Viewing R3 as shown in Fig. 5, connect the center and right terminals of the potentiometer together and solder them to one of the two inner conductors of the shielded microphone cable. Then solder the remaining conductor to the free (left) terminal of R3. Solder the shield of the microphone cable to the metal case of R3, taking precautions not to damage the potentiometer or the cable from too much heat.

Continue by connecting the other end of the microphone cable

PARTS LIST FOR THE GUITAR DISTORTION PEDAL

SEMICONDUCTORS

IC1—LF353 dual JFET-input op-amp, integrated circuit
D1, D2—1N4148 general-purpose, low-power, switching diode

RESISTORS

(All resistors are ¼-watt, 5% units, unless otherwise noted.)
R1, R2, R4, R6, R7, R12, R13—10,000-ohm
R3, R9—500,000-ohm, panel-mount potentiometer
R5, R14—100,000-ohm, panel-mount potentiometer
R8, R10—4700-ohm
R11—270-ohm
R15—1000-ohm

CAPACITORS

C1—0.1-µF, polyester
C2—82-pF, ceramic-disc (see text)
C3, C4—0.047-µF, polyester
C5—0.0047-µF, polyester
C6—1-µF, 50-WVDC, electrolytic
C7—100-µF, 16-WVDC, electrolytic
C8, C10—0.01-µF, ceramic disc
C9—10-µF, 50 volts, electrolytic

ADDITIONAL PARTS AND MATERIALS

J1, J2—Monophonic, panel-mount, phone jack
S1—SPST switch
S2—DPDT pushbutton switch
B1—9-volt battery
Printed-circuit materials, 9-volt-battery connector, IC socket, two-conductor shielded microphone cable, case, solder, hardware, cable, knobs, cap for pushbutton switch, *etc.*