

**GF-290 SERVICE
MANUAL
BILL OF
MATERIALS**

GF-290 **PARTS BOM**TO FROM ENG/

DATE : 2005/3/19.

REV : 02.

PART NO	DESCRIPTION	QTY	REMARK	<input type="checkbox"/>
100-F2902010	MAIN PCB ASS'Y	1		
100-F2902020	FRONT PCB ASS'Y	1		
100-F2902030	VOLUME PCB ASS'Y	1		
100-F2902040	LAMP PCB ASS'Y	1		
100-LT98ES02	CD MOTOR PCB ASS'Y	1		
100-A2002020	CD PCB ASS'Y	1		
100-M9903080	M-990 PHONO SPEED PCB ASS'Y	1		
100-M9903090	PHONO SPEED SW. PCB ASS'Y	1		<input type="checkbox"/>
062-GF290001	MAIN PCB 165x190MM 94-V0 REV:00.	1		A
-	VOLUME PCB	(1)		
-	LAMP PCB	(1)		
062-GF290002	FRONT PCB 148x52MM 94-HB REV:00.	1		A
* 062-SLA20003	CD PCB 94-V0 REV:02 121MMx115MM	1		A
062-LT98ES02	CD MOTOR PCB	1		D
062-0M990000	M-990 PHONO SPEED PCB REV:02.	1		B
-	PHONO SPEED PCB	(1)		
-	PHONO SPEED SW. PCB	(1)		
066-05000350	JUMPER WIRE 3.5MM	1	J040.	A
* 066-05000500	JUMPER WIRE 5MM	23	J1.4.7.8.10.25.403.404.405.406.410.03.09.014. J015.016.018.025.031.035.037.038.039.	A
066-05000600	JUMPER WIRE 6MM	8	J3.6.9.29.010.011.012.013.	A
* 066-05000750	JUMPER WIRE 7.5MM	20	J5.401.402.409.02.04.06.07.08.019.020.021. J022.024.027.028.030.032.033.034.	A
* 066-05001000	JUMPER WIRE 10MM	21	J2.11.13.14.15.16.17.18.19.21.22.23.24.27.30. J201.407.408.017.023.029.	A
* 066-05012500	JUMPER WIRE 12.5MM	4	J12.20.26.28.31.	A
* 066-05022500	JUMPER WIRE 22.5MM	1	J31.	A
066-05015000	JUMPER WIRE 15MM	2	J05.026.	A
068-1A010051	RESISTOR 1/4W 1 OHM J	3	R95.100.055.	A
068-1A047051	RESISTOR 1/4W 4.7 OHM J	1	R39.	A
068-1A100051	RESISTOR 1/4W 10 OHM J	1	R060.	A
068-10330051	RESISTOR 1/4W 330 OHM J	2	R35.96.	A
068-10680051	RESISTOR 1/4W 680 OHM J	1	R97.	A
068-11100051	RESISTOR 1/4W 1K OHM J	1	R501(<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> SHP2R <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> .	B
068-11150051	RESISTOR 1/4W 1.5K OHM J	1	R502.	B
068-11330051	RESISTOR 1/4W 3.3K OHM J	(1)	R501(<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> WEG-530TD-2F <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> .	B
068-11360051	RESISTOR 1/4W 3.6K OHM J	1	R503(<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> SHP2R <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> .	B
068-13015051	RESISTOR 1/4W 15K OHM J	(1)	R503(<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> WEG-530TD-2F <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> .	B
068-1A100053	RESISTOR 1/6W 10 OHM J	7	R044.045.046.047.048.049.050.	A
068-1A220053	RESISTOR 1/6W 22 OHM J	1	R025.	A
068-1A820053	RESISTOR 1/6W 82 OHM J	2	R405.07.	A
068-10150053	RESISTOR 1/6W 150 OHM J	1	R54.	A
068-10180053	RESISTOR 1/6W 180 OHM J	5	R48.49.75.76.033.	A
068-10330053	RESISTOR 1/6W 330 OHM J	1	R18.	A
068-10390053	RESISTOR 1/6W 390 OHM J	1	R404.	A
068-10560053	RESISTOR 1/6W 560 OHM J	5	R6.40.87.103.403.	A
068-10680053	RESISTOR 1/6W 680 OHM J	1	R402.	A
068-10820053	RESISTOR 1/6W 820 OHM J	2	R5.72.	A
068-11100053	RESISTOR 1/6W 1K OHM J	12	R12.15.19.21.23.25.27.67.68.015.039.040.	A
068-11150053	RESISTOR 1/6W 1.5K OHM J	4	R77.78.105.106.	A
068-11180053	RESISTOR 1/6W 1.8K OHM J	3	R406.407.408.	A
068-11220053	RESISTOR 1/6W 2.2K OHM J	5	R3.8.42.71.101.	A
068-11270053	RESISTOR 1/6W 2.7K OHM J	1	R37.	A
068-11330053	RESISTOR 1/6W 3.3K OHM J	2	R2.051.	A
068-11360053	RESISTOR 1/6W 3.6K OHM J	2	R33.34.	A
068-11470053	RESISTOR 1/6W 4.7K OHM J	9	R50.51.93.99.107.108.035.036.037.	A
068-11560053	RESISTOR 1/6W 5.6K OHM J	3	R026.058.059.	A
068-11680053	RESISTOR 1/6W 6.8K OHM J	3	R11.13.91.	A
068-11820053	RESISTOR 1/6W 8.2K OHM J	2	R83.84.	A

