

RADIOPHONE

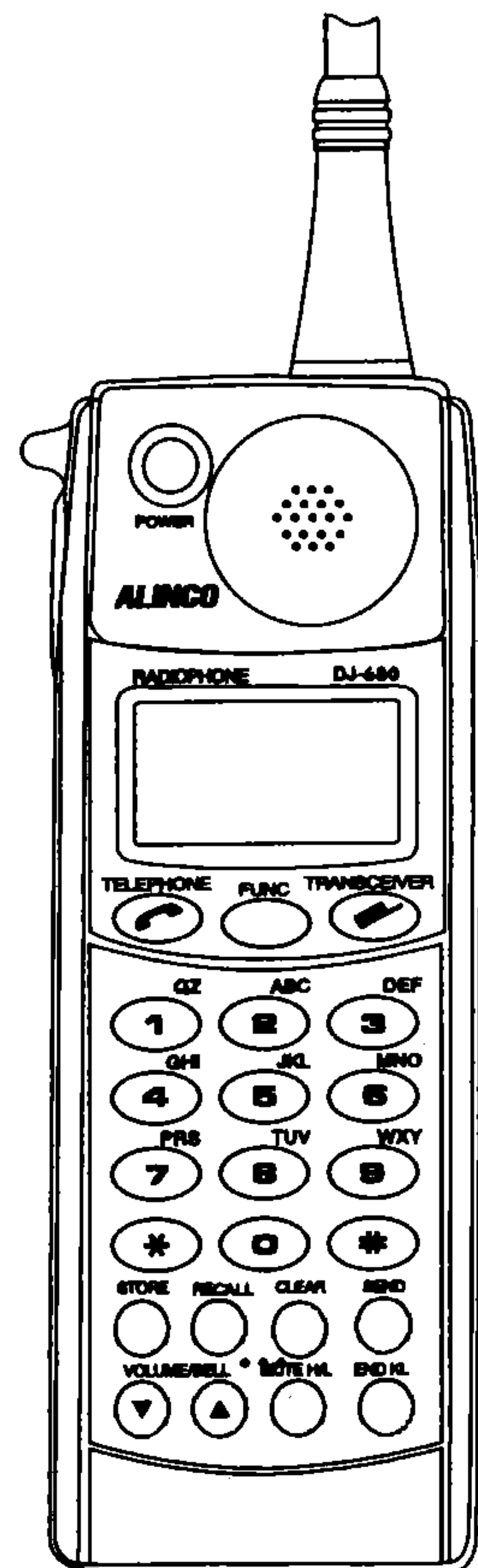
# DJ-680

# SERVICE MANUAL



Radio Mods Manuals

Thank you for buying the ALINCO radiophone. The DJ-680 instruction manual contains important safety and operating instructions. Read this manual carefully before using the product.



### Select a channel

Not programmed channel

Ch. Select  
00 (None) B1

SEND

Programmed channel

Ch. Select  
00 B1

STORE

To change the channel,  
press ▼ or ▲

Bank name

Bank Name B1  
BANK1

Selective calling

Slect Call B1  
Off/On

### Channel menu

Not programmed channel

Freq. B1  
(None) C00

SEND

Programmed channel

Freq. B1  
Tone C00

STORE

▼ or ▲

Set tones

Freq. B4  
Tone C00

STORE

SEND

### Set frequency

Reception frequency

Rx Freq. B1  
000.0000 C00

END KL  
Transmission  
frequency  
(Banks 1, 2, 3)

Tx Freq. B1  
000.0000 C00

Offset (Banks 4, 5)

Offset B4  
-00.000 C00

Tone squelch

Tone Dec. B4  
None/Dec C00

END KL  
Reception tone  
frequency

Rx Tone B4  
67.0 C00

END KL  
Tone encoder

Tone Enc. B4  
Non/Enc C00

END KL  
Transmission tone  
frequency

Tx Tone B4  
67.0 C00

END KL  
Scrambler

Scramble B4  
Non/Scr C00

# FM HANDHELD TRANSCEIVER

# DJ-680

## *Service Manual*

### • SPECIFICATIONS

#### • General

Frequency Range	V-Version	Full Duplex RX450-470MHZ/TX155-174MHZ Simplex RX/TX 155 -174MHz
Number of Channels		20ch x 3 banks (trunked) 10ch x 2 banks (two-way)
Antenna		SMA Screw type
Antenna Impedance		50.0m
Supply Voltage		6V (Ni-Cd) / 7.5V (Dry cell)
Standard Dry Celt Case		AA type x 5 (with a tarminal lor charger)
Frequency Stability		± 3ppm
Current Drain		Transmit; High 1000mA / Low 650mA Receive: Squelched 100mA Battery Life Time (typ.)
Continuous Receive:		11 hours (H00mAH Ni-Cd)
Continuous Transmit:		2 hours (H00mAH Ni-Cd)
Operating Temperature		-20°C- +60°C(+4°F- +140»F)

#### • Transmitter

Output Power	High: 2W Low: 0.5 - 2W (dealer adjustable)
Modulation System	Variable Reactance Frequency Modulation
Max. Frequency Deviation	±5kHz
Spurious Suppressions	-60dB
Harmonic Suppressions	-60dB
Residual Noise	-40dB
Mod. Distortion	Less than 5%

#### • Receiver

Receiving System	Double-conversion Superheterodyne
Sensitivity	0.5mkV at 12dB SINAD
Selectivity	6dB at 10kHz or more-70dB at 25kHz or less
Adjacent Channel Selectivity	65dB at 25kHz
Inter Modulation Response	70dB

Image Response  
Spurious Emission  
More than 50mW

70dB  
2nW Audio Output (80 load)

## ALINCO ELECTRONICS INC.

2-1-61 Shiromi, Chuoku, Osaka 540 Japan Tel: (81) 6 946 8150 Fax: (81) 6 946 8175

### DJ-680 ALIGNMENT PROCEDURES During the alignment,

supply regulated 7.5VDC to DJ-680.

#### 1) Vhf-VCO PD Voltage Adjustment

Bring to 174.00MHz Rx. Measure the VTP point on the RF board with a digital volt-meter. Align L201 to get  $2.0V \pm 0.05V$ .

#### 2) Uhf-VCO PD Voltage Adjustment

Bring to 470.00MHz Rx. Measure the VTP point on the RF board with a digital volt-meter. Align L251 to get  $1.65V \pm 0.05V$ .

