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# Installing WiringPi on Raspberry Pi

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## Installing WiringPi manually

All this procedure is carried out on your Raspberry Pi.  
Let's start. If you haven't installed git yet, install it:

```
pi@raspberrypi:~ $ apt install git
```

Let's create a Debian package

1.Fetch the sources

```
pi@raspberrypi:~ $ git clone https://github.com/WiringPi/WiringPi.git
```

After executing the previous command, the WiringPi subdirectory will have been created

2.Pull the latest changes

```
pi@raspberrypi:~$ cd WiringPi
pi@raspberrypi:~/WiringPi $ git pull origin
```

3.Build the package. Execute the command build

```
pi@raspberrypi:~/WiringPi $ ./build debian
```

4.Move the package built in the debian-template subdirectory to the current subdirectory

```
pi@raspberrypi:~/WiringPi $ mv debian-template/wiringpi_3.4_arm64.deb .
```

5.Install the package

```
pi@raspberrypi:~/WiringPi $ sudo apt install ./wiringpi_3.4_arm64.deb
```

6.Test. We can test that the package installation was successful executing the `gpio readall` command to print a table of the 40-pin connector configuration.

```
pi@raspberrypi:~/WiringPi $ gpio readall
```

Pi 3B												
BCM	wPi	Name	Mode	V	Physical	V	Mode	Name	wPi	BCM		
		3.3v			1	2		5v				
2	8	SDA.1	IN	1	3	4		5v				
3	9	SCL.1	IN	1	5	6		0v				
4	7	GPIO. 7	IN	1	7	8	0	IN		15	14	
		0v			9	10	1	IN		16	15	
17	0	GPIO. 0	IN	0	11	12	0	IN		GPIO. 1	1	18
27	2	GPIO. 2	IN	0	13	14		0v				
22	3	GPIO. 3	IN	0	15	16	0	IN		GPIO. 4	4	23
		3.3v			17	18	0	IN		GPIO. 5	5	24
10	12	MOSI	IN	0	19	20		0v				
9	13	MISO	IN	0	21	22	0	IN		GPIO. 6	6	25
11	14	SCLK	IN	0	23	24	1	IN		CE0	10	8
		0v			25	26	1	IN		CE1	11	7
0	30	SDA.0	IN	1	27	28	1	IN		SCL.0	31	1

[illegible]