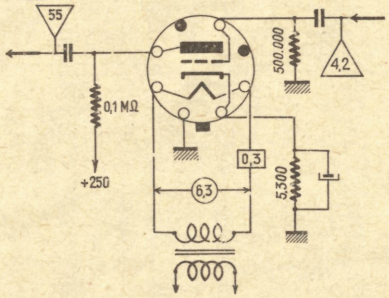
R



6C5 ⓪

BF

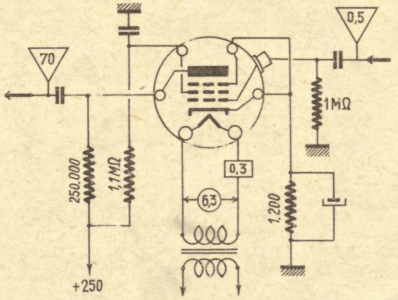
S = 2
ρ = 10.000
V = −8
I = 8



6C6 (US)

BF

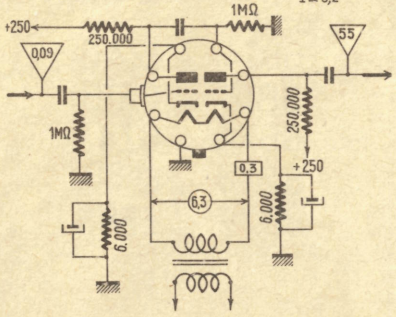
S = 1,2
ρ = 1 MΩ
V = 3



6C8 ⓪

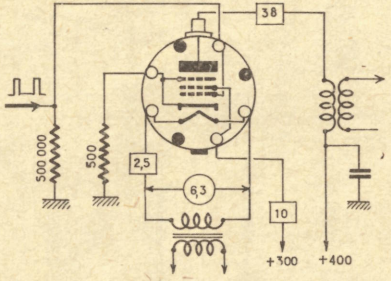
BF + BF

S = 1,6
ρ = 22.500
V = −4,5
I = 3,2



6CD6 ⓪

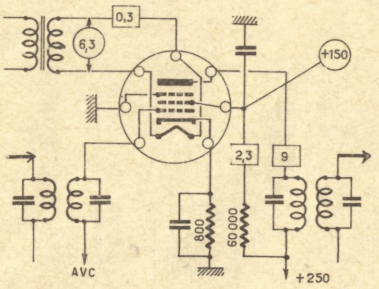
P (T)



6C4 = EC90
6CA4 = EZ81
6CA7 = EL34
6CB6 = EF190
6CD7 = EM34
6CJ5 = EF41

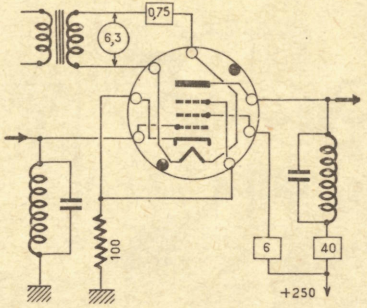
6CG6 (M)
HF

S = 2
ρ = 0,72 MΩ
V = −8



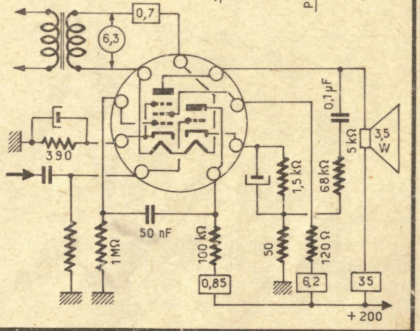
6CH6 (N)
HF(T)

S = 11
ρ = 50 kΩ
V = −4,5



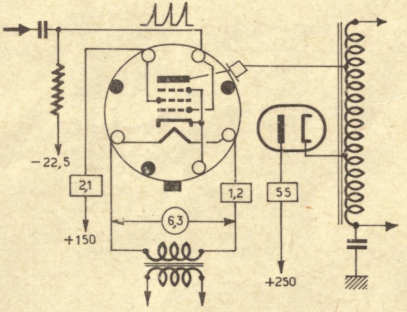
6CN8 (N)
BF(T)

TRIODE: S = 4,9 ρ = 12 kΩ V = −12 μ = 60
PENTHODE: S = 6,6,4 ρ = 20 kΩ V = −16

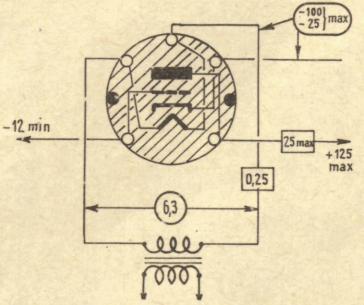


6CU6 (O)
P(T)

S = 5,5
ρ = 20 kΩ
V = −22,5



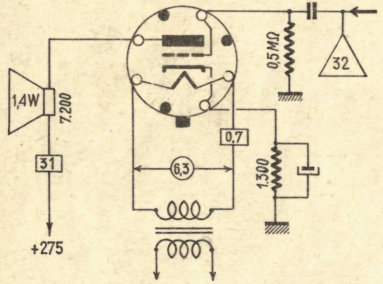
6D4 (M)
(THYR.)



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

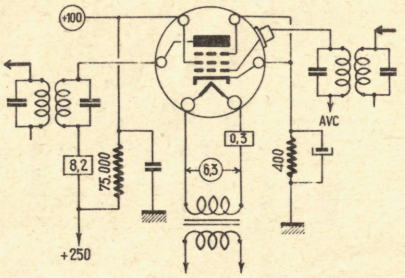
6D5 ⓞ
P

S = 2,1
ρ = 2.250
V = −40



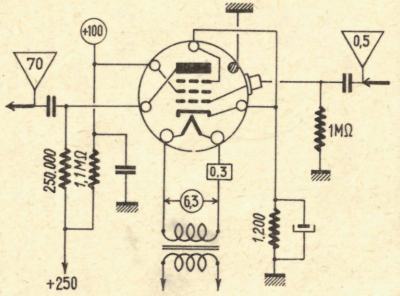
6D6 (US)
HF (V)

S = 1,6
ρ = 0,8 MΩ
V = −3 −50



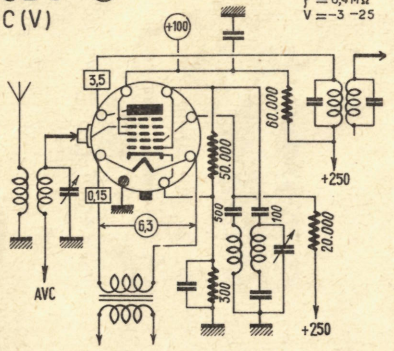
6D7 (6C6) ⓞ
BF

S = 1,2
ρ = 1 MΩ
V = −3



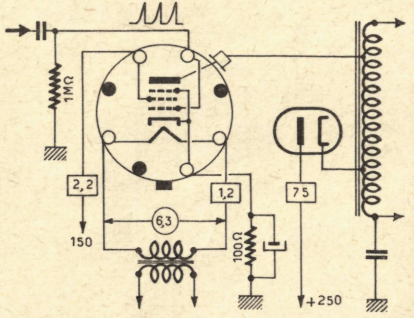
6D8 ⓞ
C (V)

Sc = 0,55
ρ = 0,4 MΩ
V = −3 −25



6DQ6A ⓞ
P (T)

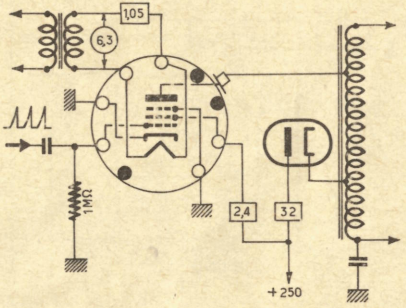
S = 6,6
ρ = 20 kΩ
V = −22,5



6CS6 = EH90
6CT7 = EAF42
6CU7 = ECH42
6CV7 = EBC41
6CW7 = ECC84
6DA5 = EM81

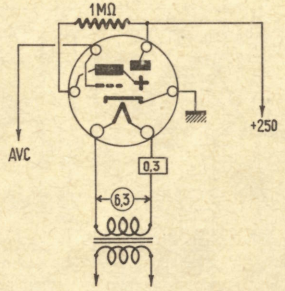
6DR6 (N)
P (T)

S = 4,6
ρ = 15 kΩ
V = −38,5



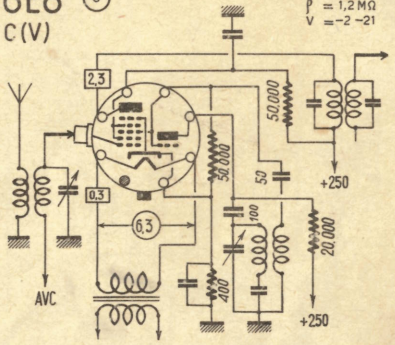
6E5 (US)
I

V = 0-8



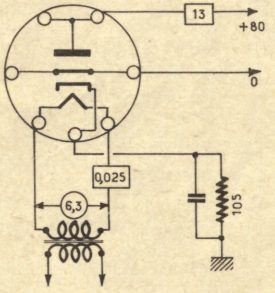
6E8 (O)
C (V)

Sc = 0,65
ρ = 1,2 MΩ
V = −2 −21



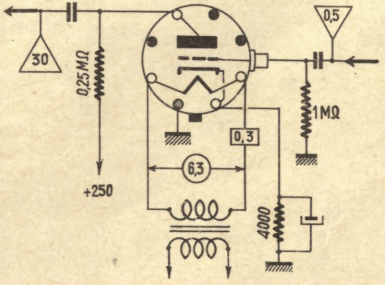
6F4 (S)
VHF (T) 400 MHz

S = 5,8
ρ = 2,9 kΩ
μ = 17



6F5 (O)
BF

S = 1,5
ρ = 66.000
V = −2
I = 0,9

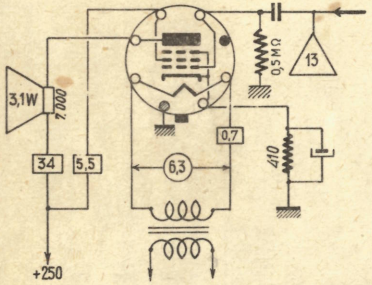


6DA6 = EF89
6DC8 = EBF89
6DL5 = EL95
6DU6 = EM85

6F6 ⓞ

P

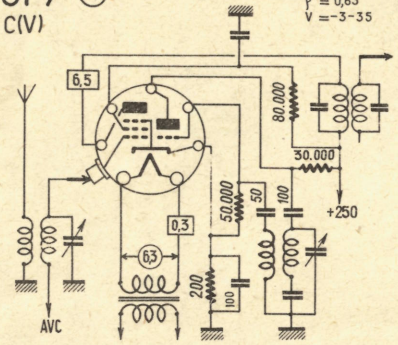
S = 2,5
ρ = 80.000
V = −16,5



6F7 (US)

C(V)

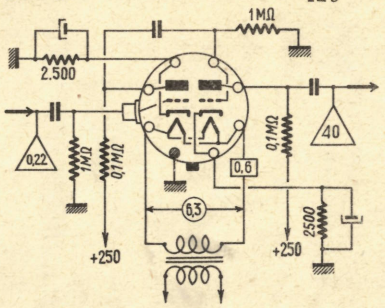
Sc = 0,350
ρ = 0,85
V = −3-35



6F8 (2×6J5) ⓞ

BF + BF

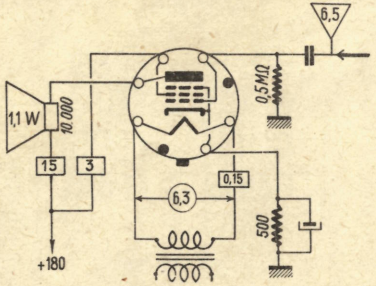
S = 2,6
ρ = 7.700
V = −8
I = 9



6G6 ⓞ

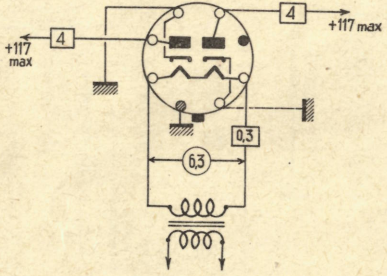
P

S = 2,3
ρ = 0,175 MΩ
V = −9



6H6 ⓞ

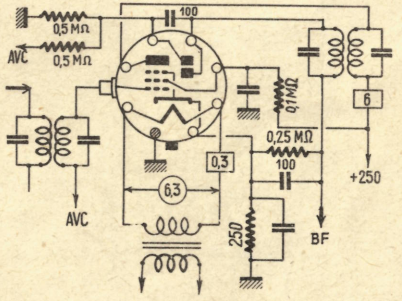
D



6H8 ⓞ

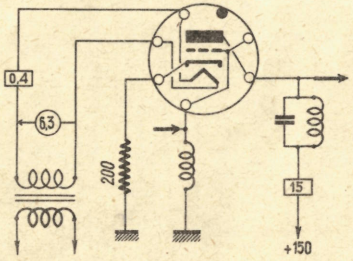
HF (V) + D

S = 1,8
ρ = 1,2 MΩ
V = −3 −22



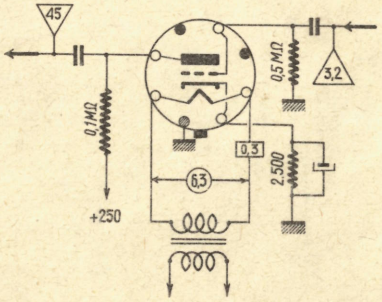
6J4 (M)
HF (T)

S = 12
ρ = 4.500
V = −3



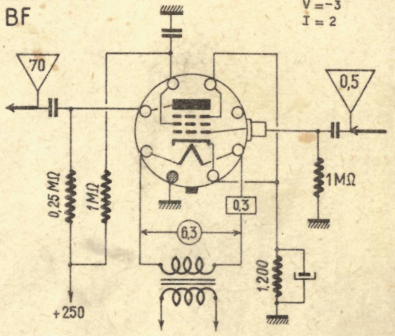
6J5 (O)
BF

S = 2,6
ρ = 7.700
V = −8
I = 9



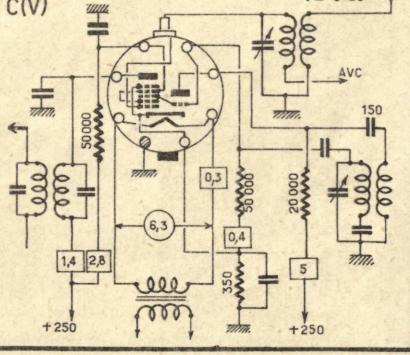
6J7 (O)
BF

S = 1,22
ρ = 1,5MΩ
V = −3
I = 2



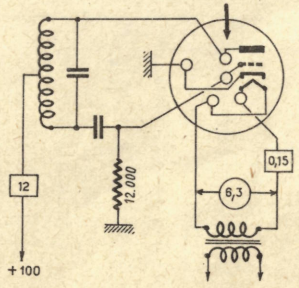
6J8 (O)
C(V)

S = 0,29
ρ = 4MΩ
V = −3-20



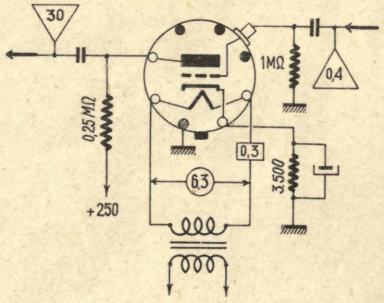
6K4 (SM)
O(VHF)

S = 5,5
ρ = 3.500
V = −2



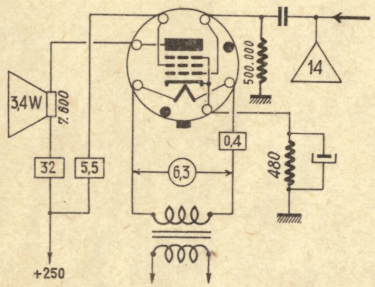
6K5 (O)
BF

S = 1,4
ρ = 50.000
V = −3



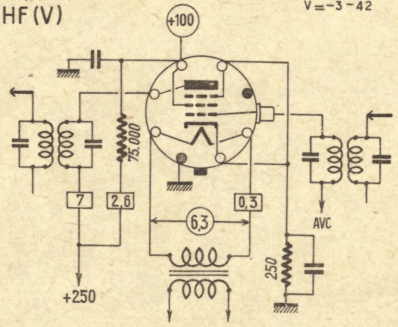
6K6 ⓪
P

S = 2,3
ρ = 68.000
V = −18



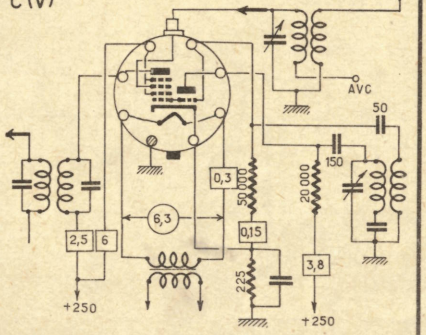
6K7 ⓪
HF (V)

S = 1,45
ρ = 0,8 MΩ
V = −3 −42



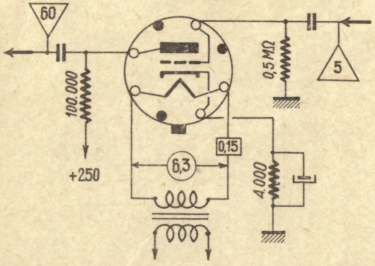
6K8 ⓪
C (V)

S = 0,35
ρ = 0,8 MΩ
V = −3 −30



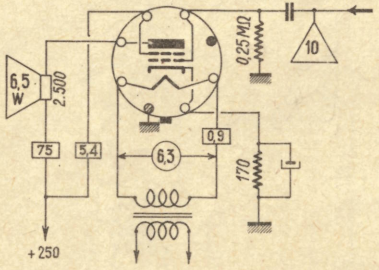
6L5 ⓪
BF

S = 1,9
ρ = 9.000
V = −9
I = 8

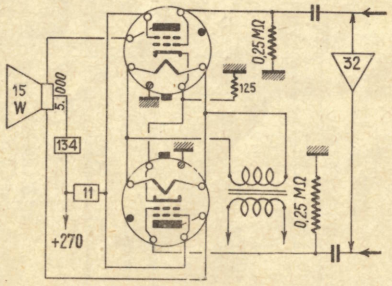


6L6 ⓪
P

S = 6
ρ = 22.500
V = −14

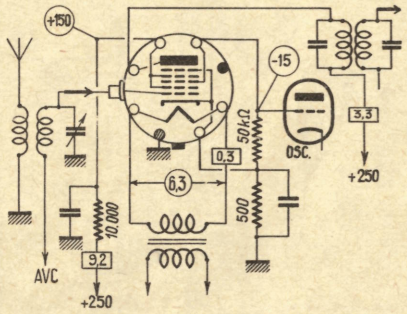


6L6 ⓪
P(Cl. AB)



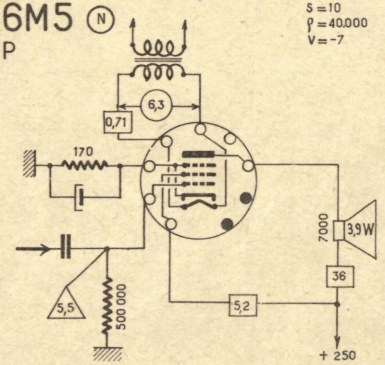
6L7 ⓪
C(V)

Sc = 0,35
ρ = 1,5 MΩ
V = −6 −45



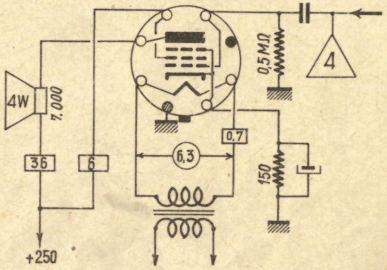
6M5 Ⓝ
P

S = 10
ρ = 40.000
V = −7



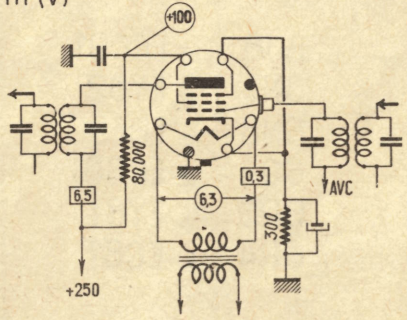
6M6 ⓪
P

S = 9,5
ρ = 50.000
V = −6



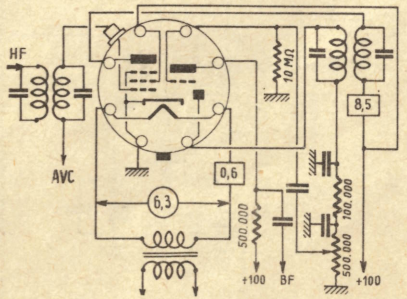
6M7 ⓪
HF(V)

S = 2,8
ρ = 1,5 MΩ
V = −2,5 −26



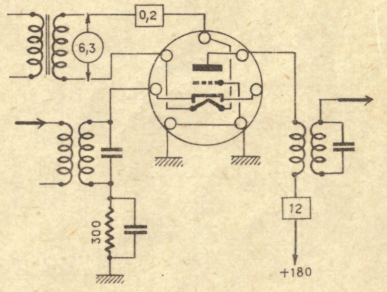
6M8 ⓪
HF(V) +D+BF

PENTHODE: S = 1,9; Vg2 = 0; II = 0,2; V = −3 −20
TRIODE: S = 1,1; ρ = 91.000; V = −1



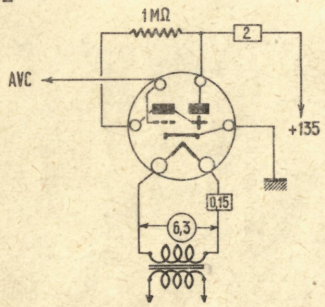
6N4 Ⓜ
HF(VHF)

S = 6
ρ = 5.400
V = −3,5



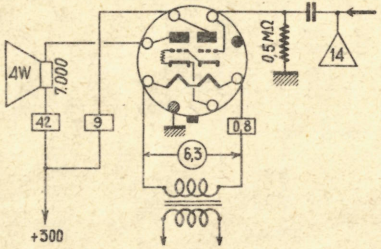
6N5 (US)
I

V = 0 -15,5



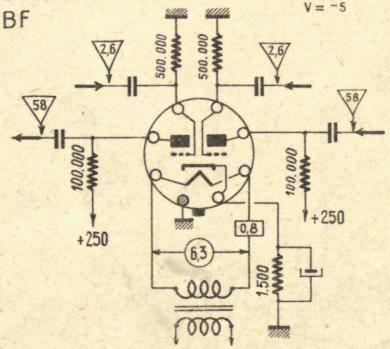
6N6 (O)
P

S = 2,4
ρ = 24.000
V = 0



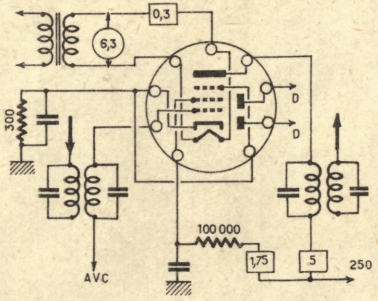
6N7 (O)
BF

S = 1,6
ρ = 22.000
V = -5



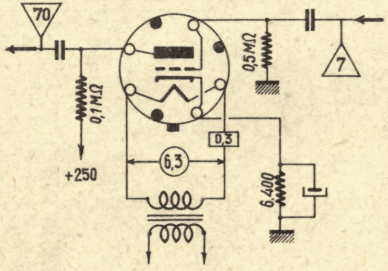
6N8 (N)
HF (V) +D

S = 2,2
ρ = 1,6MΩ
V = -2 -20



6P5 (O)
BF

S = 1450
ρ = 9.500
V = -13,5
I = 5



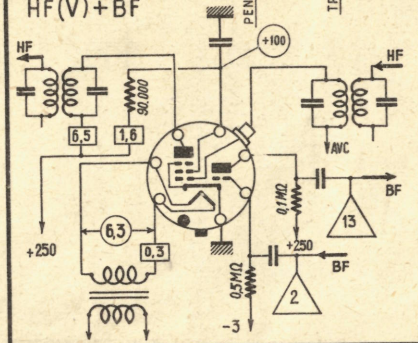
6J6 = ECC91
6N3 = EY82
6N8 = EBF80
6Q4 = EC80
6R3 = EY81
6R4 = EC81

