

GF-290 SERVICE
MANUAL
BILL OF
MATERIALS

GF-290 □□ PARTS BOM

TO □□□.□□.□□.□□

FROM □ENG/□□□

DATE : 2005/3/19.

REV : 02.

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PART NO	DESCRIPTION	QTY	REMARK	□□
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		□□
062-GF290001	MAIN PCB 165×190MM 94-V0 REV:00.	1		A
-	VOLUME PCB	(1)		
-	LAMP PCB	(1)		
062-GF290002	FRONT PCB 148×52MM 94-HB REV:00.	1		A
* 062-SLA20003	CD PCB 94-V0 REV:02 121MM×115MM	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(□□□□□SHP2R □□□□.	B
068-11150051	RESISTOR 1/4W 1.5K OHM J	1	R502.	B
068-11330051	RESISTOR 1/4W 3.3K OHM J	(1)	R501(□□□□□WEG-530TD-2F □□□□.	B
068-11360051	RESISTOR 1/4W 3.6K OHM J	1	R503.(□□□□□SHP2R □□□□.	B
068-13015051	RESISTOR 1/4W 15K OHM J	(1)	R503(□□□□□WEG-530TD-2F □□□□.	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	C57.58.60.71.72.76.77.78.79.84.85.91.046.062	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 φ0.5MM*φ3.0MM*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.	A
			Q09.010.	
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.	A
			01.02.03.04.05.08.09.010.	
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 φ2MM <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*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 φ2.0*4MM	4	AC WIRE	A
034-22040020	RIVET φ2.2*4MM	1	TO DIAL CORD	C
038-12202900	CASSETTE MECHA DC:9V	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 ϕ 2.6*4MM PM ZMC HD	2	PNONO SPEED SW.TO SPEED BKT*2.	B
023-52606032	SCREW ϕ 2.6*6MM BW ZMC HD	1	FOR CD DECK	D
026-22605022	SCREW ϕ 2.6*5MM BTT ZMC HD	1	CASS DOOR BUTTON BKT TO CASS DECK*1.	P
026-82608022	SCREW ϕ 2.6*8MM SP/PTT ZMC HD	1	DIAL DRUM(B)*1.<SPRING WASHER>	C
024-22610033	SCREW ϕ 2.6*10MM BA BLACK HD	4	CASS DECK COVER TO CASS DECK PANEL*4.	E
* 022-23006032	SCREW ϕ 3*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 ϕ 3*8MM BM ZMC HD	1	CD PCB CONNECT BRACKET TO MAIN PCB BKT R*1.	E
* 024-23008032	SCREW ϕ 3*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 ϕ 3*9MM ZMC HD	2	TUNER PULLEY TO PULLEY BKT*1.	C
			TUNER PULLEY TO TUNER CHASSIS*1.	
024-23010032	SCREW ϕ 3*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.	$\square$ -2
			TUNER CHASSIS TO FRONT PANEL*2.	
021-43008032	SCREW ϕ 3*8MM PWT ZMC HD (PWP=11.5MM)	6	FRONT PANEL TO CABINET*5.	E-5 D-1
			CD DECK USE*1.	
022-23010032	SCREW ϕ 3*10MM BM ZMC HD	3	CASSETTE DECK HOLDER TO CASSETTE DECK*3.	P
024-13018032	SCREW ϕ 3*18MM PA ZMC HD	2	CASS DECK COVER TO CASS DECK HOLDER*2.	P
024-43018032	SCREW ϕ 3*18MM PWA ZMC HD	3	CASS DECK HOLDER TO CASS DECK BOARD*3.	E
026-13014022	SCREW ϕ 3*14MM PTT ZMC HD	1	DIAL SHAFT TO TUNING CHASSIS*1.	C
* 024-43012033	SCREW ϕ 3*12MM PWA BLACK HD	7	BACK BOARD TO WOODEN CABINET*7.	E
024-23509032	SCREW ϕ 3.5*9MM BA ZMC HD	8	3" SPEAKER TO WOODEN*8.	E
022-44014032	SCREW ϕ 4*14MM PWM ZMC HD	10	BOTTOM BOARD TO "L"-TYPE BKT*6.	E
			CD DECK BKT TO BOTTOM BOARD*4.	
026-44018022	SCREW ϕ 4*18MM PWTT ZMC HD	3	AC CORD BKT TO BOTTOM BOARD*1.	E
			TRANSFORMER*2.	
012-05150300	METAL WASHER ϕ 3MM* ϕ 15MM*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 $\square$ 01/LOT $\square$	E
004-F2900201	TUNER KNOB $\langle \square \rangle$	1	$\square$ GF-290 02/LOT $\square$	E
004-F2900300	VOLUME KNOB	1	AS GF-280 TOOLS $\square$ 01/LOT $\square$	E
004-F2900301	VOLUME KNOB $\langle \square \rangle$	1	$\square$ GF-290 02/LOT $\square$	E
004-F2900100	CD FUNCTION KEY	1	AS GF-280 TOOLS	E
004-M9700000	SPEED SW. KNOBN $\langle \square \rangle$	1	AS GF-300	$\square$
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-SLD80400	3" SPEAKER 4 OHM 20W	2	AS SL-A100	E

