ALIGNMENT

TEST EQUIPMENT

Allow a minimum of 10 minutes warm-up for test equipment and the tuner to be tested.

Maintain rated line voltage.

FM Signal Generator (FM SG)

Oscillascope

AC Voltmeter

Distortion Meter

MPX Signal Generator (MPX SG)

Frequency Counter

AM Sweep Generator (AM SG)

DC Voltmeter

FM SECTION

GENERAL ALIGNMENT INSTRUCTION

Always observe response curve on oscilloscope during alignment procedure:

- Do not apply signal from FM or AM stations. Apply signal from generator only.
- Use of excessive signal from FM SG or AM SG can cause overloading of the tuner circuits. To properly align the tuner, adjust FM SG or AM SG output level control so that response curve on oscilloscope is not distorted.

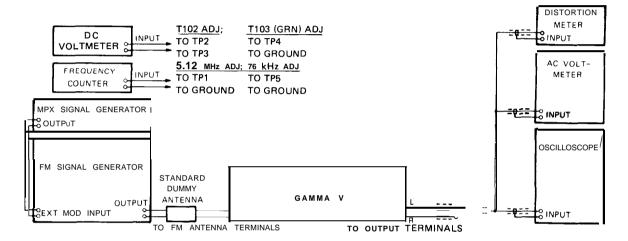


Figure 6. Test Equipment Hook-up

FREQUENCY SYNTHESIS TUNER SECTION

FM Front End Adjustment

This adjustment is factory preset and should not need readjustment.

5.12 MHz Crystal Controlled Oscillator Adjustment.

Set MAIN POWER switch (S1) to ON position and POWER switch (S2) to OFF position. Connect frequency counter to test point "TP 1" (Photo 7).

Adjust C917 (Photo 7) for 5.12 MHz ± 20 Hz.

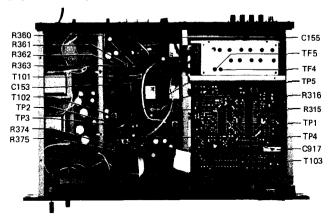


Photo 7. Adjustment Points

IF-AF SECTION

FM IF Alignment

STEP	FM SG FREQUENCY/ CALIBLATION	MODULATING FREQUENCY/ DEVIATION	SWITCHES OF THE TUNER	LED FREQUENCY DISPLAY	ADJUSTMENT POINT	PROCEDURE	REMARKS	
1		(No modulation)	A. DE-EMPHASIS to "NORMAL" B. MAIN POWER to "ON".	:	T102 (Photo 7)	Connect DC volt- meter to test points "TP2", "TP3" (Photo 7) and adjust for 0 V.		
2	98.1MHz/60dBµ	(No modulation)	C. POWER to "ON". D. MODE to "MONO". E. HI-BLEND to		T103 (Green Core) (Photo 7)	Connect DC volt- meter to test point "TP4" (Photo 7) and ground and adjust for 0 ± 50 mV.		
3			"OFF". F. IF BAND to "WIDE".	98.1MHz	T103 (Red Core) (Photo 7)	Adjust for minimum distortion.		
4		400Hz/ mono [±75kHz]			T101 (Photo 7)	Adjust for maximum		
5	98.1MHz/0-6dBµ	_	A~E. Same as above. F. IF BAND to "NARROW".	Same as above. F. IF BAND to		TF4, TF5 (Photo 7)	AC voltmeter deflection.	
6	98.1MHz/60dB "	10kHz/ mono [±75kHz]	A. DE-EMPHASIS to "25 μS". B~E. Same as above. F. IF BAND to "WIDE".		C155 (Photo 7)	Adjust for minimum distortion.		
7		510 [2754112]	A~E. Same as above. F. IF BAND to "NARROW".		C153 (Photo 7)	and then.		

FM MPX Alignment

STEP	FM SG FREQUENCY/ CALIBLATION	MODULATING FREQUENCY/ DEVIATION	SWITCHES OF THE TUNER	LED FREQUENCY DISPLAY	ADJUSTMENT POINT	PROCEDURE	REMARKS
1		(No modulation)	A. DE-EMPHASIS to "NORMAL". B. MAIN POWER to "ON". C. POWER to		R315 (Photo 7)	Connect frequency counter to test point "TP5" (Photo 7) and adjust for 76kHz ±70Hz.	
2		400Hz/stereo {main (R+L) & sub (L-R): ±67.5kHz/19kHz pilot: ±7.5kHz]	"ON". D. MODE to "STEREO". E. HI-BLEND to			Check that stereo lamp lights up and that audio outputs (left and right channel) are observed on scope when MUTING THRESHOLD knob is CCW.	
3	98.1MHz/60dBµ	19kHz pilot only: ±7.5kHz		98.1MHz	R316 (Photo 7)	Adjust for minimum 19kHz pilot leakage.	

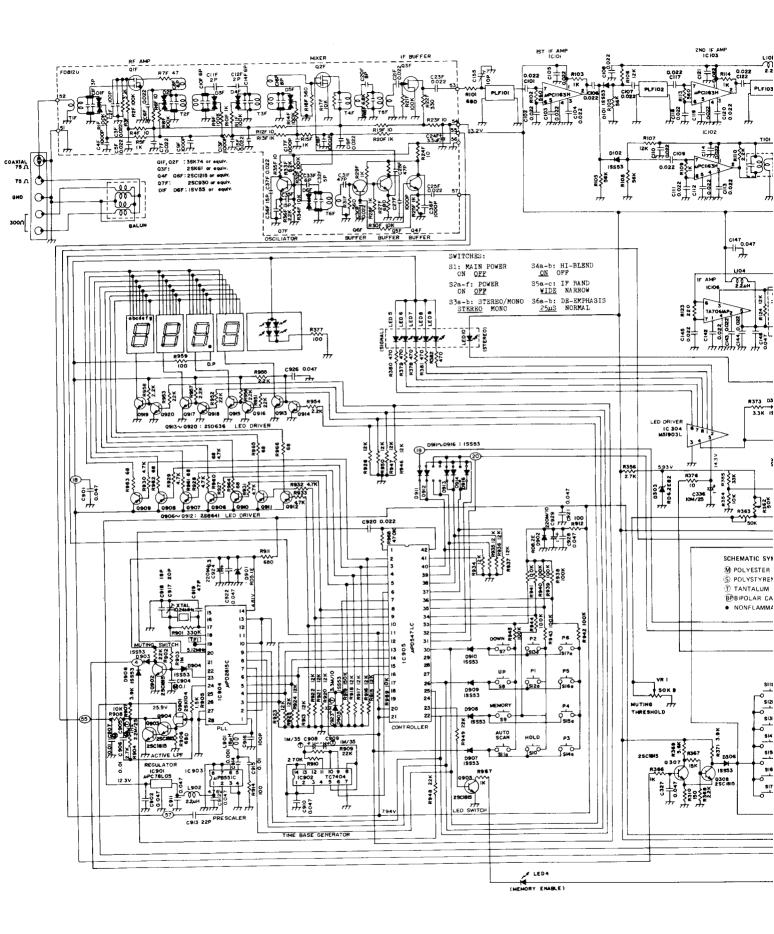
4	400Hz/stereo [main (L) & sub (L): ±67.5kHz; 19kHz pilot: ±7:5kHz]		R360 (Photo 7)	Adjust for maximum separation (or minimum output of right channel). Adjust for maximum	Both the separations (or both the outputs of right and left chan- nels) should
5	400Hz/stereo (main (R) & sub (—R): ±67.5kHz; 19kHz pilot: ±7.5kHz]			separation (or mini- mum output of left channel).	be equal.
6	Same as Step 4.	A∼E. Same as above.	R361	Same as Step 4.	Same as
7	Same as Step 5.	F. IF BAND to "NARROW".	(Photo 7)	Same as Step 5.	above.

