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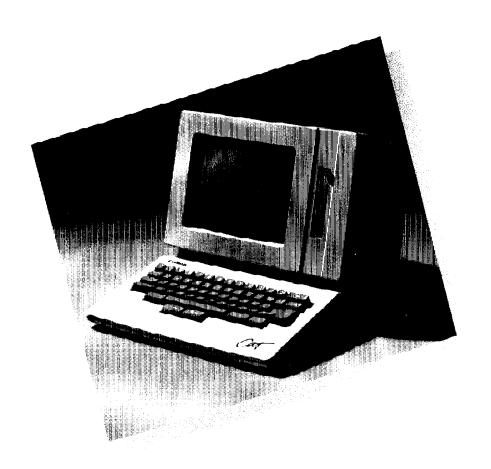
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WORKSHOP MANUAL

Canon

JULY 1987

NY8-1360-000

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CHAPTER 1

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1. GENERAL

1-1. Specifications

SYSTEM CONFIGURATION

Standard Configuration: CRT + Keyboard + Micro FDD

Memory: 256K

Floppy Disk: 3.5" single-sided, double-density, double-track

Disk Capacity: 240K (text: 180K, about 80 pages)

DISPLAY

Screen Size and Type: 9" CRT Color: Black-on-white

Format and Capacity: 24 lines by 80 characters (344 by 640 dot)

Underline Display: Standard Centering Display: Standard

Cursor Position: LEAP, CREEP, SCROLL UP/DOWN

KEYBOARD

Number of Keys: 59 (U.S.A) to 61 Entry System: N-key rollover

Keytop. Concave, step sculpture

GENERAL FEATURES

Line Spacing: 1, 1-1/2, 2

FUNCTIONS

Cursor Movement Typing and Erasing

Leap Forward
Leap Backward
Leap Again
Local/Global Leap
Leap-Erase

Automatic Page Break
Keyboard I and II
Shift Lock
Erase Forward
Erase Backward

Creep Forward

Creep Backward Decimal Tab

Screen Scroll-Leap Centering. margins, tabs
Automatic Reformatting

Block Move Block Copy Block Erase Document Lock

Indent

Editing

SOFTWARE FORTH

POWER SUPPLY 100, 120, 230V 50/60Hz

OPERATION ENVIRONMENT

Temperature: 10°C to 35°C (50°F to 95°F)

Humidity: 20% to 80%

DIMENTIONS In millimeters: $342(W) \times 264(H) \times 510(D)$

In inches: $13.5(W) \times 10.4(H) \times 20.1(D)$

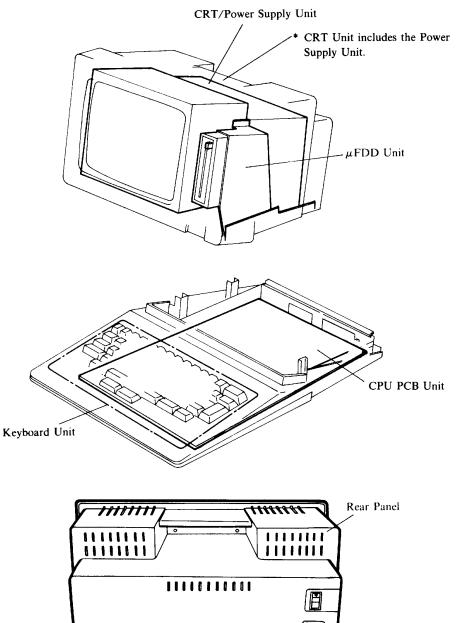
WEIGHT 9.2 Kg (20.3 1bs)

Subject to change without notice.

1-1

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1-2. Overview



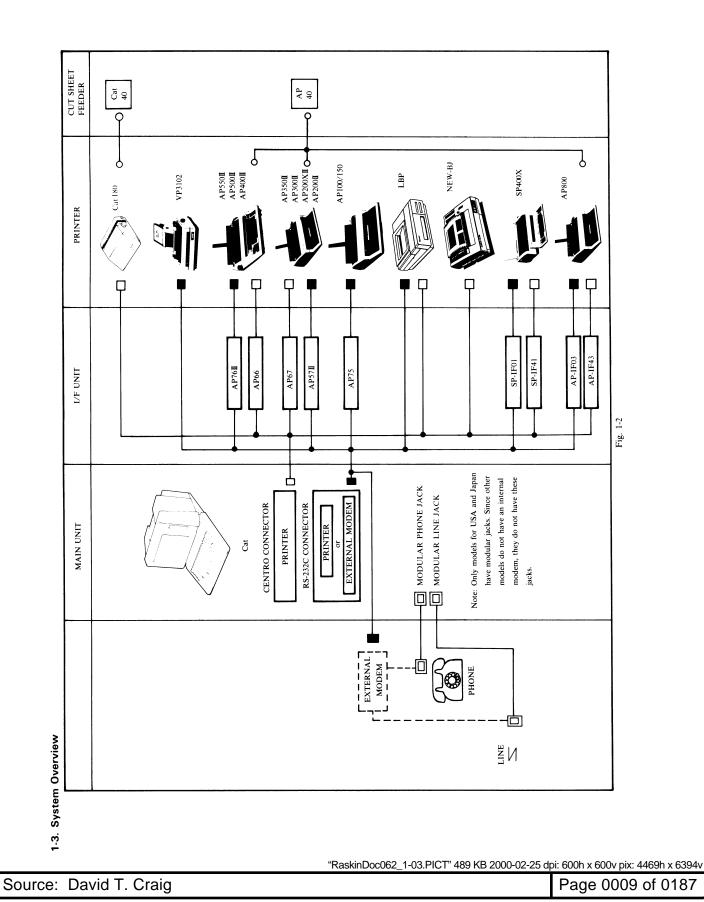
SW2
Self Diagnosis
CENTRO
Connector
For Printer or External MODEM
Fig. 1-1

1-2

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Jef Raskin Document # 062 -- Canon Cat Computer Repair Manual DRIVER لعففا RxD4 TxD4 MODEM C38 FILTER SH4 TRANS-MITTER S BUFFER IC40 DTMF TONE 401 ₩.S. CENTRO/RS232C IC30 GATE ARRAY#1 1-3 SH3 Eig. SYSTEM & VIDEO RAM VIDEO RAM 28KB SYSTEM RAM 228KB (1256KB) OPTION RAM (128 KBYTE) (ISBKB) ICB 2A- BOW GATE ARRAY#1/ GATE ARRAY#2/ SYSTEM & VIDEO MEMORY IC2 (IS8KB) IC2 SASTEM SH2 ICS (ISBKB) CPU/ROM/RAM CIRCUIT ICI CPU MC68000 1-4. Block Diagram SH1

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Block	LSI Name			Fun	ction	
CPU/ROM/ RAM	CPU MC68000	16 bit microprocessor CPU Clock: 5 MHz Address bus: A1 ~ A23 (A19 and A20 not used) Data bus: D0 ~ D15 The CPU controls the entire system. It responds to the following two interrupts: 1. NMI: CPU operation is monitored by gate array #2. If the CPU operates abnormally, gate array #2 resets the entire system. 2. IPLO: Inputs IRQ from DUART. (For more information, see the DUART item.) If a key input is not received within a certain time, the CPU saves the contents of the system RAM to disk and turns off the screen. (When a key is pressed, the screen is turned on and text is displayed.)				
	System ROM	The contents of the system ROM (256 KBYTES) are shown below. 1. System Program 2. Self Diagnosis Program 3. Keyboard code table/CG				
	SV-ROM	The SV-ROM is provided for the spelling check. When the spelling check is performed, it functions as a dictionary. (The SV-ROM is not available for some countries.) The names of the dictionaries used and the availability of the SV-ROM is shown below. 1. ROM O: Yes				
		PARTS NO.	IC6	IC7	IC8	COUNTRY
		NH7-0684	0	_		USA, JAPAN
		NH7-0724	0	_		U.K., OCEANIA
		NH7-0813				QUEBEC, FRANCE
:		NH7-1019 NH7-1020 NH7-1021	0 _ _	0	_ _ 0	W. GERMANY
		2. Dictionary name				
		DICTIONARY COUNTRY				
		American Heritage American Heritage (British) Librairie Larousse Langenscheidt COUNTRY USA, JAPAN U.K., OCEANIA QUEBEC, FRANCE W. GERMANY				

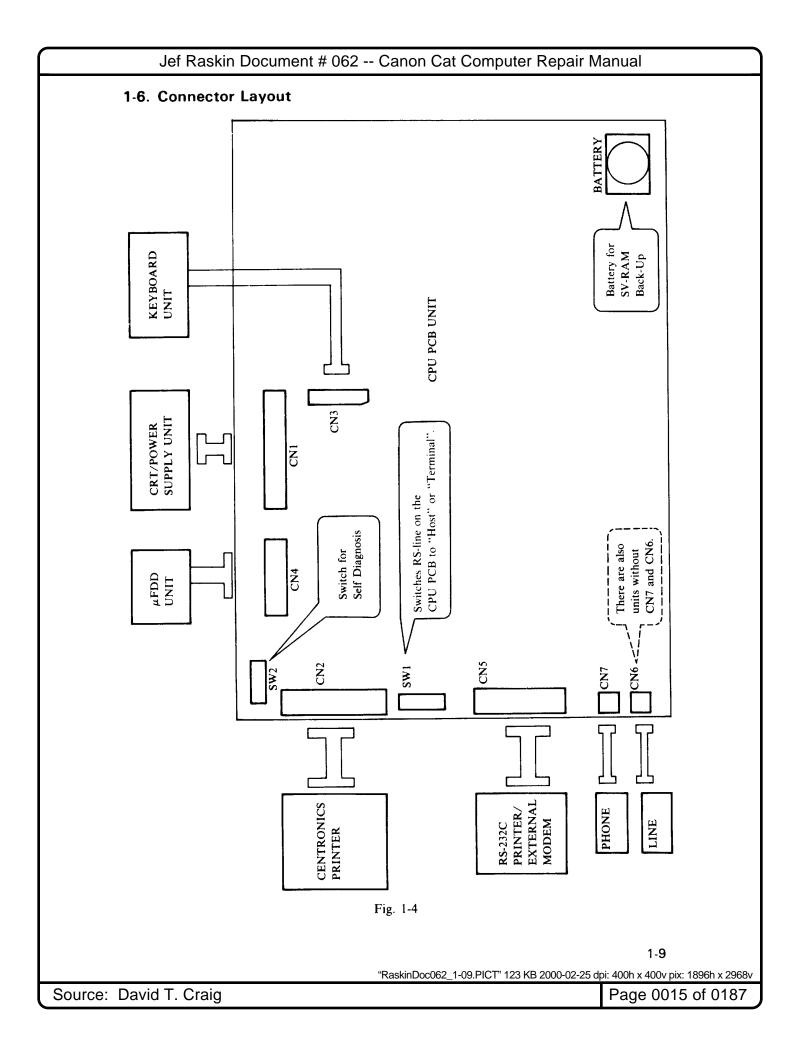
1-5

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Block	LSI Name	Function
CPU/ROM/ RAM	SV-RAM	The SV-RAM (8 KBytes) is used to store a personal dictionary and the setup screen information. This personal dictionary and setup screen information are backed-up by a lithium battery.
		Personal dictionary: Dictionary registered by the user. It is used in the spelling check. Setup screen: Includes the setup data for the printer, modem, and other devices.
	Memory Protect Circuit	This circuit protects the contents of the SV-RAM when the power is turned on and off and when the +5V supply is unstable.
Gate Array #1 & #2/RAM	System & Video RAM	The system & video RAM consists of eight 4-bit D-RAMs. (256 KBytes standard) An optional RAM (128 KBytes) can be added. These RAMs are for video and system use.
		 Video RAM: Stores the CG-pattern for CRT display. System RAM: Used to store the user Text, or for system operation.
	Gate Array #1	 Gate Array #1 has the following functions: CPU clock generator Divides a clock signal of approximately 20 MHz by four and outputs a 5 MHz CPU clock signal. CRT sync signal generation HSYNC and VSYNC output. Memory control signal generation Outputs the memory address, RAS, CAS, and WE signals and controls the system & video RAM. Also shows if the data output from memory is video data or CPU data. Outputs the CS V/C signal to Gate Array #2.

Block	LSI Name	Function
Gate Array #1 & #2/RAM	Gate Array #2	 Gate Array #2 has the following functions: Decoder Outputs the I/O LSI and memory IC decode signals. Video signal generation The CS V/C signal multiplexes the read data from memory with the CPU data and video data. The video data is then converted by the LDPS signal from parallel to serial data and output to the CRT unit. Relay control signal The relays at the NCU are controlled as follows: After a telephone ring is detected, the telephone line is connected to the main unit circuit by the OFF HOOK signal. (The line and telephone are still connected.) Next, the telephone and telephone line are disconnected by the Phone signal. (Only the telephone line is connected.) Reset signal delay control RESIN signal is output after a delay of 0.7 ms.
CENTRO & RS-232C	Gate Array #3	Gate Array #3 has the following functions: 1. CENTRONICS printer interface 2. Keyboard interface (1) The CPU stores key data by scanning the keyboard at 6.5 ms intervals. The DUART produces the key scan interval time. (2) CC: Check code strobe After the power switch is turned on, the signal level is lowered and the status of bit D7 is checked. If it is on, self diagnosis is performed. 3. Low Battery Detector The Reset IC monitors the lithium battery, and when low BAT = high, a battery mark is displayed on the ruler line. 4. FDD Controller (1) Outputs the signal which drives the FDD and reads the FDD status. (2) Separates the read data from the FDD into clock bits and data bits. Note: The CPU controls data transfer between the FDD and system RAM. At this time, the CPU inhibits all interruptions.

Block	LSI Name	Function		
CENTRO & RS-232C	DUART	 The DUART has the following functions: The DUART has two ports. One port is for the internal modem and the other port is for the external modem or printer. (External modem or printer is selected by setup screen.) Buzzer control The DUART outputs IRQ to the CPU under the following two conditions: When the CPU key-scan timing signal is generated by the internal counter of Gate Array #2. TOBF is output to DUART every 6.5 ms. and DUART outputs IRQ to the CPU. When a telephone ring is automatically detected by the main unit 		
Modem & NCU	Modem Chip	This IC is a single chip modem which complies with Bell 212A and CCITT V.22 standards. It has a 1200bps PSK modem and fall back mode 300bps FSL modem functions.		
	Modem Filter	The filter specifications conform to the Bell 212A and CCITT V.22 standards.		
	DTMF Tone Generator	This LSI outputs a dial tone to the telephone line without the use of a telephone set when automatic dialing is performed.		
	the U.S.A, ASIA with internal spe	These LSIs and circuits are installed in models with internal modems. Only the U.S.A, ASIA, QUEBEC, OCEANIA, and JAPAN have modem models with internal specifications. External modem specifications apply to other countries.		



CHAPTER 2

THEORY

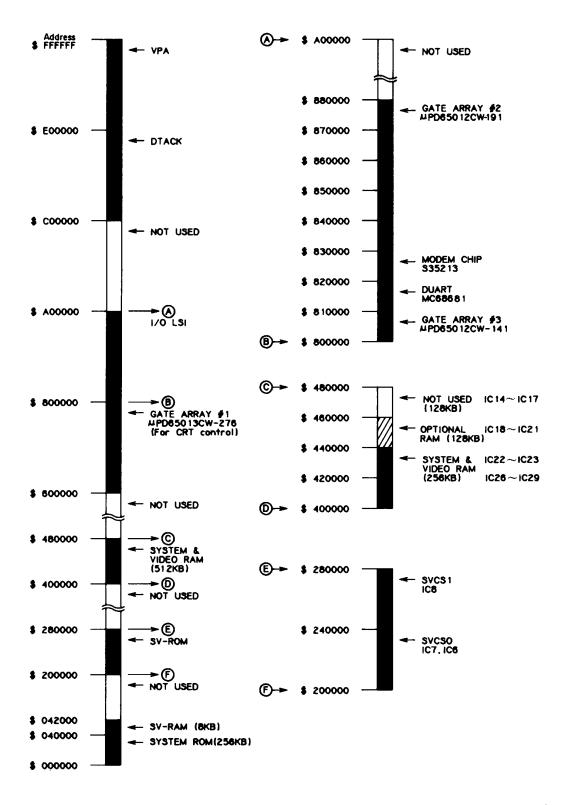
100			Page			Page
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2-2.	Initial Flowche	rt	2-2			

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2. THEORY

2-1. Memory Map



2-1

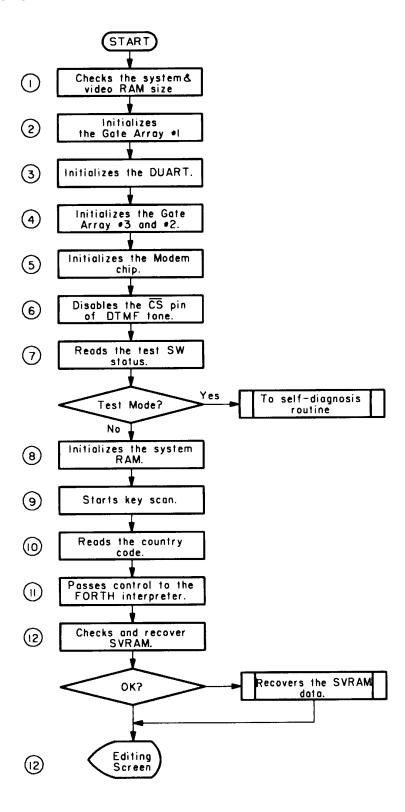
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2-2. Initial Flowchart

1. Flowchart



2-2

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2-2. Initial Flowchart

2. Flowchart Description

- ① There are 512K bytes of space allocated for the System & Video RAM. However, this machine only uses a maximum of 384K bytes for the System & Video RAM. An R/W check is done for every 128 K bytes of this area, and the RAM size is checked.

 (Only addresses \$ 400000, \$ 420000, \$ 440000, and \$ 460000 are checked.)
- 2 Gate Array #1 has a register for control of the CRT. Initialize the screen size, H and V SYNC signals, and screen off registers.
- 3 DUART has two kinds of registers for control of two RS-port. Initializes these registers.
- ④ Gate Array #3 has one register for control of the drive R/W and one keyboard key strobe register.
 Initializes these registers.
 - Gate Array #2 has registers for control of the timer, video signals and etc.
 Turns off Output Enable for the Video signal and turns off the Off Hook signal.
- (5) The modem chip operates on the basis of 29 commands. Sets the phase synchronization for the internal PLL circuit and set the pin state of modem chip. (The TxD and RxD pins are high impedance.)
- (6) Disables the \overline{CS} signal for DTMF tone.
- (7) Reads the test switch status. If D7 is low, jump to the self-diagnosis routine.
- (8) Initializes the system & Video RAM.
- 9 Starts the key scan.
- (10) Reads the country code.
- (1) Enters the FORTH execution mode. FORTH performs initialization.
- ② Setup screen information and the user dictionary are stored in SV-RAM. A sum check is performed for the setup screen information. If the values are unequal, the default value is set according to the country code.

The user dictionary is checked in the same way. If an error is detected, the dictionary is cleared.

(13) Displays the editing screen.

1. CPU PCB Unit

(1) Operation Outline

Operation of CPU and peripheral equipment after initialization is shown below. (Refer to the block diagram description for an outline of each element)

(1) When a key is input.

CPU gets and processes keydata at intervals of 6.5 ms.

- (1)-1. The Gate Array #2 has a timer to count the key strobe interval time.
- (1)-2. The KTOBF signal is outputted to the DUART when the count is full count. (The KTOBF: 6.5 ms period)
- (1-3. Upon detection of the KTOBF signal, the DUART outputs IRQ signal (6.5 ms period) to the CPU.
- 1)-4. After receiving the IRQ, the CPU outputs keystrobe data to Gate Array #3 to get key codes from the keyboard.
- (1)-5. CPU arranges the codes with a keytable according to the country code and convert them into the system code (like ASCII code).
- ①-6. CPU stores the codes into the text area in the SYS & video RAM, reads their character-pattern from the CG area in SYS ROM, and saves it into the video area into the SYS & video RAM.
- (1)-7. Read and write timing for these data are controlled by Gate Array #1.
- ①-8. Gate Array #2 reads the video data and converts it from parallel to serial with the LDPS signal and outputs the video data to the CRT.
- (2) When you set the setup screen.

The CPU stores two kinds of information in SV-RAM.

- (1. Setup information
- 2. Personal dictionary

Whenever write the data, the CPU checks PFAIL bit. If PFAIL bit is on, the CPU stops to write the SV-RAM's data. If it is off, the CPU writes it into the SV-RAM. (PFAIL bit is set when the +5V is instable.)

3 Text save

FDC is built in the Gate Array #3. Read/Write of μ FDD is controlled by this LSI. When saving Text on the disk, the CPU saves system RAM data (includes text) and SV-RAM data on the disk. The data is saved separately in the disk text area and SV-RAM area.

- (4) Text call
 - (4)-1. Text data and SV-RAM data are loaded together if user set load setup or spelling from the disk at the setup screen when loading Text data from disk to System RAM.
 - (4)-2. The read data signal from the μ FDD is separated into its components signals, clock bit and data by Gate Array #3.
- (5) When you leave from keyboard:

If the screen blanking time is not set to "Never" in the setup screen, text data is automatically saved to disk by stopping key input for the established time.

