DR-135 / 435FX **Service Manual**

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DR-435 ADJUSTMENT

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SPECIFICATIONS

General

<u> </u>		
Frequency coverage	DR-135	DR-435
FX	136.000 ~ 173.995MHz (RX, TX)	350.000 ~ 511.995MHz (RX) 400.000 ~ 489.995MHz (TX)
FXE	144.000 ~ 145.995MHz (RX, TX)	430.000 ~ 439.995MHz (RX, TX)

Operating mode	FM 16K0F3E (Wide mode) 8K50F3E (Narrow mode)		
Frequency resolution	5 , 8.33 , 10 , 12.5 , 15 , 20 , 25 , 30 , 50 kHz		
Number of memory Channels	100		
Antenna impedance	50ohm unbalanced		
Power requirement	13.8V DC +/- 15% (11.7 ~ 15.8 V)		
Ground method	Negative ground		
Current drain Receive	0.6 A (max.) 0.4 A (Squelched)		
Transmit	Approx. 12.0 A max.		
Operating temperature	-10 °C ~ 60°C		
Frequency stability	+/- 5ppm +/- 2.5 ppm		
Dimensions	142 (w) x 40 (h) x 174 (d) mm		
:	(142 x 40 x 188 mm for projection included)		
Weight Approx. 1.0 Kg			

Transmitter

Output power	Hi	50 W	35 W
	Mid	20 W	20 W
	Low	Approx. 5 W	Approx. 5 W
Modulation syste	em	Variable	reactance frequency modulation
Maximum	Frequency	/ +/- 5kHz (Wide mode) +/- 2.5kHz (Narrow mode)	
deviation			
Spurious emissi	on		- 60 dB
Adjacent channel power		- 60 dB	
Noise and hum ratio - 40 dB (Wide mode) - 34 dB (Narrow		ide mode) - 34 dB(Narrow mode)	
Microphone impedance 2kohm		2kohm	

Receiver

Sensitivity	- 14 dBu for 12 dB SINAD			
Receiver circuit	Double conversion super-heterodyne			
Intermediate frequency	1st 21.7 MHz 2nd 450kHz 1st 30.85 MHz 2nd 455kHz			
Squelch sensitivity	- 18 dBu			
Adjacent channel selectivity	- 65 dB (Wide mode) - 55 dB (Narrow mode)			
Inter-modulation rejection ratio	60 dB			
Spurious and image rejection ratio	70 dB			
Audio output power	2.0 W (80hm , 10 % THD)			

! NOTE : All specifications are subject to change without notice or obligation.

CIRCUIT DESCRIPTION

1) Receiver System DR- 135

The receiver system is a double super-heterodyne system with a 21.7MHz first IF and a 450kHz second IF.

1. Front End

2. IF Circuit

3. Demodulation Circuit

4. Audio Circuit

The received signal at any frequency in the 136.000MHz to 173.995MHz range is passed through the low-pass filter (L116, L115, L114, L113, C204, C203, C202, C216 and C215) and tuning circuit (L105, L104 and D105, D104), and amplified by the RF amplifier (Q107). The signal from Q107 is then passed through the tuning circuit (L103, L102, and variable capacitor D103, D102) and converted into 21.7MHz by the mixer (Q106). The tuning circuit, which consists of L105, L104, variable capacitor D105 and D104, L103, L102, variable capacitor D103 and D102, is controlled by the tracking voltage from the VCO. The local signal from the VCO is passed through the buffer (Q145), and supplied to the source of the mixer (Q106). The radio uses the lower side of the super-heterodyne system.

The mixer mixes the received signal with the local signal to obtain the sum of and difference between them. The crystal filter (XF102, XF101) selects 21.7 MHz frequency from the results and eliminates the signal of the unwanted frequencies. The first IF amplifier (Q105) then amplifies the signal of the selected frequency.

After the signal is amplified by the first IF amplifier (Q105), it is input to pin16 of the demodulator IC (IC108). The second local signal of 21.25MHz (shared with PLL IC reference oscillation), which is oscillated the external oscillator X601 and IC601, is input through pin 1 of IC108. Then, these two signals are mixed by the internal mixer in IC108 and the result is converted into the second IF signal with a frequency of 450kHz. The second IF signal is output from pin 3 of IC108 to the ceramic filter (FL102 or FL101), where the unwanted frequency band of that signal is eliminated, and the resulting signal is sent back to the IC108 through pin 5. The second IF signal input via pin 5 is demodulated by the internal limiter amplifier and quadrature detection circuit in IC 108, and output as an audio signal through pin 9.

The audio signal from pin 9 of IC 108 is amplified by the audio amplifier (IC120:A), and switched by the signal switch IC (IC111) and then input it to the de-emphasis circuit.

And is compensated to the audio frequency characteristics in the de-emphasis circuit (R203, R207, R213, R209, C191, C218, C217) and amplified by the AF amplifier (IC120:B). The signal is then input to volume (VR1). The adjusted signal is sent to the audio power amplifier (IC117) through the pin 1 to drive the speaker.

5. Squelch Circuit

The detected output which is outputted from pin 9 of IC108 is inputted to pin 8 of IC108 after it was been amplified IC120:A and it is outputted from pin 7 after the noise component was been eliminated from the composed band pass filter in the built in amplifier of the IC, then the signal is rectified by the internal diode in IC108 to convert into DC component. The adjusted voltage level at VR101 is delivered to the comparator of the CPU. The voltage is led to pin 2 of CPU and compared with the setting voltage. The squelch will open if the input voltage is lower than the setting voltage. During open squelch, pin 30 (SQC) of the CPU becomes "L" level, AF control signal is begin controlled and sounds is outputted from speaker.

6. WIDE/NARROW Switching circuit

The second IF 450kHz signal which passes through filter FL101 (wide) and FL102 (narrow) during narrow, changes its width using the width control switching D116 and D115.

2) Transmitter System DR- 135

1. Modulator Circuit

The audio signal is converted to an electrical signal by the microphone, and input it to the microphone amplifier (Q6). Amplified signal which passes through mic-mute control IC109 is adjusted to an appropriate mic-volume by means of mic-gain adjust VR106.

IC114:D and C consists of two operational amplifiers; one amplifier (pin 12, 13 and 14) is composed of pre-emphasis and IDC circuit and the other (pin 8, 9 and 10) is composed of a splatter filter. The maximum frequency deviation is obtained by VR107. And input to the signal switch (IC113) (9600 bps packet signal input switch) and input to the cathode of the variable capacitor of the VCO, to change the electric capacity in the oscillation circuit. This produces the frequency modulation.

2. Power Amplifier Circuit

The transmitted signal is oscillated by the VCO, amplified by the younger amplifier (Q115), and input to the final power module (IC110). The signal is then amplified by the final power module (IC110) and led to the antenna switch (D110) and low-pass filter (L113, L114, L115, L116, C215, C216, C202, C203 and C204), where unwanted high harmonic waves are reduced as needed, and the resulting signal is supplied to the antenna.

3. APC Circuit

Part of the transmission power from the low-pass filter is detected by D111, converted to DC. The detection voltage is passed through the APC circuit (IC114:A, IC114:B), then it controls the APC voltage supplied to final power module IC110 to fix the transmission power.

3) PLL Synthesizer Circuit DR- 135

1. PLL

The dividing ratio is obtained by sending data from CPU (IC1) to pin 10 and sending clock pulses to pin 9 of the PLL IC (IC116). The oscillated signal from the VCO is amplified by the buffer (Q134 and Q135) and input to pin 8 of IC116. Each programmable divider in IC116 divides the frequency of the input signal by N according to the frequency data, to generate a comparison frequency of 5 or 6.25 kHz.

- 2. Reference Frequency Circuit The reference frequency appropriate for the channel steps is obtained by dividing the 21.25 MHz reference oscillation (X102) by 4250 or 3400, according to the data from the CPU (IC1). When the resulting frequency is 5 kHz, channel step of 5, 10, 15, 20, 25, 30 and 50 kHz are used. When it is 6.25 kHz, the 12.5 kHz channel step is used.
- 3. Phase Comparator Circuit

The PLL (IC116) uses the reference frequency, 5 or 6.25 kHz. The phase comparator in the IC116 compares the phase of the frequency from the VCO with that of the comparison frequency, 5 or 6.25 kHz, which is obtained by the internal divider in IC116.

4. PLL Loop Filter Circuit

If a phase difference is found in the phase comparison between the reference frequency and the VCO output frequency, the charge pump output (pin 5) of IC116 generates a pulse signal, which is converted DC voltage by the PLL loop filter and input to the input to the variable capacitor of the VCO unit for oscillation frequency control.

5. VCO Circuit

A Colpitts oscillation circuit driven by Q131 directly oscillates the desired frequency. The frequency control voltage determine in the CPU (IC1) and PLL circuit is input to the variable capacitor (D122 and D123). This change the oscillation frequency, which is amplified by the VCO buffer (Q134, Q145) and output from the VCO area.

6. VCO Shift Circuit

During transmission or the AIR band Reception (118 ~ 136 MHz), the VCO shift circuit turns ON Q138, change control the capacitance of L123 and safely oscillates the VCO by means of H signal from pin 42 of IC1.

4) Receiver System DR- 435

The receiver system is a double super-heterodyne system with a 30.85MHz first IF and a 455kHz second IF.

1. Front End

The received signal at any frequency in the 430.000MHz to 439.995MHz range is passed through the low-pass filter (L115, L114, L116, C204, C203, C202, C216 and C215) and amplified by the RF amplifier (Q107). The signal from Q107 is then passed through the BPF circuit (L103, L102) and converted into 30.85MHz by the mixer (Q106). The local signal from the VCO is passed through the buffer (Q134, Q145), and supplied to the source of the mixer (Q106). The radio uses the lower side of the super-heterodyne system.

2. IF Circuit

The mixer mixes the received signal with the local signal to obtain the sum of and difference between them. The crystal filter (XF101) selects 30.85 MHz frequency from the results and eliminates the signal of the unwanted frequencies. The first IF amplifier (Q105) then amplifies the signal of the selected frequency.

3. Demodulation Circuit	
	After the signal is amplified by the first IF amplifier (Q105), it is input to pin16 of the demodulator IC (IC108). The second local signal of 30.395MHz (Crystal oscillator) is input through pin 1 of IC108. Then, these two signals are mixed by the internal mixer in IC108 and the result is converted into the second IF signal with a frequency of 455kHz. The second IF signal is output from pin 3 of IC108 to the ceramic filter (FL101 or FL102), where the unwanted frequency band of that signal is eliminated, and the resulting signal is sent back to the IC108 through pin 5. The second IF signal input via pin 5 is demodulated by the internal limiter amplifier and quadrature detection circuit in IC 108, and output as an audio signal through pin 9.
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5. Squelch Circuit	The detected output which is outputted from pin 9 of IC108 is inputted to pin 8 of IC108 after it was been amplified IC120:A and it is outputted from pin 7 after the noise component was been eliminated from the composed band pass filter in the built in amplifier of the IC, then the signal is rectified by the internal diode in IC108 to convert into DC component. The adjusted voltage level at VR101 is delivered to the comparator of the CPU. The voltage is led to pin 2 of CPU and compared with the setting voltage. The squelch will open if the input voltage is lower than the setting voltage. During open squelch, pin 30 (SQC) of the CPU becomes "L" level, AF control signal is begin controlled and sounds is outputted from speaker.
6. WIDE/NARROW Switching circuit	The second IF 455kHz signal which passes through filter FL101 (wide) and FL102 (narrow) during narrow, changes its width using the width control switching D116 and D115

5) Transmitter System DR- 435

1. Modulator Circuit

The audio signal is converted to an electrical signal by the microphone, and input it to the microphone amplifier (Q6). Amplified signal which passes through mic-mute control IC109 is adjusted to an appropriate mic-volume by means of mic-gain adjust VR106.

IC114:D and C consists of two operational amplifiers; one amplifier (pin 12, 13 and 14) is composed of pre-emphasis and IDC circuit and the other (pin 8, 9 and 10) is composed of a splatter filter. The maximum frequency deviation is obtained by VR107. And input to the signal switch (IC113) (9600 bps packet signal input switch) and input to the cathode of the variable capacitor of the VCO, to change the electric capacity in the oscillation circuit. This produces the frequency modulation.

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3. APC Circuit	Part of the transmission power from the low-pass filter is detected by D111, converted to DC. The detection voltage is passed through the APC circuit (IC114:A, IC114:B), then it controls the APC voltage supplied to the final power module IC110 to fix the transmission power.

6) PLL Synthesizer Circuit DR- 435

1. PLL	The dividing ratio is obtained by sending data from CPU (IC1) to pin 10 and sending clock pulses to pin 9 of the PLL IC (IC116). The oscillated signal from the VCO is amplified by the buffer (Q134 and Q135) and input to pin 8 of IC116. Each programmable divider in IC116 divides the frequency of the input signal by N according to the frequency data, to generate a comparison frequency of 5 or 6.25 kHz.
2. Reference Frequency Circuit	The reference frequency appropriate for the channel steps is obtained by dividing the 21.25 MHz reference oscillation (X102) by 4250 or 3400, according to the data from the CPU (IC1). When the resulting frequency is 5 kHz, channel step of 5, 10, 15, 20, 25, 30 and 50 kHz are used. When it is 6.25 kHz, the 12.5 kHz channel step is used.
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4. PLL Loop Filter Circuit	If a phase difference is found in the phase comparison between the reference frequency and the VCO output frequency, the charge pump output (pin 5) of IC116 generates a pulse signal, which is converted DC voltage by the PLL loop filter and input to the input to the variable capacitor of the VCO unit for oscillation frequency control.
5. VCO Circuit	A Colpitts oscillation circuit driven by Q131 directly oscillates the desired frequency. The frequency control voltage determine in the CPU (IC1) and PLL circuit is input to the variable capacitor (D122 and D123). This change the oscillation frequency, which is amplified by the VCO buffer (Q134, Q145) and output from the VCO unit.

7) CPU and Peripheral Circuits

1. LCD Display Circuit	The CPU turns ON the LCD via segment and common terminals with 1/4 the duty and 1/3 the bias, at the frame frequency is 64 Hz.	
2. Reset and Backup	When the power from the DC cable increases from Circuits 0 V to 2.5 V or more, "H" level reset signal is output from the reset IC (IC4) to pin 33 of the CPU (IC1), causing the CPU to reset. The reset signal , however, waits at 100, and dose not enter the CPU until the CPU clock (X1) has stabilized.	
3. S (Signal) Meter Circuit	The DC potential of IF IC is input to pin 1 of the CPU (IC1), converted from an analog to a digital signal, and displayed as the S-meter signal on the LCD.	
4. DTMF Encoder	The CPU (IC1) is equipped with an internal DTMF encoder. The DTMF signal is output from pin 10, through R35, R34 and R261 (for level adjustment), and then through the microphone amplifier (IC114:A), and is sent to the variable capacitor of the VCO for modulation. At the same time, the monitoring tone passes through the AF circuit and is output from the speaker.	
5. Tone Encoder	The CPU (IC1) is equipped with an internal tone encoder. The tone signal (67.0 to 250.3 Hz) is output from pin 9 of CPU to the variable capacitor (D122 and D123) of the VCO for modulation.	
6. DCS Encoder	The CPU (IC1) is equipped with an internal DCS code encoder. The code (023 to 754) is output from pin 9 of CPU to the voltage control pin of VCTCXO (X102) of the PLL reference oscillator. When DCS is ON, DCS MUTE circuit (Q126-ON, Q133-ON, Q132-OFF) works. The modulation activates in X102 side only.	
7. CTCSS, DCS Decoder	The voice band of the AF output signal from pin 1 of IC120:A is cut by sharp active filter IC104:A, B and C (VCVS) and amplified, then led to pin 4 of CPU. The input signal is compared with the programmed tone frequency code in the CPU. The squelch will open when they match. During DCS, Q108 is ON, C419 is working and cut off frequency is	

8) Power Supply Circuit

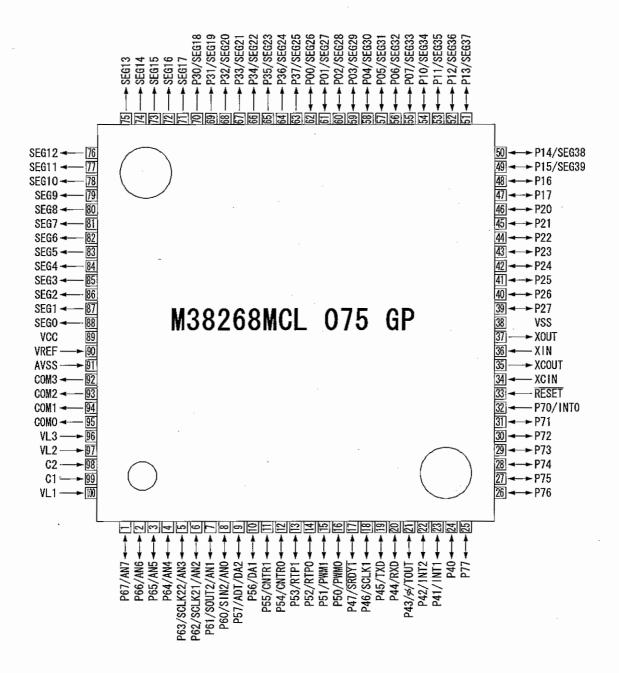
When power supply is ON, there is a "L" signal being inputted to pin 39 (PSW) of CPU which enables the CPU to work. Then, "H" signal is outputted from pin 41 (C5C) of CPU and drives ON the power supply switch control Q8 and Q7 which turns the 5VS ON. 5VS turns ON the PLL IC (IC116), main power supply switch Q127 and Q122, AF POWER IC117 and the 8V of AVR (IC115). During reception, pin 29 (R5) of CPU outputs "H" level, Q124 is ON, and the reception circuits supplied by 8 V. While during transmission, pin 28 (T5) of CPU outputs "L" level which is reverse by Q11 so that the output in Q128 will be "H" level, Q123 is ON, and the transmission circuit is supplied by 8 V. Or, in the case when the condition of PLL is UNLOCK, "H" level is outputted from pin 14 of PLL IC, UNLOCK switch Q129 is ON, transmission switch Q128 is OFF which makes the transmission to stop.

lowered.

9) M38268MCL075GP (XA1130)

CPU

Terminal Connection (TOP VIEW)



9

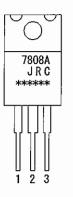
No.	Terminal	Signal	I/O	Description	
1	P67/AN7	SMT		S-meter input	
2	P66/AN6	SQL	I	Noise level input for squelch	
3	P65/AN5	BP5	I	Band plan 5	
4	P64/AN4	TIN		CTCSS tone input / DCS code input	
5	P63/SCLK22/AN3	BP1	I	Band plan 1	
6	P62/SCLK21/AN2	BP2		Band plan 2	
7	P61/SOUT2/AN1	DCSW	0	DCS signal mute	
8	P60/SIN2/AN0	RE2		Rotary encoder input	
9	P57/ADT/DA2	TOUT	0	CTCSS tone output / DCS tone output	
10	P56/DA1	DOUT	0	DTMF output	
11	P55/CNTR1	SCL	0	Serial clock for EEPROM	
12	P54/CNTR0	TBST	0	Tone burst output	
13	P53/RTP1	BP4	1/O	Band plan 4	
14	P52/RTP0	MUTE	I/O	Microphone mute / Security alarm SW	
15	P51/PWM1	CLK	0	Serial clock output for PLL	
16	P50/PWM0	DATA	I/O	Serial data output for PLL / PLL unlock signal input	
17	P47/SRDY1	TSTB	I/O	Trunking board detection / Strobe signal to trunking board	
18	P46/SCLK1	STB	0	Strobe for PLL IC	
19	P45/TXD	UTX	0	UART data transmission output	
20	P44/RXD	RTX	1	UART data reception output	
.21	P43/φ/TOUT	BEEP	I/O	Beep tone / Band plan 3	
22	P42/INT2	SEC	I I	Security voltage input	
23	P41/INT1	RE1	I	Rotary encoder input	
24	P40				
25	P77	PTT	1	PTT input	
26	P76	SSTB	0	Security mode	
27	P75	W/N	0	Wide Narrow SW	
28	P74	Т5	0	TX power ON / OFF output	
29	P73	R5	0	RX power ON / OFF output	
30	P72	SQC	0	SQL ON / OFF	
31	P71				
32	P70/INT0	BU	I	Backup signal detection input	
33	RESET	RESET	1	Reset input	
34	XCIN	Xcin	-	-	
35	XCOUT	Xcout	-	-	
36	XIN	Xin	-	Main clock input	
37	XOUT	Xout	-	Main clock output	
38	VSS	GND		CPU GND	
39	P27	PSW	1	Power switch input	
40	P26	SDA	0	Serial data for EEPROM	
41	P25	C5C	0	C5V power ON / OFF output	
42	P24	AIR	0	Tx middle power	
43	P23	LOW	0	Tx low power	
44	P22	EXP	0	Trunking / Packet data SW	
45	P21	SW6	1	Key sw 6 (SQL)	
46	P20	SW5		Key sw 5 (CALL)	
47	P17	SW4	l	Key sw 4 (TSQ)	
48	P16	SW3	I	Key sw 3 (MHz)	
49	P15/SEG39	SW2	I	Key sw 2 (V/M)	
50	P14/SEG38	SW1	1	Key sw 1 (FUNC)	

	Terminal	Signal	I/O	Description
51	P13/SEG37	DOWN		Mic down input
52	P12/SEG36			
53	P11/SEG35			
54	P10/SEG34	UP		Mic up input
55	P07/SEG33	S33	0	
56	P06/SEG32	S32	0	
57	P05/SEG31	S31	0	
58	P04/SEG30	S30	0	
59	P03/SEG29	S29	0	
60	P02/SEG28	S28	0	
61	P01/SEG27	S27	0	
62	P00/SEG26	S26	0	· ·
63	P37/SEG25	S25	0	
64	P36/SEG24	S24	0	
65	P35/SEG23	S23	0	
66	P34/SEG22	S22	0	
67	P33/SEG21	S21	0	
68	P32/SEG20	S20	0	
69	P31/SEG19	S19	0	
70	P30/SEG18	S18	0	
71	SEG17	S17	0	
72	SEG16	S16	0	LCD segment signal
73	SEG15	S15	0	
74	SEG14	S14	0	-
75	SEG13	S13	0	
76	SEG12	S12	0	
77	SEG11	S11	0	-
78	SEG10	S10	0	
79	SEG9	S9	0	-
80	SEG8	S8	0	· · · · .
81	SEG7	S7	0	-
82	SEG6	S6	0	
83	SEG5	S5	0	-
84	SEG4	S4	0	
85	SEG3	S3	0	
86	SEG2	S2	0	-
87	SEG1		0	
88	SEG0	SO	0	
89	VCC	VDD	_	CPU power terminal
90	VREF	Vref	_	AD converter power supply
91	AVSS	Avss	_	AD converter GND
92	COM3	COM3	0	LCD COM3 output
93	COM2	COM2	0	LCD COM2 output
94	COM1	COM1	0	LCD COM1 output
95	COM0	COM0	0	LCD COM0 output
96	VL3	VL3	-	LCD power supply
97	VL2	VL2		LCD power supply
98	C2	<u> </u>		-
99	<u>C1</u>	 C1	_	
~ *	VL1	VL1	<u>I</u>	LCD power supply

SEMICONDUCTOR DATA

1) NJM7808FA (XA0102)

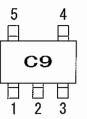
8V (1A) Voltage Regulator



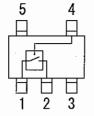
- 1. INPUT
- 2. COMMON
- 3. OUTPUT

2) TC4S66F (XA0115)

Bilateral Switch







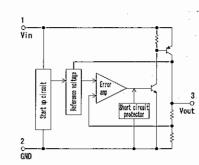
CONT	Function (IN-OUT)
L	Disconnect (Hi Z)
Н	Connect (290ohm typ.)

