Tutorial1B

TA

2015 10 8

1. はじめに

Tutorial1B I/O

- I/O
  - I/O
-
  -
  -
  -
-

1.1 使用するもの

Tutorial

-
-
- 2 × 13 (2)
- (47Ω , 10kΩ, 22kΩ 1)
- 1μF (1)
- 74HC14AP (1)
- (1)
- (4)
- (1)
- (4)
- ( )
- (, , 15cm)

2. I/O 拡張

VS-WRC003LV H8/36064G I/O I/O
2×13 I/O

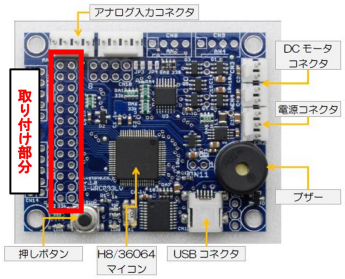


Fig. 1: I/O

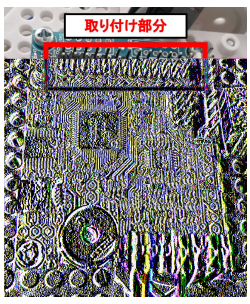


Fig. 2: I/O

2.1 半田付けに関して

-
  1.
  2.
  3.
  4.
-
  - IC
  -
  -
  -
  - (Fig. 3)
    (Fig. 4)

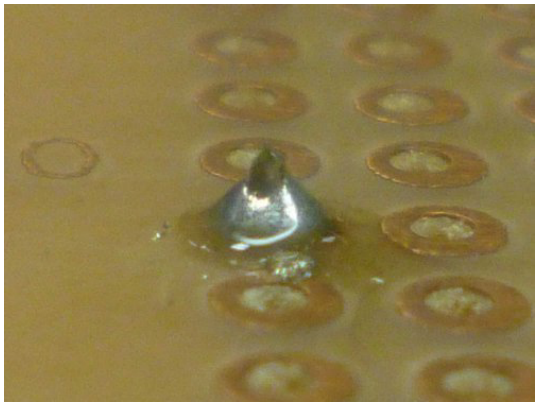


Fig. 3:

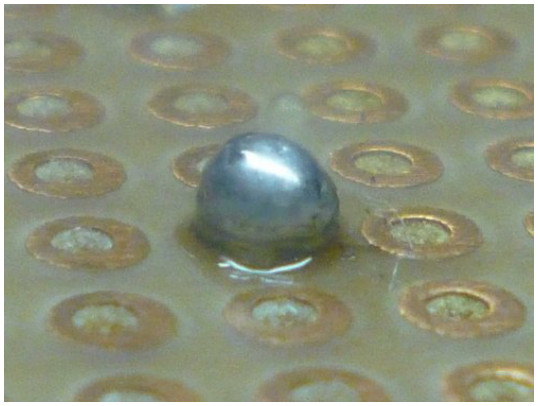


Fig. 4:

2.2 課題

2.1 : I/O

I/O 2

3. チャタリング防止回路の製作

3.1 チャタリングとは

ON/OFF

ON/OFF

3.2 回路図から実体配線図

Tutorial Fig. 5

Fig. 6

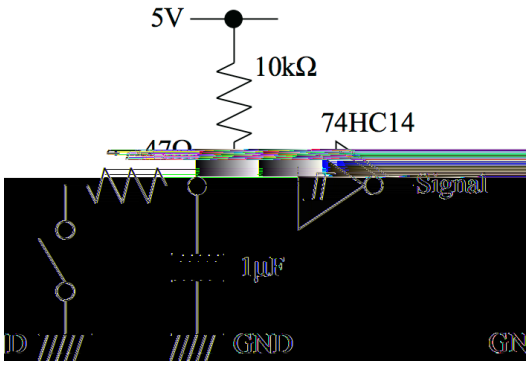


Fig. 5:

