Russian Receiver R-326

R326 – “Portable” tube military HF receiver intended for range 1.0 – 20.0 MHz. The receiver has 6 sub bands. A retuned filter is used in IF tract. R326 can be fed or by to two 1.2-V heavy- duty accumulators (anode fed through internal converter DC/DC) or by main through external PSU unit. R- 326 receives AM, CW and SSB.

R- 326s were produced from the end of 50 (from 1956??) till end of 1970. I have seen R- 326 with label “1978.” Receivers made after end of 60s have tight vernier. It can be fixed by loosing screws in the vernier.

R- 326 were used at a radio- intelligence division. Also was used like army headquarter monitoring receiver for receiving routine radiogram, weather forecast, etc. The receiver works well only with a short antennas, no more the 3 meters long. Long antenna blocks the receiver. R- 326 corresponds its military nick name- SHOROH (“Rustle” in English). Receiver has very high level of rustle even without an antenna.

(See schematic diagram on pp.: 86, 87, 88)

R- 326 with Antenna

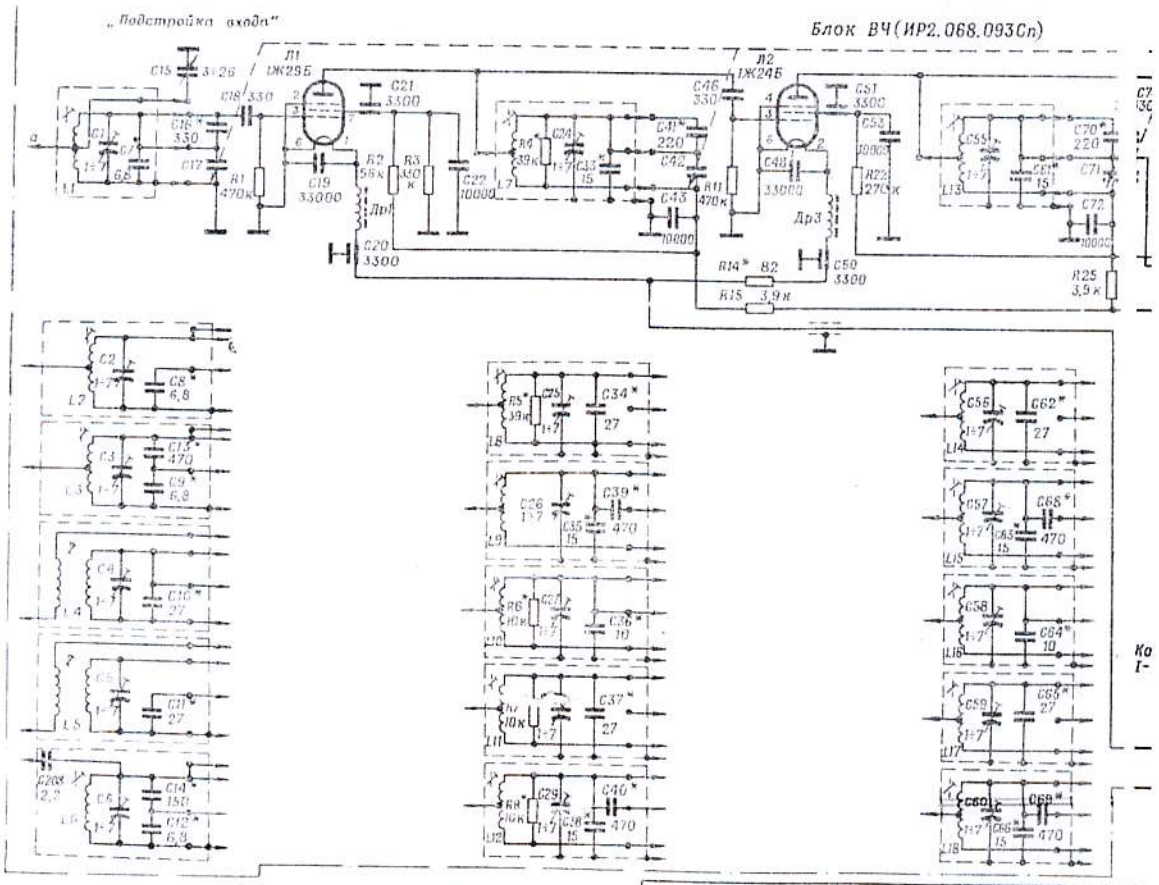
Credit Line: www.cqham.ru http://www.oldradioclub.ru/

Usual malfunction of the receiver is a bad contact in the band’s switch. High level of noise, excitation on one or several bands, losses of sensitivity on one or several bands- all of this it is bad contact(s). Treatment- cleaning the contacts by rubber or cleaning liquid (like WD- 40), however as usual it gives short term effect for 6-12 month, then you need clean the contacts again. The tubes in the R-326 are very reliable they go out of operation very seldom. Sometimes replacement of old tubes by new ones gives significant decreasing of the noise. But it takes time and hard to do. The most reliable R- 326s were produced between 1965- 1970.