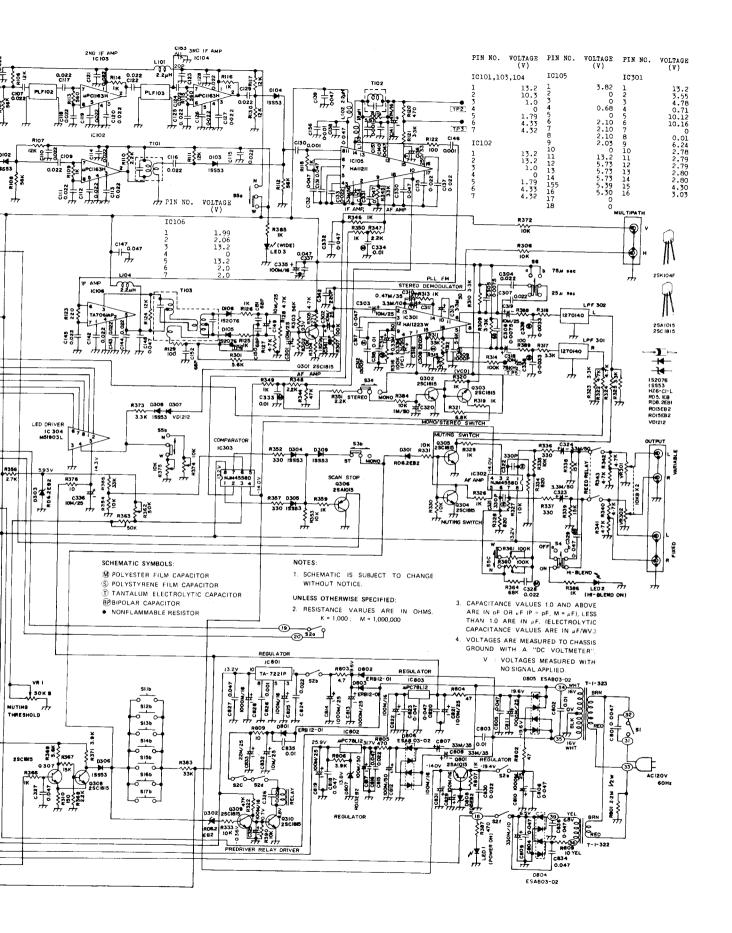
LED Signal-Strength Display Circuit Alignment

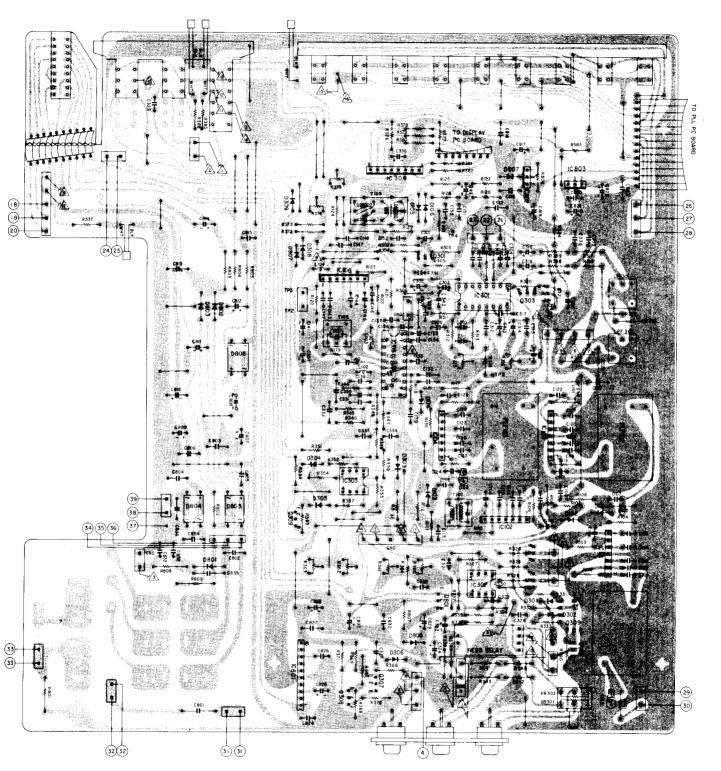
STEP	FM SG FREQUENCY/ CALIBLATION	MODULATING FREQUENCY/ DEVIATION	SWITCHES OF THE TUNER	LED FREQUENCY DISPLAY	ADJUSTMENT POINT	PROCEDURE	REMARKS
	98.1MHz/60dBμ		A. DE-EMPHASIS: either position. B. MAIN POWER			Adjust unit five signal-strength display LED's light up.	
1	98.1MHz/30-40 dBµ	400Hz mono [75kHz]	to "ON". C. POWER to "ON". D. MODE to "MONO".	98.1MHz	R375 (Photo 7)	Adjust until three signal-strength display LED's light up.	
	(No signal)		either position. F. IF BAND to "WIDE".			Adjust unit any signal-strength display LED no longer lights up.	
2	Same as Step 1.		A~E. Same as above. F. IF BAND to "NARROW".		R374 (Photo 7)	Same as Step 1.	

Muting Threshold Adjustment

STEP	FM SG FREQUENCY/ CALIBLATION	MODULATING FREQUENCY/ DEVIATION	SWITCHES OF THE TUNER	LED FREQUENCY DISPLAY	ADJUSTMENT POINT	PROCEDURE	REMARKS
1	98.1MHz/40dBµ		A. DE-EMPHASIS to "NORMAL". B. MAIN POWER to "ON". C. POWER to "ON".		R362 (Photo 7)	Adjust until audio output is observed on scope.	Repeat
2	98.1MHz/10dBµ	400Hz/ mono[±75kHz]	D. MODE to "STEREO". E. HI-BLEND to "OFF". F. IF BAND to "WIDE". G. MUTING THRESHOLD to full CW.	98.1MHz	R363 (Photo 7)	Adjust until audio output is no longer present on scope.	2 several times.







IF-AF PC Board (Bottom View)

PARTS LIST

NOTES:

The KEY NUMBER (#) marked with a (\bigstar) on parts list relate to numbers of three digits with a (\bigcirc).

Numberals in file indicate the quantity of parts used in one type. 2. +

TR: Transistor

Field effect transistor FET:

Volume control (Variable resistor) VR: Carbon film fixed resistor RES: MO-RES: Metal oxide film fixed resistor CE-RES: Cemented wirewound fixed resistor

NF: Nonflamable

C-CAP : Ceramic capacitor
Aluminium electrolytic capacitor T-CAP: Tantalum electrolytic capacitor BP-CAP: Bipolar electrolytic capacitor

E-CAP, T-CAP and BP-CAP values (1 x 10uf) are in (1) uF, (10) WV.

