8-laboratoriya ishi

Tranzistorlarda bajariladigan kuchaytirgichlarni oʻrganish va sinash.

Ishning maqsadi: Kuchaytirgichlarni ishlash printsipi bilan tanishish.

Nazariy ma'lumotlar

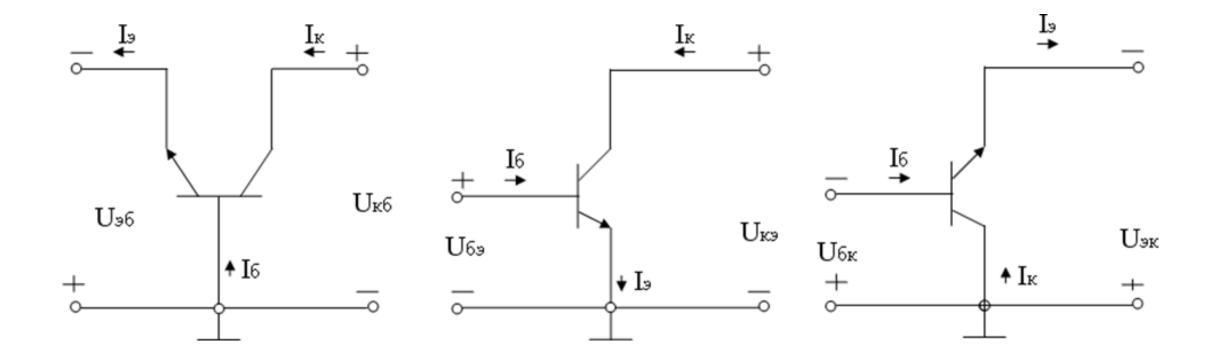
Tranzistor sxemaga ulanayotganda chiqishlaridan biri kirish va chiqish zanjiri uchun umumiy qilib ulanadi, shu sababli quyidagi ulanish sxemalari mavjud:

umumiy baza (UB) (28 a-rasm);

umumiy emitter (UE) (28 b-rasm);

umumiy kollektor (UK) (28 v-rasm).

Bu vaqtda umumiy chiqish potentsiali nol`ga teng deb olinadi. Kuchlanish manbai qutblari va tranzistor toklarining yo`nalishi tranzistorning aktiv rejimiga mos keladi. UB ulanish sxemasi qator kamchiliklarga ega bo`lib, juda kam ishlatiladi.



28– rasm.

Texnik xarakteristika

Stend o'rganiladigan kuchaytirgichlarning quyidagi xarakteristikalarini tekshirishga imkon beradi:

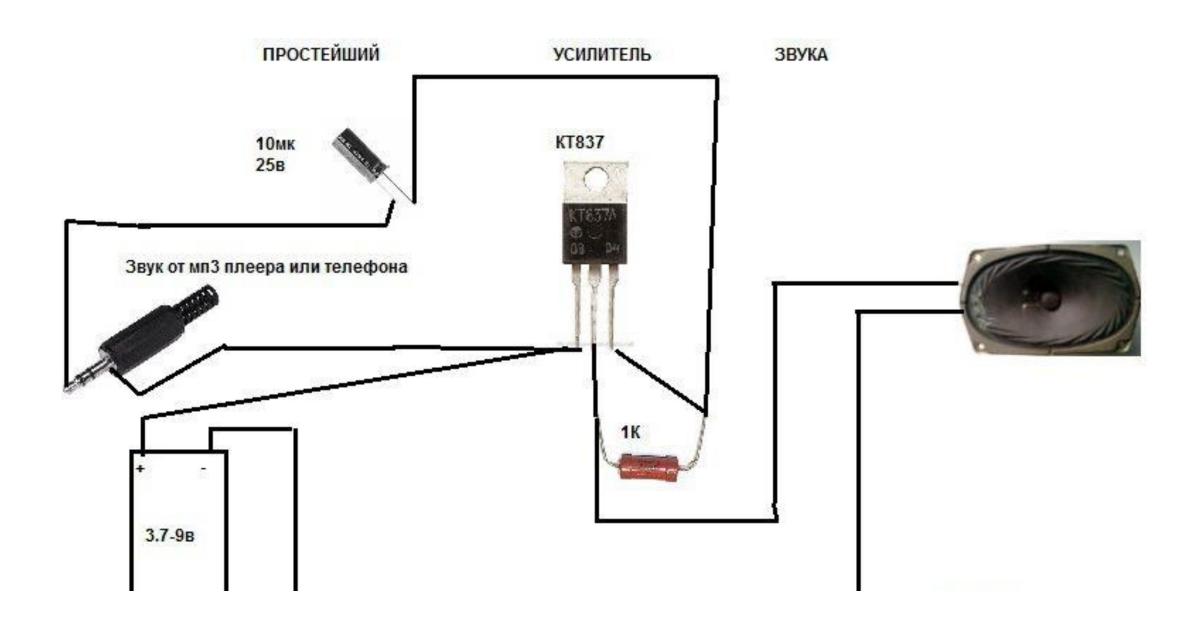
- a) tinchlik holati;
- b) am'lituda xarakteristikasi;
- v) kuchaytirgich koeffitsienti;
- g) chastota xarakteristikasi;
- d) sxemani xarakterli nuqtalarida tok va kuchlanishni otsillogrammalarini olish.

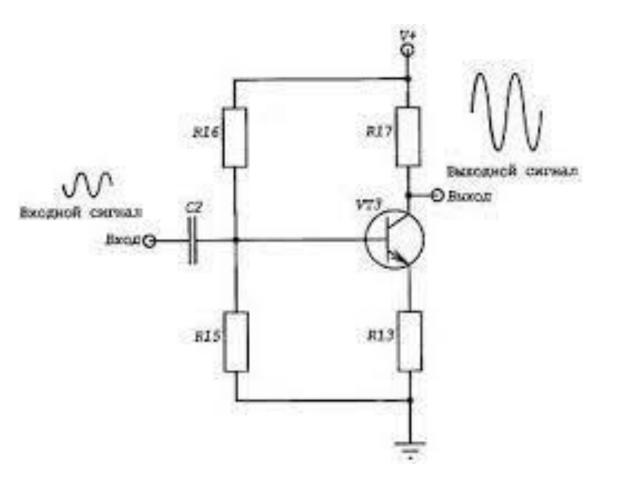
Kuchaytirgichning asosiy xarakteristikalari

