

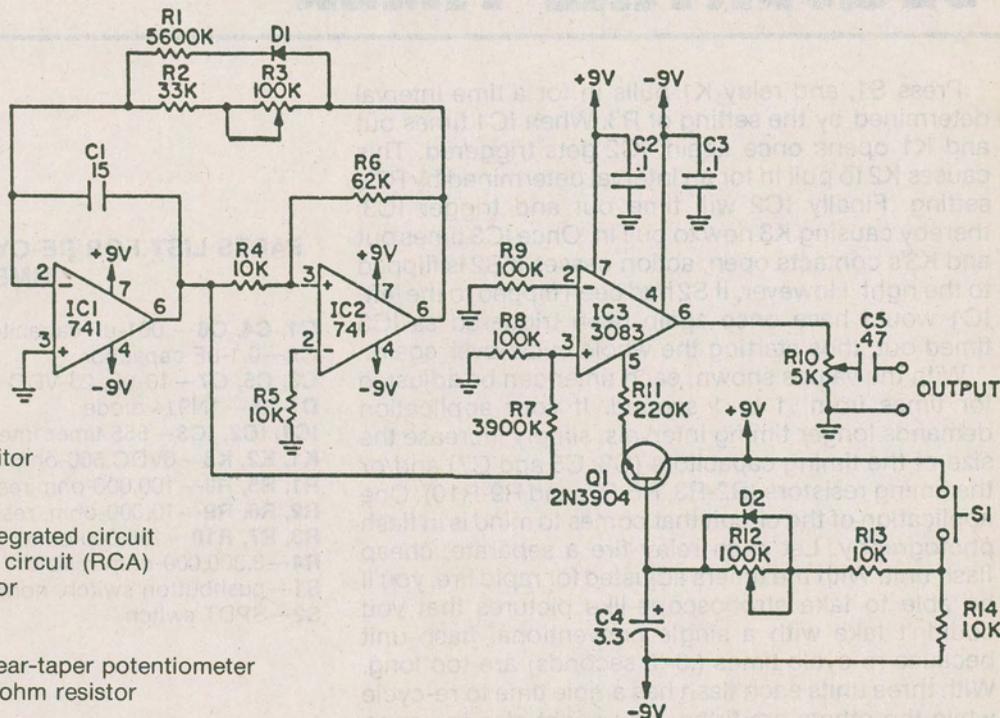
SLIDE TROMBONE

This is a novel little instrument that can be played through your stereo system. IC1 and IC2 comprise a ramp generator, the frequency of which is adjusted by R3. The range of adjustments spans two octaves from 150 to 600 Hz. The ramp signal is fed to modulator

IC3, which imparts a natural-sounding attack and decay to the note that sounds when S1 is pressed. R12 allows adjustment of the note's decay interval, and R10 controls the volume. Maximum signal amplitude at the output is 500 mV peak to-peak (sufficient to

PARTS LIST FOR SLIDE TROMBONE

- C1—0.15- μ F capacitor
- C2, C3—0.1- μ F capacitor
- C4—3.3- μ F, 25VDC capacitor
- C5—0.47- μ F capacitor
- D1, D2—1N914 diode
- IC1, IC2,—741 op amp integrated circuit
- IC3—3080 amp integrated circuit (RCA)
- Q1—2N3904 NPN transistor
- R1—5,600-ohm resistor
- R2—33,000-ohm resistor
- R3, R12—100,000-ohm linear-taper potentiometer
- R4, R5, R13, R14—10,000-ohm resistor
- R6—62,000-ohm resistor
- R7—3,9000-ohm resistor
- R8, R9—100-ohm resistor
- R10—5,000-ohm audio-taper potentiometer
- R11—220,000-ohm resistor
- S1—pushbutton switch, normally open



drive an amp's high-level input). To play, adjust R3 for a particular note; press S1; slide R3; then release S1. You can make things easy by calibrating R3 in terms of musical notes. Either a slide or rotating pot can be used for R3, depending on your playing preferences.