#### 3) Tx output power Adjustment

Bring to 165MHz. Connect a power meter at the antenna terminal (note: special adopter needed to connect with the old SMA terminal. The centre hole on top of the radio is a ground for antenna.) Transmit in low power and adjust VR2 to get dealer setting low power output (default 0.55W). Transmit in high power and adjust VR1 to obtain 2W or more.

#### 4) Deviation

On 165MHz, connect a linear detector to the antenna terminal. Apply 1kHz -30dBm (@60-ohm load) signal to CN403 on the CPU board. Transmit in low power then align VR302 to get  $4.3kHz \pm 200Hz$ .

#### 5) Subtone (CTCSS encode level) deviation

On 165MHz, connect a linear detector to the antenna terminal. Encode 88.5Hz in low power Tx then adjust VR301 to get  $0.8kHz \pm 0.1kHz$ .

#### 6) DTMF encode level

On 165MHz, connect a linear detector to the antenna terminal. Press "1" key on the DTMF pad during low power Tx, then adjust VR305 to get  $3.0kHz \pm 0.5kHz$ .

#### 7) Receiver sensitivity

on 165Mhz, apply by a signal generator to the antenna terminal 1kHz 3.5kHz/dev and adjust L9, L10, L11, L12 repeatedly to get @-4dBu (12dB sinad) approx.

**8) Squelch sensitivity**

**On 174MHz apply 1kHz 3.5kHz/dev @-8dBu to the antenna terminal then adjust VR303 to squelch threshold.**

**9) S-meter sensitivity**

**On 174MHz apply 1kHz 3.5kHz/dev @+20dBu to the antenna terminal then adjust VR304 to show just fullscale.**

## DJ680 RF UNIT

<b>Loc.</b>	<b>Parts No.</b>	<b>Description</b>
<b>C1</b>	<b>CU3035</b>	<b>C1608JB1H102KTA</b>
<b>G2</b>	<b>GU3035</b>	<b>C1608JB1H102KTA</b>
<b>C3</b>	<b>GU3010</b>	<b>C1608CH1H090GTA</b>
<b>G4</b>	<b>GU3035</b>	<b>C1608JB1H102KTA</b>
<b>C5</b>	<b>GU3020</b>	<b>C1608CH1H560JTA</b>
<b>C6</b>	<b>CU3015</b>	<b>C1608GH1H220JTA</b>
<b>G7</b>	<b>CU3035</b>	<b>C1608JB1H102KTA</b>
<b>C8</b>	<b>CU3011</b>	<b>C1608CH1H100GTA</b>
<b>C9</b>	<b>CU3007</b>	<b>G1608CH1H060CTA</b>
<b>C10</b>	<b>CS0049</b>	<b>TMGSA1C105MTR</b>
<b>G11</b>	<b>CU3035</b>	<b>C1608JB1H102KTA</b>
<b>G13</b>	<b>CU3017</b>	<b>G1608CH1H330JTA</b>
<b>C14</b>	<b>CU3017</b>	<b>G1608CH1H330JTA</b>
<b>G15</b>	<b>CU3035</b>	<b>G1608JB1H102KTA</b>
<b>G16</b>	<b>CU3088</b>	<b>C1608CH1H200JTA</b>
<b>C17</b>	<b>CS0049</b>	<b>TMCSA1C105MTR</b>
<b>C18</b>	<b>CU3035</b>	<b>G1608JB1H102KTA</b>

C19	CU3035	C1608JB1H102KTA
C20	CU3003	G1608CH1H020CTA
G22	CU3003	C1608CH1H020CTA
C23	CU3009	C1608CH1H080CTA
C24	GU3035	C1608JB1H102KTA
C25	CU3035	G1608JB1H102KTA
C26	GU3003	C1608CH1H020GTA
C27	CU3003	G1608CH1H020CTA
G28	CU3023	C1608GH1H101JTA
G29	CU3035	G1608JB1H102KTA
C31	CS0205	TMCMGOG476MTR
C32	CU3047	C1608JB1H103KTA
C33	CU3023	G1608CH1H101JTA
G34	CS0063	TMCSA1V104MTR
G35	CS0213	THGHA1A225MTR
C36	CU3035	C1608JB1H102KTA
C37	CU3035	C1608JB1H102KTA
C38	CS0049	THGSA1C105MTR
G39	CU3035	C1608JB1H102KTA
C40	CU3023	C1608GH1H101JTA
C41	GU3004	G1608GH1H030CTA
C42	CU3003	C1608GH1H020GTA
C43	CU3035	C1608JB1H102KTA
G45	CS0213	TMCMA1A225MTR

<b>G46</b>	<b>GU3035</b>	<b>C1608JB1H102KTA</b>
<b>C47</b>	<b>CU3047</b>	<b>C1608JB1H103KTA</b>
<b>G48</b>	<b>GS0213</b>	<b>TMCMA1A225MTR</b>
<b>G49</b>	<b>GU3035</b>	<b>G1608JB1H102KTA</b>
<b>C50</b>	<b>GU3035</b>	<b>C1608JB1H102KTA</b>
<b>C51</b>	<b>CU3035</b>	<b>C1608JB1H102KTA</b>
<b>C52</b>	<b>GU3035</b>	<b>C1608JB1H102KTA</b>
<b>C53</b>	<b>CS0209</b>	<b>TMCMBOJ106MTR</b>
<b>C54</b>	<b>GU3035</b>	<b>C1608JB1H102KTA</b>
<b>C55</b>	<b>CU3003</b>	<b>C1608CH1H020CTA</b>
<b>C56</b>	<b>CU3035</b>	<b>C1608JB1H102KTA</b>
<b>C57</b>	<b>CU3016</b>	<b>C1608CH1H270JTA</b>
<b>C58</b>	<b>GU3015</b>	<b>C1608CH1H220JTA</b>
<b>C59</b>	<b>CU3035</b>	<b>C1608JB1H102KTA</b>
<b>C60</b>	<b>CU3035</b>	<b>C1608JB1H102KTA</b>
<b>C61</b>	<b>CU3016</b>	<b>C1608CH1H270JTA</b>
<b>C62</b>	<b>CU3015</b>	<b>C1608CH1H220JTA</b>
<b>C63</b>	<b>CU3013</b>	<b>C1608CH1H150JTA</b>
<b>C64</b>	<b>CU3017</b>	<b>C1608CH1H330JTA</b>
<b>C65</b>	<b>CU3017</b>	<b>C1608CH1H330JTA</b>
<b>C66</b>	<b>CU3011</b>	<b>C1608CH1H100GTA</b>
<b>G67</b>	<b>CU3016</b>	<b>C1608CH1H270JTA</b>