3) AN8010M (XA0119)

10V (50mA) Voltage Regulator

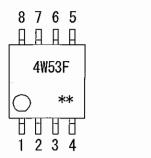


1. OUTPUT 2. COMMON 3. INPUT



4) TC4W53FU (XA0348)

Multiplexer / De-multiplexer

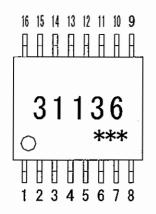


1. COMMON 2. INH 3. VEE 4. VSS 5. A 6. ch 1 7. ch 0 8. VDD

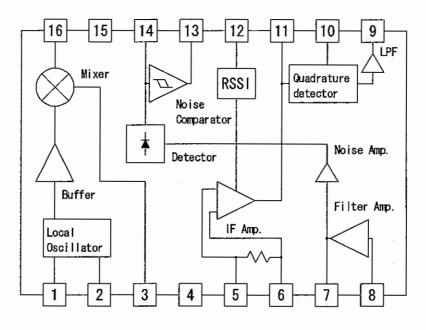
Controll input		ON channel	
INH	A	ON channel	
L	L	ch 0	
L	H	ch 1	
Н	*	NONE	
* Don't care			

5) TA31136FN (XA0404)

Narrow Band FM IF IC



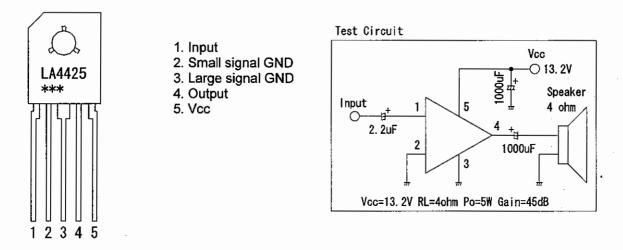
1. OSC IN 2. OSC OUT 3. MIX OUT 4. Vcc 5. IF IN 6. DEC 7. FIL OUT 8. FIL IN	9. AF OUT 10. QUAD 11. IF OUT 12. RSSI 13. N-DET 14. N-REC 15. GND 16. MIX IN
8. FIL IN	16. MIX IN



6) LA4425A (XA0410)

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5W Audio Power Amplifier



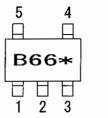
7) BR24L32FJ (XA0604Z)

32K-Bit EEPROM

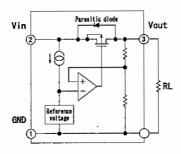
8765	1. A0		
e e e e	2. A1	Name	Function
	3. A2	A0A2	User Configurable Chip Select
L32	4. Vss	Vss	Ground
	5. SDA	SDA	Serial Address / Data / I/O
	6. SCL	SCL	Serial Clock
	7. WP	WP	Write Protect Input
8888	8. Vcc	Vcc	+2.5 ~ 6.0V Power Supply
1234			

8) S-80845ALMP (XA0620)

4.5V Voltage Detector

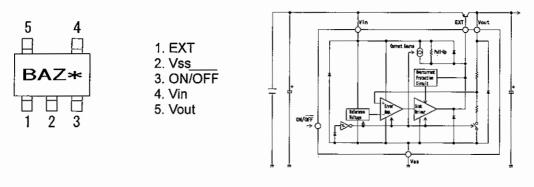


1. GND 2. Vin 3. Vout 4. NC 5. NC



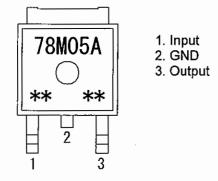
9) S-816A50AMC (XA0925)

External Transistor Type 5V Voltage Regulator with On/Off Function



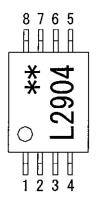
10) NJM78M05DL1A (XA0947)

5V (500mA) Voltage Regulator



11) LM2904PWR (XA1103)

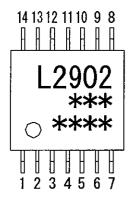
Dual Operational Amplifiers



- 1. Output A
- 2. Inverting Input A
- 3. Non-inverting Input A
- 4. GND
- 5. Non-inverting Input B
- 6. Inverting Input B
- 7. Output B
- 8. Vcc

12) LM2902PWR (XA1106)

Quad Operational Amplifiers



1

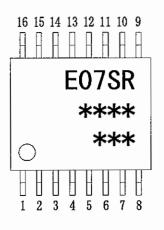
- 1. Output A
- 2. Inverting Input A
- 3. Non-inverting Input A

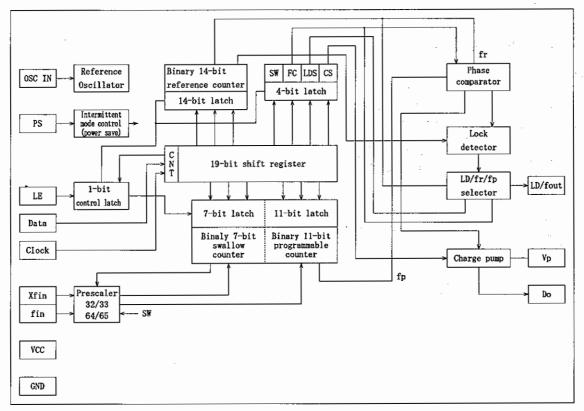
4. Vcc

- 5. Non-inverting Input B
- 6. Inverting Input B
- 7. Output B
- 8. Output C
- 9. Inverting Input C
- 10. Non-inverting Input C
- 11. GND
- 12. Non-inverting Input D
- 13. Inverting Input D
- 14. Output D

13) MB15E07SR (XA1107)

PLL Synthesizer



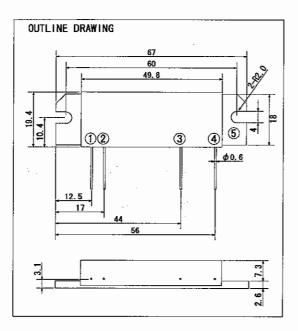


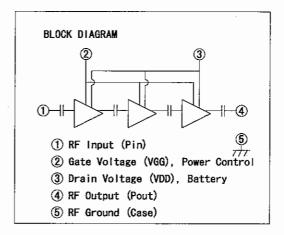
(Vcc = 2.7 to 5.0V, Ta = -40° C to +850C)

Parameter	Symbo I	Condition	Min.	Тур.	Max.	Unit
Power supply voltage	Vcc		2.7	3.75	5.0	V
Power supply current	lcc	2500MHz Vcc=Vp=3.75V		8.0		mA
LPF supply voltage	Vp	-	Vcc	~	5.5	V
Local oscillator input level	Vfin	100MHz to 300MHz 300MHz to 2500MHz	-6 -15		+2 +2	dBm
Local oscillator input frequency	fin	-	100		2500	MHz
Xin input level	Vxin	-	0.5		Vcc	Vp-p
Xin input frequency	Fxin	-	3		40	MHz

14) RA60H1317M1 (XA1108)

144 ~ 146MHz 60W RF Power Module





ABSOLUTE MAXIMUM RATING (Tc = 25 °C, unless otherwise noted)

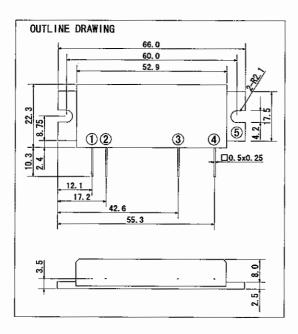
Symbol	Parameter	Conditions	Ratings	Unit
VDD	Drain Voltage	VGG < 5V, ZG = ZL = 500hm	17	. V
VGG	Gate Voltage	VDD < 12.5V, Pin=50mW	5.5	V
IDD	Drain Current	ZG = ZL = 50ohm	15	A
Pin	Input Power	f = 135 – 175 MHz, Pin=50mW	100	mW
Pout	Output Power	ZG = ZL = 50ohm	80	W
Tcase (OP)	Operation Case Temperature		-30 to +110	°C
Tstg	Storage Temprature		-40 to +110	°C

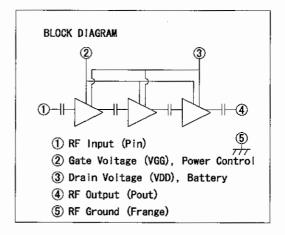
ELECTRICAL CHARACTERISTICS (Tc = 25 °C, unless otherwise noted)

Symbol	Parameter	Conditions		Ratings	;	11-1-14
Symbol	raialitetei	Conditions	Min	Тур	Max	Unit
f ···	Frequency Range		135		175	MHz
Pout	Output Power		60			W
ηΤ	Total Efficiency	VDD = 12.5V	: 45			%
2fo	2 nd Harmonic	→ VGG = 5V → Pin = 50mW			-50	dBc
Pin	Input VSWR				3:1	-
IGG	Gate Current	(***		1		mA
· · · · · · · · · · · · · · · · · · ·	Stability	VDD=10.0-15.2V, Pin=25-70mW, Pout<70W (VGG control), Load VSWR=3:1	No pa oscilla			-
-	Load VSWR Tolerance	VDD=15.2V, Pin=50mW, Pout=60W (VGG control), Load VSWR=8:1	No de destro	gradatio y	DI OL	-

15) S-AU82L (XA1142)

400 ~ 470MHz 60W RF Power Module





ABSOLUTE MAXIMUM RATING (Tc = 25 °C, unless otherwise noted)

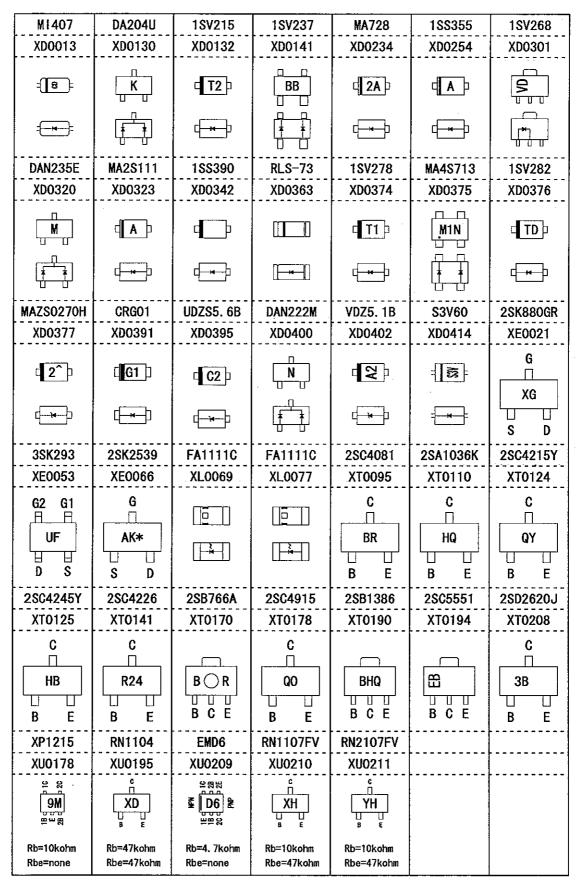
Symbol	Parameter	Conditions	Ratings	Unit
VDD	Drain Voltage	VGG < 5V, Pi = 50mW, Po < 60W	16.5	V
VGG	Gate Voltage	VDD < 12.5V, Pin=50mW	5.5	V
IDD	Drain Current	VDD < 12.5V, Pin=5011VV	15	A
Pin	Input Power	VDD < 12.5V, VGG < 5V	100	MW
Pout	Output Power	12.5V < VDD < 16.5V, VGG = 5V, Pi = 50mW	80	w
Tcase (OP)	Operation Case Temperature		-30 to +100	°C
Tstg	Storage Temprature		-40 to +100	°℃

ELECTRICAL CHARACTERISTICS (Tc = 25 °C, unless otherwise noted)

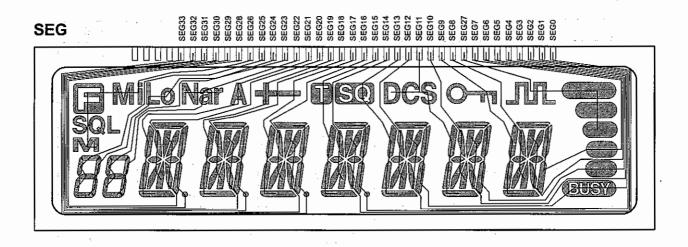
Symbol	Parameter	Conditions		Ratings	5	Unit
Symbol	Falatielei	Conditions	Min	Тур	Max	Onits
f	Frequency Range		400		470	MHz
Pout	Output Power	VDD = 12.5V	60			W
ηT	Total Efficiency	VGG = 5V	40		1.1	%
2fo	2 nd Harmonic	Pin = 50mW			-30	dBc
P in	Input VSWR	ZL = 50ohm			3.0	, -
IGG	Gate Current			1. :		mA
-	Stability	VDD=10.5-16.5V, VGG=0-5V, Pin=50mW, Pout<60W (VGG control), Load VSWR=3:1 ALL PHASE	than 6	rious o 60dB b ed sign	ellow	-
-	Load VSWR Tolerance	VDD=10.5-16.5V, VGG=0-5V, Pin=50mW, Pout=60W (VGG control), Load VSWR=20:1 ALL PHASE		egradat		

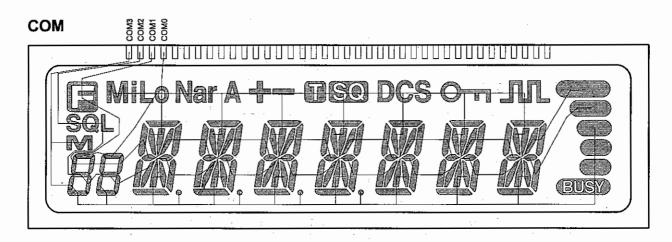
16) Transistor, Diode and LED Outline Drawing

Top View



17) LCD Connection (TTR3626UPFDHN)



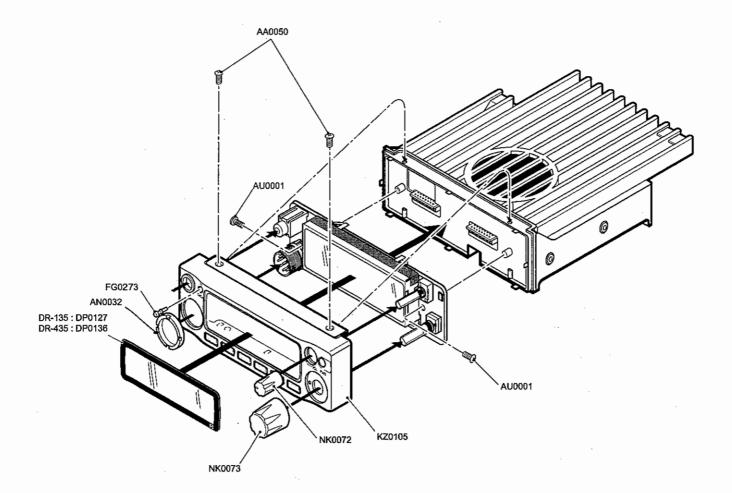


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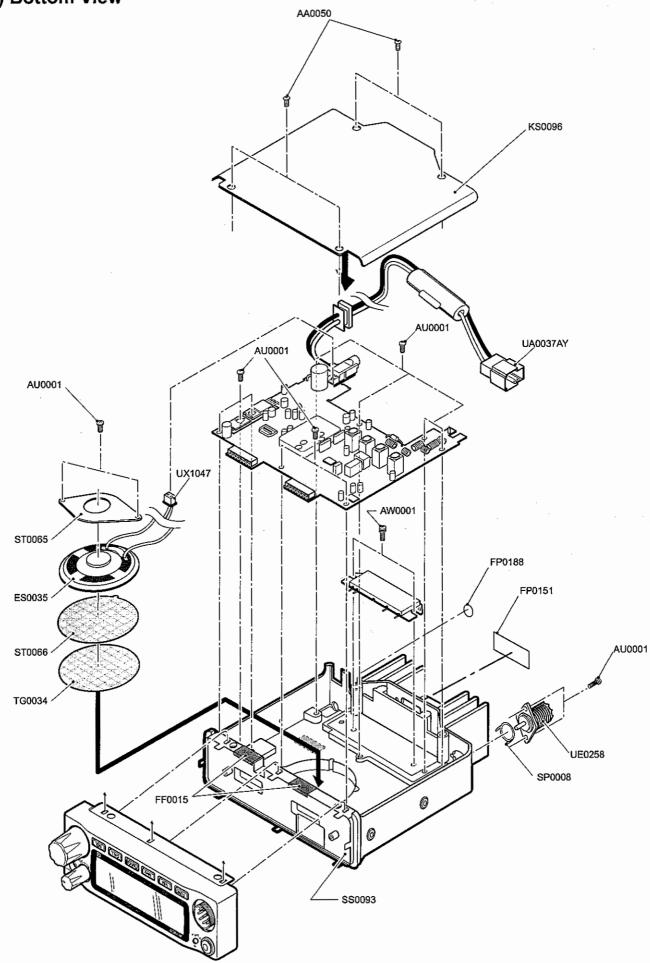
EXPLODED VIEW

1) Top and Front View

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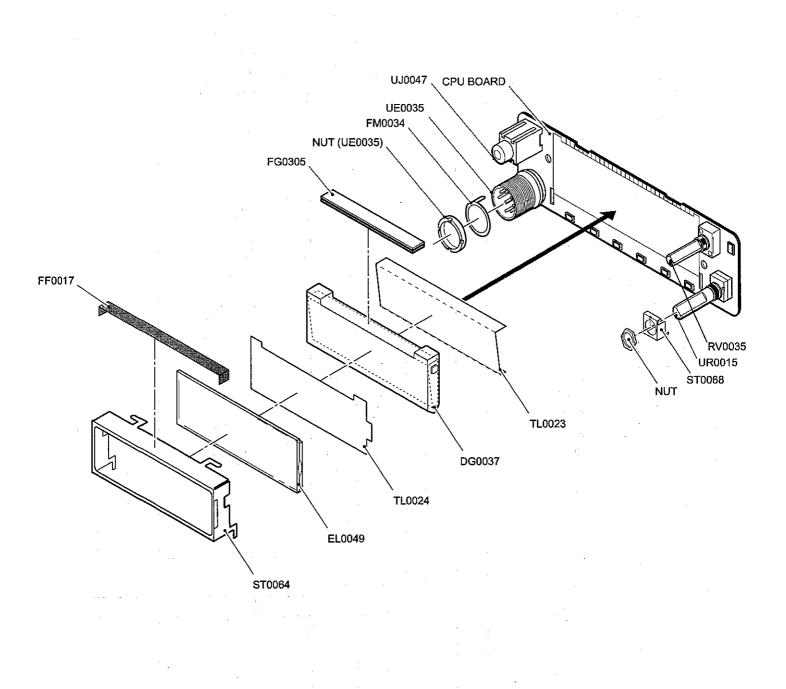


2) Bottom View



3) LCD Assembly

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PARTS LIST

CPU Unit

Ref No.	Part No.	Description	Parts Name		ty. DR-435	Ver.	Ref No.	Part No.	Description	Parts Name	Q DR-135	ly. DR-435	5 V€
C1	CU3554	Chip C.	GRM155B11A104KA01D	1	1		R43	RK3550	Chip R.	ERJ2GEJ103X	1	1	1
2	CU3554	Chip C.	GRM155B11A104KA01D	1	1		R44	RK3026	Chip R.	MCR03EZPJ101	1	1	
3	CU3549	Chip C.	GRM155B11C153KA01D		1		R45	RK3550	Chip R.	ERJ2GEJ103X	1	1	
4 5	CU3549	Chip C.	GRM155B11C153KA01D		11		R48	RK3538	Chip R.	ERJ2GEJ102X	1	1	
	CU3554	Chip C.	GRM155B11A104KA01D				R50	RK3570	Chip R.	ERJ2GEJ474X	1	1	1
5	CU3523 CU3523	Chip C. Chip C.	GRM1552C1H101JD01D GRM1552C1H101JD01D				R51 R52	RK3538 RK3538	Chip R.	ERJ2GEJ102X	1	1	
7 8	CU3543	Chip C.	GRM155B11E472KA01D				R52	RK3562	Chip R. Chip R.	ERJ2GEJ102X ERJ2GEJ104X			
9	CU3554	Chip C.	GRM155B11A104KA01D				R54	RK3550	Chip R.	ERJ2GEJ104X		1	
10	CU3543	Chip C.	GRM155B11E472KA01D		l i		R55	RK3574	Chip R.	ERJ2GEJ105X	1	1	
11	CU3543	Chip C.	GRM155B11E472KA01D				R56	RK3550	Chip R.	ERJ2GEJ103X	1	li	
12	CU3553	Chip C.	GRM155B11A473KA01D	li	li		R57	RK3566	Chip R.	ERJ2GEJ224X	i	li	
13	CS0049	Chip tantalum	TMCSA1C105MTRF	1	1		R58	RK3534	Chip R.	ERJ2GEJ471X	1	1	
14	CU3514	Chip C.	GRM1552C1H180JZ01D	1	1		R59	RK3526	Chip R.	ERJ2GEJ101X	1	1	
15	CU3514	Chip C.	GRM1552C1H180JZ01D	1	1		R60	RK3034	Chip R.	MCR03EZPJ471	1	1	
16	CU3535	Chip C.	GRM155B11H102KA01D	1	1		R61	RK3574	Chip R.	ERJ2GEJ105X	1	1	
:17	CS0424	Chip tantalum	TMCMA1C106MTR	1	· 1		R62	RK3550	Chip R.	ERJ2GEJ103X	1	1	
18	CU3535	Chip C.	GRM155B11H102KA01D	1	1		R63	RK3526	Chip R.	ERJ2GEJ101X	1	1	
19	CU3554	Chip C.	GRM155B11A104KA01D		1		R64	RK3549	Chip R.	ERJ2GEJ822X	1	1	
20	CU3547	Chip C.	GRM155B11C103KA01D	1	1	Ľ	R65	RK3526	Chip R.	ERJ2GEJ101X	1	1	
21	CU3547	Chip C.	GRM155B11C103KA01D	1			R66	RK3550	Chip R.	ERJ2GEJ103X	1	1	
22 23	CU3535	Chip C.	GRM155B11H102KA01D		1		R67	RK3526 RK3550	Chip R.	ERJ2GEJ101X		1	
	CU3547	Chip C.	GRM155B11C103KA01D			1 1	R68		Chip R.	ERJ2GEJ103X ERJ2GEJ104X		1	
24 25	CU3535 CU3535	Chip C. Chip C.	GRM155B11H102KA01D GRM155B11H102KA01D	1			R70 R71	RK3562 RK3574	Chip R. Chip R.	ERJ2GEJ104X ERJ2GEJ105X	1	1	
26	CU3535	Chip C.	GRM155B11H102KA01D				R72	RK3550	Chip R.	ERJ2GEJ103X			1
20	CU3535	Chip C.	GRM155B11H102KA01D				R72	RK3032	Chip R.	MCR03EZPJ331	l ¦	1	
N1	UE0291	Connector	17R-JE(LF)(\$N)		1		R74	RK3526	Chip R.	ERJ2GEJ101X	li		
N2	UE0291	Connector	17R-JE(LF)(SN)	l i	li		R76	RK3532	Chip R.	ERJ2GEJ331X	li	1	
NЗ	UE0035		MIC FM214-8SMPY	l i	1		R79	RK3538	Chip R.	ERJ2GEJ102X	1 1	1	E
1	XL0069	Chip LED	FA1111C-TR	1	1	1 1	R80	RK3538	Chip R.	ERJ2GEJ102X	1	1	
2	XL0077	Chip LED	FA1111C-732-TR	1	1		R83	RK3538	Chip R.	ERJ2GEJ102X	1	1	
3	XL0077	Chip LED	FA1111C-732-TR	1	1		R85	RK3546	Chip R.	ERJ2GEJ472X	1	1	
4	XL0069	Chip LED	FA1111C-TR	1	1	1 1	R87	RK3554	Chip R.	ERJ2GEJ223X	1	1	
5	XL0077	Chip LED	FA1111C-732-TR	1	1		R88	RK3550	Chip R.	ERJ2GEJ103X	1	1	1
6	XL0077	Chip LED	FA1111C-732-TR	1	1		R89	RK3558	Chip R.	ERJ2GEJ473X	1	1	L
8	XD0323	Chip Diode	MA2S11100L	1	1		R90	RK3558	Chip R.	ERJ2GEJ473X	1	1	
9	XD0234	Chip Diode	MA2J72800L		1		R98	RK3501	Chip R.	ERJ2GE0R00X	1	1	
11	XL0077	Chip LED	FA1111C-732-TR	1	1		RE1	UR0015	Dial	RH90N74E20-A90770	11	1	
17	XD0234	Chip Diode	MA2J72800L	1	1		SW1	UU0015Z	Switch	EVQPPPA25	1	0	
;1 ;2	XA1130 XA0604Z	CPU IC	CPU DR135MK3 BR24L32FJ-WE2		1		SW1 SW2	UU0042 UU0015Z	Switch Switch	SKQYAAE010	0	1	1
24	XA0620	ic	S80845CLMC-866-T2G		1		SW2	UU00042	Switch	EVQPPPA25 SKQYAAE010	l ¦	1	
26	XA0348	TC4W53FU	TC4W53FU(TE12L)		1		SW3	UU0015Z	Switch	EVQPPPA25	Ĭ	ò	
ĸĩ	UJ0047	Jack	HSJ2013-01-120		1		SW3	UU0042	Switch	SKQYAAE010	ò	1	
P3	MACL04G	Wire	#30AH1-040-H1	l i	li	FXE	SW4	UU0015Z	Switch	EVQPPPA25	Ĭ	ò	
CD1	EL0049	LCD	TTR3626 UPTDHN	l i	1		SW4	UU0042	Switch	SKQYAAE010	o l	Ĩ	
14	XU0210	Chip	RN1107MFV(TPL3)	1	1		SW5	UU0015Z	Switch	EVQPPPA25	1	Ó	
26	XT0095	Chip	2SC4081 T106R	1	1		SW5	UU0042	Switch	SKQYAAE010	0	1	
17	XT0170	Chip	2SB0766ARL	1	1		SW6	UU0015Z	Switch	EVQPPPA25	1	0	
B	XU0210	Chip	RN1107MFV(TPL3)	1	1		SW6	UU0042	Switch	SKQYAAE010	0	1	Ł
10	XU0210	Chip	RN1107MFV(TPL3)	1	1		SW7	UU0015Z	Switch	EVQPPPA25	1	0	
11	XU0211	Chip	RN2107FV (TPL3)	1	1		SW7	UU0042	Switch	SKQYAAE010	0	1	Ľ
12	XU0211	Chip	RN2107FV (TPL3)	1	1		VR1	RV0035	Variable R.	EVUF2JFK4B14	1	1	Ľ
1	RK3554	Chip R.	ERJ2GEJ223X	1	1		X1	XQ0131	Xtal	CSA310 3.6864MHZ	1	1	
4	RK3554	Chip R.	ERJ2GEJ223X		1			DG0037		LCD LIGHT DR135	1 1	1	
5	RK3550	Chip R.	ERJ2GEJ103X	1	1			FG0305		LCD RUB.CONNECT.		1	
6	RK3550		ERJ2GEJ103X	1	1			FM0034		MIC GND PLATE		1	1
7 8	RK3026 RK3026	Chip R.	MCR03EZPJ101 MCR03EZPJ101	1	1			FP0034 FP0234	1	MIC SPACER DR110		1	1
	RK3026	Chip R. Chip R.	MCR03EZPJ331	1	1			ST0064		MIC SPACER A DR135		1	1
	RK3546	Chip R.	ERJ2GEJ472X	1	1			ST0068		DIAL FITTING DR135		1	L
13	RK3001		MCR03EZPJ000	1		FXE		TL0023		REFLECTION DR135	l i	1	Т
14	RK3548	Chip R.	ERJ2GEJ682X		1			TL0023		DIFFUSION SHEET 135	1	1	
15	RK3501		ERJ2GE0R00X		1			YZ0042		CEMENT G17 / 1G		1	Т
16	RK3001	Chip R.	MCR03EZPJ000	1	1	FX	L						-
	RK3562	Chip R.	ERJ2GEJ104X	1	1								
20	RK3546	Chip R.	ERJ2GEJ472X	1	1			NI 1 8	4 00 49	r			
22	RK3538	Chip R.	ERJ2GEJ102X	1	1		MA		t DR-13	5			
	RK3550	Chip R.	ERJ2GEJ103X	1	1		Ref No.	Dad No.	Description	Dago Mamo		hu .	T.
26	RK3550	Chip R.	ERJ2GEJ103X	1	1			Part No.	Description	Parts Name	٩	.y.	1
27	RK3550	Chip R.	ERJ2GEJ103X	1	1		C104	CU3047	Chip C.	C1608JB1H103KT-NS			Г
28	RK3538	Chip R.	ERJ2GEJ102X	1	1		C105	CS0394	Chip tantalum	TMCMB0J476MTRF			L
	RK3538		ERJ2GEJ102X	1	1			CU3554	Chip C.	GRM155B11A104KA01D	· · ·		L
0	RK3538		ERJ2GEJ102X	1	1			CU3547	Chip C.	GRM155B11C103KA01D			
2	RK3544		ERJ2GEJ332X	1	1			CE0339	Electrolytic C.	16ME10SWB+TS-ALC			
3	RK3534		ERJ2GEJ471X	1	1			CU3554	Chip C.	GRM155B11A104KA01D			
4	RK3547		ERJ2GEJ562X	1	1		C112	CU3554	Chip C.	GRM155B11A104KA01D			L
5	RK3552		ERJ2GEJ153X	1	1			CU3047	Chip C.	C1608JB1H103KT-NS	1		
6	RK3562		ERJ2GEJ104X	1	1			CU3547	Chip C.	GRM155B11C103KA01D			1
87	RK3549		ERJ2GEJ822X	1	1			CU3019	Chip C.	C1608CH1H470JT-NS			L
8	RK3551		ERJ2GEJ123X	1	1			CU3547	Chip C.	GRM155811C103KA01D	1		
9			ERJ2GEJ473X	1	1			CU3522	Chip C.	GRM1552C1H820JD01D	:		
ю	RK3562 RK3526		ERJ2GEJ104X ERJ2GEJ101X	1	1			CU3503 CU3502	Chip C. Chip C.	GRM1554C1H2R0CZ01D GRM1554C1H1R0CZ01D			L
1							10122	LUCOUZ	INTER D.	13134133411717012010			