6P7 (6F7) ⓪

HF(V)+BF

PENTHODE S = 1,1 ρ = 0,85 V = −3...35

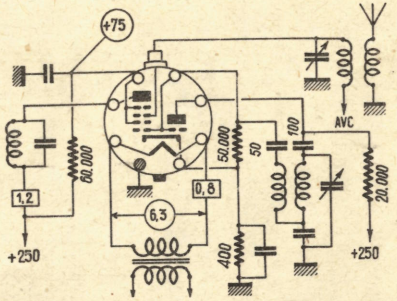
TRIODE S = 0,5 ρ = 16.000 V = −3



6P8 ⓪

C (V)

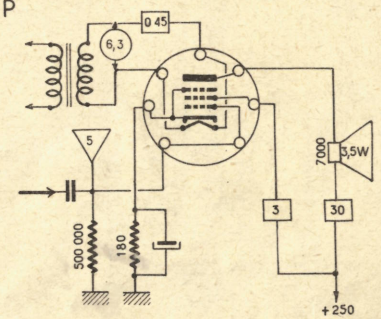
Sc = 0,5 ρ = 1 MΩ V = −3 −25



6P9 Ⓜ

P

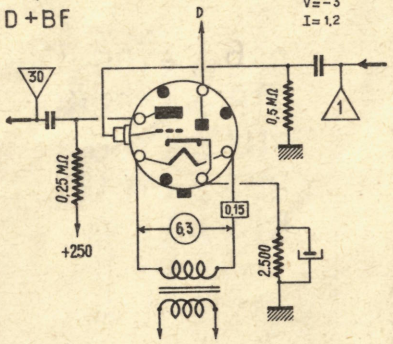
S = 7 ρ = 60.000 V = −6



6Q6 ⓪

D + BF

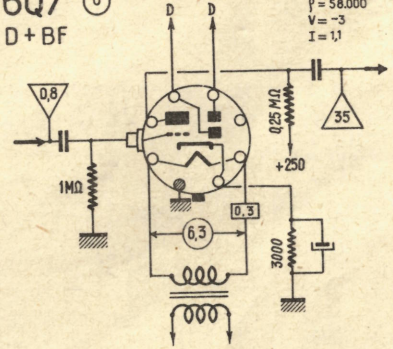
S = 1 ρ = 62.000 V = −3 I = 1,2



6Q7 ⓪

D + BF

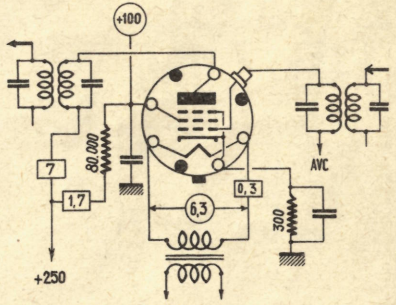
S = 1,2 ρ = 58.000 V = −3 I = 1,1



6R6 ⓪

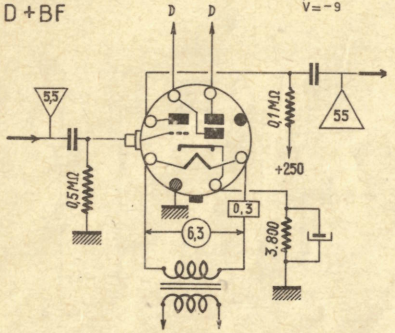
HF (V)

S = 1,4 ρ = 0,8 MΩ V = −3 −25



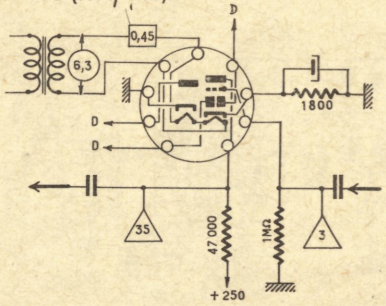
6R7 ⓪
D+BF

S = 1,9
ρ = 8.500
V = −9



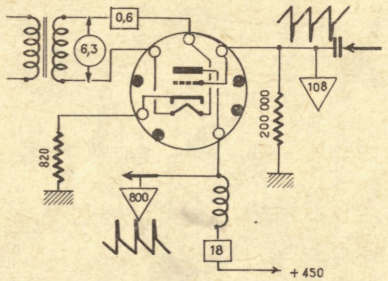
6R8 Ⓝ
BF+D (AM/FM)

S = 1,9
ρ = 8.500
V = −9



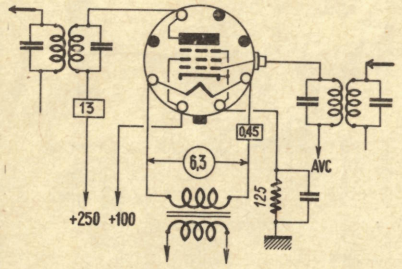
6S4 Ⓝ
HF(T)

S = 4,5
ρ = 3.600
V = −8



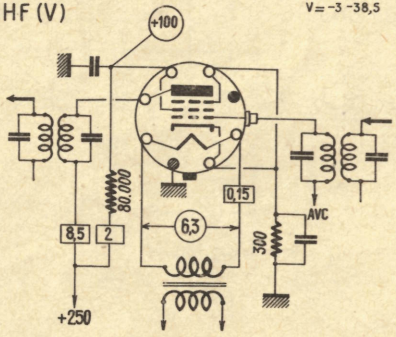
6S6 ⓪
HF(V)

S = 4
ρ = 0,35 MΩ
V = −2 −25



6S7 ⓪
HF (V)

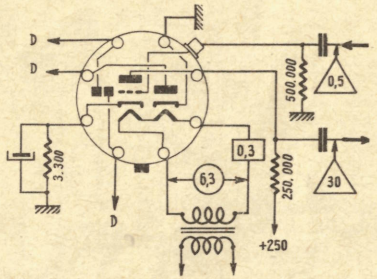
S = 1,7
ρ = 1MΩ
V = −3 −38,5



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

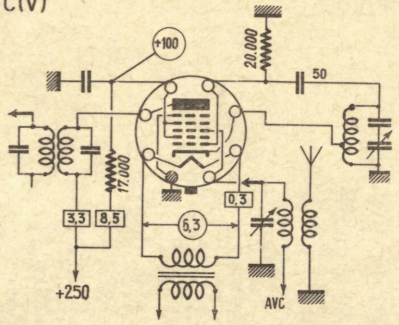
6S8 ⓪
D+BF (FM)

S = 1,1
ρ = 91.000
V = −1



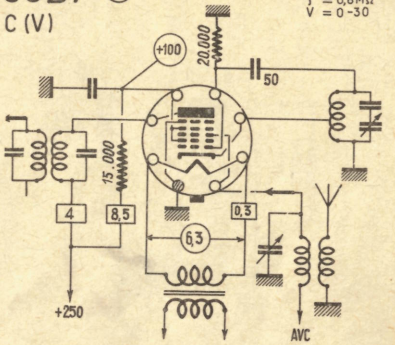
6SA7 ⓪
C(V)

Sc = 0,45
ρ = 1 MΩ
V = 0–35



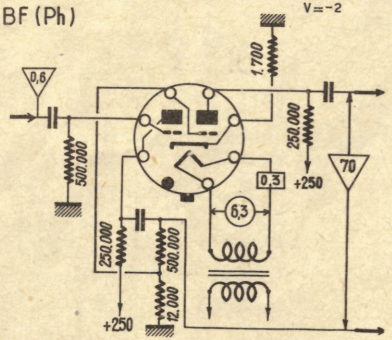
6SB7 ⓪
C (V)

Sc = 0,88
ρ = 0,8 MΩ
V = 0–30



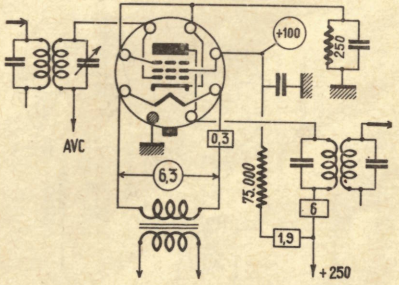
6SC7 ⓪
BF (Ph)

S = 1,325
ρ = 53.000
V = −2



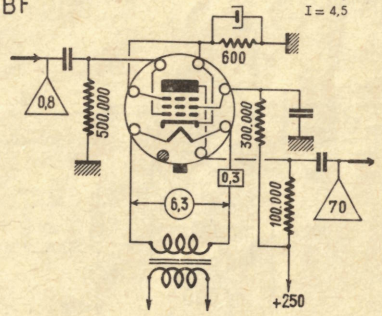
6SD7 ⓪
HF (V)

S = 3,6
ρ = 1 MΩ
V = −2–25



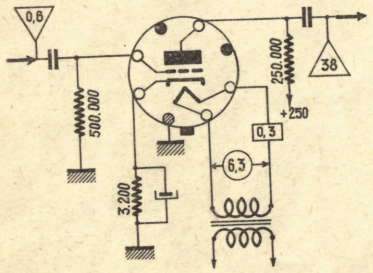
6SE7 ⓪
BF

S = 3,4
ρ = 1,1 MΩ
V = −1,5
I = 4,5



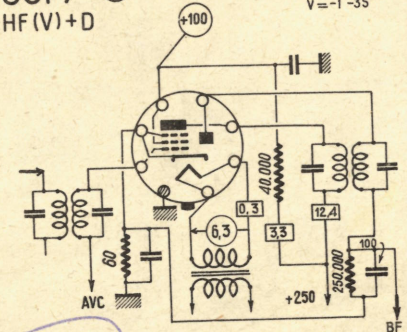
6SF5 ⓪
BF

S = 1,5
ρ = 66.000
V = −2



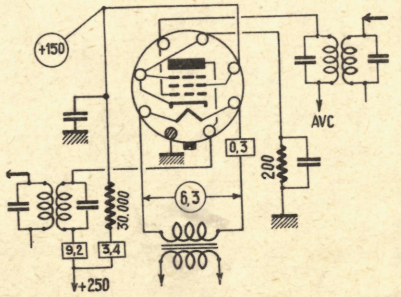
6SF7 ⓪
HF(V)+D

S = 2
ρ = 0,7 MΩ
V = −1 −35



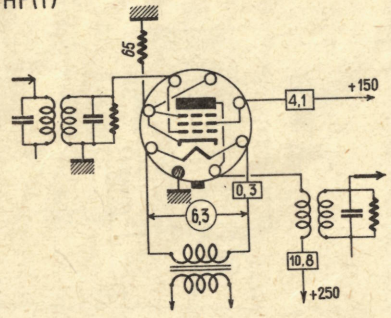
6SG7 ⓪
HF(V)

S = 4
ρ = 1 MΩ
V = −2,5−17,5



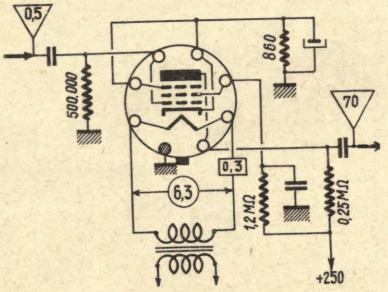
6SH7 ⓪
HF(T)

S = 4,9
ρ = 0,9 MΩ
V = −1



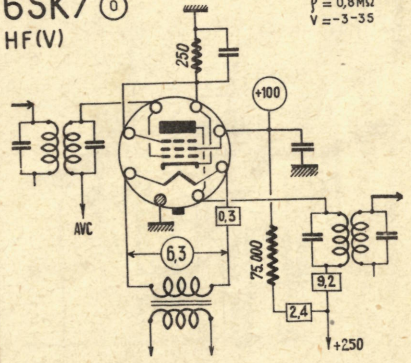
6SJ7 ⓪
BF

S = 1,6
ρ = 1,5 MΩ
V = −3
I = 9,2



6SK7 ⓪
HF(V)

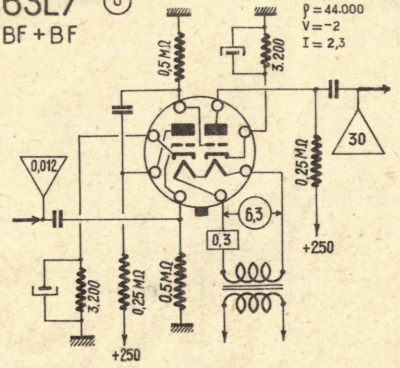
S = 2
ρ = 0,8 MΩ
V = −3−35



6SL7 ⓪

BF + BF

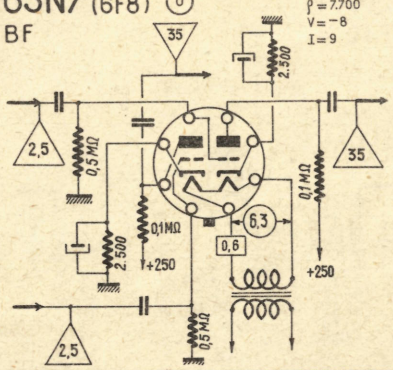
S = 1,6
ρ = 44.000
V = −2
I = 2,3



6SN7 (6F8) ⓪

BF

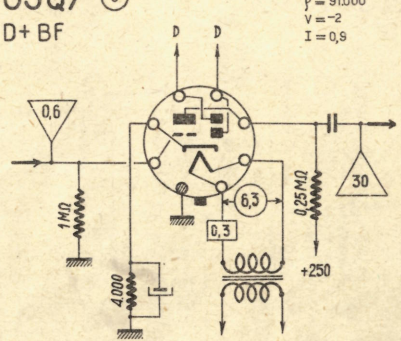
S = 2,6
ρ = 7.700
V = −8
I = 9



6SQ7 ⓪

D + BF

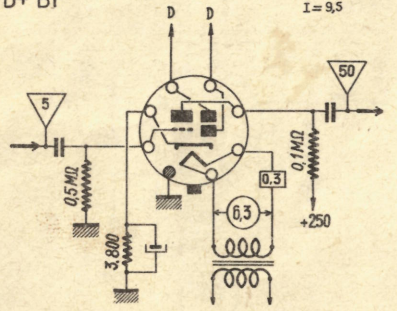
S = 1,1
ρ = 91.000
V = −2
I = 0,9



6SR7 ⓪

D + BF

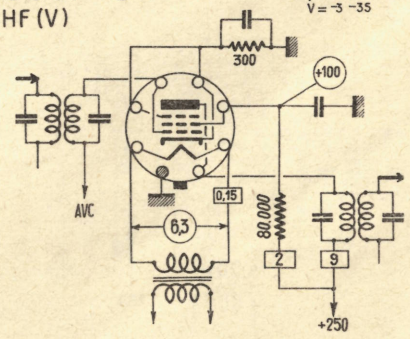
S = 1,9
ρ = 8.500
V = −9
I = 9,5



6SS7 ⓪

HF (V)

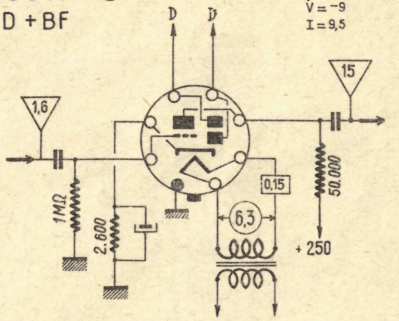
S = 1,8
ρ = 1 MΩ
V = −3 −35



6ST7 ⓪

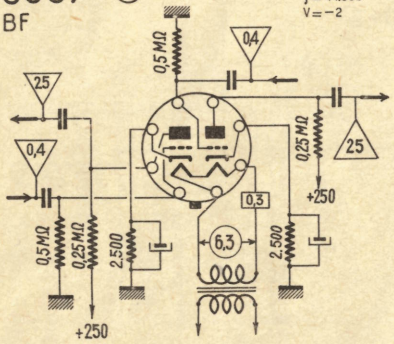
D + BF

S = 1,9
ρ = 8.500
V = −9
I = 9,5



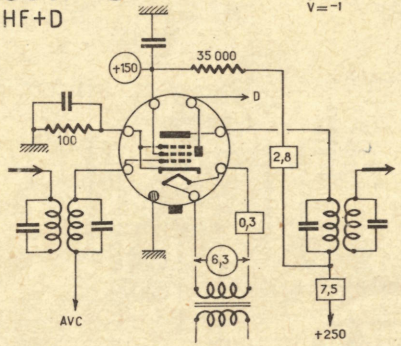
6SU7 ⓪
BF

S = 1,6
ρ = 44.000
V = −2



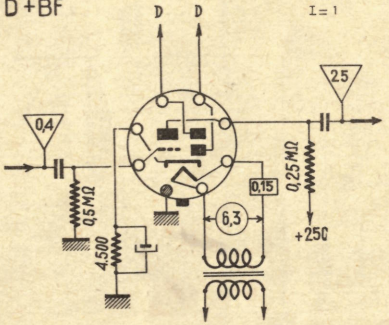
6SV7 ⓪
HF+D

S = 3,6
ρ = 1,5 MΩ
V = −1



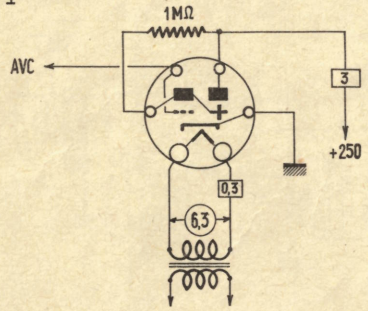
6SZ7 ⓪
D+BF

S = 1,2
ρ = 58.000
V = −3
I = 1



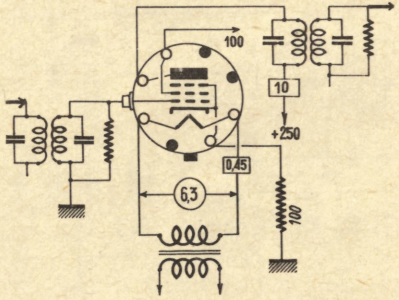
6T5 ⓤⓢ
I

V = 0 − 22



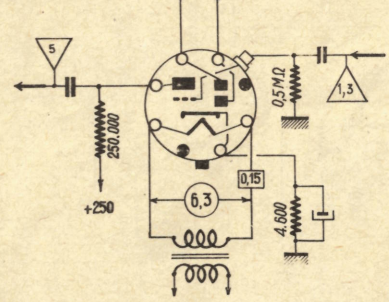
6T6 ⓪
HF

S = 5,5
ρ = 1 MΩ
V = −1



6T7 ⓪
D+BF

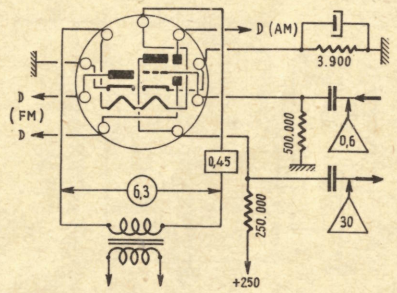
S = 1
ρ = 62.000
V = −3
I = 1,2



6T8 (AM/FM) (N)

D + BF

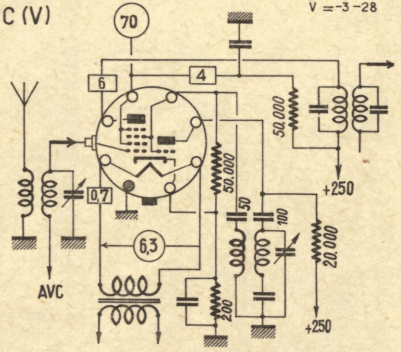
S = 1,2
P = 58.000
V = -3



6TH8 (0)

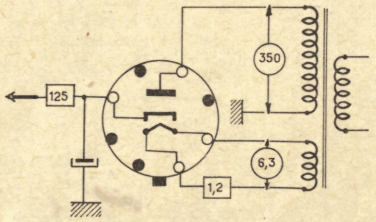
C (V)

S = 0,8
P = 1 MΩ
V = -3 -28



6U4 (0)

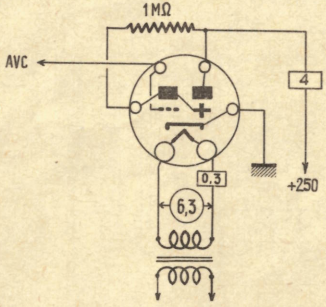
R



6U5/6G5 (US)

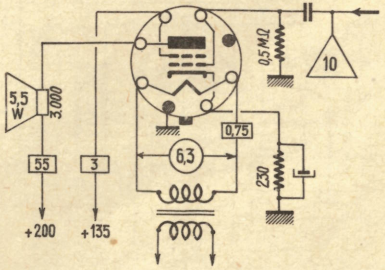
I

V = 0-22



6U6 (0)

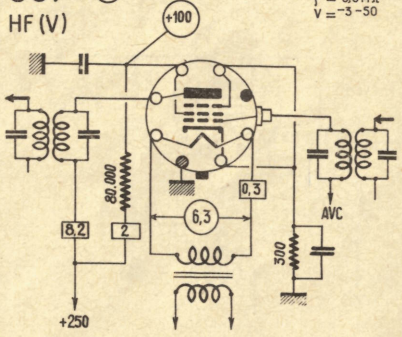
S = 6,2
P = 20000
V = -14



6U7 (0)

HF (V)

S = 1,6
P = 0,8 MΩ
V = -3 -50

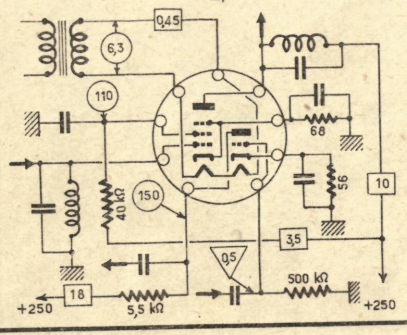


6U8 (N)

HF_BF(T)

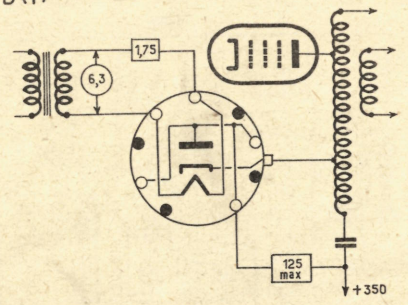
PENTHODE: S = 5,2 ; ρ = 400 kΩ ; μ = 400

TRIODE: S = 8,5 ; ρ = 5 kΩ ; μ = 40



6V3 (N)

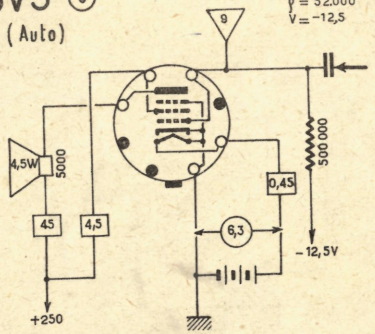
D(T)



6V5 (O)

P (Auto)

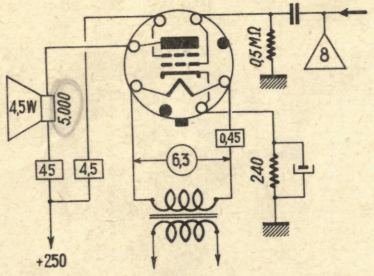
S = 4,1
ρ = 52.000
V = −12,5



6V6 (O)

P

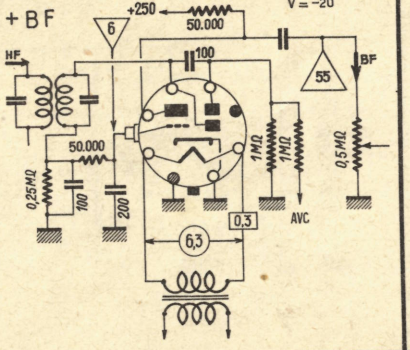
S = 4,1
ρ = 52.000
V = −12,5



6V7=85 (O)

D + BF

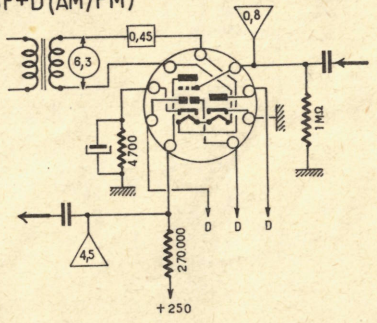
S = 1,1
ρ = 7.500
V = −20



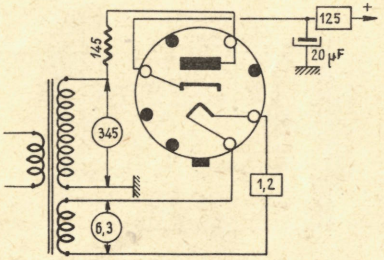
6V8 (N)

BF+D(AM/FM)