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068-13010053	RESISTOR 1/6W 10K OHM J	31	R9.16.17.20.22.24.26.28.36.38.43.65.66.79.80.	A
			85.86.88.89.94.98.102.011.012.013.027.041.	
			042.043.053.054.	
068-13011053	RESISTOR 1/6W 11K OHM J	1	R401.	A
068-13013053	RESISTOR 1/6W 13K OHM J	1	R038.	A
068-13015053	RESISTOR 1/6W 15K OHM J	2	R010.016.	A
068-13018053	RESISTOR 1/6W 18K OHM J	5	R57.58.69.70.030.	A
068-13022053	RESISTOR 1/6W 22K OHM J	8	R10.14.029.031.032.052.057.061.	A
068-13027053	RESISTOR 1/6W 27K OHM J	1	R020.	A
068-13033053	RESISTOR 1/6W 33K OHM J	2	R1.29.	A
068-13039053	RESISTOR 1/6W 39K OHM J	4	R02.03.04.05.	A
068-13047053	RESISTOR 1/6W 47K OHM J	12	R7.41.44.45.55.56.92.104.201.202.014.023.	A
068-13056053	RESISTOR 1/6W 56K OHM J	2	R81.82.	A
068-13068053	RESISTOR 1/6W 68K OHM J	1	R017.	A
068-13100053	RESISTOR 1/6W 100K OHM J	12	R4.30.31.32.46.47.52.53.01.06.019.024.	A
068-13120053	RESISTOR 1/6W 120K OHM J	7	R61.62.63.64.018.021.022.	A
068-13470053	RESISTOR 1/6W 470K OHM J	1	R90.	A
068-15010053	RESISTOR 1/6W 1M OHM J	6	R59.60.73.74.028.056.	A
092-30100000	S.F.R 1KB <UPRIGHT SMALL SIZE>□□□□□□□□	3	VR501.VR502.VR503(□□□□□SHP2R □□□□	B
092-30300000	SFR 3KB PA0630-VA1-B302HR	(1)	SFR502.(□□□□□WEG-530TD-2F □□□□	B
092-30470000	SFR 4.7KB PA0630-VA1-B472HR	(2)	SFR501.SFR503.(□□□□□WEG-530TD-2F □□□□	B
070-00300502	CERAMIC CONDENSER 3PF 50V NPO C	1	C8.	A
070-00400502	CERAMIC CONDENSER 4PF 50V NPO C	2	C10.01.	A
070-02000502	CERAMIC CONDENSER 20PF 50V NPO J	1	C6.	A
070-02200502	CERAMIC CONDENSER 22PF 50V NPO J	2	C065.066.	A
070-02500502	CERAMIC CONDENSER 25PF 50V NPO J	1	C7	A
070-03000502	CERAMIC CONDENSER 30PF 50V NPO J	4	C1.2.30.31.	A
070-11000502	CERAMIC CONDENSER 100PF 50V NPO J	1	C20	A
070-11500502	CERAMIC CONDENSER 150PF 50V NPO J	1	C021.	A
070-30100505	CERAMIC CONDENSER 0.001UF 50V Y5P K	4	C3.9.34.35.	A
070-30220505	CERAMIC CONDENSER 0.0022UF 50V Y5P K	1	C020.	A
070-30330505	CERAMIC CONDENSER 0.0033UF 50V Y5P K	1	C010.	A
070-31000506	CERAMIC CONDENSER 0.01UF 50V Z5U M	3	C13.23.24.	A
070-32000507	CERAMIC CONDENSER 0.02UF 50V Y5U M	2	C41.42.	A
070-32200507	CERAMIC CONDENSER 0.022UF 50V Y5U M	10	C32.33.43.44.45.46.47.48.49.50.	A
070-33300507	CERAMIC CONDENSER 0.033UF 50V Y5U M	3	C14.019.026.	A
070-34700507	CERAMIC CONDENSER 0.047UF 50V Y5U M	1	C024.	A
070-36800507	CERAMIC CONDENSER 0.068UF 50V Y5U M	1	C022.	A
070-50100507	CERAMIC CONDENSER 0.1UF 50V Y5U M	27	C4.5.12.15.25.05.06.08.016.017.027.028.029.	A
			030.031.032.033.034.035.036.037.038.039.040.	
			041.044.045.	
071-30101001	MYLAR CONDENSER 0.001UF 100V J	11	C26.27.36.37.07.013.014.015.018.042.043.	A
071-31001001	MYLAR CONDENSER 0.01UF 100V J	5	C21.03.04.012.023.	A
071-31501001	MYLAR CONDENSER 0.015UF 100V J	4	C16.17.18.19.	A
071-32201001	MYLAR CONDENSER 0.022UF 100V J	2	C38.39.	A
071-33901001	MYLAR CONDENSER 0.039UF 100V J	2	C28.29.	A
072-A0100501	ELEC.CONDENSER 0.1UF/50V M	1	C99.	A
072-A0220501	ELEC.CONDENSER 0.22UF/50V M	1	C53.	A
072-A0470501	ELEC.CONDENSER 0.47UF/50V M	3	C61.09.025.	A
072-A1000501	ELEC.CONDENSER 1UF/50V M	12	C54.62.63.64.65.66.82.83.86.87.011.050.	A
072-A2200501	ELEC.CONDENSER 2.2UF/50V M	1	C051.	A
072-A3300501	ELEC.CONDENSER 3.3UF/50V M	1	C69.	A
072-A4700501	ELEC.CONDENSER 4.7UF/50V M	15	C67.58.60.71.72.76.77.78.79.84.85.91.046.062	A
			C063.	
072-01000251	ELEC.CONDENSER 10UF/25V M	2	C56.59.	A
072-04700161	ELEC.CONDENSER 47UF/16V M	15	C55.70.74.75.047.048.049.052.056.057.059.060.	A
			061.064.067.	
072-04700251	ELEC.CONDENSER 47UF/25V M	1	C88.	A
072-11000161	ELEC.CONDENSER 100UF/16V M	9	C51.52.67.73.80.81.89.97.054.	A
072-11000251	ELEC.CONDENSER 100UF/25V M	1	C90.	A
072-12200161	ELEC.CONDENSER 220UF/16V M	8	C68.95.96.100.053.055.058.432(CASS MOTOR).	A-7.D-1
072-30100161	ELEC.CONDENSER 1000UF/16V M	2	C93.94.	A
072-30100251	ELEC.CONDENSER 1000UF/25V M	2	C92.101.	A
072-30470251	ELEC.CONDENSER 4700UF/25V M	1	C98.	A
081-30107001	CERAMIC FILTER L10.7MA5-A 3PIN□□□□□	2	CF2.CF4.	A