ſ	Ref No.	Part No,	Description	Parts Name	Qty.	Ver.	1	Ref No.	Part No.	Description	Parts Name	Qty.	Ver.
	C130	CU0108	Chip C.	LMK212BJ105KG-T	1		1	C248	CU3547	Chip C.	GRM155B11C103KA01D	1	
	C131 C132	CU3535 CU3535	Chip C.	GRM155B11H102KA01D GRM155B11H102KA01D	1			C249 C250	CU3538 CU3526	Chip C. Chip C.	GRM155B11H182KA01D GRM1552C1E181JD01D	1	
	C132		Chip C. Chip C.	GRM1554C1H2R0CZ01D	1			C252	CU3535	Chip C.	GRM155B11H102KA01D	1	
	C135	CU3547	Chip C.	GRM155B11C103KA01D	1			C253	CU3549	Chip C.	GRM155B11C153KA01D	1	
	C136		Chip C.	C1608CH1H100DT-NS	1			C254	CU3111	Chip C.	C1608JB1E104KT-NS	1	
	C137		Chip C.	GRM1552C1H330JZ01D	1			C255 C256	CE0364 CU3111	Electrolytic C. Chip C.	16ME47SWB+TS C1608JB1E104KT-NS	1	
	C139 C140	CU3517 CU3517	Chip C. Chip C.	GRM1552C1H330JZ01D GRM1552C1H330JZ01D	1			C256 C257	CE0339	Electrolytic C.	16ME10SWB+TS-ALC	1	
	C143	CU3554	Chip C.	GRM155B11A104KA01D	1			C258	CU0108	Chip C.	LMK212BJ105KG-T	1	
	C144		Chip C.	GRM155B11C103KA01D	1			C260	CE0339		16ME10SWB+TS-ALC	1	
	C145	CU3503	Chip C.	GRM1554C1H2R0CZ01D	1		· ·	C261	CU3535	Chip C.	GRM155B11H102KA01D GRM155B11H102KA01D	1	
	C146 C148	CE0364 CU3517	Electrolytic C. Chip C.	16ME47SWB+TS GRM1552C1H330JZ01D	1			C262 C263	CU3535 CS0424	Chip C. Chip tantalum	TMCMA1C106MTRF	1	
	C149	CU3517	Chip C.	GRM1552C1H330JZ01D	1			C264	CU3519	Chip C.	GRM1552C1H470JZ01D	1	
	C151	CU3547	Chip C.	GRM155B11C103KA01D	1			C265	CU3535	Chip C.	GRM155B11H102KA01D	1	
	C152	CE0339	Electrolytic C.	16ME10SWB+TS-ALC	" 1			C266 C267	CU3503 CU3535	Chip C.	GRM1554C1H2R0CZ01D GRM155B11H102KA01D	1	
	C153 C154	CU3535 CU3535	Chip C. Chip C.	GRM155B11H102KA01D GRM155B11H102KA01D	1			C267	CU3535	Chip C. Chip C.	GRM155B11H102KA01D	1	
	C155		Chip C.	GRM1552C1H5R0CZ01D	1			C269	CU3535	Chip C.	GRM155811H102KA01D	1	
	C157	CU3535	Chip C.	GRM155B11H102KA01D	1			C270	CU3047	Chip C.	C1608JB1H103KT-NS	1	
	C158		Chip C.	GRM155B11H102KA01D	1			C271	CU3535	Chip C.	GRM155811H102KA01D	1	
	C159 C163	CU3535 CU3535	Chip C. Chip C.	GRM155B11H102KA01D GRM155B11H102KA01D	1			C272 C273	CS0220 CS0220	Chip tantalum Chip tantalum	TMCMA1C225MTRF TMCMA1C225MTRF	1	
	C164		Chip C.	GRM155B11H102KA01D	1			C274	CU3535	Chip C.	GRM155B11H102KA01D	1	
	C165	CU3559	Chip C.	GRM155B30J105KE18D	1		L .	C275	CU3547	Chip C.	GRM155B11C103KA01D	1	
	C166		Electrolytic C.	18ME22\$Z GRM1552C1E221JD01D	1			C276 C277	CE0339 CE0343	Electrolytic C. Electrolytic C.	16ME10SWB+TS-ALC 16ME1000HC+T	1	
	C169 C170	CU3527 CU3554	Chip C. Chip C.	GRM15520122215001D	1			C278	CU3535	Chip C.	GRM155B11H102KA01D	1	
	C171	CU3515	Chip C.	GRM1552C1H220JZ01D	1			C279	CU3551	Chip C.	GRM155B11C223KA01D	1	1 1
	C173		Chip C.	GRM155B11H102KA01D	1 -			C281	CU3512	Chip C.	GRM1552C1H120JZ01D	1	
	C174		Chip C. Chip C.	GRM1552C1E221JD01D	1			C282 C283	CU3502 CU3531	Chip C. Chip C.	GRM1554C1H1R0CZ01D GRM155B11H471KA01D	1	
	C175 C178		Chip C.	GRM155B11H102KA01D GRM155B11A104KA01D	1			C284	CU3502	Chip C.	GRM1554C1H1R0CZ01D	1	
	C179		Chip C.	GRM155B11A104KA01D	1			C285	CU3535	Chip C.	GRM155B11H102KA01D	1	
	C180		Chip C.	GRM155B11H102KA01D	1			C286	CU3027	Chip C.	C1608CH1H221JT-NS	1	
	C183		Chip C. Chip tantalum	C1608JB1H102KT-NS	1			C287 C288	CS0063 CU3511	Chip tantalum Chip C.	TMCSA1V104MTRF GRM1552C1H100JZ01D	1	
	C185 C186	CU3511	Chip C.	TMCMA1V474MTRF GRM1552C1H100JZ01D	1			C289	CU3535	Chip C:	GRM155B11H102KA01D	1	
	C187	CU3535	Chip C.	GRM155B11H102KA01D	1	l		C290	CU3535	Chip C.	GRM155B11H102KA01D	1	
	C188	CU3535	Chip C.	GRM155B11H102KA01D	1			C293	CU3535	Chip C.	GRM155B11H102KA01D	1	
	C189 C190	CU3D19 CU3547	Chip C. Chip C.	C1608CH1H470JT-NS GRM155B11C103KA01D	1			C294 C295	CU3035 CU3551	Chip C. Chip C.	C1608J81H102KT-NS GRM155B11C223KA01D	1	
	C190	CU3552	Chip C.	GRM155B11A333KA01D	1			C296	CU3511	Chip C.	GRM1552C1H100JZ01D	1	
	C193	CU4033	Chip C.	GRM31BR72J102KW01L	1	1		C297	CU3535	Chip C.	GRM155B11H102KA01D	1	
	C194	CU3019	Chip C.	C1608CH1H470JT-NS	1	1		C299	CU3547	Chip C.	GRM155B11C103KA01D	1	
	C195 C196	CU3015 CU3516	Chip C. Chip C.	C1608CH1H220JT-NS GRM1552C1H270JZ01D	1			C300 C301	CU3515 CU3523	Chip C. Chip C.	GRM1552C1H220JZ01D GRM1552C1H101JD01D	1	
	C199	CE0339	Electrolytic C.	16ME10SWB+TS-ALC	1			C302	CU3523	Chip C.	GRM1552C1H101JD01D	1	
	C200	CU3035	Chip C.	C1608JB1H102KT-NS	1			C303	CU3523	Chip C.	GRM1552C1H101JD01D	. 1	
	C201	CU4013	Chip C.	GRM42-6CH150J500PT	1			C304	CU3535	Chip C.	GRM155B11H102KA01D	1	
	C202 C203	CU4016 CU4016	Chip C. Chip C.	GRM42-6CH270J500PT GRM42-6CH270J500PT	1		ł	C305 C306	CU3547 CU3554	Chip C. Chip C.	GRM155B11C103KA01D GRM155B11A104KA01D	1	
	C204	CU4011	Chip C.	GRM42-6CH100D500PT	1			C307	CU3547	Chip C.	GRM155B11C103KA01D	1	
	C205	CU3035	Chip C.	C1608JB1H102KT-NS	1		i –	C308	CE0342	Electrolytic C.	16ME470HC+TS	1	
	C206	CE0339	Electrolytic C.	16ME10SWB+TS-ALC	1		ļ	C309	CU3551	Chip C.	GRM155B11C223KA01D		
	C207 C208	CU3064 CU3064	Chip C. Chip C.	C1608CH1H1R5CT-NS C1608CH1H1R5CT-NS	- 1			C310 C312	CU3523 CU3511	Chip C. Chip C.	GRM1552C1H101JD01D GRM1552C1H100JZ01D	1	
				C1608JB1H102KT-NS	1			C313	CU3535		GRM155B11H102KA01D	1	
	C210	CU3011	Chip C.	C1608CH1H100DT-NS	1 .	· · ·	1	C321	CS0220		TMCMA1C225MTRF	1	
	C211	CU3011	Chip C.	C1608CH1H100DT-NS	1		I I	C322 C328	CU3035 CU0108	Chip C. Chip C.	C1608JB1H102KT-NS LMK212BJ105KG-T	1	
	C212 C213	CE0364 CU3035	Electrolytic C. Chip C.	16ME47SWB+TS C1608JB1H102KT-NS	1			C331	CU3547	Chip C.	GRM155B11C103KA01D	1	
		CU4015	Chip C.	GRM42-6CH220J500PT	1			C332	CE0339	Electrolytic C.	16ME10SWB+TS-ALC	1	
	C216	CU4015	Chip C.	GRM42-6CH220J500PT	1			C333	CU3535	Chip C.	GRM155B11H102KA01D GRM155B11C153KA01D	1	
	C217 C218	CU3551 CU3551	Chip C. Chip C.	GRM155B11C223KA01D GRM155B11C223KA01D	1			C401 C402	CU3549 CU3550	Chip C. Chip C.	GRM155811C153KA01D GRM155811C183KA01D	1	
		CU3035	Chip C.	C1608JB1H102KT-NS	1			C403	CU3552	Chip C.	GRM155B11A333KA01D	1	
	C220	CU3035	Chip C.	C1608JB1H102KT-NS	1			C404	CU3559	Chip C.	GRM155B30J105KE18D	1	
		CU3535	Chip C.	GRM155B11H102KA01D	1		i i	C405 C406	CU3542	Chip C.	GRM155B11H392KA01D GRM155B11E682KA01D	1	
	C223 C224	CE0364 CU3023	Electrolytic C. Chip C.	16ME47SWB+TS C1608CH1H101JT-NS			I I	C408	CU3545 CU3541	Chip C. Chip C.	GRM155B11H332KA01D	1	
			Chip C.	C1608JB1H102KT-NS	1		1	C408	CU3544	Chip C.	GRM155B11E562KA01D	1	
	C226	CU3035	Chip C.	C1608JB1H102KT-NS	1			C409	CU3535	Chip C.	GRM155B11H102KA01D	1	
		CU0108	Chip C.	LMK212BJ105KG-T	1		1	C410	CU3539	Chip C.	GRM155B11H222KA01D LMK212BJ105KG-T	1	
	C228 C229	CU3535 CU3553	Chip C. Chip C.	GRM155B11H102KA01D GRM155B11A473KA01D	1			C412 C413	CU0108 CU3541	Chip C. Chip C.	GRM155B11H332KA01D	· 1	
	C230	CU3535	Chip C.	GRM155B11H102KA01D	i		1	C414	CU3542	Chip C.	GRM155B11H392KA01D	1	
	C231	CU3535	Chip C.	GRM155B11H102KA01D	1		1	C415	CU3545	Chip C.	GRM155B11E682KA01D	1	
	C232	CU3535	Chip C.	GRM155B11H102KA01D	1			C417 C418	CU3547 CU3547	Chip C. Chip C.	GRM155B11C103KA01D GRM155B11C103KA01D	1	
	C233 C235	CU3535 CU3504	Chip C. Chip C.	GRM155B11H102KA01D GRM1553C1H3R0CZ01D	1	1		C418 C419	CU3547 CU3547	Chip C. Chip C.	GRM155B11C103KA01D GRM155B11C103KA01D	1	
	C235	CU3535	Chip C.	GRM155B11H102KA01D	i			C427	CU3559	Chip C.	GRM155B30J105KE18D	1	
	C238	CU3111	Chip C.	C1608JB1E104KT-NS	1			C428	CU0110	Chip C.	C2012JB1A475KT-NS	1	
	C239	CU3535	Chip C.	GRM155B11H102KA01D GRM1552C1H820JD01D				C601 C607	CU3515 CU3511	Chip C. Chip C.	GRM1552C1H220JZ01D GRM1552C1H100JZ01D	1	
·	C241 C242	CU3522 CU3551	Chip C. Chip C.	GRM1552C1H820J001D GRM155B11C223KA01D				C611	CU0108	Chip C.	LMK212BJ105KG-T	1	
		CE0339	Electrolytic C.	16ME10SWB+TS-ALC	1		1	C613	CU3515	Chip C.	GRM1552C1H220JZ01D	1	
	C244	CE0339	Electrolytic C.	16ME10SWB+TS-ALC	1				UE0369	Connector	AXN49301616		
	C245	CU0 108 CU3 543	Chip C.	LMK212BJ105KG-T					UE0293 UE0293	Connector Connector	17PS-JE 17PS-JE	1	
	C246	003043	Chip C.	GRM155B11E472KA01D			1	011103	920200	4011100101			-

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Ref No.		Description	Parts Name	Qty.	Ver.	IL	Ref No.	Part No.	Description	Parts Name	Qty.	Ver.
	UA0037AY	Wire	R-B2.0X0.2M PLUG 15A	1			Q138	XU0210	Chip	RN1107MFV(TPL3)		T
CN106 D102	UE0043 XD0132	Connector Chip Diode	P122A02M 1SV215(TPH2,F)	1 • 1				XU0211 XT0095	Chip Chip	RN2107MFV(TPL3) 2SC4081 T106R	1	•
D103	XD0132	Chip Diode	1SV215(TPH2,F)	1				XT0124	Chip	2SC4215-Y(TE85L,F)		
D104	XD0132	Chip Diode	1SV215(TPH2,F)	1				XU0209	Chip	EMD6T2R	l i	
D105	XD0132	Chip Diode	1SV215(TPH2,F)	1				XU0195	Chip	RN1104(TE85L,F)	l i	
D106	XD0402	Chip Diode	VDZT2R 5.1B	1	[XU0210	Chip	RN1107MFV(TPL3)	1	
D108	XD0130	Chip Diode	DA204U T105	1				XU0210	Chip	RN1107MFV(TPL3)	1	1
D109	XD0301	Chip Diode	1SV268-TD-E	1				XU0211	Chip	RN2107MFV(TPL3)	1	1
D110	XD0013	Diode	L407CDB	1				RK3530	Chip R.	ERJ2GEJ221X	1	1
D111	XD0375	Chip Diode	MA4Z71300L MA4Z71300L	1				RK3554	Chip R.	ERJ2GEJ223X		1
D112 D113	XD0375 XD0323	Chip Diode	MA4271300L MA2S11100L	1				RK3554 RK3526	Chip R.	ERJ2GEJ223X		1
D114	XD0141	Chip Diode	1\$V237(TE85L,F)	1				RK3526	Chip R. Chip R.	ERJ2GEJ101X ERJ2GEJ101X		1
D115	XD0320	Chip Diode	DAN235E-TL	i				RK3526	Chip R.	ERJ2GEJ101X	l · i	1
D116	XD0320	Chip Diode	DAN235E-TL	1				RK3542	Chip R.	ERJ2GEJ222X	1	1
D118	XD0130	Chip Diode	DA204U T106	1				RK3540	Chip R.	ERJ2GEJ152X	1 1	1
D119	XD0323	Chip Diode	MA2\$11100L	1				RK3534	Chip R.	ERJ2GEJ471X	1	1
D120	XD0374	Chip Diode	1SV278(TPH2,F)	1				RK3562	Chip R.	ERJ2GEJ104X	1	1
D121	XD0414	Dicde	S3V60-5000	1				RK3526	Chip R.	ERJ2GEJ101X	1	1
D122	XD0376	Chip Diode	1SV282(TPH2,F)	1				RK3541	Chip R.	ERJ2GEJ182X	1	ŀ
	XD0376	Chip Diode	1SV282(TPH2,F)	1				RK3552	Chip R.	ERJ2GEJ153X	1	1
D125 D130	XD0342 XD0323	Chip Diode Chip Diode	1SS390 TE61 MA2S11100L	1				RK3562 RK3550	Chip R.	ERJ2GEJ104X ERJ2GEJ103X		1
D136	XD0395		UDZS TE-17 5.6B	1			R130	RK3562	Chip R. Chip R.	ERJ2GEJ103X		1
D402	X00323		MA2S11100L	1				RK3562	Chip R.	ERJ2GEJ104X	1	
	XD0131	Chip Diode	1SV214(TPH4,F)	1				RK3550	Chip R.	ERJ2GEJ103X	i	1
FL101	XC0070		ALFYM450E=K	1				RK3538	Chip R.	ERJ2GEJ102X	1	1
FL102	XC0052	Ceramic Filter	ALFYM450G=K	1			R134	RK3553	Chip R.	ERJ2GEJ183X	1.	· [
IC101	XA0947	IC	NJM78M05DL1ATE1#ZZ	1				RK3534	Chip R.	ERJ2GEJ471X	1	1
		10	LM2902PWR	1				RK3542	Chip R.	ERJ2GEJ222X	1	1
			TA31136FNG(EL)	1				RK3542	Chip R.	ERJ2GEJ222X	-1	1
IC109 IC110			TC4S66F(TE85R,F) RA60H1317M1-101	1				RK3552 RK3552	Chip R. Chip R.	ERJ2GEJ153X ERJ2GEJ153X		1
		IC IC	TC4S66F(TE85R,F)	1				RK3552	Chip R.	ERJ2GEJ103X		1
		ic	TC4\$66F(TE85R,F)	i				RK3538	Chip R.	ERJ2GEJ102X	i	
		iC	LM2902PWR	1				RK3562	Chip R.	ERJ2GEJ104X	i	1
		IC	NJM7808FA-#ZZZB	1				RK3550	Chip R.	ERJ2GEJ103X	1 .	
			MB15E07SRPFTGBNDE	1		1	R152	RK3538	Chip R.	ERJ2GEJ102X	1	1
			LA4425A-E	1				RK3562	Chip R.	ERJ2GEJ104X	1	1.
			LM2904PWR	1				RK3552	Chip R.	ERJ2GEJ153X	1	
	XA1135		74LV1GW04ASCE-E	1				RK3558	Chip R.	ERJ2GEJ473X	1	
JK102 L101			LGY6501-0900FC NLV32T-2R2J-PFS	1				RK3562 RK3522	Chip R. Chip P	ERJ2GEJ104X ERJ2GEJ470X	1	
			#V666SNS-063DAQ	1				RK3562	Chip R. Chip R.	ERJ2GEJ104X	i	
		Coil	#V6665NS-063DAQ	i				RK3562	Chip R.	ERJ2GEJ104X		
L104		Coil	#V666SNS-063DAQ	1				RK3521	Chip R.	ERJ2GEJ390X	1	
L105	QA0112	Coil	#V666SNS-063DAQ	1				RK3514	Chip R.	ERJ2GEJ100X	1	
L111			MR3.0 4.5T 0.8	1				RK3025	Chip R.	MCR03EZPJ820	1	
			MR3.0 3.5T 0.6	1				RK3574	Chip R.	ERJ2GEJ105X	1	
			MR3.0 4.5T 0.8	1				RK3562	Chip R.	ERJ2GEJ104X	1	
L114			MR3.0 4,5T 0.8	1				RK3564	Chip R.	ERJ2GEJ154X	-]	
L115 L116			MR3.0 4.5T 0.8 MR3.0 4.5T 0.8	1				RK3554 RK3562	Chip R. Chip R.	ERJ2GEJ223X	1	
L117			NLV32T-068J-PFS	, 1				RK3562	Chip R.	ERJ2GEJ104X ERJ2GEJ104X		
			MR3.0 9.5T 0.6	1				RK3526	Chip R.	ERJ2GEJ101X	1	1
			LQW2BHNR22J03L	1				RK3544	Chip R.	ERJ2GEJ332X	1	1.
L120			LQW2BHN47NJ03L	1					Chip R.	ERJ2GEJ334X	1	
			NLV25T-2R2J-PFS	,1		F	R184	RK3526	Chip R.	ERJ2GEJ101X	1	1.
			NLV25T-1R0J-PFS	1				RK3570	Chip R.	ERJ2GEJ474X	1	1
			#657BN-1652GNA=P3	1					Chip R.	ERJ2GEJ104X	1	
			LK10051R0K-T	1						ERJ2GEJ473X	1	1
			LL1608-FSLR10J NLV25T-1R0J-PFS	1				RK3538 RK3538	Chip R. Chip R.	ERJ2GEJ102X ERJ2GEJ102X	1	1
			LQW2BHN47NJ03L	1					Chip R. Chip R.	ERJ2GEJ102X ERJ2GEJ102X	· •	
			RN1107MFV(TPL3)	i					Chip R.	ERJ2GEJ102X	1	1
Q105	XT0178		2SC4915-O(TE85L,F)	1					Chip R.	ERJ2GEJ474X	1	1
Q106	XE0053	Chip FET	3SK293(TE85L,F)	1					Chip R.	ERJ2GEJ102X	1	1
	XE0053	Chip FET	3SK293(TE85L,F)	1	1.1	F	R200	RK3570	Chip R.	ERJ2GEJ474X	1	1.1
			RN1107MFV(TPL3)	1					Chip R.	ERJ6GEYJ471V	1	1.
			2SD2620J0L	1.					Chip R.	ERJ2GEJ333X	1	1
			2SD2620J0L 2SC5551 TD E	1						ERJ2GEJ104X	1	4
			2SC5551-TD-E 2SA1036K T146Q	1					Chip R. Chip R.	ERJ6GEYJ104V	1	
			2SC4081 T106R						Chip R.	ERJ6GEYJ150V ERJ2GEJ153X	1	1
			RN1107MFV(TPL3)	1					Chip R.	ERJ2GEJ471X	1	1
			XP0121500L	i						ERJ2GEJ823X	1	
2122			2SB1386 T100Q	1					Chip R.	ERJ2GEJ102X	1	
			2\$80766ARL	1		F	R211	RK4018	Chip R.	ERJ12YJ220U	1	1
			EMD6T2R	1					Chip R.	ERJ12YJ101U	1	1
			2SK880-GR(TE85L,F)	1					Chip R.	ERJ2GEJ822X	1	1
			RN1107MFV(TPL3)	1	· ·					ERJ2GEJ103X	1	
			2SC4081 T106R							ERJ2GEJ272X	1	11
			RN1107MFV(TPL3)							MCR03EZPJ103	1	
			RN1104(TE85L,F) 2\$K2539-TB-E							MCR03EZPJ103	1	
			RN1107MFV(TPL3)	1					Chip R. Chip R.	ERJ2GEJ223X ERJ2GEJ102X	1	1
			RN1107MFV(TPL3)	1						ERJ12YJ471U	1	1.
			2SC4915-O(TE85L,F)	1						ERJ2GEJ103X	. 1	
104 1					- 1							1
	XT0178	Chip	2SC4915-O(TE85L,F)	1	I	I F	R223	RK3526 🕔	Chip R.	ERJ2GEJ101X	1	· ·

Ref No		Description	Parts Name	Qty.	Ver.	Ref No		Description	Parts Name	Qty.	Ver.
R225 R226	RK3545 RK3038	Chip R. Chip R.	ERJ2GEJ392X MCR03EZPJ102	1		R402 R403	RK3551 RK3542	Chip R. Chip R.	ERJ2GEJ123X ERJ2GEJ222X	1	
R227	RK3501	Chip R.	ERJ2GEOR00X	1		R404	RK3562	Chip R.	ERJ2GEJ104X	1	
R228	RK3538	Chip R.	ERJ2GEJ102X	1		R405	RK3563	Chip R.	ERJ2GEJ124X	1	
R229	RK3551	Chip R.	ERJ2GEJ123X	1		R406	RK3559	Chip R.	ERJ2GEJ563X	1	
R230 R231	RK3546 RK3050	Chip R. Chip R.	ERJ2GEJ472X MCR03EZPJ103	1		R407 R408	RK3562 RK3558	Chip R. Chip R.	ERJ2GEJ104X ERJ2GEJ473X	1	
R232	RK3526	Chip R.	ERJ2GEJ101X	1		R409	RK3560	Chip R.	ERJ2GEJ683X	1	1 1
R233	RK3538	Chip R.	ERJ2GEJ102X	1	ΙÍ	R410	RK3557	Chip R.	ERJ2GEJ393X	1	1 1
R234	RK3556	Chip R.	ERJ2GEJ333X	1		R411	RK3562	Chip R.	ERJ2GEJ104X	1	1 1
R235 R236	RK3562 RK3551	Chip R. Chip R.	ERJ2GEJ104X ERJ2GEJ123X	1	1	R412 R413	RK3550 RK3550	Chip R. Chip R.	ERJ2GEJ103X ERJ2GEJ103X		1 1
R237	RK3526	Chip R.	ERJ2GEJ101X	1		R414	RK3566	Chip R.	ERJ2GEJ224X	1	· · ·
R238	RK3562	Chip R.	ERJ2GEJ104X	1		R415	RK3558	Chip R.	ERJ2GEJ473X	1	
R239 R241	RK3550 RK3550	Chip R.	ERJ2GEJ103X ERJ2GEJ103X	1		R416	RK3550	Chip R.	ERJ2GEJ103X	1	1 1
R241	RK3522	Chip R. Chip R.	ERJ2GEJ470X	1		Ř417 R418	RK3570 RK3560	Chip R. Chip R.	ERJ2GEJ474X ERJ2GEJ683X		1
R243	RK3550	Chip R.	ERJ2GEJ103X	1		R419	RK3550	Chip R.	ERJ2GEJ103X	1	
R244	RK3568	Chip R.	ERJ2GEJ334X	1		R420	RK3574	Chip R.	ERJ2GEJ105X	1	
R247 R249	RK3538	Chip R.	ERJ2GEJ102X	1	ΙÍ	R421	RK3568	Chip R.	ERJ2GEJ334X	1	
R249	RK3058 RK3550	Chip R. Chip R.	MCR03EZPJ473 ERJ2GEJ103X	1		R422 R423	RK3562 RK3501	Chip R. Chip R.	ERJ2GEJ104X ERJ2GE0R00X	1	
R253	RK3557	Chip R.	ERJ2GEJ393X	i		R424	RK3501	Chip R.	ERJ2GEOROOX	1	
R254	RK3557	Chip R.	ERJ2GEJ393X	1		R429	RK3501	Chip R.	ERJ2GE0R00X	1	
R255	RK3546	Chip R.	ERJ2GEJ472X	1		R431	RK3558	Chip R.	ERJ2GEJ473X	1	
R256 R258	RK3526 RK3557	Chip R. Chip R.	ERJ2GEJ101X ERJ2GEJ393X	1		R601 R603	RK3558 RK3554	Chip R. Chip R.	ERJ2GEJ473X ERJ2GEJ223X		
R259	RK3550	Chip R.	ERJ2GEJ103X	1		R609	RK3522	Chip R.	ERJ2GEJ270X	1	
R261	RK3554	Chip R.	ERJ2GEJ223X	1		R611	RK3564	Chip R.	ERJ2GEJ154X	1	
R262	RK3562	Chip R. Chip R	ERJ2GEJ104X	1	I I	R613	RK3574	Chip R.	ERJ2GEJ105X	1	
R264 R265	RK3538 RK3546	Chip R. Chip R.	ERJ2GEJ102X ERJ2GEJ472X	1		R615 R617	RK3574 RK3562	Chip R. Chip R.	ERJ2GEJ105X ERJ2GEJ104X	1	
R266	RK3550	Chip R.	ERJ2GEJ103X	1		R619	RK3546	Chip R.	ERJ2GEJ472X	1	
R267	RK3522		ERJ2GEJ470X	1	F	R621	RK3556	Chip R.	ERJ2GEJ333X	1	1 1
R268 R269	RK3550 RK3562	Chip R. Chip R.	ERJ2GEJ103X	1.		R623	RK3546	Chip R.	ERJ2GEJ472X	1	1 1
R270	RK3560	Chip R.	ERJ2GEJ104X ERJ2GEJ683X	1		R627 R629	RK3542 RK3550	Chip R. Chip R.	ERJ2GEJ222X ERJ2GEJ103X	1	
R271	RK4034	Chip R.	ERJ12YJ471U	1		R631	RK3562	Chip R.	ERJ2GEJ104X	1	
R272	RK3550	Chip R.	ERJ2GEJ103X	1		R635	RK3574	Chip R.	ERJ2GEJ105X	1	
R273 R274	RK3562 RK3550	Chip R. Chip R.	ERJ2GEJ104X	1		R637	RK3501	Chip R.	ERJ2GEOROOX	1	
R275	RK3550	Chip R.	ERJ2GEJ103X ERJ2GEJ103X	1	1	SH101 TC601	T\$0172 CT0046	Case Trimmer C.	VCO CASE DR620 TC03C100A-TP02	1	
R276	RK3534		ERJ2GEJ471X	1		TH101	XS0031	Chip	NTCG164BH682JT-S	1	
R278	RK3526	Chip R.	ERJ2GEJ101X	1			X\$0050	Chip	NTCG164QH105JT-S	1	1 1
R279 R280	RK3046 RK3558		MCR03EZPJ472	1			RH0233	Trimmer R.	RH02B1C15X	1	1 1
R281	RK3041	Chip R. Chip R.	ERJ2GEJ473X MCR03EZPJ182	1			RH0231 RH0231	Trimmer R. Trimmer R.	RH02B1CS4X RH02B1CS4X	1	
R282	RK3550	Chip R.	ERJ2GEJ103X	1			RH0233	Trimmer R.	RH02B1C15X	1	1 1
R283	RK3038		MCR03EZPJ102	1		VR106	RH0231	Trimmer R.	RH02B1CS4X	1	1 1
R284	RK3526		ERJ2GEJ101X	1			RH0225	Trimmer R.	RH02B1CS3X	1	1 1
R286 R287	RK3534 RK3546	Chip R. Chip R.	ERJ2GEJ471X ERJ2GEJ472X	1			RH0233 RH0231	Trimmer R. Trimmer R.	RH02B1C15X RH02B1CS4X	1	1 1
R288	RK3547		ERJ2GEJ562X	1			XK0003	Discriminator	CDBLB450KCAY07-B0	1	
R289			ERJ2GEJ152X	1 .		X604	XQ0112	Xtal	UM-5 21.25MHZ	1	1 1
R290 R292	RK3554 RK3518		ERJ2GEJ223X ERJ2GEJ220X	1			XF0041	Xtal Filter	UM5 21.7M 21R15A5	1	11
R293			ERJ2GEJ220X ERJ2GEJ222X	- 1 -		XF102	XF0041 FG0320	Xtal Filter SP Cushion	UM5 21.7M 21R15A5 SP CUSHION DR135	. 1	1.1
R294			ERJ2GEJ472X	1			FG0327		CUSHION DR135	1	
R296			ERJ2GEJ334X	1			SD0034	Spring	GND SPRING DR130	2	
R298 R299		Chip R. Chip R.	ERJ2GEJ222X ERJ2GEJ222X	1				Dumper D C BOARD	SILICON DUMPER	3	
R300		Chip R.	ERJ2GEJ222X ERJ2GEJ101X	1			UP0538A	P.C.BOARD	DR135FX INTEGRATED	1	
R301	RK3538	Chip R.	ERJ2GEJ102X	1							
R302	RK3524	Chip R.	ERJ2GEJ680X	1		MA	NIIni	t DR-43	5		
R303 R304			ERJ2GEJ562X ERJ2GEJ562X	1					· · · · ·		 ,
R304			ERJ2GEJ362X ERJ2GEJ473X	1 .		Ref No.	Part No.	Description	Parts Name	Qty.	Ver.
R307	RK3543	Chip R.	ERJ2GEJ272X	1		C104	CU3547	Chip C.	GRM155B11C103KA01D	1	++
R308	RK3526	Chip R.	ERJ2GEJ101X	1		C105	CE0364	Electrolytic C.	16ME47SWB+TS	1.	
R309 R310	RK3550 RK3526		ERJ2GEJ103X ERJ2GEJ101X	1 .		C107 C108	CU3554	Chip C.	GRM155B11A104KA01D	1	
R310			ERJ2GEJ101X ERJ2GEJ102X	1		C108	CU3547 CE0339	Chip C. Electrolytic C.	GRM155B11C103KA01D 16ME10SWB+TS-ALC	1	
R312	RK3538	Chip R.	ERJ2GEJ102X	1		C110	CU3547	Chip C.	GRM155B11C103KA01D	1	
R313			ERJ2GEJ102X	1		C111	CU3554	Chip C.	GRM155B11A104KA01D	1	
R315 R321			ERJ2GEJ332X ERJ2GEJ272X	1		C112 C113	CU3554 CU3047	Chip C. Chip C	GRM155B11A104KA01D C1608JB1H103KT-NS	1	
R321	RD0108	Jumper	J1/6ZC	1			CU3047 CU3547	Chip C. Chip C.	GRM155B11C103KA01D	1-	
R323	RK3554	Chip R.	ERJ2GEJ223X	1		C116	CU3019	Chip C.	C1608CH1H470JT-NS	1	
R325			ERJ2GEJ224X	1		C117	CU3547	Chip C.	GRM155B11C103KA01D	1	
R337 R339			ERJ2GEJ474X	1			CU3522	Chip C.	GRM1552C1H820JD01D	- 1	
R339 R340			ERJ2GEJ103X ERJ2GEJ103X	1					GRM155B11H102KA01D GRM1552C1H120JZ01D	1 ↓ 1	
R341			ERJ2GEJ823X	1 .			CU3512 CU3547		GRM1552C1H120J2010 GRM155B11C103KA01D	1	
R342	RK3545	Chip R.	ERJ2GEJ392X	. 1		C130	CU0108	Chip C.	LMK212BJ105KG-T	1	
R344			ERJ2GEJ103X	1				Chip C.	GRM155B11H102KA01D	1	
R345 R346	RK3501 RK3561		ERJ2GE0R00X ERJ2GEJ823X	1			CU3535 CU3527	Chip C. Chip C.	GRM155B11H102KA01D GRM1552C1E221JD01D	1	
R347			ERJ2GEJ123X	1			CU3527 CU3547	Chip C.	GRM1552C1E2215D01D GRM155B11C103KA01D	1	
R348	RK3534	Chip R.	ERJ2GEJ471X	1		C136	CU3011	Chip C,	C1608CH1H100DT-NS	1,4	
R349			ERJ2GEJ104X	1				Chip C.	GRM1552C1H330JZ01D	1	
R401	RK3553	Chip R.	ERJ2GEJ183X	1		C139	CU3531	Chip C.	GRM155B11H471KA01D	<u> </u>	