4. Assemblies and parts are subject to charge without notice.

5. Parts ordering procedure:

A. Do NOT USE THE "KEY" NUMBER AND "SYMBOL" NUMBER. (these are control # for the factory only)

B. Include in any order

a. Part number. b. Part Part description

	E-CAP :	Alumini	um electrolytic capacitor			b. Part o	description.		
	M-CAP:	Polyeste	r film capacitor			c. Mode	l number.		
	S-CAP:	Polysty	ene film capacitor			(any of th	e above laci	king from an order may delay shipment of t	hat order.)
						(4.7)		,,,	,
	0.4400.			PART	KEY	SYMBOL			PART
KEY	SYMBOL	W-type-u	DESCRIPTION ++	PARI	KET	STMBUL	W-type-u ⁻¹	DESCRIPTION ++	ran)
NO.	NO.	W 1,7 pc 0	2200	NO.	NO.	NO.	W type G	2200	NO.
								300000	
		PACKING	MATERIALS & ACCESSORIES				9	Push button. P416SL-4SQ - ((GOLD)	
								MODEL)>	7851870
					*		9	Push button. P416BL-4SQ — «BLACK	
		1	Carton	9825410				MODEL»	7851990
		1	Pad (L)	9840730				Spring(V)	7440400
		1	Pad (R)	9840740			9	Stop, button	7401460
		1	Sack, polyethylene cloth	9640650					
					*			Lever, tuning – ((GOLD MODEL))	7851850
		1	Sack (#13), polyethylene cloth	9640320				Lever, tuning – ((BLACK MODEL))	7851970
		1	Manual (E), instruction	960236E				Arm, tuning	7031940
			Manual (SEI), instruction	960263F				Screw. PTS 3 ϕ x8	814308S
		1	Cloth, polishing	9690040				Holder, lever	7031930
		1	Cord 2T-1 (NK), pin plug	962014A			2	Screw. PMS 3 ϕ ×5	810305S
		1	Antenna, FM. Q-MATCH	4581360					
					*			Cover, metal	7820850
		1	Sack (#1), polyethylene cloth	9640590				Washer, W4¢ BLK	893104W
		1	Dryer, SILICA GEL	9690010				Screw. TFTS 4 ϕ x10 BLK	887410W
								Screw. PTS 3 ϕ x6 BLK	814306W
					*			Plate, bottom	7325120
								Screw. PTS 3 ϕ x6	814306S
					*			Foot (TG)	7401350
							4	Screw. PTS 3 ϕ x8	814308S
			ASSEMBLY						
		1	Panel, front-((GOLD MODEL))	7884110					
*		1	Panel, front-((BLACK MODEL))	7884120					
		6	Screw, PTS 3 ϕ x6	814306S			CHASSIS	ASSEMBLY	
*			LED. GD-4-207RD	5060010			/41	(Front Plate Assembly)	
			Holder, LED	7903060					814306S
			Cloth. DUST COV2430 — for power switch	7001980				Screw, PTS 30x6 (Back Plate Assembly)	6143003
*		1	Window, dial smoke	7802320				Screw. PTS 36x6 BLK	814306W
			V 1 4501 810 BOWER #6010				•	Screw. F13 30X0 BLK	01430011
		1	Knob. 15GL-8LS – POWER (GOLD	7041110				Angle (R), side	7226580
			MODEL)	7841110				Angle (R), chassis	7226600
*		,	Knob. 15BK-8LS POWER ((BLACK	7041120	-			Bushing (B312-250), snap	7401100
			MODEL)	7841120			,	Busining (BS12-250), shap	7401100
		1	Knob, 12GL-8D - MUTING THRESHOLD	7041000	_			Bracket (F), PC board	7226620
			((GOLD MODEL))	7841090	-			Screw. PTS 30x6	814306S
*		,	Knob, 128K-8D – MUTING THRESHOLD	7044100				Bracket (B), PC board	7226560
			((BLACK MODEL))	7841100	*			Screw. PTS 36x6	814306S
			0 : 1 105)	7001400	_			Bracket, front end	7226610
			Guide (GE)	7801480	-			Screw. PTS 36x6	814306S
		3	Push button. P520BL-4E MUTING					Holder (B), front end	7226570
			ON-STEREO + MONO, HI-BLEND,	7051060	=			Screw. PTS 30x6	814306S
		_	IF BAND ((GOLD MODEL))	7851860			4	SCIEN. FIS SWAU	0143003
*		3	Push button, P520BL-4E - MUTING					Front End, FD811U	4910110
			ON-STEREO → MONO, HI-BLEND,	7051000	-			Screw. PTS 36x6	814306S
		_	IF-BAND (BLACK MODEL)	7851980 7440400			•	OCIEW. 1 13 SPAC	0170000
			Spring (V)				1	Angle (L), chassis	7226590
		3	Stop, button	7401460	-			Lug, solder	440000D
		_	Guide (GS)	7401470				Washer. TW(1) 3¢	893403U
		9	duide (do)	/4014/0			-	tradical: 1 trill wy	230,000

PART ORDERING PROCEDURE - . . . Do NOT USE THE "KEY" NUMBER AND "SYMBOL" NUMBER. (these are control # for the factory only.) Include in any order: a. Part number, b. Part description, c. Model number. (any of the above lacking from an order may delay shipment of that order.)

ΕY	SYMBOL	+++	PART	KEY	SYMBOL	W-type-u	DESCRIPTION ++	PART
