

Speed Code Chart

Pin	9	10	11					
Left	D ₆	D ₅	D ₄					
Right	D ₂	D ₁	D ₀					
	4	2	1	Speed	74LS 151 Pin #	From	Forward	Reverse
0	0	0	0	Stop	4	Gnd	0	8
1	0	0	1	1/4	3	÷3 Pin 9	1	9
2	0	1	0	1/2	2	÷2 Pin 9	2	A
3	0	1	1	3/4	1	÷3 Pin 9	3	B
4	1	0	0	Full	15	+5V	4	C
5	1	0	1	Stop	14	Gnd	5	D
6	1	1	0	Stop	13	Gnd	6	E
7	1	1	1	Stop	12	Gnd	7	F

Address:

Connections: D₀ - D₇ - 8 wires
 requires 10 +5V 1
 wires from upper Power Gnd-Logic 1 (available Locally)
 torso Signal Gnd 1
 +12V unreg. 1 (available locally)
 Left & Right Speed 2 (" ")
 " " Direction 2 (" ")

$$\begin{aligned}
 74LS151 &= 29 \times 2 = 58 \\
 74LS00 &= 12 \times 1 = 12 \\
 74LS73 &= 20 \times 2 = 40 \\
 SN75446 &= 12 \times 1 = 12 \\
 555? &= 20 \times 1 = \frac{20}{142 \times .8} = 114 \text{ MA Load}
 \end{aligned}$$