C+H CLUSTS Chip C. GRML55811102204010 C CH4 CLUSTS Chip C. GRML55811102204010	Ref No.	Part No.	Description	Parts Name	Qty.	Ver,		Ref No.		Description	Parts Name	Qty.	Ve
Crite Curysta Chip C. GRMISSET: Cargan Status (Corp.) Corp. Cargan Status (Corp.) <thcorp. (corp.)<="" cargan="" status="" th=""> Corp. Cargan</thcorp.>	C140 C141	CU3535 CU3512	Chip C. Chin C	GRM155B11H102KA01D GRM1552C1H120.IZ01D	1			C250	CU3526 CU3535	Chip C. Chin C	GRM1552C1E181JD01D GRM155B11H102KA01D	1	
CH3 CU354 Ch2, C. CH40UB12000 C CH40UB120000 C CH40UB120000 C CH40UB120000 C C CH40UB120000 C C CH40UB120000 C C C C <												1	
Class Classet					1							1	
C140 CE0304 Electrolytic. IMMCISSUPERST: L1002ACD C153 CL0035 Chip. C. CMMCISSUPERST: L1002ACD CMIP										Electrolytic C.	16ME47SWB+TS	1	
C11 C2385 Chap C. Intercast Intercast C12 C2385 Chap C. Lintercast Chap C. Lintercast C12 C2385 Chap C. Cast Intercast Chap C. Lintercast C12 C2385 Chap C. Cast Intercast Chap C. Cast Intercast C136 C2385 Chap C. Cast Intercast Chap C. Cast Intercast C147 C2385 Chap C. Cast Intercast Chap C. Cast Intercast C147 C2385 Chap C. Cast Intercast Cast Intercast Chap Intercast C147 C2385 Chap C. Cast Intercast Cast Intercast Cast Intercast C141 C2385 Chap C. Cast Intercast Cast Intercast Cast Intercast C141 C2385 Chap C. Cast Intercast Cast Intercast Cast Intercast C141 C2385 Chap C. Cast Intercast Cast Intercast Chap C. Cast Intercast C141 C2385 Chap C. Cas					-							1	
C1:2 CC:23:3 CUUSS: CUUSS: <thcuuss:< th=""> <thcuuss:< th=""> <thcuuss:< th=""></thcuuss:<></thcuuss:<></thcuuss:<>												1	
151 Class Check C												1	
Diffs Cubras Chip C. GRM:558:11102XADD 1 C284 Cubras Chip C. GRM:558:11102XADD Diffs Cubras Chip C. GRM:558:11102XADD 1 C286 Cubras Chip C. GRM:558:11102XADD 1 C286 Cubras Chip C. GRM:558:11102XADD 1 C286 Cubras Chip C. GRM:558:11102XADD 1 C277 Cubras Chip C. GRM:558:1102XADD 1 C277 Cubras Chip C. GRM:558:1102XADD 1 C277 Cubras Chip C. GRM:558:1102XADD 1 C278 Cubras Chip C. GRM:558:1102XADD 1 C278 Cubras Chip C. GRM:558:1102XADD 1 C278 Cubras Chip C. GRM:558:1102XADD 1 C288 Cubra												1	1
115 CLBS11 Chip C. GRM1552C111002/01D 1 C288 CLB335 Chip C. GRM1552C111022/01D 1156 CLB355 Chip C. GRM1552C111022/01D 1 C288 CLB335 Chip C. GRM1554C11202/01D 1 C288 CLB335 Chip C. GRM1554C11202/01D 1 C288 CLB335 Chip C. GRM15581111022/01D 1 C272 CCB320 Chip Intelline TLB27/21D CLB335 Chip C. GRM15581111022/01D 1 C272 CCB335 Chip C. GRM15581111022/01D 1 C272 CCB335 Chip C. GRM15581111022/01D 1 C272 CLB335 Chip C. GRM15581111022/01D 1 C272 CLB335 Chip C. GRM15581111022/01D 1 C272 CLB354 Chip C. GRM15581111022/01D 1 C273 CLB355 Chip C.												1	
117 CL355 Chip C. GRM 558111102XA01D 1 CC386 CL3033 Chip C. GRM 558111102XA01D 1 1181 CL3584 Chip C. GRM 558111102XA01D 1 CC382 CL3535 Chip C. GRM 558111102XA01D 1 CC372 CC3220 Chip backbarn TUCAM 102XM17FF 1181 CL3584 Chip C. GRM 558111102XA01D 1 CC372 CC3232 Chip C. GRM 558111102XA01D 1 CC372 CC3335 Chip C. GRM 558111102XA01D 1 CC372 CL3355 Chip C. GRM 55811102XA01D 1 CC382 CL3355 Chip C. GRM 55811102XA01D 1 CC382 CL3355 Chip C. GRM 55811102XA01D 1					-							i	1
Diffs Clussed Chup C. GRMISSICHISSIC/1990/2015 Clusses Clusses<					1							1	1
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Dife US835 Chip C. GRNNISSEITHICXXADD 1 C272 CS0235 Chip C. GRNNISSEITHICXXADD Dife CL8407 Elektropic. TRMACKADD 1 C272 CL0335 Chip C. TRMACKADD 1 C272 CL0335 Chip C. GRNNISSEITHICXXADD 1 C272 CL0335 Chip C. GRNNISSEITHICXXADD 1 C272 CL0356 Chip C. GRNNISSEITHICXXADD 1 C272 CL0357 Chip C. GRNNISSEITHICXXADD 1 C273 CL0356 Chip C. GRNNISSEITHICXXADD 1 C278 CL0356 Chip C. GRNNISSEITHICXXADD 1 C278 CL0356 Chip C. GRNNISSEITHICXXADD 1 C288			Chip C.	GRM1552C1H390JZ01D	1					Chip C.	C1608JB1H103KT-NS	1	
Chip C. GRM16580.0106K:10D 1 C274 Cusass Chip C. GRM16580.1106K:10D 1 C167 CL355 Chip C. GRM15581.11102XA01D 1 C277 CE0385 ElectrolyteC. 18MC109WHC TeleSCAS C177 CL355 Chip C. GRM15581.11102XA01D 1 C277 CE0385 Chip C. GRM15581.11102XA01D 1 C278 CL3564 Chip C. GRM15582.11102XA01D 1 C278 CL3564 Chip C. GRM15582.11102XA01D 1 C278 CL3562 Chip C. GRM15582.11102XA01D 1 C278 CL3562 Chip C. GRM15682.11102XA01D 1 C278 CL3562 Chip C. GRM15682.11102XA01D 1 C288 CL3982 Chip C. GRM15681.11102XA01D 1 C288 CL3982 Chip C. GRM15681.11102XA01D 1 C288 CL3982 Chip C. GRM15681.11102XA01D 1 C288 CL3982 Chip C. GRM16682.11102XA01D 1 C288 CL3982 Chip C. GRM16682.11102XA01D 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1,</td><td></td></td<>												1,	
1:66 CE0420 Electrophyc. C. 19ME2232 1 C276 CE034 Electrophyc. C. 19ME3074074 1:67 CU3527 Chip. C. GRM1552(1122)(DD1 0 1 C277 CU3536 Chip. C. GRM1552(1122)(DD1 0 1 C277 CU3547 Chip. C. GRM1552(1122)(DD1 0 1 C278 CU3547 Chip. C. GRM1552(1127)(DD1 0 1 C282 CU3542 Chip. C. GRM1552(1127)(DD1 0 1 C283 CU3543 Chip. C. GRM1552(1127)(DD1 0 1 C283 CU3543 Chip. C. GRM1552(1127)(DD1 0 1 C284 CU3543 Chip. C. GRM1552(1147)(DD1 0 1 C284 CU3543 Chip. C. GRM1552(1147)(DA164) 1 C284 CU3543 Chip. C. GRM1553(1110)(CA160 D 1 C284 CU3535 Chip. C. GRM1553(1110)(CA160 D 1 C283												1	
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170 Cuisses Chip C. GRMISSE11223(AdDD 171 Cuisses Chip C. GRMISSE11422(AdDD 1717 Cuisses Chip C. GRMISSE11422(AdDD 1718 Cuisses Chip C. GRMISSE11422(AdDD 1718 Cuisses Chip C. GRMISSE11422(AdDD 1718 Cuisses Chip C. GRMISSE114122(AdDD 1718												i	
171 CU3516 Chip C. GRM1552C1187D20201D 1 C2281 CU3520 Chip C. GRM1552C11187D20201D 173 CU3527 Chip C. GRM1552C111221J001D 1 C2282 CU3520 Chip C. GRM1552C1117L01D01D 1 C2282 CU3535 Chip C. GRM1552C1117L01D01D 1 C2380 CU3535 Chip C. GRM1552C1117L01D01D 1 C2380 CU3535 Chip C. GRM1552C11101D01D 1 C2380 CU3535 Chip C. GRM1552C11101D01D 1 C2380 CU3535 Chip C. GRM1552C111101D01D 1 C2380												i	
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175 CU3835 Cmp C. GRM1585111102XA01D 1 C286 CU3825 Cmp C. GRM1585111102XA01D 177 CU3864 Cmp C. GRM1585111102XA01D 1 C286 CU3825 Cmp C. GRM1585111102XA01D 1 C286 CU3855 Cmp C. GRM158511102XA01D 1 C306 CU3851 GRM1585111102XA01D 1 C306 GU3855 Cmp C. GRM1585111102XA01D 1 C306 CU3854 Cmp C. GRM1585111102XA01D 1 C306 CU3854 Cmp C. GRM1585111102XA01D 1 C306 CU3854 Cmp C. GRM1585111102XA01D					1							1	
116 Classes Chip C. GRM1582C11470/201D 1 C286 CLasses Chip C. GRM1582114004X01D 1 C286 CLasses Chip C. GRM1582114004X01D 1 C286 CLasses Chip C. GRM1582114004X01D 1 C286 CLasses Chip C. GRM1582114102XX01D 1 C286 CLasses Chip C. GRM1582114102XX1NS 1 C286 CLasses Chip C. GRM158211102XXNS 1 C238 CLasses Chip C. GRM158211102XXND 1 C238 CLasses Chip C. GRM158211102XND 1 C238 CLasses Chip C. GRM158211102XND 1 C238			Chip C.	GRM1552C1E221JD01D	1					Chip C.		1	
178 Classes Chip C. GRM158B1141084XA01D 1 C227 CS0083 Chip C. GRM158B1141084XA01D 1 C228 CU3385 Chip C. GRM158B111102XA01D 1 C228 CU3385 Chip C. GRM158B111102XA01D 1 C228 CU3385 Chip C. GRM158B111102XA01D 1 C228 CU3385 Chip C. GRM158B11102XA01D 1 C238 CU3387 Chip C. GRM158B11102XA01D 1 C238 CU3387 Chip C. GRM158B11102XA01D 1 C238				1								1	
179 CU3554 Chip C. GRM155811+102KA01D 1 C288 CU3055 Chip C. GRM155811+102KA01D 1210 CU3335 Chip C. GRM155811+102KA01D 1 C280 CU3355 Chip C. GRM155811+102KA01D 1211 CU3347 Chip C. GRM155811+102KA01D 1 C286 CU3355 Chip C. GRM155811+102KA01D 1216 CU3356 Chip C. GRM155811+102KA01D 1 C205 CU3355 Chip C. GRM155811+102KA01D 1216 CU3356 Chip C. GRM155811+102KA01D 1 C300 CU3351 Chip C. GRM155811+102KA01D 1216 CU3355 Chip C. GRM155811+102KA01D 1 C302 CU3353 Chip C. GRM155811+102KA01D 1216 CU3357 Chip C. GRM155811+102KA01D 1 C302 CU3355 Chip C. GRM155811+102KA01D 1216 CU3357 Chip C. GRM155811+102KA01D 1 C302 CU3355 Chip C. GRM15581+1012KA01D 1216 <td></td> <td>1</td> <td>1</td>												1	1
Cheo Cuissos Chip C. GRM:55811+1102XA01D 1 C288 Cuissos Chip C. GRM:55811+1102XA01D 1181 CUISSO Chip C. GRM:55811+102XA01D 1 C244 CUISSOS Chip C. GRM:55811+102XA01D 1182 CUISSOS Chip C. CHR0BB11+102XT-NS 1 C246 CUISSOS Chip C. GRM:55811+102XA01D 1184 CUISSOS Chip C. CHR0BB11+102XT-NS 1 C246 CUISSOS Chip C. GRM:55811+1102XA01D 1184 CUISSOS Chip C. GRM:55811+1102XA01D 1 C301 CUISSOS Chip C. GRM:55811+1102XA01D 1186 CUISSOS Chip C. GRM:55811+1102XA01D 1 C303 CUISSOS Chip C. GRM:55811+1012XA01D 1181 CUISSOS Chip C. GRM:55811+102XA01D 1 C306 CUISSOS Chip C. GRM:5581+1102XA01D 1181 CUISSOS Chip C. GRM:5581+1102XA01D 1 C305 CUISSOS Chip C. GRM:5581+11012XA01D <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>													
111 Cub335 Chip C. GRM1558111102KA01D 1 C200 Cub335 Chip C. GRM155811102KA15 113 CU335 Chip C. C16088181102KT-NS 1 C246 CU3353 Chip C. GRM155811102KT-NS 114 CU3353 Chip C. GRM155211102KT-NS 1 C246 CU3353 Chip C. GRM155211102KT-NS 116 CU3353 Chip C. GRM155211102KT-NS 1 C267 CU3353 Chip C. GRM155211102KA01D 1 C301 CU3223 Chip C. GRM1552111102KA01D 1 C301 CU3235 Chip C. GRM1552111102KA01D 1 C303 CU3235 Chip C. GRM1552111102KA01D 1 C304 CU3235 Chip C. GRM155211102KA01D 1 C304 CU3235 Chip C. GRM155211102KA01D 1 C304 CU3235 Chip C. GRM155211102KA01D 1 C304 CU3355 Chip C. GRM155211102KA01D 1 C304 CU3355 Chip C. GRM155211102KA01D 1 C305 CU3					-								
112 Cuips C. GRM:158111C103KA01D 1 C244 Cuips C. Chab_BI11C102KT-NS 118 CUips C. ChabaBI11C0XT-NS 1 C266 CUISS1 Chip C. GRM:15811C22XKA01D 1186 CUISS2 Chip C. CHABBI11102XT-NS 1 C266 CUISS1 GRM:1582C11101.00201D 1186 CUISS2 CHIP C. GRM:1582C11101.00201D 1 C300 CUISS1 GRM:1582C11101.00201D 1186 CUISS2 CHIP C. GRM:1582C11101.00201D 1 C303 CUISS1 GRM:1582C11101.00201D 1186 CUISS2 Chip C. GRM:158111102XA01D 1 C306 CUISS4 Chip C. GRM:158111102XA01D 1 C307 CUISS4 Chip C. GRM:158111102XA01D 1 C308 CUISS4 Chip C. GRM:158111102XA01D 1 C308												1	1
193 Cuiya C. C1008JB11102KT-NS 1 C266 Cuiya S. Chip C. GRM:65011222KA01D 196 CS0323 Chip C. GRM:55011602X01D 1 C207 CUIYAS GRM:550111002X01D 197 CUIYAS Chip C. GRM:550111002X01D 1 C300 CUIYAS GRM:5520111002X01D 197 CUIYAS Chip C. GRM:55111102XA01D 1 C301 CUIYAS GRM:5520111002X01D 198 CUIYAS Chip C. GRM:55111102XA01D 1 C304 CUIYAS GRM:552111002XA01D 191 CUIYAS Chip C. GRM:55811102XA01D 1 C304 CUIYAS GRM:55811102XA01D 192 CUIYAS Chip C. GRM:55811102XA01D 1 C306 CUIYAS GRM:55811102XA01D 193 CUIYAS Chip C. GRM:55811102XA01D 1 C308 CUIYAS GRM:55811102XA01D 194 CUIYAS Chip C. GRM:55811102XA01D 1 C308 CUIYAS GRM:55911102XA01D 1												1	1
1144 Cla3035 Chip C. Chip unitalima (CMA) (VAR/MTRF 1 C266 Clu30503 Chip C. Chip C. CMM (SSC1H4R0C201D) CL CRM (SSC1H4R0C201D) 1 C207 CL/30535 Chip C. Chip C. CMM (SSC1H4R0C2A1D) CL CRM (SSC1H4R0C201D) 1 C201 CL/3253 Chip C. CMM (SSC1H4R0CA1D) CL CRM (SSC1H4R0C2A1D) 1 C201 CL/3253 Chip C. CMM (SSC1H4R0CA1D) CL CRM (SSC1H4R0CA1D) 1 C203 CL/3253 Chip C. CMM (SSC1H4R0CA1D) CL CAM (SSC1H4R0CA1D) 1 C203 CL/3254 Chip C. CMM (SSC1H4R0CA1D) CL CAM (SSC1H4R0CA1D) 1 C203 CL/3254 Chip C. CMM (SSC1H4R0CA1D) CL CAM (SSC1H4R0CA1D) 1 C203 CL/3254 Chip C. CMM (SSC1H4R0CA1D) 1 C203 CL/3254 Chip C. CMM (SSC1H4R0CA1D) 1 C203 CL/3354 Chip C. C												1	
1966 CU3506 Chip C. GRM:H582(THR02ADT) 1 C300 CU3233 Chip C. GRM:H582(THR01ADD) 1976 CU3535 Chip C. GRM:H582(THR01ADD) 1 C301 CU3232 Chip C. GRM:H582(THR01ADD) 1980 CU3547 Chip C. GRM:H582(THR01ADD) 1 C302 CU3232 Chip C. GRM:H582(THR01ADD) 1910 CU3547 Chip C. GRM:H5811A103XADD 1 C304 CU32347 Chip C. GRM:H5811A103XADD 1 C304 CU3247 Chip C. GRM:H5811A103XADD 1 C304 CU3247 Chip C. GRM:H5811A102XADD 1 C304 CU3247 Chip C. GRM:H5811A102XADD 1 C304 CU3254 Chip C. GRM:H582(THR02ADD 1 C316 CU3355 Chip C. GRM:H582(THR02ADD 1 C316 CU3355 Chip C. GRM:H582(THR02ADD 1 C336 CU3254 Chip C. GRM:H582(THR02ADD 1 C336 CU3254 Chip C. GRM:H582(THR02ADD 1 C3357		CU3035			1							1	
1187 CU3535 Chip C. GRM:55811H102(AADD 1 C302 CU3232 Chip C. GRM:552C1H101.D01D 1189 CU3535 Chip C. GRM:552C1H101.D01D 1 C302 CU3252 Chip C. GRM:552C1H101.D01D 1190 CU3547 Chip C. GRM:55811A033KA01D 1 C306 CU3547 Chip C. GRM:55811A033KA01D 1 C306 CU3547 Chip C. GRM:55811C103KA01D 1 C306 CU3547 Chip C. GRM:55811C103KA01D 1 C306 CU3551 Chip C. GRM:558111C123KA01D 1 C306 CU3551 Chip C. GRM:558111K102/AA7D 1 C306 CU3551 Chip C. GRM:558111K102/AA7D 1 C310 CU3552 Chip C. GRM:558111K102/AA7D 1 C311 CU3551 Chip C. GRM:558111K102/AA7D 1 C312 CU3052 Chip C. GRM:558111K102/AA7D 1 C312 CU3052 Chip C. GRM:558111K102/AA7D 1 C312 CU3052 Chip C. GRM:558111K102/AA7D 1 C312 CU3051 Chip C. GRM:558111K102/AA7D 1 C312 CU3051 <td></td> <td></td> <td>Chip tantatum</td> <td></td> <td>1</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td>GRM155B11H102KA01D</td> <td>1</td> <td></td>			Chip tantatum		1	4					GRM155B11H102KA01D	1	
188 CUB335 Chip C. GRM155211H102X01D 1 C322 CU3223 Chip C. GRM155211H102X01D 190 CU3547 Chip C. GRM155511C103XA01D 1 C336 CU3237 Chip C. GRM1555111C103XA01D 191 CU3532 Chip C. GRM155511A33XA01D 1 C336 CU3547 Chip C. GRM155511A104KA01D 1918 CU4333 Chip C. GRM155511A104KA01D C336 CU3547 Chip C. GRM155511A104KA01D 1918 CU4330 Chip C. GRM155511H102XA01D C336 CH3547 Chip C. GRM155511H102XA01D 1918 CU3303 Chip C. GRM155511H102XA01D C336 Chip C. GRM15521H102XA01D C336 Chip C. GRM15521H22XA02Y21L C3353 Chip C. GRM15521H302XA01D C337 CU3353 Chip C. GRM15581H402XA01D C331 CU3353 Chip C. GRM15581H402XA01D C331 CU3353 Chip C. GRM15581H402XA01D C331 CU3353 Chip C. GRM15581H32XA002D C3332 CU3												1	
1989 CU3015 Chip C. C1000CH1H220,T-NS 1 CC30 CU3825 Chip C. GRM1558114033KA01D 191 CU3552 Chip C. GRM1558114033KA01D 1 CC304 CU3854 Chip C. GRM155811403KA01D 192 CU3547 Chip C. GRM155811403KA01D 1 CC304 CU3554 Chip C. GRM155811404KA01D 193 CU4033 Chip C. GRM155811402KA01D 1 CC305 CU3554 Chip C. GRM155811402KA01D 196 CU3355 Chip C. GRM155811402KA01D 1 CC305 CU3523 Chip C. GRM155811402KA01D 196 CU3305 Chip C. GRM155811402KA01D 1 CC316 CU3523 Chip C. GRM155811402KA01D 200 CU3035 Chip C. GRM155811402KA01D 1 CC322 CU3056 Chip C. GRM155811402KA01D 200 CU3035 Chip C. GRM31M22H2R0CY21L 1 CC323 CU3356 Chip C. GRM155811402KA01D 1 C232 <td< td=""><td></td><td></td><td></td><td></td><td>-</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td></td<>					-	1						1	
100 CU3847 Chip C. GRM1558114003XA01D 1 CC386 CU3847 Chip C. GRM1558114004X01D 1192 CU33547 Chip C. GRM1558114004X01D CC386 CU3847 Chip C. GRM1558114004X01D 1193 CU0330 Chip C. GRM1558114004X01D CC397 CU3947 Chip C. GRM1558114004X01D 1194 CU3034 Chip C. GRM15581141002X01D CC396 CC3947 Chip C. GRM1558114022X401D 1196 CU3354 Chip C. GRM1558114102X401D CC396 CU3551 Chip C. GRM15582114102X401D 1199 CE3339 Electrolytic C. IGM158214780CY21L CC316 CU3555 Chip C. GRM1581141102X401D 2200 CU4001 CHip C. GRM15811478780CY21L CC322 CU3035 Chip C. GRM158114102X401D 2201 CU4003 Chip C. GRM15811478780CY21L CC322 CU3035 Chip C. GRM15811402X470CY21L C232 CU3035 Chip C. GRM15811402X470CY21L C2322 CU40355												1	
191 CU3552 Chip C. GRM155B11C103KA01D 1 CC306 CU3554 Chip C. GRM155B11C103KA01D 193 CU4033 Chip C. GRM155B11C103KA01D 1 CC306 CU3554 Chip C. GRM155B11C103KA01D 194 CU3035 Chip C. GRM155B11H02KA01D 1 CC306 CU3554 Chip C. GRM155B11H02KA01D 196 CU3305 Chip C. GRM155B11H02KA01D 1 CC306 CU3523 Chip C. GRM155B11H02KA01D 199 CE0339 Eloctrolytic C. 10600KTNS 1 CC310 CU3523 Chip C. GRM155B11H02KA01D 201 CU4003 Chip C. GRM31M4C2H2R0CY21L 1 CC32 CU3010 TMM55B11H02KA01D 202 CU4004 Chip C. GRM31M4C2H2R0CY21L 1 CC32 CU3030 Chip C. GRM31M2C2HR0CY21L 1 CC32 CU3030 TMM55B11H02KA01D CC32 CU3030 Chip C. GRM15B11C103KA01D CC32 CU3030 Chip C. GRM15B11C03KA01D CC32												1	
192 CU3547 Chip C. GRM16581141043A01D 1 C306 CU3547 Chip C. GRM16581141044A01D 193 CU4003 Chip C. C1060CH14030C7NS 1 C307 CU3547 Chip C. GRM165811102XA01D 195 CU3536 Chip C. GRM1658111102XA01D 1 C308 CU3561 Chip C. GRM165811102XA01D 199 CU3335 Chip C. GRM16582111102XA01D 1 C310 CU3535 Chip C. GRM1658211160XA01D 200 CU3035 Chip C. GRM164824700V11 1 C312 CU3035 Chip C. GRM1658211102XA01D 201 CU4003 Chip C. GRM31M3C2HR0CY21L 1 C322 CU3035 Chip C. GRM1658211102XA01D 202 CU4003 Chip C. GRM31M3C2HR0CY21L 1 C322 CU3035 Chip C. CHMC40A17KF 203 CU4003 Chip C. GRM31M3C2HR0CY21L 1 C332 CU3354 Chip C. CHMC40A17KA01D 203 CU4003												1	
193 CU4033 Chip C. GRM156811C1034A01D 1 C307 CU355 Chip C. GRM156811C1034A01D 196 CU3555 Chip C. GRM155811H102KA01D 1 C309 CU3555 Chip C. GRM155811H02XA01D 1 C309 CU3555 Chip C. GRM155821H102XA01D 1 C310 CU3553 Chip C. GRM155821H102XA01D 1 C311 CU3535 Chip C. GRM155821H102XA01D 1 C312 CU3035 Chip C. GRM155811H102XA01D 1 C312 CU3035 Chip C. GRM155811H102XA01D 1 C312 CU3035 Chip C. GRM155811H102XA01D 1 C322 CU3016 Chip C. GRM155811H102XA01D 1 C322 CU3035 Chip C. GRM155811H102XA01D 1 C322 CU3035 Chip C. GRM155811H102XA01D 1 C332 CU3035 Chip C. GRM155811H102XA01D 1 C333 CU3035 Chip C. GRM1558111D12XA01D 1 C4335 CU3035 Chip C. GRM15581111012XA01D 1 C4435 <td></td> <td>1</td> <td></td>												1	
194 CU3004 Chip C. C1080CH14030CT-NS 1 C0308 CE042 CEleatroptic C. Infector/In					1							1	
1166 CU3504 Chip C. GRMI553211H30L021D 1 C310 CU3535 Chip C. GRMI55211H101L001D 2000 CU3035 Chip C. C1600JB1H102KT-NS 1 C311 CU3335 Chip C. GRMI55211H50C201D 2010 CU4001 Chip C. GRM31M2C2H700VY1L 1 C311 CU3335 Chip C. GRMI55211H50C201D 2020 CU4001 Chip C. GRM31M2C2H700VY1L 1 C321 CU3035 Chip C. GRM31M2C2H700VY1L 1 C322 CU3035 Chip C. LMX212B1105KA01D 2020 CU4001 Chip C. GRM31M2C2H700VY1L 1 C332 CU3035 Chip C. LMX212B105KA01D 2020 CU3001 Chip C. C1608CH1H04C7+NS 1 C333 CU3035 Chip C. GRM155B11102K7+NS 2020 CU3035 Chip C. C1608CH1H04C7+NS 1 C4335 CU3055 Chip C. GRM155B11102K7+NS 2020 CU3035 Chip C. C1608CH1H04C7+NS 1 C4401 CU3					1							1	
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2200 CU3035 Chip C. C1600.B1H102KT-NS 1 C312 CU3036 Chip C. GRM1582C116R0C201D 2201 CLM004 Chip C. GRM31M2C2H100LV01L 1 C321 CL3036 Chip C. GRM31M2C2H200CY2LL 1 C322 CU3035 Chip C. C1608.B1H102KT-NS 1 C322 CU3035 Chip C. C1608.B1H102KT-NS 1 C332 CU3035 Chip C. GRM31M3C2H2R0CY2LL 1 C328 CU3035 Chip C. GRM31M3C2H2R0CY2LL 1 C328 CU3035 Chip C. GRM31M3C2H2R0CY2LL 1 C328 CU3035 Chip C. GRM31M3CH3CT-NS 1 C333 CU3354 Chip C. GRM156811C103KA01D 2206 CU3035 Chip C. C1608.B1H102KT-NS 1 C401 CU3354 Chip C. GRM155811403KA1D 2209 CU3035 Chip C. C1608.B1H102KT-NS 1 C403 CU3354 Chip C. GRM155811403KA1D 2210 CU3035 Chip C. C1608.B1H102KT-NS 1 C403 <t< td=""><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td></t<>												1	
2201 CL44003 Chip C. GRM31M4C2H200V01 1 C316 CL3353 Chip C. GRM31M3C2H302V010 1 2202 CL4404 Chip C. GRM31M3C2H302V011 1 C322 CL3335 Chip C. CH608JBH1102XT-NS 2206 CL4003 Chip C. GRM31M3C2H302V21L 1 C322 CL3335 Chip C. CH608JBH1102XT-NS 2206 CL3036 Chip C. CH608JBH1102XT-NS 1 C331 CL3547 Chip C. GRM155BH11C102XA01D 2206 CL3036 Chip C. CH608JH1102XT-NS 1 C335 CL3547 Chip C. GRM155BH1402XA01D 2207 CL30301 Chip C. CH608JH1102XT-NS 1 C335 Chip C. GRM155BH1402XA01D 2208 CL30305 Chip C. CH608JH1102XT-NS 1 C436 CL3550 Chip C. GRM155BH143X3XA01D 2210 CL3035 Chip C. GRM155BH143XXAN5 1 C404 CL3554 Chip C. GRM155BH143XXA01D 2211 CL303												1	
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238 CU3535 Chip C. GRM155B11H102KA01D 1 C428 CU0110 Chip C. C2012JB1A475KT-NS 237 CU3535 Chip C. GRM155B11H102KA01D 1 CN101 UE0369 Connector AXN49301616 238 CU3111 Chip C. C1608JB1E104KT-NS 1 CN101 UE0369 Connector AXN49301616 239 CU3535 Chip C. GRM155B11H102KA01D 1 CN102 UE0293 Connector 17PS-JE 241 CU3522 Chip C. GRM155B11H102XA01D 1 CN103 UE0293 Connector 17PS-JE 242 CU3551 Chip C. GRM155B11C223KA01D 1 CN106 UE0043 Connector PI2A02M 243 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 CN109 UE0041 Connector TMP.01XV6 244 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 D101 XD0141 Chip Diode 1SV37(TE85L,F) 245 CS0405Z <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>1</td></t<>												1	1
237 CU3535 Chip C. GRM155B11H102KA01D 1 CN101 UE0369 Connector AXN49301618 238 CU3111 Chip C. C1608JB1E104KT-NS 1 CN101 UE0293 Connector 17PS-JE 239 CU3525 Chip C. GRM155B11H102KA01D 1 CN103 UE0293 Connector 17PS-JE 241 CU3522 Chip C. GRM155D2(1H820JD01D 1 CN104 UE0293 Connector 17PS-JE 242 CU3521 Chip C. GRM155D2(1H820JD01D 1 CN104 UE0043 Connector PI22A02M 242 CU3539 Electrolytic C. 16ME10SWB+TS-ALC 1 CN109 UE0041 Connector TMPJ01XV6 244 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 D101 XD0141 Chip Diode 1S3257(TE85L,F) 244 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 D101 XD0141 Chip Diode 1S3256 TE17 245 CS0405Z						1						1	
238 CU3111 Chip C. C1608JB1E104KT-NS 1 CN102 UE0293 Connector 17PS-JE 239 CU3535 Chip C. GRM155B11H102KA01D 1 CN103 UE0293 Connector 17PS-JE 241 CU3525 Chip C. GRM1552C1H620JD01D 1 CN104 UA0037AY Wire R-B2.0X0.2M PLUG 15A 242 CU3551 Chip C. GRM1552C1H620JD01D 1 CN104 UA0037AY Wire R-B2.0X0.2M PLUG 15A 243 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 CN109 UE0041 Connector TMPJ01XV6 244 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 D101 XD0141 Chip Diode IS355 TE17 245 CS0405Z Chip tantalum TAJA475M010Y 1 D102 XD0254 Chip Diode IS355 TE17 246 CU3543 Chip C. GRM155B11E472KA01D 1 D106 XD0402 Chip Diode VDZ12R 5.1B												1	1
239 CU3535 Chip C. GRM155B11H102KA01D 1 CN103 UE0293 Connector 17PS-JE 241 CU3522 Chip C. GRM1552C1H620JD01D 1 CN104 UA0037AY Wire R-B2.0X0.2M PLUG 15A 242 CU3551 Chip C. GRM155B11C223KA01D 1 CN106 UE0043 Connector FI22A02M 243 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 CN109 UE0041 Connector TMPJ01XV6 244 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 D101 XD0141 Chip Diode 1SV237(TE85L,F) 245 CS04052 Chip tantalum TAJA475M010Y 1 D102 XD0254 Chip Diode 1SS355 TE17 246 CU3543 Chip C. GRM155B11E472KA01D 1 D106 XD0402 Chip Diode VDZT2R 5.1B												1	1
241 CU3522 Chip C. GRM1552C1H820JD01D 1 CN104 UA0037AY Wire R-B2.0X0.2M PLUG 15A 242 CU3551 Chip C. GRM155B11C223KA01D 1 CN106 UE0043 Connector PI22A02M 243 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 CN109 UE0041 Connector TMPJ01XV6 244 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 D101 XD0141 Chip biode 1SV237(TE85L,F) 245 CS0405Z Chip tantalum TAJA475M010Y 1 D102 XD0254 Chip Diode 1SS355 TE17 246 CU3543 Chip C. GRM155B11E472KA01D 1 D106 XD0402 Chip Diode VDZ12R 5.1B												1	1
242 CU3551 Chip C. GRM155B11C223KA01D 1 CN106 UE0043 Connector PI22A02M 243 CE0339 Electrolytic C. 16ME105WB+TS-ALC 1 CN106 UE0043 Connector TMPJ01XV6 244 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 D101 XD0141 Chip biode 1SV237(TE85L,F) 245 CS0405Z Chip tantalum TAJA475M010Y 1 D102 XD0402 Chip Diode 1SS355 TE17 246 CU3543 Chip C. GRM155B11E472KA01D 1 D106 XD0402 Chip Diode VDZT2R 5.1B												1	1
243 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 CN109 UE0041 Connector TMPJ01XV6 244 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 D101 XD0141 Chip Diode 1SV237(TE85L,F) 245 CS0405Z Chip tantalum TAJA475M010Y 1 D102 XD0254 Chip Diode 1SS355 TE17 246 CU3543 Chip C. GRM155B11E472KA01D 1 D106 XD0402 Chip Diode VDZ12R 5.1B												i	1
244 CE0339 Electrolytic C. 16ME10SWB+TS-ALC 1 D101 XD0141 Chip Diode 1SV237(TE85L,F) 245 CS0405Z Chip tantalum TAJA475M010Y 1 D102 XD0254 Chip Diode 1SS355 TE17 246 CU3543 Chip C. GRM155B11E472KA01D 1 D106 XD0402 Chip Diode VZZ12R 5.1B												1	1
245 CS0405Z Chip tantalum TAJA475M010Y 1 D102 XD0254 Chip Diode 1SS355 TE17 246 CU3543 Chip C. GRM155B11E472KA01D 1 D108 XD0402 Chip Diode VZZT2R 5.1B												1	
	245	CS0405Z	Chip tantalum		1]	D102	XD0254			1	
												1	
248 CU3547 Chip C. GRM155B11C103KA01D 1 D107 XD0141 Chip Diode 1SV237(TE85L,F) 249 CU3538 Chip C. GRM155B11H182KA01D 1 D108 XD0254 Chip Diode 1SS355 TE17			Chip C.	GRM155B11C103KA01D	1						1SV237(TE85L,F)	1	1