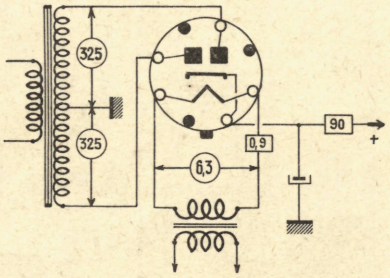
S = 12
ρ = 58.000
V = −3



6W4 ⓪
R(T)

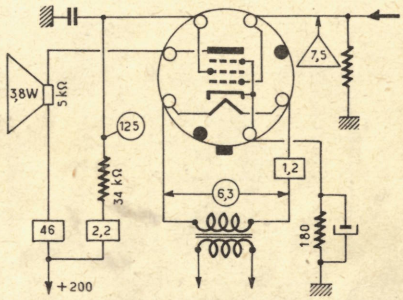


6W5 ⓪
R



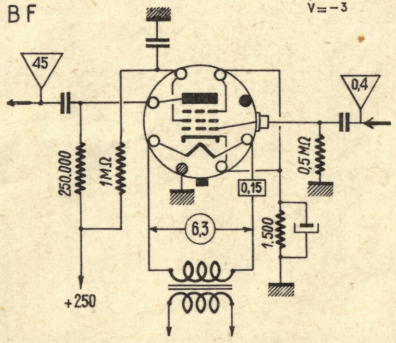
6W6 ⓪
P(T)

S = 8
ρ = 28 kΩ
V = −7,5

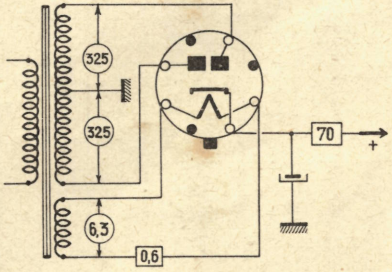


6W7 (6J7) ⓪
BF

S = 1,22
ρ = 1,5 MΩ
V = −3



6X5 ⓪
R

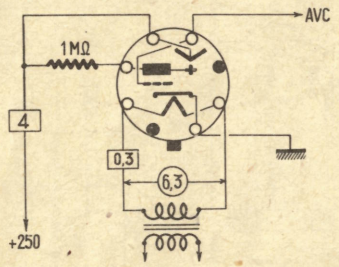


6X2 = EY51
6X4 = EZ90
7AN7 = PCC84

6X6 (6E5) ⓪

I

V = 0 −8

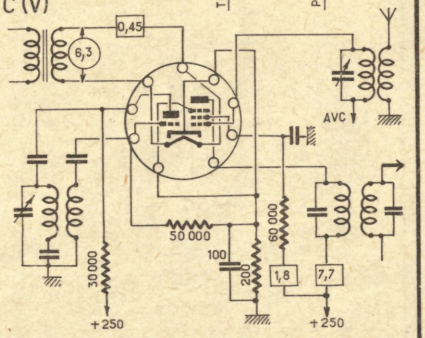


6X8 Ⓝ

C (V)

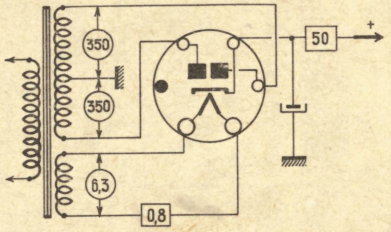
TRIODE S = 58 ρ = 6000 V = −3

PENTHODE S = 4,6 ρ = 0,75MΩ V = −3



6Y5 Ⓤⓢ

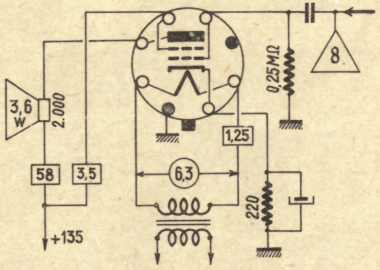
R



6Y6 ⓪

P

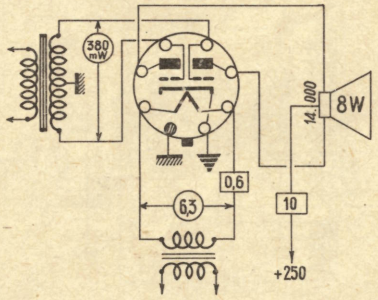
S = 7
ρ = 9300
V = −13,5



6Y7 (79) ⓪

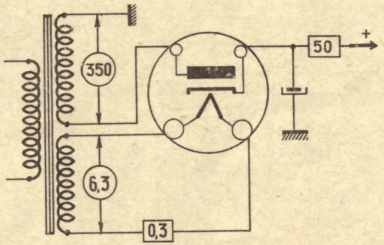
P (Cl.B)

V = 0

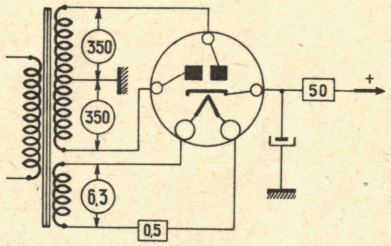


6Z3 Ⓤⓢ

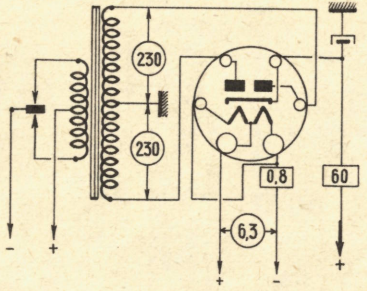
R



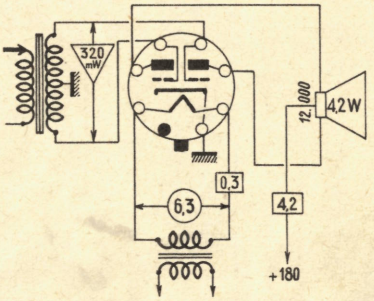
6Z4 (US)
R



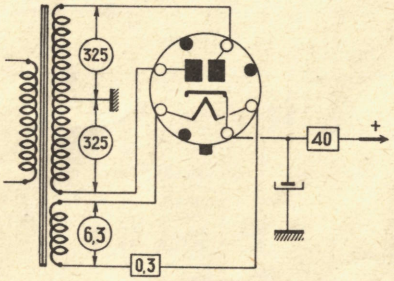
6Z5 (US)
R



6Z7 (O)
P(Cl.B)

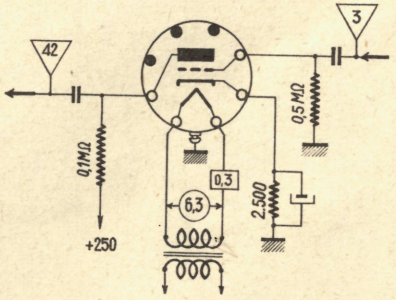


6ZY5 (O)
R



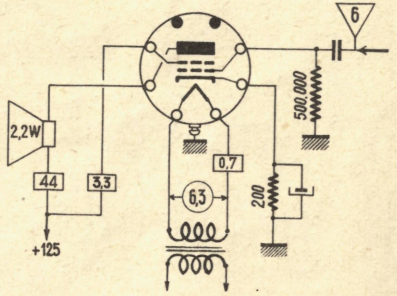
7A4 (6J5) (L)
BF

S = 2,6
ρ = 7700
V = -8
I = 9



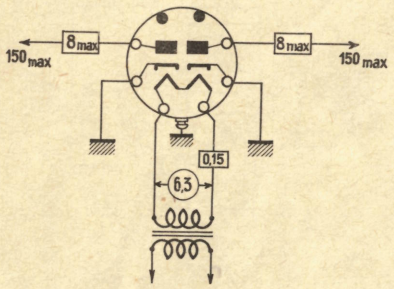
7A5 (L)
P

S = 6
ρ = 17.000
V = -9



7A6 (6H6) L

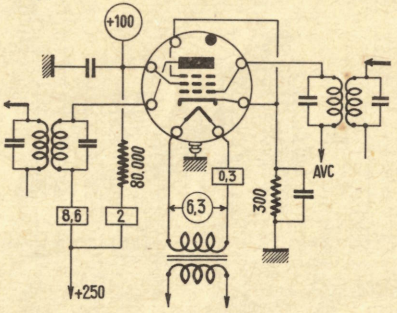
D



7A7 (6SK7) L

HF (V)

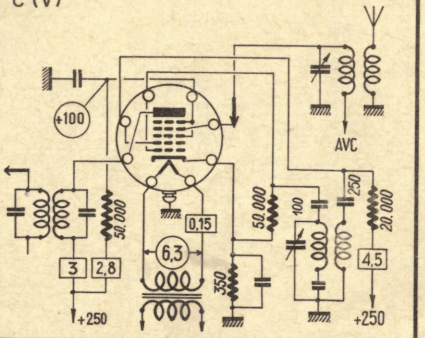
S = 2
ρ = 0,8 MΩ
V = -3 -35



7A8 (6A8) L

C (V)

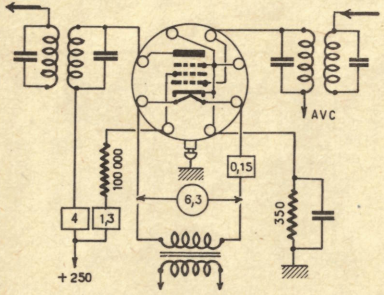
Sc = 0,6
ρ = 0,7
V = -3 -30



7AB7 L

HF

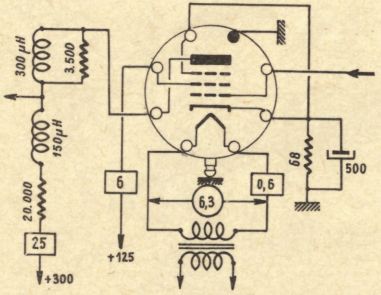
S = 1,8
ρ = 0,5 MΩ
V = -2 -18



7AD7 L

HF (T)

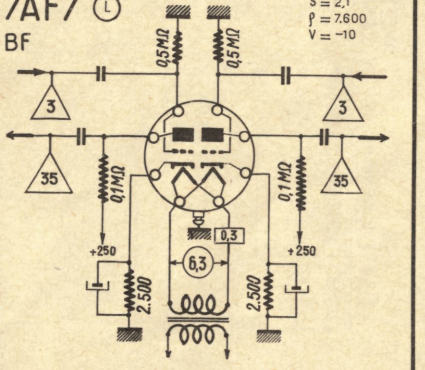
S = 9,5
ρ = 0,3 MΩ
V = -3



7AF7 L

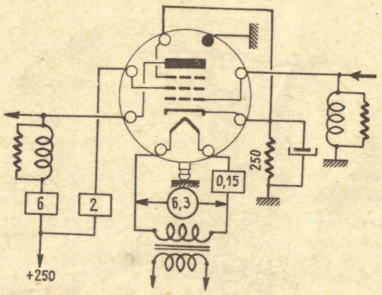
BF

S = 2,1
ρ = 7.600
V = -10



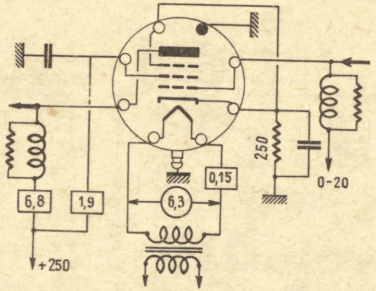
7AG7 (L)
HF (T)

S = 4,2
ρ = > 1MΩ
V = -2



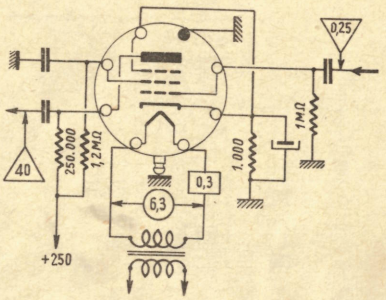
7AH7 (L)
HF (T)

S = 3,3
ρ = 1MΩ
V = -2 -20



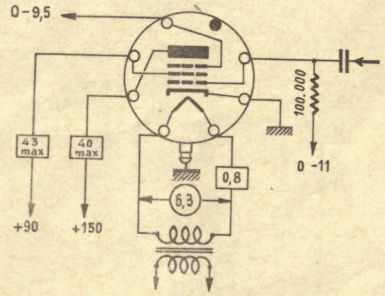
7AJ7 (6SJ7) (L)
BF

S = 1,57
ρ = 1MΩ
V = -3



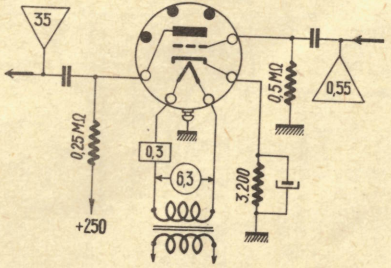
7AK7 (L)
HF (T)

S = 6,5
ρ = 11.500
V = 0-11



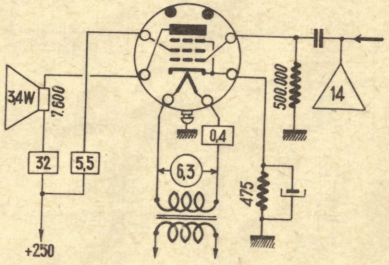
7B4 (6SF5) (L)
BF

S = 1,5
ρ = 66.000
V = -2



7B5 (6K6) (L)
P

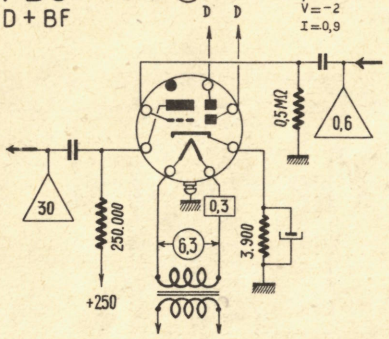
S = 2,3
ρ = 68.000
V = -18



7B6 (6SQ7) L

D + BF

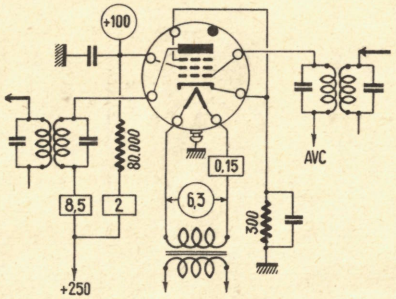
S = 1,1
ρ = 91.000
V = −2
I = 0,9



7B7 L

HF (V)

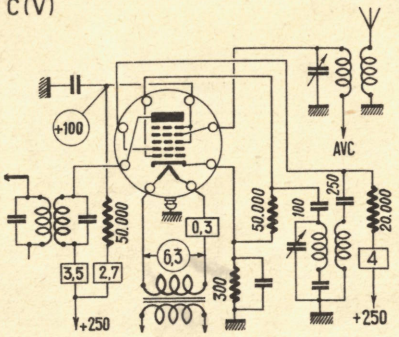
S = 1,7
ρ = 0,75 MΩ
V = −3 -40



7B8 L

C(V)

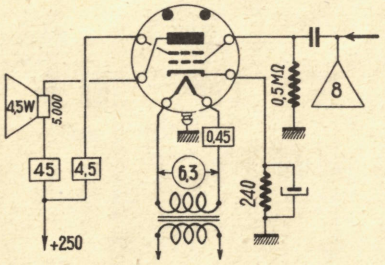
Sc = 0,55
ρ = 0,36 MΩ
V = -3 -35



7C5 (6V6) L

P

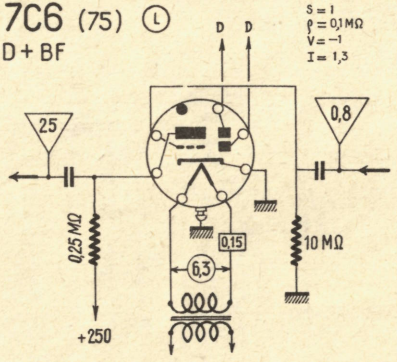
S = 4,1
ρ = 52.000
V = −12,5



7C6 (75) L

D + BF

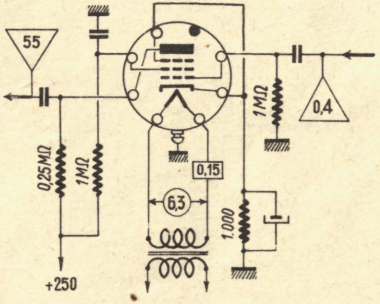
S = 1
ρ = 0,1 MΩ
V = −1
I = 1,3



7C7 (6J7) L

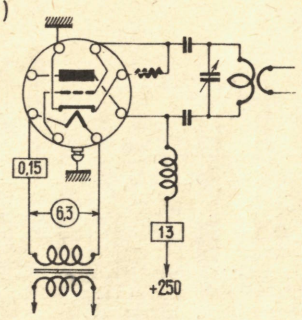
BF

S = 1,3
ρ = 2 MΩ
V = −3
I = 2



7E5 (L)

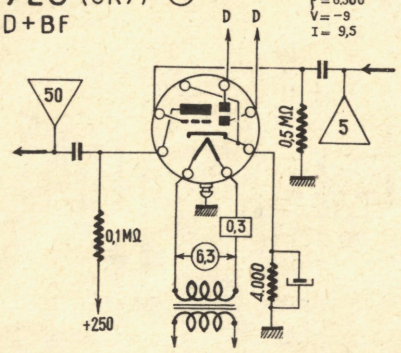
0 (VHF)



7E6 (6R7) (L)

D+BF

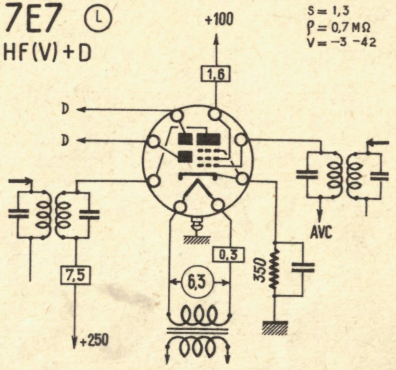
S = 1,9
ρ = 8.500
V = −9
I = 9,5



7E7 (L)

HF(V)+D

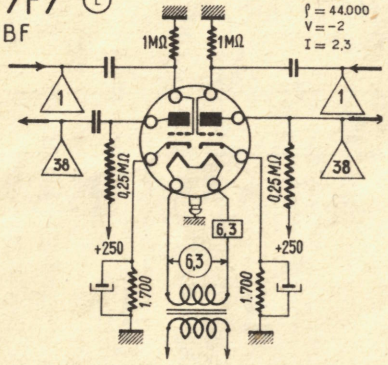
S = 1,3
ρ = 0,7 MΩ
V = −3 −42



7F7 (L)

BF

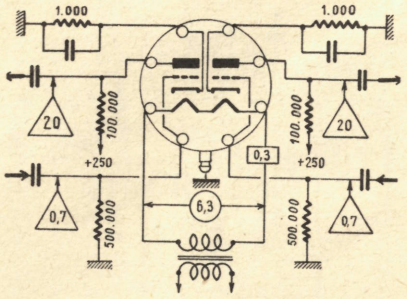
S = 1,6
ρ = 44.000
V = −2
I = 2,3



7F8 (L)

BF

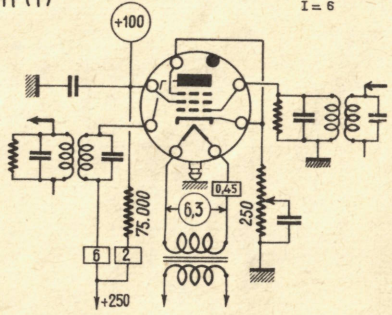
S = 3,3



7G7 (L)

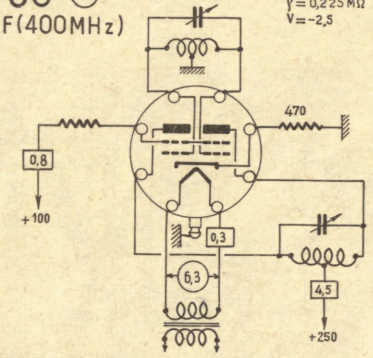
HF(T)

S = 4,5
ρ = 0,8 MΩ
V = −2
I = 6



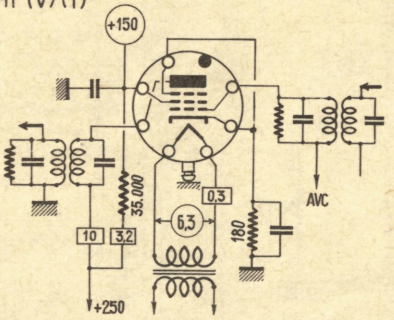
7G8 (L)
HF (400 MHz)

S = 2,1
ρ = 0,225 MΩ
V = −2,5



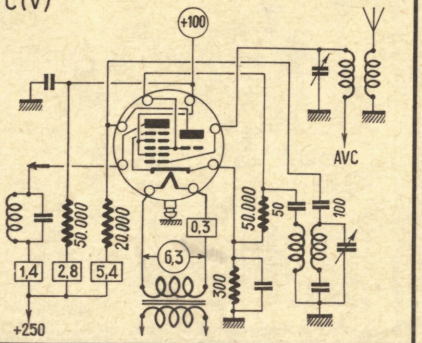
7H7 (L)
HF (V) (T)

S = 4,2
ρ = 0,8 MΩ
V = −1 −19



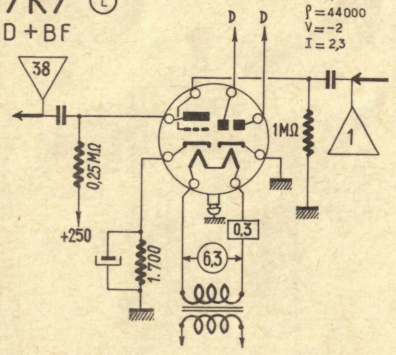
7J7 (L)
C (V)

Sc = 0,3
ρ = 1,5 MΩ
V = −3 −20



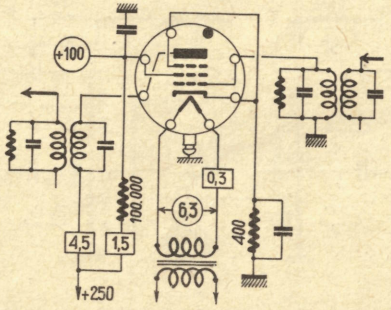
7K7 (L)
D + BF

S = 1,6
ρ = 44000
V = −2
I = 2,3



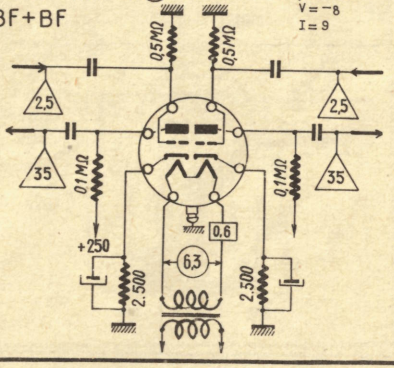
7L7 (L)
HF (T)

S = 3,1
ρ = 1 MΩ
V = −1,5



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

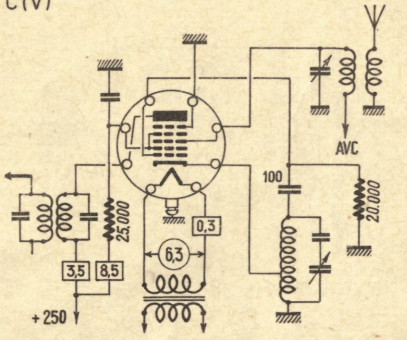
S = 2,5
ρ = 7.700
V = −8
I = 9



7Q7 (6SA7) L

C(V)

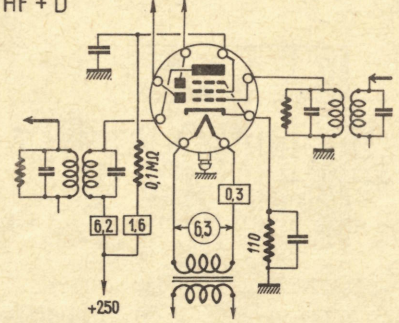
S = 0,5
ρ = 1 MΩ
V = −2 −35



7R7 L

HF + D

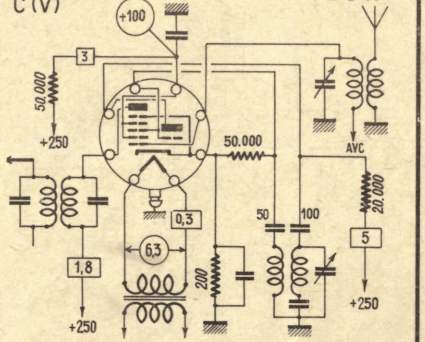
S = 3,4
ρ = 1 MΩ
V = −1



7S7 L

C(V)