0.	NO.	Wtypeu ⁺ DESCRIPTION ⁺⁺	NO.	NO.	NO.	W-type-u	DESCRIPTION	NO.
							Tarminal (ED) antenna	4450540
		2 Screw. PTS 3φx6	814306S	*		2	Terminal (5P), antenna Screw. PTS 3 ϕ x10 BLK	814310V
		1 Angle(L), side	7226630	*		1	PC Board, antenna	4620280
		1 Transformer, power. T-1-322 – 120V on		*		1	Balun	1210420
		2 Washer. TW(I) 3φ	893403U			1	Plug (P-2128), coaxial	4530530
		2 Nut. 1N 3φ	892013S					
		2 Screw. PMS 4φx8	810408S		S1		Switch (ESD-394T), slide - MAIN POWER	4020480 4020440
		1 Transformer, power. T-1-323 — 120V on			S6	4	Switch (SL-13), slide — DE-EMPHASIS Screw. PMS 3¢x6 BLK	810306\
		2 Plate, power transformer mounting	7031290				Lug, solder	4400000
		2 Screw. PMS 4φx8	810408S				Washer, TW(1) 3¢	893403\
		(1) (PLL PC Board Assembly)					Nut. 1N 3¢	8920139
		4 Screw. PTS 3φx6	814306S			2	Screw. PMS 3 ϕ x6 BLK	810306V
		 Plate (L), shielding – bottom 	7226540					3054006
		 Plate (U), shielding — top 	7226550	*		1	Knob. P2BK-16LVD LEVEL	7851800
		7 Screw. PTS 3φx6	814306S					
		1 Rivet, plastic push. FNRP 3x4.5	7401190					
		(1) (IF-AF PC Board Assembly)						
		5 Screw. PTS 3¢x6	814306S 810305S					
		2 Screw. PMS 3φx5	8103055					
					F	PLL PC	BOARD ASSEMBLY	
					C901~C90	3 3	C-CAP 0.047uf 80, -20% 50V YG	2314732
					C904		M-CAP 0.1uf 10% 50V	2221041
					C905	1	T-CAP 25D2.2uf	252312
		FRONT PLATE ASSEMBLY			C906,907	2		222103.
					C908,C909		T-CAP 35D1uf	252410
					C910~C91		C-CAP 0.047uf 80, -20% 50V YG C-CAP 22pf 10% 50V SL	2314732 232220F
		1 Plate, front	7325140		C913 C914	1		231102K
		A. B. alan frankrand	7031800		C915	1		2311032
		Bracket, front panel Angle (L), front	7031970		C916	i	C-CAP 470pf 10% 50V SL	232471K
		4 Screw. PTS 30×6	814306S		C917	1	Capacitor, 20pf trimmer	4241060
		4 Sciew. I To Spxs	•		C918	1	C-CAP 18pf 10% 50V SL	2321 8 0K
		1 Guide, display - ((GOLD MODEL))	7401490		C919	1		232470K
		1 Guide, display — ((BLACK MODEL))	7401500		C920		C-CAP 0.022uf 80, -20% 50V YG	2312232
		1 Window (G), dial smoke	7802330		C921,C922		C-CAP 0.047uf 80, -20% 50V YG	2314732 252113N
		2 Holder, window	7031950		C923		T-CAP 10D3.3uf E-CAP 6.3R220uf	2110320
		2 Screw. PTS 3φx6	814306S		C924 C925~C92		C-CAP 0.047uf 80, -20% 50V YG	2314732
		4. Books wissenside	7031980		C928		C-CAP 0.022uf 80, -20% 50V YG	2312232
		1 Bracket, microswitch 2 Screw. PTS 36x6	814306S		C929		E-CAP 10R220uf	2111320
	S7,S8	2 Micro-switch, VV5-1A44	4060060					
	37,30	2 Screw. PTS 3\psi x16	814316S		D901	1	Zener Diode. RD5.1EB	5020459
		2 Screw. PTS 2.6φ×16	8142165		D902		Zener Diode. RD8.2EB1	5020529
		2 Pad, switch	7001940		D903~D9	14 12	Diode. 1SS53	5010239
					D915		- Deleted -	501000
		1 PC Board, display	4612620		D916	1	Diode. 1SS53	5010239
		1 LED. GL-6R201	5060070		10001		IC ((PC78) 05	5180629
		1 LED. MHz display	5060100 5060080		IC901 IC902		IC μPC78L05 IC TC7404P	518064
		2 LED. GL-2PG1 (GRN)	5060080 5060090		IC902 IC903		IC μPC551C	5180599
		4 LED. GL-2AR1 (RED) 1 Cable (8-220), ribbon	606211E		1C903		IC μPD2815C	518058
		1 Cable (8-220), ribbon 2 Rivet, Plastic push. FNRP 3x4.5	7401190		IC905		IC μPD547LC	5180579
	Ve.	1 VR B50kohm – MUTING THRESHOLI			L901	1	Inductor, Buh 5%	1210850
	VR1	I VR BOOKONM - MOTING THRESHOLD	4510540		L902		Inductor, 2.2uh 20%	1210860
					Q901		FET 2SK104(F)	5160269
					Q902~Q9		TR 2SC1815 (O, Y)	5110189
					Q906~Q9		TR 2SB641 (R, Q)	5111019
					Q913~Q9		TR 2SD636 (R, Q)	5131015
		BACK PLATE ASSEMBLY			R901	1	RES 330kohm 5% ¼W	328334
					R902		RES 22kohm 5% ¼W	328223.
		1 Plate, back	7325130		R903		RES 1 megohm 5% %W	328105
		·			R904		RES 2.7kohm 5% 1/4W	328272.
		1 Cord, AC line. DP-70	606007A		R905		RES 1.5kohm 5% ¼W	328152.
		1 Stopper, cord. SR-3P-4	7400620		R906			328681. 328392
		1 Bracket (W), cord	7031460		R907	- 1		
		2 Screw. PTS 36x6 BLK	814306S		R908		RES 10kohm 5% ¼W	328103.