Ref No.	Part No.	Description	Parts Name	Qty.	Ver.	4 L	Ref No.	Part No.	Description	Parts Name	Qty.	
D109	XD0301	Chip Diode	1\$V268-TD-E	1			Q147	XU0209	Chip	EMD6T2R	1	
110	XD0013	Diode	L407CDB	1			Q148	XU0195	Chip	RN1104(TE85L,F)		1
	XD0375	Chip Diode	MA4Z71300L	1			Q149	XU0210	Chip	RN1107MFV(TPL3)	1	
112	XD0375	Chip Diode	MA4Z71300L	1			Q401	XU0210	Chip	RN1107MFV(TPL3)	1	
113	XD0323	Chip Diode	MA2S11100L	1	1		Q402	XU0211	Chip	RN2107MFV(TPL3)	1 1	E
114	XD0141	Chip Diode	1\$V237(TE85L,F)	1		[F	R105	RK3530	Chip R.	ERJ2GEJ221X	1	
115	XD0320	Chip Diode	DAN235E-TL	1		[F	R106	RK3554	Chip R.	ERJ2GEJ223X	1 1	ł
	XD0320	Chip Diode	DAN235E-TL	1	1		R107	RK3554	Chip R.	ERJ2GEJ223X	1	
0118	XD0130	Chip Diode	DA204U T106	1	1		R109	RK3526	Chip R.	ERJ2GEJ101X	1	
	XD0323	Chip Diode	MA2S11100L	1			R110	RK3526	Chip R.	ERJ2GEJ101X	1 . 1 .	
	XD0374	Chip Diode	1SV278(TPH2,F)	í			R112	RK3522	Chip R.	ERJ2GEJ470X	1 1 1	
	XD0414	Diode	S3V60-5000	i ∕i			R113	RK3544	Chip R.	ERJ2GEJ332X	1	
				1 i · ·								
	XD0364	Chip Diode	1SV279(TPH3)				R114	RK3540	Chip R.	ERJ2GEJ152X		
	XD0364	Chip Diode	1SV279(TPH3)				R116	RK3530	Chip R.	ERJ2GEJ221X		
	XD0377	Chip Diode	MAZS0270HL	1			R117	RK3570	Chip R.	ERJ2GEJ474X		
0130	XD0323	Chip Diode	MA2\$11100L	1		l if	R118	RK3526	Chip R.	ERJ2GEJ101X	1	1
0136	XD0395	Chip Diode	UDZS TE-17 5.6B	· 1		l F	R125	RK3535	Chip R.	ERJ2GEJ561X	1	
0402	XD0323	Chip Diode	MA2S11100L	1		l fr	R126	RK3552	Chip R.	ERJ2GEJ153X	1 .	
	XC0047	Ceramic Filter	ALFYM455E=K	1	1		R128	RK3562	Chip R.	ERJ2GEJ104X	1	
	XC0036	Ceramic Filter	ALFYM455G=K	1			R129	RK3534	Chip R.	ERJ2GEJ471X	1	ł
												1
	XA0947	IC	NJM78M05DL1ATE1#ZZ				R130	RK3562	Chip R.	ERJ2GEJ104X		
	XA1106	IC	LM2902PWR	1 '			R131	RK3562	Chip R.	ERJ2GEJ104X		1
C108	XA0404	IC	TA31136FNG(EL)	1		I IF	R132	RK3550	Chip R.	ERJ2GEJ103X	1 .	
C109	XA0115	IC ·	TC4S66F(TE85R,F)	1 '	· · ·	l i jf	R133	RK3526	Chip R.	ERJ2GEJ101X	1	1
C110	XA1142	IC	S-AU82L(F)	1		l IF	R134	RK3553	Chip R.	ERJ2GEJ183X	1	- 1
C111	XA0115	IC	TC4\$66F(TE85R,F)	1			R136	RK3534	Chip R.	ERJ2GEJ471X	1	1
	XA0119	ic	ANB010M-E1	1	· ·		R138	RK3562	Chip R.	ERJ2GEJ104X	1	
	XA0115	IC	TC4S66F(TE85R,F)				R139	RK3562	Chip R.	ERJ2GEJ104X	1 .	. [
				1 1							1 i	I
	XA1106	IC	LM2902PWR		1		R140	RK3554	Chip R.	ERJ2GEJ223X		1
C115	XA0102	IC	NJM7808FA-#ZZZB				R143	RK3522	Chip R.	ERJ2GEJ470X		
	XA1107	IC	MB15E07SRPFTGBNDE	- 1			R144	RK3542	Chip R.	ERJ2GEJ222X	1	
C117	XA0410	IC	LA4425A-E	1		F	R145	RK3552	Chip R.	ERJ2GEJ153X	1	
C120	XA1103	IC .	LM2904PWR	1		I IF	3146	RK3552	Chip R.	ERJ2GEJ153X	1	
	UJ0024Z	Jack .	LGY6501-0900FC	1 '		l IF	R147	RK3550	Chip R.	ERJ2GEJ103X	1	
	QC0043		NLV32T-2R2J-PFS	1			R148	RK3538	Chip R.	ERJ2GEJ102X	1 .	1
	QA0165	Coil	#252MNPR-3213A	1			3151	RK3550	Chip R.	ERJ2GEJ103X	1	- 1
	QA0165	Coil	#252MNPR-3213A				R152	RK3538	Chip R.	ERJ2GEJ102X	1 1	
											1	
	QC0057		NLV32T-015J-PFS				R153	RK3562	Chip R.	ERJ2GEJ104X		
.105	QC0057	Chip Inductor	NLV32T-015J-PFS	1 1 1			R154	RK3542	Chip R.	ERJ2GEJ222X		1
.106	QC0055		NLV32T-010J-PFS				R155	RK3551	Chip R.	ERJ2GEJ123X	1	
.107	QC0057	Chip Inductor	NLV32T-015J-PFS	1	·	_ F	R156	RK3558	Chip R.	ERJ2GEJ473X	1	1
.108	QC0124	Chip Inductor	NLV32T-R15J-PFS	1		. F	3158	RK3526	Chip R.	ERJ2GEJ101X	1	
109	QC0061	Chip Inductor	NLV32T-033J-PFS	1		I IF	R162	RK3526	Chip R.	ERJ2GEJ101X	1 1	1
	QKA25E	Coil	MR3.0 2.5T 0.8	1 1			R163	RK3526	Chip R.	ERJ2GEJ101X	1.	
	QKA15D	Coil	MR3.0 1,5T 0.6	1			R164	RK3025	Chip R.	MCR03EZPJ820	1 1	-1
	QKA15E	Coil	MR3.0 1.5T 0.8	1			165	RK3574	Chip R.	ERJ2GEJ105X	1	
								RK3562				
.114	QKA15E	Coil	MR3.0 1.5T 0.8				R166		Chip R.	ERJ2GEJ104X		
.115	QKA15E	Coil	MR3.0 1.5T 0.8		· ·		R167	RK3564	Chip R.	ERJ2GEJ154X		
.117	QKA25D	Coil	MR3.0 2.5T 0.6	1			R168	RK3554	Chip R.	ERJ2GEJ223X		
.118	QKA95D	Coil	MR3.0 9.5T 0.6	1				RK3556	Chip R.	ERJ2GEJ333X	1 1	. [
.119	QC0538	Chip Inductor	LQW2BHNR10J03L	1.		F	R173	RK3526	Chip R.	ERJ2GEJ101X	1	
.120	QC0059	Chip Inductor	NLV32T-022J-PFS	1		F	R176	RK3550	Chip R.	ERJ2GEJ103X -	1	
	QC0740	Chip Inductor	KQ0805TTER82J	1			R177	RK3544	Chip R.	ERJ2GEJ332X	1	
	QC0740		KQ0805TTER82J	1			R178	RK3542	Chip R.	ERJ2GEJ222X	Í 1	
123	QA0163	Coil	SMD-1380	1			R180	RK3538	Chip R.	ERJ2GEJ102X	i .	1
	QC0627	Chip Inductor	LL1608-FSLR10J				R181	RK3562	Chip R.	ERJ2GEJ104X		
	QC0739	Chip Inductor	KQ0805TTER33J				R182	RK3542	Chip R.	ERJ2GEJ222X		
	XU0209	Chip	EMD6T2R	1			R183	RK3568	Chip R.	ERJ2GEJ334X	1.	
		Chip	RN1107MFV(TPL3)	1	I		R184	RK3526	Chip R.	ERJ2GEJ101X	1	
105	XT0125	Chip	2SC4245-Y(TE85L)	_1		I F	R185	RK3570	Chip R.	ERJ2GEJ474X	1,	
	XE0053	Chip FET	3\$K293(TE85L,F)	1				RK3562	Chip R.	ERJ2GEJ104X	1	
	XE0053	Chip FET	3SK293(TE85L,F)	· 1	1 · 1			RK3558	Chip R.	ERJ2GEJ473X	1	
	XU0210	Chip	RN1107MFV(TPL3)	1 .				RK3526	Chip R.	ERJ2GEJ101X	1	
	XT0208	Chip	2\$D2620J0L	1				RK3538	Chip R.	ERJ2GEJ102X	1 1	.
	XT0208	Chip	2SD2620J0L					RK3538	Chip R.	ERJ2GEJ102X		
										ERJ2GEJ102X	1	
	XT0141	Chip	2SC4226-T1(R24)					RK3538	Chip R.			
	XT0141	Chip	2SC4226-T1(R24)				R193	RK3538	Chip R.	ERJ2GEJ102X	1	1
	XU0209	Chip	EMD6T2R	1			R195	RK3570	Chip R.	ERJ2GEJ474X		1
	XU0210	Chip	RN1107MFV(TPL3)	1			7196	RK3538	Chip R.	ERJ2GEJ102X	1.	
115	XT0194	Chip	2SC5551-TD-E	.1	1	[F	R197	RK3550	Chip R.	ERJ2GEJ103X	1	
	XT0110	Chip	2SA1036K T146Q	1			R198	RK3542	Chip R.	ERJ2GEJ222X	1	
	XT0095	Chip	2SC4081 T106R	1 .			R199	RK3542	Chip R.	ERJ2GEJ222X	1	1
	XU0210	Chip	RN1107MFV(TPL3)	1				RK3570	Chip R.	ERJ2GEJ474X	1	1
	XU0178	Chip	XP0121500L	1				RK3542	Chip R.	ERJ2GEJ222X	1	
	XT0190	Chip	2SB1386 T100Q					RK0028	Chip R.	ERJ6GEYJ471V		
	XT0170	Chip	2SB0766ARL					RK3556	Chip R.	ERJ2GEJ333X		
	XU0209		EMD6T2R	1				RK3562	Chip R.	ERJ2GEJ104X	1	1
	XU0210	Chip	RN1107MFV(TPL3)	1		F	3205	RK0069	Chip R.	ERJ6GEYJ104V	1	
		Chip	2SC4081 T106R	1				RK0005	Chip R.	ERJ6GEYJ220V	1	
	XU0210	Chip	RN1107MFV(TPL3)	1			2207	RK3552	Chip R.	ERJ2GEJ153X	1	
	XU0195	Chip	RN1104(TE85L,F)	1	1		1208	RK3536	Chip R.	ERJ2GEJ681X	1	
	XE0066	Chip FET	2\$K2539-TB-E					RK3561	Chip R.	ERJ2GEJ823X	4	
132	XU0210	Chip	RN1107MFV(TPL3)	1				RK3542	Chip R.	ERJ2GEJ222X	1	
	XU0210	Chip	RN1107MFV(TPL3)	1.		F	3211	RK4018	Chip R.	ERJ12YJ220U	1	
	XT0125	Chip	2SC4245-Y(TE85L)	1				RK4026	Chip R.	ERJ12YJ101U	1 .	
133		Chip	2SC4215-Y(TE85L,F)	1	1			RK3549	Chip R.	ERJ2GEJ822X	1 1	
133 134	XT0124				1							
2133 2134 2135	XT0124		QN1107MEV//TOL21	· 1			2214	DR3550				
2133 2134 2135 2137	XU0210	Chip	RN1107MFV(TPL3)	1				RK3550	Chip R.	ERJ2GEJ103X		ļ
1133 1134 1135 1137 1138	XU0210 XT0141	Chip Chip	2SC4226-T1(R24)	1		F	2215	RK3536	Chip R.	ERJ2GEJ681X	1.	
133 134 135 137 138 141	XU0210	Chip		1 1 1		F	R215 R216					