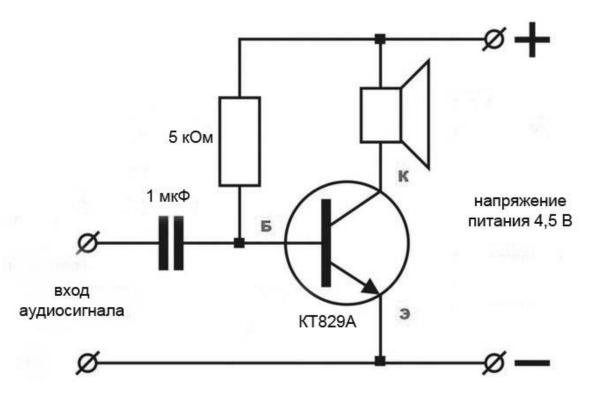
- a) kirish signallar dia'azoni, mV: 1-dan 2000-gacha;
- b) kollektor manbaasi kuchlanishining o'zgarish dia'azoni, V: 0-dan 24-gacha;
- v) stok manbaa kuchlanishi, V: 0-dan 12-gacha;
- g) tekshirilayotgan kuchaytirgichlarning kuchaytirish koeffitsienti dia'pa zoni: 0,4-

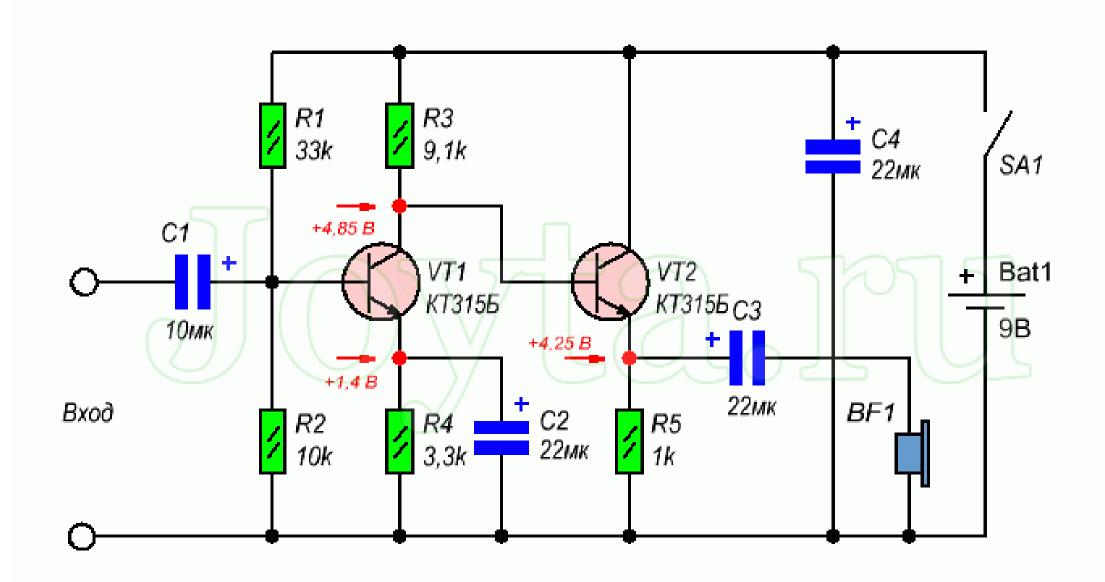
dan 50-gacha;

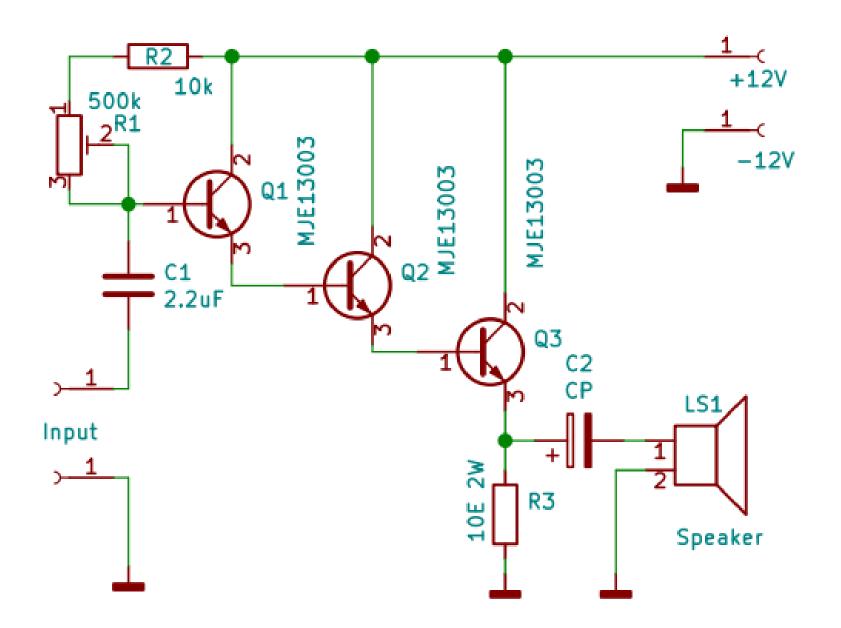
- d) tekshirilayotgan kuchaytirgichlarning kirish qarshiligi dia'azoni, O m: 100-dan 10000-gacha;
- e) tekshirilayotgan kuchaytirgichlarning yuklama qarshiligi dia'azoni, O m: 100 ÷ 10000;
- j) o'tkazish kengligi, kGts: 0,05 ÷ 100.