C68	CU3016	C1608GH1H270JTA
C69	CS0213	TMCMA1A225MTR
G70	CU3047	C1608JB1H103KTA
C71	CU3004	C1608CH1H030CTA
C72	CS0213	TMCMA1A225MTR
C73	CS0063	TMCSA1V104MTR
C74	CU3035	C1608JB1H102KTA
C75	CU3035	C1608JB1H102KTA
C76	CU3031	G1608JB1H471KTA
C78	GS0205	TMGMCOG476MTR
G79	CU3031	C1608JB1H471KTA
G80	CU3005	C1608CH1H040GTA
C81	GU3002	C1608CH1H010GTA
C82	CU3031	G1608JB1H471KTA
C83	CU3035	G1608JB1H102KTA
G85	CU3035	G1608JB1H102KTA
C86	CU3005	C1608CH1H040CTA
C87	CU3014	G1608CH1H180JTA
C89	CU3017	C1608CH1H330JTA
C90	CU3099	C1608CH1H2R5CTA
C91	GU3099	G1608CH1H2R5CTA
C92	CU3006	C1608CH1H050GTA
C93	CU025	C1608CH1H151JTA
C94	CU3006	C1608GH1H050GTA



<b>C95</b>	<b>CU3047</b>	<b>C1608JB1H103KTA</b>
<b>G97</b>	<b>GU3007</b>	<b>G1608CH1H060CTA</b>
<b>G98</b>	<b>CU3012</b>	<b>C1608CH1H120JTA</b>
<b>G99</b>	<b>CU3003</b>	<b>C1608CH1H020CTA</b>
<b>0100</b>	<b>CU3007</b>	<b>C1608GH1H060CTA</b>
<b>C101</b>	<b>CU3031</b>	<b>C1608JB1H471KTA</b>
<b>C103</b>	<b>CU3001</b>	<b>C1608CH1HOR5GTA</b>
<b>C104</b>	<b>CU3012</b>	<b>G1608CH1H120JTA</b>
<b>C105</b>	<b>CU3003</b>	<b>C1608CH1H020CTA</b>
<b>C106</b>	<b>CU3047</b>	<b>C1608JB1H103KTA</b>
D1	XD0239	MA142WA TX
D2	XD0066	RLST35 TE 11
D3	XD0272	1SS356 TW11
D4	XD0066	RLS135 TE 11
D5	XD0251	NA741WA TX
D6	XD0272	1SS356 TW11
D7	XD0233	1SV217 TPH4
D8	XD0233	1SV217 TPH4
D9	XD0233	1SV217 TPH4
D10	XD0233	1SV217 TPH4
D11	XD0272	1SS356 TW11
D12	XD0272	1SS356 TW11

D13	XD0272	1SS356 TW11
D14	XD0272	1SS356 TW11
<b>FB1 FB2</b>	<b>QB0039</b> <b>QB0039</b>	<b>EXCELSA24 EXCELSA24</b>
FL1	QA0124	493S-1098
<b>Id</b> <b>102</b>	<b>XA0391</b> <b>XA0352</b>	<b>M68712HR</b> <b>M64076GP</b>
JP1 JP2	RD01Q8 RD0108	JPW01 R-01 JPW01 R-01
<b>L1</b>	<b>QC0427</b>	<b>LL1608-F56NK</b>
<b>L2</b>	<b>QC0292</b>	<b>NL252018T-2R2J</b>
<b>L3</b>	<b>QKA75A</b>	<b>COIL MR1.5 7.5T 0.4</b>
<b>L4</b>	<b>QKA65A</b>	<b>COIL MR1.5 6.5T 0.4</b>
<b>L5</b>	<b>QKA75A</b>	<b>COIL MR1.5 7.5T 0.4</b>
<b>L6</b>	<b>QKA75A</b>	<b>COIL MR1.5 7.5T 0.4</b>
<b>L7</b>	<b>QC0292</b>	<b>NL252018T-2R2J</b>
<b>L8</b>	<b>QC0430</b>	<b>MLF1608DR10KT</b>
<b>L9</b>	<b>QA0071</b>	<b>L QA0071</b>
<b>L10</b>	<b>QA0071</b>	<b>L OA0071</b>
<b>L11</b>	<b>QA0071</b>	<b>L OA0071</b>
<b>L12</b>	<b>QA0071</b>	<b>L OA0071</b>

L13	QC0422	LL1608-F22NK
L14	QC0419	LL1608-F12NK
L16	QKA35A	COIL MR1.5 3.5T 0.4
L17	QKA35A	COIL MR1.5 3.5T 0.4
L18	QKA25A	COIL MR1.5 2.5T 0.4
L20	QKA35A	COIL MR1.5 3.5T 0.4
L21	QKA35A	COIL MR1.5 3.5T 0.4
L22	QKA35A	COIL MR1.5 3.5T 0.4
L23	QC0395	LON1A33NJ04
L24	QC0422	LL1608-F22NK
L25	QG0292	NL252018T-2R2J
Q1	XT0017	2SA1162Y TE85
Q2	XU0062	UN9111 TX
Q3	XU0171	XP1111-Tx
Q4	XU0171	XP1111-TX
Q5	XT0030	2SC3356T1BR24/25
Q6	XT0138	2SC5066-0(TE85L)
Q7	XU0172	XP1501-TX
Q8	XT0138	2SC5066-0(TE85L)
Q9	XU0063	UN9211 TX
Q10	XT0138	2SC5066-0 (TE85L)
Q11	XT0138	2SG5066-0(TE85L)
Q12	XT0138	2SC5066-0(TE85L)

Q13	XT0138	2SC5066-0 (TE85L)
Q14	XT0138	2SC5066-0 (TE85L)
Q15	XT0138	2SC5066-0 (TE85L)
Q16	XT0138	2SC5066-0(TE85L)
Q17	XT0138	2SC5066-0 (TE85L)
<b>R1</b>	<b>RK3046</b>	<b>ERJ3GSYJ472V</b>
<b>R2</b>	<b>RK3046</b>	<b>ERJ3GSYJ472V</b>
<b>R3</b>	<b>RK3020</b>	<b>ERJ3GSYJ330V</b>
<b>R4</b>	<b>RK3030</b>	<b>ERJ36SYJ221V</b>
<b>R5</b>	<b>RK3026</b>	<b>ERJ3GSYJ101V</b>
<b>R7</b>	<b>RK3041</b>	<b>ERJ3GSYJ182V</b>
<b>R8</b>	<b>RK3030</b>	<b>ERJ3GSYJ221V</b>
<b>R9</b>	<b>RK3062</b>	<b>ERJ3GSYJ104V</b>
<b>R10</b>	<b>RK3036</b>	<b>ERJ3GSYJ681V</b>
<b>R66</b>	<b>RK3062</b>	<b>ERJ36SYJ104V</b>
<b>R67</b>	<b>RK3030</b>	<b>ERJ3GSYJ221V</b>
<b>R68</b>	<b>RK3022</b>	<b>ERJ3GSYJ470V</b>
<b>R69</b>	<b>RK3035</b>	<b>ERJ3GSYJ561V</b>
<b>R70</b>	<b>RK3042</b>	<b>ERJ3GSYJ222V</b>
<b>R71</b>	<b>RK3062</b>	<b>ERJ3GSYJ104V</b>
<b>R72</b>	<b>RK3061</b>	<b>ERJ3GSYJ823V</b>
<b>R73</b>	<b>RK3026</b>	<b>ERJ3GSYJ101V</b>