R- 326 rear view, with PSU

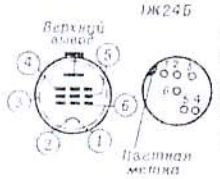
R- 326 with PSU and Manual

Quick Manual for R- 326 (at cover)



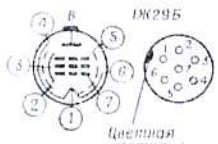
Цоколевка ламп

1Ж24Б



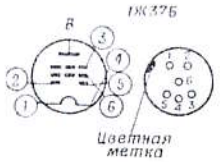
1 - Катод (+)
2 - Катод (-)
3 - Экран
4 - Сетка III
5 - Сетка II
6 - Сетка I
Верхний вывод - анод

1Ж29Б



1 - Катод (+)
2 - Сетка III
3 - Сетка II
4 - Катод (-)
5 - Экран
6 - Катод (-)
7 - Сетка I
8 - Анод (верхний вывод)

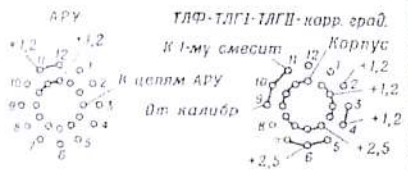
1Ж37Б



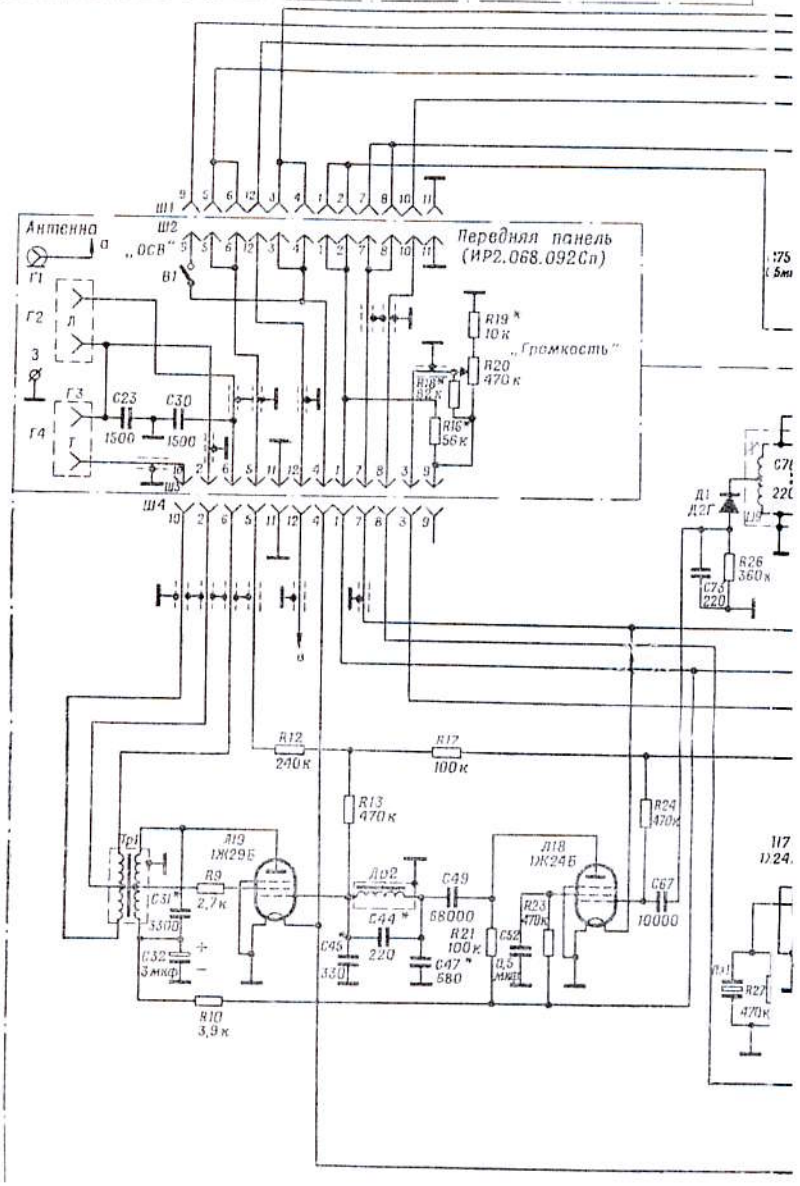
1 - Накал (-)
2 - Сетка I
3 - Сетка III
4 - Накал (+)
5 - Сетка I'
6 - Сетка II
8 - Анод (верхний вывод)