If CPU doesn't get key data for three consecutive scans, the screen-off count begins from this point. If any key input is indicated before count end, the counter is cleared.

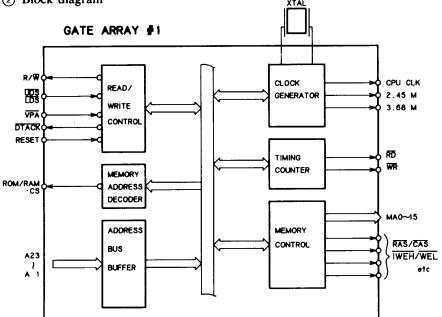
If count is full count, the CPU inhibits all interruptions and text data is transferred to FDD. Then the video signal goes high and the picture is turned off (The system and video RAM information remains as is. In this state, the Video signal does not function but other signals continue to operate.)

2-4

- (6) For communications (The example is for Automatic answering.)
 - 6-1. The telephone set is connected with an exchange through CN7 and CN6 during standby. In this case, DC-48V voltage is applied between 3 and 4 pin of CN 6.
 - 6-2. The calling indicator signal is input to the telephone set from the exchange. The signal also makes the telephone set ring.
 (Calling indicator signal: 16 Hz, 75 V ring tone signal)
 - 6-3. DC element is removed from the calling indicator signal by C57, and only the AC signal is applied to PC1.The signal then appears on the RG-line.
 - ⑥-4. The RG signal is connected to DUART pin 2. The level is periodically checked by the CPU. If there are variations in the signal level, the CPU counts the number of low levels (the number of rings). When this value becomes equal to the number of rings, auto answering is done.
 - ⑥-5. Turn on the OFF-Hook signal and switch relay K2 to the NCU side. (For auto answering, leave relay K1 as is.
 For manual answering, turn on the phone signal and disconnect the telephone set line from the mainframe circuit.)
 - (6)-6. A DC-current loop is then established between the exchange and T1 (1-2).
 - 6-7. The DC element is removed by T1 and the carrier is transferred between 4 and 3. It is then converted by R38 and input to Filter IC38.
 - 6-8. IC38 has two Op Amps. One is for the sending carrier, and one is for the receiving carrier. This IC splits the receiving carrier from the sending carrier, amplifies it, and inputs it to RxIN.
 - ⑥-9. IC 38 also has two filters. The modem chip sets the answer mode for these filters. (The low filter is used for receiving; the high filter is used for sending.)
 The carrier is output from RxOUT via the low filter.
 - 6-10. The modem chip judges whether the carrier is FSK or PSK. The CPU reads the modem chip status to obtain the result of this judgement.
 - (6)-11. The carrier is then demodulated by the modem, and the serial data is output to DUART.
 - 6-12. DUART converts the serial data from serial to parallel.

 The data is then stored in the system & Video RAM.

- (2) Gate Array #1
 - (1) Function description (Refer to Page 1-6)
 - ② Block diagram



3 Signal description

Signal name	I/O	Signal description
HSYNC	О	CRT horizontal synchronizing signal. Approx. 24 KHz.
VSYNC	О	CRT vertical synchronizing signal. Approx. 60 Hz
RAM/ROM.CS	О	Signal enable memory decoder of Gate Array #2
MODE	I	This terminal is for manufacture (always low)
CPU CLK	О	CPU Clock 5 MHz (200 ns)
20 M	О	Timing of RAS, CAS etc. Used for the shift clock of video data.
2.45 M	О	Not used
3.68 M	О	Clock for DUART operation
CS. V/C	О	CPU basic memory cycle time is 800 ns. One cycle consists of a CPU read/write cycle and video read/write cycle. CS. V/C: When high, video read/write cycle CS. V/C: When low, CPU read/write cycle
LDPS	О	Signal loads video data and converts it from parallel to serial. Data is output to Gate Array #2, and it is converted from parallel into serial at Gate Array #2.
I/O CS	О	Signal enable I/O decoder of Gate Array #2.

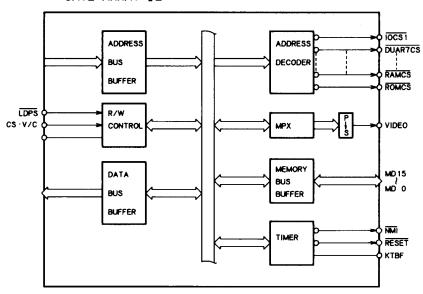
2-6

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- (2) Gate Array #2
 - ① Function description (Refer to Page 1-7)
 - 2 Block diagram

GATE ARRAY #2



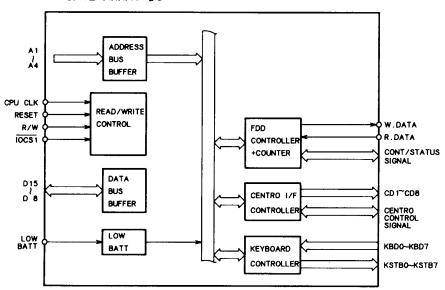
Signal name	I/O	Signal description
MNI	O	Signal resets the system when CPU is abnormal. Gate Array #2 has a watch dog timer. It starts count after gate array initialization. When count end is indicated, the signal goes NMI = Low. CPU clears the timer at intervals of 840ms to keep NMI = High.
RESIN	I	After the signal from the RESET circuit is input, the RESET
RESET	О	Signal is output with a 0.7ms delay.
KTOBF	О	One of the timers produces the keystrobe interval time (6.5 ms). When the counter indicates count end, KOTOBF = High is output to DUART. This signal is used as a key interrupt signal to CPU through DUART.
OFF HOOK PHONE	O	 The OFF HOOK and PHONE signal is used as shown below When the mainframe is set to automatic reception, Ring is detected. OFF HOOK = High is set, K2 relay is set on, and the telephone circuit is connected with the mainframe. Next, PHONE=High is set, K1 relay is set on and the telephone set is separated from the telephone circuit. When auto dialing with a dial-phone, the dial pulse is generated by switching the OFF HOOK signal on and off.

2-7

"RaskinDoc062_2-07.PICT" 155 KB 2000-02-25 dpi: 400h x 400v pix: 1886h x 2962v

- (4) Gate Array #3
 - ① Function description (Refer to Page 1-7)
 - 2 Block diagram

GATE ARRAY #3



Signal name	I/O	Signal description
PE	I	When there is no paper in the printer, the signal goes High.
IPP	О	Signal initializes the printer. This signal synchronizes the mainframe with the printer initialization.
ERR	I	The signal goes Low when there is an error in the printer.
DSTB	О	Centro data strobe signal
LEDE	О	Signal switching for LED when a lock key is pressed.
c.c	O	After initialization, C.C = level is set to check whether the test switch is On. A self diagnosis test is executed when the test switch is On.
DSO	О	Drive select signal

Source: David T. Craig

2. CRT/Power Supply Unit (MATSUSHITA)

(1) Power Supply Specifications

Item	Voltage	Use
VCC	+5 V ±4%	CPU PCB, KEYBOARD
+12 V	$+12 \text{ V} \pm 3\%$	CRT
-12 V	$-12 V_{-3V}^{+1}$	CPU PCB (RS-Driver)

(2) Circuit Description (Power Circuit)

The power circuit consists of four blocks which are described below (Refer to circuit diagram).

(1) EMI filter & rectifier

This block rectifies the AC voltage and passes it through a filter to generate DC voltage. The functions of the main element are shown below.

- 1) R1 limits inrush current to C6, C7, C5, and C24 when the power is switched on.
- 2) When the input voltage changeover terminal is set to 115V, the input voltage is divided by C6 and C7. They also work to remove ripple.

(2) Main chopper

This block consists of transistors Q2, Q3 and transformer T2.

When transistor Q2 (main chopper) is set on, energy is stored in transformer T2. When Q2 is set to off, the energy is converted into the secondary voltage. Thus, the primary voltage is converted into the secondary voltage while repeatedly turning Q2 on and off. The functions of main elements are shown below.

- C8, R4 and D1 drive the base voltage of Q2.
 R2 is the starting resistor for switching on Q2.
- 2) D3 (Catch-diode) holds the fly-back voltage during Q2 off.
- 3) L3 and R6 improve the trun-off speed.

3 DC output

This block rectifies the high-frequency wave and smoothes it with a filter to generate DC voltage. The functions of main elements are shown below.

- 1) D8 and D7 are diodes used for +5 V rectification. D6 is for +12 V rectification and D9 is for -12 V rectification.
- 2) The pi (π) form filters C16, C17, C20, L6 remove the 5 V line ripple.
- 3) The pi (π) form filters C15, L5, C801 remove the +12 V line ripple.
- 4) The pi (π) form filters C18, C17, C19 remove the -12 V line ripple.
- 5) The overvoltage protective circuit (SCR1, Z1, R27) switches off Q2 and switches on SCR1 when the 5 V line voltage exceeds the voltage in Z1.

(4) Voltage regulation & current limiter

This block monitors the output current with IC1. When the current exceeds the specified value, the block switches transistor Q3 on and Q1 off. This operation regulates the voltage and also controls the output current. The main functions are shown below.

- 1) D5, R15, C12, D11 and R14 are the Q3 current limiting circuits.
- 2) IC1 compares the 2.5 V reference voltage with the output voltage. If the output voltage exceeds the specification, Q3 is switched on.
- 3) L4 and R16 produce a saw tooth waveform in the Q3 editor when Q3 is switched on. It switches off Q1 and T3.

- (3) Circuit Description (CRT)
 - The CRT circuit consists of six blocks which are described below (Refer to circuit diagram).
 - (1) Video circuit
 - Video input is inverted and amplified by the linear amplifier Q351 to drive CRT cathode
 2.
 - L352, C351 and R352 are inserted in collector emitter of Q351 to compensate high pass and have a flat frequency characteristic
 - (2) CRT circuit
 - This emitted electrons driven by the cathode are controlled by G1, and accelerated by G2. They strikes against the CRT fluorescent material by supplying focusing voltage to G4, resulting in picture brightness regeneration.
 - 3 Bright ADJ circuit
 - The brightness is controlled by adjusting the CRT G1 voltage obtained by changing R531 and R530 connected between the positive and negative voltages obtained from the FBT.
 - Burning of the fluorescent surface of the CRT by the residual spot phenomenon when the power switch is turned off is prevented by the charging and discharging circuit made up of C519, R524, R518 and D510 connected in series with the G1 circuit as a spot killer.
 - (4) Vertical deflection circuit
 - The vertical oscillator is turned on and off by the charging and discharging circuit made up of C403, R405 and R416 and has a 56 Hz vertical oscillation frequency synchronized to V.SYNC.
 - The amplitude of the sawtooth waveform generated at pin 8 is adjusted with R418.
 - Vertical scanning is performed by passing the sawtooth waveform current taken from the output circuit through deflection coil DY(V).
 - The vertical linearity is corrected by changing the feedback waveform with R417.
 - (5) Horizontal output circuit
 - The horizontal oscillator is oscillated by the charging and discharging circuit made up of C506, C523, R508 and R528 and 24 KHz obtained by controlling the horizontal oscillation frequency automatically by AFC circuit.
 - The IC predrive circuit switches Q503 and drives the horizontal deflection and high voltage generation circuits.
 - The deflection circuit is connected in series yoke DY(H).
 Linearity is adjusted with L502 and linear horizontal deflection is performed by L503 and C521.
 - The voltage needed at the CRT is obtained by boosting (T501) and rectifying the flyback pulse by Q503 switching operation.
 - 6 Dynamic focus circuit
 - The approximate anode = 13 kV, G2 = 500 V, video = 50 V, and brightness circuit positive and negative voltages are obtained from the voltage taken from T501.
 - The G4 voltage is varied with R529 and a static focus voltage is obtained.

3. CRT/Power Supply Unit (GOLD STAR)

(1) Ratings (Power Supply)

1) Input

ITEMS (RATED VOLTAGE)	220/240 V	100V	120V
INPUT VOLTAGE	AC 230V +/-15%	AC 100V +32%/-10%	AC 120V +/-15%
FREQUENCY PROTECT	47 ~ 53 Hz	47 ~ 53 Hz, 57 ~ 63 Hz	57 ∼ 63 Hz

2) Output

ITEMS	-12V	+5.1V	+12V
VOLTAGE REGULATION	-12V + 2V / -1V	+/-3%	+/-3%
RIPPLE		50m Vp-p MAX	50m Vp-p MAX
OVER VOLTAGE		0 ~ 7V dc	

^{*} The output voltage is obtained by the Normal Load State.

(2) Circuit Description (Power Supply)

1) Input filter circuit

The AC input is filtered by C901, C904, L901 and is rectified by Bridge Rectifier (D901) and C905. The F901 is protected from overcurrent in the primary circuit.

The C902, C903 is for restriction of leakage current and noise.

2) Driving circuit

The SNUBBER CIRCUIT consists of R903, C907, D902, C925 and is prevented from overshooting which is occurred between Ton and Toff of Q1 in the IC901.

The Sensing Voltage is induced from the formular (N12=Nsen=6/12*Ns+12) and is rectified in reverse, filtered by C906.

Therefore, at pin 1 in the IC901, the sensing voltage is occurred to -6V and the Driving voltage is generated through Nb=N 1, 2, is flowed through R906, C911 \rightarrow C912 \rightarrow R905, C906, to the pin 2 of IC901.

The C910, R904 is for preventing ringing and having soft start.

The C909, C911 is for rising the speed of Driving Current.

If the polarity of N12 is charged, the route of discharge is flowed through Transformer 2 →D904→C912→D903→Transformer 1.

The D905 is for restricting the Driving Voltage.

3) Output circuit

When transistor Q1 in the IC901 is OFF, the stored energy in the primary winding is delivered to the secondary circuit through the secondary winding.

The Output Voltage (+12V, +5V, -12V) is rectified by D907, D909, D912 and filtered by C913, C914, C916, C917, C923.

Therefore, by the regulator (IC902, IC903, IC905), the constant voltage is obtained.

4) Over voltage protection circuit (+5V)

The +5V is obtained by regulator (IC903) and then if OVER VOLTAGE is generated in the +5V line, by Bleeder resistor (R911, R912) and D911, the base of Q902 is biased. Therefore, the current is flowed through Diode in IC904 and Q902 is ON.

The gate voltage is generated and the rectified voltage is flowed from pin 5 to pin 6 and O901 is ON.

Therefore the base current of Q1 in the IC901 is decreased and the collector current is decreased.

(3) Circuit Description (CRT)

1) Video amplifier

Video amplification is provided by transistors Q301 and Q302. Transistor Q301 and Q302 are connected in a cascade configuration; Q301 operates as an common emitter and Q302 operates in the common base configuration.

This minimizes the Miller effect input capacitance and the defining breakdown parameter for Q302 becomes BvCBO as opposed to BvCEO for the common emitter configuration. This enables selection of a higher speed/lower breakdown transistor to be used in the video amplifier.

The video amplifier is normally off. That is, in the absence of a video input signal or with a signal level of less than 0.6V.

Then the CRT cathode voltage will be at +55V when the input signal exceeds 0.6V.

The amplifier can be adjusted by rotating subcontrast variable resistor VR 301.

Then the amplifier begins operation in the linear region and the CRT cathode voltage starts to decrease with a normal voltage gain of 35 V.

2) Vertical deflection

The vertical electronics circuit consists of an IC701 (TDA 1170N) and the vertical deflection coil of the DY. (and associated circuitry)

The IC701 (TDA 1170N) incorporates all the functions for providing the yoke of the MONITOR with the current required for vertical deflection.

The preamplifier is a high input impedance differential type, with invented input available at PIN 10.

The non-inverting input is fixed internally in the circuit at a stabilized voltage of approximately 2.2 V.

During flyback, the flyback generator produces a voltage equal to approximately double the supply voltage and this is applied at the Yoke by means of the power amplifier.

The oscillator is a threshold type with a high degree of frequency stability.

It is a synchronized with a circuit which receives either positive or negative sync. pulses and ensures complete immunity from noise throughout most of the scanning time.

The time constant circuit that determines the vertical oscillation frequency consists of C602, R607 and VR601 connected at the PIN 9 of IC601.

The vertical size control function is performed by VR603 and R609 causing the negative feedback to change.

3) Horizontal deflection

The IC701 performs the horizontal synchronization (Oscillator) and Horizontal Drive.

The AFC circuit consists of the phase detection circuit of the IC701 and the associated component that connected to PIN 3 and PIN 4 of IC701.

The oscillation limit circuit is necessary to prevent the pulse from excessive high voltage. This circuit is located in the IC701 and controls the oscillator to maintain the control signal in its correct frequency and in phase with the horizontal sync signal.

The oscillation frequency consists of C710 connected with the PIN 11 of IC701 and R714, VR702 connected with the PIN 12 of IC701.

Horizontal Drive pulse out of the IC709, PIN 8 are through T701 (Horizontal Drive Trans) to the base of Horizontal output Q703.

Transistor Q708 is based on when the beam is at about midscreen.

The charge stored on C724 causes current to flow through the Horizontal Yoke winding and Q703 to ground.

When the beam reaches the right side of the screen, Q703 is truned off, and the current in the Yoke is directed in C714.

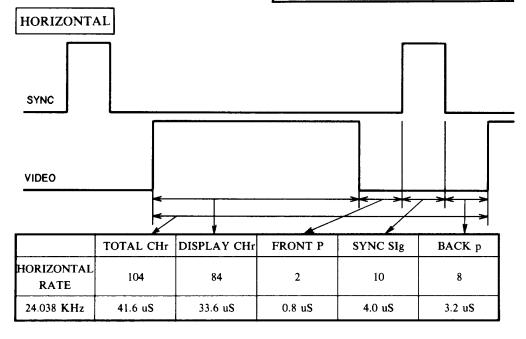
At the same time, the current flows into C714 from the regulated B+ via to FBT primary winding.

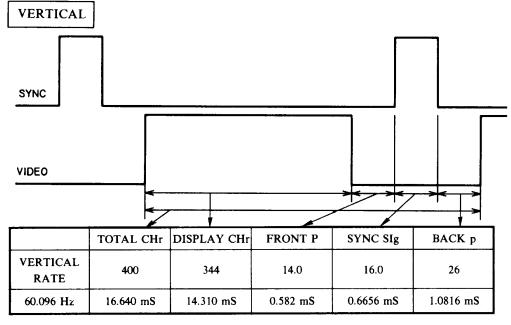
Due to resonance, the current then reverses and flows back through the horizontal yoke winding into C724.

2-3. Circuit Description

4) Timing Chart

CHARACTER	7*9 DOTS
CHARACTER BLOCK	8*14 DOTS
CHARACTER CLOCK	2.5 MHz
DOT CLOCK	20 MHz





2-14

"RaskinDoc062_2-14.PICT" 98 KB 2000-02-25 dpi: 400h x 400v pix: 1885h x 2997v

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CHAPTER 3

REPAIR

		2.00	rage
3-1.	μFDD Unit		3-1 3-
	CRT/Power Supply Unit		3.
	(MATSUSHITA)	*******	3-17
3-3.	CRT/Power Supply Unit		
	(GOLD STAR)		3-25

"RaskinDoc062_3-00.PICT" 237 KB 2000-02-25 dpi: 400h x 400v pix: 1874h x 2828v

Source: David T. Craig

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3. REPAIR

3-1. μ FDD Unit

1. Disassembly Reassembly

(1) Flowchart

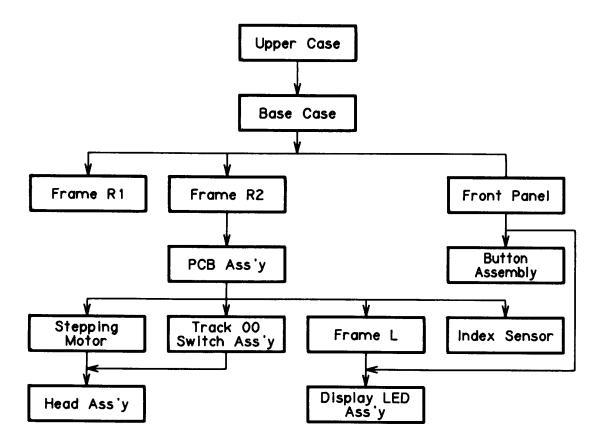


Fig.3-1

3-1

"RaskinDoc062_3-01.PICT" 63 KB 2000-02-25 dpi: 400h x 400v pix: 1903h x 2979v

3-1. μ FDD Unit

(2) Disassembly · reassembly

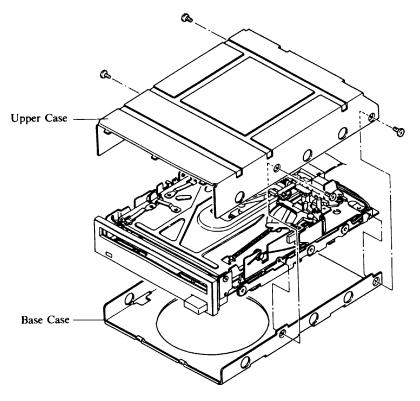


Fig.3-2

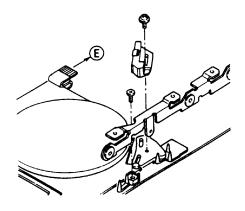


Fig.3-3

3-2

"RaskinDoc062_3-02.PICT" 139 KB 2000-02-25 dpi: 500h x 500v pix: 2030h x 3717v

Source: David T. Craig

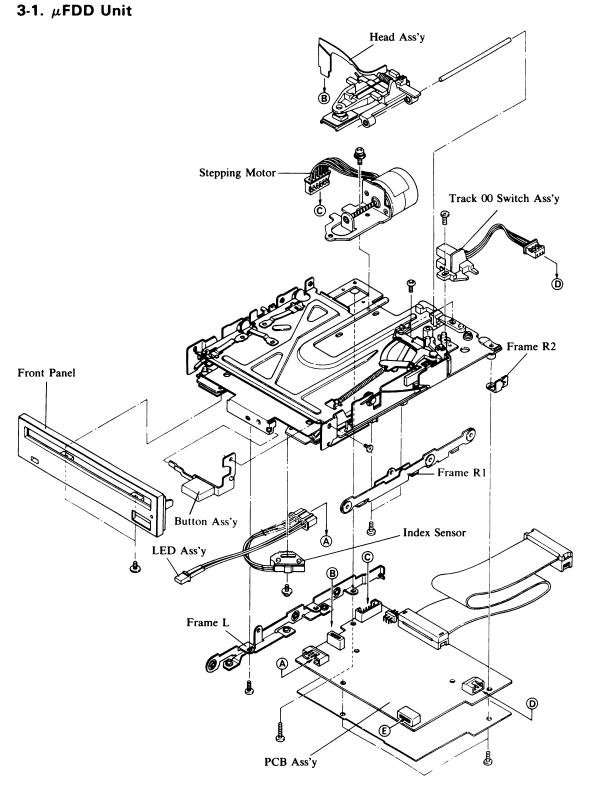


Fig.3-4

3-3

"RaskinDoc062_3-03.PICT" 286 KB 2000-02-25 dpi: 600h x 600v pix: 2889h x 4451v

Source: David T. Craig

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3-1. μ FDD Unit

2. Electrical Adjustment

(1) Preparation

- 1) The check terminals are shown in Fig. 3-5.
- 2) We recommend to use an adapter as shown in Fig. 3-6, when making connections between measuring equipment and check terminals.
- When making connections, ensure that the system is turned off before connecting any probes and turned on only after all connections are completed.
- 4) Confirm that any conductive materials are not sticked to the drive and then turn the system switch on.