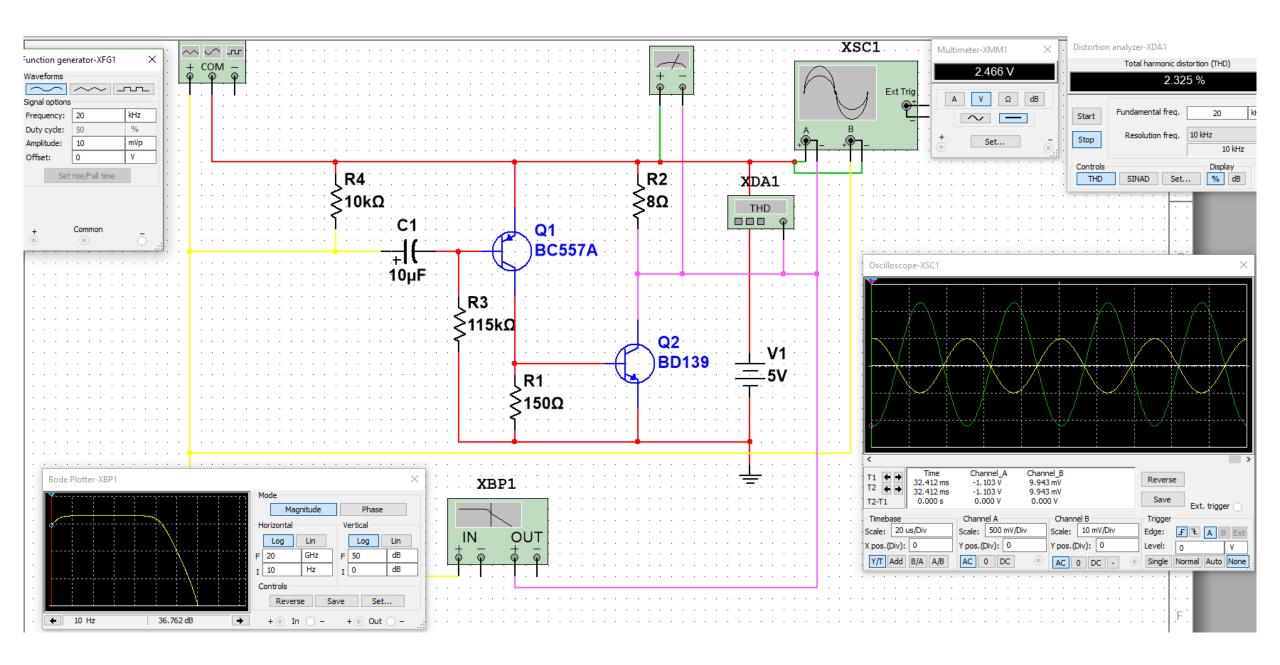


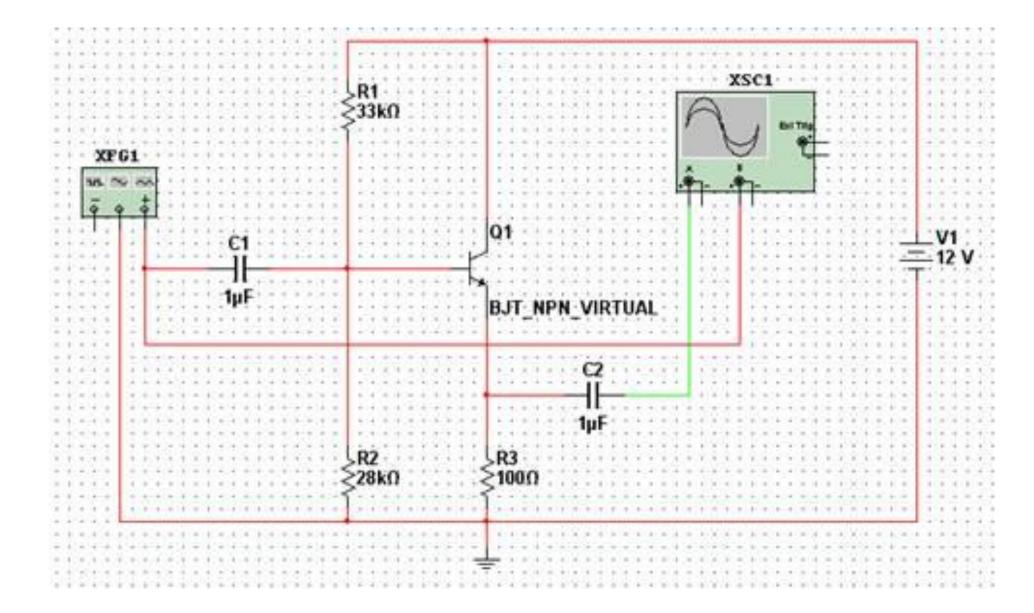


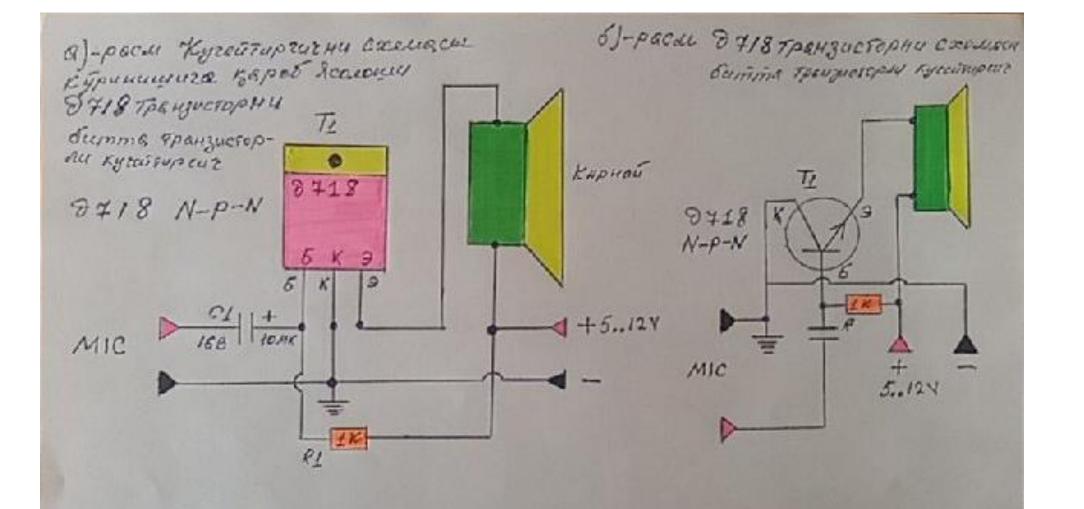




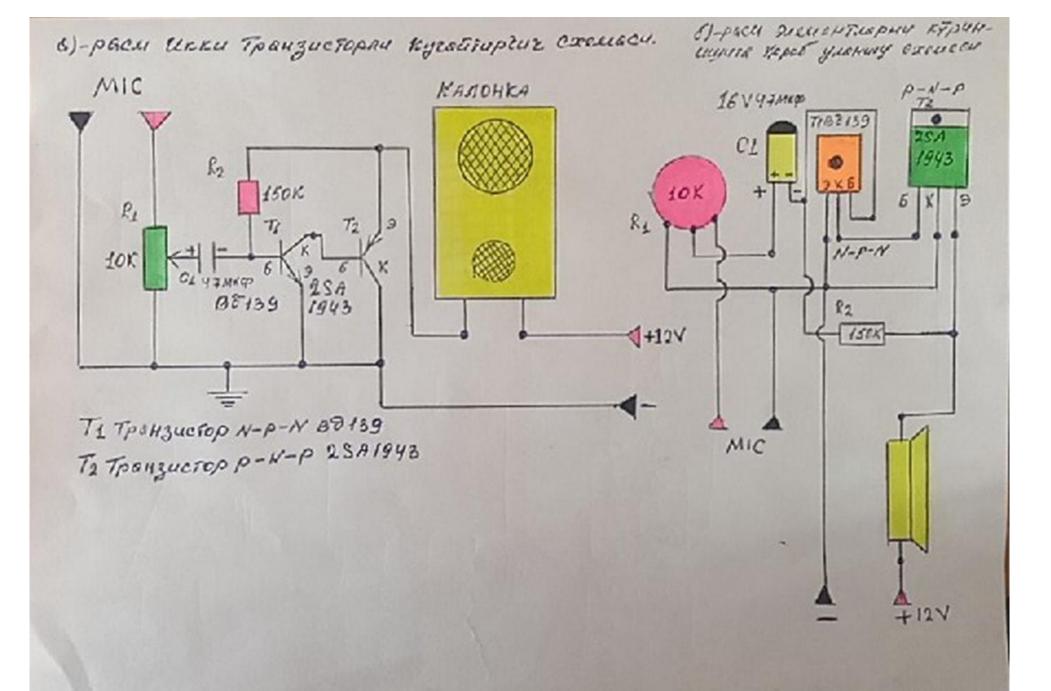


