

# Project 3 Parts

ITEM	QTY	REFDES	DESCRIPTION	DEVICE
1	9	Q1, Q11, Q12, Q21, Q22, Q31, Q32, Q41, Q42	MOSFET N-CH 60V 6.9A SOT223	ZXMN6A09GTA
2	4	Q13, Q23, Q33, Q43	MOSFET P-CH 40V 6.4A SOT223	ZXMP4A16GTA
3	1	D3	Infrared Emitters 80mW/sr 1.7V IR LED	QED223
4	2	DQ1, DQ2	Phototransistors 4mA PHOTO TRANS	QSD123
5	1	J14	CONN UNSHROUDED HEADER VERT THRU HOLE 3x1POS	77311-118-03LF
6	1	J5	CONN UNSHROUDED HEADER VERT THRU HOLE 2x3POS	67997-206HLF
7	1	J9	CONN UNSHROUDED HEADER VERT THRU HOLE 2x5POS	67997-210HLF
8	2	J1BJ3B, J2BJ4B	CONN UNSHROUDED HEADER VERT THRU HOLE 2x10POS	67996-220HLF
9	1	JF61	CONN HEADER FEMALE 2x5 POS 0.1" DL TIN	929975-01-05-RK
10	4		Standoffs & Spacers 5/8 LNGTH 4-40 STD FML HEX STANDOFF	1902F
11	4		NYLON MACHINE SCREW PAN PHILLIPS 4-40	NY PMS 440 0038 PH
12	4		MACHINE SCREW PAN PHILLIPS 4-40	PMS 440 0050 PH
13	1	J50	CONN RECEPT 5POS 26AWG MTA100	3-640442-5
14	2	J21, J43	CONN HEADER 2POS .100 R/A TIN	22-05-3021
15	1	J50	CONN HEADER 5POS .100 R/A GOLD W/BLOCK	0022-12-2054
	4"		HOOK-UP STRND 26AWG BLACK 100'	3049 BK005
	4"		HOOK-UP STRND 26AWG RED 100'	3049 RD005
	4"		HOOK-UP STRND 26AWG BLACK 100'	3049 BK005
	4"		HOOK-UP STRND 26AWG RED 100'	3049 RD005
	4"		HOOK-UP STRND 26AWG BLACK 100'	3049 BK005
16	2	J21, J43	CONN 2P 26AWG TIN CLSD W/O TAB W/BLOCK	3-640442-2
	8.5"		HOOK-UP STRND 26AWG BLACK 100'	3049 BK005
	8.5"		HOOK-UP STRND 26AWG RED 100'	3049 RD005
17	2		<u>120:1 Mini Plastic Gearmotor Offset 2mm Spline Output</u>	Motor
18	1		<u>2mm Shaft Adapter for LEGO Wheels (Pair)</u>	Lego Adapter