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081-04550000	CERAMIC FILTER SFU455KB 3PIN	1	CF1	A
093-11070001	CERAMIC FILTER JT10.7MG18-A 2PIN	1	CF3	A
093-11693440	XTAL 16.9344MHz	1	X01.	A
078-08500315	FM RF COIL 3.5T 0.8*5.0*3.5T	1	L1	A
078-08500215	FM OSC COIL 2.5T 0.8*5.0*2.5T	2	L2.L3	A
078-05301952	FILTER COIL ϕ 0.5MM* ϕ 3.0MM*19.5T	1	L8	A
095-00100001	INDUCTOR 10UH 0.5W	4	L7.L01.L02.L03.	A
096-GF180010	AM BAR ANT COIL <102:10T> 100MM*3,120MM*1	1	L4	B
079-GF100210	AM OSC COIL <RED>	1	L5	A
079-GF100010	AM IFT COIL <BLACK>	1	L6	A
075-00211101	IC:TA2111N	1	IC1.	A
075-00401301	IC:TC4013BP	1	IC3.	A
075-00316112	IC LA3161	1	IC5.	A
075-00023300	IC PT233T	1	IC2.	A
075-00780801	IC AN7808	1	IC4	B
075-00925923	IC:KA9259D	1	IC01.	B
075-00922639	IC:S1J9226	1	IC02.	B
075-00931C39	IC:S5L931C	1	IC03.	B
* 076-00A73300	TRANSISTOR 2SA733.	2	Q3.07.	A
076-00C94500	TRANSISTOR 2SC945	19	Q1.2.4.6.7.8.9.10.11.12.13.14.17.18.20.04.08. Q09.010.	A
075-00462712	IC:LA4627	1	IC6.	A
076-0C200100	TRANSISTOR 2SC2001L	2	Q05.06.	A
076-00B54400	TRANSISTOR 2SB544F	3	Q5.19.01.	A
076-00D40000	TRANSISTOR 2SD400	1	Q16.	A
076-00D88200	TRANSISTOR 2SD882	1	Q15.	B
077-10400201	DIODE 1N4002.	8	D19.20.21.22.23.24.25.26.	A
077-00414801	DIODE 1N4148	26	D1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18. 01.02.03.04.05.08.09.010.	A
077-3004A20H	ZENER DIODE 3.6V 0.5W	1	ZD1.	A
077-3004B20H	ZENER DIODE 3.9V 0.5W	1	ZD01.	A
077-3005C20H	ZENER DIODE 5.2V 0.5W	1	ZD2.	A
* 077-3012A20H	ZENER DIODE 12.0V 0.5W	1	ZD3.	A
082-10240100	2P CONNECTOR BASE P=2.5MM HL2423	1	CN3.	A
082-10300100	3P CONNECTOR BASE P=2.0MM HL2415	2	CN2.CN5.	A
082-10340100	3P CONNECTOR BASE P=2.5MM HL2423	2	CN1.CN6.	A
082-10440100	4P CONNECTOR BASE P=2.5MM HL2423	1	CN501.	B
082-10540100	5P CONNECTOR BASE P=2.5MM HL2423	1	CN502.	B
082-10500100	5P CONNECTOR BASE P=2.0MM HL2415	1	CN05.	A
082-20500103	5P CONNECTOR BASE P=2.0MM TYPE-90*HL2415	1	CN04.	A
082-10600100	6P CONNECTOR BASE P=2.0MM HL2415	1	CN06.	A
082-20600103	6P CONNECTOR BASE P=2.0MM TYPE-90*HL2415	1	CD MOTOR PCB	D
082-10700100	7P CONNECTOR BASE P=2.0MM HL2415	1	CN7.	A
082-10800100	8P CONNECTOR BASE P=2.0MM HL2415	1	CN402.	A
082-11200103	12P CONNECTOR BASE P=2.0MM TYPE-90*HL2415	1	CN01.	A
082-21600305	FPC CONNECTOR 16PIN P=1.0MM	1	CN07.	B
094-03070201	ORANGE LED ϕ 2MM <164AD>	5	LED401.402.403.404.405.<AS SL-D80>	E
094-02080202	CD LED DISPLAY <AS GF-300>	1	LED DISPLAY	B
097-01000601	PILOT LAMP 10V 60MA ϕ 4*19MM.	1		B
090-22510022	FUSE T1AL 250V "UL/CSA/VDE"MARK	1	FUSE2.	A
090-22520022	FUSE T2AL 250V "UL/CSA/VDE"MARK	1	FUSE1.	A
056-10080001	FERRITER BAR 10*80MM	1	FOR AM ANT COIL <AS SW-150>	B
069-F6202000	VR.50KB*2 W/SW RD1210SGAOX-VA2-B503-Q0-FR200A120	1	VR201.	B
063-08699000	TACT SWITCH H=4.3MM	9	SW401.402.403.404.405.406.407.408.409.	B
063-GF100110	PHONO SPEED SW. 2P3T	1	SW501.	B
063-0LT98400	LEAF SWITCH	1	TO CD MOTOR PCB	D
034-20040020	BRASS EYELET DIA ϕ 2.0*4MM	4	AC WIRE	A
034-22040020	RIVET ϕ 2.2*4MM	1	TO DIAL CORD	C
038-12202900	CASSETTE MECHA	1	NEW	P
039-A2000132	CD PICK UP:CMS-B35VG6U	1		D
040-01000310	PLAYER ASS'Y <3 SPEED DC=9V>	1	HT-1000	E
052-0LT98000	MAGNET	1	AS LT-98ES	D
053-F300N000	TUNER P.V.C <HF443CAB02-A06>	1		B
085-0LT98050	MOTOR RF-500TB-12560	1		D
089-00000001	UL1007 AWG26# L=1500MM BLACK	1	FM ANT.	C