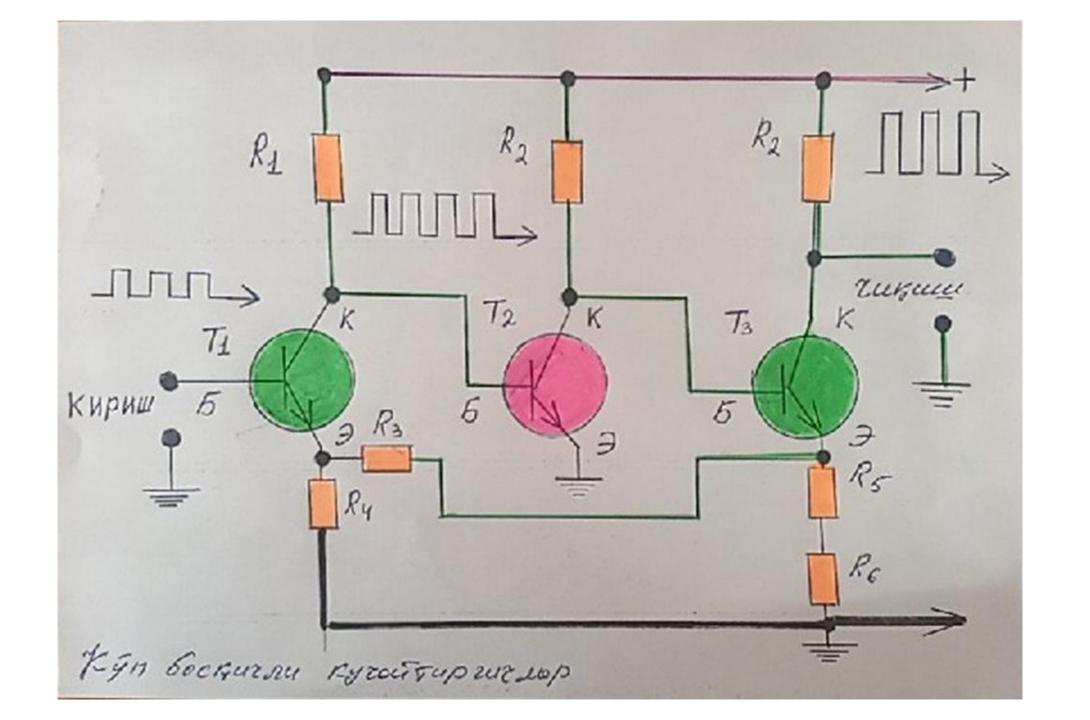


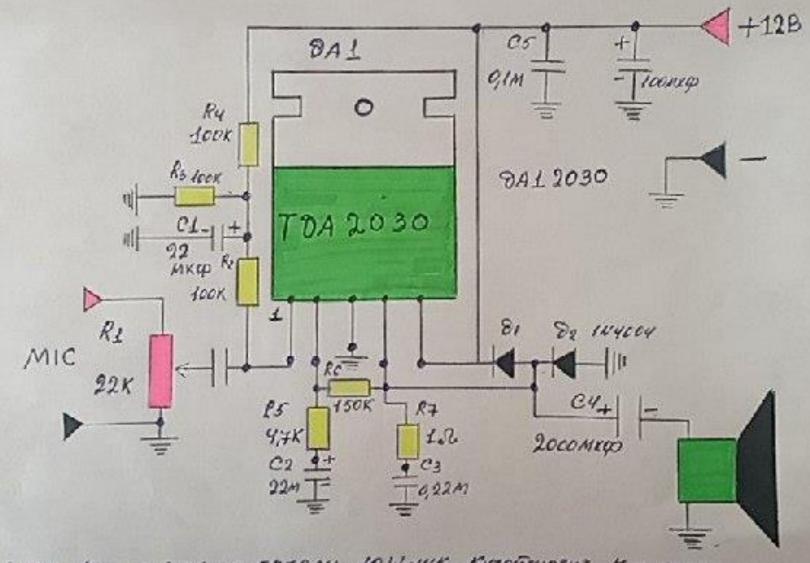




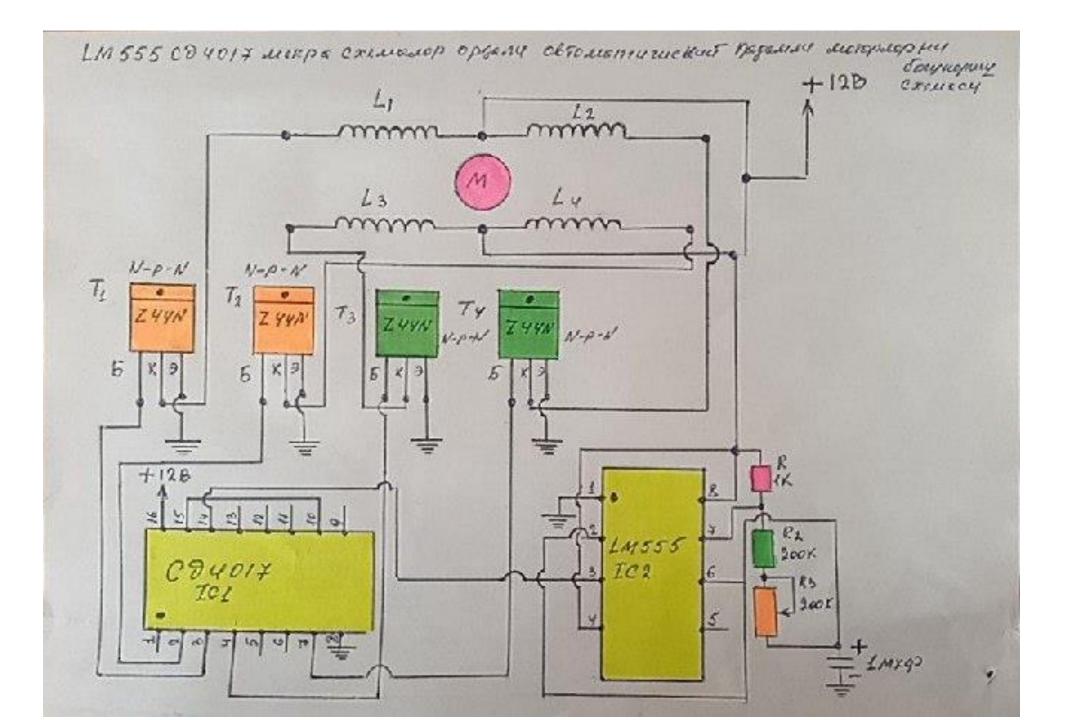
Кугойтиргични куриницига короб ясомини во самисине преб всемини.