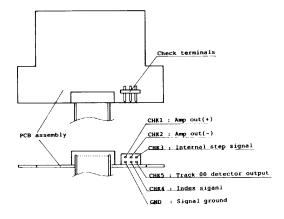


Fig. 3-5

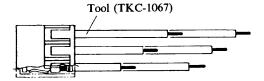


Fig. 3-6

3-1. µFDD Unit

(2) Index burst position adjustment

Adjustment purpose

This adjustment is made when the Index Sensor, etc. has been replaced.

The sensor position is adjusted so that sector 1 is assigned from the correct position after index signal detection.

Adjustment procedure

- 1) Connect the Drive to the System.
- 2) The Probes of the Oscilloscope are connected as shown in Fig. 3-8 and the signal conditions are set up as shown in Fig. 3-7. The External Trigger must be: NORM, NEG.
- 3) Set the Alignment Disk in the Drive, and start FDD Adjustment. (See Chapter 4, Check Operation.)
- 4) Loosen the Mounting Screw on the Index Sensor and adjust its position so that the time between the sweep starting point and the burst starting point (indicated by "T" in Fig. 3-9) is within the adjusted range: $400 \pm 400 \mu sec$.
- While taking care not to alter the precise adjustment, tighten the Mounting Screw on the Index Sensor.

Tools
Oscilloscope
Alignment Disk (TKC-0470)
Driver, Phillips type (+) (CK-0129)

SWITCH	CH1	CH2
AC-GND-DC	AC	AC
VERT	ADD	
INVERT	_	ON
VOLT/DIV	0.1 V	0.1 V
TIME/DIV	0.1 msec.	
CONNECTION TERMINAL	СНК1	СНК2

Fig. 3-7

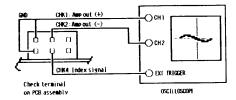


Fig. 3-8

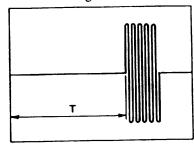
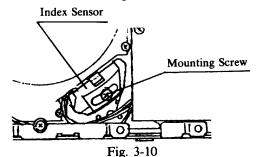


Fig. 3-9



3-5

3-1. μ FDD Unit

(3) Track position adjustment

Adjustment purpose

After the Stepping Motor, etc. has been replaced, the motor position is adjusted so that the Head is accurately stepped to the objective track.

Adjustment procedure

- 1) Connect the Drive to the System.
- 2) The Probes (1 : 1) of the Oscilloscope are connected as shown in Fig. 3-12 and the signal conditions are set up as shown in Fig. 3-11.

The External Trigger must be: NORM, NEG.

- 3) Set the Alignment Disk in the Drive, and start FDD Adjustment. (See Chapter 4, Check Operation.)
- Loosen the Mounting Screw on the Stepping Motor.
- 5) In Index Burst Position, turn the Eccentric Dowel for Adjustment so that the burst ratio of the wave forms (cats eye pattern) are within 85% to 100% of the burst ratio value obtained from burst ratio formula.

$$Burst\ ratio = \frac{Smaller\ reproduced\ voltage}{Larger\ reproduced\ voltage} \times 100$$

6) While taking care not to alter the precise head position setting, tighten the Mounting Screws on the Stepping Motor.

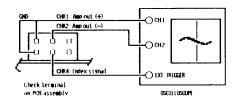
Confirmation

In step in and step out, check that the burst ratio is within 75% to 100% for both sides as to both case. If the burst ratio is outside of range, re-adjust.

Tools
Oscilloscope
Alignment Disk (TKC-0470)
Driver, Phillips type (-) (CK-0120)
Driver, Phillips type (+) (CK-0103)

SWITCH	CH1	CH2			
AC-GND-DC	AC	AC			
VERT	AI	OD			
INVERT	_	ON			
VOLT/DIV	0.1 V	0.1 V			
TIME/DIV	20 n	nsec.			
CONNECTION TERMINAL	CHK1	СНК2			

Fig. 3-11



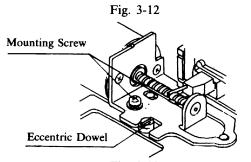
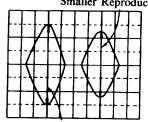


Fig. 3-13 Smaller Reproduced Output



Larger Reproduced Output Fig. 3-14

3-6

Source: David T. Craig

3-1. μ FDD Unit

(4) Track 00 position adjustment

Adjustment purpose

After the track 00 switch assembly, etc. has been replaced, its position is adjusted so that the head is accurately set to track 00.

Adjustment procedure

- 1) Connect the Drive to the System.
- 2) The Probes of the Oscilloscope are connected as shown in Fig. 3-16 and the signal conditions are set up as shown in Fig. 3-15. The External Trigger must be; INT, CH2, NEG.
- 3) Set the Normal Disk in the Drive, and start FDD Adjustment.
- Select the Track 00 and move the head in alternate steps between track 00 and track 06.
- 5) Loosen the Mounting Screw on the track 00 switch assembly and adjust its position by turning the Eccentric Dowel so that the positive-going edge of waveforms displayed on the Oscilloscope will be within the range in Fig. 3-18. The starting point of the positive going edge (0.4V 2.4V) shall be within the time range: 3.0 msec from the track 01 pulse.
- 6) While taking care not to alter the precise adjustment, tighten the Mounting Screw on the track 00 switch assembly.

Tools
Oscilloscope
Normal Disk
Driver, Phillips type (+) (CK-0103)
Driver, Phillips type (-) (CK-0120)

SWITCH	CH1	CH2				
AC-GND-DC	DC	DC				
VERT	AI	OD				
INVERT		_				
VOLT/DIV	2V	2V				
TIME/DIV	10 r	nsec.				
CONNECTION TERMINAL	СНК3	CHK5				

Fig. 3-15

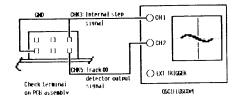


Fig. 3-16

Eccentric
Dowel for Adjustment
Fig. 3-17

00 - 0102 04 05 06 0504030201 2 4V

Fig. 3-18

3-7

3-1. μ FDD Unit

(5) Modulation

Adjustment purpose

After disassembly, reassembly, or adjustment, the reproduce output amplitude is checked as the final check

Confirmation procedure

- 1) Connect the Drive to the System.
- 2) The Probes of the Oscilloscope are connected as shown in Fig. 3-20 and the signal conditions are set up as shown in Fig. 3-19. The External Trigger must be: NORM, NEG.
- 3) Set the Normal Disk in the Drive, and select the track 00 and the track 79 modulation, and observe the waveform.
- 4) Set the Normal Disk in the Drive B.
- 5) Confirm that the calculated values (ratios) using the following formula will be less than 10%.

$$Formula = \frac{A - B}{A + B} \times 100$$

A: Maximum value of output voltage

B: Minimum value of output voltage

Tools Normal Disk Oscilloscope

SWITCH	CH1	CH2				
AC-GND-DC	AC	AC				
VERT	AI	OD .				
INVERT	_	ON				
VOLT/DIV	0.2V	0.2V				
TIME/DIV	20 n	nsec.				
CONNECTION TERMINAL	CHK1	СНК2				

Fig. 3-19

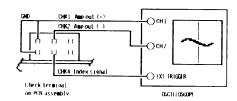


Fig. 3-20

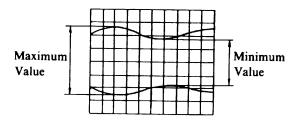
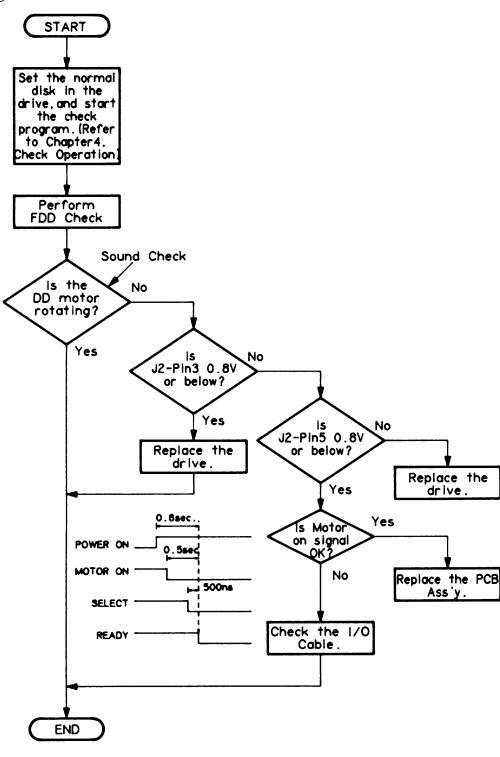


Fig. 3-21

3-1. μ FDD Unit

3. Circuit Diagram

- (1) Defective block identification
- (1) Rotation check

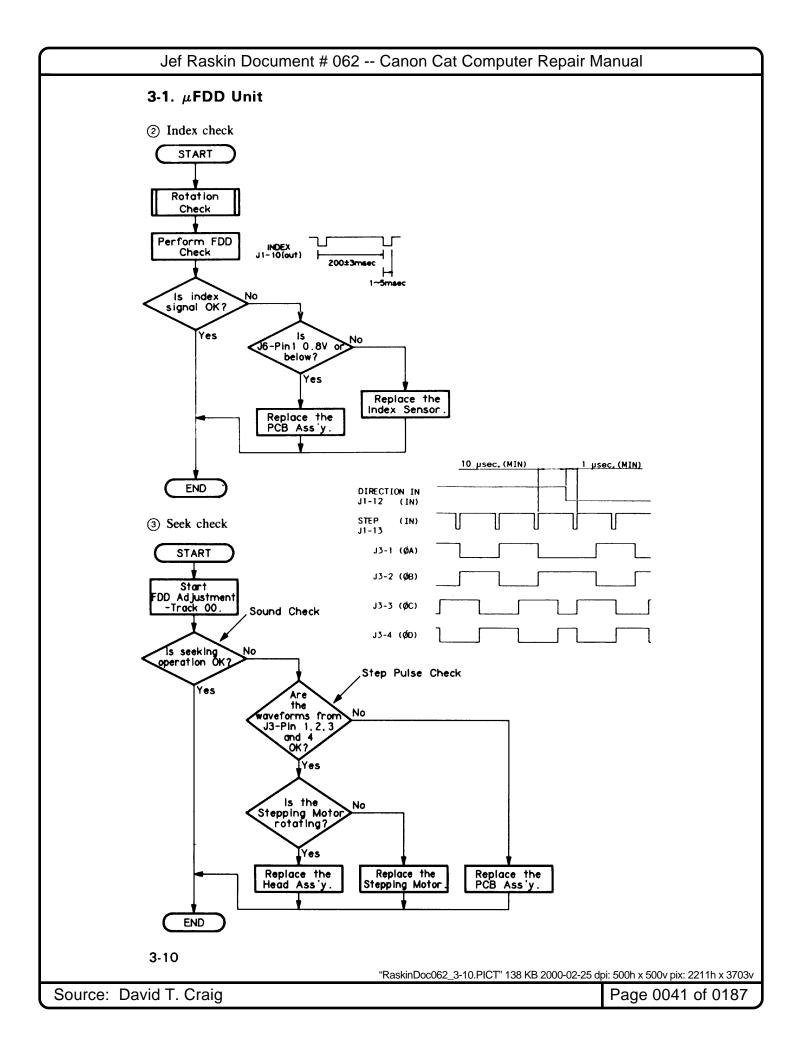


3-9

"RaskinDoc062_3-09.PICT" 127 KB 2000-02-25 dpi: 500h x 500v pix: 2342h x 3717v

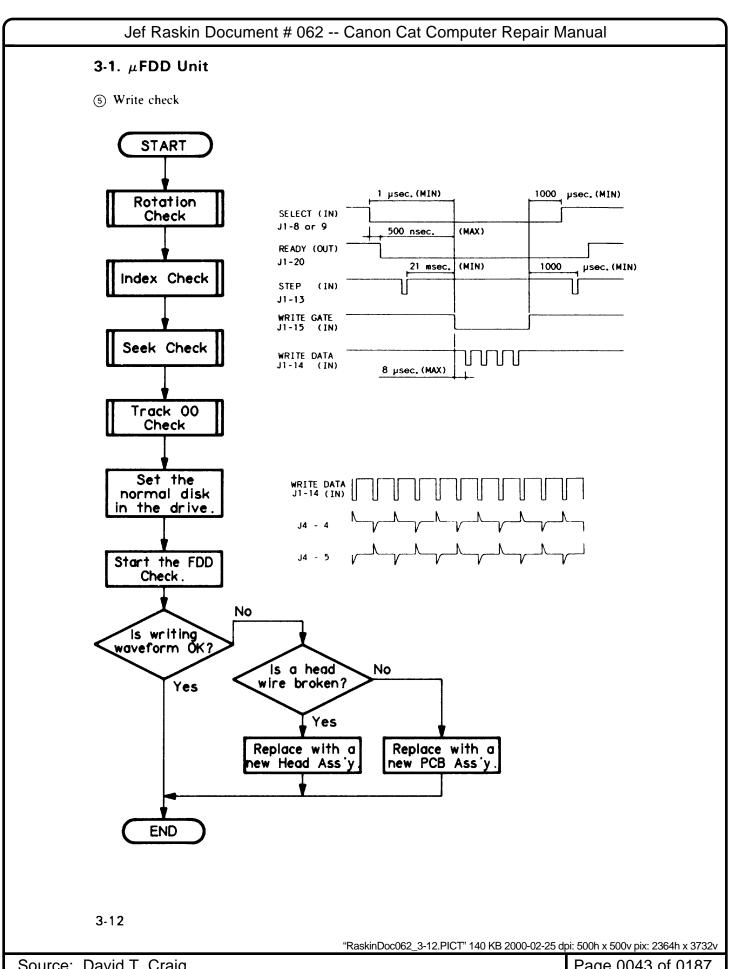
Source: David T. Craig

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Jef Raskin Document # 062 -- Canon Cat Computer Repair Manual 3-1. μ FDD Unit 4 Track 00 check **START** DIRECTION IN J1-12 (IN) Seek Check STEP J1-13 (IN) Start TRACK 00 J1-16 (OUT) FDD Adjustment 4.0 msec.(MAX) Track 00 of the Check Program. Track 00 signal 0K? No Yes 1s CHK5 3.5V or No gbove? Yes Replace the Track 00 Switch Replace the PCB Ass'y. Ass'y. **END** 3-11 "RaskinDoc062_3-11.PICT" 96 KB 2000-02-25 dpi: 500h x 500v pix: 2335h x 3747v

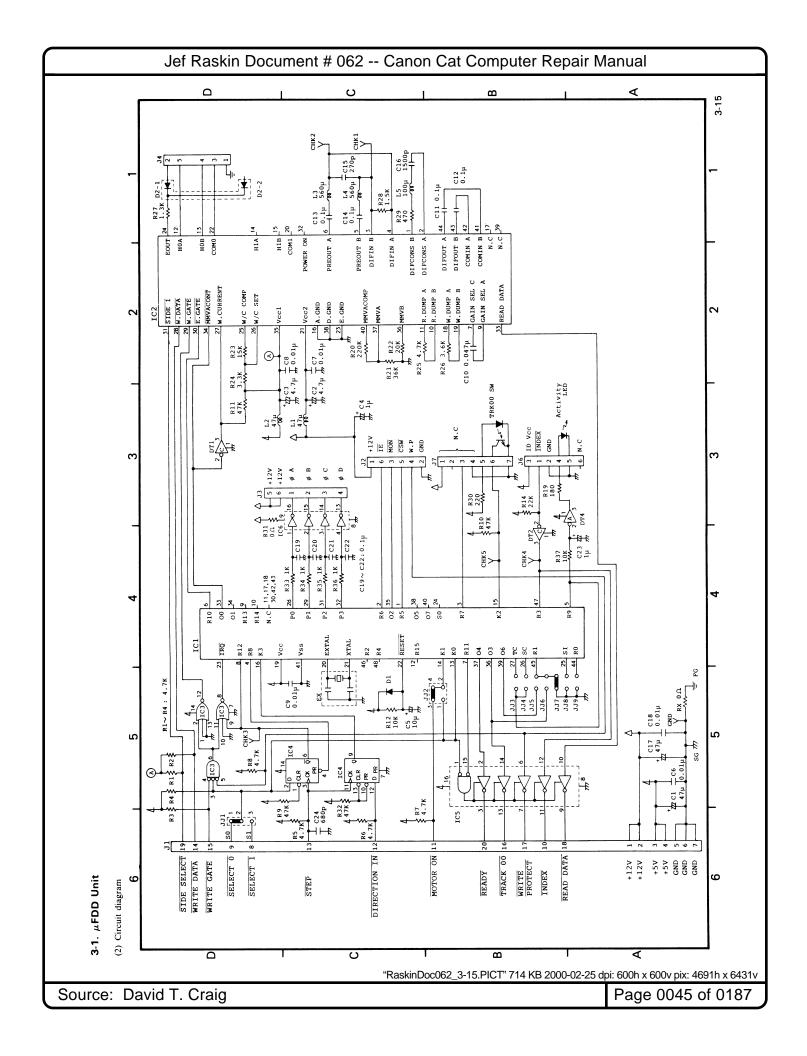
Source: David T. Craig Page 0042 of 0187



Source: David T. Craig Page 0043 of 0187

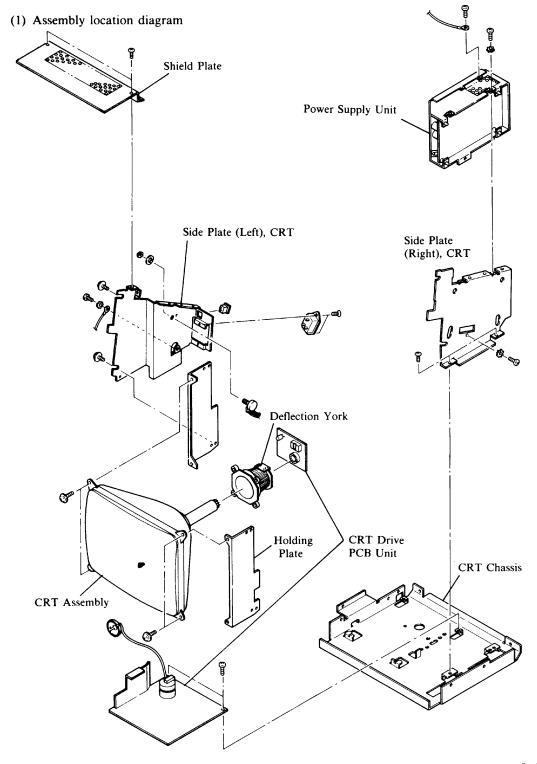
Jef Raskin Document # 062 -- Canon Cat Computer Repair Manual 3-1. μ FDD Unit 6 Read check **START** 500 nsec.(MAX) SELECT (IN) Rotation J1-8 or 9 500 nsec.(MAX) Check READY (OUT) J1-20 (MAX) 21 msec. STEP J1-13 (IN) Index Check 100 µsec. (MAX) WRITE GATE J1-15 (IN) READ DATA J1-18 (OUT) Valid data Invalid data Invalid data Seek Check IC2 - 6 Track 00 IC2 - 5 Check IC2 - 44 IC2 - 43 Write Check READ DATA J1-18 (OUT) Is reading waveform OK? No Replace the Yes PCB Ass'y. is reading No waveform OK? Yes Replace with a new Head Ass'y **END** 3-13 "RaskinDoc062_3-13.PICT" 144 KB 2000-02-25 dpi: 500h x 500v pix: 2343h x 3732v Source: David T. Craig

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1. Disassembly · Reassembly

Warning: Before disassembly, discharge the High Voltage throughly with the procedures of (2) Before repairing on page 3-18.