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067-F2900010	UL1007 26AWG L=120MM RED	1	CASS DECK MOTOR +B TO LEAF SWITCH.	P
067-F2901020	UL1007 26AWG 3P P=2.0MM L=240/240/250MM	1	CASS DECK TO MAIN PCB CN5.	P
067-A2002020	UL1007 AWG28# 6P5WIRE P=2.0MM L=220MM	1	CD PCB CN05 TO CD DECK	D
067-A2002010	UL1007 AWG28# 6PIN P=2.0MM L=250MM	1	CD PCB CN06 TO CD DECK	D
088-F2900010	UL2468 T/C 26AWG 2PINS L=130MM	1	PLAYER MOTOR TO SPEED PCB CW502.	B
088-F2901020	UL2468 26AWG 2PINS P=2.5MM L=150MM HL2423	1	LAMP PCB CW3 TO MAIN PCB CN3.	B
088-F2901030	UL2468 T/C 26AWG 3P2WIRE P=2.0MM L=200MM HL2415	1	SPEAKER <R> TO MAIN PCB CN2.	E
088-F2901040	UL2468 T/C 26AWG 3P2WIRE P=2.5MM L=450MM HL2423	1	SPEAKER <L> TO MAIN PCB CN1.	E
088-F2901050	UL2468 T/C 26AWG 4PINS P=2.5MM L=230MM HL2423	1	SPEED SW. PCB CW501 TO PLAYER PCB CN501.	B
088-F2901070	UL2468 T/C 26AWG 8PINS P=2.0MM L=140MM HL2415	1	FUNCTION KEY PCB CW402 TO MAIN PCB CN402.	B
088-F2901080	UL2468 T/C 26AWG 12PINS P=2.0MM L=180MM HL2415	1	FUNCTION KEY PCB CW401 TO CD PCB CN01	B
088-G3802080	AWM20798 80C 60V VW-1 A-TYPE 16P P=1.0MM L=140MM	1	CD PCB CN07 TO CD PICK UP	D
091-F2901010	UL2547 26AWG 3PINS P=2.5MM L=260MM BLACK	1	R/P HEAD TO MAIN PCB CN6.	P
091-F2903021	UL2547 #28/UL1007 #26 5P P=2.0MM L=290MM BLACK	1	MAIN PCB CW5 TO CD PCB CN04.	B
091-F2903030	UL2547 #28/UL1007 #26 5P P=2.5MM L=270MM BROWN	1	MAIN PCB CW6 TO PLAYER SPEED PCB CN502	B
091-F2903040	UL2547 28#+UL1007 26# 7P P=2.0MM L=170MM HL2415	1	VOLUME PCB CW7 TO MAIN PCB CN7.	B
022-12604032	SCREW φ2.6×4MM PM ZMC HD	2	PNONO SPEED SW.TO SPEED BKT*2.	B
023-52606032	SCREW φ2.6×6MM BW ZMC HD	1	FOR CD DECK	D
026-22605022	SCREW φ2.6×5MM BTT ZMC HD	1	CASS DOOR BUTTON BKT TO CASS DECK*1.	P
026-82608022	SCREW φ2.6×8MM SP/PTT ZMC HD	1	DIAL DRUM(B)*1.<SPRING WASHER>	C
024-22610033	SCREW φ2.6×10MM BA BLACK HD	4	CASS DECK COVER TO CASS DECK PANEL*4.	E
* 022-23006032	SCREW φ3×6MM BM ZMC HD	26	TUNER CHASSIS BKT TO MAIN PCB L/R BKT*4.	C-15 E-1
			TUNER CHASSIS BKT TO MAIN PCB*3.	D-10
			MAIN PCB TO PCB L/R BKT*3.	
			PULLEY BKT TO TUNER CHASSIS BKT*1.	
			TUNER CHASSIS BKT TO VOLUME PCB*2.	
			TUNER CHASSIS BKT TO LAMP PCB*2.	
			R/L CD BKT TO CD BOTTOM BKT*6.	
			CD PCB TO CD DECK BKT*4.	
			CD PCB CONNECT BRACKET TO CD DECK BKT R*1.	
022-23008032	SCREW φ3×8MM BM ZMC HD	1	CD PCB CONNECT BRACKET TO MAIN PCB BKT R*1.	E
* 024-23008032	SCREW φ3×8MM BA ZMC HD	12	CD BKT R/L TO CD DECK*4.	D-4 E-6
			CD CONTROL PCB TO PANEL*6.	B-2
			AN7809*1.2SD882*1.	
025-00018002	FIXING SCREW φ3×9MM ZMC HD	2	TUNER PULLEY TO PULLEY BKT*1.	C
			TUNER PULLEY TO TUNER CHASSIS*1.	
024-23010032	SCREW φ3×10MM BA ZMC HD	8	CD BKT L/R TO CD DOOR FRAME*4.	E-6
			PHONO SPEED SW.BKT TO SPEED SW.COVER*2.	□□-2
			TUNER CHASSIS TO FRONT PANEL*2.	
021-43008032	SCREW φ3×8MM PWT ZMC HD (PWφ=11.5MM)	6	FRONT PANEL TO CABINET*5.	E-5 D-1
			CD DECK USE*1.	
022-23010032	SCREW φ3×10MM BM ZMC HD	3	CASSETTE DECK HOLDER TO CASSETTE DECK*3.	P
024-13018032	SCREW φ3×18MM PA ZMC HD	2	CASS DECK COVER TO CASS DECK HOLDER*2.	P
024-43018032	SCREW φ3×18MM PWA ZMC HD	3	CASS DECK HOLDER TO CASS DECK BOARD*3.	E
026-13014022	SCREW φ3×14MM PTT ZMC HD	1	DIAL SHAFT TO TUNING CHASSIS*1.	C
* 024-43012033	SCREW φ3×12MM PWA BLACK HD	7	BACK BOARD TO WOODEN CABINET*7.	E
024-23509032	SCREW φ3.5×9MM BA ZMC HD	8	3" SPEAKER TO WOODEN*8.	E
022-44014032	SCREW φ4×14MM PWM ZMC HD	10	BOTTOM BOARD TO "L"-TYPE BKT*6.	E
			CD DECK BKT TO BOTTOM BOARD*4.	
026-44018022	SCREW φ4×18MM PWTT ZMC HD	3	AC CORD BKT TO BOTTOM BOARD*1.	E
			TRANSFORMER*2.	
012-05150300	METAL WASHER φ3MM×φ15MM×T0.5MM	1		C
025-0LT98002	SPECIAL SCREW	4	LT-98ES USE.	D
001-F2900100	TUNER PANEL	1	AS GF-280 TOOLS	E
002-LT980000	CD BASE	1		D
002-LT980100	CD LOADING TABLE	1		D
004-F2900200	TUNER KNOB	1	AS GF-280 TOOLS□□01/LOT□□□	E
004-F2900201	TUNER KNOB <□□□>	1	□GF-290 02/LOT□□□□□	E
004-F2900300	VOLUME KNOB	1	AS GF-280 TOOLS□□01/LOT□□□	E
004-F2900301	VOLUME KNOB <□□□>	1	□GF-290 02/LOT□□□□□	E
004-F2900100	CD FUNCTION KEY	1	AS GF-280 TOOLS	E
004-M9700000	SPEED SW. KNOBN <□□>	1	AS GF-300	□□
004-F2900400	CASSETTE DOOR BUTTON	1		P
005-02900200	CASSETTE DECK COVER	1		E
005-02900100	CASSETTE DECK PANEL	1		P