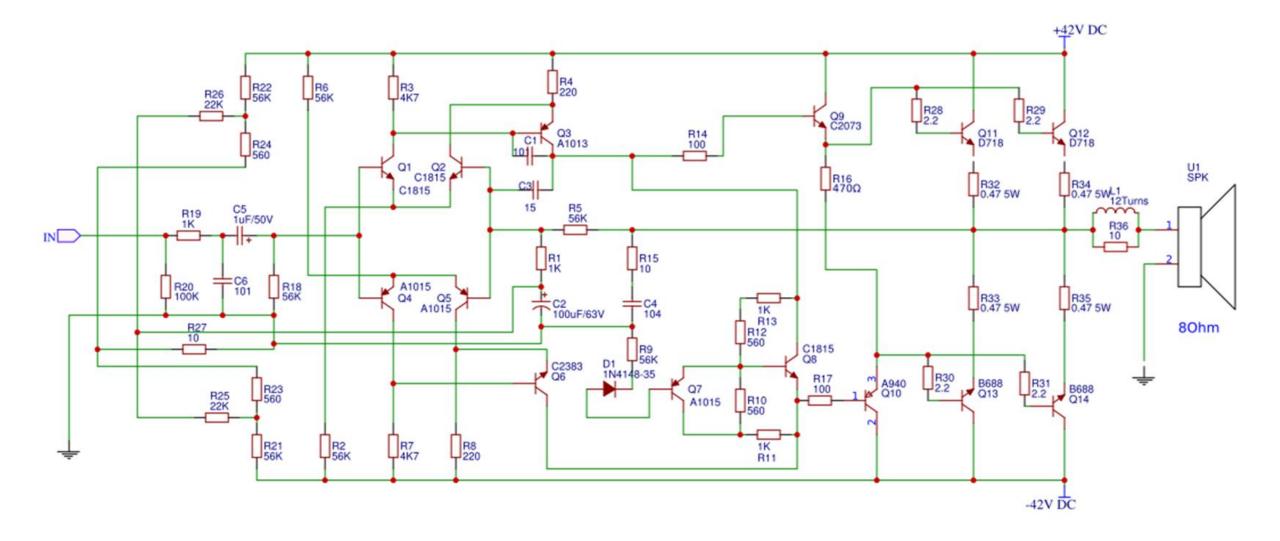


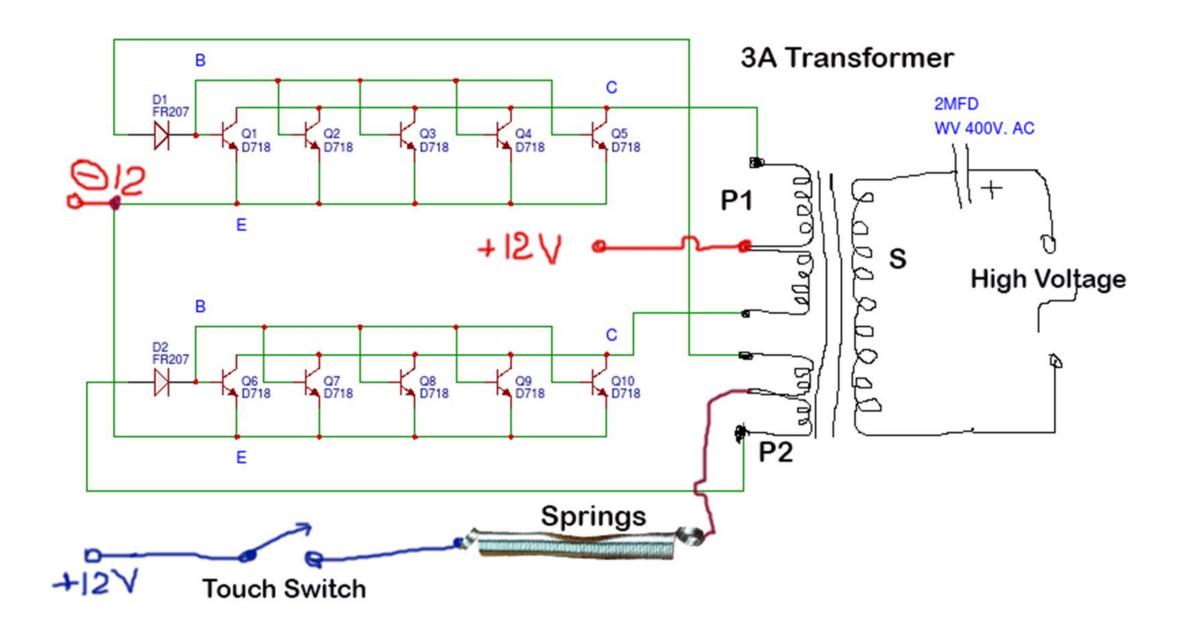


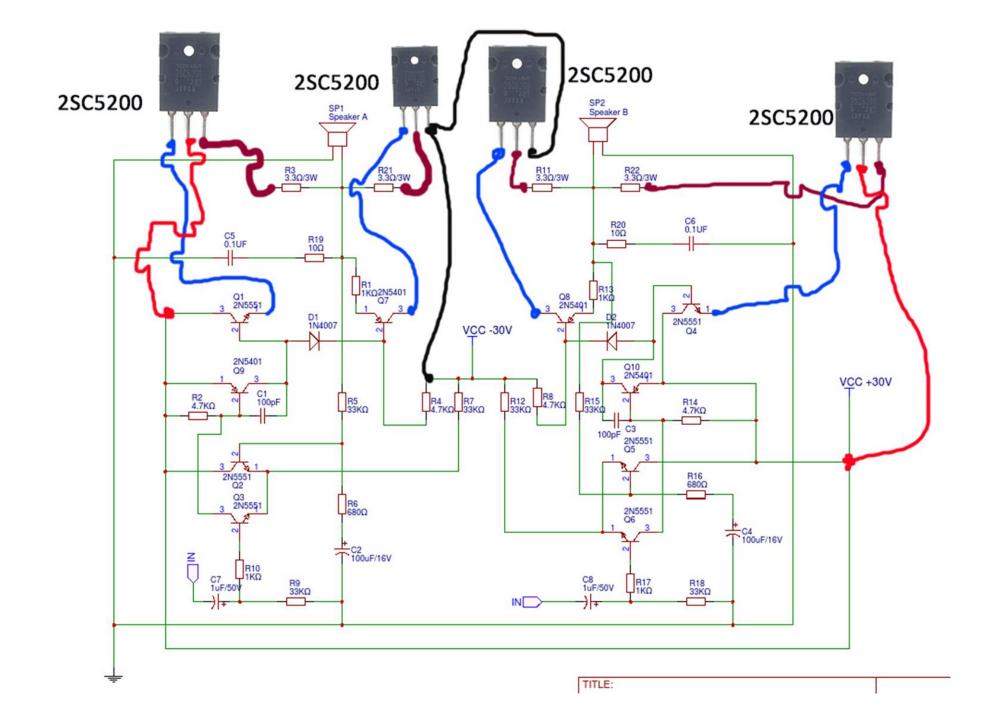