		Description	Parts Name	Qty.	Ver.	Ref No.	Part No.	Description	Parts Name
	RK3538	Chip R.	ERJ2GEJ102X			R345	RK3501	Chip R.	ERJ2GE0R00X
	RK4034	Chip R.	ERJ12YJ471U	1		R346	RK3561	Chip R.	ERJ2GEJ823X
	RK3550	Chip R.	ERJ2GEJ103X	1		R347	RK3551	Chip R.	ERJ2GEJ123X
	526	Chip R.	ERJ2GEJ101X	1		R348	RK3534	Chip R.	ERJ2GEJ471X
RK3530		Chip R.	ERJ2GEJ221X	1		R349	RK3562	Chip R.	ERJ2GEJ104X
RK3550		Chip R.	ERJ2GEJ103X	1		R401	RK3553	Chip R.	ERJ2GEJ183X
RK3038		Chip R.	MCR03EZPJ102	1		R402	RK3551	Chip R.	ERJ2GEJ123X
RK3501		Chip R.	ERJ2GEOR00X	l i		R403	RK3542	Chip R.	ERJ2GEJ222X
RK3538		Chip R.	ERJ2GEJ102X	-		R404	RK3562	Chip R.	ERJ2GEJ104X
RK3550		Chip R.	ERJ2GEJ103X	1		R405	RK3563	Chip R.	ERJ2GEJ124X
RK3546		Chip R.	ERJ2GEJ472X	1		R406	RK3559	Chip R.	ERJ2GEJ563X
RK3050		Chip R.	MCR03EZPJ103	1		R407	RK3562	Chip R.	ERJ2GEJ104X
RK3522		Chip R.	ERJ2GEJ470X	1 1		R408	RK3558	Chip R.	ERJ2GEJ473X
				1 1	1 1				ERJ2GEJ683X
RK3542		Chip R.	ERJ2GEJ222X	· ·		R409	RK3560	Chip R.	
RK355		Chip R.	ERJ2GEJ333X	1		R410	RK3557	Chip R.	ERJ2GEJ393X
RK3	556	Chip R.	ERJ2GEJ333X	1	1 1	R411	RK3562	Chip R.	ERJ2GEJ104X
RK:	3551	Chip R.	ERJ2GEJ123X	1	1 1	R412	RK3550	Chip R.	ERJ2GEJ103X
	3526	Chip R.	ERJ2GEJ101X	1	1 1	R413	RK3550	Chip R.	ERJ2GEJ103X
RK356			ERJ2GEJ104X	1	1 1	R414	RK3566	Chip R.	ERJ2GEJ224X
		Chip R.							
RK35		Chip R.	ERJ2GEJ103X	1		R415	RK3558	Chip R.	ERJ2GEJ473X
RK3		Chip R.	ERJ2GEJ103X	1		R416	RK3550	Chip R.	ERJ2GEJ103X
RK	3522	Chip R.	ERJ2GEJ470X	1		R417	RK3568	Chip R.	ERJ2GEJ334X
	3554	Chip R.	ERJ2GEJ223X	1		R418	RK3560	Chip R.	ERJ2GEJ683X
	3568	Chip R.	ERJ2GEJ334X			R419	RK3550	Chip R.	ERJ2GEJ103X
	K3538	Chip R.	ERJ2GEJ102X	1		R420	RK3574	Chip R.	ERJ2GEJ105X
	RK3546	Chip R.	ERJ2GEJ472X	1		R421	RK3566	Chip R.	ERJ2GEJ224X
F	₹K3538	Chip R.	ERJ2GEJ102X	1		R422	RK3562	Chip R.	ERJ2GEJ104X
	RK3064	Chip R.	MCR03EZPJ154	1		R429	RK3501	Chip R.	ERJ2GE0R00X
	RK3550	Chip R.	ERJ2GEJ103X	1		R430	RK3538	Chip R.	ERJ2GEJ102X
	RK3557	Chip R.	ERJ2GEJ393X			R431	RK3558	Chip R.	ERJ2GEJ473X
	RK3557	Chip R.	ERJ2GEJ393X	1		R432	RK3550	Chip R.	ERJ2GEJ103X
l	RK3546	Chip R.	ERJ2GEJ472X	1		SH101	T\$0172	Case	VCO CASE DR620
	RK3526	Chip R.	ERJ2GEJ101X	1			CT0046	Trimmer C.	TC03C100A-TP02
	RK3547	Chip R.	ERJ2GEJ562X	i		TC103	CT0046	Trimmer C.	TC03C100A-TP02
	RK3557	Chip R.	ERJ2GEJ393X			TH101	XS0031	Chip	NTCG164BH682JT-
	RK3550	Chip R.	ERJ2GEJ103X	1			X\$0050	Chip	NTCG164QH105JT-
	RK3550	Chip R.	ERJ2GEJ103X	1		VR101	RH0233	Trimmer R.	RH02B1C15X
	RK3554	Chip R.	ERJ2GEJ223X	1		VR102	RH0231	Trimmer R.	RH02B1CS4X
	RK3568	Chip R.	ERJ2GEJ334X			VR103	RH0229	Trimmer R.	RH02B1CJ4X
	RK3538	Chip R.	ERJ2GEJ102X			VR104	RH0233	Trimmer R.	RH02B1C15X
	RK3550	Chip R.	ERJ2GEJ103X	1		VR106	RH0231	Trimmer R.	RH02B1CS4X
	RK3522	Chip R.	ERJ2GEJ470X	i - 1		VR107	RH0225	Trimmer R.	RH02B1CS3X
þ	RK3550	Chip R.	ERJ2GEJ103X	1		VR108	RH0233	Trimmer R.	RH02B1C15X
	RK3550	Chip R.	ERJ2GEJ103X	1		VR109	RH0229	Trimmer R.	RH02B1CJ4X
	RK3560	Chip R.	ERJ2GEJ683X				RH0233	Trimmer R.	RH02B1C15X
				· ·	1				
	4034	Chip R.	ERJ12YJ471U			X101	XK0002	Discriminator	CDBLB455KCAY07-
RK'	3550	Chip R.	ERJ2GEJ103X	1 .		X102	XQ0170	VCTCXO	GS46128 21.25M
	EA								
	U	Chip R.	ERJ2GEJ103X	· 1	1 1	X104	XQ0058Z	Xtal	UM5 30.395MHZ
RK35		Chip R. Chip R	ERJ2GEJ103X			X104	XQ0058Z		
RK3550 RK3560	0	Chip R.	ERJ2GEJ683X	1		X104	XQ0058Z XF0014Z	Xtal Filter	30M152A 30.85MHZ
RK358 RK356 RK353	60 30	Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X	1		X104	XQ0058Z XF0014Z FG0320	Xtal Filter SP Cushion	30M152A 30.85MHZ SP CUSHION DR13
RK: RK: RK:	3560 3530 3522	Chip R. Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ470X	1		X104	XQ0058Z XF0014Z FG0320 FG0327	Xtal Filter SP Cushion Cushion	30M152A 30.85MHZ SP CUSHION DR13 CUSHION DR135
RK: RK: RK:	3560 3530 3522	Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X	1		X104	XQ0058Z XF0014Z FG0320	Xtal Filter SP Cushion	30M152A 30.85MHZ SP CUSHION DR13 CUSHION DR135
RK RK RK	(3560 (3530 (3522 (3046	Chip R. Chip R. Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ470X	1		X104	XQ0058Z XF0014Z FG0320 FG0327 SD0034	Xtal Filter SP Cushion Cushion Spring	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13
	<3560 <3530 <3522 <3046 <3041	Chip R. Chip R. Chip R. Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ182	1 1 1		X104	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049	Xtal Filter SP Cushion Cushion Spring Dumper	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER
RRRRRRR	K3560 K3530 K3522 K3046 K3041 K3038	Chip R. Chip R. Chip R. Chip R. Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ182 MCR03EZPJ102	1 1 1 1 1		X104	XQ0058Z XF0014Z FG0320 FG0327 SD0034	Xtal Filter SP Cushion Cushion Spring	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER
	RK3560 RK3530 RK3522 RK3046 RK3041 RK3038 RK3526	Chip R. Chip R. Chip R. Chip R. Chip R. Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ182 MCR03EZPJ102 ERJ2GEJ101X	1 1 1 1 1		X104	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049	Xtal Filter SP Cushion Cushion Spring Dumper	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER
	RK3560 RK3530 RK3522 RK3046 RK3046 RK3038 RK3526 RK3526 RK3534	Chip R. Chip R. Chip R. Chip R. Chip R. Chip R. Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ270X MCR03EZPJ472 MCR03EZPJ182 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ471X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049	Xtal Filter SP Cushion Cushion Spring Dumper	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER
	K3560 K3530 K3522 K3046 K3046 K3038 K3526 K3526 K3534 K3546	Chip R. Chip R. Chip R. Chip R. Chip R. Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ182 MCR03EZPJ102 ERJ2GEJ101X	1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA
	RK3560 RK3530 RK3522 RK3046 RK3046 RK3038 RK3526 RK3526 RK3534 RK3546	Chip R. Chip R. Chip R. Chip R. Chip R. Chip R. Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ471X ERJ2GEJ472X ERJ2GEJ103X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545	Xtal Filter SP Cushion Cushion Spring Dumper	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA
	3560 3530 3522 3046 3041 3038 3526 3534 3546 3550	Chip R. Chip R. Chip R. Chip R. Chip R. Chip R. Chip R. Chip R. Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ471X ERJ2GEJ472X ERJ2GEJ103X	1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA
	K3560 K3530 K3522 K3046 K3041 K3038 K3526 K3534 K3546 K3550 K3550 K3542	Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ222X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA
	<3560 <3530 <3522 <3046 <3041 <3038 <3526 <3534 <3554 <3550 <3550 <3554 <3554	Chip R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ182 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ471X ERJ2GEJ472X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ223X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No.	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA
	RK3560 RK3530 RK3522 RK3046 RK3046 RK3038 RK3526 RK3534 RK3546 RK3550 RK3550 RK3552 RK3554 RK3554 RK3554	Chip R. R. Chip R. C. Chip R. C. Chip R. C. Chip R. C. Chip R. C. Chip R. R. Chip R. R. R. Chip R. R. R. Chip R. R. R. R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ182 MCR03EZPJ182 MCR03EZPJ102 ERJ2GEJ01X ERJ2GEJ471X ERJ2GEJ471X ERJ2GEJ472X ERJ2GEJ103X ERJ2GEJ22X ERJ2GEJ223X ERJ2GEJ223X ERJ2GEJ223X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD al Parts Description Speaker	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS
	RK3560 RK3522 RK3046 RK3046 RK3046 RK3046 RK3526 RK3526 RK3526 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK3542 RK3542	Chip R.R. Chip R.R.C. Chip R.R.C. Chip R.R.C. Chip R.R.C. Chip R.R.C. Chip R.R.C. Chip R.R.C. Chip R.R.C.C	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ223X ERJ2GEJ223X ERJ2GEJ223X ERJ2GEJ223X ERJ2GEJ222X	1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ00582 XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. E\$0035 UX1047	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130
RRRRRRRRRRRRR	K3560 K3530 K3522 K3046 K3046 K3038 K3526 K3554 K3550 K3554 K3554 K3554 K3554 K3554 K3554 K3542	Chip R. R. Chip R. C. Chip R. C. Chip R. C. Chip R. C. Chip R. C. Chip R. R. Chip R. R. R. Chip R. R. R. Chip R. R. R. R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ182 MCR03EZPJ182 MCR03EZPJ102 ERJ2GEJ01X ERJ2GEJ471X ERJ2GEJ471X ERJ2GEJ472X ERJ2GEJ103X ERJ2GEJ22X ERJ2GEJ223X ERJ2GEJ223X ERJ2GEJ223X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD al Parts Description Speaker	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130
	RK3560 RK3530 RK3522 RK3046 RK3048 RK3526 RK3534 RK3546 RK3550 RK3542 RK35542 RK35542 RK35542 RK3548	Chip R.R. Chip R.R. Chip P.R.R. Chip P.R.R. Chip P.R.R. Chip P.R.R. Chip P.R.R. Chip P.R. Chip P	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ1012 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X	1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ00582 XF0014Z FG0320 FG0327 SD0034 T20049 UP0545 Chanic Part No. ES0035 UX1047 AA0050	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR13 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130
	RK3560 RK3530 RK3522 RK3046 RK3046 RK3038 RK3526 RK3534 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK35548 RK3568	Chip R. Chip R	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ182 MCR03EZPJ182 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ471X ERJ2GEJ471X ERJ2GEJ472X ERJ2GEJ222X ERJ2GEJ223X ERJ2GEJ222X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ334X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ00582 XF0014Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD al Parts Description Speaker Wire Screw Nut	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-88C-35 ROHS WIRE DR130 OH M2.64 5F/B.ZN MIC NUT
	RK3560 RK35230 RK3046 RK3046 RK3048 RK3038 RK3058 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK3548 RK3568 RK3568	CHIP R R. R. CHIP P R R. R. CHIP P P R R. R. CHIP P P P P R R. R. CHIP P P P R R. CHIP P P P R R. CHIP P P P R R. CHIP P P P P R R. R. R. R. R. R. R. R. R. R. R. R. R. R	ERJ2GEJ683X ERJ2GEJ21X ERJ2GEJ21X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ223X ERJ2GEJ223X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ334X ERJ2GEJ331X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ00582 XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. E80035 UX1047 AA0050 AN0032 AU0001	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD al Parts Description Speaker Wire Screw Nut Screw	30M152A 30.85MHZ SP CUSHION DR13 CUSHION DR13 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FEN
	RK3560 RK35230 RK3046 RK3046 RK3046 RK3038 RK3538 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK3548 RK3548 RK3548 RK3548 RK3548 RK3548 RK3548 RK3545	Chip R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ222X ERJ2GEJ472X ERJ2GEJ222X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ392X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 T20049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Screw Screw Screw	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR13 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FE/N PH/D6 3+8 FE/N
	RK3560 RK3522 RK3046 RK3046 RK3041 RK3041 RK3528 RK3534 RK3546 RK3542 RK3542 RK3542 RK3542 RK35454 RK3568 RK3568	Chip R. R. Chip P. R. R. Chip P. R. R. R. Chip P. R. R. R. R. Chip P. R. R. Chip P. R. R. Chip P. R. R. Chip P. R. R. R. R. R. R. R. R. R. R. R. R. R. R	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ471X ERJ2GEJ471X ERJ2GEJ472X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ472X ERJ2GEJ331X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ473X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ00582 XF0014Z FG0320 FG0327 SD0034 T20049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0127	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw Screw LCD Panel	30M152A 30.85MHZ SP CUSHION DR13 CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FE/N PH/D6 3+8 FE/N LCD PANNEL DR13
	RK3560 RK3522 RK3046 RK3046 RK3046 RK3041 RK3526 RK3554 RK3542 RK3542 RK3542 RK3542 RK3542 RK3542 RK3548 RK3588 RK3585 RK3558 RK3558 RK3588	Chip R. R. Chip R. R. R. Chip R. R. R. Chip R. R. R. R. Chip R.	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ222X ERJ2GEJ472X ERJ2GEJ222X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ392X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0127 DP0136	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD al Parts Description Speaker Wire Screw Screw Screw Screw LCD Panel LCD Panel	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FEN PH/S B26+8 FEN
	RK3560 RK3522 RK3046 RK3046 RK3041 RK3041 RK3528 RK3534 RK3546 RK3542 RK3542 RK3542 RK3542 RK35454 RK3568 RK3568	Chip R.R. Chip R.R. Chip P.R.R. Chip P.R.R. Chip P.R.R.R. Chip P.R.R.R. Chip P.R.R.R. Chip P.R.R.R.R. Chip P.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ471X ERJ2GEJ471X ERJ2GEJ472X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ472X ERJ2GEJ331X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ473X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ00582 XF0014Z FG0320 FG0327 SD0034 T20049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0127	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw Screw LCD Panel	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FEN PH/S B26+8 FEN
	RK3560 RK35230 RK3046 RK3046 RK3046 RK3526 RK3526 RK3554 RK3554 RK3554 RK3554 RK3548 RK3548 RK3548 RK3548 RK3548 RK3548 RK3548 RK3558 RK3558 RK3558 RK3558 RK3558 RK3558 RK3558 RK3558	CHICAGE CHICAG	ERJ2GEJ683X ERJ2GEJ21X ERJ2GEJ21X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0127 DP0136 FF0015	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw Screw Screw LCD Panel LCD Panel Cloth	30M152A 30.85MHZ SP CUSHION DR13 CUSHION DR13 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FEN PH/D6 3+8 FE/N LCD PANNEL DR13 LCD PANNEL DR13 BLIND CLOTH DR1
	RK3560 RK3530 RK3046 RK3046 RK3046 RK3038 RK3534 RK3534 RK3546 RK3546 RK3546 RK3542 RK3542 RK3542 RK3546 RK3546 RK3546 RK3546 RK3545 RK3545 RK3545 RK3549	Chip P.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ1012 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ334X ERJ2GEJ334X ERJ2GEJ392X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X	111111111111111111111111111111111111111		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 T20049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AN0031 AV0001 DP0127 DP0136 FF0015 FF0017	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw LCD Panel LCD Panel Cloth Cloth	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR13 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FE/N LCD PANNEL DR13 LCD PANNEL DR43 BLIND CLOTH DR5
	RK3560 RK3522 RK3046 RK3046 RK3041 RK3041 RK3526 RK3534 RK3534 RK3546 RK3542 RK3542 RK3542 RK3542 RK3545 RK3545 RK3545 RK3545 RK3545 RK3549 RK3549	Chip R. R. Chip R. R. Chip P. R. R. Chip P. R. R. Chip P. R. R. Chip P. R. R. R. R. Chip P. R	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ471X ERJ2GEJ471X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ334X ERJ2GEJ334X ERJ2GEJ334X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ422X	111111111111111111111111111111111111111		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0127 DP0136 FF0015 FF0017 FG0273	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw Screw LCD Panel LCD Panel LCD Panel Cloth Cloth Rubber	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-88C-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/D6 3+8 FE/N PH/D6 3+8 FE/N PH/D6 3+8 FE/N 20 PANNEL DR13 LCD PANNEL DR13 BLIND CLOTH DR5 ON AIR KEY RUBBE
	RK3560 RK35230 RK3046 RK3046 RK3046 RK3526 RK3526 RK3526 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK3558 RK3558 RK3559 RK3559 RK3559 RK3559 RK3559 RK3559 RK3554 RK3549 RK3554 RK3541	CHCARAR R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R	ERJ2GEJ683X ERJ2GEJ24X ERJ2GEJ21X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ103X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ392X ERJ2GEJ473X ERJ2GEJ473X ERJ2GEJ473X ERJ2GEJ473X ERJ2GEJ473X ERJ2GEJ473X ERJ2GEJ473X ERJ2GEJ472X ERJ2GZ44X ERJ2GEJ47X ERJ2GEJ47X ERJ2GEJ47X ERJ2GEJ47X ERJ2GEJ47X E	111111111111111111111111111111111111111		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. E80035 UX1047 AA0050 AU0001 AW0001 AW0001 AW0001 AW0001 FF0015 FF0017 FF0017 FF0017 FF0017 FF00151	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD al Parts Description Speaker Wire Screw Nut Screw Nut Screw LCD Panel LCD Panel LCD Panel Cloth Rubber Panel	30M152A 30.85MHZ SP CUSHION DR13 CUSHION DR13 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FEN_2N MIC NUT PH/S B26+8 FEN PH/D6 3+8 FE/N LCD PANNEL DR13 LCD PANNEL DR13 BLIND CLOTH DR1 BLIND CLOTH DR1 BLIND CLOTH DR1 BLIND CLOTH DR1 SUN CLOTH DR1 SUN CLOTH DR1 SUN CLOTH DR1
	RK3560 RK3522 RK3046 RK3046 RK3041 RK3041 RK3526 RK3534 RK3534 RK3546 RK3542 RK3542 RK3542 RK3542 RK3545 RK3545 RK3545 RK3545 RK3545 RK3549 RK3549	Chip R. R. Chip R. R. Chip P. R. R. Chip P. R. R. Chip P. R. R. Chip P. R. R. R. R. Chip P. R	ERJ2GEJ683X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ471X ERJ2GEJ471X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ334X ERJ2GEJ334X ERJ2GEJ334X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ472X ERJ2GEJ422X	111111111111111111111111111111111111111		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0127 DP0136 FF0015 FF0017 FG0273	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw Screw LCD Panel LCD Panel LCD Panel Cloth Cloth Rubber	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR13 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FEN.2N MIC NUT PH/S B26+8 FEN PH/D6 3+8 FE/N LCD PANNEL DR13 LCD PANNEL DR13 BLIND CLOTH DR1 BLIND CLOTH DR5 ON AIR KEY RUBBE REAR PANEL DR13
	RK3560 RK3530 RK3522 RK3046 RK3046 RK3048 RK3528 RK3554 RK3554 RK3554 RK3554 RK3554 RK3554 RK3548 RK3548 RK3548 RK3548 RK3545 RK3545 RK3545 RK3545 RK3545 RK3549 RK3549 RK3549 RK3549	Chip PR R.	ERJ2GEJ683X ERJ2GEJ21X ERJ2GEJ21X ERJ2GEJ470X MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ103X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ472X ERJ2GEJ470X ERJ2GEJ31X ERJ2GEJ31X ERJ2GEJ31X ERJ2GEJ31X ERJ2GEJ31X ERJ2GEJ31X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ472X ERJ2GEJ47X ERJ2GEJ47X ERJ2GEJ47X ERJ2GEJ47X ERJ2GEJ47X ERJ2GEJ47X ERJ2GEJ47X ERJ2GEJ47X ERJ2GEJ47X ERJ2GF4X ERJ2GEJ47X ERJ2GF4X ERJ2	111111111111111111111111111111111111111		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 T20049 UP0545 chanic Part No. E\$0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0127 DP0136 FF0015 FF0015 FF00151 FP0188	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw LCD Panel LCD Panel Cloth Cloth Rubber Panel Panel Panel	30M152A 30.85MHZ SP CUSHION DR13 CUSHION DR13 CUSHION DR13 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA PA155FX INTEGRA 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FE/N LCD PANNEL DR13 LCD PANNEL DR13 LCD PANEL DR13 JACK PANEL DR13 JACK PANEL DR13
	RK3560 RK3530 RK3522 RK3046 RK3046 RK3048 RK3534 RK3534 RK3546 RK3546 RK3542 RK3542 RK3542 RK3542 RK3542 RK3545 RK3545 RK3545 RK3549 RK3549 RK3549 RK3549 RK3549 RK3549 RK3549 RK3549 RK3549 RK3549 RK3549 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3540 RK3550	Chip R.	ERJ2GEJ683X ERJ2GEJ2GEJ21X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ334X ERJ2GEJ334X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ473X ERJ2GF473X ERJ2GF473X ERJ2GF473X ERJ2GF473X ERJ2GF473X ERJ2GF473X ERJ2GF473X ERJ2GF473X ERJ2GF474X ERJ2GF474	111111111111111111111111111111111111111		X104 XF101	XQ00582 XF0014Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0136 FF0015 FF0015 FF0017 FG0273 FP0151 FP0158 KS0096	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw LCD Panel LCD Panel Cloth Cloth Rubber Panel Panel Bottom Case	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FE/N LCD PANNEL DR13 BLIND CLOTH DR1 BLIND CLOTH DR3 BLIND CLOTH DR3 BLIN
	RK3560 RK35230 RK3046 RK3046 RK3046 RK3038 RK3058 RK3058 RK3540 RK3540 RK3542 RK3544 RK3542 RK3548 RK3548 RK3548 RK3538 RK3548 RK3538 RK3549 RK3549 RK3541 RK3550 RK3541 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3550 RK3551 RK3550 RK350 RK350 RK350 RK350 RK350 RK350 RK350 RK350 RK	CHICAGE CHICAG	ERJ2GEJ683X ERJ2GEJ24X ERJ2GEJ24X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ334X ERJ2GEJ334X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ470X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0136 FF0015 FF0015 FF00151 FP0188 KS0098 KS0098	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD al Parts Description Speaker Wire Screw Nut Screw Screw LCD Panel LCD Panel LCD Panel Cloth Cloth Rubber Panel Bottom Case Front Case	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR13 CUSHION DR13 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FEN.2N MIC NUT PH/S B26+8 FEN PH/S B26+8 FEN PH/
	RK3560 RK35230 RK3046 RK3046 RK3046 RK3038 RK3536 RK3536 RK3554 RK3554 RK3554 RK3540 RK3540 RK3542 RK3548 RK3548 RK3548 RK3549 RK3549 RK3541 RK3549 RK3541 RK3549 RK3541 RK3550 RK3550 RK3550 RK3558 RK3538 RK3550 RK550 RK	Chicken R.	ERJ2GEJ683X ERJ2GEJ24X ERJ2GEJ24X ERJ2GEJ2470X MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ822X ERJ2GEJ822X ERJ2GEJ822X ERJ2GEJ822X ERJ2GEJ822X ERJ2GEJ102X ERJ2GEJ102X ERJ2GEJ102X ERJ2GEJ102X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0136 FF0015 FF0015 FF0017 FG0273 FP0151 FP0188 KS0096 KZ0105 NK0072	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw LCD Panel LCD Panel LCD Panel Cloth Cloth Cloth Rubber Panel Panel Panel Bottom Case Front Case	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR436FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FE/N LCD PANNEL DR13 LCD PANNEL DR13 LCD PANNEL DR13 BLIND CLOTH DR5 ON AIR KEY RUBBI REAR PANEL DR13 JACK PANEL DR13 JACK PANEL DR13 BOTTOM CASE DF FRONT ASSY, DR1
	RK3560 RK35230 RK3046 RK3046 RK3046 RK3038 RK3058 RK3058 RK3540 RK3540 RK3542 RK3544 RK3542 RK3548 RK3548 RK3548 RK3538 RK3548 RK3538 RK3549 RK3549 RK3541 RK3550 RK3541 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3551 RK3550 RK3550 RK3551 RK3550 RK350 RK350 RK350 RK350 RK350 RK350 RK350 RK350 RK	CHICAGE CHICAG	ERJ2GEJ683X ERJ2GEJ24X ERJ2GEJ24X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ334X ERJ2GEJ334X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ470X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0036 UX1047 AA0050 AN0032 AV0001 AW0001 DP0127 DP0136 FF0015 FF0015 FF0015 FF00151 FF00151 FF00151 FF0151 FF0151 FP0188 KS0098 KZ0105 NK0072 NK0073	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw LCD Panel LCD Panel Cloth Cloth Rubber Panel Bottom Case Front Case Knob	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/N ZI MIC NUT PH/S B26+8 FEN PH/S B26+8 FEN PH/S B26+8 FEN LCD PANNEL DR13 BLIND CLOTH DR1 BLIND CLOTH CH1 BLIND CLOTH CH1
	RK3560 RK3530 RK3522 RK3046 RK3046 RK3048 RK3538 RK3530 RK3534 RK3546 RK3546 RK3547 RK3547 RK3547 RK3548 RK3548 RK3548 RK3548 RK3549 RK3550 RK3559 RK5559 RK	Chicken R.	ERJ2GEJ683X ERJ2GEJ2GEJ21X ERJ2GEJ221X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ334X ERJ2GEJ334X ERJ2GEJ392X ERJ2GEJ392X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ470X ERJ2GEJ102X ERJ2GEJ102X ERJ2GEJ102X ERJ2GEJ102X ERJ2GEJ102X ERJ2GEJ102X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0136 FF0015 FF0015 FF0017 FG0273 FP0151 FP0188 KS0096 KZ0105 NK0072	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw LCD Panel LCD Panel Cloth Cloth Rubber Panel Bottom Case Front Case Knob	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR13 GND SPRING DR13 SILICON DUMPER DR436FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.2N MIC NUT PH/S B26+8 FEN PH/D6 3+8 FE/N LCD PANNEL DR13 LCD PANNEL DR13 LCD PANNEL DR13 BLIND CLOTH DR5 ON AIR KEY RUBBI REAR PANEL DR13 JACK PANEL DR13 JACK PANEL DR13 JACK PANEL DR13 JACK PANEL DR13
	RK3560 RK3522 RK3046 RK3046 RK3041 RK3048 RK3546 RK3534 RK3546 RK3542 RK3542 RK3542 RK3542 RK3542 RK3542 RK3548 RK3549 RK3549 RK3549 RK3549 RK3549 RK3549 RK3549 RK3549 RK3549 RK3541 RK3549 RK3549 RK3549 RK3541 RK3549 RK3549 RK3541 RK3549 RK3541 RK3549 RK3541 RK3549 RK3541 RK3549 RK3541 RK3549 RK3541 RK3549 RK3541 RK3548 RK3543 RK3544 RK3544 RK3544	Chip P.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R	ERJ2GEJ683X ERJ2GEJ2GEJ21X ERJ2GEJ221X MCR03EZPJ472 MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ471X ERJ2GEJ471X ERJ2GEJ472X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ222X ERJ2GEJ472X ERJ2GZ472X ERJ2GZ47X ERJ2GZ47X ERJ2GZ47X ERJ2GZ47X ERJ2GZ47	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Part No. ES0035 UX1047 AA0050 AN0032 AU0001 DP0127 DP0136 FF0015 FF0017 FF0015 FF0017 FP0158 KS0096 KZ0105 NK0072 NK0073 SP0008	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw Nut Screw LCD Panel LCD Panel LCD Panel Cloth Cloth Cloth Rubber Panel Bottom Case Front Case Knob Knob	30M152A 30.85MH2 SP CUSHION DR13 CUSHION DR135 GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S 826+8 FE/N LCD PANNEL DR13 BLIND CLOTH DR1 BLIND CLOTH DR1 BLIND CLOTH DR13 BLIND CLOTH DR13 BLIND CLOTH DR13 BOTTOM CASE DR FRONT ASSY, DR13 YOLKNOB DR135 GND TERM XM501
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RK38 RK38 RK38 RK38 RK38 RK38 RK38 RK38	560 530 532 532 546 546 555 554 555 555 555 555 555 555	Chicken R.	ERJ2GEJ683X ERJ2GEJ24X ERJ2GEJ2470X MCR03EZPJ472 MCR03EZPJ102 ERJ2GEJ101X ERJ2GEJ471X ERJ2GEJ101X ERJ2GEJ103X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ103X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ222X ERJ2GEJ470X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ331X ERJ2GEJ102X ERJ2GEJ10X ERJ2GEJ10X ERJ2GEJ10X ERJ2GEJ10X ERJ2GEJ10X ERJ2GEJ10X ERJ2GEJ10X ERJ2GEJ10X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X104 XF101	XQ0058Z XF0014Z FG0320 FG0327 SD0034 TZ0049 UP0545 Chanic Part No. ES0035 UX1047 AA0050 AN0032 AU0001 AW0001 DP0136 FF0015 FF0017 FG0273 FF00151 FF0015 FF0015 FF0015 FF0015 FF0015 FF0015 FF0015 ST0066 ST006 ST0066 ST0	Xtal Filter SP Cushion Cushion Spring Dumper P.C.BOARD Description Speaker Wire Screw Nut Screw LCD Panel LCD Panel LCD Panel Cloth Cloth Cloth Rubber Panel Bottom Case Front Case Knob GND Terminal Chassis SP Holder SP Fitting SP Himeron ANT Tape Label Label	30M152A 30.85MHZ SP CUSHION DR13: CUSHION DR13: GND SPRING DR13 SILICON DUMPER DR435FX INTEGRA Parts Name 57-8BC-35 ROHS WIRE DR130 OH M2.6+6 FE/B.ZN MIC NUT PH/S B26+8 FE/N LCD PANNEL DR13 LCD PANNEL DR13 LCD PANNEL DR13 LCD PANNEL DR13 LCD PANNEL DR13 JACK PANEL DR13 JACK PANEL DR13 JACK PANEL DR13 JACK PANEL DR13 JACK PANEL DR13 JACK PANEL DR13 SOTTOM CASE DR FRONT ASSY. DR13 SP HOLDER DR135 SP HOLDER DR135 SP HOLDER DR135 SP HOLDER DR135 SP HIMERON DR135 SP HOLDER DR135 SP HIMERON DR135 SP HIMERON DR135 SP HOLDER DR135 SP HIMERON DR135 SP

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Qty

DR-135 DR-435

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FX FXE

FXE

Ver.