GF-290 PARTS BOM

006-02900000	CD DOOR	1		E
006-280S0100	CD DOOR FRAME	1	AS GF-280UL/CSA	E
008-0GP18001	DIAL PULLEY	2		C
008-0LT98000	CD BIG GEAR <A>	1		D
008-0LT98001	CD SMALL GEAR 	1		D
008-0LT98002	CD FLY GEAR <C>	1		D
008-0LT98003	CD BELT GEAR <D>	1		D
009-SD800000	FERRITER BAR HOLDER <□□□□>	2	FOR AM ANT	B
009-02900100	CASSETTE DECK HOLDER	1		P
010-02000200	DIAL DRUM <A>	1	AS GF-330	C
010-02000300	DIAL DRUM 	1	AS GF-330	C
010-02900100	NAME BADGE <SMALL>	1		□□
010-02900200	NAME PLATE	1	AS GF-280 TOOLS	□□
010-M9700000	SPEED SW. COVER <□□>	1	AS GF-330	□□
010-LT980000	CD DECK HOLDER	1		D
010-LT980100	CD DISC HOLDER	1		D
011-F2900100	MAIN PCB BRACKET L	1		C
011-F2900200	MAIN PCB BRACKET R	1		C
011-F2900300	TUNER CHASSIS BKT	1		C
011-F2900400	PULLEY BRACKET	1		C
011-F2900500	CASSETTE DOOR COVER	1		P
011-F2900600	CASSETTE DOOR BUTTON BRACKET	1		P
011-F2900700	CD PCB CONNECT BRACKET	1		E
011-F2900800	CD DECK BRACKET (LEFT)	1		D
011-F2900900	CD DECK BRACKET (RIGHT)	1		D
011-A2000700	CD DECK BRACKET (BOTTOM)	2	AS SL-A200	D
011-F1001040	SPEED SW.BRACKET	1	AS GF-180	B
011-21500100	POWER TRANS. PLATE	2		E
011-LT980000	YOKE	1	AS LT-98ES	D
011-02001500	AC CORD HOLDER	1		P
011-28000000	WOODEN BKT <L-TYPE>	3	FOR CASSETTE DECK BOARD	E
015-F6200000	CD WINDOW	1		E
015-F6200100	CD LENS (BROWN)	1		E
015-F6200200	DIAL WINDOW	1		E
015-F1000100	DIAL SCALE <NEW>	1		E
014-GF290001	CASSETTE DOOR SHAFT	1		P
014-00018000	DIAL SHAFT	1		C
014-GF100000	TUNER SHAFT	1		C
017-0GP18000	TUNER BUSH	1		C
029-07003021	E-RING φ3 ZMC	1		C
013-90000001	HEXAGON NUT P=0.75 M9	1		C
018-GF380000	HEAT SINK (POWER IC)	1	AS NP-380	B
018-05030000	HEAT SINK (TO IC7808)	2	IC:7808×1. 2SD882×1.	B
018-A2000100	CD HEAT SINK (TO KA9259)	1	FOR CD PCB USE	B
016-F2900100	WOODEN CABINET ASS'Y	1		E
037-F3000100	TOP COVER CUSHION	2	AS GF-300	□□
014-SW100000	ADAPTOR GUIDE <L240000018>	1	TO CABINET	□□
029-03004032	CS-RING <L6400000015>	1	TO CABINET	□□
010-GP180000	RECORD PLAYER BUSH (A)	2		□□
010-GP180100	RECORD PLAYER BUSH (B)	1		□□
011-F2900000	SIDE STAY ASS'Y	1	TO CABINET	□□
024-33010032	SCREW φ3×10MM KA ZMC HD	(2)	FOR CABINET SIDE STARY ASS'Y □□□□	-
024-23008032	SCREW φ3×8MM BA ZMC HD	(2)	FOR CABINET SIDE STARY ASS'Y □□□□	-
035-00018002	CUSHION (A) FOR PLAYER	2		E
