Addressing   11-5-82

Hexadecimal decoder (1 of 16) - 4 inputs

Need to address !

Actual # needed		
3	13	Motors
1	13	Motor position sensors
	2	Speech synthesis
	12	Bumbers (the 8 main bumpers could be serviced by $2-23-87$
	12	Ultra sonic , Light sensors, sound sensors 1 address
30	52	

$$
\begin{array}{r}
3 \text{ Hex decoders} - \\
16\overline{)52} \\
\underline{48} \\
4
\end{array}
$$

4 Hex decoders will give 64 addresses

Octal decoder   111 - 3 of 8

Hex decoder 74154 (276-1834 RS)

G_1 & G_2 can be used to select one of 4 Hex dec.

00 XXXX
01
10
11
───────────   Address decoding

$D = 13 = 1101$

$D000 = 1101,0000,0000,0000$

$1101,0000,00XX,XXXX$

X = Functioning Address in Hex decoders