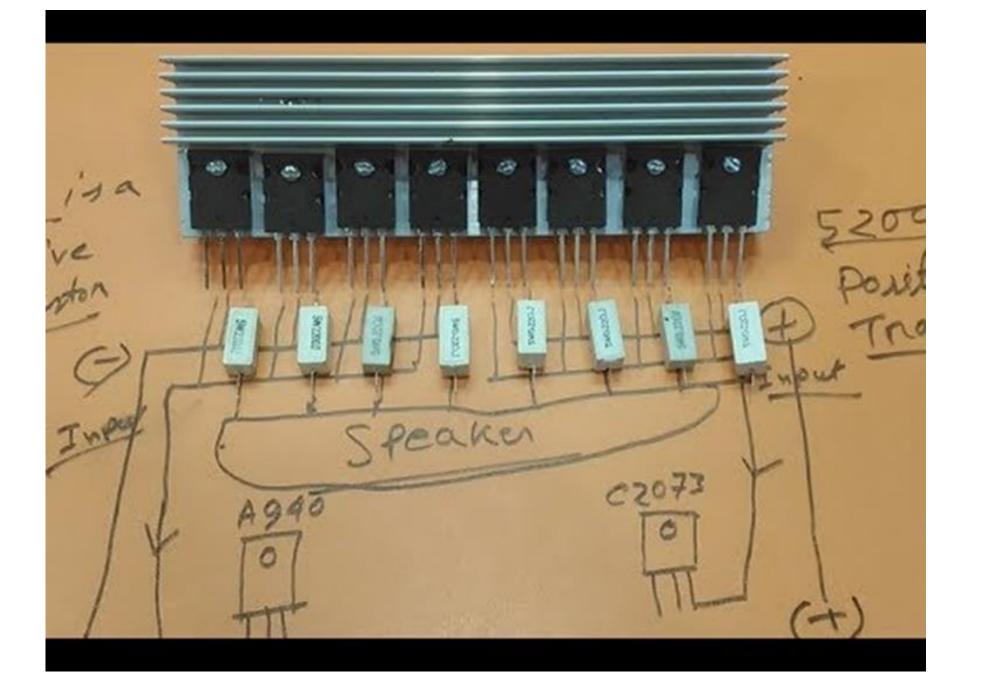
ТОА 2030 мекра сжемо органи 10 мык кусытиргие куриниван