035-00018012	CUSHION (B) FOR PLAYER	1		E
024-24012033	SCREW φ4×12MM BA BLK HD	4	CABINET RUBBER FOOT×4.	□□
037-KRA20100	RUBBER FOOT	4	AS LSK-2001□WOODEN CABINET×4)	□□
016-F2900300	CASSETTE DECK WOODEN BOARD HOLDER	1		E
030-00000002	AC CORD BUSH 4N-4	1		P
031-GP180000	DIAL DRUM SPRING	1	AS GF-330	C
031-F2900110	CASSETTE DOOR SPRING	2		P
033-02301015	BELT □□φ23.0MM □□1.5×1.5MM	1	AS LT-98ES	D
037-LT980001	CD RUBBER CUSHION SR(MATERIAL)60°<WHITE>	2	FRONT	D
037-LT980101	CD RUBBER CUSHION SR(MATERIAL)45°<BLUE>	2	BACK	D
061-STD80400	3" SPEAKER 4 OHM 20W	2	AS SL-A100	E

GF-290 PARTS BOM

042-GF290000	POLY FOAM	2	L/R□□	□□
042-GF200010	POLYFOAM (TURN TABLE)	1	AS GF-300	E
043-GP180000	POLYFOAM BLOCK (TURN TABLE) BAG 140×185MM	1	AS GF-300	E
043-F2900101	POLY BAG <SET> 780×630×T0.5MM	1		E
043-02000101	POLYBAG (I/B)240×360×0.07MM	1	AS GF-330	E
047-TEAC0011	GUARANTY SHEET	1		E
* 045-GF290010	SERIAL NO. LABEL	2		E
045-GF290020	DATE LABEL	1		E
045-D2150010	LASER CAUTION LABEL <TRIANGLE>	1		D
045-GF100010	CABINET LABEL□TOP COVER□	1	3 SPEED USE (AS GF-330)	□□
* 049-D2800000	PLAYER INSTRUCTION SHEET	1		E
* 049-GF300000	PLAYER CAUTION SHEET	1		E
050-GF290001	FRONT SOFT SHEET 640×470×T1.0MM <SET>	1		E
060-10961600	UL TUBE φ9.6×160MM	1		P
060-30300250	UL PVC TUBE φ3.0×25MM	1	FOR AM ANT	B
098-40200002	2MM DOUBLE TAPE (SONY WHITE)	100MM		E
098-90900002	9MM TERAOKA MASKING TAPE <YELLOW>	250MM		E
098-86000001	WHITE P.K.G TAPE	1100MM		E
098-81200001	12MM TRANSPARENT TAPE	60MM		E
098-61500001	UL TAPE <BLACK> 15×200MM	1	TO AC CORD	P
099-29000000	DIAL CORD φ0.5MM L=760MM	1		C
099-26000000	HEAT MELT PASTERN <WHITE>	6g		B-3 D-1
				E-2
099-16000000	HEAT SINK GREASE	1.5g	FOR IC04.IC05.Q11.	B
099-11000000	YELLOW ADHESIVES	4g		B-2 D-2
099-10000001	(UL)INDUSTRIAL ADHESIVES	4.0g		E
099-13000000	GREEN ADHESIVES	0.2g		C
099-14000000	YELLOW CANDLE	1.5g		C

□□□□□□□□

1□GF-290 (UL/CSA□□)

084-00800200	POWER TRANSFORMER 120V 60Hz	1	AS SL-D80 UL/CSA	P
087-00000007	AC CORD L=2000MM UL□□	1		P
016-F2900200	BACK BOARD <NEW>	1	UL/CSA□□□□	E
036-00000001	CLOSE END CONNECTOR	2	TO AC CORD	P
041-00000001	NYLON CLAMPER	7		C-1 P-1
				E-5
044-GF290010	CARTON CASE	1	UL/CSA□□□□	E
045-GF290011	SERIAL NO. LABEL (NEW)	1		E
046-GF290010	INSTRUCTION BOOK□ENGLISH□	1		E

