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CONTENTS

1 Hardware Setup 1

Abstract—A Toy car is controlled using bluetooth and google voice recognition software.

1 HARDWARE SETUP

- 1.1 Assemble the motors, chassis and wheels to build the toy car.
- 1.2 Stick the breadboard to the chassis of the toy car.
- 1.3 Stick a 9V battery to the breadboard and connect the positive and negative terminals to extreme ends of the breadboard.
- 1.4 Stick a 9V battery to the breadboard and connect the positive and negative terminals to extreme ends of the breadboard.
- 1.5 Provide 9V to the supply pin of the Arduino.
- 1.6 Plug the L293D motor driver IC in Fig. 1.6 on the breadboard.

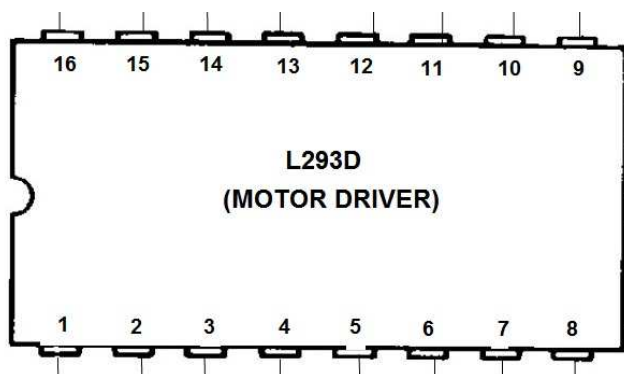


Fig. 1.6

- 1.7 Connect the L293D pins according to Table 1.7.

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Power	L293D			
9V	1	8	9	16
GND	4	5	12	13

Arduino	D2	D3	D4	D5
L293D	2	7	10	15

Arduino	D0	$\frac{2}{3}D1$	5V	GND
HC05	TX	RX	Vcc	GND

Motor	+		-	
L293D	3	11	6	14

TABLE 1.7

Arduino	D0	$\frac{2}{3}D1$	5V	GND
HC05	TX	RX	Vcc	GND

TABLE 1.8

- 1.8 Connect the HC05 pins according to Table 1.8.