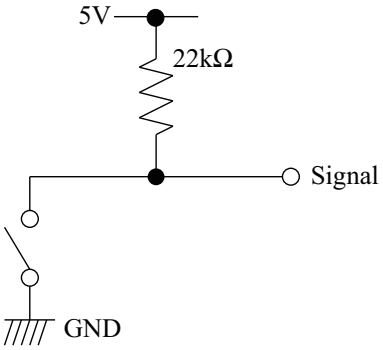


Fig. 6:

Fig. 7

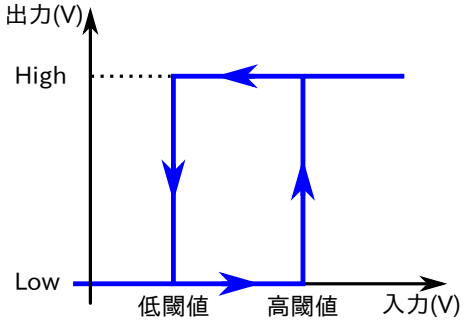


Fig. 7:

74HC14 IC Fig. 8 Fig. 9

IC IC

Tutorial IC 2 ~ 6 V

IC

Fig. 9

Tutorial IC TC74HC14AP



Fig. 8: 74HC14

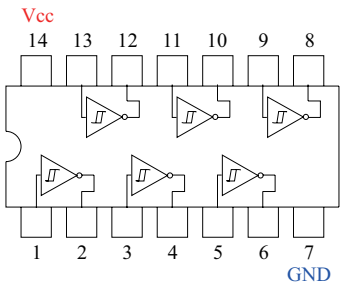


Fig. 9: 74HC14

Tutorial Table.1

Table 1:

10k 47 22k	
1 F	105

3.3 ブレッドボードの使い方

Fig. 10



Fig. 10:

GND

GND

ABCDEF GHIJKL
IC IC

3.4 課題

3.1

Fig.5 Fig.6
IC

3.2

1

-
- 5V GND
- 74HC14 Vcc, GND
- 74HC14

3.3

1 2 Fig.5 Fig.6 Tutorial1A

- Fig.5 Signal 5V 0V
- 74HC14
- Fig.6 Signal 0V 5V

IC

4. コネクタの作成

Tutorial PSD

Fig. 12

1.

2.

3.

3 Fig. 11

Fig. 12

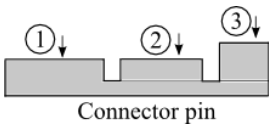


Fig. 11:

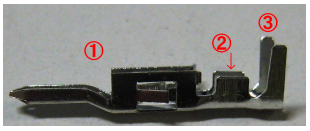


Fig. 12:

Step 1

1 1.8 2

Step 2

Step 3

(PSD)

( )

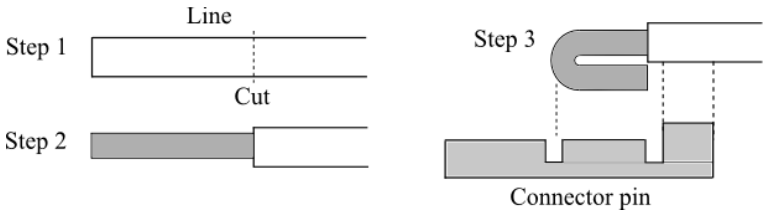


Fig. 13:

Step 4, 5

3

Step 6

2 3

3

Step 7

2

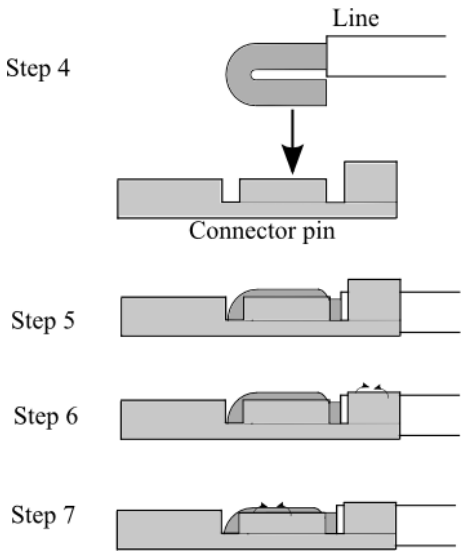


Fig. 14:

4.1 課題

4.1 :