2□GF-290 (□□□□□)

084-00800200	POWER TRANSFORMER 120V 60Hz	1	AS SL-D80 UL/CSA	P
087-00000007	AC CORD L=2000MM UL□□	1		P
016-F2900201	BACK BOARD <□□□□□>	1	□□□□□□□□	E
036-00000001	CLOSE END CONNECTOR	2	TO AC CORD	P
041-00000001	NYLON CLAMPER	7		C-1 P-1
				E-5
044-GF290020	CARTON CASE <□□□□□>	1	□□□□□□□□	E
045-GF290011	SERIAL NO. LABEL (NEW)	1		E
046-GF290011	INSTRUCTION BOOK□□□□/□□/□□□□□□	1	□□□□□□□□	E

3□GF-290 (UNI□□)

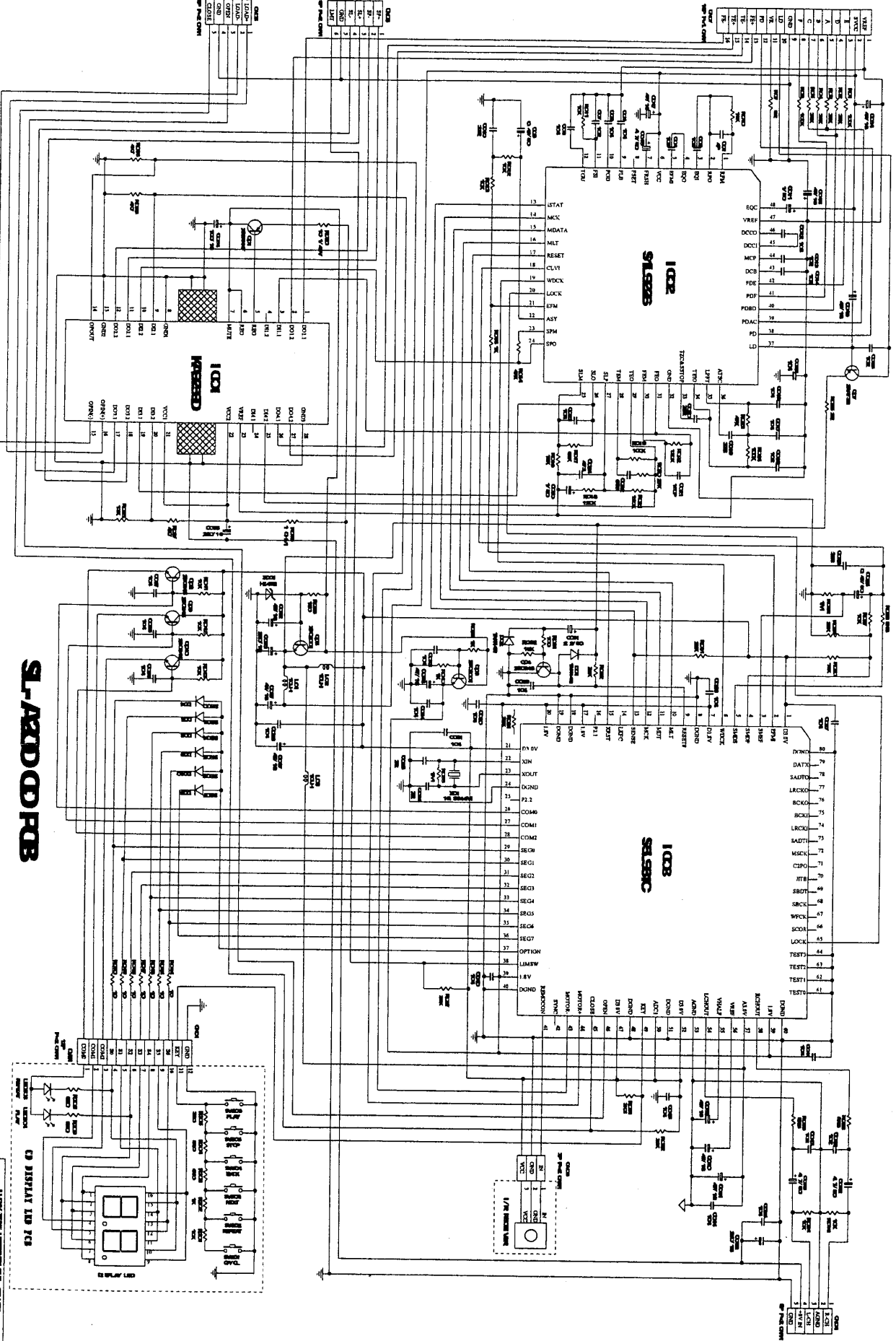
022-23008033	SCREW φ3×8MM BM BLACK HD	2	FOR AC POWER SWITCH.	P
016-F2900202	BACK BOARD <UNI□□>	1	UNI□□□□	E
041-00000001	NYLON CLAMPER	8		C-1 P-2
				E-5
044-GF290012	CARTON CASE <UNI□□>	1	UNI□□□□	E
045-GF290011	SERIAL NO. LABEL (NEW)	1		E
045-GF200090	LA LABEL (AS GF-300UNI)	1		E
045-GF200080	VOLTAGE CAUTION LABEL (AS GF-300UNI)	1	FOR AC CORD.	E
045-D2830010	CLASS 1 LASER LABEL	1	AS DC-D2830AUS	E
046-GF290012	INSTRUCTION BOOK□□□□□/□□□□□□□□	1	UNI□□□□	E
047-SLD90000	GUARANTY SHEET SERVICE STATION LIST (FOR MEXICO)	1		E
049-GF290000	VOLTAGE CAUTION SHEET	1	FOR I/B.	E
036-00000001	CLOSE END CONNECTOR	1	FOR AC CORD	P