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EY SYMBOL	W-type-u+ DESCRIPTION++	PART	KEY SYMBOL Witype	u ⁺ DESCRIPTION ++	PART
IO. NO.	W-type-u [†] DESCRIPTION ^{† †}	NO.	NO. NO.		NO.
R910	1 RES 270kohm 5% ¼W	328274J	R101	1 RES 680ohm 5% %W	328681.
R911	1 RES 680ohm 5% ¼W	328681J	R102	1 RES 560ohm 5% ¼W	328561.
R912	1 RES 100ohm 5% ¼W	328101J	R103	1 RES 1kohm 5% ¼W	328102.
R913	1 RES 12kohm 5% ¼W	328123J 328101J	R104,R105	2 RES 5.6kohm 5% ¼W	328563.
R914	1 RES 100ohm 5% ¼W	328123J	R106,R107	2 RES 12kohm 5% 1/4W	328123.
R915~R91		328154J	R108	1 RES 5.6kohm 5% ¼W	328563.
R919	1 RES 150kohm 5% ¼W	328123J	R109	1 RES 1kohm 5% 1/4W	328102
R920~R92		328472J	R110	1 RES 2.2kohm 5% ¼W	328222
R927~R93		328123J	R111	1 RES 12kohm 5% ¼W	328123
R934~R93	,	328104J	R112	1 RES 56kohm 5% ¼W	328563
R938~R94		328123J	R113	1 RES 560ohm 5% 1/4W	328561
R946,R947		328223J	R114	1 RES 1kohm 5% ¼W	328102
R948,R949	,	328123J	R115	1 RES 560ohm 5% ¼W	328561
R950		328223J	R116	1 RES 1kohm 5% ¼W	328102
R951~R95		328222J	R117	1 RES 12kohm 5% ¼W	328123
R955~R95	1 RES 100ohm 5% %W	328101J	R118	1 RES 1kohm 5% 1/4W	328102
R959		328680J	R119	1 RES 5.6kohm 5% 1/4W	328562
R960~R96		328102J	R120	1 RES 470ohm 5% ¼W	328471
R967		328474J	R121	1 RES 4.7kohm 5% ¼W	328472
R968		328103J	R122	1 RES 100ohm 5% 1/4W	328101
R909	1 RES 10kohm 5% ¼W	320,000	R123	1 RES 220ohm 5% 1/4W	328221
	1 X'tal, 10, 24 MHz	1280440	R124	1 RES 5.6kohm 5% 1/4W	328562
	1 X tai, 10, 24 MHz	1250440	R125,R126	2 RES 1kohm 5% ¼W	328102
	4 41 41 401 00 5	7031990	R127,R128	2 RES 4.7kohm 5% ¼W	328472
	1 Holder (P), PC board	606209E	R129	1 RES 100ohm 5% ¼W	328101
	2 Cable (13-110), ribbon	4510130	R130	1 RES 12kohm 5% ¼W	328123
	1 Socket (28P), IC - for IC904	4510120	11130	1120 12101111	
	 Socket (42P), IC — for IC905 	4510120	T101	1 Transformer, FM IF - red	124018
			T102	1 Transformer, FM IF - black	124033
			T103	1 Transformer, FM discriminator	124032
	IF-AF PC BOARD ASSEMBLY		\.	(MPX SECTION)	
	IF-AF PC BOARD ASSEMBLY			(MPX SECTION)	21132
	IF-AF PC BOARD ASSEMBLY (IF SECTION)		C301∼C303	(MPX SECTION) 3 E-CAP 25R10uf	
	(IF SECTION)	2912227	C301∼C303 C304	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V	22222
C101~C1:	(IF SECTION) 22 22 C:CAP 0.022uf 80, -20% 50V YG	231223Z	C301∼C303 C304 C305,C306	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP 0.022uf 5% 50V 2 M-CAP 0.0075uf 5% 100V	22222 22875
C101~C1 C123	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG	231473Z	C301∼C303 C304 C305,C306 C307	(MPX_SECTION) 3 E-CAP_25R10uf 1 M-CAP_0.022uf 5% 50V 2 M-CAP_0.0075uf 5% 100V 1 M-CAP_0.022uf 5% 50V	222223 22875 22222
C101~C1: C123 C124~C1:	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG	231473Z 231223Z	C301~C303 C304 C305,C306 C307 C308	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.022uf 5% 50V 1 S-CAP 2200pf 5% 50V	222223 228753 222223 223223
C101~C1: C123 C124~C1: C130	(IF SECTION) 22	231473Z 231223Z 231102Z	C301~C303 C304 C305,C306 C307 C308 C309	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.022uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V	222223 228753 222223 223223 223103
C101~C1: C123 C124~C1: C130 C131,C13	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.001uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG	231473Z 231223Z 231102Z 231473Z	C301∼C303 C304 C305,C306 C307 C308 C309	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP 0.022uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf	22222 22875 22222 22322 22310 25240
C101~C1: C123 C124~C1: C130 C131,C13	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.021uf 80, -20% 50V YG 1 C-CAP 0.001uf 80, -20% 50V YG 2 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG	231473Z 231223Z 231102Z 231473Z 231223Z	C301~C303 C304 C305,C306 C307 C308 C309 C310	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.022uf 5% 50V 1 S-CAP 2000pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf	22222 22875 22222 22322 22310 25240 25211
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134	(IF SECTION) 22	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q	C301~C303 C304 C305,C306 C307 C308 C309 C310	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP 0.022uf 5% 50V 1 S-CAP 200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 1003.3uf 1 S-CAP 1500pf 5% 50V	22222 22875 22222 22322 22310 25240 25211 22315
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.001uf 80, -20% 50V YG 2 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP 0.022uf 5% 50V 2 M-CAP 0.0075uf 5% 100V 1 M-CAP 0.022uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 S-CAP 1500pf 5% 50V	22222 22875 22222 22322 22310 25240 25211 22315 21151
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.021uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 5083.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 25D3.3uf	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP 0.0075uf 5% 100V 1 M-CAP 0.022uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 10D0.3uf 2 S-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf	22222 22875 22222 22322 22310 25240 25211 22315 21151 21150
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.001uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 50R3.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 25D3.3uf 1 C-CAP 0.022uf 80, -20% 50V YG	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M 231223Z	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP 0.022uf 5% 50V 2 M-CAP 0.0075uf 5% 100V 1 M-CAP 0.022uf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 3500.47uf 1 T-CAP 3500.47uf 1 T-CAP 1003.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf C 1 E-CAP 50R3.3uf C 1 M-CAP 0.01uf 10% 50V	22222 22875 22222 22322 22310 25240 25211 22315 21151 21150 22210
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1	(IF SECTION) 22	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M 231223Z 231223Z 231273Z	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP 0.022uf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 35D0.47uf 1 S-CAP 1000pf 5% 50V 1 E-CAP 50R3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf 1 M-CAP 0.01uf 10% 50V 1 E-CAP 50R0.33uf	22222 22875 22222 22310 25240 25211 22315 21151 21150 22210 21150
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.021uf 80, -20% 50V YG 2 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 50R3.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 25D3.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 25D3.3uf 1 C-CAP 0.027uf 80, -20% 50V YG 40 3 C-CAP 0.047uf 80, -20% 50V YG 1 E-CAP 16R47uf	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M 231223Z 231473Z 211225Q	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.022uf 5% 50V 1 S-CAP 1000pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R0.33uf 1 C-CAP 00R0.33uf 1 C-CAP 0.047uf 80, -20% 50% YG	22222 22875 22222 22310 25240 25211 22315 21151 21150 22210 23147
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1: C141 C142	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.021uf 80, -20% 50V YG 2 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 5083.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 40 3 C-CAP 0.047uf 80, -20% 50V YG 1 E-CAP 16R47uf 1 C-CAP 0.022uf 80, -20% 50V YG	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M 231223Z 231473Z 211225Q 231223Z	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.0022uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R0.33uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf	22222 22875 22222 22310 25240 25211 22315 21151 21215 22210 23147 21132