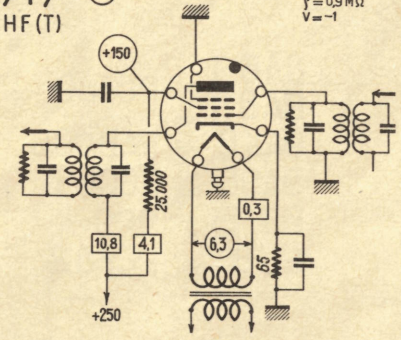
Sc = 0,5
ρ = 1 MΩ
V = −2 −30



7T7 L

HF (T)

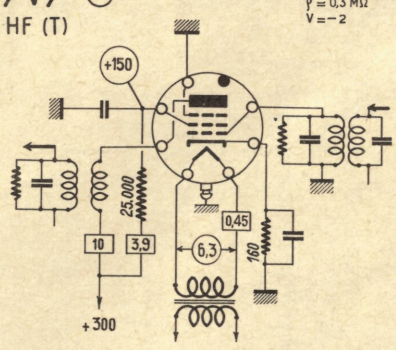
S = 4,9
ρ = 0,9 MΩ
V = −1



7V7 L

HF (T)

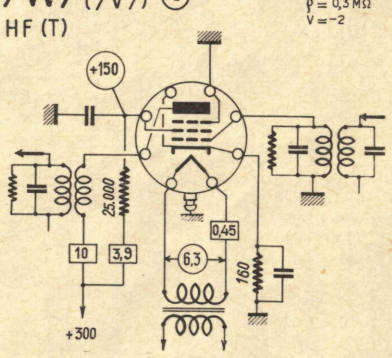
S = 5,8
ρ = 0,3 MΩ
V = −2



7W7 (7V7) L

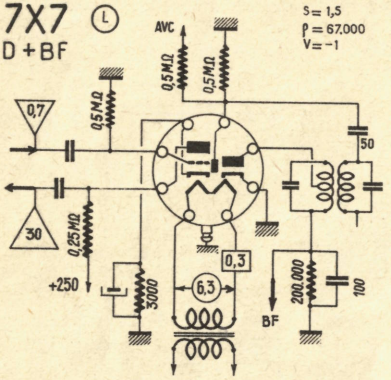
HF (T)

S = 5,8
ρ = 0,3 MΩ
V = −2

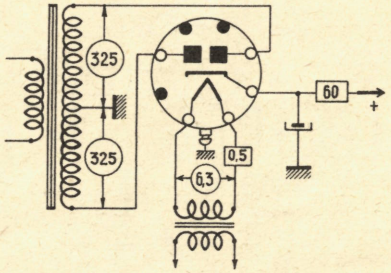


7X7 (L)
D + BF

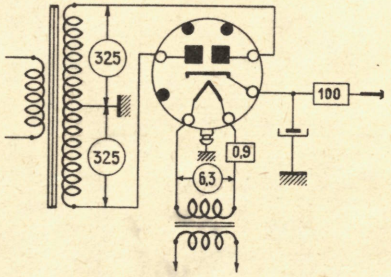
S = 1,5
ρ = 67.000
V = −1



7Y4 (L)
R

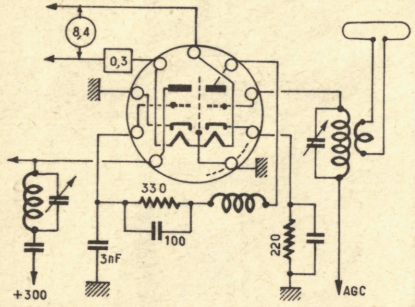


7Z4 (L)
R



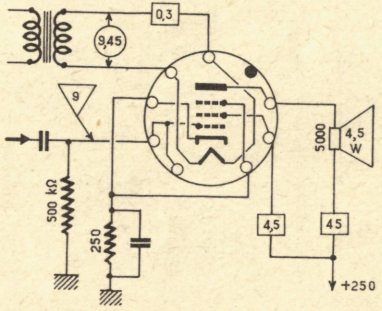
8BQ7A (N)
HF (V) (T)

S = 6,4
ρ = 6,1 kΩ
V = −2
μ = 39



9BW6 (N)
P

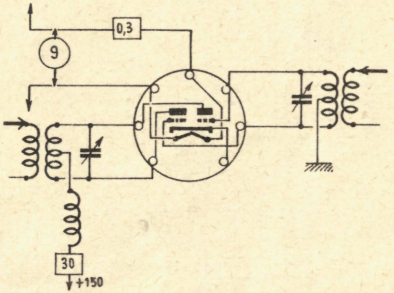
S = 4,1
ρ = 52 kΩ
V = −12,5



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

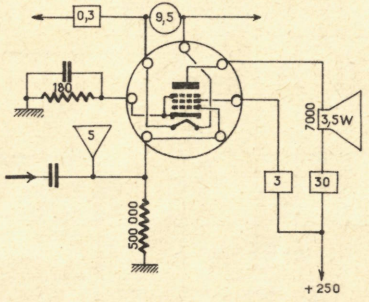
9J6 (M)
HF (T)

S = 5,3
ρ = 7.100
V = -10



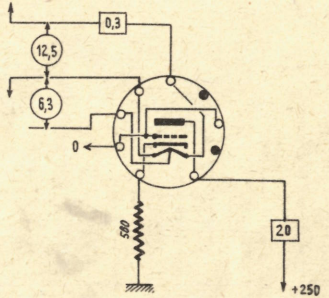
9P9/9BM5 (M)
P

S = 7
ρ = 60.000
V = -6



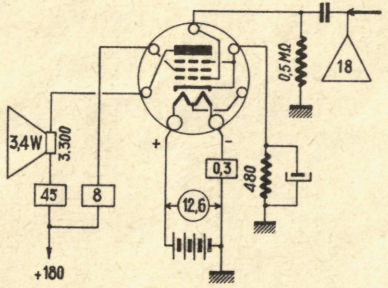
12A4 (N)
BF (T)

S = 7,8
ρ = 2.560
V = -9



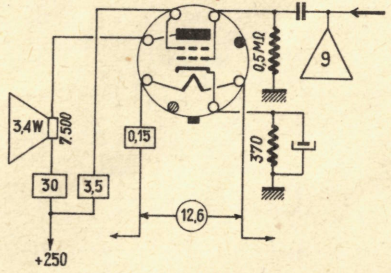
12A5 (US)
P

S = 2,4
ρ = 35.000
V = -25



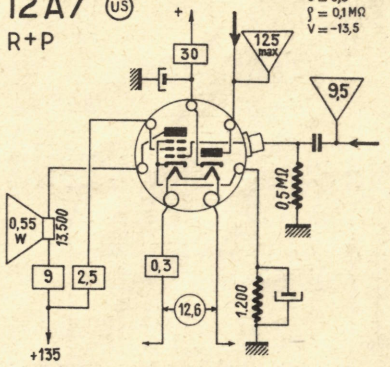
12A6 (O)
P

S = 3
ρ = 70.000
V = -12,5



12A7 (US)
R+P

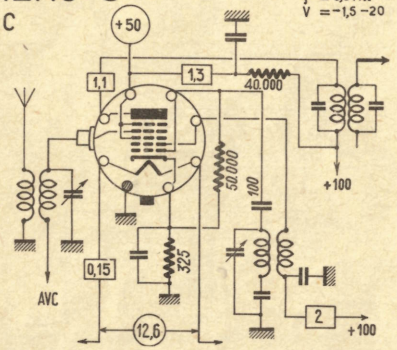
S = 0,9
ρ = 0,1 MΩ
V = -13,5



12A8 (O)

C

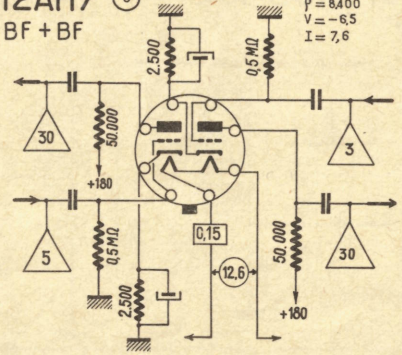
Sc = 0,36
ρ = 0,6 MΩ
V = −1,5 −20



12AH7 (O)

BF + BF

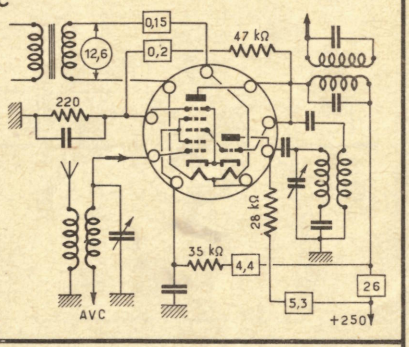
S = 1,9
ρ = 8,400
V = −6,5
I = 7,6



12AH8 (N)

C

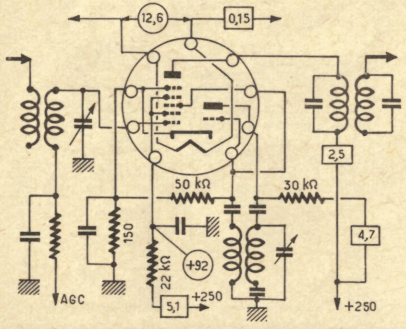
Sc = 0,5
ρ = 1,5 MΩ
V = −3 −25



12AJ8 (N)

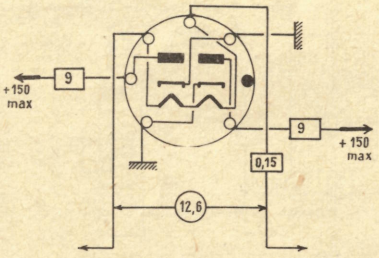
C (V)

Sc = 0,7
ρ = 1 MΩ
V = −2 −28,5



12AL5 (6AL5) (M)

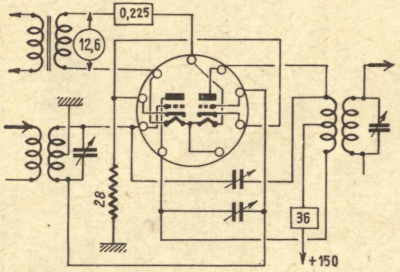
D



12AC5 = UF41
12AT6 = HBC90
12AT7 = ECC81
12AU6 = HF94
12AU7 = ECC82
12AV6 = HBC91

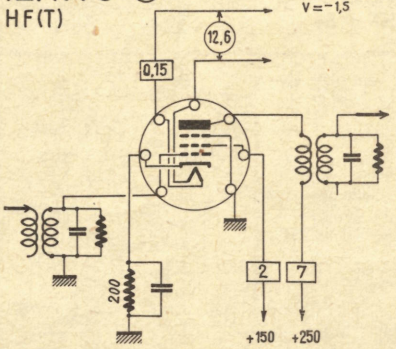
12AV7 (N)
HF (T)

S = 8,5
ρ = 4.800
V = −1

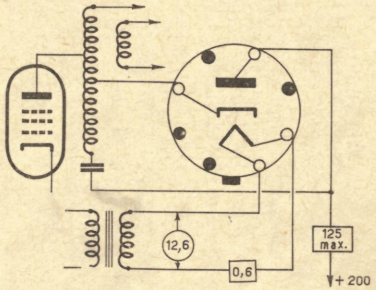


12AW6 (M)
HF(T)

S = 5
ρ = 0,8 MΩ
V = −1,5

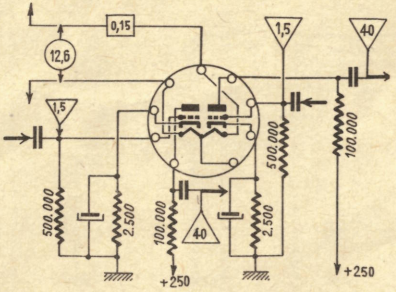


12AX4 (O)
D (T)



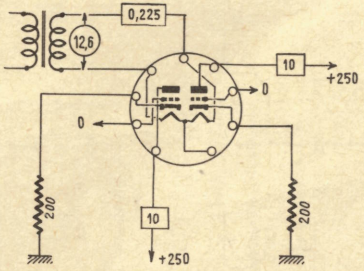
12AY7 (N)
BF

S = 1,75
ρ = 43.000
V = −4



12AZ7 (N)
HF (T)

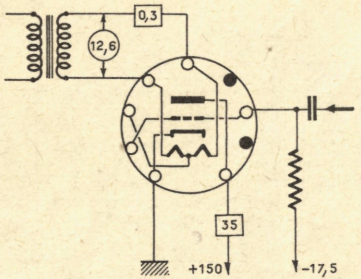
S = 5,5
ρ = 10.900
V = −2



12AY6 = 12AT6
12AX7 = ECC83
12BA6 = HF93
12BE6 = HK90
12D8 = HCH81
12S7 = UAF42

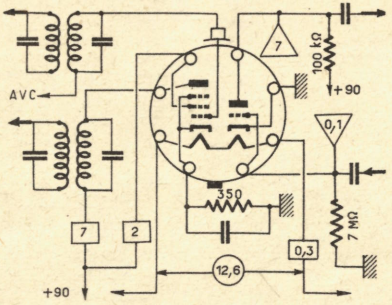
12B4 (N)
BF (T)

S = 6,5
V = −17,5 kΩ
μ = 6,5



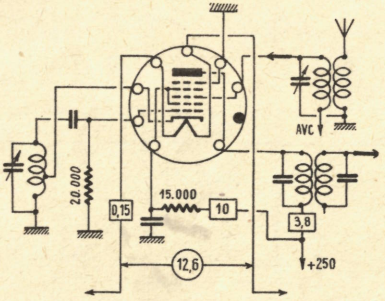
12B8 (O)
HF + BF

PENTHODE: S = 1,8; ρ = 200 kΩ; V = −3 −35
TRIODE: S = 2,4; ρ = 37 kΩ; V = 0; μ = 90



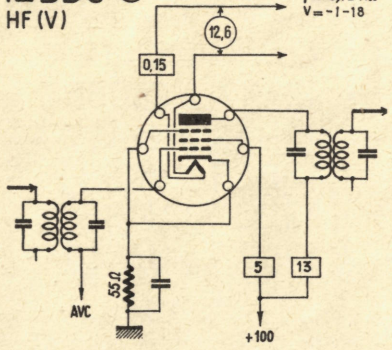
12BA7 (N)
C (V) 100 MHz

Sc = 0,95
ρ = 1 MΩ
V = 0−20



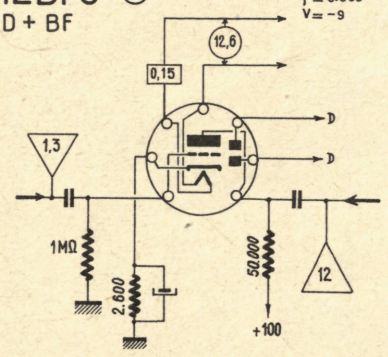
12BD6 (M)
HF (V)

S = 2,3
ρ = 0,12 MΩ
V = −1−18



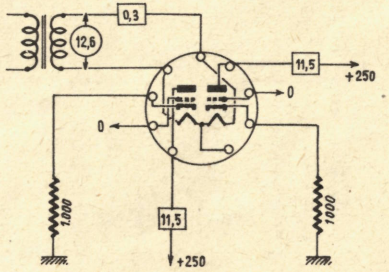
12BF6 (M)
D + BF

S = 1,9
ρ = 8.500
V = −9



12BH7 (N)
HF (T)

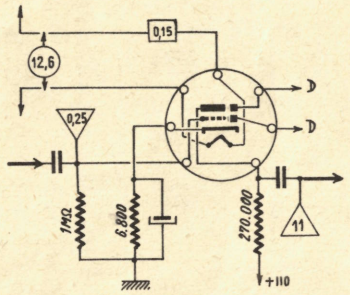
S = 3,1
ρ = 5.500
V = −10,5



12BK6 (M)

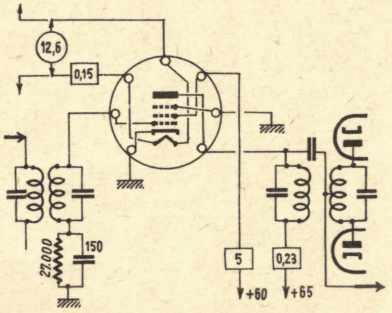
BF + D

S = 1,6
ρ = 62.000
V = −2



12BN6 (M)

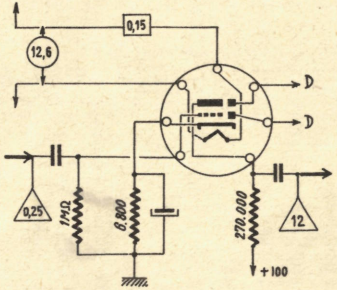
HF (FM) (LIMIT.)



12BT6 (M)

BF + D

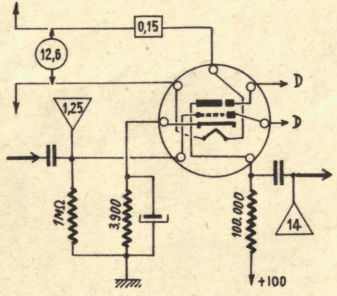
S = 1,3
ρ = 54.000
V = −1



12BU6 (M)

BF + D

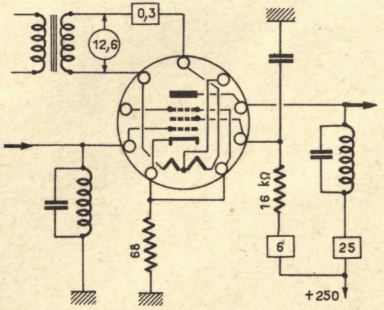
S = 1,9
ρ = 8.500
V = −9



12BY7 (N)

HF + VF (T)

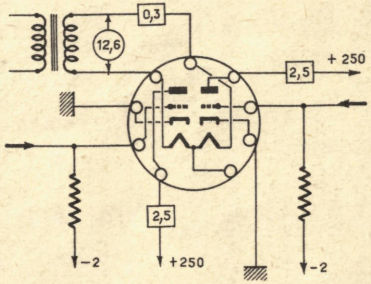
S = 12
ρ = 110 kΩ
V = −0,5



12BZ7 (N)

BF + VF (T)

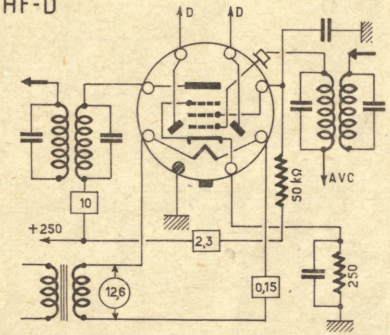
S = 3,2
ρ = 31,8 kΩ
V = −2
μ = 100



12C8 ⓪

HF-D

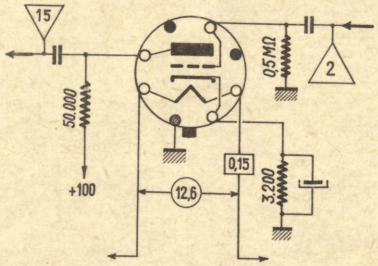
S = 1,325
ρ = 600 kΩ
V = −3 −20



12E5 (6P5) ⓪

BF

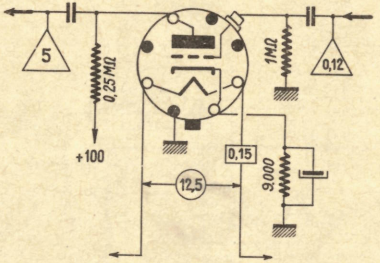
S = 1,15
ρ = 12.000
V = −5



12F5 (6F5) ⓪

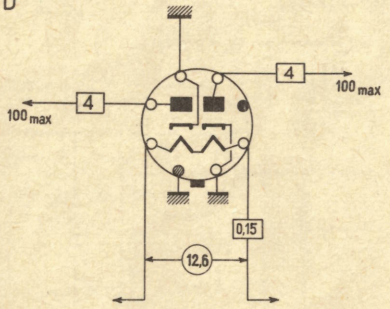
BF

S = 1,5
ρ = 60.000
V = −2



12H6 (6H 6) ⓪

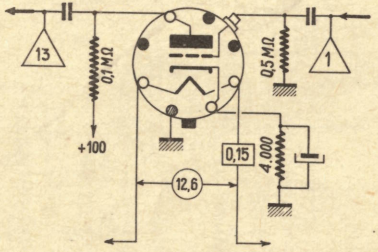
D



12J5 (6J5) ⓪

BF

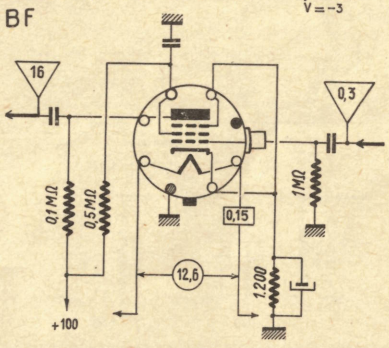
S = 3
ρ = 6.700
V = −3



12J7 (6J7) ⓪

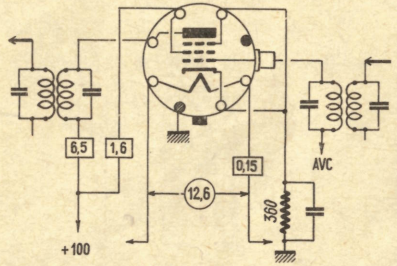
BF

S = 1,18
ρ = 1 MΩ
V = −3



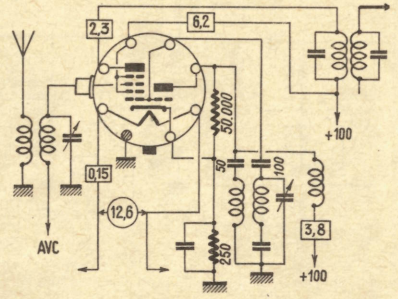
12K7 (6K7) ⓪
HF (V)

S = 1,32
ρ = 0,25 MΩ
V = −3 −38,5



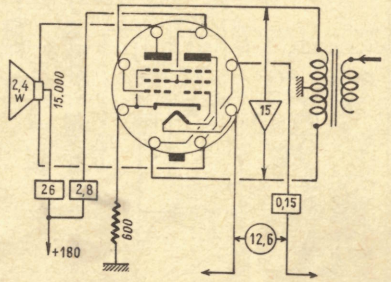
12K8 (6K8) ⓪
C (V)

Sc = 0,325
ρ = 0,4 MΩ
V = −3 −30



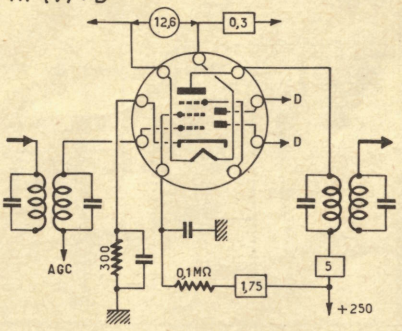
12L8 ⓪
P (Cl. AB)

V = −9



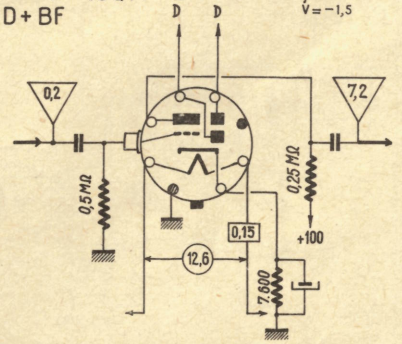
12N8 Ⓝ
HF (V) + D

S = 2,2
ρ = 1,5 MΩ
V = −2 −35



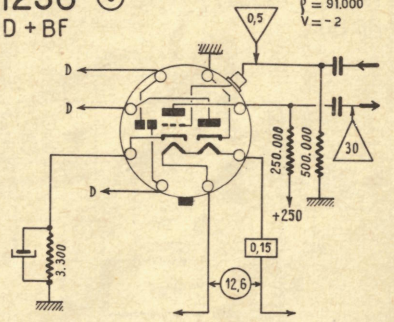
12Q7 (6Q7) ⓪
D + BF

S = 0,8
ρ = 87.500
V = −1,5



12S8 ⓪
D + BF

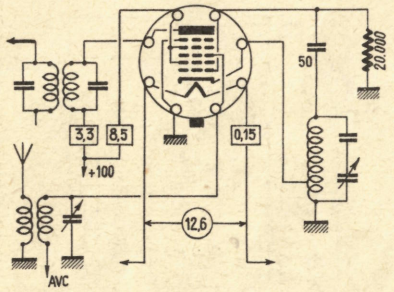
S = 1,1
ρ = 91.000
V = −2



12SA7 (6SA7) ⓪

C (V)