<b>R74</b>	<b>RK3030</b>	<b>ERJ3GSYJ221V</b>	
<b>R75</b>	<b>RK3034</b>	<b>ERJ3GSYJ471V</b>	
<b>R76</b>	<b>RK3033</b>	<b>ERJ3GSYJ391V</b>	
<b>R77</b>	<b>RK3058</b>	<b>ERJ3GSYJ473V</b>	
<b>R78</b>	<b>RK3064</b>	<b>ERJ3GSYJ154V</b>	
<b>R79</b>	<b>RK3036</b>	<b>ERJ3GSYJ681V</b>	
<b>R80</b>	<b>RK3042</b>	<b>ERJ3GSYJ222V</b>	
<b>VR1</b>	<b>RH0142</b>	<b>MVR22HXBRN103</b>	
<b>VR2</b>	<b>RH0146</b>	<b>MVR22HXBRN473</b>	
<b>W1</b>	<b>MRCKH5AA</b>	<b>WIRE</b>	<b>#28R02-055-02</b>
<b>X1</b>	<b>X00078</b>	<b>NTO-796BL</b>	
<b>XF1</b>	<b>XF0019</b>	<b>45.1MHZ UM-1/TE</b>	

**DJ680 CPU UNIT PARTS LIST**

<b>C301</b>	<b>CU3059</b>	<b>C1608JF1E104ZTA</b>
<b>C302</b>	<b>CU3059</b>	<b>C1608JF1E104ZTA</b>
<b>G303</b>	<b>GE0303</b>	<b>ECEVOGA101P</b>
<b>C304</b>	<b>CS0277</b>	<b>EGST1CY105R</b>
<b>G305</b>	<b>CU3035</b>	<b>C1608JB1H102KTA</b>
<b>C306</b>	<b>CU3035</b>	<b>G1608JB1H102KTA</b>
<b>C307</b>	<b>CS0277</b>	<b>ECST1CY105R</b>
<b>C308</b>	<b>CS0372</b>	<b>TMCNB1C106MTR</b>
<b>C309</b>	<b>CS0277</b>	<b>ECST1CY105R</b>
<b>C311</b>	<b>CU3059</b>	<b>C1608JF1E104ZTA</b>
<b>C312</b>	<b>CS0238</b>	<b>ECSTOY475R</b>
<b>C313</b>	<b>GU3023</b>	<b>G1608CH1H101JTA</b>

G314	CS0238	ECSTOGY475R
G315	GU3035	G1608JB1H102KTA
C316	CU3019	G1608CH1H470JTA
G317	CS0277	ECST1CY105R
G318	GU3035	C1608JB1H102KTA
C319	CU3051	G1608JB1E223KTA
G320	GU3051	C1608JB1E223KTA
G321	CS0277	EGST1CY105R
G322	CS0277	ECST1CY105R
C323	CU3051	G1608JB1E223KTA
G324	GU3035	C1608JB1H102KTA
G325	CS0307	ECST1VY104R
C326	CU3019	C1608CH1H470JTA
C327	•CS0277	ECST1GY105R
C328	GU3059	G1608JF1E104ZTA
G329	CU3019	C1608CH1H470JTA
C330	GS0238	ECSTOGY475R
G331	GU3016	G1608GH1H270JTA
C332	CS0232	TMCNA1V474MTR
G333	GS0383	ECST1CV476R
G334	CU3016	G1608CH1H270JTA
C335	CU3027	C1608CH1H221JTA
C336	GU3023	G1608GH1H101JTA
G337	GU3047	C1608JB1H103KTA

C338	CU3059	G1608JF1E104ZTA
G339	CU3043	G1608JB1H472KTA
C340	CS0204	TMCMBOG226MTR
G341	GU3059	C1608JF1E104ZTA
C342	GU3059	G1608JF1E104ZTA
G343	CU3059	C1608JF1E104ZTA
G344	GE0315	ECEV1CA470P
G345	CS0277	ECST1CY105R
G346	CS0277	ECST1CY105R
G347	CU3059	C1608JF1E104ZTA
C348	CU3031	G1608JB1H471KTA
G350	CU3015	C1608CH1H220JTA
C351	CU3015	G1608CH1H220JTA
C354	CS0277	ECST1GY105R
C355	CU3047	C1608JB1H103KTA
C391	CU3020	C1608GH1H560JTA
C356	CU3020	C1608GH1H560JTA
C357	CS0277	•ECST1CY105R
C358	CU3035	G1608JB1H102KTA



C359	CU3035	C1608JB1H102KTA
C360	CU3035	G1608JB1H102KTA
C361	CU3047	C1608JB1H103KTA
C362	CU3035	C1608JB1H102KTA
C363	CS0235	TMCSA1V334MTR
C364	CU3023	C1608CH1H101JTA
C365	CU3059	C1608JF1E104ZTA
C366	CS0256	ECST1AY225R
G367	CS0248	ECSTOJY475R
G368	CU3059	C1608JF1E104ZTA
C369	GU3006	G1608GH1H050CTA
C370	CU3019	C1608CH1H470JTA
G371	CU3047	C1608JB1H103KTA
C372	GU3059	C1608JF1E104ZTA
C373	GU3059	G1608JF1E104ZTA
C374	CU3017	C1608GH1H330JTA
G375	CU3008	C1608CH1H070JTA
C376	CU3059	C1608JF1E104ZTA
C377	GU3047	C1608JB1H103KTA
G378	GU3047	C1608JB1H103KTA
C379	CU3059	C1608JF1E104ZTA
C380	CU3017	C1608CH1H330JTA
C381	CU3047	G1608JB1H103KTA
C382	CS0366	TMCMAOG106MTR