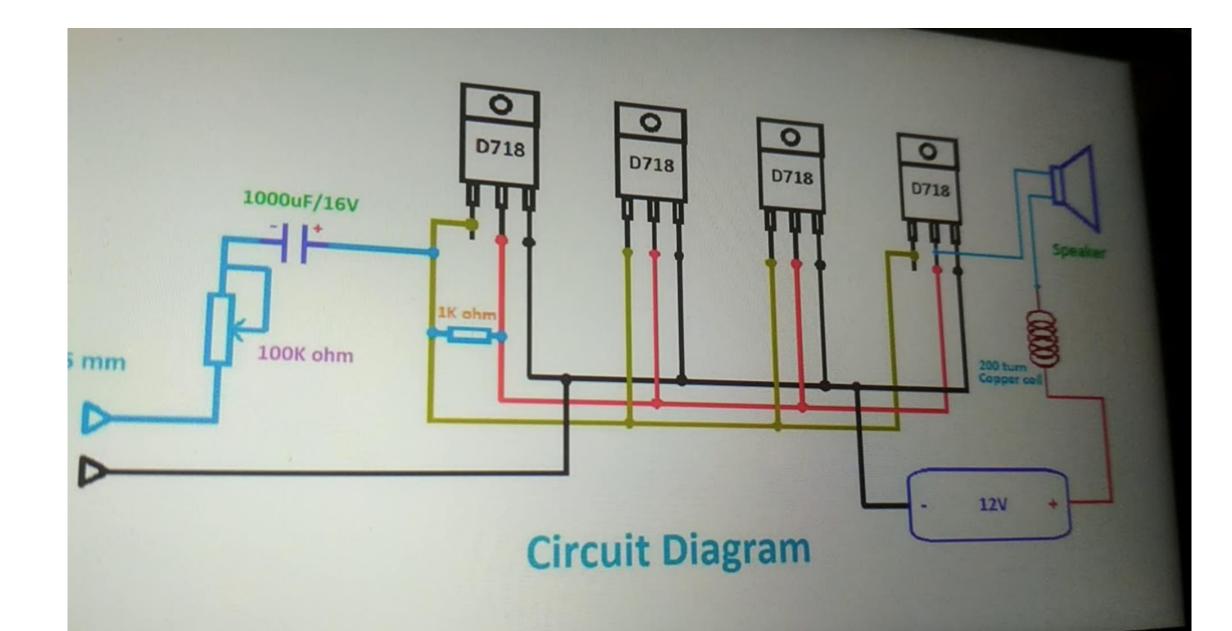


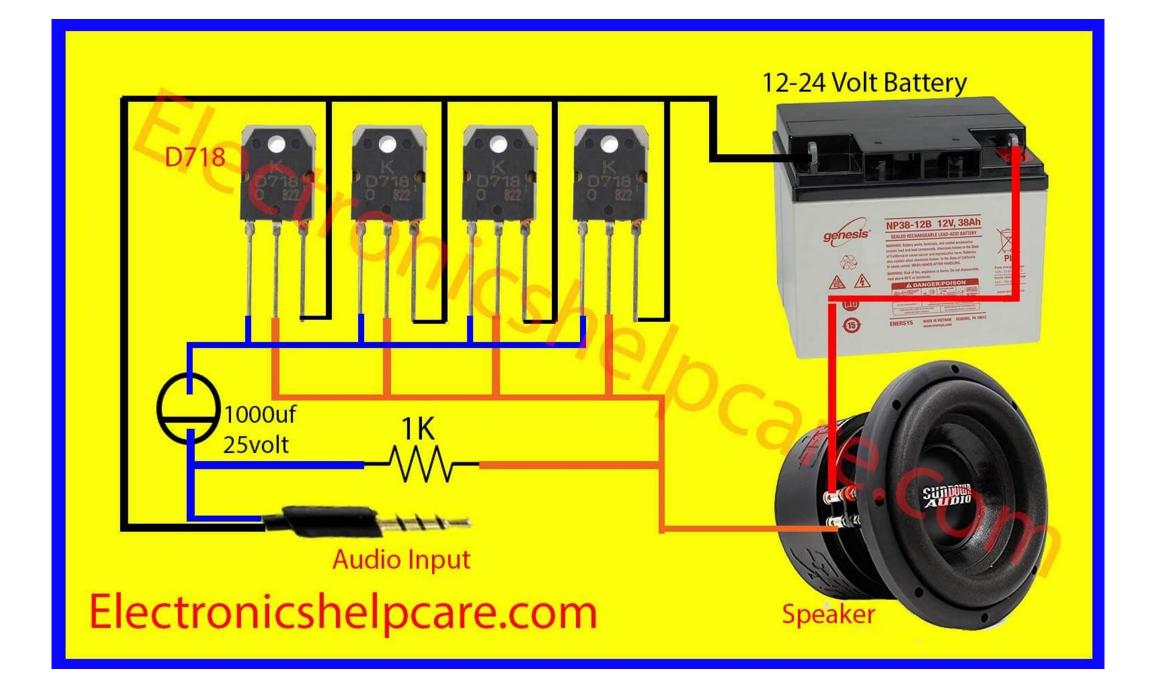






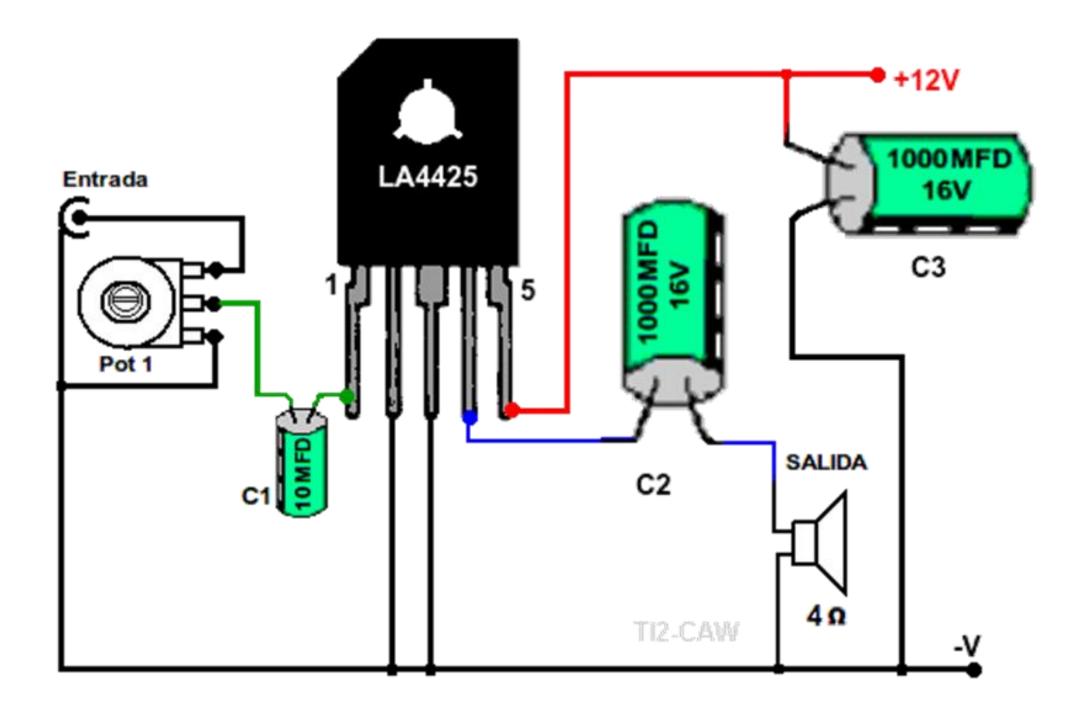


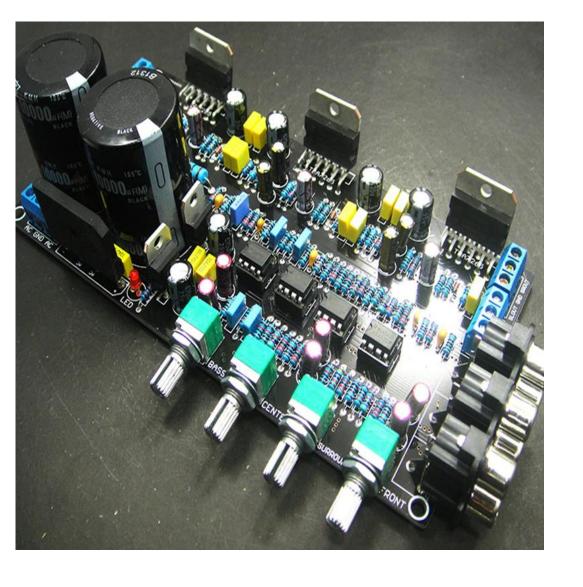


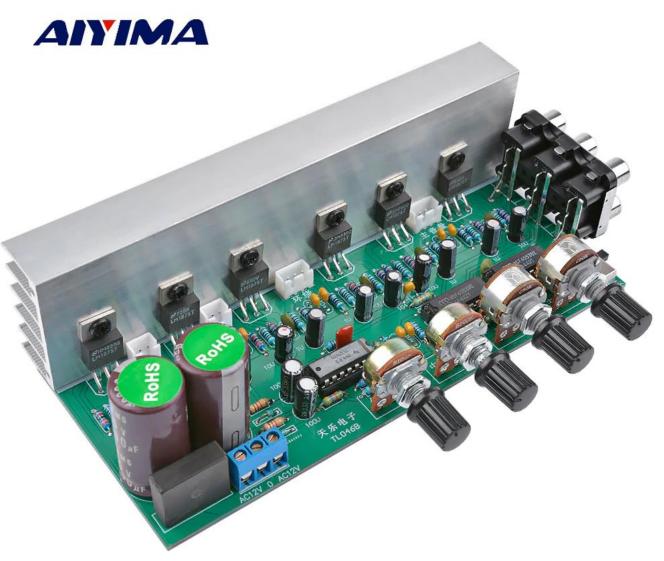


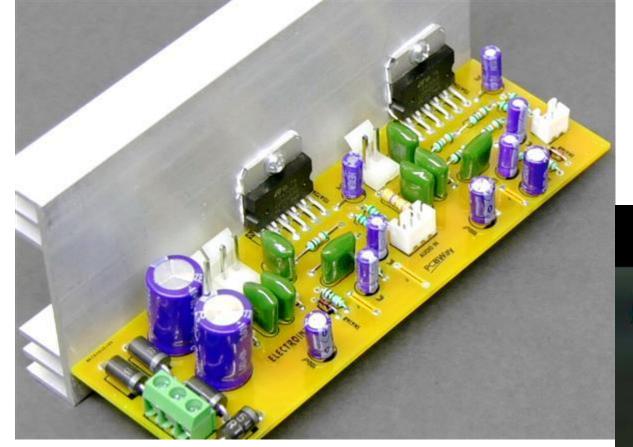




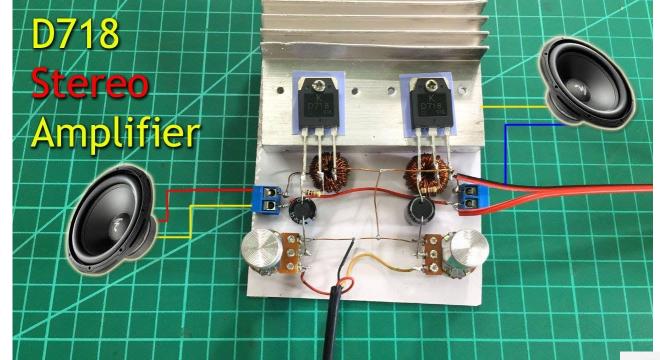