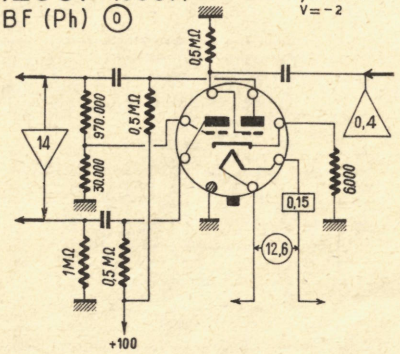
Sc = 0,425
ρ = 0,5 MΩ
V = 0,35



12SC7 (6SC7) ⓪

BF (Ph)

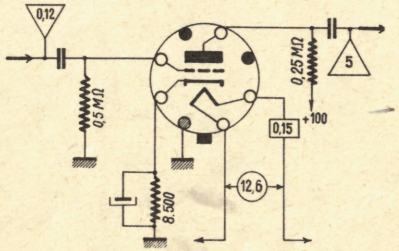
S = 1,32
ρ = 53.000
V = −2



12SF5 (6SF5) ⓪

BF

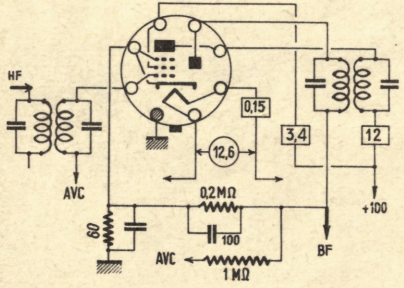
S = 1,5
ρ = 66.000
V = −2



12SF7 (6SF7) ⓪

HF (V)

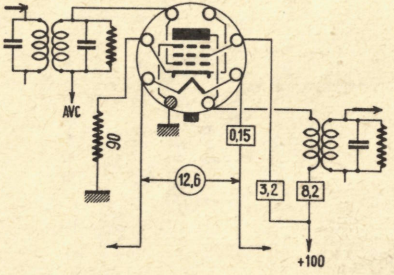
S = 1,9
ρ = 0,2 MΩ
V = −1 −3,5



12SG7 (6SG7) ⓪

HF (V) (T)

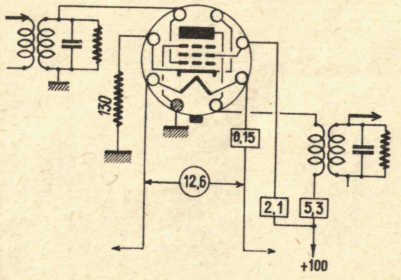
S = 4,1
ρ = 0,25 MΩ
V = −1



12SH7 ⓪

HF (T)

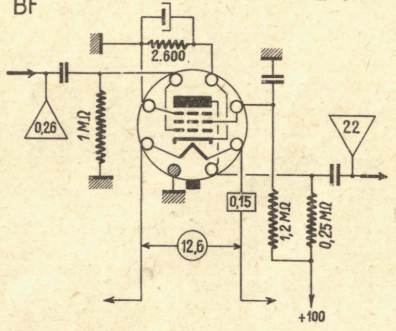
S = 4
ρ = 0,35 MΩ
V = −1



12SJ7 (6SJ7) ⓪

BF

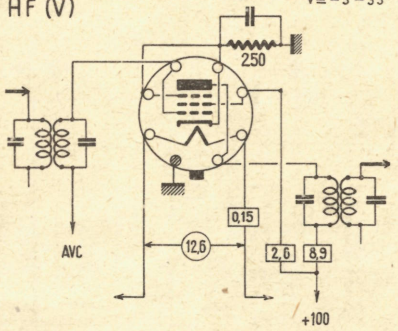
S = 1,5
ρ = 0,7 MΩ
V = −3



12SK7 (6SK7) ⓪

HF (V)

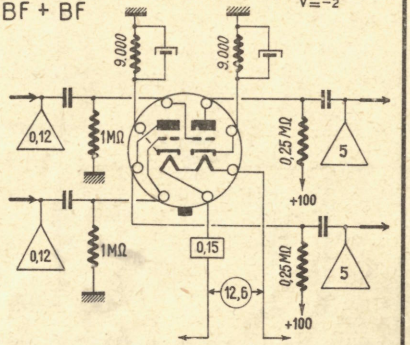
S = 1,9
ρ = 0,25 MΩ
V = −3 −35



12SL7 (6SL7) ⓪

BF + BF

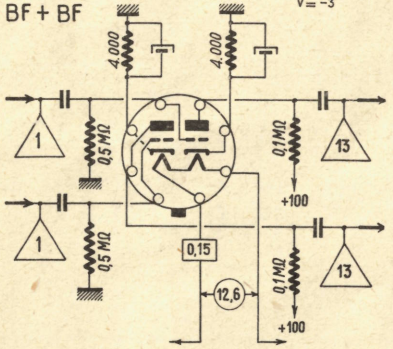
S = 1,6
ρ = 14.000
V = −2



12SN7 (6SN7) ⓪

BF + BF

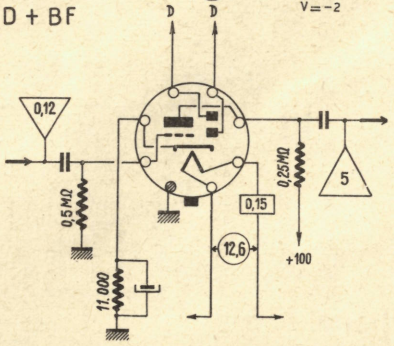
S = 3
ρ = 6.700
V = −3



12SQ7 (6SQ7) ⓪

D + BF

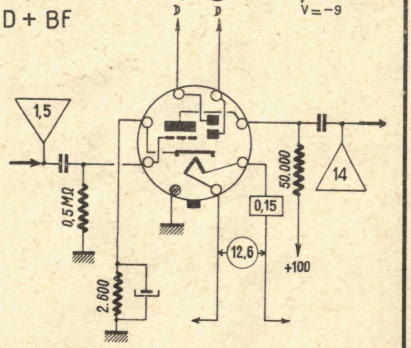
S = 1,1
ρ = 91.000
V = −2



12SR7 (6SR7) ⓪

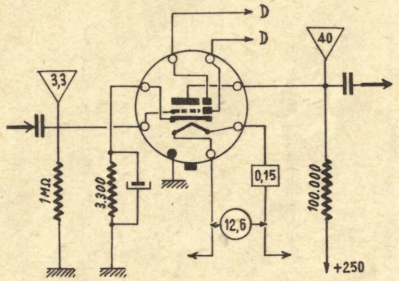
D + BF

S = 1,9
ρ = 8.500
V = −9



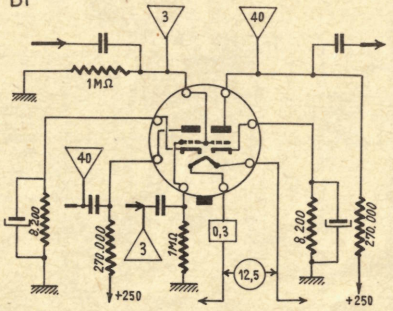
12SW7 ⓪
BF+D

S = 1,9
ρ = 8.500
V = −9



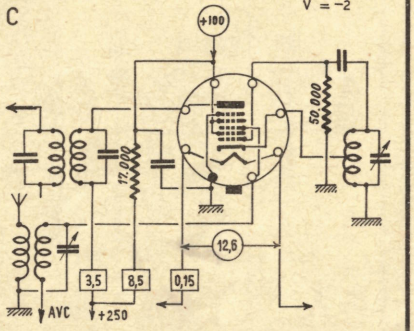
12SX7 ⓪
BF

S = 2,5
ρ = 7.700
V = −8



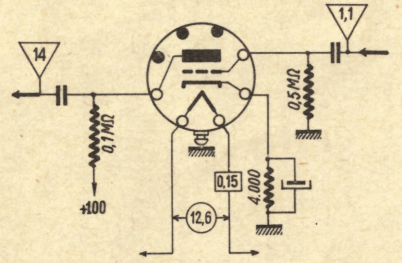
12SY7 ⓪
C

Sc = 0,45
ρ = 1MΩ
V = −2



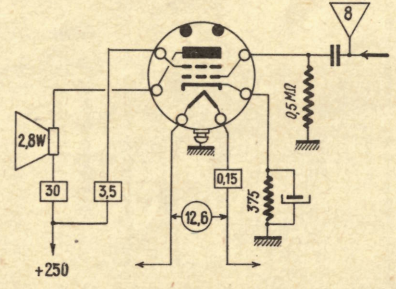
14A4 Ⓛ
BF

S = 3
ρ = 6.700
V = 0



14A5 Ⓛ
P

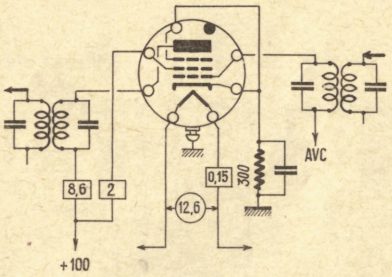
S = 3
ρ = 70.000
V = −12,5



14K7 = UCH42
14L7 = UBC41
15A6 = PL83

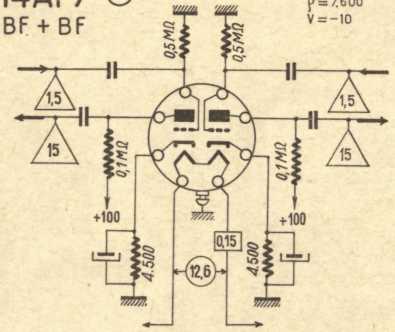
14A7 (L)
HF (V)

S = 2
ρ = 0,8
V = −3 −35



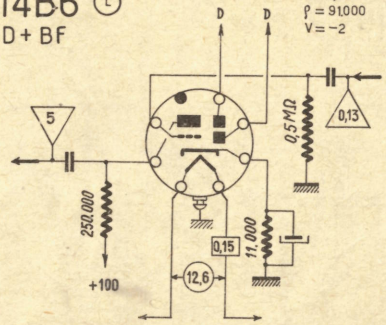
14AF7 (L)
BF + BF

S = 2,1
ρ = 7.600
V = −10



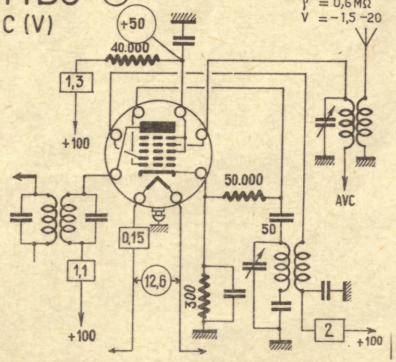
14B6 (L)
D + BF

S = 1,1
ρ = 91.000
V = −2



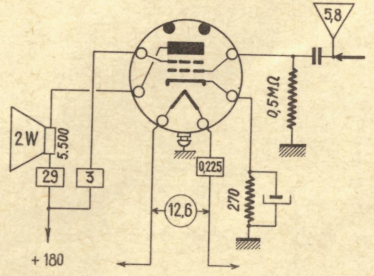
14B8 (L)
C (V)

Sc = 0,36
ρ = 0,6 MΩ
V = −1,5 −20



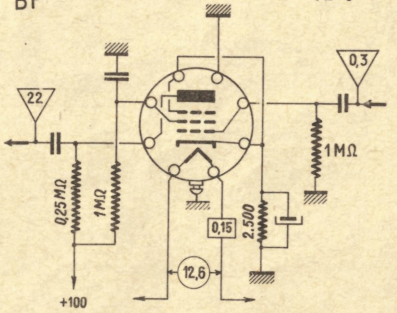
14C5 (7C5) (L)
P

S = 3,7
ρ = 58.000
V = −8,5



14C7 (7C7) (L)
BF

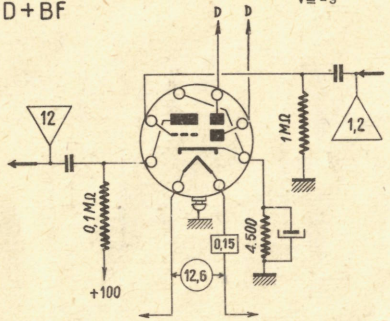
S = 2,2
ρ = 0,4 MΩ
V = −3



14E6 (7E6) L

D+BF

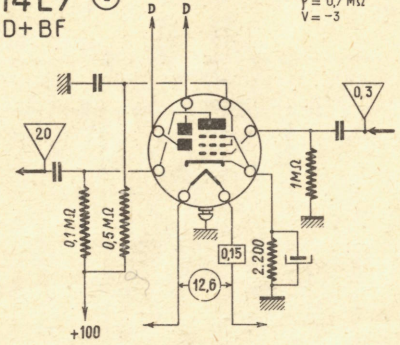
S = 1,9
ρ = 8.500
V = −9



14E7 L

D+BF

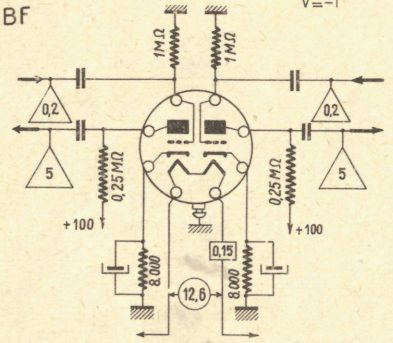
S = 1,3
ρ = 0,7 MΩ
V = −3



14F7 (7F7) L

BF

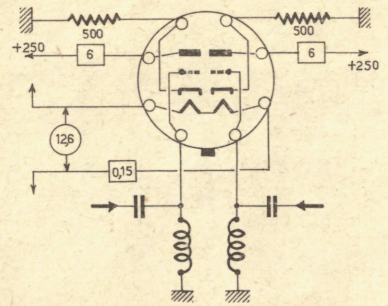
S = 1,125
ρ = 62.000
V = −1



14F8 O

HF

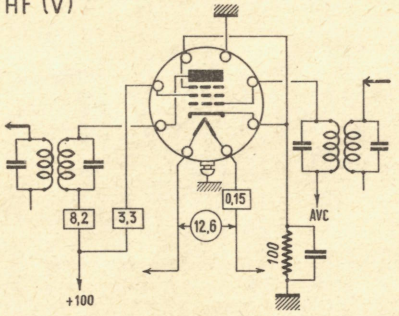
S = 3,3
μ = 48



14H7 (7H7) L

HF (V)

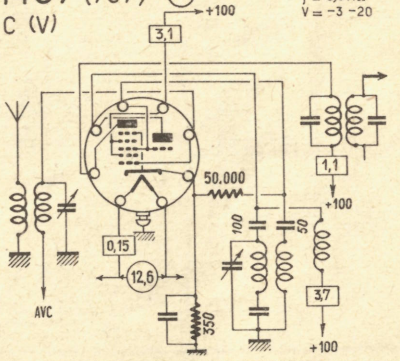
S = 3,8
ρ = 0,25 MΩ
V = −1 −12



14J7 (7J7) L

C (V)

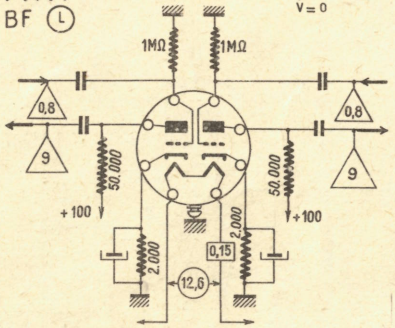
S = 0,26
ρ = 0,3 MΩ
V = −3 −20



14N7 (7N7)

BF (L)

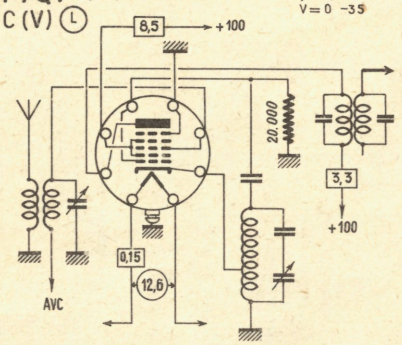
S = 3
ρ = 6.700 Ω
V = 0



14Q7 (7Q7)

C (V) (L)

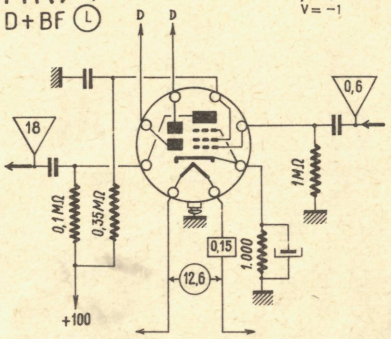
S = 0,525
ρ = 0,5 MΩ
V = 0 −35



14R7 (7R7)

D+BF (L)

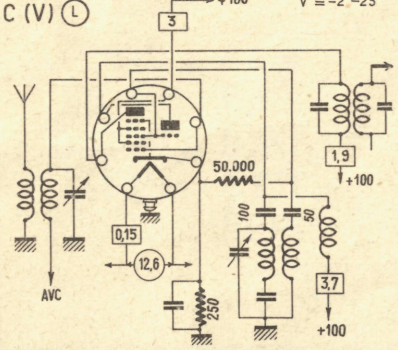
S = 3
ρ = 0,35 MΩ
V = −1



14S7 (7S7)

C (V) (L)

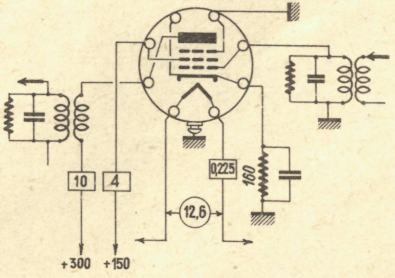
Sc = 0,5
ρ = 0,5 MΩ
V = −2 −25



14W7 (7W7) (L)

HF (T)

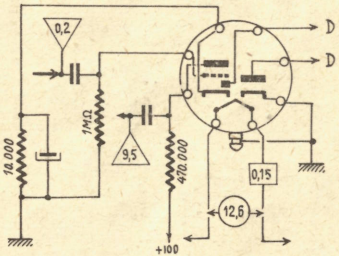
S = 5,8
ρ = 0,3 MΩ
V = −2,2



14X7 (L)

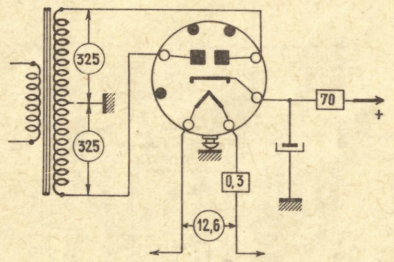
D+BF

S = 1,5
ρ = 85.000
V = −1



14Y4 (L)

R

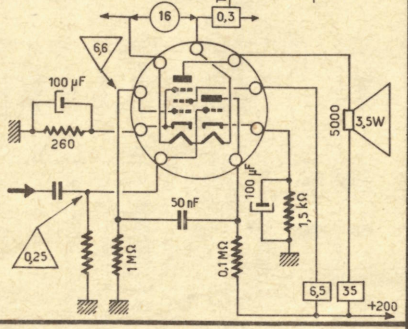


16CN8 (N)

BF (T)

TRIODE S = 4,9 ρ = 12 kΩ V = −2 F = 60

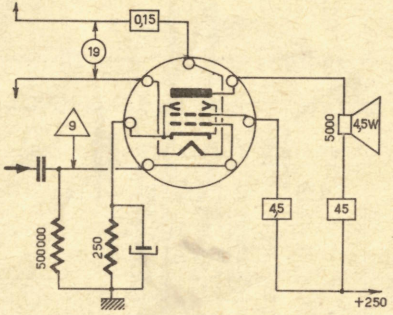
PENTHODE S = 6,4 ρ = — V = −1,6



19AQ5 (M)

P

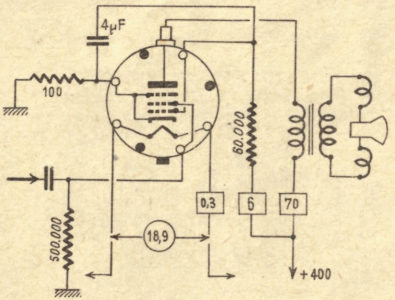
S = 4,1
ρ = 52.000
V = −12,5



19BG6 (O)

P(T)

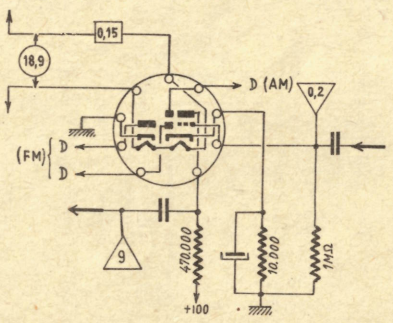
S = 6
V = −50 (max)



19C8 (AM/FM) (N)

D + BF

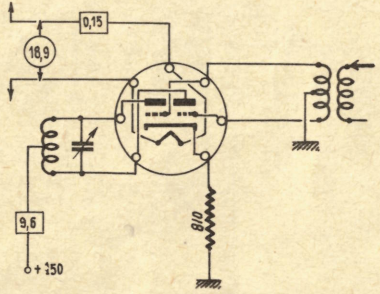
S = 1,25
ρ = 80.000
V = −1



16A5 = PL82
16A8 = PCL82
17C8 = UBF80
17Z3 = PY81
19D8 = UCH81

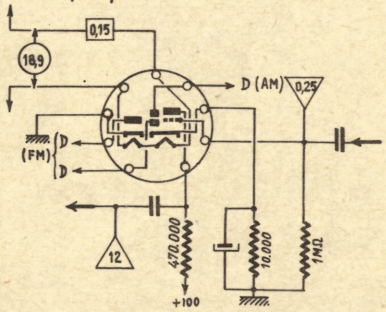
19J6 (M)
HF (T)

S = 1,9
ρ = 10.200
V = −8



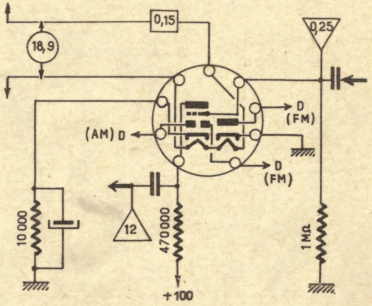
19T8 (N)
BF + D (AM/FM)

S = 1,3
ρ = 54.000
V = −1

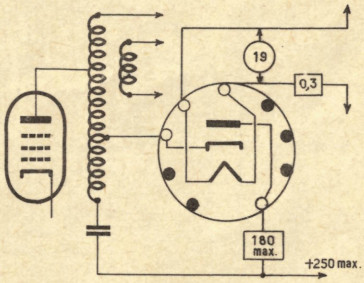


19V8 (N)
BF + D (AM/FM)

S = 1,3
ρ = 54.000
V = −1

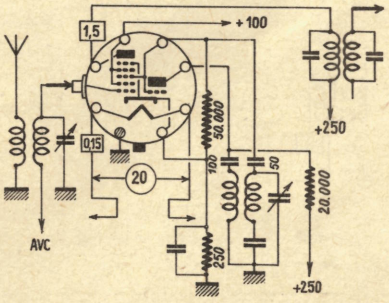


19X3 / PY80 (N)
R (T)



20J8 (O)
C (V)

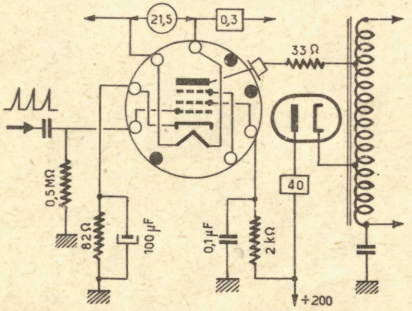
Sc = 0,27
ρ = 2 MΩ
V = −3 −25



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

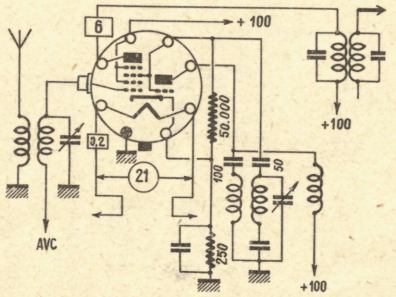
21B6 (N)
P (T)

S = 6
ρ = 11 MΩ
V = −28



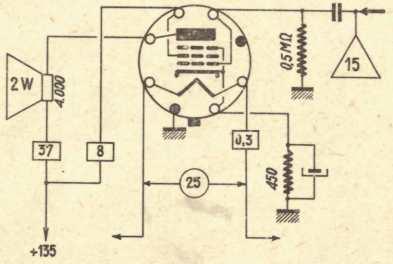
21TH8 (6TH8) (O)
C(V)