3-17

"RaskinDoc062_3-17.PICT" 181 KB 2000-02-25 dpi: 500h x 500v pix: 2350h x 3732v

Source: David T. Craig Page 0046 of 0187

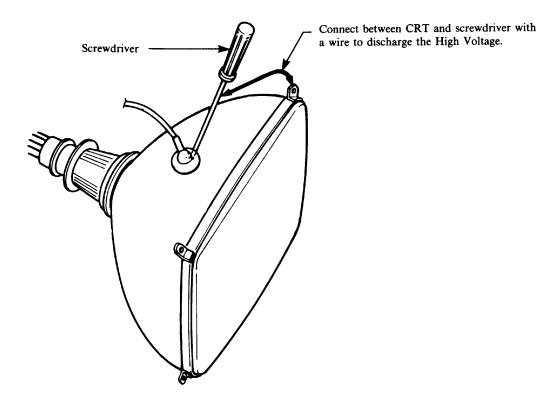
Caution for servicing is indicated below.

Before removing the CRT, discharge the High Voltage throughly with the following procedures Step 1 to 3.

Warning: Great care must be taken because the High Voltage will be charged for approximately 30 hours or more after power is turned off. Discharge the High Voltage before assembling each of the units or servicing.

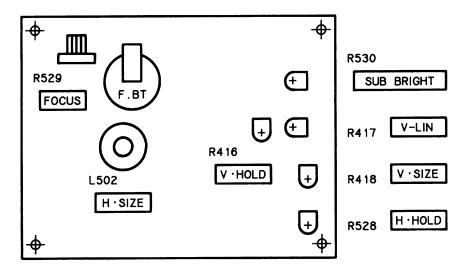
Procedures

- Step 1. Remove the CRT Socket P.C.Board from the CRT.
- Step 2. Discharge the High Voltage which has been charged in the CRT.
- Step 3. Remove Anode Cap.



Discharge of High Voltage

2. Electrical Adjustment



ADJUSTMENT ITEM	ADJUSTMENT POINT	TOOL	CHECK PROGRAM
(1) Horizontal synchronization	R528	Driver	H Pattern
(2) Vertical synchronization	R416	Driver	H Pattern
(3) Vertical amplitude	R418	Driver	H Pattern
(4) Vertical linearity	R417	Driver	H Pattern
(5) Horizontal amplitude	L502	Ferrite Core Driver	H Pattern
(6) Sub bright	R530	Driver	H Pattern
(7) Focus	R529	Driver	H Pattern
(8) Centering	Deflection coil centering magnet		H Pattern
(9) Deflection distortion	4-pole correction magnet	Plastic Square Driver	H Pattern

Note: Turn on the power and wait for the circuits to stabilize (30 minutes or more) before making any adjustments.

3-19

(1) Horizontal synchronization

(Adjustment purpose)

Adjustment of the character area to the center of the raster.

(Adjustment procedure)

- 1) Turn R528 clockwise and find the point at which the screen is distorted to the right.
- 2) Turn R528 counterclockwise and find the point at which the screen is distorted to the left.
- 3) Set synchronization to the center of the left and right distortion of the screen.

Note: The screen may not be distorted when R528 is turned clockwise or counterclockwise. In this case, assume that the MAX position of the VR is the point at which the screen is distorted.

(2) Vertical adjustment

The adjustment purpose and procedure are the same as horizontal adjustment. The adjustment VR is R416.

(3) Vertical amplitude

(Adjustment purpose)

Adjustment of the vertical display length to 115 mm.

(Adjustment procedure)

1) Turn R418 clockwise or counterclockwise and adjust the vertical display length to 115 mm.

Note: Vertical display length: 115 mm \pm 2 mm.

(4) Vertical linearity

(Adjustment purpose)

Adjustment so that the height of the character H is the same at the top row and bottom row.

(Adjustment procedure)

 Turn R417 clockwise and counterclockwise and adjust so that the length of the top and bottom characters is the same.

(5) Horizontal amplitude

(Adjustment purpose)

Adjustment of the horizontal display length to 170 mm.

(Adjustment procedure)

 Turn L502 clockwise and counterclockwise and adjust the horizontal display length to 170 mm.

Note: Horizontal display length: 170 mm ± 2 mm.

3-20

3-2. CRT/Power Supply Unit (MATSUSHITA)

(6) Brightness

(Adjustment purpose)

Adjustment to the point at which the back raster disappears at the BRIGHT VR MAX position.

(Adjustment procedure)

- 1) Set the BRIGHT VR (R531) to MAX.
- Turn SUB BRIGHT R530 clockwise and counterclockwise and adjust it to the point at which the back raster disappears.

(7) Focus

(Adjustment purpose)

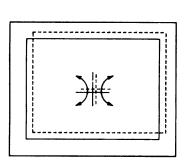
Adjustment to the position at which the entire screen is focused uniformly.

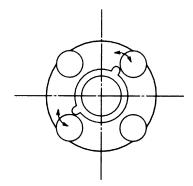
(Adjustment procedure)

Turn R529 clockwise and counterclockwise and adjust it to the position at which the center
of the screen is focused uniformly.

(8) Centering

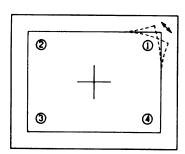
Adjust the deflection coil centering magnet so that the display area is at the center of the CRT.

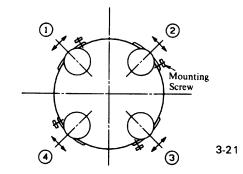




(9) Deflection distortion

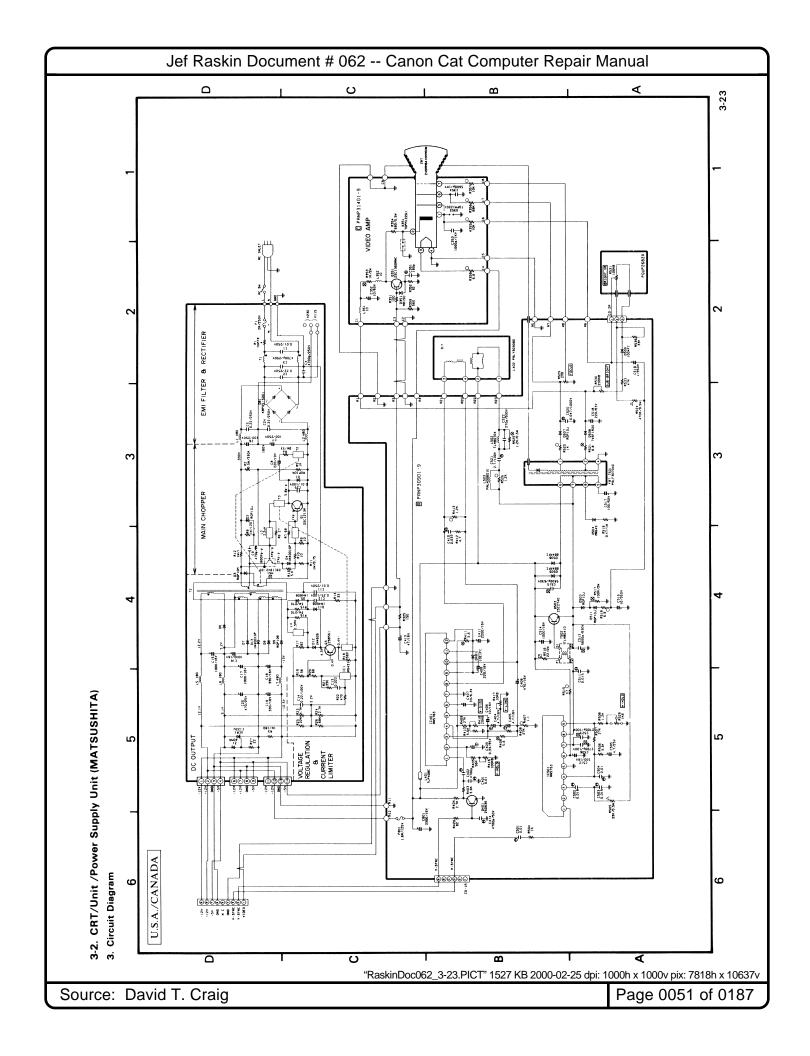
Correct the distortion by loosening the 4-pole correction magnet mounting screws and moving the magnet.



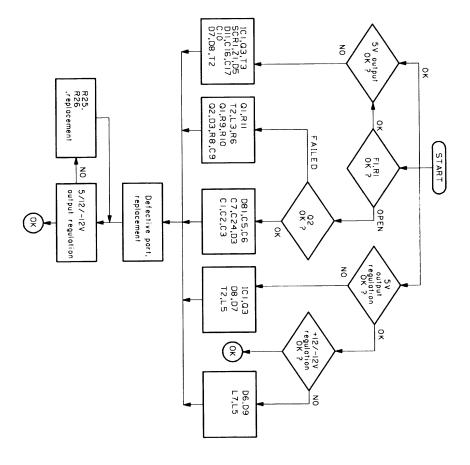


"RaskinDoc062_3-21.PICT" 185 KB 2000-02-25 dpi: 500h x 500v pix: 338h x 545v

Source: David T. Craig Page 0050 of 0187







"RaskinDoc062_3-24.PICT" 132 KB 2000-02-25 dpi: 500h x 500v pix: 545h x 345v

Repairing Flowchart

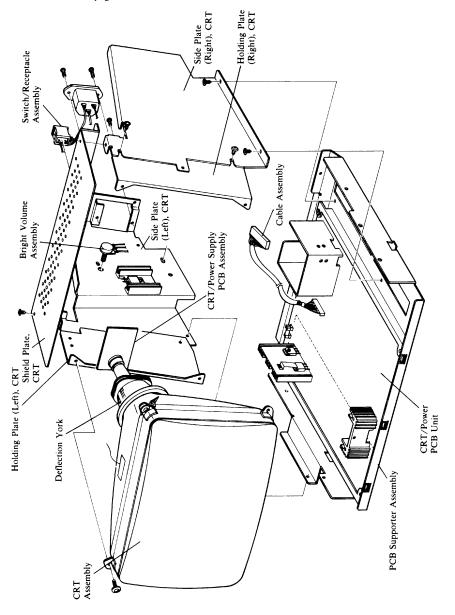
3-2. CRT/Power Supply Unit (MATSUSHITA)

Source: David T. Craig Page 0052 of 0187

3-3. CRT/Power Supply Unit (GOLD STAR)

1. Disassembly · Reassembly

Warning: Before disassembly and discharge the High Voltage throughly with the procedures on page 3-18.



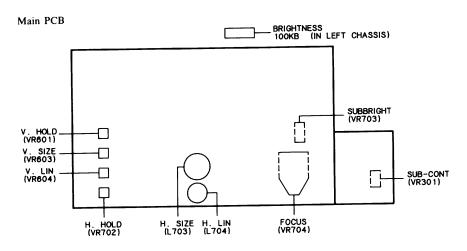
3-25

"RaskinDoc062_3-25.PICT" 242 KB 2000-02-25 dpi: 500h x 500v pix: 336h x 540v

Source: David T. Craig Page 0053 of 0187

3-2. CRT/Power Supply Unit (GOLD STAR)

2. Electrical Adjustment



ITEM	ADJUSTMENT POINT	TOOL	CHECK PROGRAM		
(1) Horizontal synchronization	VR 702	Adjustment Tool Kit	H Pattern		
(2) Vertical synchronization	VR 601	Adjustment Tool Kit	H Pattern		
(3) Vertical size	VR 603	Adjustment Tool Kit	H Pattern		
(4) Vertical linearity	VR 604	Adjustment Tool Kit	H Pattern		
(5) Horizontal size	L 703	Adjustment Tool Kit	H Pattern		
(6) Horizontal linearity	L 704	Adjustment Tool Kit	H Pattern		
(7) Brightness	100 KB (AT P703)	Adjustment Tool Kit	H Pattern		
(8) Focus	VR 704	Adjustment Tool Kit	H Pattern		
(9) Contrast	VR 301	Adjustment Tool Kit	H Pattern		
(10) Sub-bright	VR 703	Adjustment Tool Kit	H Pattern		
(11) Centering		Adjustment Tool Kit	H Pattern		
(12) Deflection distortion		Adjustment Tool Kit	H Pattern		

Note: Turn on the power and wait for the circuits to stabilize (15 minutes or more) before making any adjustments.

3-26

"RaskinDoc062_3-26.PICT" 177 KB 2000-02-25 dpi: 500h x 500v pix: 345h x 535v

Source: David T. Craig Page 0054 of 0187

3-3. CRT/Power Supply Unit (GOLD STAR)

Supplementaly description

For items (1) to (6), refer to page 3-20.

(7) Brightness

(Adjustment purpose)

Adjustment to the point at which the back raster disappear at the BRIGHT VR MAX position.

(Adjustment procedure)

- 1) Set the BRIGHT 100KB (At P703) to max.
- 2) Turn SUB BRIGHT VR703 clockwise and counterclockwise and adjust it to the point at which the back raster disappears.

(8) FOCUS

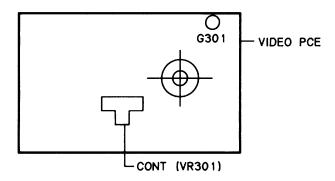
(Adjustment purpose)

Adjustment to the position at which the entire screen is focused uniformly.

(Adjustment procedure)

Turn VR704 clockwise and counterclockwise and adjust it to the position at which the center of the screen is focused uniformly.

(9) Contrast



Adjustment point	Method of Adjustment
CONT (VR301)	Adjust to the contrast at which the characters are easy to see.

3-27

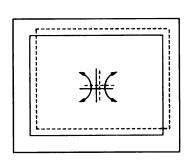
"RaskinDoc062_3-27.PICT" 130 KB 2000-02-25 dpi: 500h x 500v pix: 335h x 536v

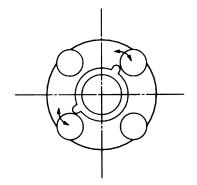
Source: David T. Craig Page 0055 of 0187

3-3. CRT/Power Supply Unit (GOLD STAR)

(11) Centering

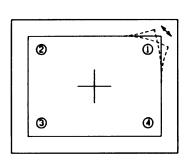
Adjust the deflection coil centering magnet so that the display area is at the center of the CRT.

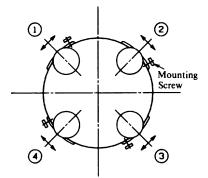




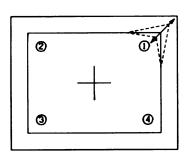
(12) Deflection distortion

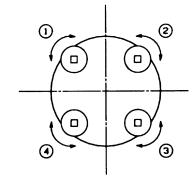
① Correct the distortion by loosening the 4-pole correction magnet mounting screws and moving the magnet.





2) Correct the distortion by turning the 4-pole correction magnet.





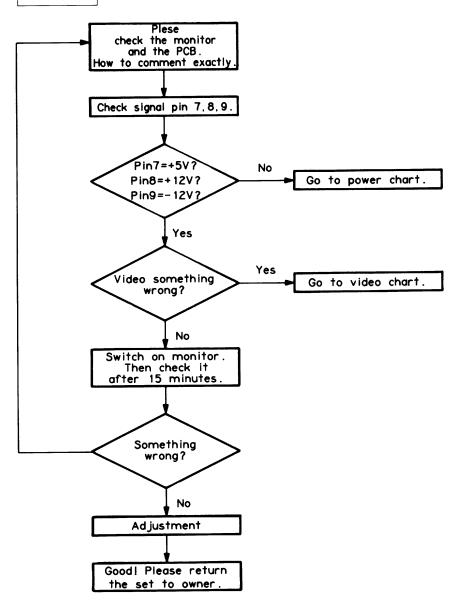
3-28

"RaskinDoc062_3-28.PICT" 174 KB 2000-02-25 dpi: 500h x 500v pix: 341h x 537v

3-3. CRT/Power Supply Unit (GOLD STAR)

1) Trouble shooting chart

MAIN CHART



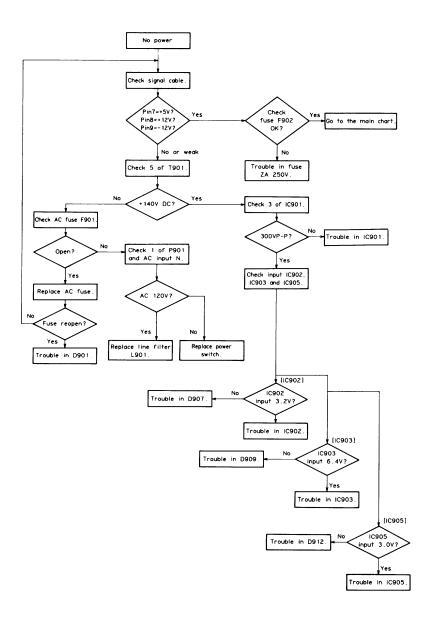
3-29

"RaskinDoc062_3-29.PICT" 124 KB 2000-02-25 dpi: 500h x 500v pix: 340h x 534v

Source: David T. Craig Page 0057 of 0187

3-3. CRT/Power Supply Unit (GOLD STAR)

POWER CHART



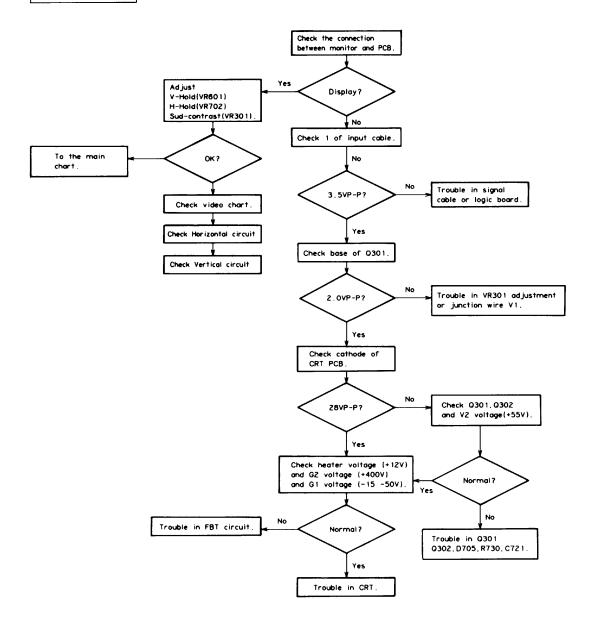
3-30

"RaskinDoc062_3-30.PICT" 117 KB 2000-02-25 dpi: 500h x 500v pix: 318h x 538v

Source: David T. Craig Page 0058 of 0187

3-3. CRT/Power Supply Unit (GOLD STAR)

VIDEO CHART

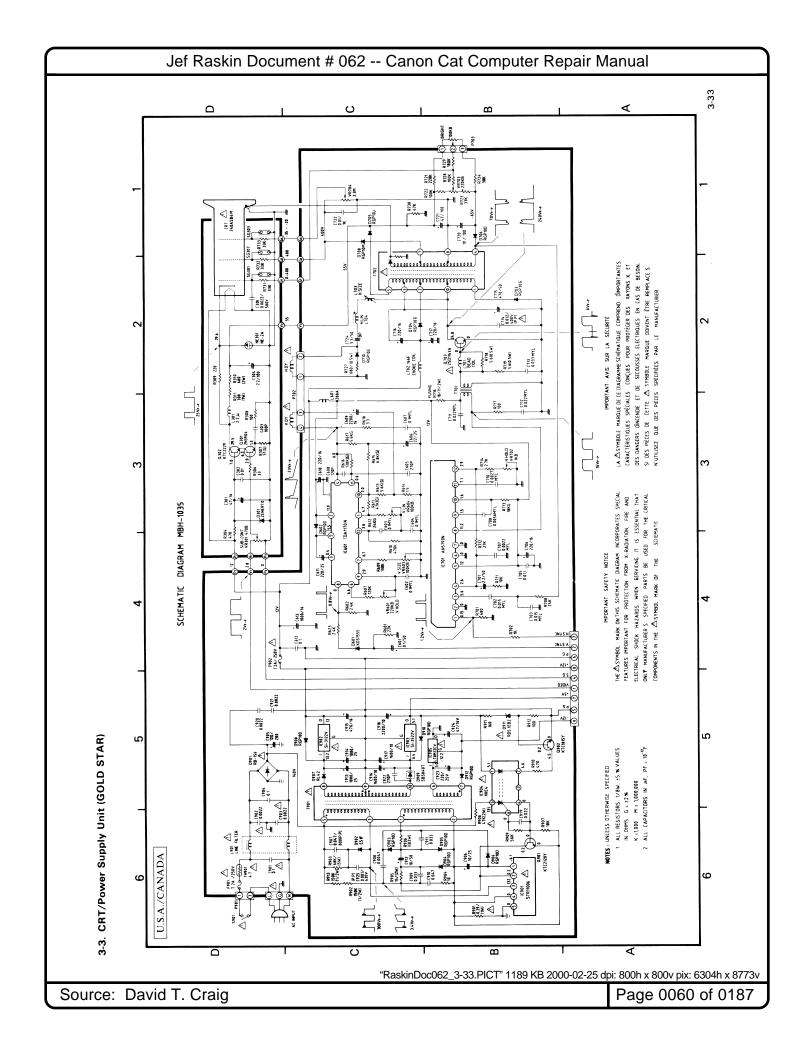


3-31

"RaskinDoc062_3-31.PICT" 100 KB 2000-02-25 dpi: 500h x 500v pix: 2357h x 3710v

Source: David T. Craig

Page 0059 of 0187



3-4. CPU PCB Unit

1. Circuit Diagram

To repair the CPU PCB unit, set it in a normal device. (Before setting the CPU PCB unit, confirm that the CPU PCB unit is not strapped.)