GF-290 PARTS BOM

042-GF290000	POLY FOAM	2	L/RD	
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)

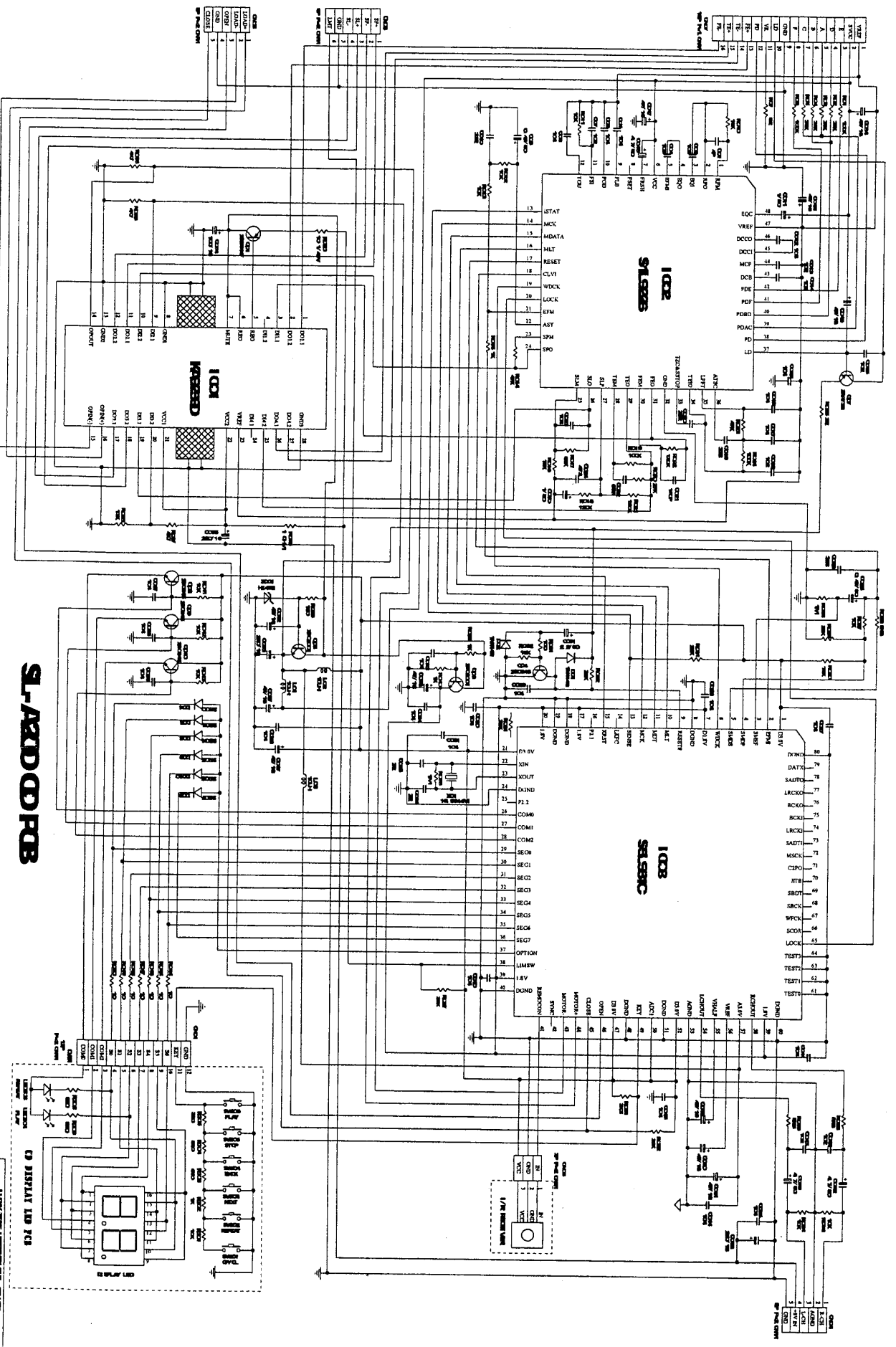
084-00800200	POWER TRANSFORMER 120V 60Hz	1	AS SL-D80 UL/CSA	P
087-00000007	AC CORD L=2000MM UL	1		P
016-F2900200	BACK BOARD <NEW>	1	UL/CSA	E
036-00000001	CLOSE END CONNECTOR	2	TO AC CORD	P
041-00000001	NYLON CLAMPER	7		C-1 P-1
				E-5
044-GF290010	CARTON CASE	1	UL/CSA	E
045-GF290011	SERIAL NO. LABEL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

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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



SL-ADD CD PCB

LIST THE LIBRARY ON CD			
DATE	NO.	CD NO.	CD NO.
REV	NO.	DATE	NO.
REV	NO.	DATE	NO.