C101~C1: C123~C1: C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 2503.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 2503.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 10.022uf 80, -20% 50V YG 1 C-CAP 10.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG	231473Z 231223Z 231102Z 231473Z 23123Z 211513Q 231223Z 252313M 231223Z 231473Z 211225Q 231223Z 231223Z	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP 0.022uf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 35D0.47uf 1 T-CAP 1003.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 M-CAP 0.01uf 10% 50V 1 E-CAP 50R0.33uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R1uf	22222 22875 22222 22322 22310 25240 25211 21150 2210 21150 23144 21132 21151
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146 C147,C14	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 2503.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.017uf 80, -20% 50V YG 1 C-CAP 0.001f 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 8 2 C-CAP 0.047uf 80, -20% 50V YG	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M 231223Z 231473Z 211225Q 231223Z 231473Z 231102Z 231473Z	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C320 C321,C322	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP 0.0022uf 5% 50V 1 S-CAP 1000pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R0.33uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R1uf 2 S-CAP 330pf 5% 50V	22222 22875 22222 22310 25240 25211 22315 21151 2210 21150 23147 21135 23147 21135 23147 21135
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146 C147,C14	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.021uf 80, -20% 50V YG 2 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 26D3.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 26D3.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.001uf 80, -20% 50V YG 2 C-CAP 0.001uf 80, -20% 50V YG 8 2 C-CAP 0.047uf 80, -20% 50V YG 1 E-CAP 16R10uf	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M 231223Z 231473Z 211225Q 231223Z 231473Z 231102Z 231473Z 231473Z	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C321,C322 C323,C324	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.022uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 2 M-CAP0.01uf 10% 50V 1 E-CAP 50R0.33uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R0.33uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R1uf 2 S-CAP 50R1uf 2 S-CAP 330pf 5% 50V 2 E-CAP 50R3.3uf LC	22222 22875 22222 22322 22310 25240 25211 22315 21155 22210 2114 21132 2115 22333 2115
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146 C147,C14	(IF SECTION) 22	231473Z 231223Z 231102Z 231473Z 23123Z 211513Q 231223Z 252313M 231223Z 231473Z 211225Q 231223Z 231102Z 231473Z 211220Q 232680K	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C323,C324 C325	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.0022uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R0.33uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R1uf 2 S-CAP 330pf 5% 50V 2 E-CAP 50R3.3uf LC 1 E-CAP 50R1uf 2 S-CAP 330pf 5% 50V 2 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC	22222 22875 22222 22320 25240 25211 22316 21155 22210 21155 23144 21132 21155 22316 21155 22316
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146 C147,C14 C149 C150~C1 C153,C15	(IF SECTION) 22	231473Z 231223Z 231102Z 231473Z 23123Z 211513Q 231223Z 252313M 231223Z 231473Z 211225Q 231223Z 231473Z 231102Z 231473Z 231102Z 231473Z 231102Z 231473Z 231473Z 231473Z 231473Z 231473Z 231473Z 231473Z 231473Z 231473Z 231473Z	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C323,C324 C325 C326	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.022uf 5% 50V 1 S-CAP 1000pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R3.3uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 50R1.3uf 2 S-CAP 330pf 5% 50V 2 E-CAP 50R1.3uf 1 E-CAP 50R1.0uf 2 S-CAP 330pf 5% 50V 2 E-CAP 50R3.3uf LC 1 E-CAP 60R1.0uf 2 S-CAP 300pf 5% 50V 2 E-CAP 60R1.3uf LC 1 E-CAP 60R1.0uf 1 C-CAP 0.022uf 80, -20% 50% YG	22222 22875 22222 22322 22310 25240 25211 21151 21150 2210 23147 21135 2233 21151 22333 21151 22333 21152 2233
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146 C147,C14 C149 C150~C1 C153,C15	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.001uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 2503.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 1 E-CAP 16810uf 52 C-CAP 68pf 10% 50V SL 1 Capacitor, 10pf trimmer	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M 231223Z 231473Z 211225Q 231223Z 231102Z 231102Z 231473Z 211220Q 232680K 232100K 4241050	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C323,C324 C325 C326 C327	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.022uf 5% 50V 1 S-CAP 1000pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 1003.3uf 1 T-CAP 1003.3uf 1 S-CAP 15000pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R3.3uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 330pf 5% 50V 2 E-CAP 330pf 5% 50V 2 E-CAP 300pf 5% 50V 3 E-CAP 16R100uf 1 C-CAP 0.022uf 80, -20% 50% YG 1 C-CAP 0.022uf 80, -20% 50% YG	22222 22875 22222 22322 22310 25240 252115 21151 21150 22210 21151 2132 2151 22333 21151 22333 21151 22333 21151 22333 21151 22333 21151 22333 21151 22333 21151 22333 21151 22333 2132 2333 2312 2312
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146 C147,C14 C149 C150~C1 C153,C15	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.001uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 2503.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 1 E-CAP 16810uf 52 C-CAP 68pf 10% 50V SL 1 Capacitor, 10pf trimmer	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M 231223Z 231473Z 211225Q 231223Z 231102Z 231102Z 231473Z 211220Q 232680K 232100K 4241050	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C323,C324 C325 C326 C327 C328	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.0072uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 2 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R1uf 2 S-CAP 330pf 5% 50V 2 E-CAP 50R1uf 2 S-CAP 330pf 5% 50V 2 E-CAP 50R1uf 1 C-CAP 0.047uf 80, -20% 50% YG 1 C-CAP 0.022uf 80, -20% 50% YG 1 C-CAP 0.022uf 80, -20% 50% YG 1 C-CAP 0.047uf 80, -20% 50% YG	22222 22875 22222 22310 25211 22318 21155 2125 22210 21152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 21
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C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146 C147,C14 C149 C150~C1 C153,C15 C156,C15 D101~D1 D105,D0*	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.001uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 2503.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 10pf 10% 50V SL 1 Capacitor, 10pf trimmer 1 C-CAP 0.001uf 80, -20% 50V YG 1 C-CAP 10pf 10% 50V YG 1 C-CAP 0.001uf 80, -20% 50V YG 1 C-CAP 10pf 10% 50V YG	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M 231223Z 231473Z 2311225Q 231223Z 231102Z 231102Z 231220Q 232680K 232100K 4241050 231102Z 501023S 501019S	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C323,C324 C325 C326 C327 C328 C329 C330~C332 C333,C334 C335 C336 C337	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.0075uf 5% 50V 1 S-CAP 1000pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 1003.3uf 1 T-CAP 1003.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R0.33uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 C-CAP 0.047uf 80, -20% 50% YG 1 C-CAP 0.047uf 80, -20% 50% YG 1 C-CAP 0.047uf 80, -20% 50% YG 1 M-CAP 0.047uf 80, -20% 50V 2 E-CAP 0.047uf 80, -20% 50V 2 C-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 3 M-CAP 0.047uf 80, -20% 50V 4 E-CAP 25R10uf 1 C-CAP 25R10uf	22222 22875 22222 22322 22310 25240 252115 21155 22115 21155 22115 21155 22312 21152 2232 2312 231