Sc = 0,27
ρ = 2 MΩ
V = −3 −28



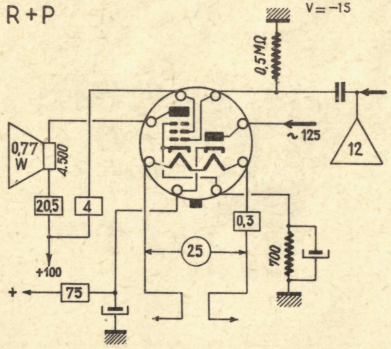
25A6 (O)
P

S = 2,4
ρ = 35.000
V = −20



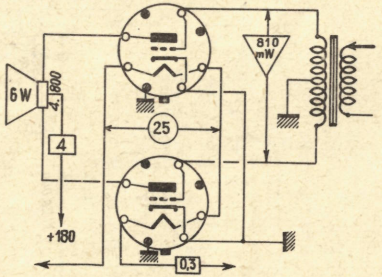
25A7 (O)
R+P

S = 1,8
ρ = 50.000
V = −15



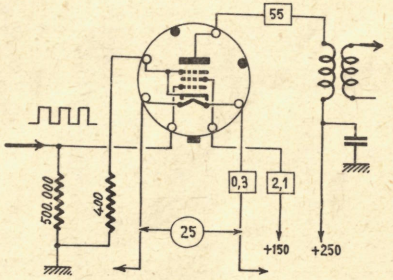
25AC5 (O)
P(Cl. B)

S = 3,8
ρ = 15.200 Ω



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

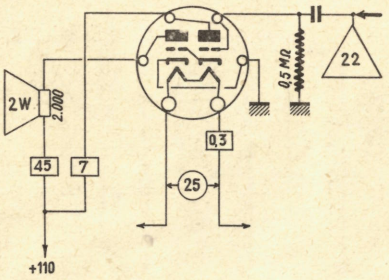
S = 5,8
V = −22,5



25B5 (US)

P

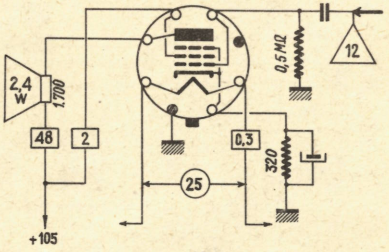
S = 2,2
ρ = 11.500
V = 0



25B6 (O)

P

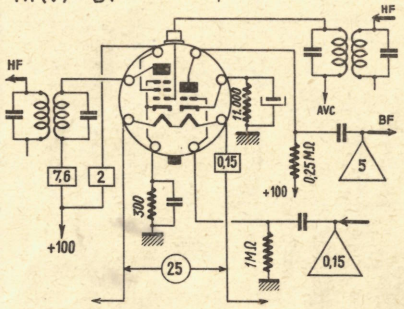
S = 4,8
ρ = 15.500
V = −16



25B8 (O)

HF(V) +BF

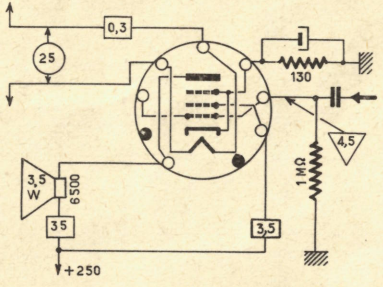
PENTHODE: S = ; ρ = 0,185 MΩ; V = −3−41
TRIODE: S = 1,5; ρ = 75.000Ω; V = −1



25BK5 (N)

P

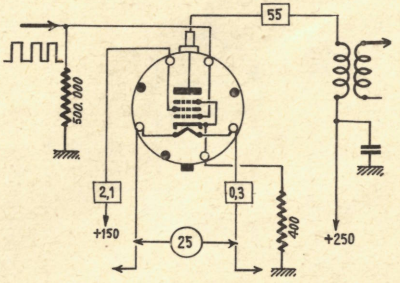
S = 8,5
ρ = 100 kΩ
V = −5



25BQ6 (6BQ6) (O)

P(T)

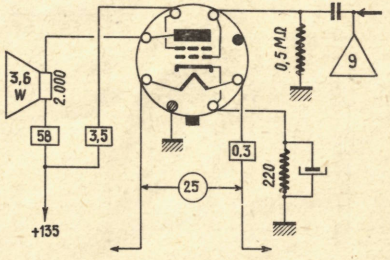
S = 5,5
V = −22,5



25C6 (O)

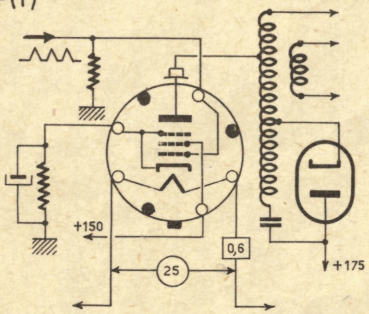
P

S = 7
ρ = 9.300
V = −13,5



25CD6 ⓪

P(T)

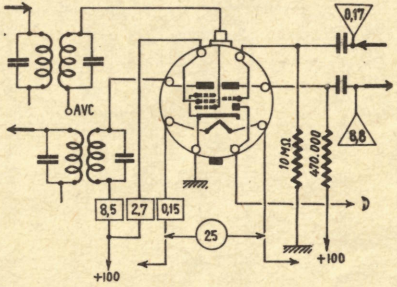


25D8 ⓪

HF + BF +D

PENTHODE $S = 1{,}9$ $\rho = 200\,k\Omega$ $V = -3$

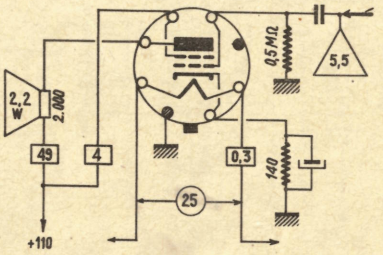
TRIODE $S = 1{,}1$ $\rho = 91\,k\Omega$ $V = -1$



25L6 ⓪

P

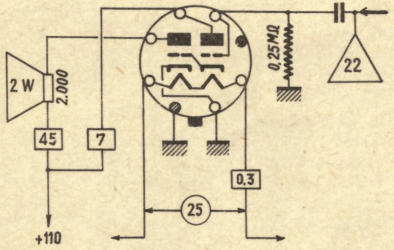
$S = 8{,}2$ $\rho = 10000$ $V = -7{,}5$



25N6 (25B5) ⓪

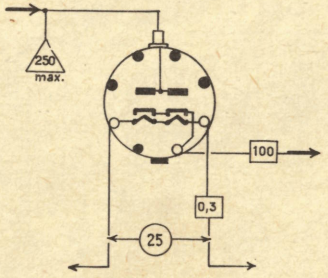
P

$S = 2{,}2$ $\rho = 11500$ $V = 0$



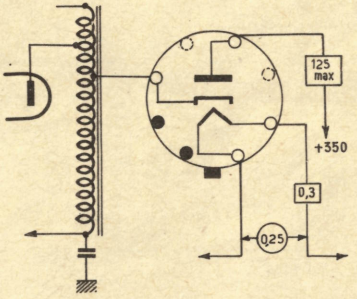
25T3G ⓪

R (T)

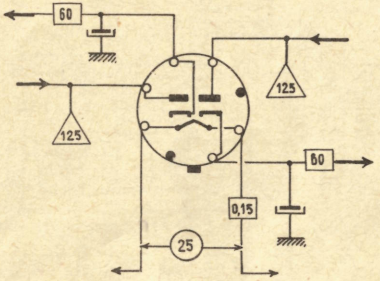


25W4 ⓪

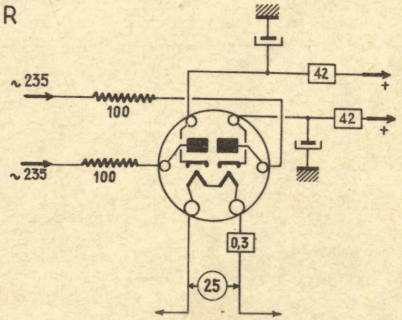
R (T)



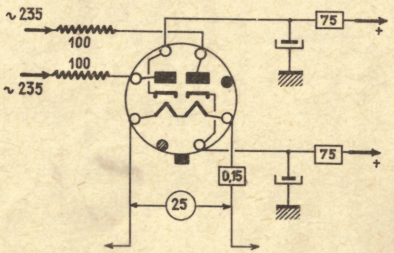
25X6 ⓪
R



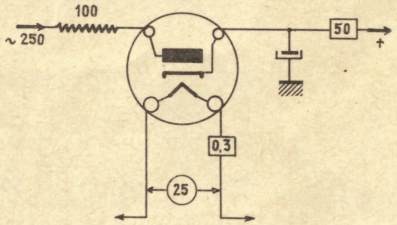
25Y5 US
R



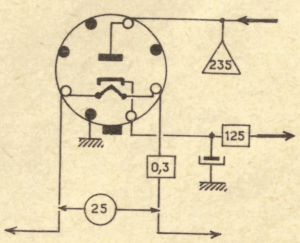
25Y6 ⓪
R



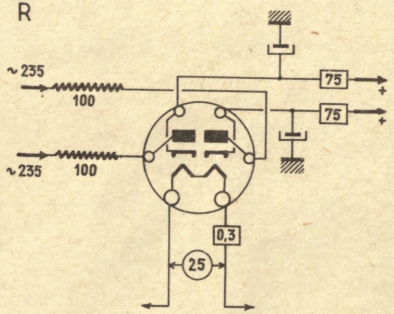
25Z3 US
R



25Z4 ⓪
R

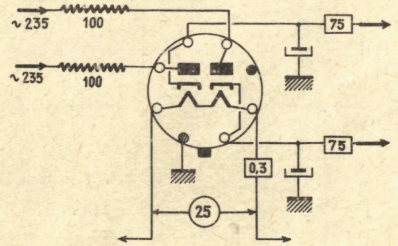


25Z5 US
R



25Z6 ⓪

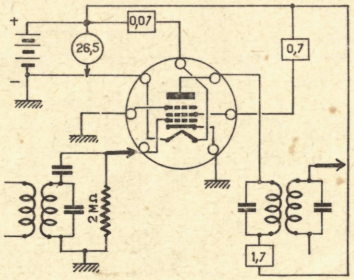
R



26A6 Ⓜ

HF

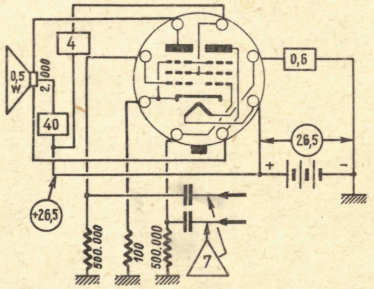
S = 4
ρ = 1 MΩ
V = −2



26A7 (28D7) ⓪

P(Cl. A2)

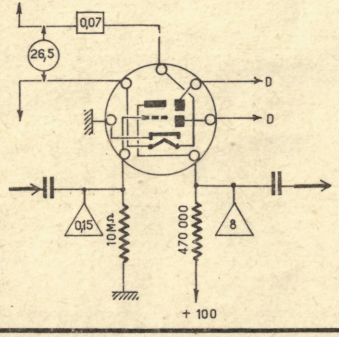
S = 5
V = −4,5



26BK6 Ⓜ

BF + D

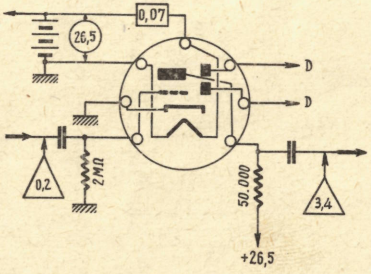
S = 1,25
ρ = 80.000
V = −1



26C6 Ⓜ

D + BF

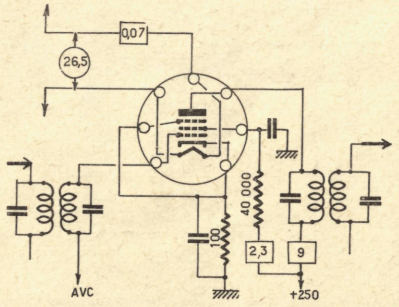
S = 11
ρ = 15.500
V = 0



26CG6 Ⓜ

HF (V)

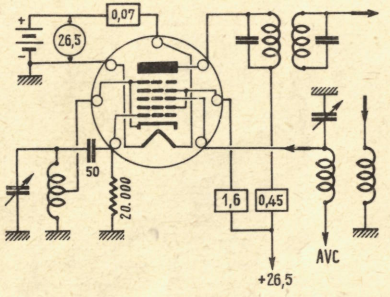
S = 2
ρ = 720.000
V = −1 −8



26D6 (M)

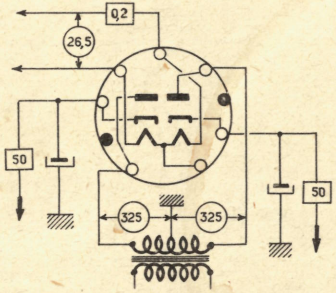
C (V)

Sc = 0,27
ρ = 1 MΩ
V = 0–30



26Z5 (N)

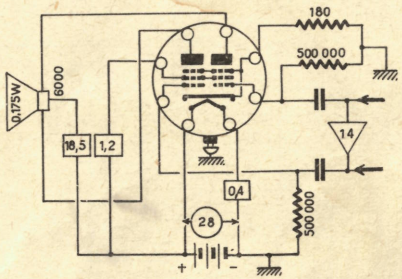
R



28D7 (L)

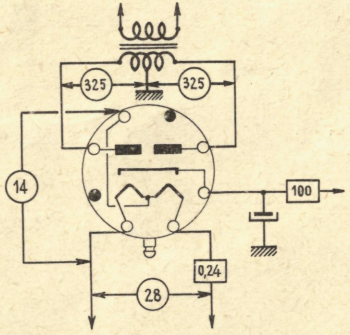
P (Cl.AB)

S = 3,4
ρ = 4.200
V = −3,5



28Z5 (L)

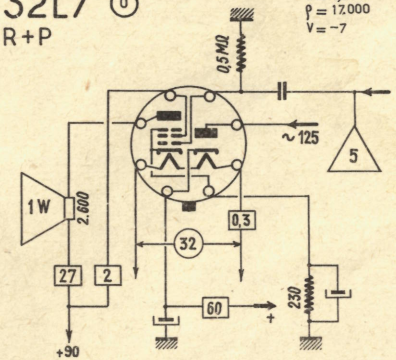
R



32L7 (O)

R+P

S = 4,8
ρ = 17.000
V = −7

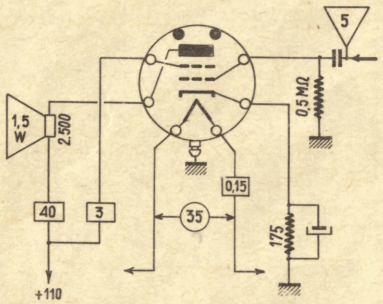


31A3 = UY41
35W4 = HY90
38A3 = UY85
45B5 = UL84
50C5 = HL92
30A5 = HL94

35A5 (35L6) Ⓛ

P

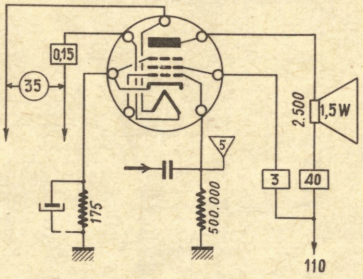
S = 5,8
ρ = 14.000
V = −7,5



35B5 Ⓜ

P

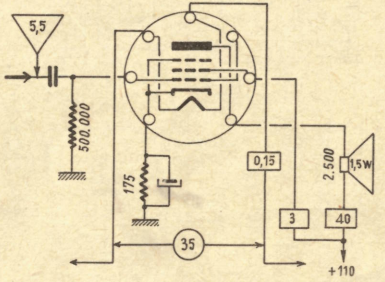
S = 5,8
ρ = 15.000
V = −7,5



35C5 Ⓜ

P

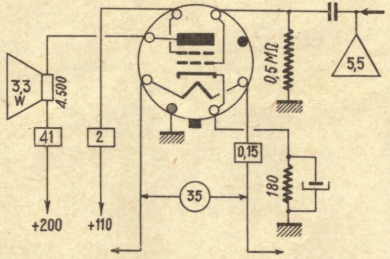
S = 5,8
ρ = 14.000
V = −7,5



35L6 (35A5) Ⓞ

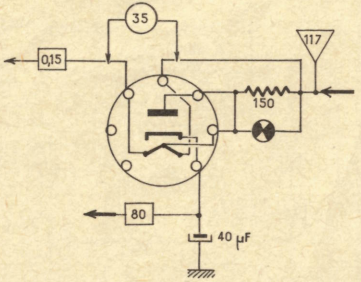
P

S = 5,8
ρ = 14.000
V = −7,5



35W4 Ⓜ

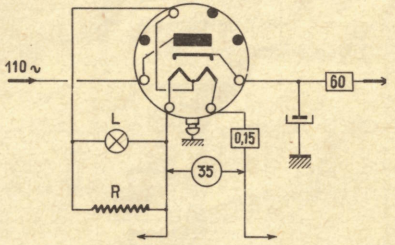
R



35Y4 (35Z5) Ⓛ

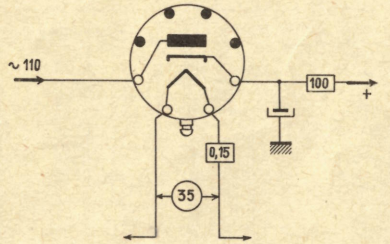
R

I = 60
R = 300 I = 70
R = 150 I = 80
R = 100 I = 90
L = 5,5V (0,1 A)



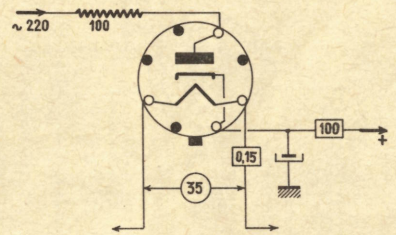
35Z3 (35Z4) Ⓛ

R



35Z4 (35Z3) Ⓞ

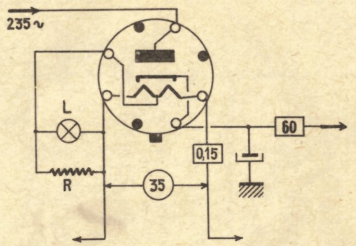
R



35Z5 (35Y4) Ⓞ

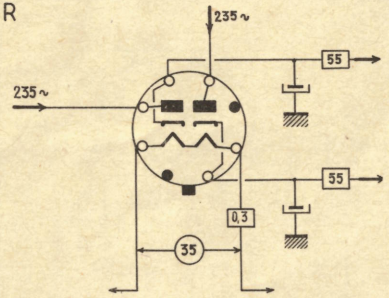
I = 60
R = 300 I = 70
R = 150 I = 80
R = 100 I = 90
L = 5,5V (0,1A)

R



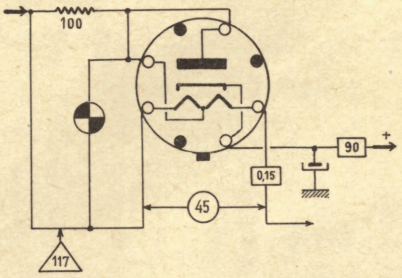
35Z6 Ⓞ

R



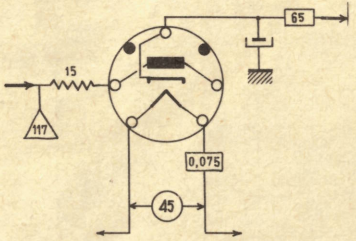
40Z5 Ⓞ

R



45Z3 Ⓜ

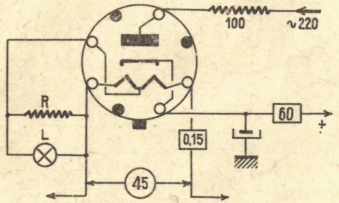
R



45Z5 (35Z5) ⓪

R

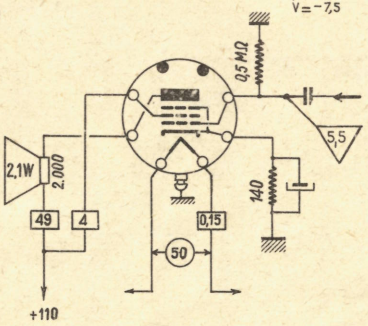
R = I = 60
R = 300 I = 70
R = 150 I = 80
R = 100 I = 90
L = 5,5V (0,1A)



50A5 Ⓛ

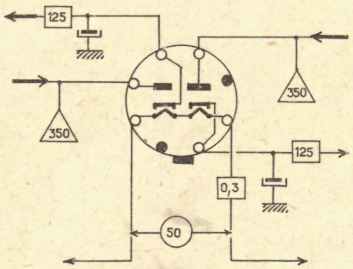
P

S = 8,2
ρ = 10.000
V = −7,5



50AX6 ⓪

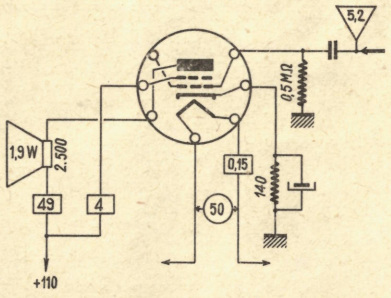
R



50B5 Ⓜ

P

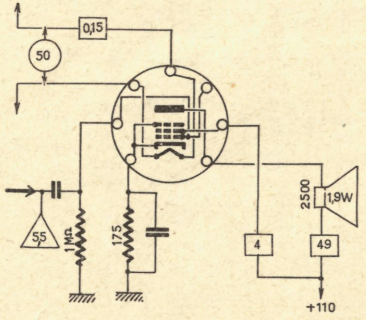
S = 7,5
ρ = 14.000
V = −7,5



50C5 Ⓜ

P

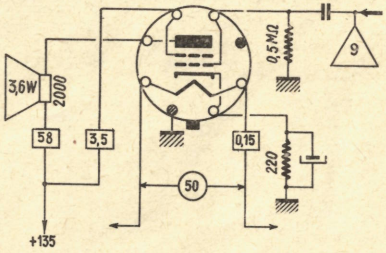
S = 7,5
ρ = 10.000
V = −7,5



50C6 (6Y6) ⓪

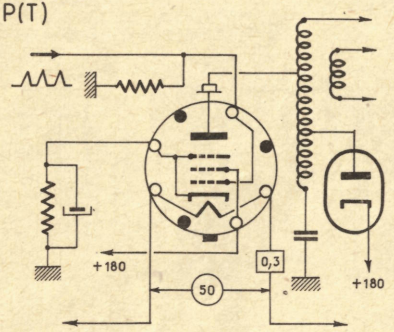
P

S = 7
ρ = 9.300
V = −13,5



50CD6 ⓪

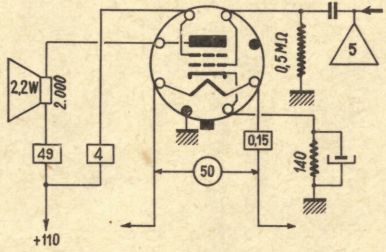
P(T)