GF-290 □□ PARTS BOM

060-50650200	HOT TUBE φ6.5*20MM	3	FOR AC CORD SW.	P
063-GF480300	AC POWER SLIDE SWITCH <PL13-022A12>	1	FOR AC WIRE	P
084-02900700	TRANSFORMER UNI 120/230V 50/60Hz	1	UNI□□□□□□	P
087-00000027	AC CORD UL/CSA□□ L=2000MM BLACK	1	UNI□□□□□□	P

- : 1. GF-290 UL/CSA □□□□□□□□CD□□SL-A200CD ASS'Y.
 2. GF-290□□□□□□□□□□□□□□CD□□SL-A200CD ASS'Y.
 3. GF-290 UNI □□□□□□CD□□SL-A200CD ASS'Y.
 4. □□□□**"□□□□□□□□□□□□□□□□

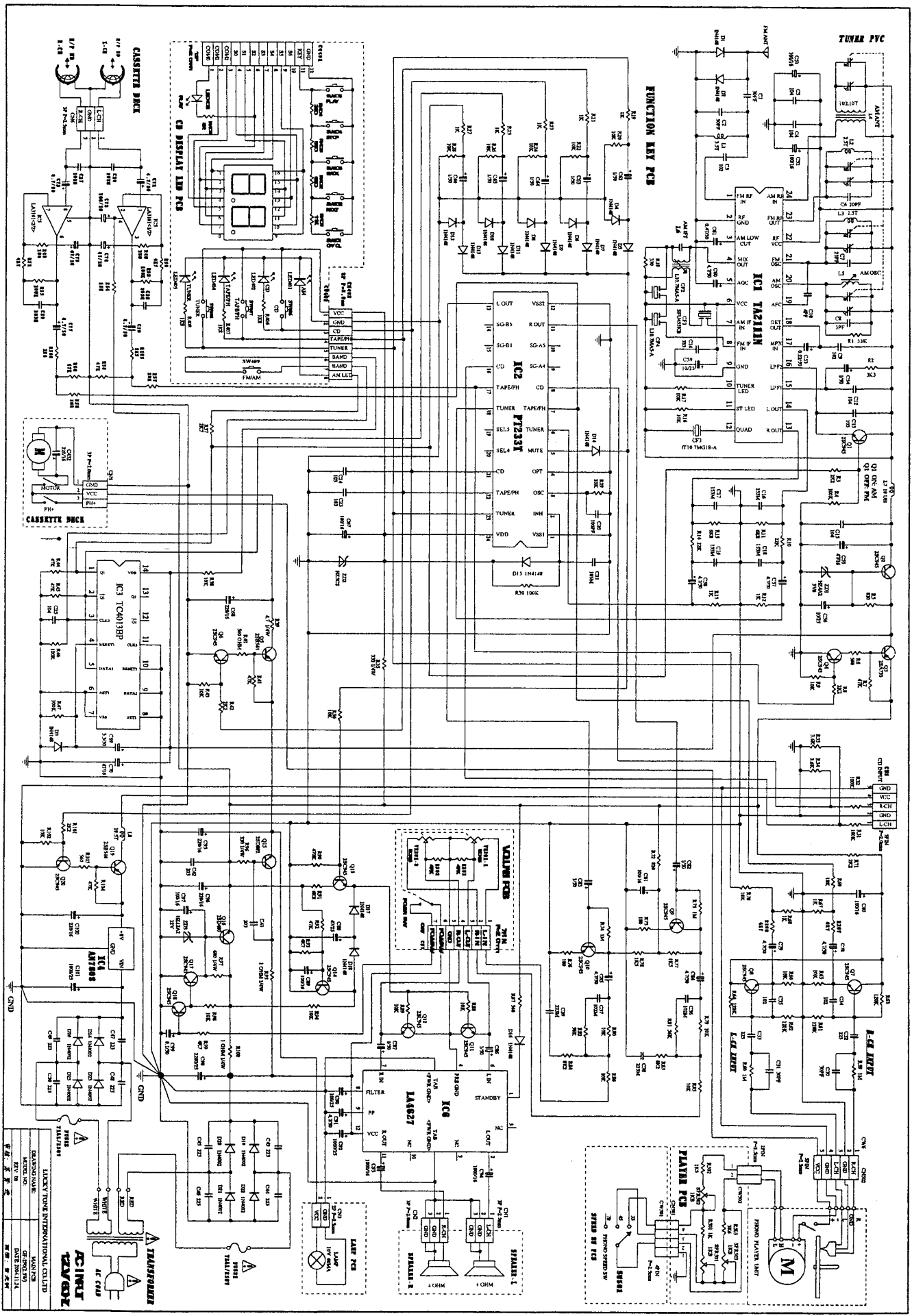
===== THE END =====



SL-ADD CD ROM

LISTEN THE LATEST ONE CD ROM

DATE	1999.12.10
DESIGNED BY	CHEN YUAN
REVISED	1.0
DATE	1999.12.10
DESIGNED BY	CHEN YUAN
REVISED	1.0
DATE	1999.12.10
DESIGNED BY	CHEN YUAN
REVISED	1.0



TA7231P
AC INPUT
LA6827
FT2331
TC9013BP
74LS00
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