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C149 C150~C1 C153,C15 C155 C156,C15 D101~D1 D105,D0'	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 2 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 50R3.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 25D3.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 1.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 1.047uf 80, -20% 50V YG 1 C-CAP 1.050 10% 50V SL 1 Capacitor, 1.05f trimmer 17 2 C-CAP 0.001uf 80, -20% 50V YG 104 4 Diode. 1SS53 2 Diode. 1S2076	231473Z 231223Z 231102Z 231473Z 23123Z 211513Q 231223Z 252313M 231223Z 231473Z 211225Q 231473Z 211225Q 231223Z 231102Z 231473Z 21122QQ 232680K 232100K 4241050 231102Z 501023S 501019S	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C323,C324 C325 C326 C327 C328 C329 C330~C332 C331,C334 C335 C335 C336	(MPX SECTION) 3 E.CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.022uf 5% 50V 1 S-CAP 1000pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 2 E-CAP 50R3.3uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 50R3.3uf 1 E-CAP 50R1.3uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 16R100uf 1 C-CAP 0.022uf 80, -20% 50% YG 1 M-CAP 0.047uf 80, -20% 50% YG 1 M-CAP 0.047uf 80, -20% 50V 2 C-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 2 E-CAP 16R100uf 1 E-CAP 25R10uf 1 E-CAP 56R10uf 1 M-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 2 E-CAP 16R100uf 1 E-CAP 25R10uf 1 C-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 3 M-CAP 0.047uf 80, -20% 50V 4 M-CAP 16R100uf 1 E-CAP 25R10uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 M-CAP 0.047uf 80, -20% 50% YG	22222 22875 22222 22310 25240 25211 21151 21152 2216 21152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 21
C101~C1: C123 C124~C1: C130 C131,C13 C133 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146 C147,C14 C149 C150~C1 C153,C15 C156,C15 D101~D1 D105,D0: IC101~IC	(IF SECTION) 22	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 252313M 231223Z 231473Z 2311225Q 231223Z 231102Z 231102Z 231220Q 232680K 232100K 4241050 231102Z 501023S 501019S	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C323,C324 C325 C326 C327 C328 C329 C330~C332 C333,C334 C335 C336 C337 C338,C339 C341	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.0075uf 5% 50V 1 S-CAP 1000pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 1003.3uf 1 T-CAP 1003.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 2 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 1 E-CAP 50R0.33uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 M-CAP0.01uf 10% 50V 2 E-CAP 50R3.3uf 1 C-CAP 0.047uf 80, -20% 50% YG 1 M-CAP0.022uf 80, -20% 50% YG 1 M-CAP0.047uf 80, -20% 50V 2 M-CAP0.047uf 80, -20% 50V 2 C-CAP 0.047uf 80, -20% 50V 2 M-CAP0.01uf 10% 50V 1 E-CAP 16R100uf 1 E-CAP 56R10uf 1 C-CAP 0.047uf 80, -20% 50V 2 M-CAP0.01uf 10% 50V 1 E-CAP 25R10uf 1 C-CAP 0.047uf 80, -20% 50V 2 M-CAP0.01uf 80, -20% 50V 3 M-CAP0.01uf 80, -20% 50V 4 M-CAP0.0033uf 5% 50V 1 C-CAP 68pf 10% 50V SL	22222 22875 22222 22310 25240 25211 21151 21152 21152 21152 21152 21153 21154 21152 21154 21152 21154
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C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146 C147,C14 C149 C150~C1 C153,C15 C155 C156,C15 D101~D1 D105,D0' IC101~IC	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.021uf 80, -20% 50V YG 2 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 21513M 231223Z 231473Z 231473Z 231473Z 231102Z 231473Z 231102Z 231473Z 23100K 4241050 232680K 232100K 4241050 231102Z 501023S 501019S 518060S 518062S 518047S	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C323,C324 C325 C326 C327 C328 C329 C330~C332 C333,C334 C335 C336 C337 C338,C339 C341 C342 D301~D303	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.0075uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 2 E-CAP 25R10uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R3.3uf LC 2 E-CAP 25R10uf 1 C-CAP 0.047uf 80, -20% 50% YG 1 M-CAP 0.022uf 80, -20% 50% YG 1 M-CAP 0.047uf 80, -20% 50% YG 1 M-CAP 0.047uf 80, -20% 50% YG 1 M-CAP 0.047uf 80, -20% 50% YG 2 M-CAP 0.047uf 80, -20% 50V 2 C-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 1 E-CAP 25R10uf 1 C-CAP 68pf 10% 50V SL 3 Zener Diode, HZ6-C1-L	22222: 22875: 22222: 22370: 25240: 25211: 21151: 21150: 23147: 21152: 23147: 21122: 23147: 22122: 23147: 22122: 23147: 22122: 23147: 2222247: 23147: 222233: 23147: 22226: 23147:
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C149 C150~C1 C153,C15 C156,C15 D101~D1 D105,D0: IC101~IC IC105 IC106 L101,L10 L103 L104	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.021uf 80, -20% 50V YG 2 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 21513M 231223Z 231473Z 231473Z 231473Z 231102Z 231473Z 231102Z 231473Z 23100K 4241050 232680K 232100K 4241050 231102Z 501023S 501019S 518060S 518062S 518047S	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C323,C324 C325 C326 C327 C328 C329 C330~C332 C333,C334 C335 C336 C337 C338,C339 C341 C342 D301~D303 D304~D306	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.0075uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 2 E-CAP 50R3.3uf LC 1 E-CAP 50R0.33uf 1 M-CAP0.01uf 10% 50V 2 E-CAP 50R0.33uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf 1 M-CAP0.02uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 C-CAP 0.047uf 80, -20% 50% YG 1 M-CAP0.022uf 5% 50V 2 E-CAP 300pf 5% 50V 2 E-CAP 16R100uf 1 C-CAP 0.047uf 80, -20% 50% YG 1 M-CAP0.047uf 80, -20% 50V 2 M-CAP0.047uf 80, -20% 50V 2 M-CAP0.047uf 80, -20% 50V 1 M-CAP0.047uf 80, -20% 50V 2 M-CAP0.047uf 80, -20% 50V 1 E-CAP 16R100uf 1 C-CAP 0.047uf 80, -20% 50V 2 M-CAP0.0033uf 5% 50V 1 C-CAP 68pf 10% 50V SL 3 Zener Diode, HZ6-C1-L 3 Diode, 18S53	22222 22875 22222 22310 25241 22315 21155 2215 21155 22115 21152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 2152 21
C101~C1: C123 C124~C1: C130 C131,C13 C133 C134 C135 C136 C137 C138~C1 C141 C142 C146 C147,C14 C149 C150~C1 C153,C15 C156,C15 D101~D1 D105,D0: IC101~IC1 IC106 IC106 L101,L10	(IF SECTION) 22 22 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 29 6 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 2 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 5078.3uf 1 C-CAP 5078.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 T-CAP 25D3.3uf 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.022uf 80, -20% 50V YG 1 C-CAP 0.021uf 80, -20% 50V YG 1 C-CAP 0.021uf 80, -20% 50V YG 1 C-CAP 0.047uf 80, -20% 50V YG 1 C-CAP 10pf 10% 50V SL 1 Capacitor, 10pf trimmer 17 2 C-CAP 0.001uf 80, -20% 50V YG 104 4 Diode. 1SS53 16 2 Diode. 1SS076 104 4 (C \(\text{\$\text{\$C}\$\text{\$\text{\$C}\$\text{\$\text{\$C}\$\text{\$\text{\$C}\$\text{\$\text{\$C}\$\text{\$\text{\$C}\$\$\text{\$\text	231473Z 231223Z 231102Z 231473Z 231223Z 211513Q 231223Z 21513M 231223Z 252313M 231223Z 231473Z 21125Q 231223Z 231102Z 231473Z 21122QQ 232680K 232100K 4241050 231102Z 501023S 501019S 518060S 51806S 518067S 1210860 1210860 1210860	C301~C303 C304 C305,C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318,C319 C320 C321,C322 C323,C324 C325 C326 C327 C328 C329 C330~C332 C333,C334 C335 C336 C337 C338,C339 C341 C342 D301~D303	(MPX SECTION) 3 E-CAP 25R10uf 1 M-CAP0.022uf 5% 50V 2 M-CAP0.0075uf 5% 100V 1 M-CAP0.0075uf 5% 50V 1 S-CAP 2200pf 5% 50V 1 S-CAP 1000pf 5% 50V 1 T-CAP 35D0.47uf 1 T-CAP 10D3.3uf 1 S-CAP 1500pf 5% 50V 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 1 E-CAP 50R3.3uf LC 2 E-CAP 25R10uf 1 C-CAP 0.047uf 80, -20% 50% YG 2 E-CAP 25R10uf 1 E-CAP 50R3.3uf LC 2 E-CAP 25R10uf 1 C-CAP 0.047uf 80, -20% 50% YG 1 M-CAP 0.022uf 80, -20% 50% YG 1 M-CAP 0.047uf 80, -20% 50% YG 1 M-CAP 0.047uf 80, -20% 50% YG 1 M-CAP 0.047uf 80, -20% 50% YG 2 M-CAP 0.047uf 80, -20% 50V 2 C-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 2 M-CAP 0.047uf 80, -20% 50V 1 E-CAP 25R10uf 1 C-CAP 68pf 10% 50V SL 3 Zener Diode, HZ6-C1-L	21132(2222(2225(2222)) 22210(25240) 25211: 21150(21150) 21150(21150) 21151(21150) 2