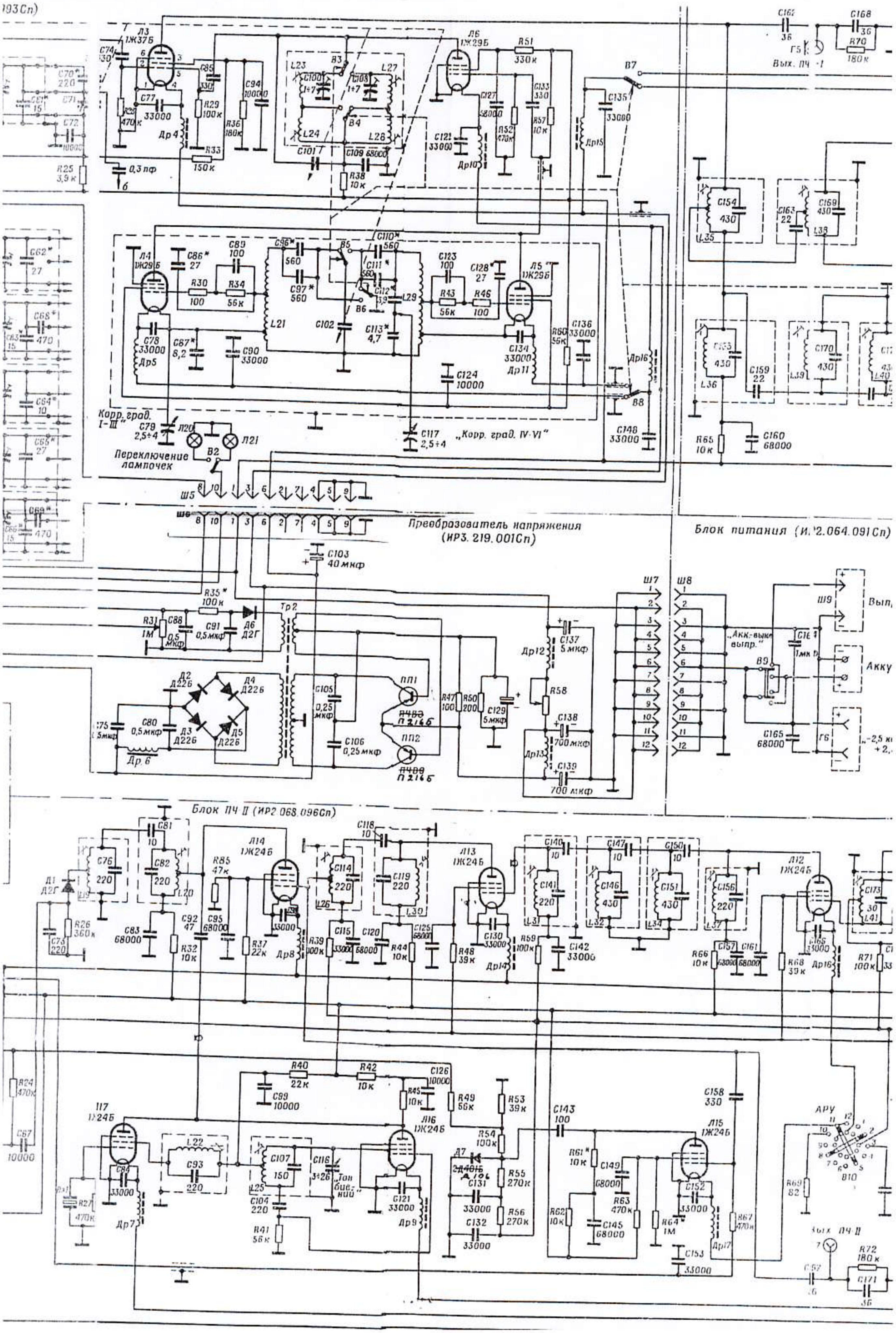
Триод ПЧЗЭ

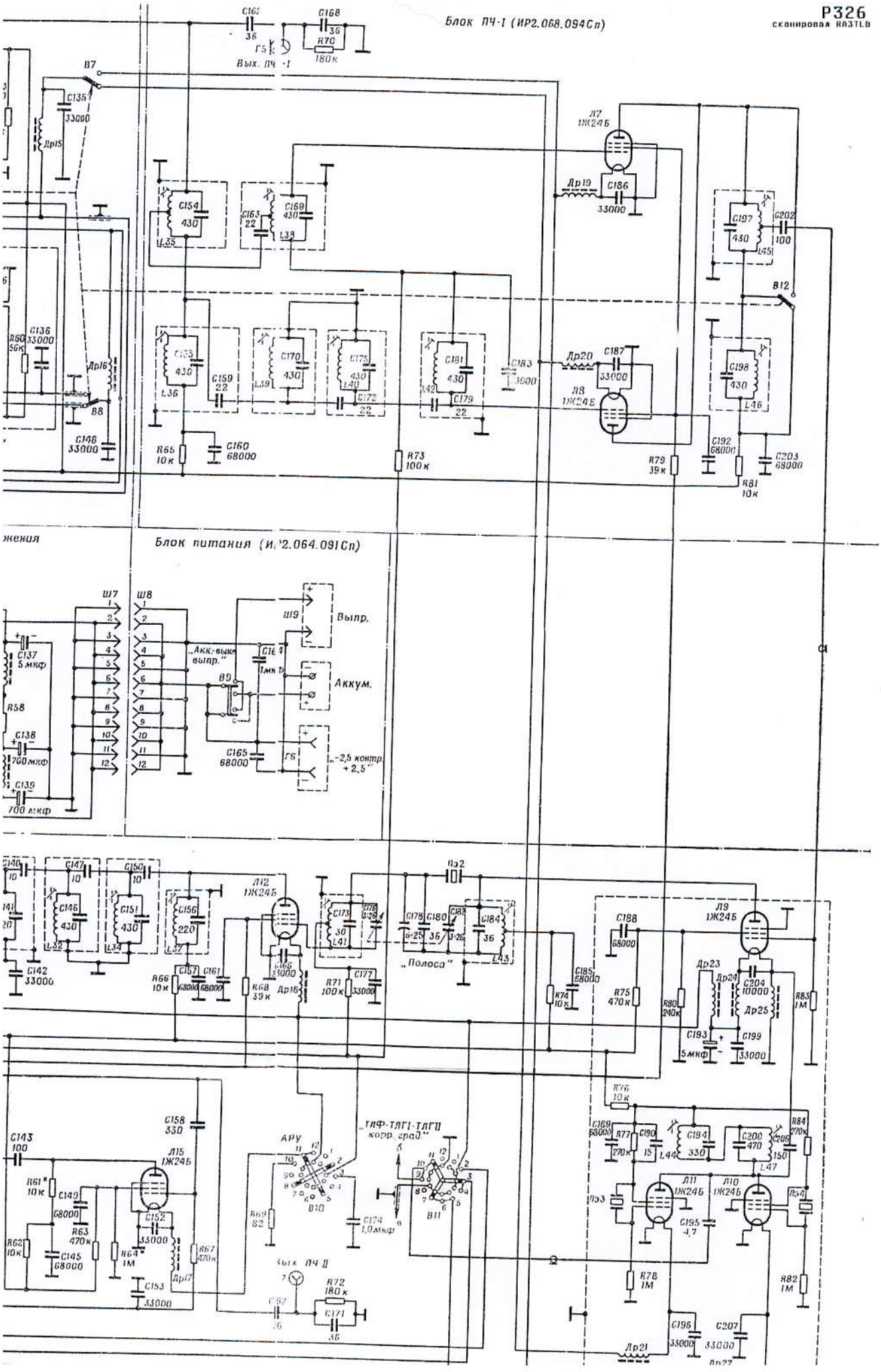
Э - Эмиттер
К - Коллектор
Б - База



1. Элементы, отмеченные звездочкой, подбираются при регулировке и могут отсутствовать совсем.
2. Схема соответствует включенному I поддиапазону в телеграфном режиме с включенной АРУ




Корр. град. I-III
„Корр. град. IV-VI"
Переключение лампочек
Преобразователь напряжения (ИР3.219.001Сп)
Блок питания (И.Р2.064.091Сп)
Блок ПЧ II (ИР2 068.096Сп)
„Акк.-выкл-выпр."
Вых. ПЧ-I
Вых. ПЧ II
АРУ
„Тон биения"
Выл.
Акку
„-2,5 к + 2,


Блок ПЧ-I (ИР2.068.094Сп)
Блок питания (И.Р2.064.091Сп)
Выпр.
Аккум.
-2,5 контр.
+2,5
„Полоса"
„ТЛФ-ТЛГ1-ТЛГII корр. град"
АРУ
Вых. ПЧ -1
Вых. ПЧ II