Then, check it according to the following flowchart.

START

② After setting the power switch to ON, perform the sum check for the system ROM. As a result, "Beep" sounds once (approx. 450 ms) for OK.

① Use self diagnosis to perform the defective block identification.

If "Beep" does not sound, the ROM sum error or the previous circuit is faulty,

③ Because the Gate Array #1 operations are checked visually, the CRT display is turned on and off. If the CRT display is ON, Gate Arrays #1 and 2 and Video RAM are normal. If the display is faulty, the CRT synchronous signal and Gate Arrays #1 and 2 etc. are faulty.

(4) Take the appropriate countermeasure according to the results of self diagnosis.

Same as the above

If the internal modern is used to generate faulty communications, check circuits 7 to 9. The
main purposes of each element are shown below.

• RAV (arrester & varistor): lightning protection element

∑D2 & ZD3: Prevents ring-detection malfunctions (Removes noise of less than 15 V).
 VZ2: lightning protection element

SVR1: Controls the carrier to prevent the level from exceeding the standard level when

sending the carrier from the internal modem to the telephone line.

■ VZ2: lightning protection element If voltage exceeding 350 V is applied between CN6 3 and 4, close the circuit.

• VR1: Adjusts the DT MF sending level.
• VR2: Adjusts the carrier level.

4.Address decoder check : TP401∼403 6.Memory signal check : TP601∼603 7.Ringing signal check : TP701~704 8.DTMF TONE check: TP801~804 Refer to chapter 4, Check Operation. 2.Clock signal check : TP201∼204 3.DTACK,IRQ check : TP301~302 5.CRT signal check: TP501~505 1.Reset circuit check : TPIOI~102 9.Carrier check: TP901~904 Yes Yes ŝ ŝ ŝ Set the power switch to OFF and turn on it again.
Then perform communications. The CRT display is ON. Then it is turned OFF again. Perform a manual check. Turn the power switch on by pressing the Test SW(SW2). The results of self diagnosis are displayed "Beep" sounds once. Soes 'Beep 0K 2 ok ~ Yes 0 **⊚** (4) 6 0 Θ

"RaskinDoc062_3-35.PICT" 492 KB 2000-02-25 dpi: 600h x 600v pix: 4445h x 6407v

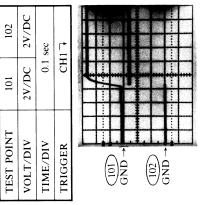
Source: David T. Craig

Page 0061 of 0187

3-4. CPU PCB Unit

Gate Array #2

Gate Array #1

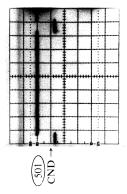


CH2

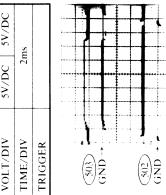
CHI

SOURCES

SOURCES	CH1	CH2
TEST POINT	501	
VOLT/DIV	\$V/DC	
TIME/DIV	5	5 μs
TRIGGER	СН	CH1 ¬



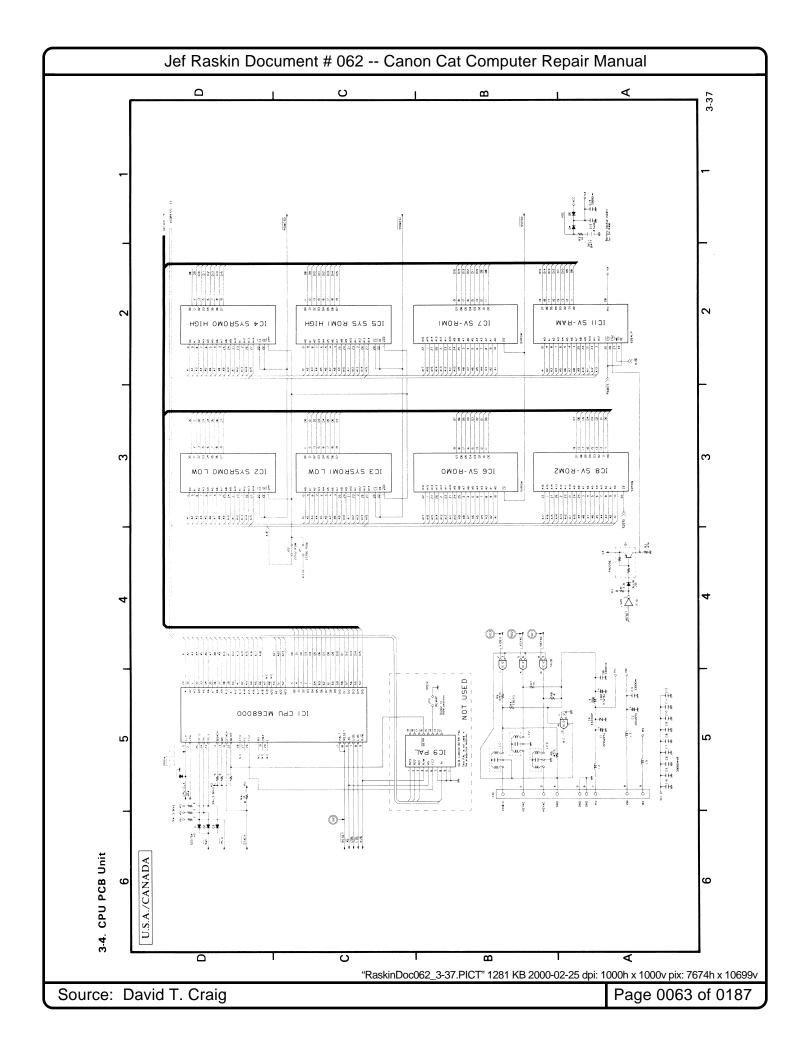
1		
SOURCES	CHI	CHZ
TEST POINT	503	502
VOLT/DIV	\$V/DC	\$V/DC
TIME/DIV	21	2ms
TRIGGER		

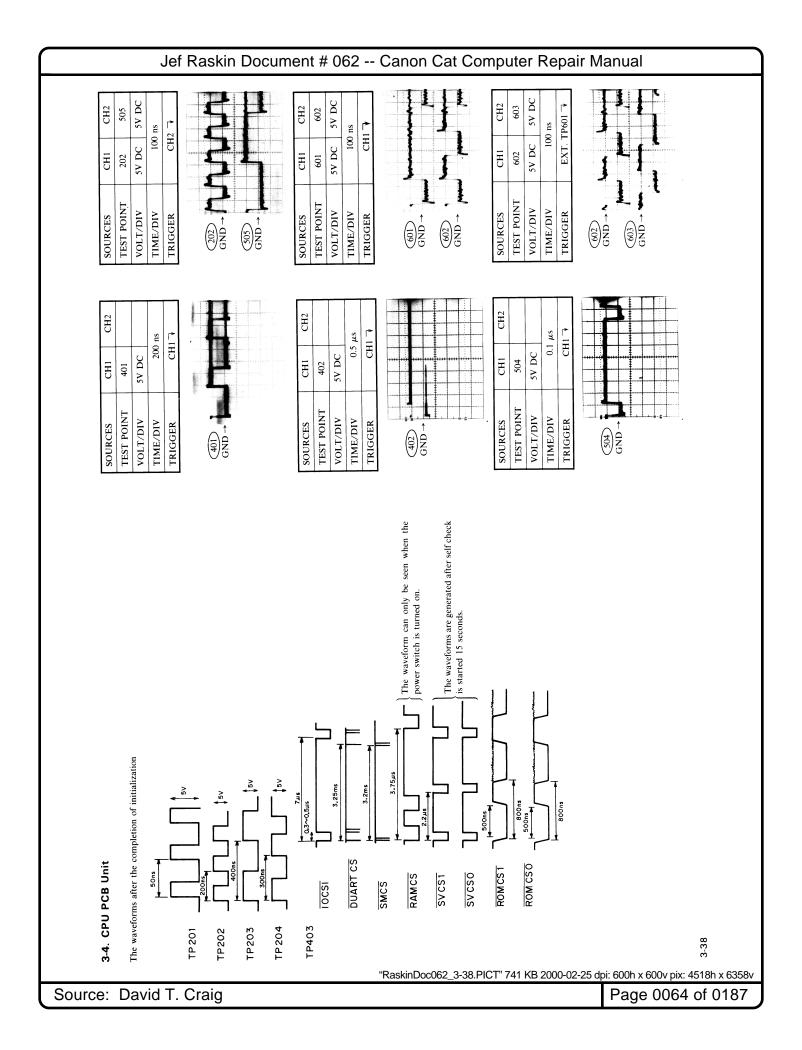


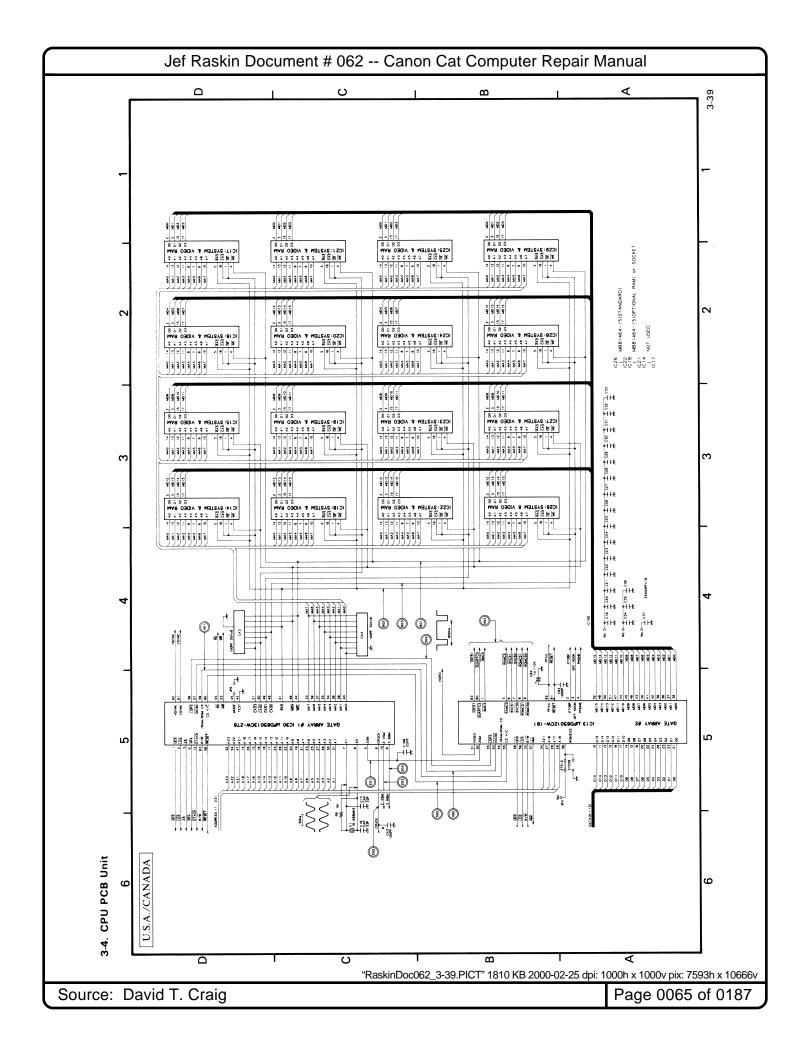
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Terminal	VDD	IO CSI	PFAIL	RESET	DUART CS	SCT	ODS	NMI	ROM SIZE	CS V/C	RAM ROM CS	IO CSO	MD15	MD12	MD13	GND	MD14	MD11	MD8	MD9	MD10	MD7	MD4	MD5	MD5	MD3	MD0	MDI	MD2	LDPS	A21	R/\overline{W}
0/1	I	0	_	0/1	0	Н	_	0	-	_	_	_	0/1	0/1	0/I		0/I	0/1	0/1	0/1	0/1	0/1	0/1	2	0/1	0/1	_	-	0/1	-	-	I
0,1	0	0	0	0	0	0	0	0	0	0/1	0/1	1/0	1/0	1/0	1/0	-	1/0	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/I	Ι	_	_	_	0	
Terminal	SMCS	KTOBF	OFF HOOK	PHONE	RAMCS	SVCS 1	SVCS 0	ROM CS1	ROM CS0	D15	D14	D8	D13	D3	D12	GND	D10	D11	D7	Dę	D0	DŞ	DI	D4	D2	D3	A18	A17	A16	20M	VIDEO	GND

O	_	7	3	4	2	9	7	∞	6	10	Ξ	12	13	7	15	16	17	81	19	20	21	22	23	24	25	26	27	28	29	30	31	32
121																-																
No.	2	63	62	61	9	59	58	57	99	55	54	53	52	51	50	49	48	47	46	45	4	43	42	41	40	39	38	37	36	35	34	33
Terminal	VDD	R/W	HSYNC	VSYNC	$CS.V/\overline{C}$	RAM. ROM. CS	RESET	IOCS	LDPS	RD	A22	WR	A23	CAS3	CAS2	CASI	CAS0	A21	WEH	MODE	WEL	GND	TEST	RAS	MA0	MA6	MAI	MAS	MA2	MA4	MA3	MA7
0/1	0	0	0	0	0	0	-	0	0	0	Ι	0	Ι	0	0	0	0	I	0	Ι	0	1	-	0	0	0	0	0	0	0	0	0
1/0	0	0	0	1	0	0	_	0	0	0	Ī	0	0	ı	-	_	_	I	I	_	-	П	I	_	_	_	_	_	_	_	_	1
Terminal	NDS	TDS	AS	VDD	20 M	3.68M	ïx	OX	CPUCK	2.45M	GND	VPA	DTACK	A18	A16	A15	A13	A14	A 8	A 9	Α7	A10	A16	A12	A5	A17	A4	A11	A3	A2	Α1	GND
No.	-	7	٣	4	2	9	7	∞	6	10	Ξ	12	13	4	15	16	17	18	19	20	21	22	23	24	25	26	27	28	59	30	31	32

"RaskinDoc062_3-36.PICT" 601 KB 2000-02-25 dpi: 600h x 600v pix: 4493h x 4864v







CH2 702 CHI 701 TEST POINT SOURCES

2V AC

0.5V AC

VOLT/DIV

5V DC

5V DC

VOLT/DIV TIME/DIV

SOV DC

50V DC

VOLT/DIV TIME/DIV TRIGGER

CH1 → 0.1 s

TRIGGER

GND-GND

GND GND

100 ris CH1 →

TIME/DIV

TRIGGER

GND-

GND GND

GND-GND

TEST POINT

CH11 →

0.2 ms

CH2 905

CHI 106

SOURCES

CH2 802

CHI

SOURCES

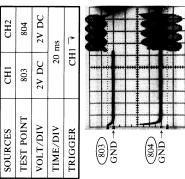
801

TEST POINT

Connect the telephone and the line to the jacks respectively, and observe the following waveforms.

- Ring tone signal at answering
- (b) Waveforms when setting Dial Pulse "3" at transmission to Auto Dial
- These waveforms are generated when the DTMF tone is used for Auto The waveforms can only be seen during DTMF operation. Waveforms do not appear during the standby period. Ring tone signal at answering 0 **©**
- Waveforms when the DTMF tone for automatically dial "2". (a)
- ① Waveforms when the carrier is received 1200 bps: PSK
- (g) Waveforms when the carrier is received 300 bps: FSK Receiving carrier and waveforms after demodulation

5V DC CH2 904 CH2 △ 2 ms 0.2V AC CH1 903 TEST POINT VOLT/DIV TIME/DIV TRIGGER (h) SOURCES GND-GND-GND



3	3	(106) GND
СН1 ¬∤	СН	TRIGGER
0.2 ms	0.2	TIME/DIV
2V AC	2V AC	VOLT/DIV
905	901	TEST POINT
CH2	CH1	SOURCES

 \odot

	-	١,	,	
40/	2V DC	S	1_1	
/03	20V AC	0.1 s	CH1 -	
ESI POINI	/OLT/DIV	IME/DIV	RIGGER	GND GND GND GND GND

102) (202)			
GND →			
			
OURCES	CH1	СН2	(o)
EST POINT	701	702	
OLT/DIV	20V DC	20V DC	
IME/DIV	0.1 s	s	
RIGGER	СН	CH1 →	

9	SOURCES	CH1	CH2
	TEST POINT	701	702
	VOLT/DIV	20V DC	20V DC
	TIME/DIV	0.1 s	S
	TRIGGER	СН	CH1 →

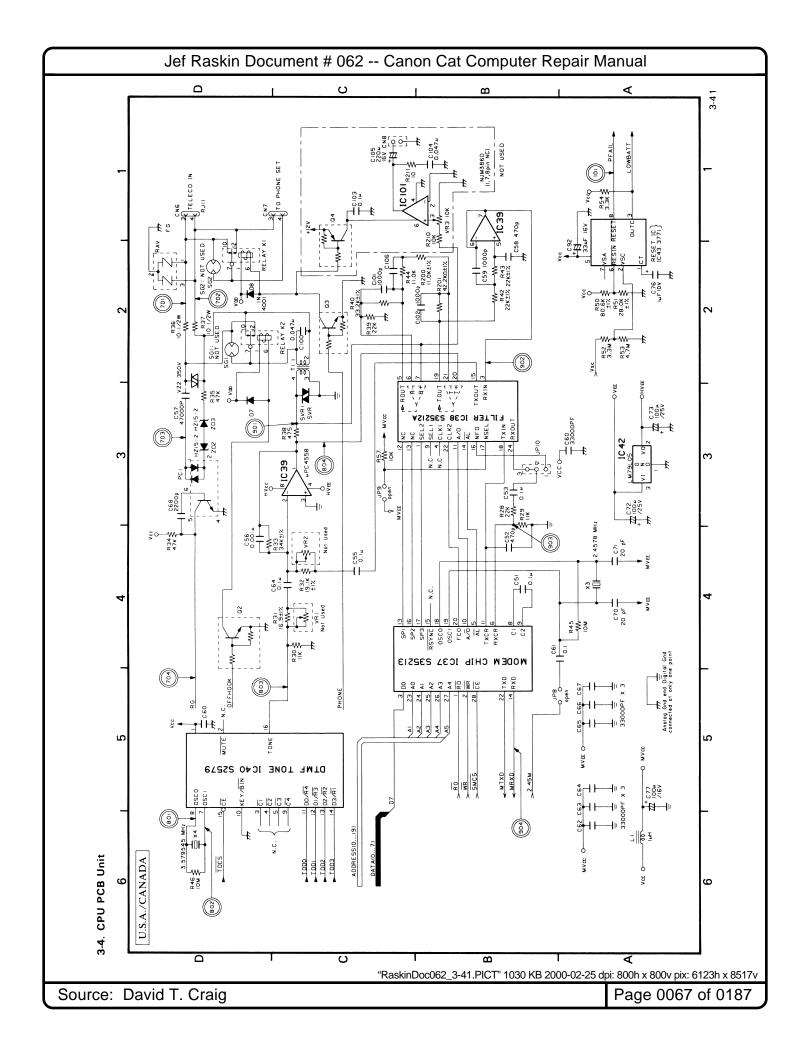
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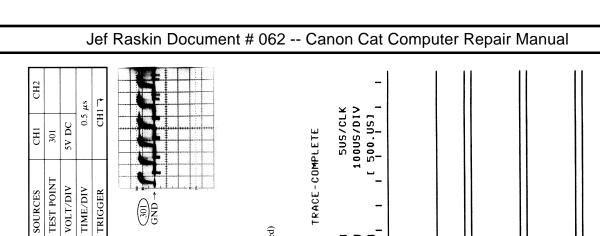
ၜ	SOURCES	CH1	CH2
	TEST POINT	703	704
	VOLT/DIV	20V AC	2V DC
	TIME/DIV	0.1	0.1 s
	TRIGGER	CHI	1_1
			1
			*
	Bar Bar Bar Bar	Ţ	