Nikko Gamma V

PART ORDERING PROCEDURE ----- Do NOT USE THE "KEY" NUMBER AND "SYMBOL" NUMBER. (these are control # for the factory only.) Include in any order: a. Part number, b. Part description, c. Model number. (any of the above lacking from an order may delay shipment of that order.)

W	type-u ⁺ DESCRIPTION ⁺⁺	PART	KEY	SYMBOL	Wtypeu ⁺ DESCRIPTION ++	P
NO.	System Holy	NO.	NO.	NO.	Wtypeu ⁺ DESCRIPTION ++	
IC301	1 IC HA11223W	E190E40		R377	1 RES 100ohm 5% 1/W	328
IC302	1 IC NJM4558D	518054S		R378~R382		328
IC303		518056S		R303	1 RES 33kohm 5% 1/4W	328
IC304	1 PC NJM4558D 1 PC M51903L	518056S		R384	1 RES 10kohm 5% ½W	328
10304	1 1C M21903F	518065S		R385,R386	2 RES 1kohm 5% 1/4W	328
				R387	1 RES 470ohm 5% 1/4W	328
LPF301	1 Filter, 38 kHz low pass	1270140		R388, R389	2 RES 100ohm 5% 1/4W	328
LPF302	1 Filter, 38 kHz low pass	1270140		R390	1 RES 10kohm 5% 1/4W	328
Q301~Q305	5 TR 2SC1815 (O, Y)	511018S	506		1 Relay, reed, URT-103	470
Q306	1 TR 2SA1015 (Y)	5101028	*507		••	170
Q307~Q310	4 TR 2SC1815 (O, Y)	511018S	508		1 Terminals, pin jack. CB, 2Px3 (CE) 2 Screw. PTS 3φx10 BLK	444 814
5004					• • • • • • • • • • • • • • • • • • • •	•
R301 R302	1 RES 5.6kohm 5% ¼W 1 RES 10kohm 5% ¼W	328562J				
R303		328103J				
	1 RES 56kohm 5% ¼W	328563J				
R304	1 RES 1kohm 5% 1/4W	328102J				
R305	1 RES 4.7kohm 5% 1/4W	328472J			(POWER SUPPLY SECTION)	
R306	1 RES 10kohm 5% 1/4W	328103J				
R307	1 RES 100kohm 5% 1/4W	328104J		C801	1 C-CAP 0.047uf 100,0% 125VAC	220
		0201045				239
R309,R310	2 RES 3.3kohm 5% ¼W	200202		C802,C803	2 C-CAP 0.01uf 100, -0% 500V	238
R311		328332J		C804~C806	3 C-CAP 0.047uf 80, -20% 50V YG	231
	1 RES 33kohm 5% ¼W	328333J		C807,C808	2 E-CAP 35R33uf	211
R312	1 RES 5.6kohm 5% ¼W	328562J		C809	1 E-CAP 10R330uf	211
R313	1 RES 1kohm 5% 1/4W	328102J		C810,C811	2 E-CAP 25R1000uf	211
R314	1 RES 100kohm 5% ¼W	328104J		C812	1 E-CAP 50R100uf	211
R315	1 Potentimeter, 3.3kohm - HVR-RVG-10B	4300820		C813,C814	2 E-CAP 25R1000uf	
R316	1 Potentiometer, 100kohm - HVR-RVA-7B	4300790		C815	1 C-CAP 0.022uf 80, -20% 50V YG	211
R317,R318	2 RES 3.3kohm 5% ¼W	328332J		C816		231
R319					1 C-CAP 0.047uf 80,20% 50V YG	231
		328681J		C817	1 E-CAP 50R100uf	211
R320	1 RES 1kohm 5% ¼W	328102J		C818	1 C-CAP 0.047uf 80,20% 50V YG	231
R321	1 RES 6.8kohm 5% %W	328682J		C819	1 E-CAP 35R100uf	211
R322	1 RES 4.7kohm 5% 1/4W	328472J		C820	1 C-CAP 0.047uf 80, -20% 50V YG	231
R323	1 RES 3.3kohm 5% 1/4W	328332J		C821	1 E-CAP 25R100uf	211
R324	1 RES 4.7kohm 5% 1/4W	328472J		C822	1 E-CAP 16R100uf	211
R325	1 RES 3.3kohm 5% ¼W	328332J		C823	1 C-CAP 0.047uf 80, -20% 50V YG	
R326	1 RES 1kohm 5% 1/4W					231
R327		328102J		C824	1 C-CAP 0.022uf 80, -20% 50V YG	231
		328103J		C825	1 E-CAP 16R100uf	211
R338	1 RES 820ohm 5% ¼W	328821J		C826	1 C-CAP 0.001uf 80, -20% 50V YG	231
R329	1 RES 1kohm 5% %W	328102J		C827	1 C-CAP 0.047uf 80, -20% 50V YG	231
R330, R331	2 RES 10kohm 5% 1/4W	328103J		C828	1 E-CAP 16R1000uf	211
R332	1 RES 4.7kohm 5% ¼W	328473J		C829	1 E-CAP 16R100uf	211
R333	1 RES 10kohm 5% 1/4W	328103J		C830	1 C-CAP 0.022uf 80, -20% 50V YG	231
R334	1 RES 820ohm 5% ¼W	328821J		C831	1 E-CAP 16R100uf	211
R335	1 RES 10kohm 5% ¼W	328103J		C832	1 E-CAP 25R10uf	
R336,R337	2 RES 330ohm 5% ¼W			C833		211
R338,R339		328331J			1 E-CAP 25R22uf	211
		328153J		C834	1 C-CAP 0.047uf 80, -20% 50V YG	231
R340~R343	4 RES 4.7kohm 5% ¼W	328472J		C835	1 C-CAP 0.01uf 100, -0% 500V	238
R344	1 RES 47kohm 5% ¼W	328473J		C836	1 C-CAP 0.047uf 80, -20% 50V YG	231
R345	1 RES 33kohm 5% ¼W	328333J				
R346	1 RES 1kohm 5% 1/4W	328102J		D801~D803	3 Diode, ERB12-01	560
R347,R348	2 RES 2.2kohm 5% ¼W	328222J		D804~D806	3 Diode Bridge, ESAB03-02	560
R349,R350	2 RES 1kohm 5% %W	328102J		D807	1 Zener Diode. RD13EB2	502
R351	1 RES 2.2kohm 5% 1/4W	328222J		D808	1 Zener Diode. RD15EB2	
R352	1 RES 330ohm 5% ¼W			5000	Zener Dioge. ND 19EBZ	502
R353,R354		328331J		10004		
	2 RES 20kohm 5% ¼W	328103J		IC801	1 IC TA7221P	518
R355	1 RES 33kohm 5% 1/2W	328333J		IC802	1 IC μPC78L12	518
R356	1 RES 2.7kohm 5% ¼W	328272J		IC803	1 IC μPC78L12	518
R357	1 RES 330ohm 5% ¼W	328331J				
R359	1 RES 1kohm 5% ¼W	220102		Q801	1 TR 2SA1015(Y)	510
R360,R361	1 RES 1kohm 5% ¼W 2 Potentiometer, 100kohm – HVR-RVA-7B	328102J 4300790		R801	1 PEC 2 2manshm 109 1/14	200
R362,R363				R801	1 RES 2.2megohm 10% ½W	3252
	2 Potentiometer, 50kohm HVR-RVA-7B	4300780		R802	1 NF-MO-RES 47ohm 5% ½W	3604
R364	1 RES 68kohm 5% ¼W	328683J		R803	1 NF-MO-RES 4.7ohm 5% ½W	3604
				R804	1 NF-MO-RES 47ohm 5% ½W	3604
R366	1 RES 1kohm 5% 1/4W	328102J		R805	1 NF-MO-RES 470ohm 5% 1/2W	3604
R367	1 RES 15kohm 5% 1/4W	328153J		R806	1 RES 3.9kohm 5% ¼W	3283
R368	1 RES 2.2kohm 5% %W	328222J		R807	1 RES 1kohm 5% ¼W	
R369	1 RES 5.6kohm 5% ¼W	328562J				328
				R808, R809	2 NF-MO-RES 10ohm 5% ½W	3601
R370	1 RES 150ohm 5% ¼W	328151J				
R371	1 RES 3.9kohm 5% ¼W	328392J				
R372	1 RES 10kohm 5% 1/4W	328103J				
R373	1 RES 3.3kohm 5% 1/4W	328332J				
R374,R375	2 Potentiometer, 10kohm – HVR-RVA-7B	4300770				

PART_ORDERING_PROCEDURE · · · · · Do NOT_USE_THE "KEY" NUMBER AND "SYMBOL" NUMBER. (these are control # for the factory only.) Include in any order: a. Part number, b. Part description, c. Model number. (any of the above lacking from an order may delay shipment of that order.) PART SYMBOL PART KEY KEY SYMBOL DESCRIPTION ++ DESCRIPTION ++ W-type-u+ W-type-u⁻¹ NO. NO. NO. NO. NO. NO. 7032040 1 Sleeve, shielding - for T103 511 (Others) 7082020 1 Heat Sink (R) - for IC801 512 810305S 1 Screw. PMS 36x5 Switch, 3-section pushbutton. SUF33 -513 *509 S3+S4+S5 606210E 1 Cable (10-40), ribbon ***514**

4041030

4041020

4320810

515

4 Socket (3021-2-N), mini - for LED's

4510090

SUF33 - MUTING ON-STEREO + MONO,

Switch, 9-section pushbutton. SUH92

HI-BLEND, IF-BAND

VR B10kohmx2 - LEVEL

S9+ ··· +S17

VR301+VR302

***510**

IF-AF PC BOARD

Interconnecting Wiring Guide

- To 4, PLL PC BOARD
- (8) To 18, PLL PC BOARD
- 19 To 19, PLL PC BOARD
- 20) To 20, PLL PC BOARD
- 24 25 To MUTING THRESHOLD VOLUME CONTROL
- 26) To MICROSWITCH S8(UP)
- To MICROSWITCH \$7(DOWN) Ø
- <u>ĕ</u> To MICROSWITCHES S8, S7
- (29) To IF OUT, FRONT END
- <u>(30)</u> To GROUND (IF OUT), FRONT END
- 31 To AC LINE

PLL PC BOARD

4

18

Interconnecting Wiring Guide

To 4, IF-AF PC BOARD

To 18, IF-AF PC BOARD

To 19, IF-AF PC BOARD

To 20, IF-AF PC BOARD

To B2 GND, FRONT END

To FOUT, FRONT END

To B2, FRONT END

- To MAIN POWER SWITCH S1
- To P. TRANSFORMER 32 T-1-323, BRN
 - To P. TRANSFORMER T-1-322, BRN

- (33) To AC LINE
 - To P. TRANSFORMER T-1-323, RED
 - To P. TRANSFORMER T-1-322, RED
- (34) To P. TRANSFORMER T-1-323, WHT
- 35) To P. TRANSFORMER T-1-323, WHT
- 36 To P. TRANSFORMER T-1-323, YEL
- 37) To CHASSIS GROUND
- (38) To P. TRANSFORMER T-1-323, BLK
- (39) To P. TRANSFORMER T-1-323, YEL

