

Turntable / FY controller  
 MGV145  
 Bill Of Materials

Revised: March 18, 2011

Qty	Reference	Part	
1	R1,R19	1 KOhm	
1	R2	2,7 KOhm	
2	R3,R4	0.47 Ohm 2W	
1	R5	47 KOhm	
5	R6..R9,R22	22 KOhm	
4	R10..R13	33 Ohm	
6	R14..R18,R21	10 KOhm	
1	R20	470 Ohm	
1	C1	ELCO 4,700/35	
1	C2	ELCO 100 uF 35V radial	
1	C3	ELCO 1000 uF 25V	
4	C4,C5,C6,C10	100 nF	
1	C7	33 nF	
2	C8,C9	15 pF	
1	C11	ELCO 10 uF 16V radial	
1	P1	Trimmer 10 KOhm	
1	Led1	LED 3mm	
8	D1..D8	DIODE 1N5818	
1	D9	Diode 1N5822	
2	D11,D12	DIODE 1N4148	
1	D13	DIODE BAT85	
1	VR1	LM2576t-adj OR UTC p3596L	
1	VR2	7805 TO-220	
1	U1	PIC16F873A with socket Dil-28small	
1	U2	L297 with socket Dil-20	
1	U3	L298	
1	U4	LTV844 Or 2xLTV824 with socket dil-16	
1	X1	crystal 20 Mhz	
1	JP1	3 pin header + jumper	
1	GR1	KBU6G bridge rectifier	
4	GR2,GR3,GR4,GR5	B80C1500 rund bridge rectifier	
1	J1	AKL 230/04 + AKL 249/04	
2	J2,I2C1	PSS254/5G	
1	J4	PSS254/3G	
3	J5,J6,J8	PSS 254/10G	
1	J7	PSS254/8G	
2	K1,K2	RELAIS OMRON G5V-1 or equiv.	
1	eep1	3 pin header with jumper	
1	L1	Inductor 100 uH	FED100
1	F1	Fuse	PFRA185
1	F2	Fuse	PFRA050
1	Cooling		V PR127/94-M3
3	Mounting Clips		MC 725
4	Supports		DA4 12 mm
4	screws	M4 x 10	
4	Connector with pins	Connection to MGV50	PSK 254/10W
1	Connector with pins	Connection stepper motor	PSK 254/5W
1	Connector with pins	Connection zero switch	PSK 254/3W

**Important !!!!!**

**For Power IC and Regulators:**

**First mount cooling device with screws, then insert IC and regulators, bending wires so that they are flat to cooling, then fix clamps to hold IC's and after that solder IC's.**