<b>C383</b>	<b>GU3059</b>	<b>C1608JF1E104ZTA</b>
<b>G384</b>	<b>CU3059</b>	<b>G1608JF1E104ZTA</b>
<b>C388</b>	<b>CU3059</b>	<b>C1608JF1E104ZTA</b>
<b>C389</b>	<b>CU3059</b>	<b>C1608JF1E104ZTA</b>
<b>C390</b>	<b>CU3042</b>	<b>G2012JBIC104KT-A</b>
<b>C392</b>	<b>CU3051</b>	<b>G1608JB1E223KTA</b>
<b>G401</b>	<b>CS0307</b>	<b>ECST1VY104R</b>
<b>C402</b>	<b>CU3047</b>	<b>G1608JB1H103KTA</b>
<b>C403</b>	<b>CS0366</b>	<b>TMCMAOG106MTR</b>
<b>C404</b>	<b>CU3035</b>	<b>C1608JB1H102KTA</b>
<b>C405</b>	<b>GU3047</b>	<b>C1608JB1H103KTA</b>
<b>C406</b>	<b>CU3042</b>	<b>C2012JB1C104KT-A</b>
<b>C407</b>	<b>CU3042</b>	<b>C2012JB1C104KT-A</b>
<b>C408</b>	<b>CE0304</b>	<b>4CV 220BS</b>
<b>GN302</b>	<b>UE0143</b>	<b>AXN93030001</b>
<b>GN304</b>	<b>UE0277</b>	<b>IL-FPR-14S-HF</b>
<b>GN306</b>	<b>UE0214</b>	<b>AXN420G530P</b>
<b>CN307</b>	<b>UE0279</b>	<b>52365-0691</b>
<b>GN401</b>	<b>UE0144</b>	<b>TE1208PI28G02</b>

CN402

CN403                    UE0144                    **TE1208P128602**

GN404                    .UE0144                    TE1208PI28G02

D301                    XL0036                    SML-310NTT86

D302                    XL0036                    SML-310MTT86

D303                    XL0036                    SML-310MTT86

D304                    XL0045                    P61101F

D305                    XL0045                    PG1101F

D306                    XL0045                    PG1101F

D307                    XL0036                    SML-310MTT86

D308                    XL0036                    SML-310MTT86

D309                    XL0045                    P61101F

D310                    XL0036                    SML-310MTT86

D311                    XD0239                    MA142WA **TX**D312                    XD0254                    1SS355 **TE17**D313                    XD0254                    1SS355 **TE17**D314                    XD0254                    1SS355 **TE17**D315                    XD0254                    1SS355 **TE17**D316                    XD0254                    1SS355 **TE17**D317                    XD0254                    1SS355 **TE17**

D318	XD0254	1SS355 <b>TE</b> 17	
D319	XD0254	1SS355 <b>TE</b> 17	
D320	XD0254	1SS355 <b>TE</b> 17	
D321	XD0254	1SS355 <b>TE</b> 17	
D324	XD0254	1SS355 <b>TE</b> 17	
D325	XD0254	1SS355 <b>TE</b> 17	
D326	XD0254	1SS355 <b>TE</b> 17	
D327	XD0254	1SS355 <b>TE</b> 17	
D331	XL0036	SML-310MTT86	
D332	XL0036	SML-310MTT86	
D333	XL0036	SML-310MTT86	
D334	XL0036	SML-310MTT86	
FL301	<b>XC</b> 0010	GFUM455F	
1G301	<b>XA</b> 0210	NJM2070M <b>T</b> 1	
IG302	<b>XA</b> 0309	RH5VL25AA-T1	
IG303	<b>XA</b> 0390	<b>M</b> 38257 <b>M</b> 80 <b>TP</b>	
IC304	<b>XA</b> 0310	<b>AK</b> 2342	
IC306	<b>XA</b> 0392	24LC32TSM	
IC307	<b>XA</b> 0216	TK14500MTR	
IG308	<b>XA</b> 0389	GH8880-3S	
<b>C</b> 310	<b>XA</b> 0171	S81235AGRI	<b>T</b> 1

0301	<b>XT0088</b>	2SA1213Y TE12L
0302	XU0030	DTA123YU <b>T106</b>
0303	XU0172	<b>XP1501-TX</b>
0305	XU0029	DTC114YU <b>T106</b>
0306	XU0029	DTC114YU <b>T106</b>
0307	XU0029	DTC114YU <b>T106</b>
0308	XU0029	DTC114YU <b>T106</b>
0309	XU0029	DTC114YU <b>T106</b>
0310	XU0030	DTA123YU <b>T106</b>
0311	XU0029	DTC114YU <b>T106</b>
0312	<b>XT0105</b>	2SC4213A-TE85L
0313	XU0029	DTC114YU <b>T106</b>
0314	XU0031	DTB143EK <b>T106</b>
0315	XU0029	DTC114YU <b>T106</b>
0316	<b>XT0105</b>	2SC4213A-TE85L
0317	<b>XE0029</b>	2SK1580-T1
0318	<b>XE0029</b>	2SK1580-T1
0320	XU0021	FMC3 <b>T98</b>
Q327	XU0029	DTG114YU <b>T106</b>
Q328	XU0029	DTC114YU <b>T106</b>
Q329	XU0029	DTC114YU <b>T106</b>
Q330	<b>XE0029</b>	2SK1580-T1
Q331	<b>XE0029</b>	2SK1580-T1

Q332	<b>XE0029</b>	2SK1580-T1
Q333	XU0029	DTC114YU <b>T106</b>
Q334	<b>XT0095</b>	2SC4081 T106R
Q335	XU0029	DTC114YU <b>T106</b>
Q336	<b>XE0029</b>	2SK1580-T1
Q337	<b>XE0029</b>	2SK1580-T1
Q338	XU0029	DTC114YU <b>T106</b>
Q339	XU0029	DTC114YU <b>T106</b>
<b>R301</b>	<b>RK3001</b>	<b>ERJ3GSYOROOV</b>
<b>R302</b>	<b>RK3038</b>	<b>ERJ3GSYJ102V</b>
<b>R303</b>	<b>RK3058</b>	<b>ERJ3GSYJ473V</b>
<b>R304</b>	<b>RK3058</b>	<b>ERJ3GSYJ473V</b>
<b>R305</b>	<b>RK3028</b>	<b>ERJ3GSYJ151V</b>
<b>R306</b>	<b>RK3028</b>	<b>ERJ3GSYJ151V</b>
<b>R307</b>	<b>RK3028</b>	<b>ERJ3GSYJ151V</b>
<b>R308</b>	<b>RK3028</b>	<b>ERJ3GSYJ151V</b>
<b>R309</b>	<b>RK3028</b>	<b>ERJ3GSYJ151V</b>
<b>R310</b>		
<b>R311</b>	<b>RK3055</b>	<b>ERJ3GSYJ273V</b>
<b>R312</b>	<b>RK3041</b>	<b>ERJ3GSYJ182V</b>

