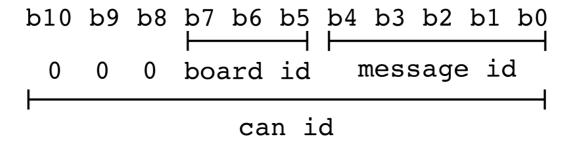
```
6 boards ==> 3 bits ==> 2^3 = 8 values 8 messages ==> 3 bits ==> 2^3 = 8 values
```

BITS LAYOUT

In the CAN protocol the standard id is compound by 11 bits.



BOARD IDENTIFIERS

```
LEFT HIP (LH) => 000 001 00000 => BOARD ID 32 (0x020)
LEFT KNEE (LK) => 000 010 00000 => BOARD ID 64 (0x040)
LEFT ANKLE (LA) => 000 011 00000 => BOARD ID 96 (0x060)
RIGHT HIP (RH) => 000 100 00000 => BOARD ID 128 (0x080)
RIGHT KNEE (RK) => 000 101 00000 => BOARD ID 160 (0x0A0)
RIGHT ANKLE (RA) => 000 110 00000 => BOARD ID 192 (0x0C0)
```

MESSAGE IDENTIFIERS

CAN IDENTIFIERS (EXAMPLES)

LA with EV \Rightarrow CAN ID 102 (0x066)

```
=> 000 001 00000 | 000 000 00001 => 000 001 00001
LH with KP
CAN ID 33 (0x021)
             => 000 001 00000 | 000 000 00010 => 000 001 00010
LH with KI
CAN ID 34 (0x022)
LH with KD
              => 000 001 00000 | 000 000 00011 => 000 001 00011
CAN ID 35 (0x023)
             => 000 001 00000 | 000 000 00100 => 000 001 00100
LH with SS
CAN ID 36 (0x024)
LH with PRE
             => 000 001 00000 | 000 000 00101 => 000 001 00101
CAN ID 37 (0x025)
             => 000 001 00000 | 000 000 00110 => 000 001 00110
LH with EV
CAN ID 38 (0x026)
             => 000 001 00000 | 000 000 00111 => 000 001 00111
LH with RAA
CAN ID 39 (0x027)
LH with RFLA => 000 001 00000 | 000 000 01000 => 000 001 01000
CAN ID 40 (0x028)
LH with AUX
             => 000 001 00000 | 000 000 01001 => 000 001 01001
CAN ID 41 (0x029)
LH with SSP => 000 001 00000 | 000 000 11111 => 000 001 11111
CAN ID 63 (0x03F)
              => 000 001 00000 | 000 000 11110 => 000 001 11110
LH with JSP
CAN ID 62 (0x03E)
LH with PDP => 000 001 00000 | 000 000 11101 => 000 001 11101
CAN ID 61 (0x03D)
LK with KP \Rightarrow CAN ID 65 (0x041)
LK with KI => CAN ID 66 (0x042)
LK with KD \Rightarrow CAN ID 67 (0x043)
LK with SS => CAN ID 68 (0x044)
LK with PRE \Rightarrow CAN ID 69 (0x045)
LK with EV \Rightarrow CAN ID 70 (0x046)
LK with RAA => CAN ID 71 (0x047)
LK with RFLA => CAN ID 72 (0x048)
LK with AUX => CAN ID 73 (0x049)
LK with SSP \Rightarrow CAN ID 95 (0x05F)
LK with JSP \Rightarrow CAN ID 94 (0x05E)
LK with PDP \Rightarrow CAN ID 93 (0x05D)
LA with KP \Rightarrow CAN ID 97 (0x061)
LA with KI \Rightarrow CAN ID 98 (0x062)
LA with KD \Rightarrow CAN ID 99 (0x063)
LA with SS \Rightarrow CAN ID 100 (0x064)
LA with PRE \Rightarrow CAN ID 101 (0x065)
```

```
LA with RAA \Rightarrow CAN ID 103 (0x067)
LA with RFLA => CAN ID 104 (0x068)
LA with AUX => CAN ID 105 (0x069)
LA with SSP \Rightarrow CAN ID 127 (0x07F)
LA with JSP \Rightarrow CAN ID 126 (0x07E)
LA with PDP \Rightarrow CAN ID 125 (0x07D)
RH with KP
            => CAN ID 129 (0x081)
RH with KI => CAN ID 130 (0x082)
RH with KD \Rightarrow CAN ID 131 (0x083)
RH with SS \Rightarrow CAN ID 132 (0x084)
RH with PRE \Rightarrow CAN ID 133 (0x085)
RH with EV \Rightarrow CAN ID 134 (0x086)
RH with RAA => CAN ID 135 (0x087)
RH with RFLA => CAN ID 136 (0x088)
RH with AUX => CAN ID 137 (0x089)
RH with SSP \Rightarrow CAN ID 159 (0x09F)
RH with JSP \Rightarrow CAN ID 158 (0x09E)
RH with PDP \Rightarrow CAN ID 157 (0x09D)
RK with KP \Rightarrow CAN ID 161 (0x0A1)
RK with KI => CAN ID 162 (0x0A2)
RK with KD \Rightarrow CAN ID 163 (0x0A3)
RK with SS => CAN ID 164 (0x0A4)
RK with PRE => CAN ID 165 (0x0A5)
RK with EV => CAN ID 166 (0x0A6)
RK with RAA => CAN ID 167 (0x0A7)
RK with RFLA => CAN ID 168 (0x0A8)
RK with AUX => CAN ID 169 (0x0A9)
RK with SSP \Rightarrow CAN ID 191 (0x0BF)
RK with JSP \Rightarrow CAN ID 190 (0x0BE)
RK with PDP \Rightarrow CAN ID 189 (0x0BD)
RA with KP \Rightarrow CAN ID 193 (0x0C1)
RA with KI => CAN ID 194 (0x0C2)
RA with KD \Rightarrow CAN ID 195 (0x0C3)
RA with SS => CAN ID 196 (0x0C4)
RA with PRE \Rightarrow CAN ID 197 (0x0C5)
RA with EV \Rightarrow CAN ID 198 (0x0C6)
RA with RAA => CAN ID 199 (0x0C7)
RA with RFLA => CAN ID 200 (0x0C8)
RA with AUX => CAN ID 201 (0x0C9)
RA with SSP => CAN ID 223 (0x0DF)
RA with JSP \Rightarrow CAN ID 222 (0x0DE)
RA with PDP \Rightarrow CAN ID 221 (0x0DD)
```

CAN FILERS AND CAN MASKS

```
Can mask for LH board => 111 111 10000
Can filter for LH board => 000 001 00000

Received id's 000 001 0XXXX
From 32 (0x020) to 47 (0x02F)
```

Can mask for LK board => 111 111 10000 Can filter for LK board => 000 010 00000 ----- Received id's 000 010 0XXXX From 64 (0x040) to 79 (0x04F)

Can mask for LA board => 111 111 10000 Can filter for LA board => 000 011 00000

Received id's 000 011 0XXXX From 96 (0x060) to 111 (0x06F)

Can mask for RH board => 111 111 10000
Can filter for RH board => 000 100 00000

Received id's 000 100 0XXXX From 128 (0x080) to 143 (0x08F)

Can mask for RK board => 111 111 10000 Can filter for RK board => 000 101 00000

Received id's 000 101 0XXXX From 160 (0x0A0) to 175 (0x0AF)

Can mask for RA board => 111 111 10000
Can filter for RA board => 000 110 00000

Received id's 000 110 0XXXX From 192 (0x0C0) to 207 (0x0CF)