Ver.

Packing Parts

Ref No. Part No.		Description	Parts Name	Qty.		Ver.
1101110.				DR-135	DR-435	
	DS0446	Label	NITTO MODEL PLATE(S)	1.4	1.4	FXE
	HK0539	Packege	PACKAGE DR135Z	1	0	1
i i	HK0540	Packege	PACKAGE DR435Z	0	1	
	HM0218Z	Carton Box	MASTER CARTON	0.2	0.2	
	HU0099Z	P.MTL/Carton	FRONT INNER DR605	1	1	
	HU0159Z	P.MTL/Carton	INNER DR135T	1	1	
	HU0161Z	P.MTL/Carton	INNER 5 PCS	0.4	0.4	
I '	PR0478	Label	SERIAL SEAL	1.2	1.2	FX
	PR0513	Label	NITTO 13X13 LABEL(W)	3	3	FX
	PR0513	Label	NITTO 13X13 LABEL(W)	4	4	FXE
	PR0514	Label	EPSON 10X49 LABEL(W)	2	2	
	PR0635	Label	N-30*50	1	1	FXE

ACCESSORIES

Ref No.	Part No.	Description	Parts Name	Qty.		Ver.	
Kerno.				DR-135	DR-435	¥101 .	
	ADFM78	Bracket	BRACKET DR130	1	1		
	ADUA38	Power Cable	R-B2.0X3M RECEPT.15A	1	1		
	EHM538	Microphone	MICROPHON EMS53B	1	1	1	
t i	HP0009	Plastic Bag	PLA, BAG 5X125X250	1	1	l î	
	HP0035	Plastic Bag	E.BAG 5X200X250	1	1		
	PK0111	Diagram	SCHEMATIC DR135MK3	1	0	FXE	
	PK0113	Diagram	SCHEMATIC DR435MK3	0	1	FXE	
	PS0513A	Manual	INSTRUCTION	1	1		

ACCESSORIES (SCREW SET)

Ref No.	Part No.	Description	Parts Name	Oty. DR-1351DR-435		Ver.
<u> </u>	AA0013	Screw	BH M5+20 FE/ZN	4	DR-435	
I	AE0012	Screw	HEXH/D M4+8 FE/3BBC	4	4	
	AJ0003	Screw	BH T5+20 FE/ZN 1	4	4	
	AN0002	Nut	HEX N5X0.8 FE/ZN	4	4	
	AZ0009	Washer	SW 5X9.2X1.3 FE/ZN	4	4	
	AZ0010	Washer	SW 5X12X0.8 FE/ZN	4	4	
	EF0005	Fuse	FGBO 15A	2	2	
	FM0079Z	Spanner	SPANNER DR130	1	1	
	HP0006	Plastic Bag	5X90X170	1	1	
	YZ0121	Tape	TAPE 10MM	2	2	

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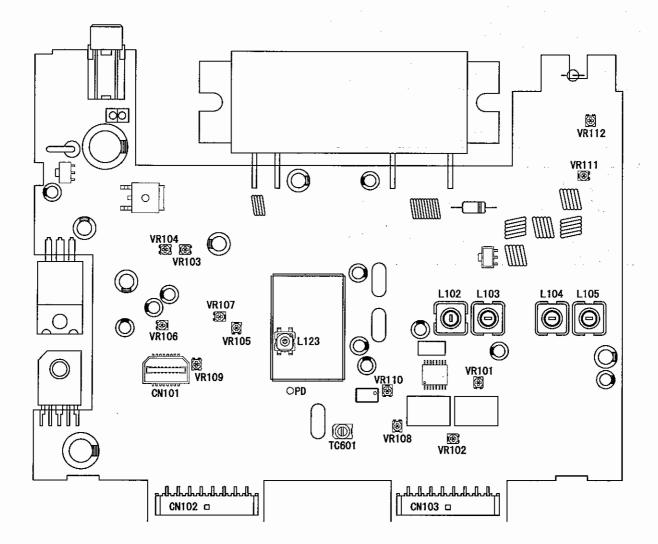
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DR-135 ADJUSTMENT

1) Adjustment Spot

Power Supply Voltage 13.8V Output of SSG is all EMF indication. If without instruction, WIDE mode. If without instruction, SSG output is MOD 1KHz WIDE DEV 3.5KHz/DEV, NARROW DEV 1.75KHz/DEV. Standard modulation is also based above. Speaker load is 8 ohm and output is 50 ~ 100 mV.



2) VCO and RX Adjustment Specification

ITEM	CONDITION	UNIT	ADJ. SPOT	ADJUSTING MRTHOD
Adjustment Frequency	145.90MHz TX	MAIN	TC601	Adjust so that Tx Frequency becomes within 145.90MHz +/- 100Hz
VCO Adjustment	146.00MHz RX	MAIN	L123	Adjust so that PD voltage becomes 2.7V
VCO Confirmation	173.99MHz RX	MAIN		Confirm if PD voltage becomes less than 7.3V
Rx Signal Sensitivity Adjustment	146.05MHz 136.05MHz 146.05MHz 173.95MHz	MAIN	L105, L104 L103, L102	Repeatedly adjust so that the Rx sensitivity becoms in maximum/. Confirm: At –7dBu SINAD more than 12dB At –8dBu SINAD more than 12dB At –6dBu SINAD more than 12dB
Squelch Adjustment	146.05MHz SSG OFF Indicate 01	MAIN	VR101	Adjust so that the squelch stops at perfectly close location
S Meter Adjustment	146.05MHz SSG 20dBu 1KHz Indicate 01	MAIN	VR102	Adjust so that all the indicator appears

3) TX Adjustment Specification

ITEM	CONDITION	UNIT	ADJ. SPOT	ADJUSTING MRTHOD
HI POWER Adjustment	146.00MHz HI POWER	MAIN	VR103	Adjust to 50.0 +/- 1.0W
MID POWER Adjustment	146.00MHz MID POWER	MAIN	VR104	Adjust to 20.0 +/- 1.0W
LOW POWER Confirmation	146.00MHz LOW POWER	MAIN		Confirm if it becomes 5.0 +/- 1.0W
Maximum Deviation Adjustment	146.00MHz MOD 1KHz 40mVemf WIDE	MAIN	VR107	4.5 +/- 0.1KHz/DEV
Maximum Deviation Confirmation	146.00MHz MOD 1KHz 40mVemf NARROW	MAIN		2.2 +/- 0.2KHz/DEV
Mic Gain Adjustment	146.00MHz MOD 1KHz 4mVemf WIDE	MAIN	VR106	3.0 +/- 0.1KHz/DEV
CTCSS Modulation Level Confirmation	146.00MHz 88.5Hz	MAIN		800 +/- 200Hz/DEV 3KHz LPF ON
DCS Modulation Level Adjustment	146.00MHz 255 Code	MAIN	VR108	800 +/- 50Hz/DEV 3KHz LPF ON
1750Hz Modulation Level Adjustment	146.00MHz 1750Hz	MAIN	VR109	3.0 +/- 0.5KHz/DEV
DTMF Modulation Level Confirmation	146.00MHz DTMF 1 Press the V/M key during TX	MAIN		3.0 +/- 0.5KHz/DEV

4) RX Test Specification

TEST ITEM	CONDITION	ADJ. STANDARD	TEST STANDARD	NOTE
RX Signal Sensitivity	136.05MHz 146.05MHz 173.95MHz	Less than –7dBu Less than –8dBu Less than –6dBu	Less than6dBu Less than7dBu Less than5dBu	12dB SINAD
	146.05MHz NARROW	Less than –8dBu	Less than –7dBu	
RX Distortion	146.05MHz WIDE NARROW	Less than 4%	Less than 5%	SSG Output 30dBu
RX S/N	146.05MHz WIDE	More than 40dB	More than 38dB	SSG Output 30dBu 0.3 ~ 3KHz BPF OFF
	146.00MHz NARROW	More than 34dB	More than 32dB	
Squelch	146.05MHz	Squelch Open	Squelch Open	SSG Output10dBu
Sensitivity	Indication 02	Squelch Close	Squelch Close	SSG Output OFF
S Meter	146.05MHz 1KHz 3.5KHz/DEV	All appears at 20dBu	All appears at 25dBu	Decrease SSG level and decrease S Meter level
AF Output	146.05MHz	More than 2W	More than 2W	SSG Output 30dBu
CTCSS Sensitivity	146.05MHz WIDE	Open at 500Hz/DEV	Open at 500Hz/DEV	SSG Output 0dBu 88.5Hz
	146.05MHz NARROW	Open at 250Hz/DEV	Open at 250Hz/DEV	
DCS Sensitivity	146.05MHz WIDE	Opens when Test Equipment is in TX	Opens when Test Equipment is in TX	255 Code
	146.05MHz NARROW	Opens when Test Equipment is in TX	Opens when Test Equipment is in TX	
Drain Current	146.05MHz	Less than 0.65A	Less than 0.65A	Max volume
Power off Current	146.05MHz	Less than 10mA	Less than 10mA	Power off
Howling	146.05MHz	Don't occur	Don't occur	SSG Output 60dBu Mod off, Max volume

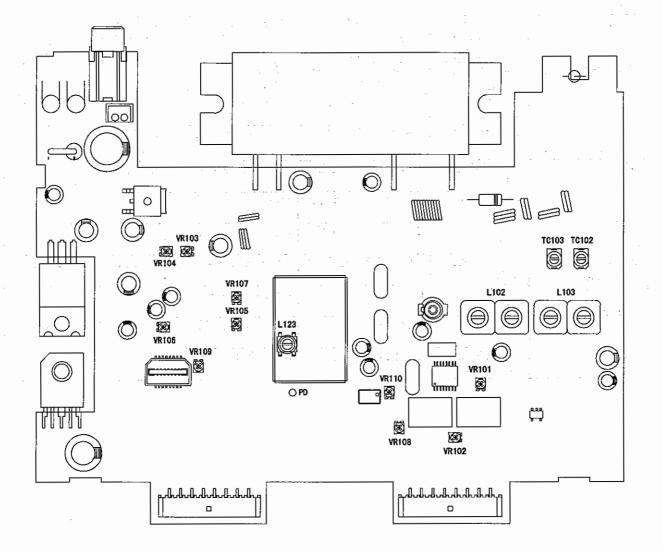
5) TX Test Specification

TEST ITEM	CONDITION	ADJ. STANDARD	TEST STANDARD	NOTE
Tx Output HI POWER	144.00MHz 146.00MHz 148.00MHz	50 +/- 1W	50 +/- 3W 50 +/- 3W 50 +/- 3W	
Tx Output MID POWER	146.00MHz	20 +/- 1W	20 +/- 2W	
Tx Output LOW POWER	146.00MHz	5 +/- 1W	3~6W	
Drain Current	146.00MHz	Less than 11A	Less than 12A	
Frequency Deviation	146.00MHz	Within +/- 0.1KHz	Within +/- 0.5KHz	
Spurious	144.00MHz 146.00MHz 148.00MHz	More than 65dB More than 65dB More than 65dB	More than 60dB More than 60dB More than 60dB	MID and LOW standard power is also the same as of HI power level
Modulation Level	146.00MHz WIDE	3.0 +/- 0.1KHz/DEV 4.5 +/- 0.1KHz/DEV	3.0 +/- 0.2KHz/DEV 4.5 +/- 0.2KHz/DEV	MIC in 1KHz 4mVemf MIC in 1KHz 40mVemf
	146.00MHz NARROW	2.2 +/- 0.2KHz/DEV	2.2 +/- 0.3KHz/DEV	MIC in 1KHz 40mVemf
CTCSS Modulation Level	146.00MHz WIDE	800 +/- 200Hz/DEV	800 +/- 200Hz/DEV	88.5Hz 3KHz LPF ON
DCS Modulation Level	146.00MHz WIDE	800 +/- 200Hz/DEV	800 +/- 200Hz/DEV	255 Code 3KHz LPF ON
	146.00MHz NARROW	450 +/- 100Hz/DEV	450 +/- 100Hz/DEV	· ·
1750Hz Modulation Level	146.00MHz WIDE	3.0 +/- 0.5KHz/DEV	3.0 +/- 0.5KHz/DEV	
DTMF Modulation Level	146.00MHZ WIDE	3.0 +/- 0.5KHz/DEV	3.0 +/- 0.5KHz/DEV	Press the V/M key during TX
Modulation Distortion	146.00MHz WIDE	Less than 3%	Less than 4%	
TX S/N	146.00MHz WIDE	More than 40dB	More than 38dB	0.3 ~ 3KHz BPF ON
	146.00MHz NARROW	More than 34dB	More than 32dB	

DR-435 ADJUSTMENT

1) Adjustment Spot

Power Supply Voltage 13.8V Output of SSG is all EMF indication. If without instruction, WIDE mode. If without instruction, SSG output is MOD 1KHz WIDE DEV 3.5KHz/DEV, NARROW DEV 1.75KHz/DEV. Standard modulation is also based above. Speaker load is 8 ohm and output is 50 ~ 100 mV.



2) VCO and RX Adjustment Specification

ITEM	CONDITION	UNIT	ADJ. SPOT	ADJUSTING MRTHOD
Adjustment Frequency	439.90MHz TX	MAIN	VR110	Adjust so that Tx Frequency becomes within 439.90MHz +/- 100Hz
VCO Adjustment	425.00MHz RX	MAIN	L123	Adjust so that PD voltage becomes 2.0V
VCO Confirmation	511.99MHz RX	MAIN		Confirm if PD voltage becomes less than 9.0V
Rx Signal Sensitivity Adjustment	440.05MHz	MAIN	TC103, TC102 L103, L102	It is a tracking generator from an antenna connector. –30dBm is inputted. And when CN109 is seen with a spectrum analyzer, by the maximum gain, it becomes as it is shown in the following figure, and appearance adjustment is carried out. 430.00MHz 450.00MHz
	430.05MHz 440.05MHz 450.05MHz			At –7.5dBu SINAD more than 12dB At –7.5dBu SINAD more than 12dB At –7.5dBu SINAD more than 12dB
Squeich Adjustment	440.05MHz SSG OFF Indicate 01	MAIN	VR101	Adjust so that the squelch stops at perfectly close location
S Meter Adjustment	440.05MHz SSG 20dBu 1KHz Indicate 01	MAIN	VR102	Adjust so that all the indicator appears

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3) TX Adjustment Specification

ITEM	CONDITION	UNIT	ADJ. SPOT	ADJUSTING MRTHOD
HI POWER Adjustment	440.00MHz HI POWER	MAIN	VR103	Adjust to 35.0 +/- 1.0W
MID POWER Adjustment	440.00MHz MID POWER	MAIN	VR104	Adjust to 20.0 +/- 1.0W
LOW POWER Confirmation	440.00MHz LOW POWER	MAIN		Confirm if it becomes 5.0 +/- 1.0W
Maximum Deviation Adjustment	440.00MHz MOD 1KHz 40mVemf WIDE	MAIN	VR107	4.5 +/- 0.1KHz/DEV
Maximum Deviation Confirmation	440.00MHz MOD 1KHz 40mVemf NARROW	MAIN		2.2 +/- 0.2KHz/DEV
Mic Gain Adjustment	440.00MHz MOD 1KHz 4mVemf WIDE	MAIN	VR106	3.0 +/- 0.1KHz/DEV
CTCSS Modulation Level Confirmation	440.00MHz 88.5Hz	MAIN		800 +/- 200Hz/DEV 3KHz LPF ON
DCS Modulation Level Adjustment	440.00MHz 255 Code	MAIN	VR108	800 +/- 50Hz/DEV 3KHz LPF ON
1750Hz Modulation Level Adjustment	440.00MHz 1750Hz	MAIN	VR109	3.0 +/- 0.5KHz/DEV
DTMF Modulation Level Confirmation	440.00MHz DTMF 1 Press the V/M key during TX	MAIN		3.0 +/- 0.5KHz/DEV

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4) RX Test Specification

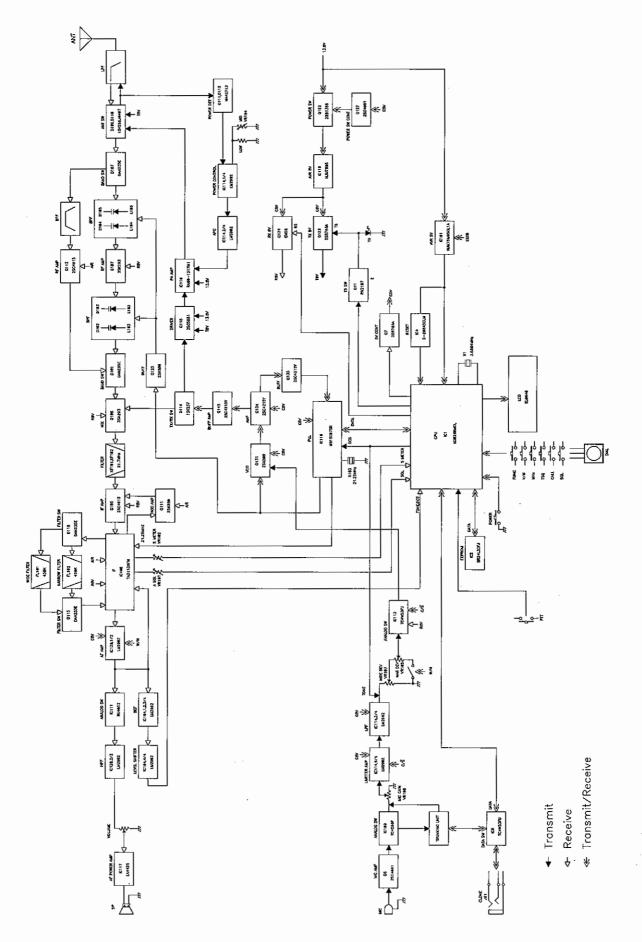
TEST ITEM	CONDITION	ADJ. STANDARD	TEST STANDARD	NOTE
RX Signal	350.05MHz	Less than -1.0dBu	Less than +0.0dBu	12dB SINAD
Sensitivity	430.05MHz	Less than7.5dBu	Less than6.5dBu	
	440.05MHz	Less than -7.5dBu	Less than -6.5dBu	
	450.05MHz	Less than –7.5dBu	Less than -6.5dBu	
	511.95MHz	Less than +1.0dBu	Less than +2.0dBu	
	440.05MHz	Less than –8dBu	Less than –7dBu	
	NARROW			
RX Distortion	440.05MHz			SSG Output 40dBu
	WIDE	Less than 4%	Less than 5%	
	NARROW			
RX S/N	440.05MHz	More than 40dB	More than 38dB	SSG Output 40dBu
··· · .	WIDE			0.3 ~ 3KHz BPF OFF
	440.00MHz	More than 34dB	More than 32dB	
Ormerlah	NARROW	Courselable On an	Onumber On an	CCC Cuteut (OdBu
Squelch	440.05MHz	Squelch Open	Squelch Open	SSG Output –10dBu
Sensitivity	Indication 02	Squelch Close	Squeich Close	SSG Output OFF
S Meter	440.05MHz	All appears at	All appears at	Decrease SSG level and
	1KHz	20dBu	25dBu	decrease S Meter level
	3.5KHz/DEV	11		
AF Output	440.05MHz	More than 2W	More than 2W	SSG Output 30dBu
CTCSS	440.05MHz	Open at	Open at	SSG Output 0dBu 88.5Hz
Sensitivity	WIDE	500Hz/DEV	500Hz/DEV	88.5HZ
	440.05MHz	Open at	Open at 250Hz/DEV	
	NARROW	250Hz/DEV		255 Code
DCS Sensitivity	440.05MHz WIDE	Opens when Test Equipment is in TX	Opens when Test Equipment is in TX	200 Code
	440.05MHz	Opens when Test	Opens when Test	
	NARROW	Equipment is in TX	Equipment is in TX	
Drain Current	440.05MHz	Less than 0.65A	Less than 0.65A	Max volume
	440.05MHz	Less than 10mA	Less than 10mA	Power off
Power off Current				
Howling	440.05MHz	Don't occur	Don't occur	SSG Output 60dBu Mod off, Max volume
		l		wou on, wax volume

5) TX Test Specification

TEST ITEM	CONDITION	ADJ. STANDARD	TEST STANDARD	NOTE
Tx Output HI POWER	430.00MHz 440.00MHz 450.00MHz	35 +/- 1W	35 +/- 5W 35 +/- 3W 35 +/- 5W	
Tx Output MID POWER	440.00MHz	20 +/- 1W	20 +/- 2W	
Tx Output LOW POWER	440.00MHz	5 +/- 1W	3~6W	
Drain Current	440.00MHz	Less than 11A	Less than 12A	
Frequency Deviation	440.00MHz	Within +/- 0.1KHz	Within +/- 0.3KHz	· · · · · ·
Spurious	430.00MHz 440.00MHz 450.00MHz	More than 65dB More than 65dB More than 65dB	More than 60dB More than 60dB More than 60dB	MID and LOW standard power is also the same as of HI power level
Modulation Level	440.00MHz WIDE 440.00MHz	3.0 +/- 0.1KHz/DEV 4.5 +/- 0.1KHz/DEV 2.2 +/- 0.2KHz/DEV	3.0 +/- 0.2KHz/DEV 4.5 +/- 0.2KHz/DEV 2.2 +/- 0.3KHz/DEV	MIC in 1KHz 4mVemf MIC in 1KHz 40mVemf MIC in 1KHz 40mVemf
	NARROW			
CTCSS Modulation Level	440.00MHz WIDE	800 +/- 200Hz/DEV	800 +/- 200Hz/DEV	88.5Hz 3KHz LPF ON
DCS Modulation Level	440.00MHz WIDE	800 +/- 200Hz/DEV	800 +/- 200Hz/DEV	255 Code 3KHz LPF ON
	440.00MHz NARROW	450 +/- 100Hz/DEV	450 +/- 100Hz/DEV	
1750Hz Modulation Level	440.00MHz WIDE	3.0 +/- 0.5KHz/DEV	3.0 +/- 0.5KHz/DEV	
DTMF Modulation Level	440.00MHZ WIDE	3.0 +/- 0.5KHz/DEV	3.0 +/- 0.5KHz/DEV	Press the V/M key during TX
Modulation Distortion	440.00MHz WIDE	Less than 3%	Less than 4%	
TX S/N	440.00MHz WIDE	More than 40dB	More than 38dB	0.3 ~ 3KHz BPF ON
	440.00MHz NARROW	More than 34dB	More than 32dB	

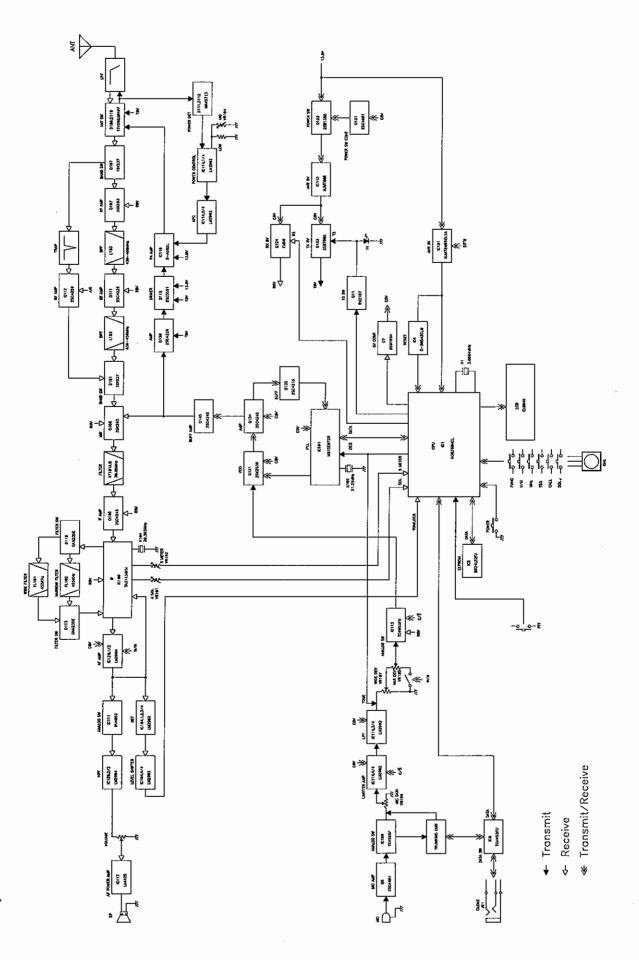
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BLOCK DIAGRAM



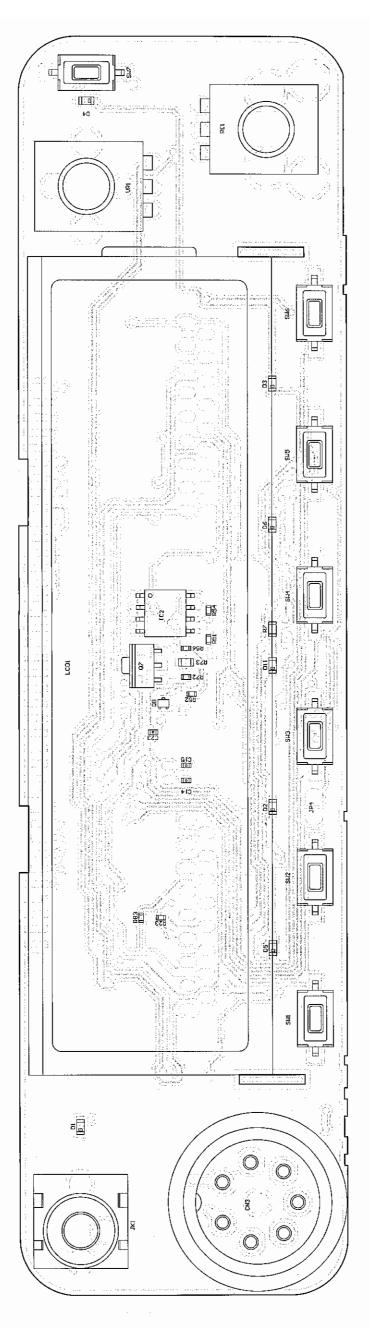
1) DR-135

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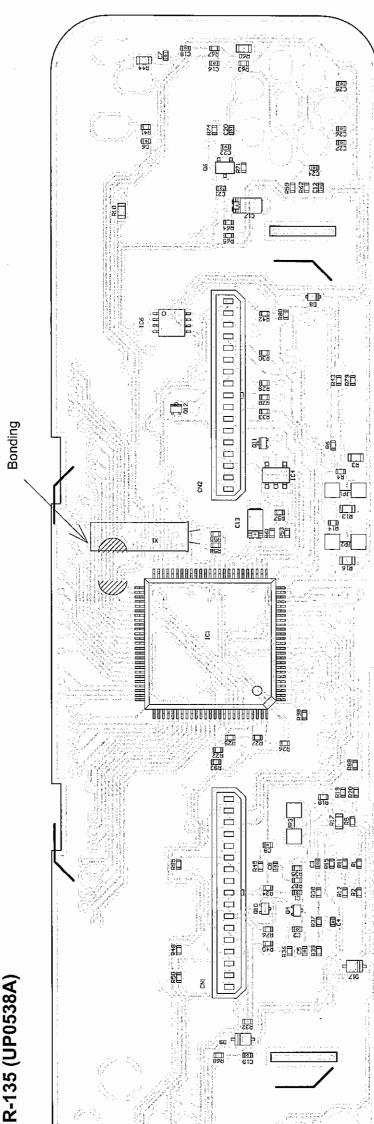