Conditions
Observation
Waveform

3-4. CPU PCB Unit

Source: David T. Craig





SOURCES	CH1	CH2
TEST POINT	302	
VOLT/DIV	SV DC	
TIME/DIV	0.5	0.5 ms
TRIGGER	СН	CH1 7
The state of the s		
(605)		
705		
CIND	****	
***************************************	*****	

Waveforms when "j" is printed (D5 to D0 are omitted) [X1] EXPAND INDICATOR [ON] GLITCH DISPLAY [OFF] MAGNIFICATION TIMING DIAGRAM TALK ONLY CENTRONICS I/F 0 8 (IC33-11) 4 BUSY (IC33-6) DSTB (IC10-4) (IC33-3) (IC33-8) SLCT

3-4. CPU PCB Unit

"RaskinDoc062_3-42.PICT" 766 KB 2000-02-25 dpi: 800h x 800v pix: 5991h x 8484v

(IC32-10) 5

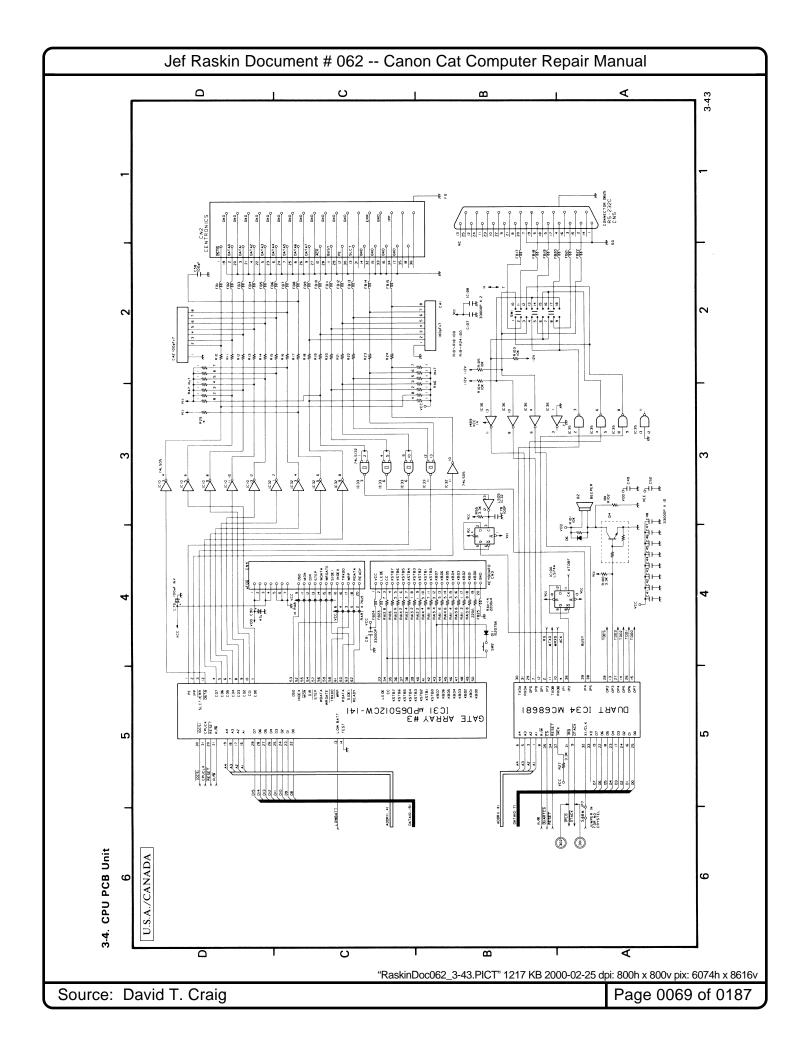
(IC32-6)

D6

Source: David T. Craig

Gate Array #3

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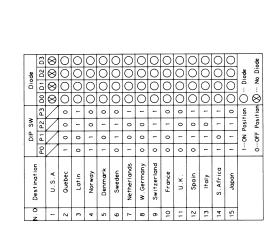


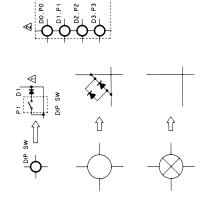
1. Keyboard Circuit (U.S.A./Canada/Asia/Oceania)

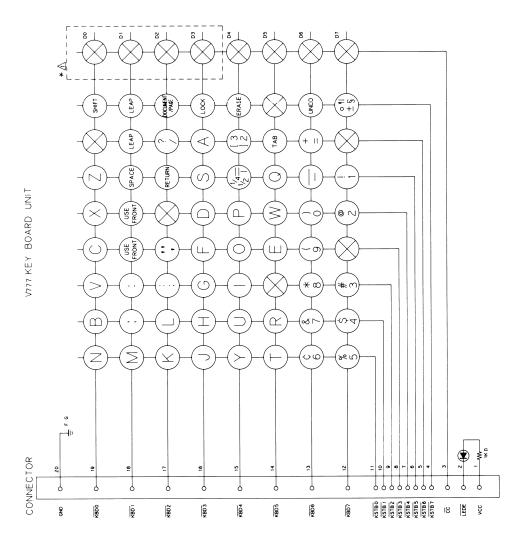
3-5. Keyboard Unit

Note) For countries other than U.S.A., set the country code, using the DIP SW.

• 🛆 : U.S.A • 🖎 : QUEBEC -



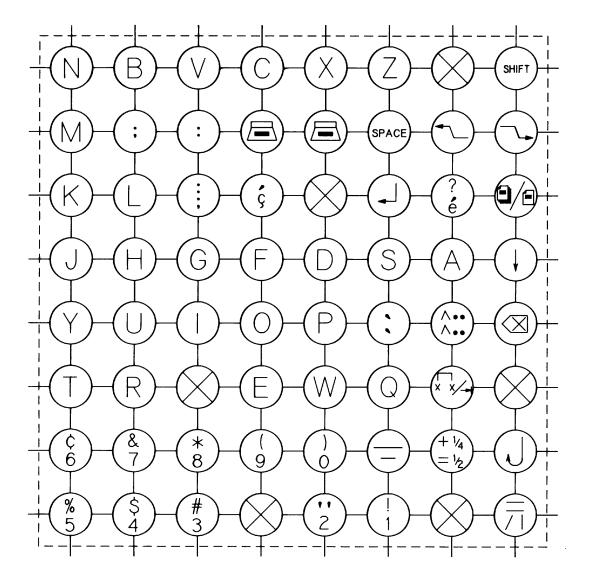




"RaskinDoc062_3-44.PICT" 967 KB 2000-02-25 dpi: 1000h x 1000v pix: 7510h x 8934v

3-5. Keyboard Unit

2. Keyboard Circuit (Quebec)



3-45

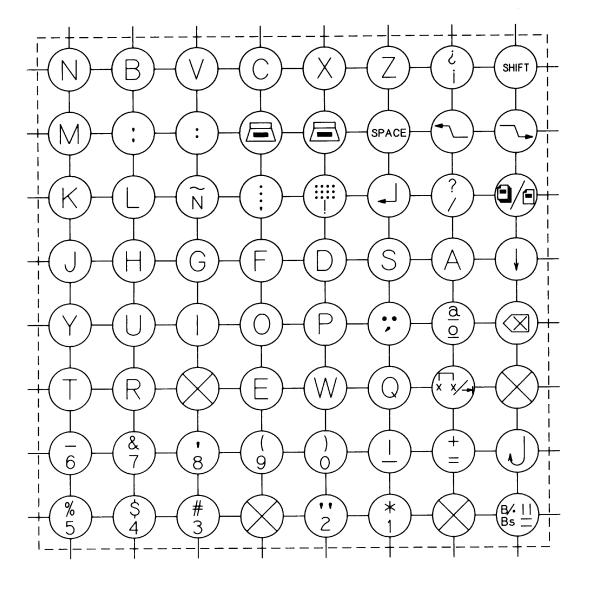
"RaskinDoc062_3-45.PICT" 222 KB 2000-02-25 dpi: 500h x 500v pix: 2364h x 3724v

Source: David T. Craig

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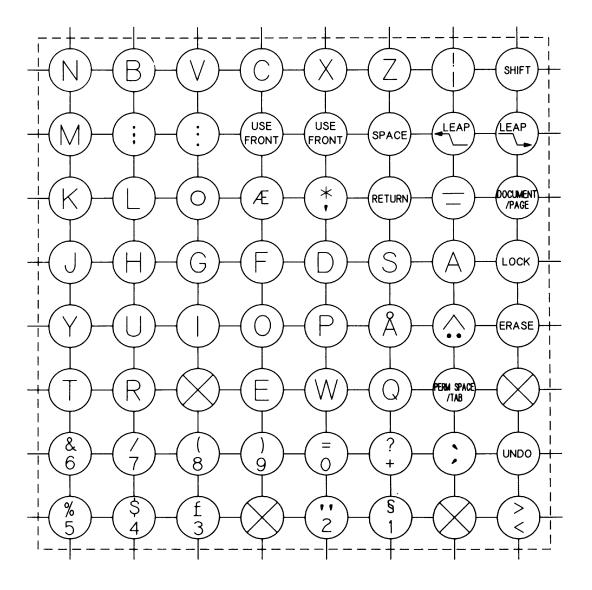
3-5. Keyboard Unit

3. Keyboard Circuit (Latin)



3-46

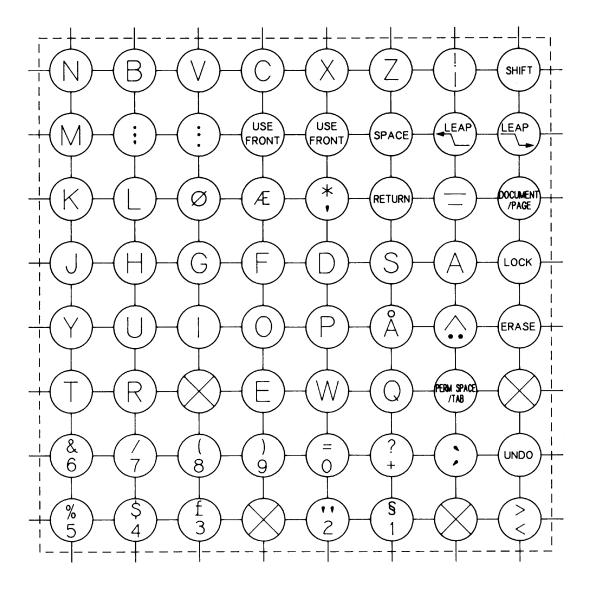
4. Keyboard Circuit (Norway)



3-47

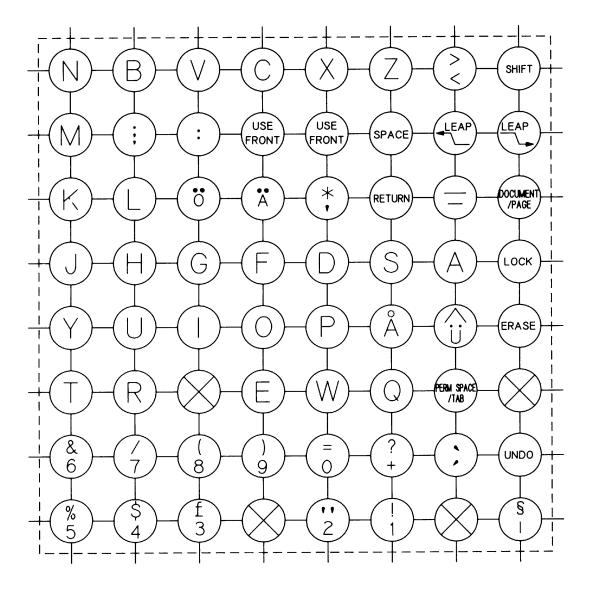
"RaskinDoc062_3-47.PICT" 217 KB 2000-02-25 dpi: 500h x 500v pix: 2350h x 3717v

5. Keyboard Circuit (Denmark)



3-48

6. Keyboard Circuit (Sweden/Finland)



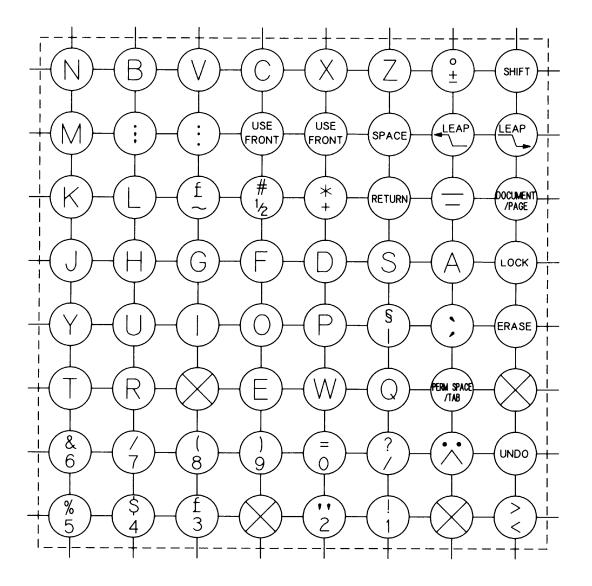
3-49

"RaskinDoc062_3-49.PICT" 218 KB 2000-02-25 dpi: 500h x 500v pix: 2357h x 3696v

Source: David T. Craig

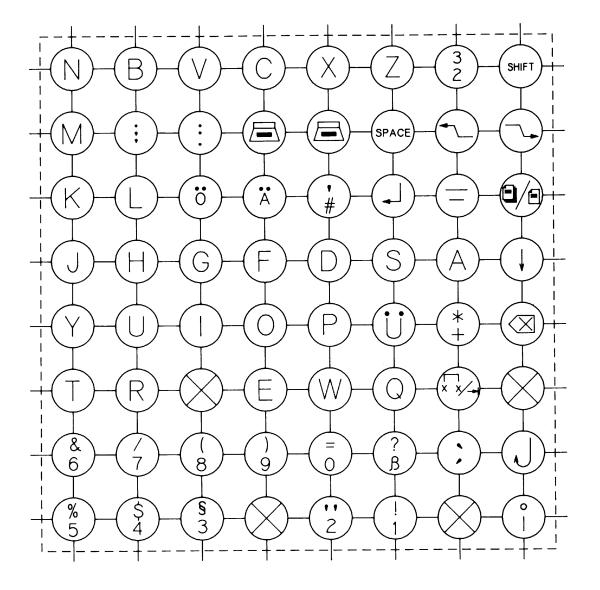
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7. Keyboard Circuit (Netherlands)



3-50

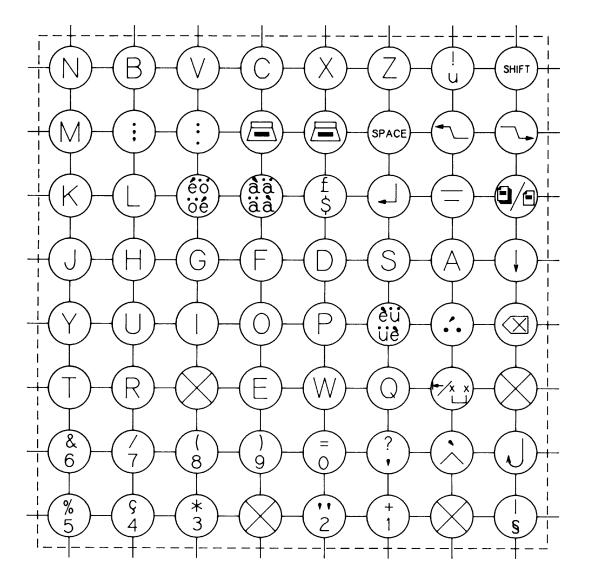
8. Keyboard Circuit (W. Germany)



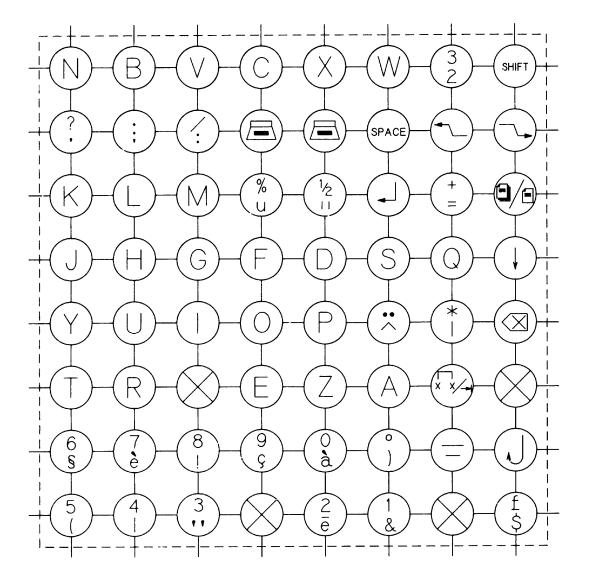
3-51

"RaskinDoc062_3-51.PICT" 218 KB 2000-02-25 dpi: 500h x 500v pix: 2357h x 3703v

9. Keyboard Circuit (Switzerland)



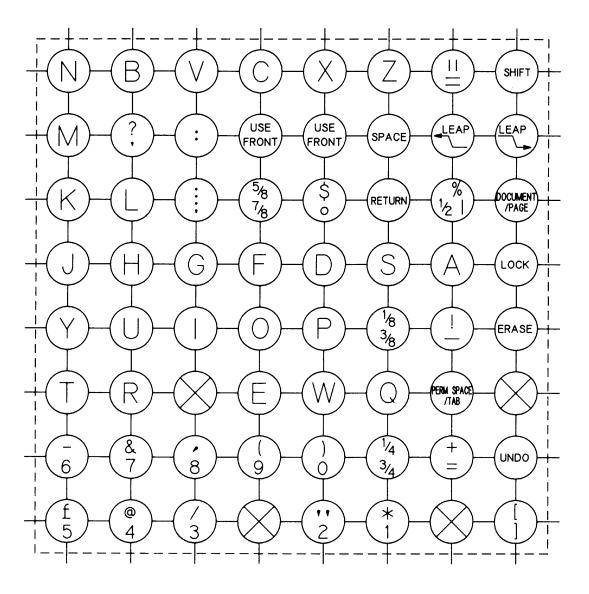
10. Keyboard Circuit (France)



3-53

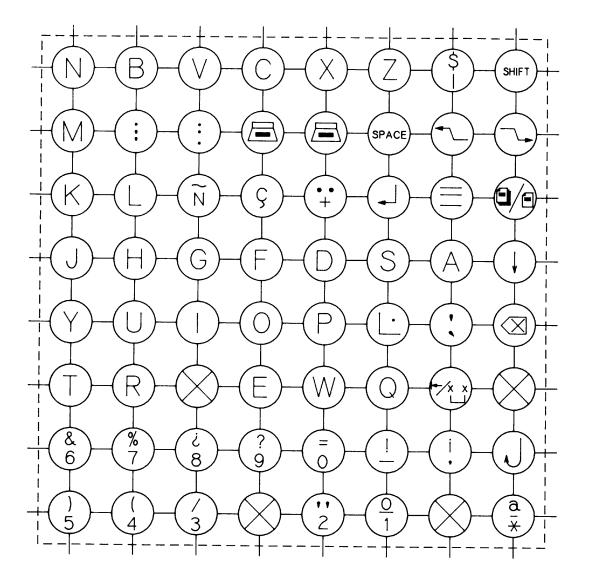
"RaskinDoc062_3-53.PICT" 214 KB 2000-02-25 dpi: 500h x 500v pix: 2350h x 3718v

11. Keyboard Circuit (U.K.)



3-54

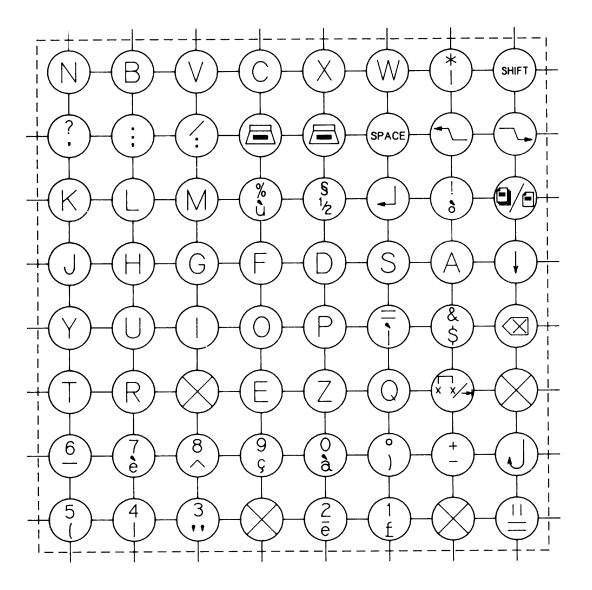
12. Keyboard Circuit (Spain)



3-55

"RaskinDoc062_3-55.PICT" 219 KB 2000-02-25 dpi: 500h x 500v pix: 2327h x 3739v

13. Keyboard Circuit (Italy)

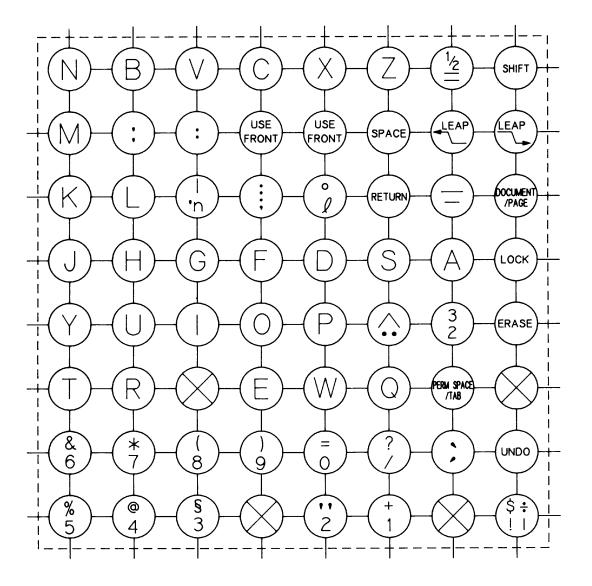


3-56

"RaskinDoc062_3-56.PICT" 218 KB 2000-02-25 dpi: 500h x 500v pix: 2335h x 3717v

Source: David T. Craig Page 0082 of 0187

14. Keyboard Circuit (S. Africa)



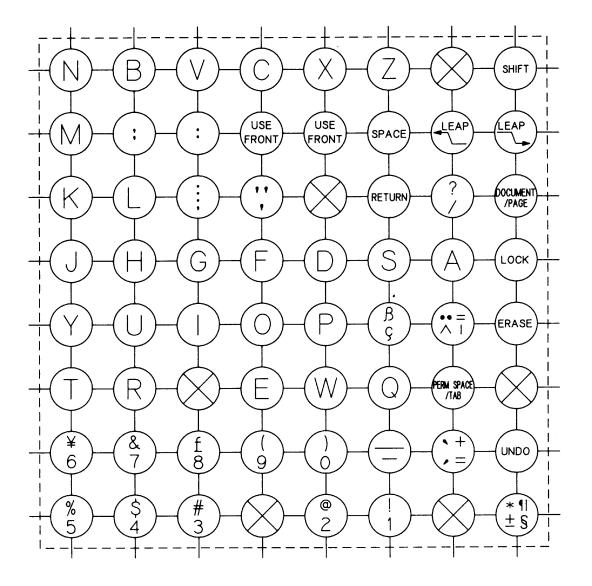
3-57

"RaskinDoc062_3-57.PICT" 221 KB 2000-02-25 dpi: 500h x 500v pix: 2335h x 3725v

Source: David T. Craig

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15. Keyboard Circuit (Japan)



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CHAPTERA

CHECK OPERATION

4-1.	Program Na	me		age 4-1	4-4. Check Po	ints for OK Re		age
4-2.	Check Rang		α		4-5. Concrete 4-6. ROM Ch	Examples of N	G Results 4	-12

"RaskinDoc062_4-00.PICT" 511 KB 2000-02-25 dpi: 500h x 500v pix: 2370h x 3637v

Source: David T. Craig

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4. CHECK OPERATION

Check programs are provided in the main unit system ROM. These programs are roughly divided into programs that make checks automatically (called self diagnosis) and programs that make checks by selecting the check items (called manual check). The manual check menu is displayed after self diagnosis is executed. The check items of each program are shown below.