R313	RK3058	ERJ3GSYJ473V
R314	RK3042	ERJ3GSYJ222V
R315	RK3062	ERJ3GSYJ104V
R316	RK3056	ERJ3GSYJ333V
R317	RK3054	ERJ3GSYJ223V
R318	RK3038	ERJ3GSYJ102V
R319	RK3062	ERJ3GSYJ104V
R320	RK3054	ERJ3GSYJ223V
R321	RK3054	ERJ3GSYJ223V
R322	RK3038	ERJ3GSYJ102V
R323	RK3064	ERJ3GSYJ154V
R324	RK3042	ERJ3GSYJ222V
R325	RK3042	ERJ3GSYJ222V
R326	RK3038	ERJ3GSYJ102V
R327	RK3038	ERJ3GSYJ102V
R328	RK3068	ERJ3GSYJ334V
R329	RK3038	ERJ3GSYJ102V
R330	RK3050	ERJ3GSYJ103V

R331	RK3038	ERJ3GSYJ102V
R332	RK3052	ERJ3GSYJ153V
R333	RK3068	ERJ3GSYJ334V
R334	RK3038	ERJ3GSYJ102V
R335	RK3062	ERJ3GSYJ104V
R336		
R337	RK3038	ERJ3GSYJ102V
R338	RK3050	ERJ3GSYJ103V
R339	RK3058	ERJ3GSYJ473V
R340	RK3045	ERJ3GSYJ392V
R341	RK3058	ERJ3GSYJ473V
R342	RK3032	ERJ3GSYJ331V
R343	RK3047	ERJ3GSYJ562V
R344	RK3059	ERJ3GSYJ563V
R345	RK3058	ERJ3GSYJ473V
R346	RK3074	ERJ3GSYJ105V
R347	RK3050	ERJ3GSYJ103V
R348	RK3059	ERJ3GSYJ563V
R349	RK3067	ERJ3GSYJ274V
R350	RK3026	ERJ3GSYJ101V
R351	RK3014	ERJ3GSYJ100V
R352	RK3053	ERJ3GSYJ183V
R353	RK3056	ERJ3GSYJ333V



R354	RK3062	ERJ3GSYJ104V
R355	RK3068	ERJ3GSYJ334V
R356	RK3058	ERJ3GSYJ473V
R357	RK3046	ERJ3GSYJ472V
R358	RK3054	ERJ3GSYJ223V
R359	RK3050	ERJ3GSYJ103V
R360	RK3064	ERJ3GSYJ154V
R361	RK3050	ERJ3GSYJ103V
R362	RK3074	ERJ3GSYJ105V
R363	RK3001	ERJ3GSYOROOV
R364	RK3038	ERJ3GSYJ102V
R365	RK3038	ERJ3GSYJ102V
R366	RK3038	ERJ3GSYJ102V
R367	RK3038	ERJ36SYJ102V
R368	RK3038	ERJ3GSYJ102V
R369	RK3052	ERJ3GSYJ153V
R370	RK3062	ERJ3GSYJ104V
R371	RK3066	ERJ3GSYJ224V
R372	RK3058	ERJ3GSYJ473V

R373	RK3062	ERJ3GSYJ104V
R374	RK3018	ERJ3GSYJ220V
R375	RK3070	ERJ3GSYJ474V
R376	RK3038	ERJ3GSYJ102V
R378	RK3056	ERJ3GSYJ333V
R379	RK3056	ERJ3GSYJ333V
R380	RK3038	ERJ3GSYJ102V
R381	RK3038	ERJ3GSYJ102V
R382	RK3064	ERJ3GSYJ154V
R383	RK3038	ERJ3GSYJ102V
R384	RK3038	ERJ3GSYJ102V
R385	RK3001	ERJ3GSYOROOV
R386	RK3042	ERJ3GSYJ222V
R388	RK3050	ERJ3GSYJ103V
R389	RK3058	ERJ3GSYJ473V
R390	RK3062	ERJ3GSYJ104V
R392	RK3038	ERJ3GSYJ102V
R393	RK3038	ERJ3GSYJ102V
R394	RK3038	ERJ3GSYJ102V
R395	RK3062	ERJ3GSYJ104V
R396	RK3053	ERJ3GSYJ183V
R397	RK3042	ERJ3GSYJ222V
R398	RK3069	ERJ3GSYJ394V
R400	RK3054	ERJ3GSYJ223V

R401	RK3044	ERJ3GSYJ332V
R402	RK3044	ERJ3GSYJ332V
R403	RK3044	ERJ3GSYJ332V
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R421	RK3044	ERJ3GSYJ332V

R422	RK3050	ERJ3GSYJ103V
R423	RK3056	ERJ3GSYJ333V
R424	RK3058	ERJ3GSYJ473V
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R426	RK3018	ERJ3GSYJ220V
R430	RK3050	ERJ3GSYJ103V
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R432	RK3041	ERJ3GSYJ182V
R433	RK3041	ERJ3GSYJ182V
R434	RK3062	ERJ3GSYJ104V
R435	RK3062	ERJ3GSYJ104V
R436	RK3050	ERJ3GSYJ103V
R437	RK3046	ERJ3GSYJ472V
R438	RK3030	ERJ3GSYJ221V
R439	RK3032	ERJ3GSYJ331V
R440	RK3057	ERJ3GSYJ393V
R441	RK3063	ERJ3GSYJ124V
R442	RK3046	ERJ3GSYJ472V
R443	RK3046	ERJ3GSYJ472V
R444	RK3058	ERJ3GSYJ473V
R445	RK3001	ERJ3GSYOROOV
R446	RK3061	ERJ3GSYJ823V
R447	RK3050	ERJ3GSYJ103V
R448	RK3001	ERJ3GSYOROOV