50L6 (25L6) ⓪

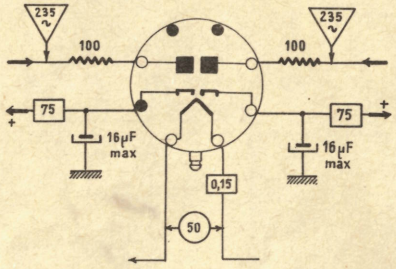
S = 8,2
ρ = 10.000
V = −7,5

P



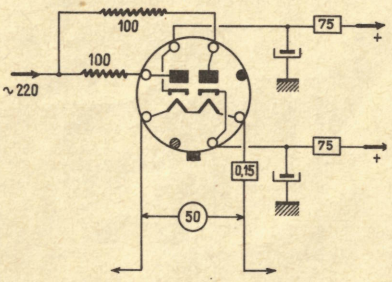
50X6 Ⓛ

R



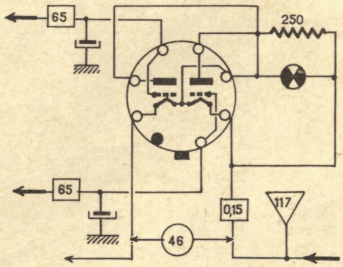
50Y6 (25Z6) ⓪

R



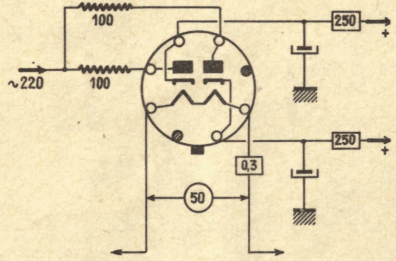
50Y7 ⓪

P



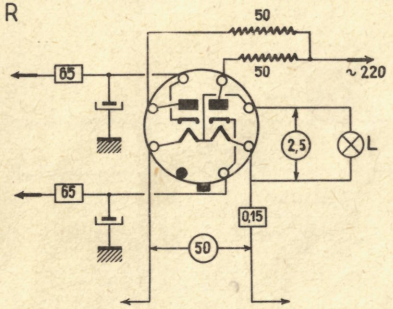
50Z6 ⓪

R



50Z7 ⓞ

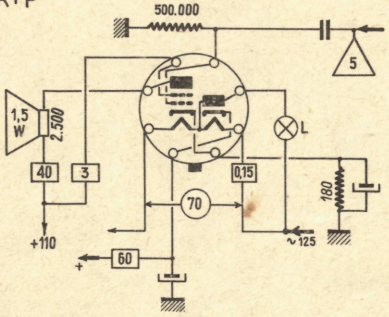
R



70A7 ⓞ

R+P

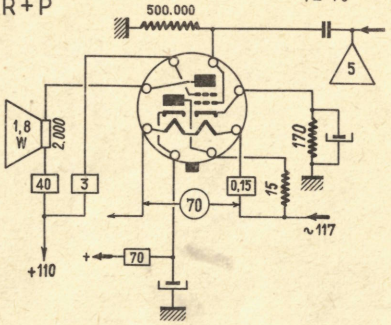
S = 5,8
ρ = 15.000
V = −7,5



70L7 ⓞ

R+P

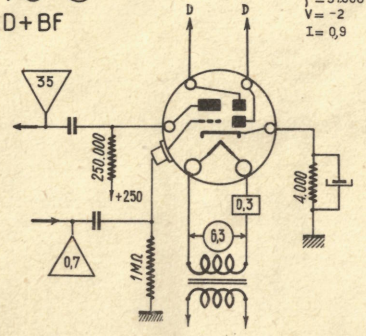
S = 7,5
ρ = 15.000
V = −7,5



75 (US)

D+BF

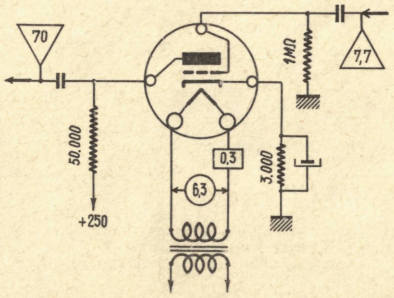
S = 1,1
ρ = 91.000
V = −2
I = 0,9



76 (56) (US)

BF

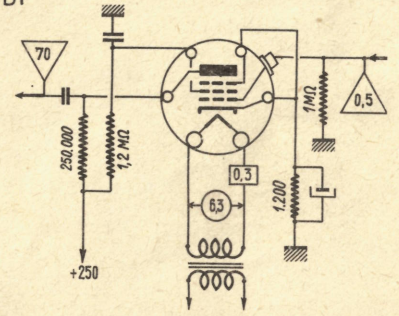
S = 1,4
ρ = 9.500
V = −13,5
I = 1,3



77 (6J7) (US)

BF

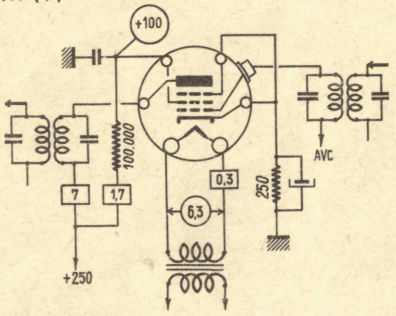
S = 1,2
ρ = 1MΩ
V = −3



78 (6K7) (US)

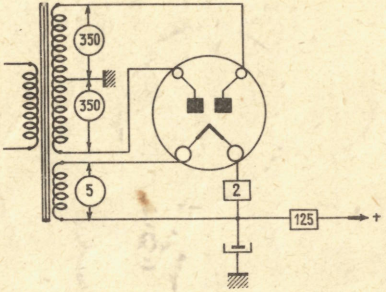
HF (V)

S = 1,45
ρ = 0,8 MΩ
V = −3 −52,5



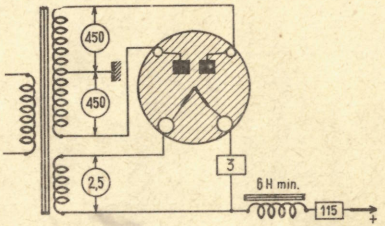
80 (5Y3) (US)

R



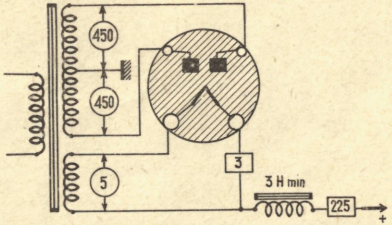
82 (US)

R



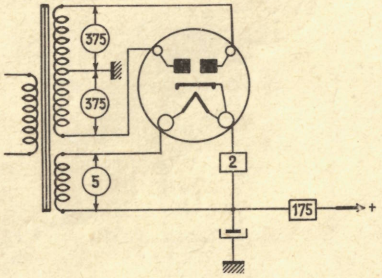
83 (US)

R



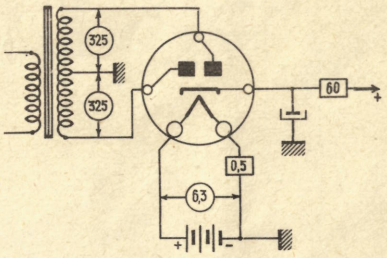
83 (5V4) (US)

R



84 (6Z4) (US)

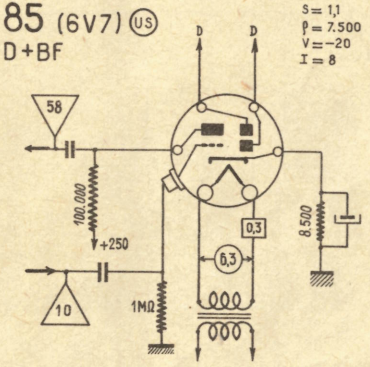
R



85 (6V7) (US)

D+BF

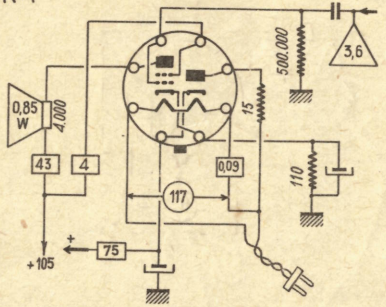
S = 1,1
ρ = 7.500
V = −20
I = 8



117L7 (117P7) (O)

R+P

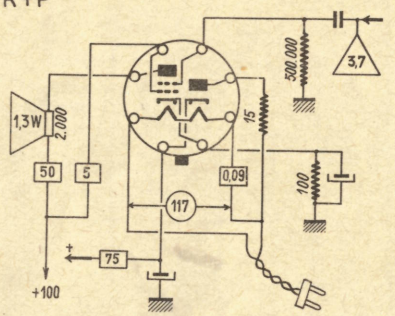
S = 5,3
ρ = 17.000
V = −5,2



117M7 (O)

R+P

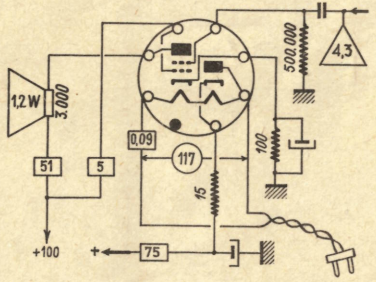
S = 7
ρ = 15.000
V = −5,5



117N7 (O)

R+P

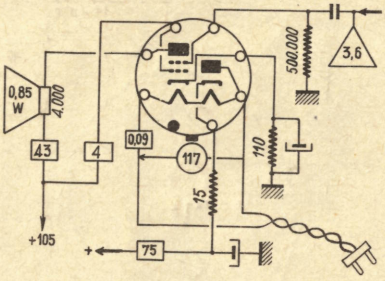
S = 7
ρ = 16.000
V = −6



117P7 (117L7) (O)

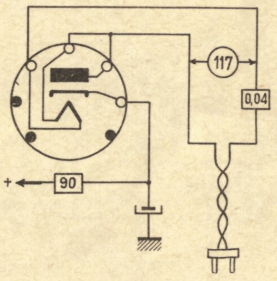
R+P

S = 5,3
ρ = 17.000
V = −5,2



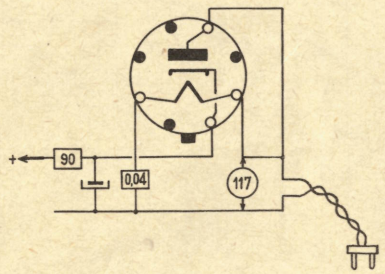
177Z3 (M)

R



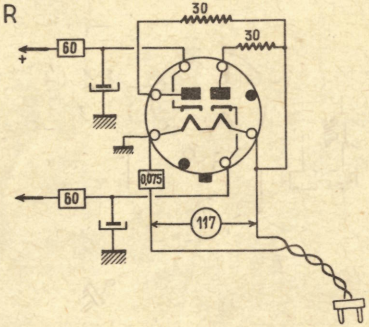
117Z4 (O)

R



117Z6 (O)

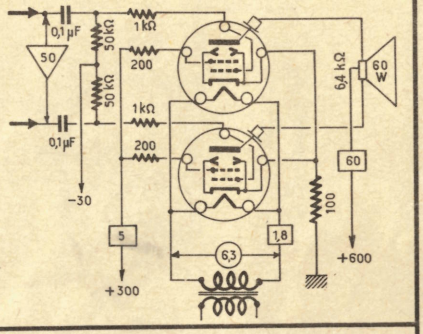
R



807 (US)

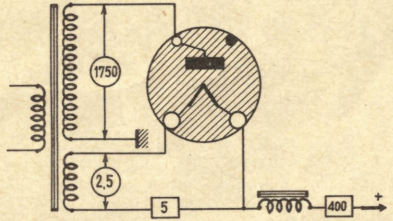
P (Cl. AB2)

S = 6
ρ = 2,5 kΩ
V = −14



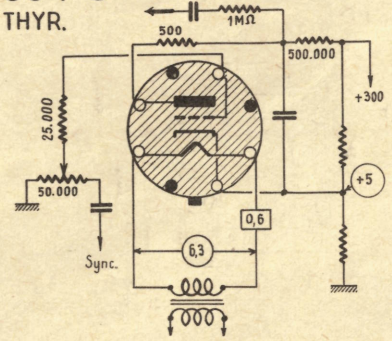
866 (US)

R



884 (O)

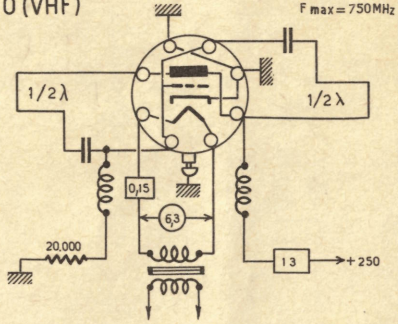
THYR.



1201 (7E5) (L)

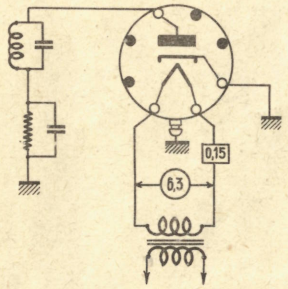
O (VHF)

S = 3
ρ = 0,12 MΩ
V = −3
F max = 750 MHz



1203 (7C4) (L)

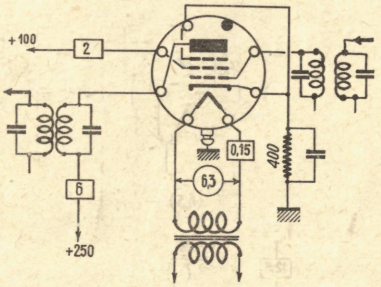
D



1232 (7G7) (L)

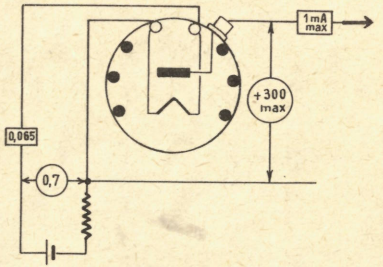
HF (T)

S = 4,5
ρ = 800.000
V = −2



1247 (SM)

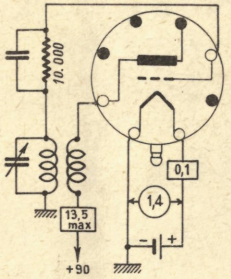
M



1293 (L)

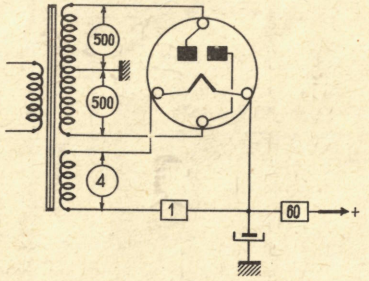
O (VHF)

S = 1,5
V = 0



1805 (E)

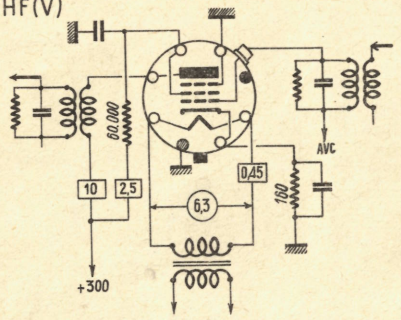
R



1275 = 5Z3
1276 = 6A3
1291 = 3B7
1299 = 3D6
1612 = 6L7
1629 = 6E5

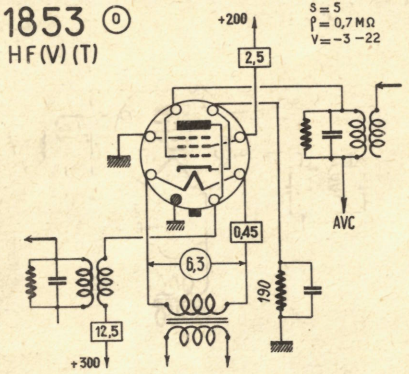
1851 ⓪
HF(V)

S = 9
ρ = 0,75 MΩ
V = −3 −22

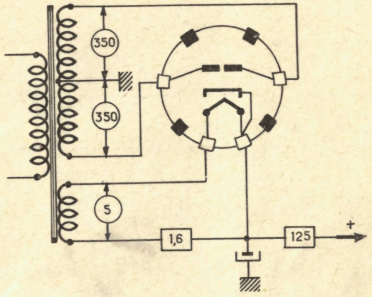


1853 ⓪
HF(V) (T)

S = 5
ρ = 0,7 MΩ
V = −3 −22

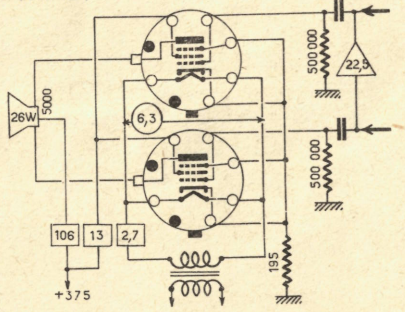


1883 Ⓣ
R



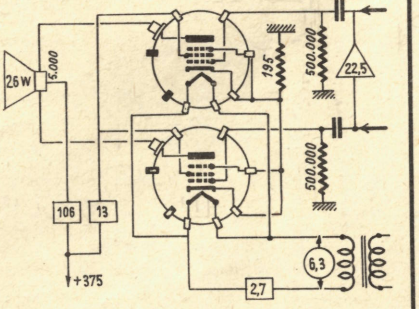
4654 K ⓪
P(Cl.AB)

S = 8,5
ρ = 22.000
V = −14,5



4654 P Ⓣ
P(Cl.AB)

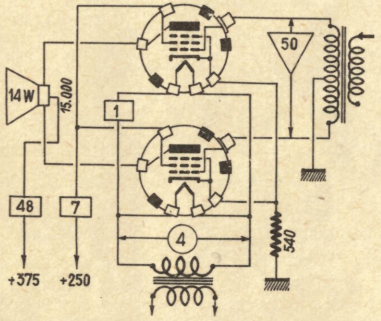
S = 8,5
ρ = 22.000
V = −14,5



1852 = 6AC7
4683 = AD1
4699 = EL6

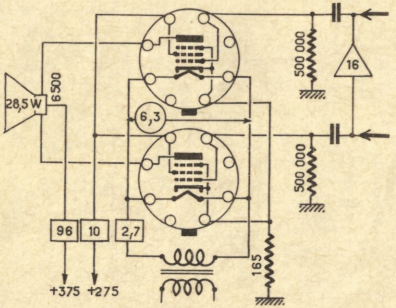
4682/AL2 (T)

P (Cl. AB)



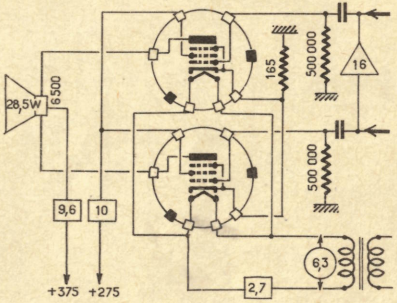
4689 K (O)

P (Cl. AB)



4689 P (T)

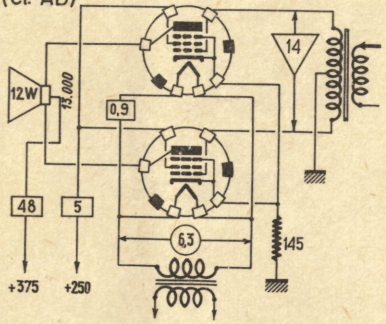
P (Cl. AB)



4694 (T)

P (Cl. AB)

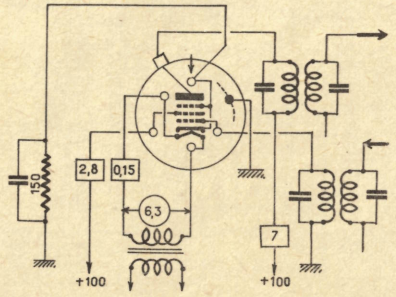
S = 8
P = 7.000
V = −7,5



5633 (SM)

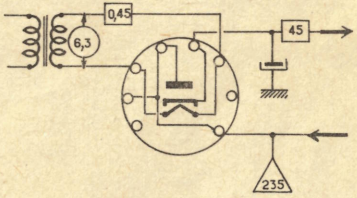
HF

S = 3,4
P = 200.000
V = −1,5

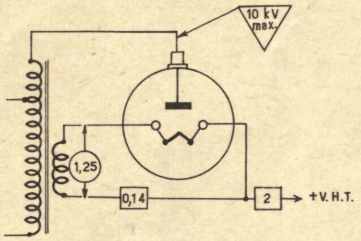


5641 (SM)

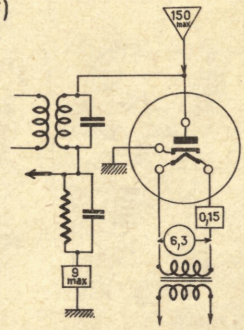
R



5642 (SM)
R(THT)

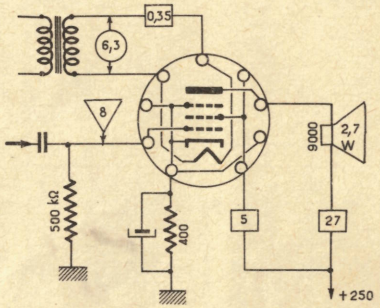


5647 (SM)
D(VHF)



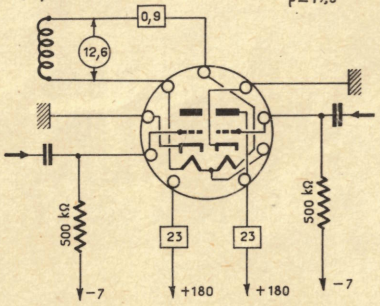
5686 (N)
P

S = 3,1
V = −12,5



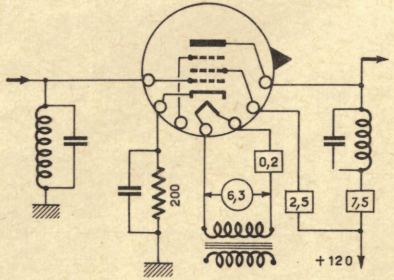
5687 (N)
VF (T)

S = 6,4
ρ = 2,7 kΩ
V = −7
μ = 17,5



5702 (SM)
HF (T)

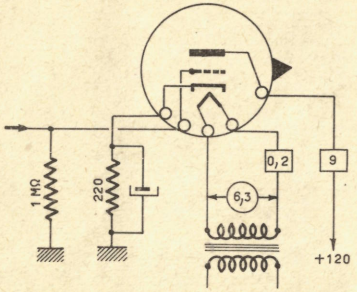
S = 5
ρ = 340 kΩ
V = −2



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

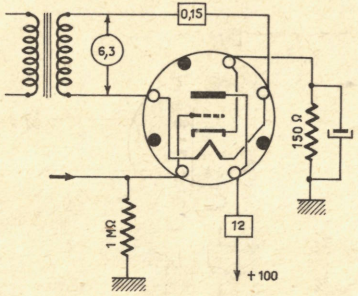
5703 (SM)
BF

S = 5
μ = 25



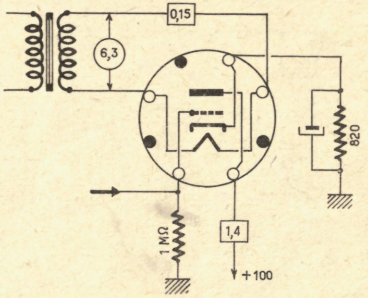
5718 (SM)
BF

S = 5,5
ρ = 3.650
V = −2
μ = 20



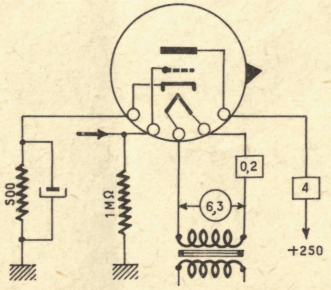
5719 (SM)
BF

S = 2,7
ρ = 26kΩ
μ = 70



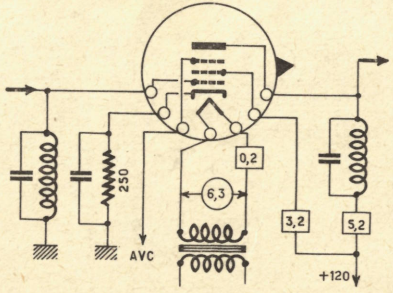
5744 (SM)
BF

S = 4
μ = 70



5784 (SM)
HF (V)

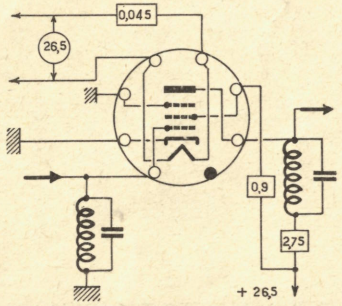
S = 3,2
Vg1 = −2
Vg3 = 0 −10



5749 = 6BA6
5750 = 6BE6
5751 = 12AX7
5814 = 12AU7

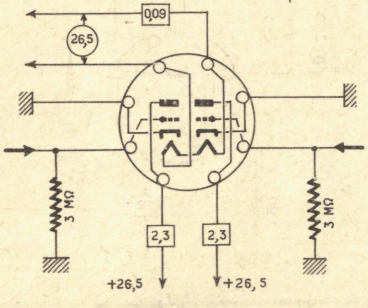
5797 (SM)
HF (T)

S = 3,45
ρ = 70 kΩ
V = 0



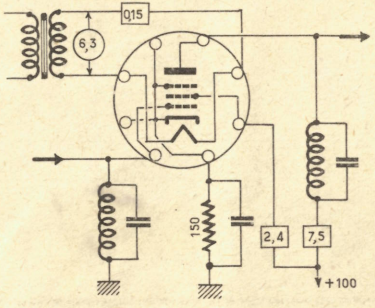
5798 (SM)
BF

S = 3,15
ρ = 6,7 kΩ
V = 0
μ = 21



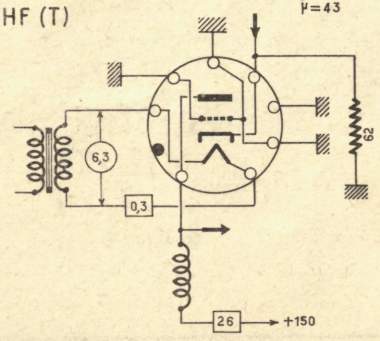
5840 (SM)
HF (T)