4-1. Program Name

Program Name	Item	Required Item	Required Time	Field/ Work Shop
SELF DIAGNOSIS	① KB Country Code ② SYS ROM ③ SV-ROM ④ SYS RAM ⑤ SV-RAM	None	20 sec.	Field/ Work Shop
MANUAL	[1] Keyboard Check	None	_	
CHECK	[2] CRT Adjustment	None		
	[3] FDD Adjustment [1] Index Burst Position [2] Step In [3] Step Out [4] Track 00 [5] Track 00 Modulation [6] Track 79 Modulation	Alignment Disk Alignment Disk Alignment Disk Normal Disk Normal Disk Normal Disk		Work Shop
	[4] FDD Head Cleaning	Cleaning Disk	5 sec.	Field/ Work Shop
	[5] Format Disk	Normal Disk	20 sec.	
	[6] FDD Check	Normal Disk	_	

Note:

 \bigcirc \sim \bigcirc : Checked automatically in this order.

[1] \sim [6]: Menu selection items

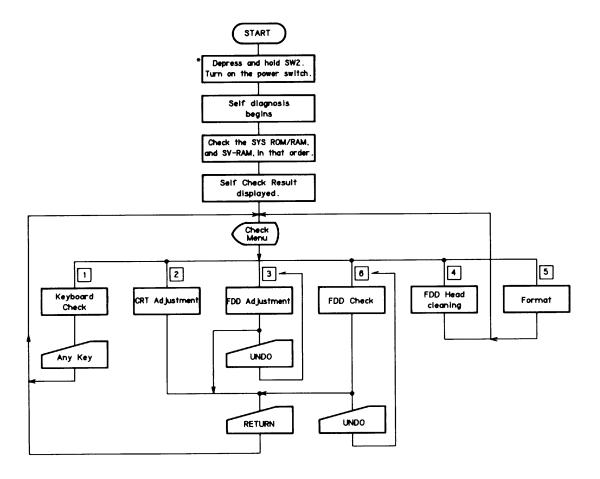
4-2. Check Range/Specification

Prog	ram Name	Check Range	Specification
SELF DIAG- NOSIS	① KB Country Code	Keyboard Unit CPU PCB Unit	① Reads the country code (including the test SW status) from the keyboard, then displays the code and the country name. Country Code: D4 ~ D0 are country codes. D7 is test SW status.
	② SYS ROM	CPU PCB Unit	② Checks the system ROM check sum.
	③ SV-ROM	CPU PCB Unit	③ Checks the SV-ROM check sum.
	④ SYS RAM	CPU PCB Unit	Performs system RAM read/write check. After checking, RAM No. is displayed. (00 ~ 33) If there is an error, the RAM No. is highlighted.
	⑤ SV-RAM	CPU PCB Unit	(5) Performs SV-RAM size check.
MANUAL CHECK	[1] Keyboard Check	Keyboard Unit CPU PCB Unit	[1] Displays the keyboard layout and country name, then you manually selects check items using the cursor. If an error occurs, the check item is highlighted and the cursor moves to the next check item. Returns to the check menu, if a selection is made after the last check item is checked.
	[2] CRT Adjustment	CRT/Power Supply Unit	[2] Five patterns are available for CRT/POW-ER SUPPLY unit adjustment. Adjustments are made using the H-pattern. (The other patterns are for factory use.)

4-2. Check Range/Specification

Prog	ram Name	Check Range	Specification
MANUAL CHECK	[3] FDD Adjustment	μFDD Unit	 [3] μFDD adjustment use Six selections are possible. Adjustments are made by combining these selections. [1] Index Burst Position Reads the disk by stepping from track 00 to track 40. [2] Step In Items to be input while Index Burst Position is executing. Seeks to track 39 and steps to track 40. [3] Step Out Items to be selected after Step In was performed. Seeks to track 41 and steps to track 40. [4] Track 00 Steps alternately between track 00 and track 06. [5] Track 00 Modulation Writes and reads Data = \$55 at track 00. [6] Track 79 Modulation Steps from track 00 to track 79 and writes and reads Data = \$55.
	[4] FDD Head Cleaning	CPU PCB Unit	Cleans the μFDD heads. Selects tracks at random and loads the heads for five seconds. After executing, returns to check menu.
	[5] Format Disk	μFDD Unit	Format a unformat disk to be a Read/Write disk. This format is the same as the CAT's, but ID No. for the CAT cannot be written on the check disk.
	[6] FDD Check	μFDD Unit	Performs FD read/write check. The following methods are available: 1. Step In (Read/write from track 00 to track 79) 2. Step In/Out (Outside edge and inside edge read/write alternately) 3. Fixed (Read/write fixed address)

1. Starting Procedure



*SW2: SW2 is on the rear panel of the main unit. It is turned on by inserting the tip of a pen into the small hole to the left of the CENTRO connector.

4-4

"RaskinDoc062_4-04.PICT" 104 KB 2000-02-25 dpi: 500h x 500v pix: 2355h x 3695v

Source: David T. Craig

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2. Operation Method

(1) Manual Check

Program Name	Operation Method	Interruption/ Cancellation
Keyboard Check	 When key 1 is pressed at the selection menu, the keyboard layout and country name are displayed. First, the leftmost key of the top row is highlighted. When a key is pressed, the next key is highlighted. Then, the highlighting moves from left to right and top to bottom. Detection of a wrong key generates a beep and the selection to the left remains highlighted. If a key is input after the last selection is tested, the display returns to the check menu. 	None
CRT Adjustment	 When key 2 is pressed at the selection menu, H pattern is displayed. Five patterns are available. The H pattern is the first pattern. The pattern changes each time the SPACE key is pressed. (1, 2, 3, 4, 5, 1, 2, 3,) The current pattern is reversed each time the UNDO key is pressed. (Black on white to white on black) When the RETURN key is pressed, the display returns to the check menu. 	Cancellation RETURN
FDD Adjustment	When key 3 is pressed at the selection menu, FDD Adjustment is displayed. The following are displayed: [1] Index Burst Position [2] Step In [3] Step Out [4] Track 00 [5] Track 00 Modulation [6] Track 79 Modulation	

Program Name	Operation Method	Interruption/ Cancellation
FDD Adjustment	An operation is performed by combining several items from items [1] to [6] according to the purpose for FDD adjustment. Operation is described below by purpose. To exit from this menu to the check menu, press the RETURN key.	Cancellation RETURN
	 A. Track Position Adjustment Insert an alignment disk into the drive. Press key 1 at the adjustment menu. (Index Burst Position selected.) (If there is no disk in the drive, a beep is generated and the selection is not performed.) Observe and adjust the waveform. Press key 2 and check the waveform. Press key 3 and check the waveform. Then, press the UNDO key (Quit) 	To interrupt the program at steps 3) and 4), press the UNDO key.
	 B. Index Burst Position Adjustment 1) Insert an alignment disk into the drive. 2) Press key 1 at the adjustment menu. (If there is no disk in the drive, a beep is generated and the selection is no performed.) 3) Observe and adjust the waveform. Then, press the UNDO key (Quit) 	Interruption UNDO
	 C. Track 00 Adjustment 1) Insert a normal disk into the drive. 2) Press key 4 at the adjustment menu. (If there is no disk in the drive, a beep is generated and the selection is not performed.) 3) Observe and adjust the waveform. Then, press the UNDO key (Quit) 	Interruption UNDO

Program Name	Ope	ration Method	Interruption/ Cancellation
FDD Adjustment	D. Modulation 1) Insert a normal disk 2) Press key 5 at the disk in the drive, a l tion is not performe 3) Check the waveform 4) Press key 6 and ch UNDO key.	Interruption UNDO	
FDD Check	1) When key 6 is pre the FDD check scre	ssed at the manual check menu, en is displayed.	
	[2]=Step In/Out [3] o start. o quit.	Recalibrate Count=0 Wr/R=Fixed	Rd Mode=RD
	moves to the item at	•	
	Item Sequence = Retry Count = Recalibrate Count = Wr/Rd Mode = Track = Sector =	Parameter [1]=Step In, [2]=Step In/out, [3]=Fixed [0-9] [0-9] [R]=Read only, [W]=Write Before Read Check [0-79] [0-9] the characters in [] are input.	
	_	parameters, insert a normal disk e protect tab must be removed)	

Program Name	Operation Method	Interruption/ Cancellation
FDD Check	 5) Start the program by pressing SPACE key. 6) "Pass:" is displayed. This shows the number of times FDD was checked. (Loop Count) 7) To interrupt the program, press UNDO key for about one second. The display returns to the check screen. 8) To exit from the FDD Check program, press the RETURN key. 	Interruption UNDO Cancellation RETURN
FDD Head Cleaning	 When the 4 is input at the check screen, the following message is displayed: Insert Cleaning Disk and press [SPACE] when ready. Press [RETURN] to return to main menu. Insert a cleaning disk into the drive. Press the SPACE key. Five second later, the display returns to the check screen. 	
Format	Format: Before executing the FDD Check, the disk to be used must be initialized the following program: 1) Remove the write-protect tab of a normal disk and insert the disk into the drive. 2) Press key 5 at the check menu. Twenty seconds later, initialization ends.	

4-4. Check Points for OK Results

Program Name	Check Point				
SELF DIAGNOSIS	At the	e end of the checks, the	e results are displ	layed as follows:	
	⊕	es			
		ROM Checksums:	True	Read	
	(2)→	SYS ROMO HIGH:	xxxxxxx	xxxxxxxx	
		SYS ROM0 LOW:	xxxxxxx	xxxxxxxx	
		SYS ROM1 HIGH:	xxxxxxx	xxxxxxx	
		SYS ROM1 LOW:	xxxxxxx	xxxxxxxx	
		SV ROM0:	xxxxxxx	xxxxxxxx	
		SV ROM1:	xxxxxxx	xxxxxxxx	
		SV ROM2:	xxxxxxx	xxxxxxx	
	 ③→ SYSTEM RAMs: 00 01 02 03 10 11 12 13 20 21 22 23 36 SV RAM: 00002000 ⑥→ Manual Check Menu: Select [1] [2] [3] [4] [5] [6] [1] Keyboard Check [2] CRT Adjustment [3] FDD Adjustment [4] FDD Head Cleaning [5] Format Disk [6] FDD Check ① The keyboard country code and country name are displayed. The names and codes are shown below. When D7 = High, Code = 80" is displayed. ⑥: United States 01: Canada 02: United Kingdom 03: 04: France 05: Denmark 06: Sweden 07: Japan 08: West Germany 09: Netherlands 0A: Spain 0B: Ita 0C: Latin America 0D: South Africa 0E: Switzerland ② The system ROM and SV-ROM check sum is displayed. To value is displayed as true value (true) and check result value 			12 13 20 21 22 23 30 31 32 33	
] [4] [5] [6]	
				when D7 = High, "Country ted Kingdom 03: Norway 07: Japan A: Spain 0B: Italy 0E: Switzerland mis displayed. The sum	

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4-4. Check Points for OK Results

Program Name		Che	eck Point		
SELF DIAGNOSIS 3 The RAM1 to RAM15 state and size are shown the table below.					
	IC No.	RAM No.	Installation state	Size	
	IC29 ~ IC26	RAM00 ~ RAM03	Standard	128 KB	
	IC25 ~ IC22	RAM10 ~ RAM13	Standard	128 KB	
	IC21 ~ IC18	RAM20 ~ RAM23	Optional RAM	128 KB	
	IC17 ~ IC14	RAM30 ~ RAM33	Uninstalled RAM		
	SV-RAM cl	necks RAM size. "0	00002000" is displayed	i (8 kbytes).	
MANUAL CHECK	not generated and ch	aracter highligh	ht-		
	[2] CRT adjustment The adjustment pattern does not use OK/NG messages.				
	1. H-patter	(Field/work shop)			
	2. #H-patt 3. Cross-pa	,	(Factory) (Factory)		
	4. Characte	,	(Factory)		
	5. All dot-p	factory)			

4-4. Check Points for OK Results

Program Name	Reading the result			
MANUAL CHECK	[3] FDD adjustment The adjustment program does not use OK/NG messages.			
	[6] FDD Check If all checks are OK, a message is not displayed. Note) When the disk is write-protected, checks are not performed. When an error occurs, a beep is generated and the following messa is displayed: Pass: 1 Track: 27 Sector: 6 Error: 6 Type: Write Error Error Mess Error code Sector No.			
	Loop Count Type "Write Error" or "Read Error" Error code: Error Code 1 No disk in drive 2 Seek error 3 Disk write protected 4 No headers found			
	5 Header CRC error 6 No data field found 7 Data CRC error 8 Disk verify error 9 Wrong header found			
	[4] FDD Head Cleaning Since this is a head-cleaning program, OK/NG messages are not displayed.			

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4-5. Concrete Examples of NG Results

Prograi	m Name	Concrete Examples of NG Results
SELF DIAGNOSIS	① KB Country Code	Country code is different.
	② SYS ROM and SV-ROM	The true value is different from the read value.
	③ RAM and SV-RAM	"Error" is displayed.
		RAM size is different.
MANUAL CHECK	[1] Keyboard	Keys on the key layout are highlighted. (Some or all of the keys)
		Even if a key is pressed, it is not input.

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4-5. Concrete Examples of NG Results

Cause of Fault	Action	Remarks
Defective Diode (CC-Line) Poor Cable	Replace the keyboard unit.	Keyboard Check
System ROM or SV-ROM, defective	Replace the CPU PCB unit.	Replace the ROM chip or observe the waveform.
RAM Chip, defective Gate Array #1 or #2	Replace the CPU PCB unit.	Replace the RAM chip and Gate Array #1 or #2.
RAM chip, defective	Replace the CPU PCB unit.	Replace the RAM chip.
Key switch, defective Diode, defective	Replace the keyboard unit.	Keyboard check
Poor Cable, Gate Array #3, defective	Replace the keyboard unit Replace the CPU PCB unit.	Cable check Replace the Gate Array #3.

Program Name		NG symptoms	OK Examples
		Display/Printing	Display/Printing
MANUAL CHECK	[2] CRT Adjustment	The CRT display is vertically long or short. The lengths of the characters at the top and bottom of the CRT are different. HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	H Patterns of uniform length are displayed at the top and bottom. HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
		The CRT display is slanted.	H Patterns of uniform length are displayed at the top, and bottom, left, and right. HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
		ЧИНИННИННИ НИНИННИННИ НИНИННИННИ ИНИНИННИН	ННННННННН
		The CRT display drifts horizontally or vertically.	H Patterns of length are displayed uniformly at the top, bottom, left, and right.

4-14

Cause of Fault	Action	Remarks
Vertical amplitude maladjustment Vertical linearity maladjustment	Replace the CRT/Power supply unit.	Adjust the vertical amplitude VR. MATSUSHITA: R418 GOLD STAR: VR603 Vertical linearity maladjustment MATSUSHITA: R417 GOLD STAR: VR604
CRT internal deflection coil maladjustment	Replace the CRT/Power supply unit.	Adjust the deflection coil.
CRT internal centering magnet maladjustment	Replace the CRT/Power supply unit	Adjust the centering magnet.
Horizontal synchronization maladjustment Vertical synchronization maladjustment	Replace the CRT unit.	Adjust the horizontal/vertical synchronization VR. MATSUSHITA: R528/R416 GOLD STAR: VR702/VR601
Defective HSYNC, VSYNC signal	Replace the CPU PCB unit.	Check the monitor signal.

4-15

"RaskinDoc062_4-15.PICT" 164 KB 2000-02-25 dpi: 500h x 500v pix: 2347h x 3710v

Program Name		NG symptoms	OK Examples
		Display/Printing	Display/Printing
MANUAL [2] CRT Adjustment		No display on the CRT.	H Patterns are displayed. ННИННИННИННИННИННИННИННИННИННИННИННИННИ
		The CRT display is too bright or too dark.	
		The CRT display is not definite.	H Patterns can be clearly seen.
		The CRT displays only one vertical line. The CRT displays only one horizontal line. [CRT monitor] [CRT monitor]	H Pattern are displayed. HHHHHHHHHHH HHHHHHHHHH HHHHHHHH
		The CRT display is misaligned vertically. The CRT display is misaligned horizontally.	H Patterns are displayed in the center of the CRT at the top and bottom, and at the left and right.
		НИНИННИННИН НИНИНИННИНН НИНИНИННИНН НИНИНИННИН	HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

4-16

"RaskinDoc062_4-16.PICT" 203 KB 2000-02-25 dpi: 500h x 500v pix: 2369h x 3696v

Source: David T. Craig

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Cause of Fault	Action	Remarks
Defective CRT internal circuit	Replace the CRT/Power supply unit.	Check the video circuit.
Defective CRT cable	Replace the CRT/Power supply unit.	Check the CRT Cable.
Heater is disconnected.	Replace the CRT/Power supply unit.	Check the monitor signal.
Defective CRTC/VRAM circuit.	Replace the CPU PCB unit.	Check the CRT/VRAM circuit.
CRT external intensity VR maladjustment. CRT internal intensity VR maladjustment.	Adjust the VR. Replace the CRT/Power supply unit.	Adjust the intensity VR. MATSUSHITA: R530 GOLD STAR: VR703
Defective focusing VR Contrast maladjustment.	Replace the CRT/Power supply unit.	Adjust the focus VR. MATSUSHITA: R530 GOLD STAR: VR703 Adjust the contrast VR. MATSUSHITA: GOLD STAR: VR301
Defective CRT internal circuit.	Replace the CRT/Power supply unit.	Check the CRT internal circuit.
Defective video signal	Replace the CPU PCB unit.	Check the monitor circuit.
CRT internal centering magnet maladjustment	Replace the CRT/Power supply unit.	Adjust the CRT internal centering magnet.

4-17

"RaskinDoc062_4-17.PICT" 193 KB 2000-02-25 dpi: 500h x 500v pix: 2362h x 3717v

D	Ma	NG symptoms	OK Examples	
Prograi	m Name	Display/Printing	Display/Printing	
MANUAL CHECK	[2] CRT Adjustment	1 -	center of the CRT. The widths of the displayed characters are the	
		иннининны нинининны кининининны нининины нининины нининины нининины	НИННИННИН НИНИННИННИН НИНИННИННИН НИНИННИН	

Program Name		Concrete Examples of NG Results
MANUAL CHECK	[6] FDD Check	Read Error
		Write Error
		The FDD is not starting.