<b>R449</b>	<b>RK3034</b>	<b>ERJ3GSYJ471V</b>
<b>R450</b>	<b>RK3062</b>	<b>ERJ3GSYJ104V</b>
<b>R451</b>	<b>RK3062</b>	<b>ERJ3GSYJ104V</b>
<b>R452</b>	<b>RK3001</b>	<b>ERJ3GSYOROOV</b>
<b>R455</b>	<b>RK3046</b>	<b>ERJ3GSYJ472V</b>
<b>R456</b>	<b>RK3028</b>	<b>ERJ3GSYJ151V</b>
<b>R457</b>	<b>RK3028</b>	<b>ERJ3GSYJ151V</b>
<b>R459</b>	<b>RK1107</b>	<b>ERJ8GEYOROOV</b>
<b>R461</b>	<b>RKn07</b>	<b>ERJ8GEYOROOV</b>
<b>R462</b>	<b>RK3047</b>	<b>ERJ3GSYJ562V</b>
<b>SW302</b>	<b>UU0009</b>	<b>EVQ QEK 04K</b>
<b>VR301</b>	<b>RH0146</b>	<b>MVR22HXBRN473</b>
<b>VR302</b>	<b>RH0146</b>	<b>MVR22HXBRN473</b>
<b>VR303</b>	<b>RH0142</b>	<b>MVR22HXBRN103</b>
<b>VR304</b>	<b>RH0146</b>	<b>MVR22HXBRN473</b>
<b>VR305</b>	<b>RH0142</b>	<b>MVR22HXBRN103</b>

<b>X301</b>	<b>XB0007</b>	CSAC2.OOMGC-TC	
<b>X302</b>	<b>X00057</b>	DSMAT3.6864MH	Z
<b>X303</b>	XQ0069	UM5 45.555MHZ	
<b>X304</b>	<b>XK0002</b>	CDBM455C7	
<b>X402</b>	XQ0045	DSMAT3.58MHZ18P	
LD301	EL0032	LCD XH623	
	UP0297	XH623 SET PCB	
UNIT	<b>XX0005</b>	L S2 ST865AL	
	ST0055	LCD FRANE	
	DG0024	LCD'LGHIT	

**DJ680 VVCO UNIT PARTS LIST**

<b>C201</b>	CU3-031	C1608JB1H471KTA
<b>C202</b>	CU3001	G1608GH1HOR5CTA
<b>C203</b>	<b>сизою</b>	C1608GH1H090GTA
G204	CU3011	C1608GH1H100GTA
<b>C205</b>	GU3031	G1608JB1H471KTA
<b>C206</b>	GU3035	C1608JB1H102KTA
<b>C207</b>	CU3035	C1608JB1H102KTA
<b>C208</b>	CU3004	C1608GH1H030GTA
<b>C209</b>	CU3022	C1608GH1H820JTA
<b>C210</b>	CU3035	C1608JB1H102KTA
CN201	UE0216	9230B-1-06Z054T
D201	XD0293	1SV257(TPH4)

D202	XD0298	1SV273TPH
D203	XD0241	MA77 TX
D204	XD0298	1SV273TPH
L201	<b>OA</b> 0123	VGO <b>OA</b> 0123 5GBN
L202	<b>OKA</b> 55A	COIL MR1.5 5.5T 0.4
Q201	<b>XT</b> 0137	2SC5065-0(TE85L)
Q202	<b>XT</b> 0138	2SG5066-0(TE85L)
R201	RK3062	ERJ3GSYJ104V
R202	RK3050	ERJ3GSYJ103V
R203	RK3050	ERJ3GSYJ103V
R204	RK3030	ERJ3GSYJ221V
R205	RK3050	ERJ3GSYJ103V
R206	RK3061	ERJ3GSYJ823V
R207	RK3048	ERJ3GSYJ682V
R208	RK3037	ERJ3GSYJ821V
R209	RK3042	ERJ3GSYJ222V
	TS0115	VGO CASE



G251	CU3031	C1608JB1H471KTA
G252	CU3010	<b>C1608CH1H090CTA</b>
G253	CU3011	<b>C1608CH1H100CTA</b>
<b>C254</b>	CU3010	C1608CH1H090GTA
<b>C255</b>	CU3004	<b>C1608CH1H030CTA</b>
G256	CU3005	<b>C1608CH1H040CTA</b>
CN251	UE0278	'9230B-1-04Z054T

D251	XD0293	•1SV257(TPH4)
D252	XD0293	'1SV257(TPH4)

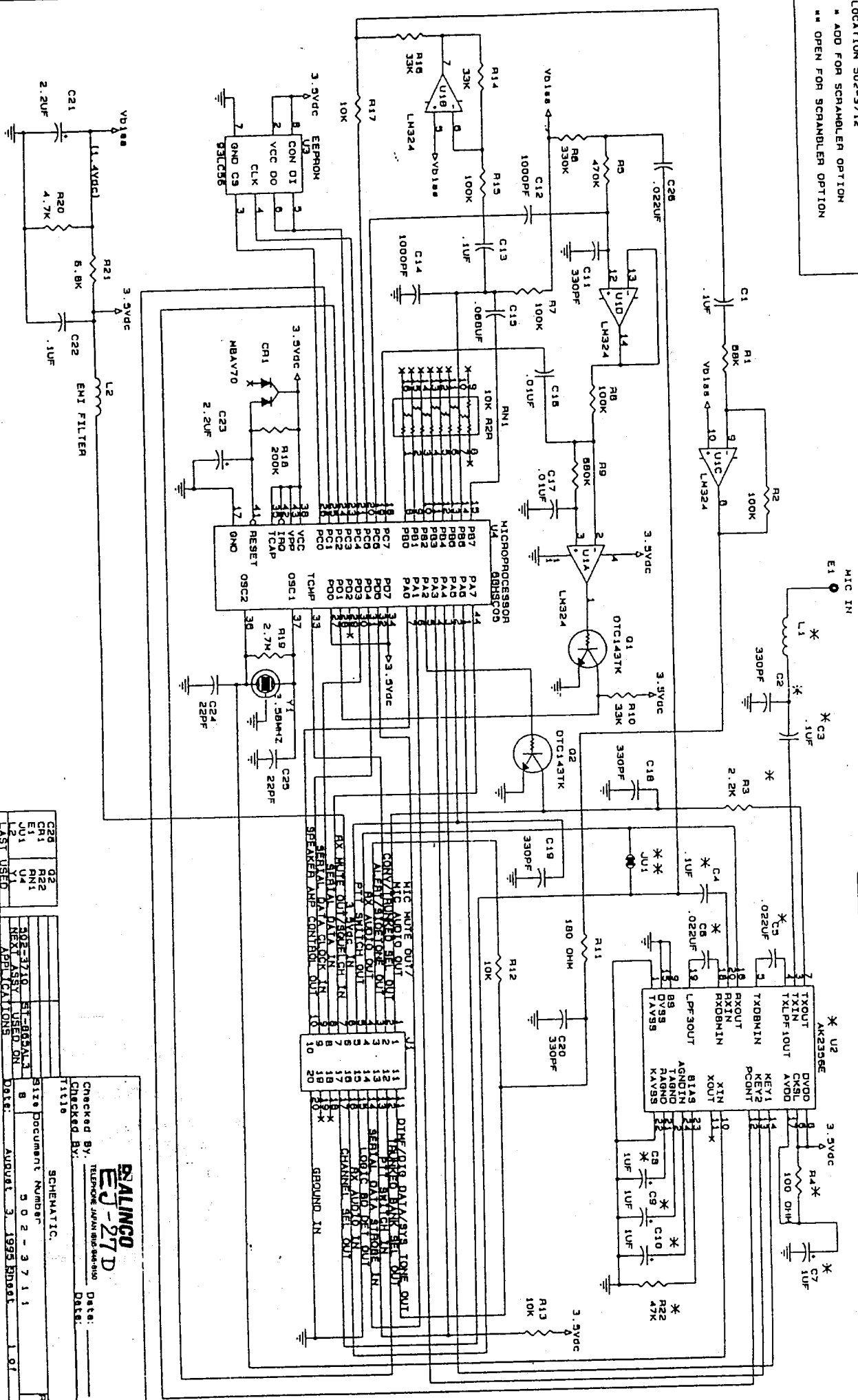
L251	<b>OKA25A</b>	COIL MR1.5 2.5T 0.4
------	---------------	---------------------