S = 5
ρ = 230 kΩ



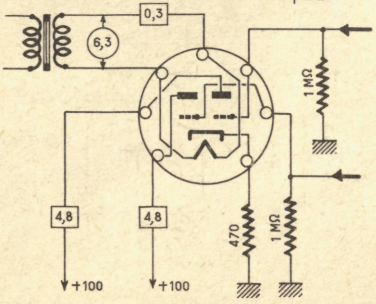
5842 (N)
HF (T)

S = 24
ρ = 1,8 kΩ
μ = 43



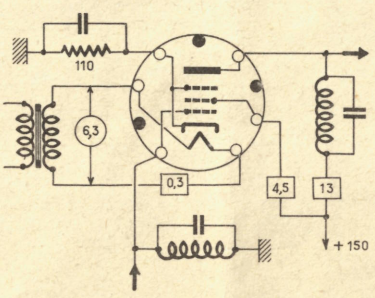
5844 (M)
BF

S = 3,4
ρ = 7,950
V = −4,5
μ = 27



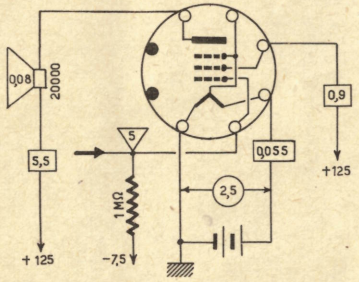
5847 (N)
HF (T)

S = 12,5



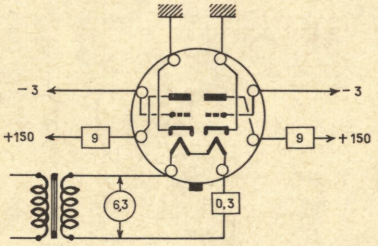
5851 (SM)
P

S = 1,6
ρ = 175 kΩ
V = −7,5



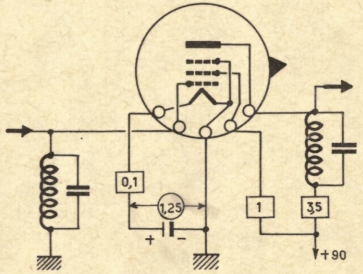
5873 (SM)
BF

S = 2,9
V = −3
μ = 22

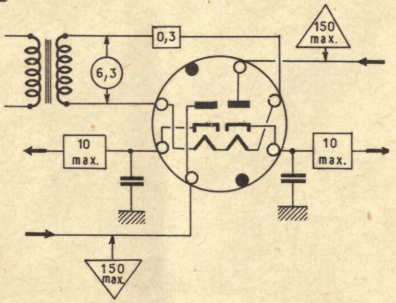


5875 (SM)
HF

S = 2,5
V = 0

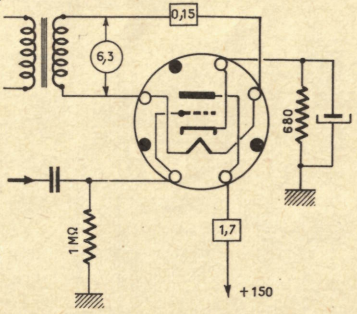


5896 (6H6) (SM)
D



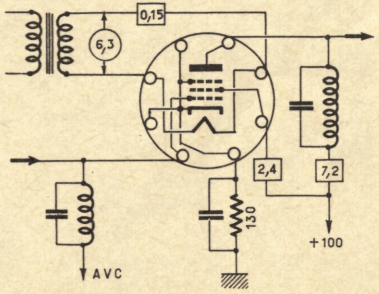
5898 (SM)
BF

S = 2,7
μ = 70



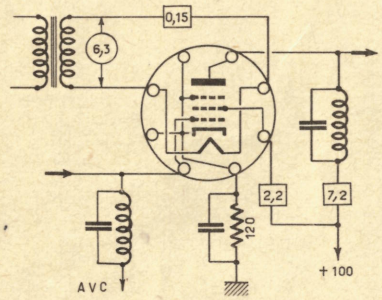
5899 (SM)
HF (V) (T)

S = 4,5
ρ = 260 kΩ
V = −1,5 −20



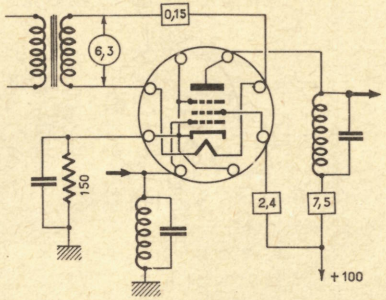
5900 (SM)
HF(V) (T)

S = 4,5
ρ = 260 kΩ
V = −1,5 −10



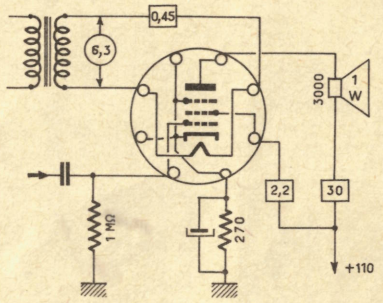
5901 (SM)
HF (T)

S = 5
ρ = 230 kΩ
V = −1,5

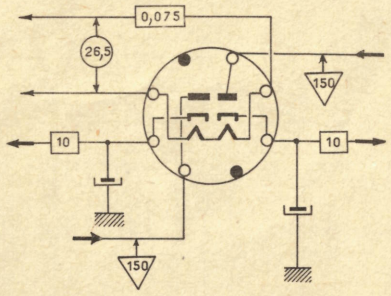


5902 (SM)
P

S = 4,2
ρ = 15 kΩ
V = −12,5

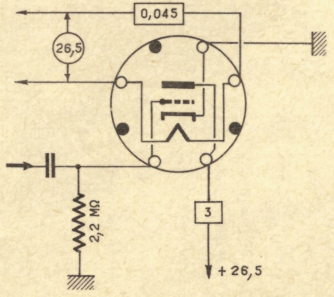


5903 (SM)
R



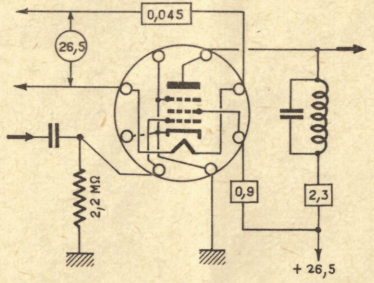
5904 (SM)
BF

S = 5
V = 0
μ = 19



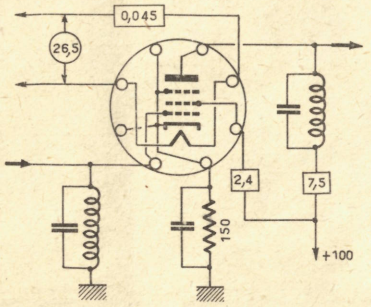
5905 (SM)
HF

S = 2,85
ρ = 110 kΩ
V = 0



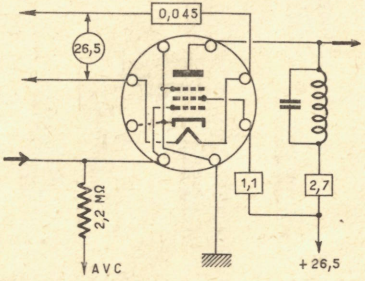
5906 (SM)
HF

S = 5
ρ = 230 kΩ
V = −1,5



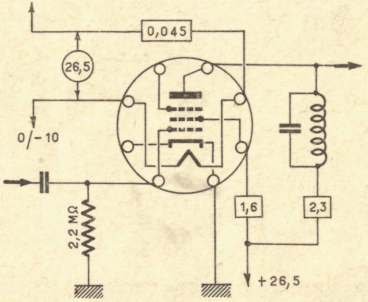
5907 (SM)
HF (V)

S = 3
ρ = 125 kΩ
V = 0 −10



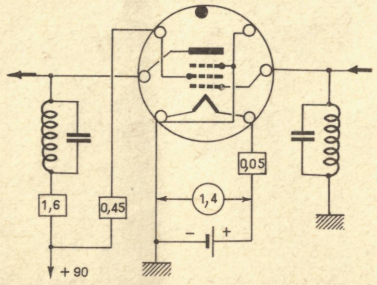
5908 (SM)
HF (V)

S = 1,75
ρ = 30 kΩ
V = 0

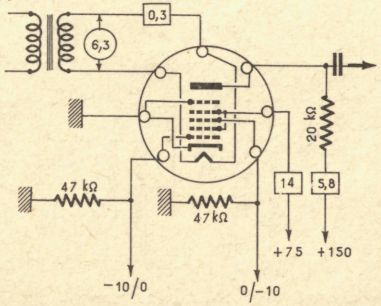


5910 (M)
HF

S = 0,9
ρ = 1,5 kΩ
V = 0

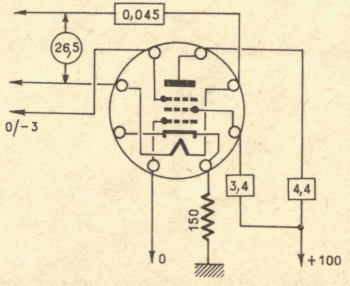


5915 (M)
HF



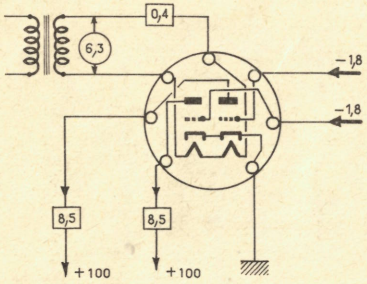
5916 (SM)
HF

S = 3
ρ = 130 kΩ



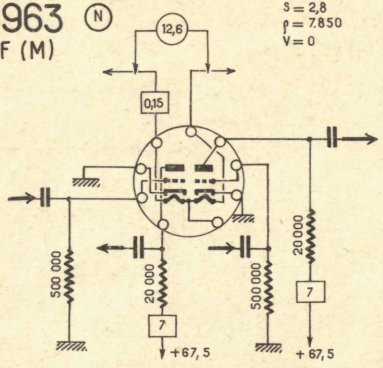
5920 (M)
VF (T)

S = 5,5
V = −1,8
μ = 25



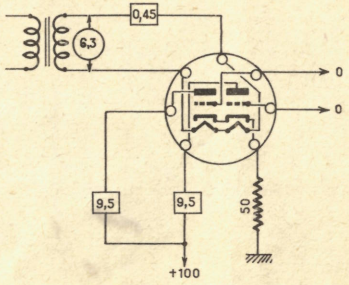
5963 (N)
BF (M)

S = 2,8
ρ = 7.850
V = 0



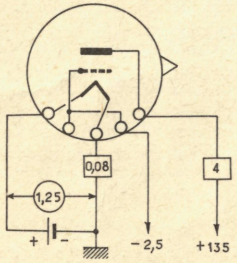
5964 (M)
HF / BF

S = 6
ρ = 6.500



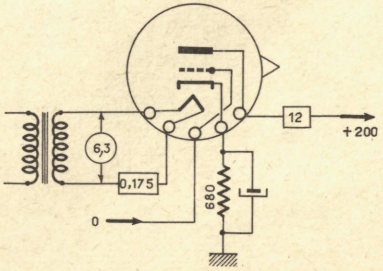
5971 (SM)
BF

S = 2,15
V = −2,5
μ = 23



5975 (SM)
BF (T)

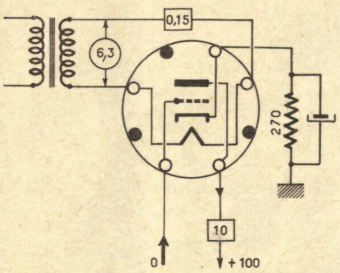
S = 4
ρ = 4 kΩ
μ = 16



5930 = 2A3
5931 = 5U4
5932 = 6L6
5961 = 6SA7

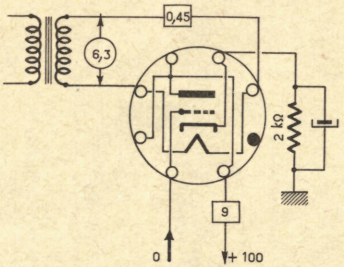
5977 (SM)
BF (T)

S = 4,5
μ = 16

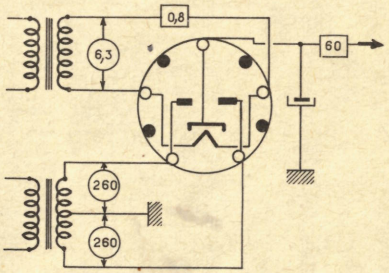


5987 (SM)
BF

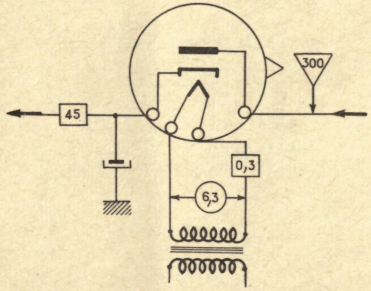
S = 1,8
V = −18
μ = 4,1



5993 (N)
R

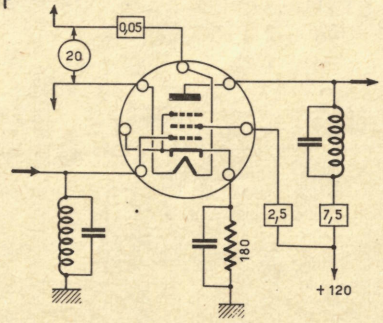


5995 (SM)
R



6028 (M)
HF

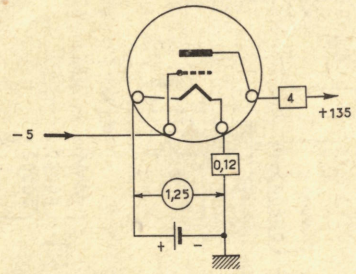
S = 5
= 300 kΩ
V = −1,8



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

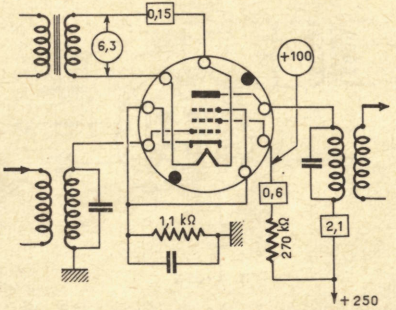
6050 (SM)
HF

S = 1,8
V = −5
μ = 16



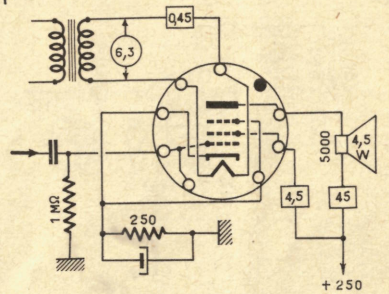
6059 (N)
HF

S = 1,25
ρ = 2,5 MΩ
V = −3



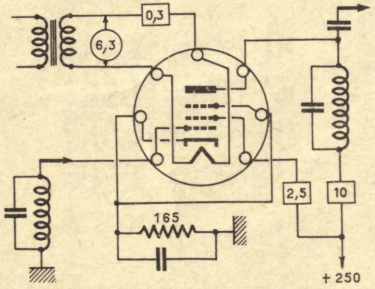
6061 (N)
P

S = 4,1
ρ = 52 kΩ
V = −12,5



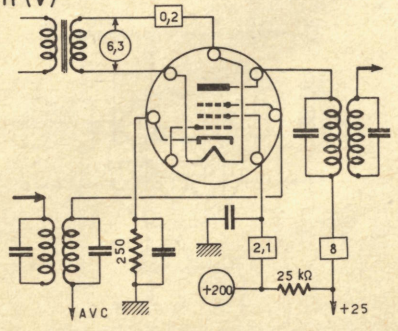
6064 (M)
HF(T)

S = 7,5
ρ = 1 MΩ
V = −2



6065 (M)
HF(V)

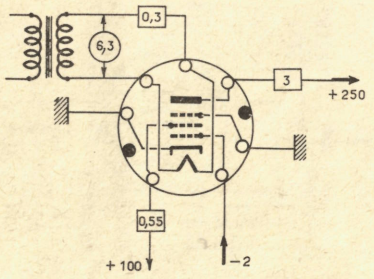
S = 2,5
ρ = 1 MΩ
V = −2,5 −35



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

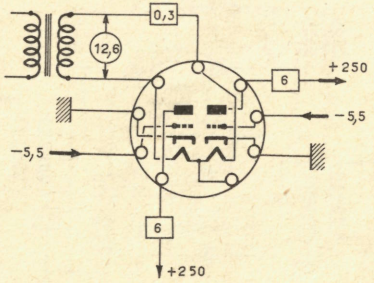
6084 (N)
BF

S = 1,85
ρ = 1,8 MΩ
V = −2



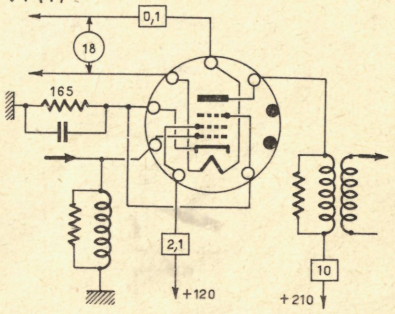
6085 (N)
BF

S = 2,7
V = −5,5
μ = 30



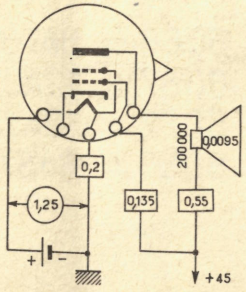
6086 (N)
VF(T)

S = 9
ρ = 500 kΩ
V = −1,5



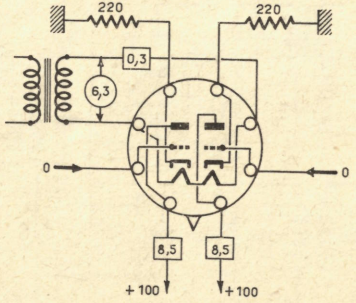
6088 (SM)
P

S = 0,55
ρ = 850 kΩ
V = −1,25



6111 (SM)
BF

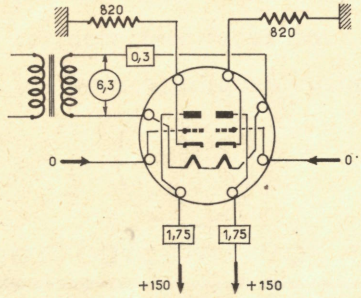
S = 5
V = −1,9
μ = 20



6080 = 6AS7
6113 = 6SL7
6137 = 6SK7
6267 = EF86

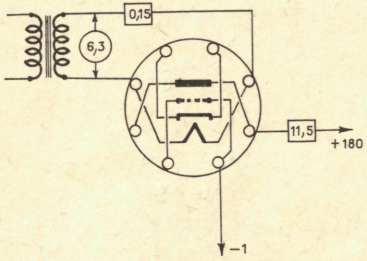
6112 (SM)
BF

S = 2,5
ρ = 40 kΩ
V = 1,25
μ = 70



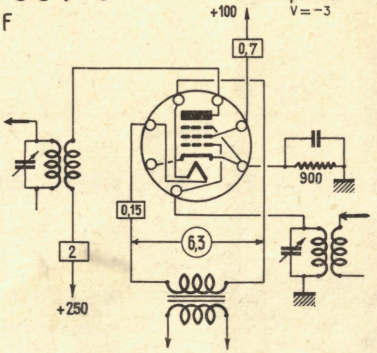
6169 (SM)
VHF

S = 6,5
ρ = 8,5 kΩ
V = −1
μ = 55



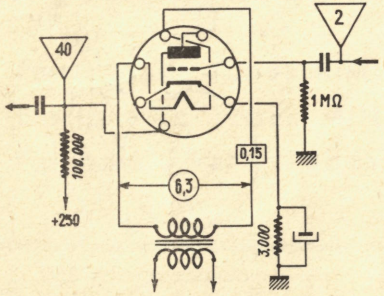
9001 (M)
HF

S = 1,4
ρ = 1 MΩ
V = −3



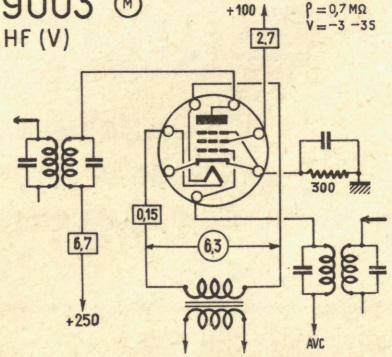
9002 (M)
BF

S = 2,2
ρ = 11.400
V = −7

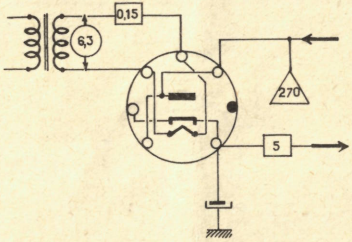


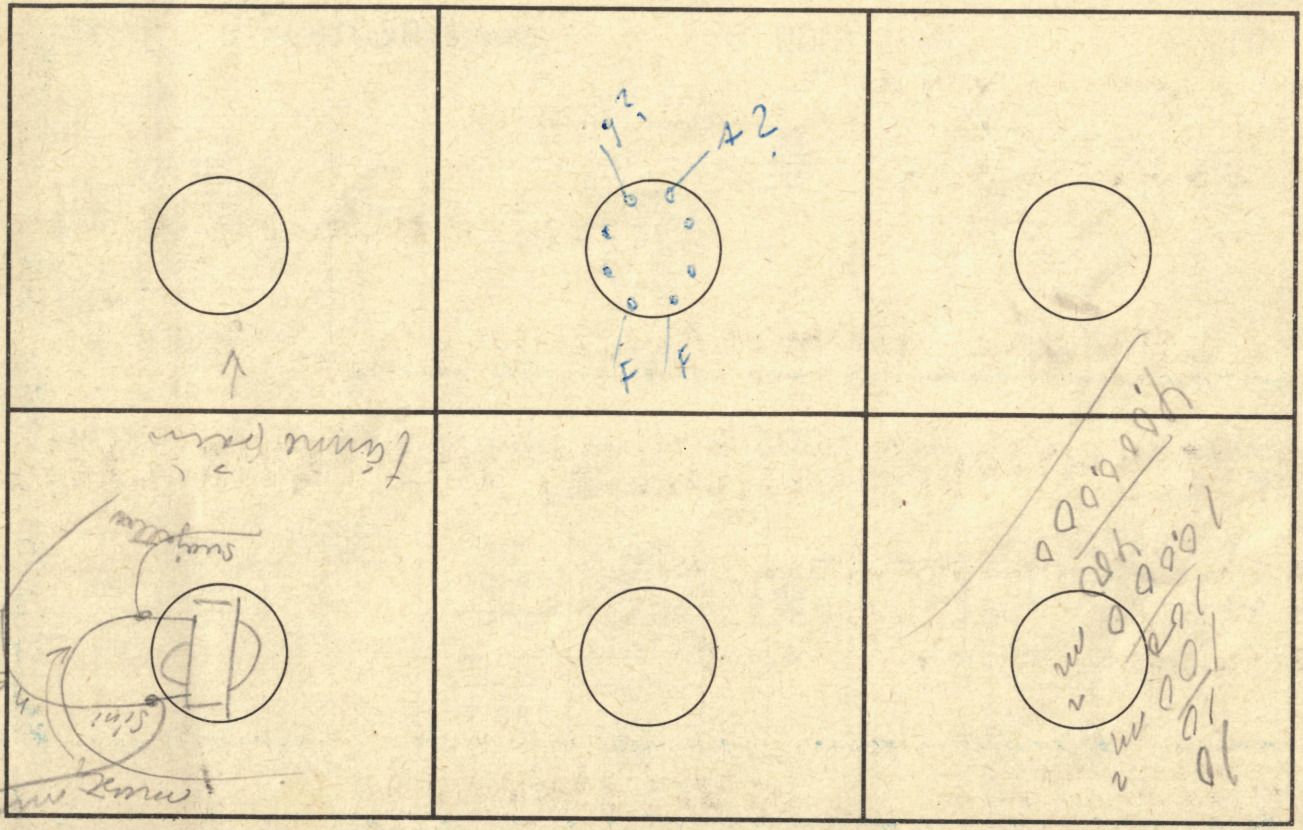
9003 (M)
HF (V)

S = 1,8
ρ = 0,7 MΩ
V = −3 −35



9006 (M)
D





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