

Electronics Workshop - October 27, 2016

Time & Location:

7:00 PM

Fire District 6 Training Room, 2123 Jackson Highway, Chehalis, WA

Topics:

Receivers

<https://www.electronics-notes.com/articles/radio/radio-receivers/receiver-types.php>

<http://www.barl.org/assets/DocuImages/radio-receivers.pdf>

Inductors

QST, November 2016, pages 37-38

Arduino

<https://www.arduino.cc/>

Power Supply Loading

Reference:

<http://www.allaboutcircuits.com/textbook/>

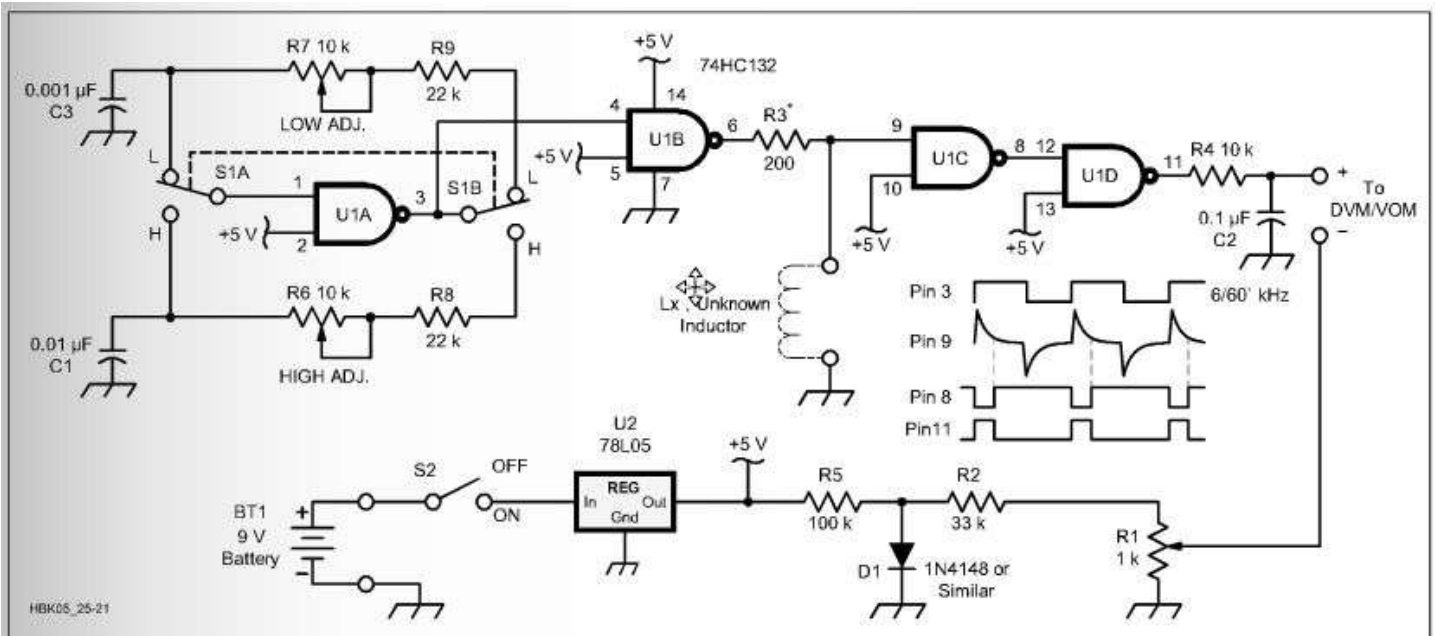


Figure 1 —All resistors are ¼ W and all capacitors are 35 V minimum. D1 can be any small signal switching diode. Similarly, a LM7805 or a 78L05 will work as U2. A socket is suggested for U1.

BT1 — 9 V battery; see text.

C1 — 0.01 μF, All Electronics 103D50

C2 — 0.1 μF, All Electronics 104D50

C3 — 0.001 μF, All Electronics 102D50

D1 — 1N4148 (almost any low current silicon diode may be used), All Electronics 1N4148

R1 — 1 kΩ potentiometer, Jameco 29050

R2 — 33 kΩ stock item, available from many sources

R3 — 200 Ω, stock item, available from many sources

R4, R7 — 10 kΩ potentiometer, Jameco 29082

R8, R9 — 22 kΩ, stock item, available from many sources

R3 — 200 Ω, stock item, available from many sources

R4 — 10 kΩ, stock item, available from many sources

R5 — 100 kΩ, stock item, available from many sources

R6, R7 — 10 kΩ potentiometer, Jameco 29082

R8, R9 — 22 kΩ, stock item, available from many sources

S1 — Two-pole two-position switch, Jameco #2215785 or #317850

S2 — SPST switch, Jameco #76241

SO1 — 14-pin socket for U1, All Electronics ICS-14

U1 — 74HC132, Jameco 74HC132N

U2 — 78L05, All Electronics 78L05