**HEADER 1 (LEFT OUT\* PINS OF RASP PI)**

|  |  |
| --- | --- |
| HEADER 1  PIN NO. | RASPBERRYPI  (MAIN HEADER)  PIN NO. |
| 1 | 34 |
| 2 | 30 |
| 3 | 28 |
| 4 | 26 |
| 5 | 24 |
| 6 | 22 |
| 7 | 20 |
| 8 | 18 |
| 9 | 16 |
| 10 | 14 |
| 11 | 12 |
| 12 | 6 |

* **HEADER 2 (LEFT OUT PINS OF PI)**

|  |  |
| --- | --- |
| HEADER 2  PIN NO. | PIN NO. |
| 1 | 1 |
| 2 | 9 |
| 3 | 11 |
| 4 | 13 |
| 5 | 15 |
| 6 | 17 |
| 7 | 19 |
| 8 | 21 |
| 9 | 23 |
| 10 | 25 |
| 11 | 27 |
| 12 | 29 |

* **HEADER 3 (SR04 A)**

|  |  |
| --- | --- |
| HEADER 3  PIN NO. | CONN. PIN  OF PI  PIN NO. |
| 1 | 40 |
| 2 | 38 |
| 3 | Vcc |
| 4 | GND |
| 5 | NC\* |
| 6 | NC |
| 7 | NC |
| 8 | NC |

* **HEADER 4 (SR04 B)**

|  |  |
| --- | --- |
| HEADER 4  PIN NO. | PI  PIN NO. |
| 1 | 40 |
| 2 | 38 |
| 3 | Vcc |
| 4 | GND |
| 5 | NC |
| 6 | NC |
| 7 | NC |
| 8 | NC |

* **HEADER 5 (GPS MODULE NEO 6M)**

|  |  |
| --- | --- |
| HEADER 5  PIN NO. | CONN. PIN  PIN NO. |
| 1 | 8 |
| 2 | 10 |
| 3 | 3.3 V |
| 4 | GND |
| 5 | 39 ( LEFT OF PI)\* |
| 6 | 37 (LEFT OF PI) |
| 7 | 35 (LEFT OF PI) |
| 8 | 33 (LEFT OF PI) |

* **HEADER 6 (MPU 6050)**

|  |  |
| --- | --- |
| HEADER 6  PIN NO. | CONNECTED  TO |
| 1 | 3(PI) |
| 2 | 5(PI) |
| 3 | 3.3 V |
| 4 | GND |
| 5 | NC |
| 6 | NC |
| 7 | 6(Of L298) |
| 8 | 11(of L298) |

* **HEADER 7 (PIR)**

|  |  |
| --- | --- |
| HEADER 7  PIN NO. | PI  PIN NO. |
| 1 | 7 |
| 2 | Vcc |
| 3 | GND |
| 4 | 2 (PI NC)\* |
| 5 | 4(PI NC) |
| 6 | 31(PI NC) |
| 7 | NC |
| 8 | NC |

* **MOTOR DRIVER L298:**

|  |  |
| --- | --- |
| PIN NO. OF L298 | CONNECTED TO (pi) |
| 5 | 32 |
| 7 | 36 |
| 10 | 38 |
| 12 | 42 |

\*ALL CONNCECTIONS ARE MADE AS PER THE STANDARD FIGURES AVAILABLE ON THE INTERNET.

\*LEFT OUT=THE PINS WHICH ARE NOT USED FOR ANY SENSOR OR MOTOR DRIVER OR ANY OTHER SIGNALLING.

\*NC=NOT CONNECTED

\*HEADER OTHER THEN 1 & 2 HAVING SOME NC PINS ARE ALSO USED TO ROUTE THE LEFT OUT PINS OF pi.