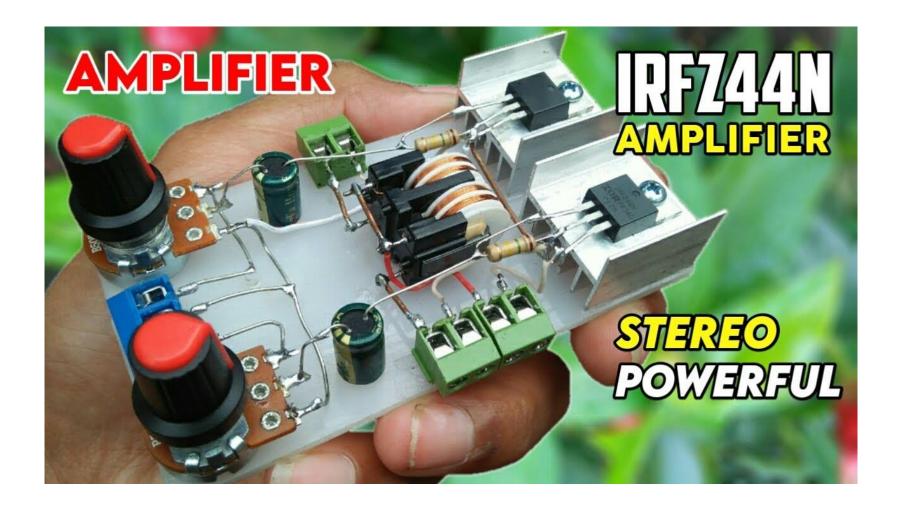
















Topshiriqlar

Topshirqni har bir talaba 2 trazistorli ovoz kuchaytirgich jurnal nomeri bo'yicha 1 tranzistorli ovoz kuchaytirgich tanlab. Jurnal nomeridagi 3 tranzistorli ovoz kuchaytirgich quvvat bo'yicha sxemani 4 tranzistorli ovoz kuchaytirgich tuzib MultiSim dasturida bajarish