Q251	<b>XT0137</b>	'2SC5065-0(TE85D)
Q252	<b>XT0138</b>	'2SC5066-0(TE85D)

R251	RK3050	ERJ3GSYJ103V
R252	RK3030	ERJ3GSYJ221V
R253	RK3061	ERJ3GSYJ823V
R254	RK3050	ERJ3GSYJ103V
R255	RK3042	ERJ3GSYJ222V
R256	RK3037	ERJ3GSYJ821V

	TS0115	VCO CASE
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- NOTES:  
 1. THIS SCHEMATIC TO BE USED IN CONJUNCTION WITH COMP. INT. LOCATION 502-5712  
 2. \* ADD FOR SCRAMBLER OPTION  
 3. \*\* OPEN FOR SCRAMBLER OPTION

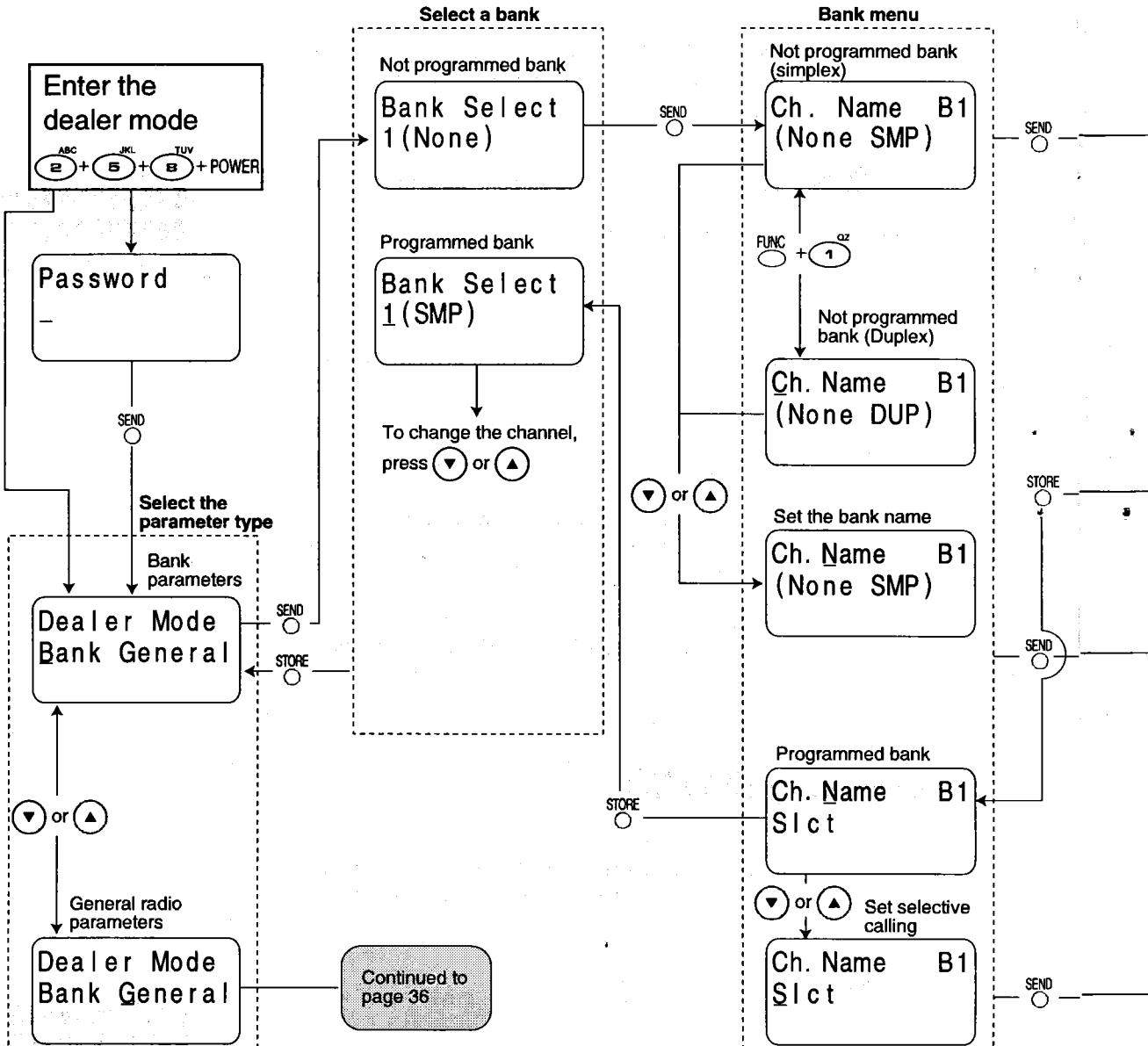


REV	DATE	ENG	OCG
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Q20	C20	Q22
E11	R22	R22
L2	U1	U1
Y1	Y1	Y1
LAST USED		

Checked By: **BALINGO**  
 TELEPHONE JAPAN 910-9150  
**EJ-27D**  
 DATE: \_\_\_\_\_  
 Size Document Number: 502-3711  
 SCHEMATIC.  
 AUGUST 3, 1995 1.07

# Appendix Quick Reference



# Appendix Quick Reference

