

(>.....<)

FROM PIN 2 <-----| |----->G
P1

b. Piezoelectric transducer

(>.....<)

FROM PIN 2 <-----| |----->G
P1
----- / |
| |-----| / |
>||< |S1| |
>||< --| | |
>||< | | |
G<----->||<---
T1

c. Electromagnetic transducer

Parts List

- U1 - Texas Instruments TCM1506
- T1 - 4000:8 ohm audio transformer
- S1 - 8 ohm speaker
- R1 - 2.2k resistor
- R2 - External variable resistor; adjusts timing frequency
- C1 - .47uF capacitor
- C2 - .1uF capacitor
- C3 - 10uF capacitor
- L1 - Tip
- L2 - Ring
- L1 and L2 are the phone line.

Shift Rate:

This is the formula for determining the shift rate:

$$SR = \frac{1}{(DSR(1/f_1) + DSR(1/f_2))} = \frac{1}{\frac{128}{1714} + \frac{128}{1500}} = 6 \text{ Hz}$$

- DSR = Shift Divider Rate ratio = 128
- f1 = High Output Frequency = 1714
- f2 = Low Output Frequency = 1500

119.The Tron Box by The GREAT Captain Crunch!!

-----R---F---
| | | |
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(C) (C) (C)
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| | | |

- (C)=capacitor
- F =fuse
- R =resistor
- |,- are wire