2) DR-435







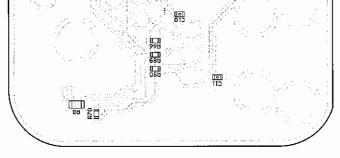


JP3	NC	JUMPER
R16	0	NC
R13	NC	0
	DR135FX	DR135FXE

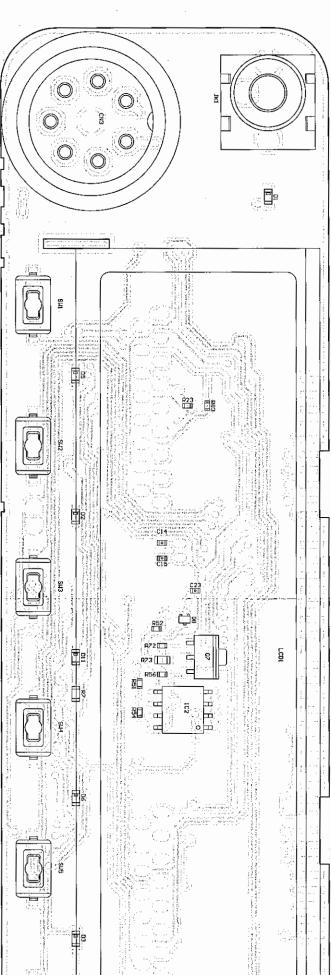
PC BOARD VIEW

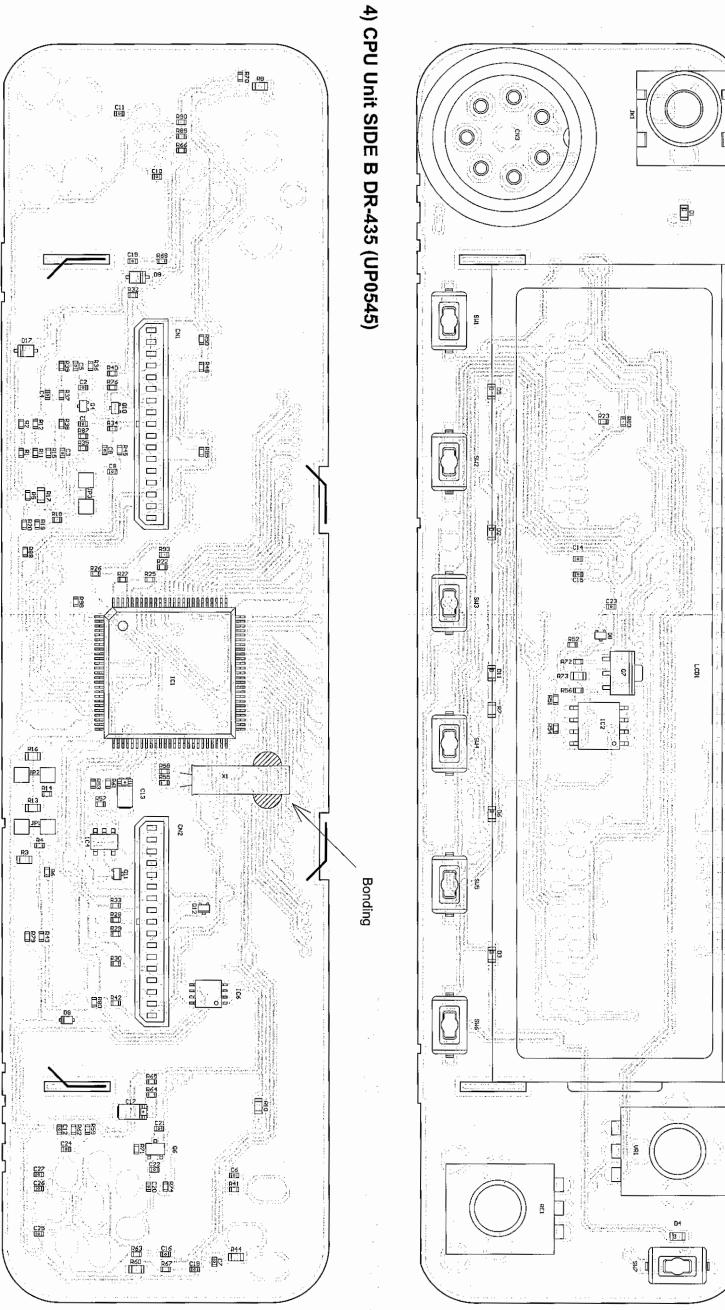
1) CPU Unit SIDE A I

2) CPU Unit SIDE B



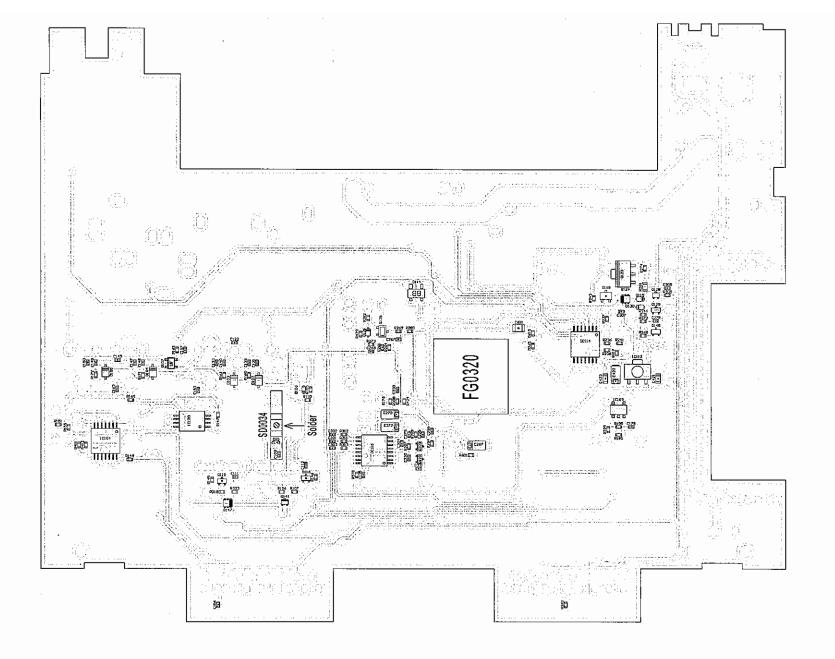


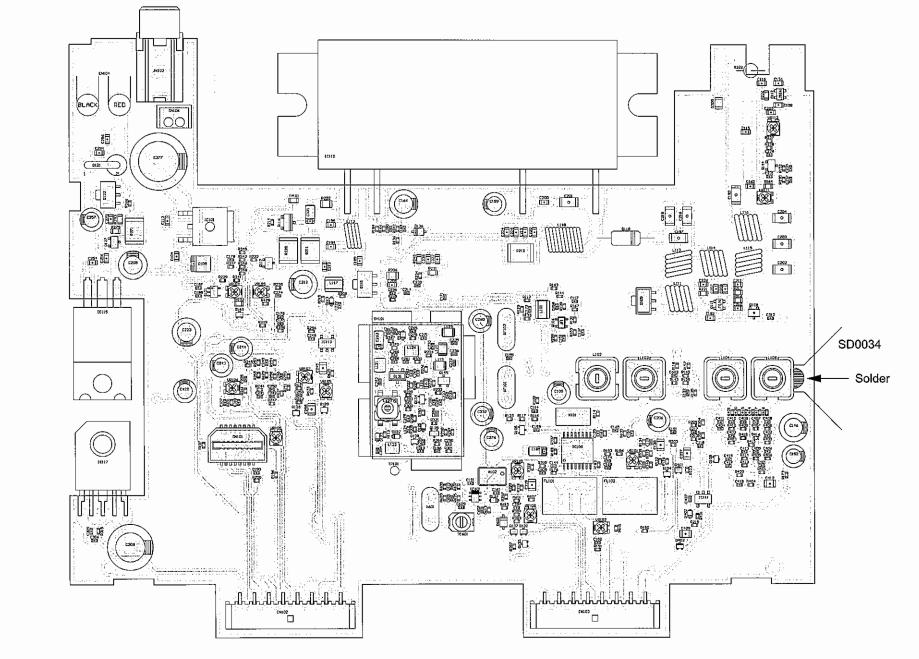




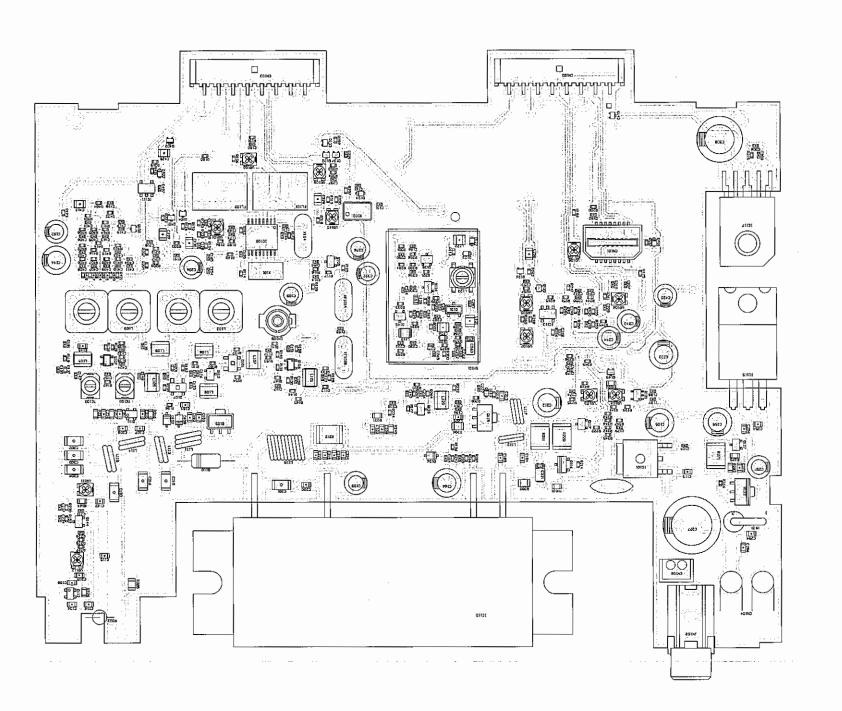
JUMPER	NC	0	DR435FXE
NC	0	NC	DR435FX
JP3	R16	R13	





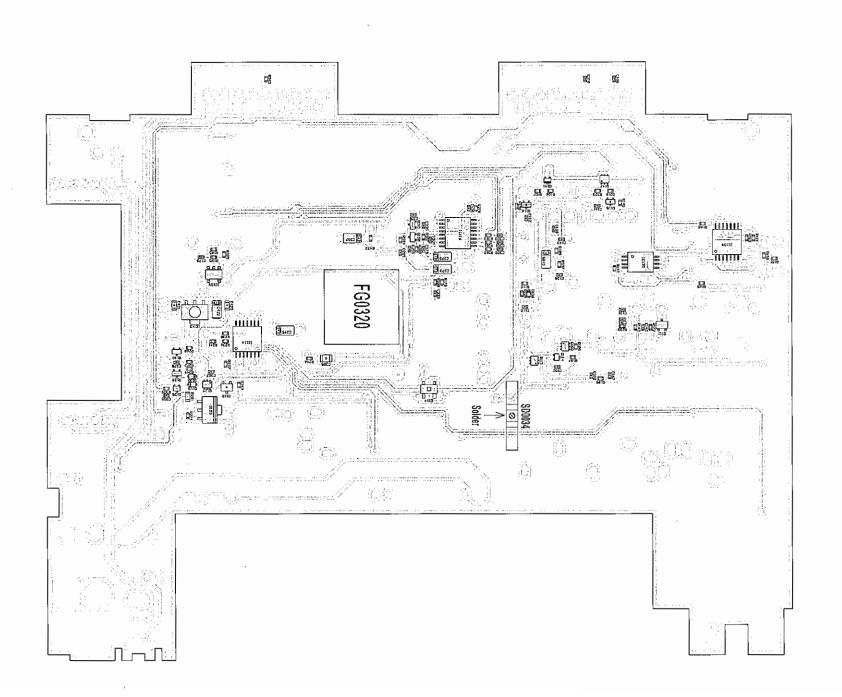


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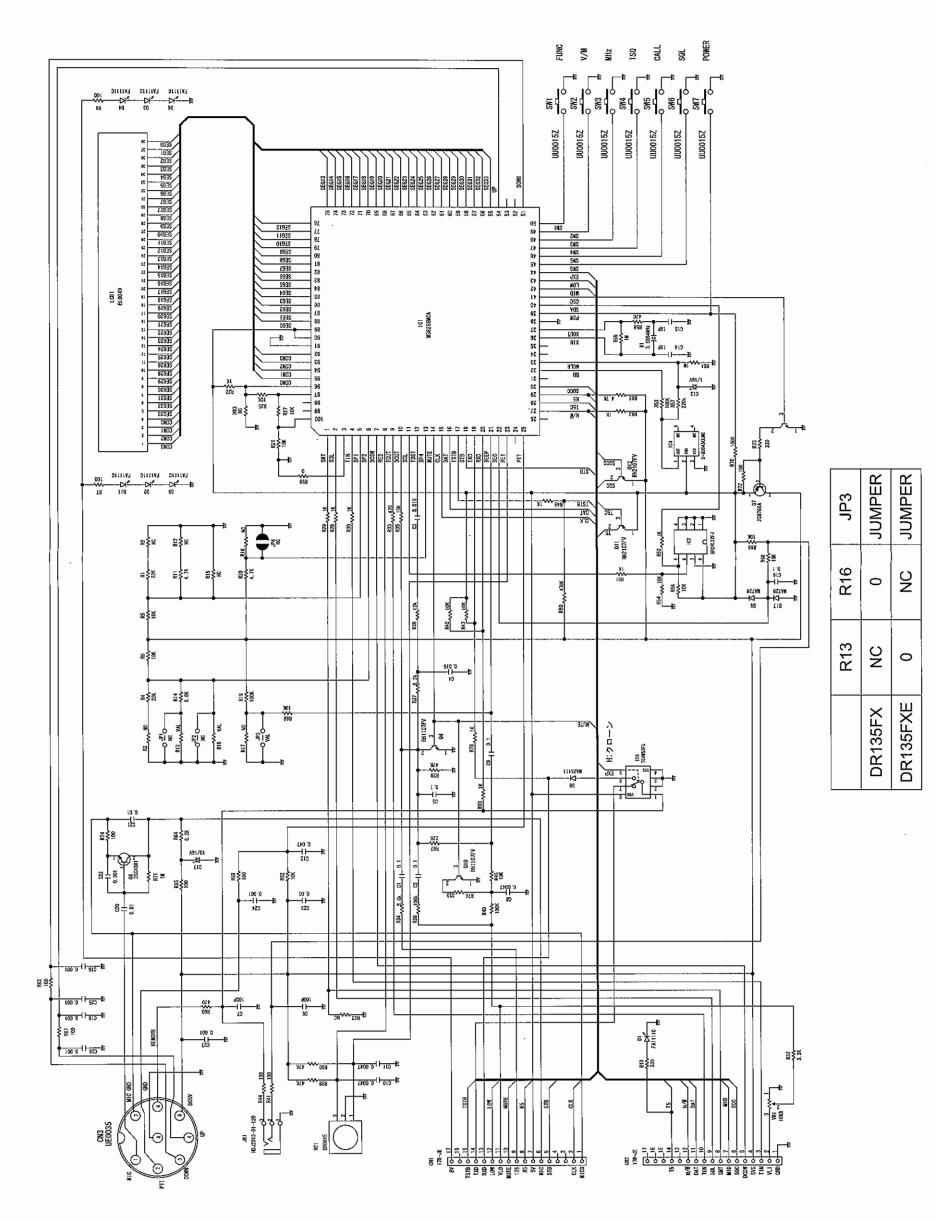
7) MAIN Unit Side A DR-435 (UP0545)

8) MAIN Unit Side B DR-435



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(UP0545)

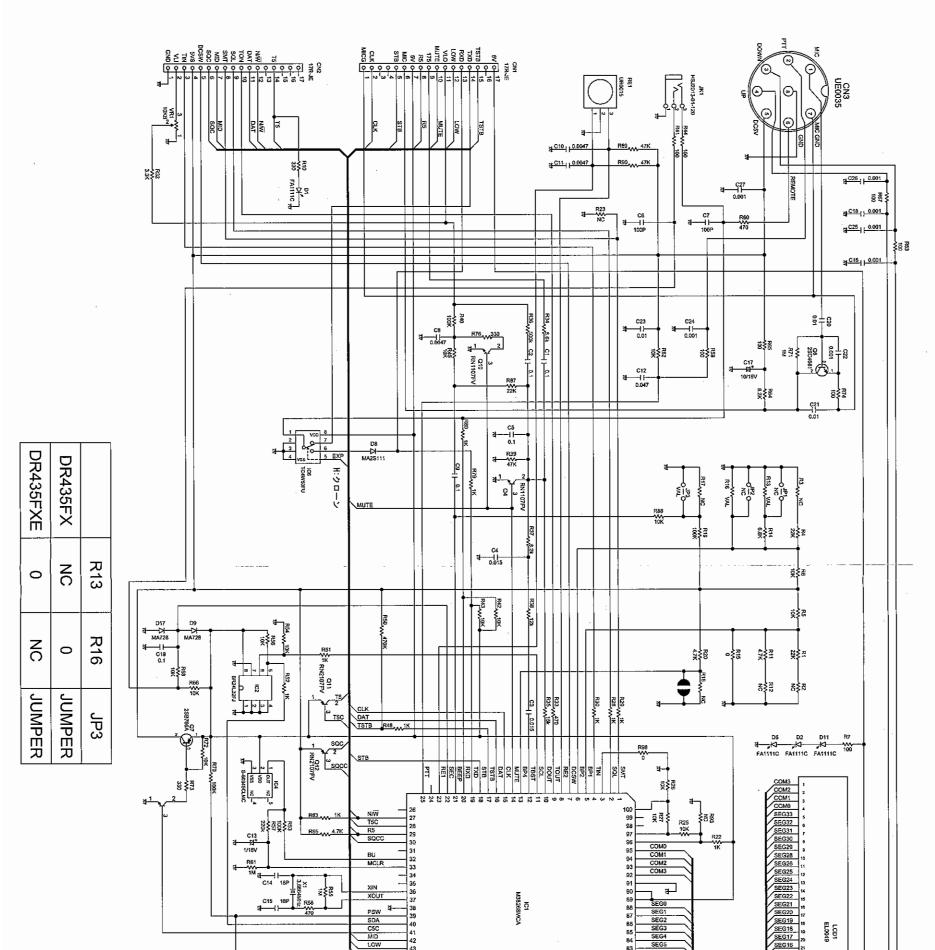


RAM

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SCHEMATIC DIAG

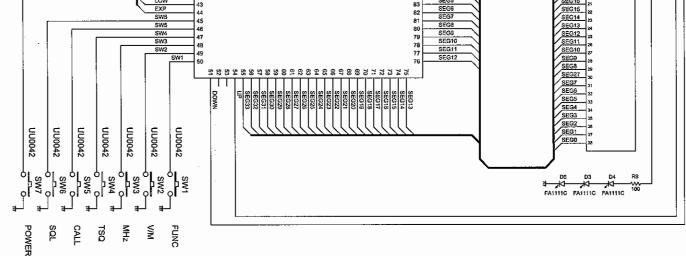
1) CPU Unit DR-135

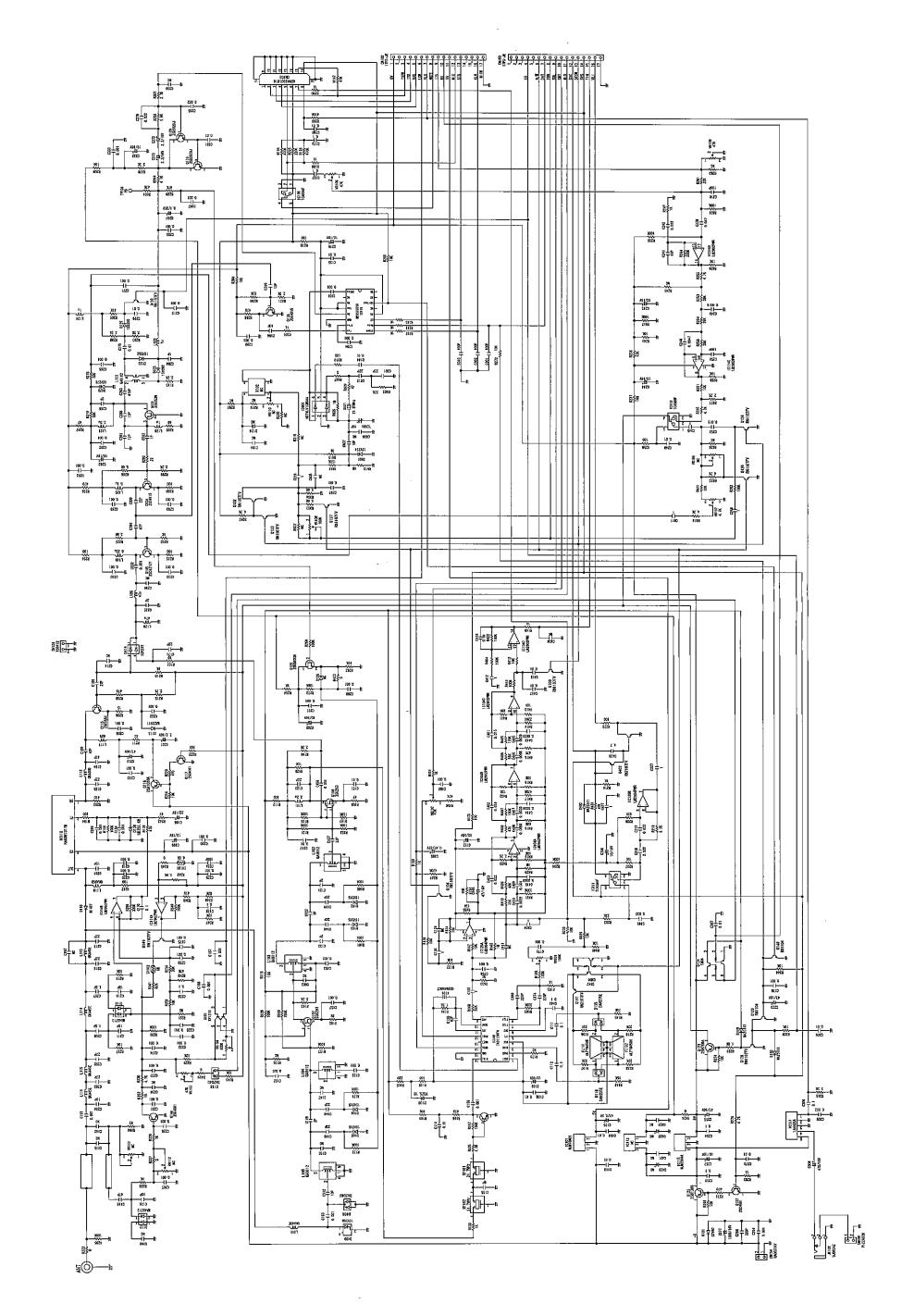


2) CPU Unit DR-435

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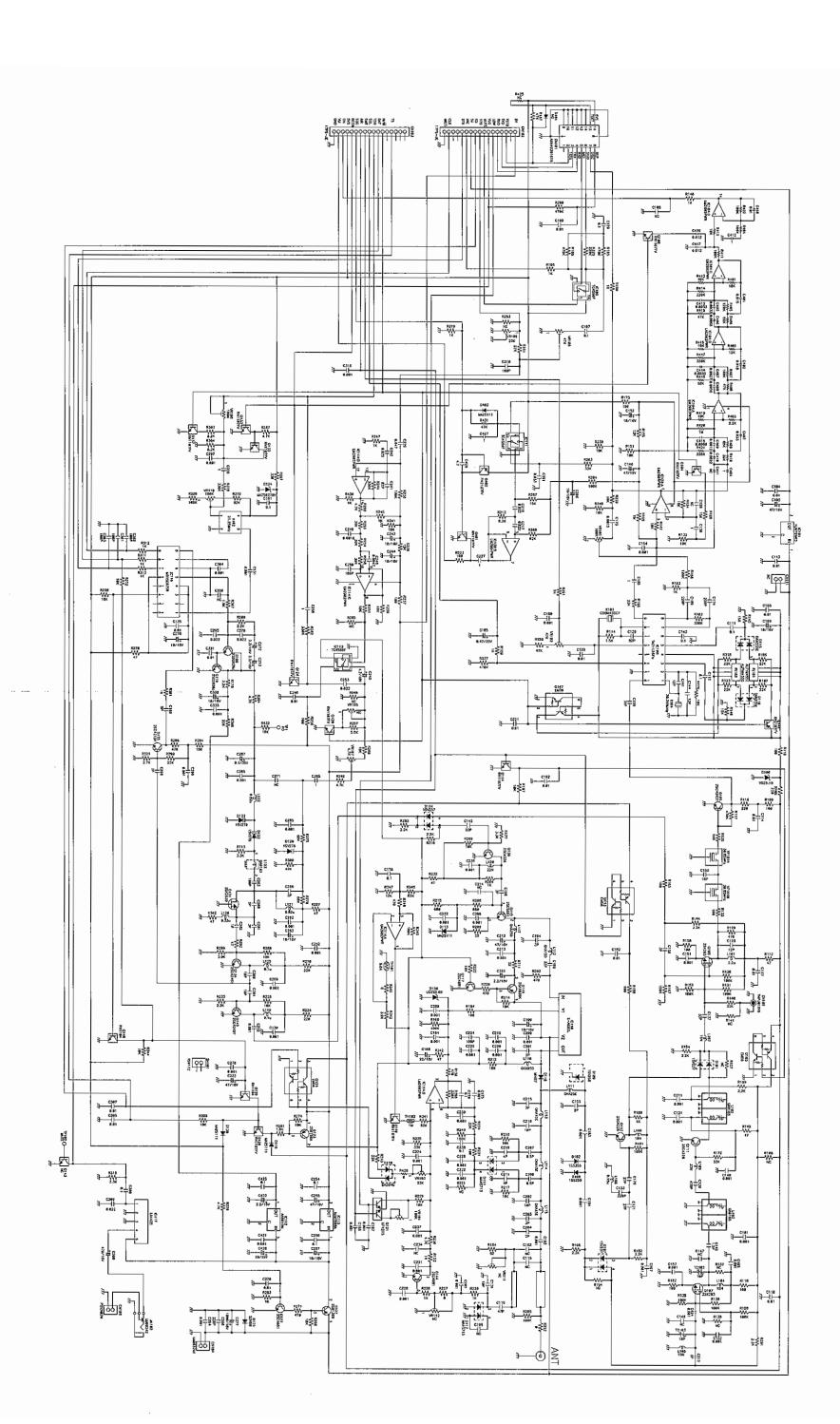


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3) MAIN Unit DR-135









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Dealer/Distributor

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