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4-5. Concrete Examples of NG Results

Cause of Fault	Action	Remarks
Horizontal amplitude maladjustment	Replace the CRT/Power supply unit.	Adjust the horizontal amplitude VR. MATSUSHITA: L502 GOLDSTAR:

Cause of Fault	Action	Remarks
FDD or Disk CPU PCB (Gate Array #3)	Replace the FDD unit or disk. Replace the CPU PCB unit.	
FDD or Disk CPU PCB (Gate Array #3)	Replace the FDD unit or disk. Replace the CPU PCB unit.	
The disk is write-protected.	Remove the protect.	

4-19

"RaskinDoc062_4-19.PICT" 125 KB 2000-02-25 dpi: 500h x 500v pix: 2370h x 3710v

4-6. ROM Check Sum Table

		ROM NAME	CHECK SUM	DATE
IC NO.	ROM NO.	& VERSION NO.	Hexadecimal	MM/DD/YY
IC2	ROM0L	B91U01	\$ 9F1F	6/22/87
IC2	ROM0L		\$	/ /
IC2	ROM0L		\$	1, 1
IC2	ROM0L		\$	/ /
IC4	ROM0H	B91U02	\$ FF0A	6/22/87
IC4	ROM0H		\$	/ /
IC4	ROM0H		\$	/ /
IC4	ROM0H		\$	/ /
IC3	ROMIL	B91U03	\$ 79BF	6/22/87
IC3	ROMIL		\$	/ /
IC3	ROMIL		\$	/ /
IC3	ROMIL		\$	/ /
IC5	ROM1H	B91U04	\$ 03FF	6/22/87
IC5	ROM1H		\$	/ /
IC5	ROM1H		\$	/ /
IC5	ROM1H		\$	/ /

Table 4-1

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PARTS EATRLOS

The first the second se	Page
How to Use Parts Listi ~ ii	C-12. Keytops (DENMARK) C-29 ~ C-30
A. Assembly Location Diagram A-1	C-13. Keytops
B. Assemblies	(SWEDEN/FINLAND) C-31 ~ C-32
C-1. CPU PCB Unit	C-14. Keytops
C-2. CRT/Power Supply Unit	(NETHERLANDS) C-33 ~ C-34
(MATSUSHITA)	C-13. Keytops
C-3. Power Supply Unit C-9 - C-10	(W. GERMANY) C-35 ~ C-36
C4. CRT/Power Supply Unit	C-16. Keytops
(GOLDSTAR) C-11 ~ C-12	(SWITZERLAND) C-37 ~ C-38
C-5. CRT/Power Supply	C-17, Keytops (FRANCE) C-39 ~ C-40
PCB Assembly C-13 ~ C-16	C-18. Keytops (U.K.) C-41 ~ C-42
C-6. MICRO FDD Unit C-17 - C-18	C-19. Keytops (SPAIN) C-43 ~ C-44
C-7. Keyboard Unit C-19 ~ C-20	C-20. Keytops (ITALY) C-45 ~ C-46
C-8. Keytops (USA/CANADA/ASIA/	C-21. Keytops (S.AFRICA) C-47 ~ C-48
OCEANIA) C-21 ~ C-22	C-22. Keytops (JAPAN)
C-9. Keytops (QUEBEC) C-23 ~ C-24	D. Screws
C-10. Keytops (LATIN) C-25 ~ C-26	E. Tools
C-11. Keytops (NORWAY) C-27 ~ C-28	F. Numerical Index

"RaskinDoc062_5-00.PICT" 687 KB 2000-02-25 dpi: 500h x 500v pix: 2377h x 3572v

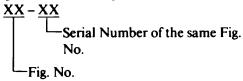
Source: David T. Craig Page 0106 of 0187

HOW TO USE PARTS LIST

The Parts List is classified as follows:

- A. ASSEMBLY LOCATION DIAGRAM
- B. ASSEMBLIES (Exploded View)
- C. PARTS LOCATION
 DIAGRAM by FRU and ASSEMBLY
- D. SCREWS
- E. TOOLS
- F. NUMERICAL INDEX

Pages of Parts Catalog indicate as follows:



ASSEMBLY LOCATION DIAGRAMS

These diagrams show the locations of major assemblies of the Typewriter and Figure No.

FINDING A PARTS NUMBER

Refer to the Assembly Location Diagram and find the Figure Number of the assembly of interest. Turn to the page(s), locate the parts on the exploded view, and find its Key Number. Refer to the Parts List on the page facing the exploded view and find the Key Number, Parts Number and Quantity required for your type of machine.

Because the parts commonly used for all products such as screw, nut, washer, retaining ring and pin are indicated on the illustrations by 3-digit key numbers which consist of one alphabetical digit and two numerical digits, the Parts numbers should be referred to D. SCREWS.

PARTS LIST PAGES

The Parts List pages contain the following columns and information.

(1) Figure and Key Number Column
The first column shows the Figure
Number of the illustration corresponding to the Parts List, and the Key
Number that identifies the parts on the

illustration.

(2) Parts Number Column

The second column shows the Parts Number for the parts. This Number must be used when ordering replacement parts or assemblies.

(3) Rank Column

Parts marked "N" are service parts, but are not stocked items. They are produced on a special-order basis. Parts marked "X" are not service parts, therefore they are not available.

(4) Quantity Column

The quantity shown in this column is the number of parts used in the figure. However, the quantity listed for an assembly indicates the number of that assembly per machine.

The letters in this column indicate as follows:

RF Parts listed up for reference
AR Parts of which quantity can
not be specified or used according to necessary quantity

(5) Description Column

The description column lists the parts names in English that should be used when ordering the parts. Major specifications and model numbers of electrical parts are sometimes described at the end of the name.

(6) Remarks Column

The parts marked * are never used before and they are newly stocked as service parts.

(7) Country Code Column

The country code lists available parts by country of origin.

When ordering the parts, refer to the code.

i

"RaskinDoc062_5-01.PICT" 310 KB 2000-02-25 dpi: 500h x 500v pix: 2333h x 3710v

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SCREWS

This table covers all the parts (including options) commonly used for all products such as screw, nut, washer, retaining ring and pin. They are indicated in a three-digit form on the illustration with an alphabetical character at the head, different from general key number.

Be careful that these parts are not included in the parts list corresponding to the illustrations.

NUMERICAL INDEX

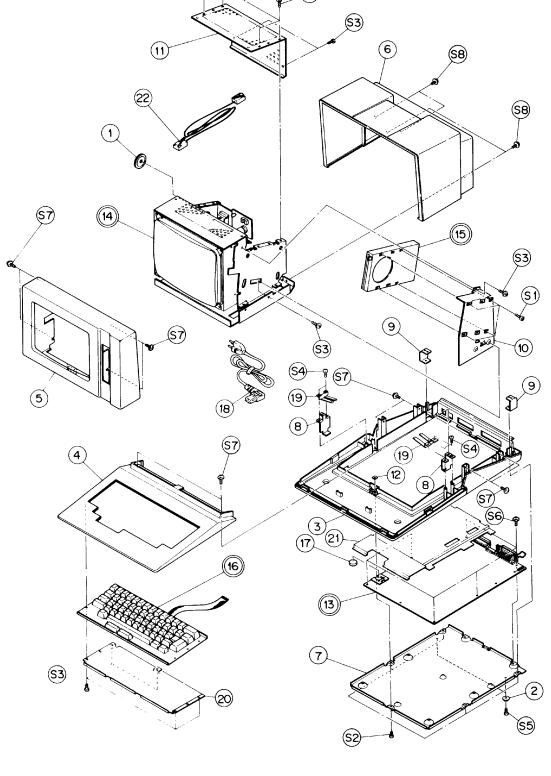
There is a Numerical Index at the end of this catalog. It lists in numerical order every Parts Number contained in the Parts List.

In the left section of the Numerical Index Table are Parts Number, and Figure Number and Key Number are shown in the right section.

Be careful that the Index does not include the parts numbers listed in the Screw Table.

Jef Raskin Document # 062 -- Canon Cat Computer Repair Manual A. ASSEMBLY LOCATION DIAGRAM CRT/POWER SUPPLY UNIT (C2) (C-3) (C-4) (C-5) MICRO FDD UNIT (C-6) CPU PCB UNIT KEYBOARD UNIT (C-7) A-1 "RaskinDoc062_A-01.PICT" 185 KB 2000-02-25 dpi: 500h x 500v pix: 2333h x 3703v

Source: David T. Craig Page 0109 of 0187



B-1

"RaskinDoc062_B-01.PICT" 242 KB 2000-02-25 dpi: 500h x 500v pix: 2370h x 3710v

Source: David T. Craig Page 0110 of 0187

B. ASSEMBLIES [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

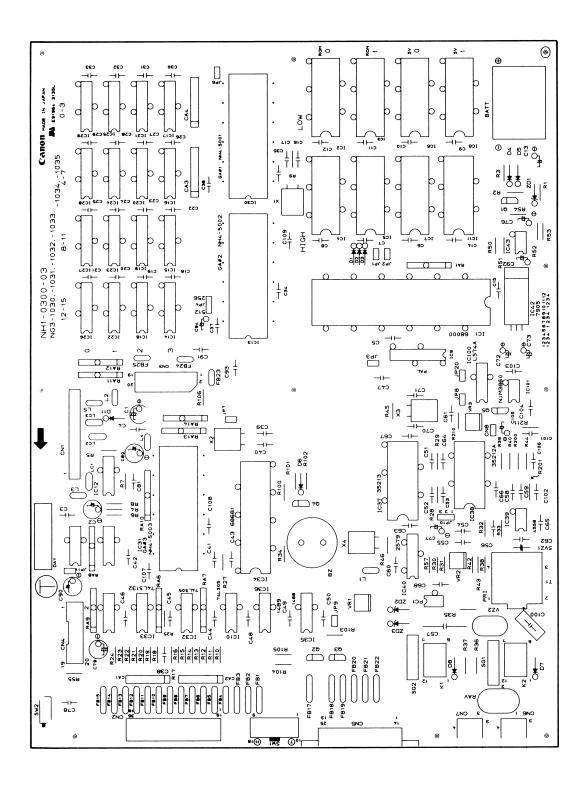
E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE F: LATIN(230V) J: NETHERLANDS N: U.K. G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY A: USA/CANADA B: ASIA C: OCEANIA Q: S.AFRICA R: JAPAN

D: QUEBEC

FIGURE	PART NUMBER	rank	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE
KEY NO.						ABCDEFGHIJKLMNOPQR
B B B B B B B B B B B B B B B B B B B	NA1-0868-000 NA1-3834-000 NA1-3834-000 NA1-5152-000 NA1-5152-000 NF1-1103-000 NF1-1105-000 NA1-5154-000 NA1-5155-000 NA1-5155-000 NA1-5155-000 NA1-5155-000 NA1-5155-000 NA1-5159-000 NA1-5159-000 NA1-5159-000 NA1-5160-000 NA3-1031-000 NG3-1031-000 NG3-1032-000 NG3-1034-000 NG3-1034-000 NG3-1035-000 NS5-0661-000 NS5-0663-000 NS5-0663-000 NS5-0663-000 NS5-0699-000 NS5-0	2272222222222222222XXXXXXXXXXXXXXXXXXX	121111112211111111111111111111111111111	KNOB, VARIABLE RESISTOR RUBBER FOOT BASE CASE BASE CASE (UL) KEYBOARD COVER ASSEMBLY KEYBOARD COVER ASSEMBLY ESCUTCHEON ESCUTCHEON ESCUTCHEON CRT COVER (UL) BASE PLATE EARTH PLATE B MOUNTING PLATE, FDD SHIELD PLATE, CRT PLATE NUT CPU PCB UNIT KEYBOARD SHELD PLATE CARTH SHELD PLATE COVER	**************************************	ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. B.EF.H.JKLMNOPQR. A.CD.G.I B.EF.H.JKLMNOPQR. A.CD.G.I B.EF.H.JKLMNOPQR. A.CD.G.I B.EF.H.JKLMNOPQR. A.CD.G.I ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR

B-2

C-1. CPU PCB UNIT



C-1

"RaskinDoc062_C-01.PICT" 1058 KB 2000-02-25 dpi: 1200h x 1200v pix: 5547h x 8869v

Source: David T. Craig Page 0112 of 0187

C-1. CPU PCB UNIT [COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA B: ASIA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN

C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN
D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE	DAOT AUMOED	DANII	0'77	OCCONTOTION.	REMARKS	COUNTRY CODE
KEY NO.	PART NUMBER	rank	Q'TY	DESCRIPTION	HEMANNO	ABCDEFGHIJKLMNOPQR
C-1 C-1 BATT C-1 BZ C-1 BZ C-1 C 1 C-1 C 2 C-1 C 3 C-1 C 3	NH1-0300-000 NF1-0878-000 WR1-0039-000 WR1-0049-000 VC1-2251-227 VC1-2251-107 VC5-4450-105 WA8-0135-000	x	1 1 1 1 1 1 1	CPU P.C. BOARD BATTERY BOX ASSEMBLY BUZZER PKM24-4A0 BUZZER, CB 20PA ALUMINUM CAP. 220UF 25V ALUMINUM CAP. 100UF 25V FILM CAP. 1UF 50V VARISTOR MFC 125AX333M	* *	ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. BC.EFGHIJKLMNOPQ. A.D. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. BC.EFGHIJKLMNOPQR. ACO. R.
C-1 C 12 C-1 C 4 C-1 C 5	VC2-3252-105 VC9-1428-000		1 8	TANTALUM CAPACITOR 1UF 25V CERAMIC CAP. 0.1UF 25V -25/80	*	.BC.EFGHIJKLMNOPQBC.EFGHIJKLMNOPQ
C-1 C 12 C-1 C 13 C-1 C 13 C-1 C 14 C-1 C 15 C-1 C 15 C-1 C 16 C-1 C 16 C-1 C 17 C-1 C 17 C-1 C 18	VC1-2161-226 VC5-3590-476 VC9-1428-000 WA8-0135-000 VC9-1428-000 WA8-0135-000 VC5-1700-100 VC5-3460-330 VC5-1700-100 VC5-3460-330 VC9-1428-000		1 1 1 1 1 1 1 1 1 1 1 1 20	ALUMINUM CAP. 22UF 16V ALUNIMUM CAP. 47UF 10V CERAMIC CAP. 0.1UF 25V -25/80 VARISTOR MFC 125AX333M CERAMIC CAP. 0.1UF 25V -25/80 VARISTOR MFC 125AX333M CERAMIC CAP. 10PF 50V -25/85 CERAMIC CAP. 10PF 50V -25/80 CERAMIC CAP. 10PF 50V -25/80 CERAMIC CAP. 33PF 50V -25/80 CERAMIC CAP. 33PF 50V -25/80	* *	.BC.EFGHIJKLMNOPQ
C-1 C 37 C-1 C 19 C-1 C 20 C-1 C 21 C-1 C 23 C-1 C 24 C-1 C 25 C-1 C 27 C-1 C 28 C-1 C 29 C-1 C 31	WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000		1 1 1 1 1 1 1 7	VARISTOR MFC 125AX333M		A. D. R. R. R. A. D. R. R. R. A. D. R. R. R. R. R. A. D. R.
C-1 C 37 C-1 C 38 C-1 C 40 C-1 C 41	VC5-1700-101 VC5-8010-050 VC9-1428-000		1 1 10	CERAMIC CAP. 100PF 50V -25/85 CERAMIC CAP. 5PF 50V -25/85 CERAMIC CAP. 0.1UF 25V -25/80	*	ABCDEFGHIJKLMNOPQRBC.EFGHIJKLMNOPQBC.EFGHIJKLMNOPQ
C-1 C 50 C-1 C 41	WA8-0135-000		10	VARISTOR MFC 125AX333M		ADR
C-1 C 50 C-1 C 51 C-1 C 52 C-1 C 53 C-1 C 54 C-1 C 55 C-1 C 56	VC9-1428-000 VC5-1710-471 VC9-1428-000 VC9-1428-000 VC9-1428-000 VC5-1710-102		1 1 1 1	CERAMIC CAP. 0.1UF 25V -25/80 CERAMIC CAP. 470PF 50V -25/85 CERAMIC CAP. 0.1UF 25V -25/80 CERAMIC CAP. 0.1UF 25V -25/80 CERAMIC CAP. 0.1UF 25V -25/80 CERAMIC CAP. 1000PF 50V -25/85	* * * * * * *	ABCDEFGHIJKLMNOPQRRRABCDEFGHIJKLMNOPQRABCDEFGHIJKLMNOPQRABCDEFGHIJKLMNOPQRABCDEFGHIJKLMNOPQRR

C-1. CPU PCB UNIT [COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:
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B	FIGURE						COUNTRY CODE
C-1 C 57 C-1 C 58 VCS-1710-471 C-1 C 58 VCS-1710-472 C-1 C 50 WA8-D135-D00 C-1 C 50 WA8-D135-D00 C-1 C 57 C-1 C 57 C-1 C 58 VCS-1720-072 C-1 C 57 C-1 C 58 VCS-1880-222 C-1 C 77 C-1 C 58 VCS-1700-200 C-1 C 71 VCS-1700-200 C-1 C 73 VC1-2251-107 C-1 C 74 VC1-2251-107 C-1 C 77 VC1-2161-107 C-1 C 78 VC1-2251-107 C-1 C 77 VC1-2161-107 C-1 C 78 VC1-2251-107 C-1 C 78 VC1-225		Part Number	RANK	Q'TY	DESCRIPTION	REMARKS	
C-1 C 58	KET NU.						ABCUEFGHIJKLMNUPGR
C-1 C 59						-	
C-1 C 62						l -	
C-1 C 67						*	
C-1 C 67 C-1 C 67 C-1 C 68 C-1 C 77 C-1 C 73 C-1 C 73 C-1 C 77 C-1 C 78 C-1 C 78 C-1 C 77 C-1 C 78 C-1 C 77 C-1 C 78 C-1 C 77 C-1 C 78 C-1	1						
C-1 C 67		1420-000		ľ	OCHAMIC CAP. 0.10F 250 -25780	1	-DU-EFGHIJKLMNUPQ
C-1 C 678 C-2 C 70 C-1 C 70 C-	C-1 C 67						
C-1 C 68	1	WA8-0135-000		6	VARISTOR MFC 125AX333M		ADRR
C-1 C 70							
C-1 C 70		VC5-1680-222		1	CERAMIC CAP. 2200PF 50V -25/85		AD
C-1 C 71						*	
C-1 C 73	C-1 C 71	VC5-1700-200		1		*	
C-1 C 76						*	
C-1 C 77						*	
C-1 C 78						l	
C-1 C 79						*	
C-1 C 80						*	
C-1 C 81	1					"	
C-1 C 90	C-1 C 81	WA8-0135-000		1	VARISTOR MFC 125AX333M		
C-1 C 92				1			
C-1 C 93							1
C-1 C 94							
C-1 C100						*	
C-1 C101	1						
C-1 C102						*	
C-1 C107		VC5-1710-102		1	CERAMIC CAP. 1000PF 50V -25/85	*	
C-1 C109	1						
C-1 CA 1							
C-1						ı.	
C-1							
C-1 CA 4]			•	1
C-1 CN 1							
C-1 CN 3					PIN CONNECTOR 9PIN		ABCDEFGHIJKLMNOPQR
C-1 CN 4 VS1-0714-020							
C-1 CN 5	1 1	,					The state of the s
C-1 CN 5		1				*	
C-1 CN 6							
C-1 CN 7	1					*	
C-1 D 2				1	CONNECTOR 6PIN (MODULAR JACK)	*	AD
C-1 D 3							
C-1 D 4							
C-1 D 5			ļ				ABODEFCHIJKLMNUPUK
C-1 D 6				1			
C-1 D 7			ł				
C-1 D 10 WA1-0444-000 1 DIODE EK03 BC.EFGHIJKLMNOPQ	1 1		1				
1				1			
C-1							
	C-1 D 11	WA1-0068-000		1	D100E 1S2075K	*	ABCUEFGHIJKLMNUPGR

C-1. CPU PCB UNIT [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

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D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE &	PART NUMBER	rank	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE
KEY NO.						ABCDEFGHIJKLMNOPQR
C-1 FB 1	WE8-0012-000		23	DATA LINE FILTER		.BC.EFGHIJKLMNOPQ
C-1 FB 23 C-1 FB 1	WE8-0060-000		15	FERRITE BEAD		AD
C-1 FB 15 C-1 FB 17	WE8-0060-000		8	FERRITE BEAD		ADR
C-1 FB 25 C-1 FB 25 C-1 FB 26 C-1 IC 1 C-1 IC 2 C-1 IC 3 C-1 IC 3 C-1 IC 4 C-1 IC 5 C-1 IC 5 C-1 IC 6 C-1 IC 6 C-1 IC 6 C-1 IC 7 C-1 IC 7 C-1 IC 7 C-1 IC 7 C-1 IC 8 C-1 IC 10 C-1 IC 11 C-1 IC 11 C-1 IC 12 C-1 IC 12 C-1 IC 12 C-1 IC 12 C-1 IC 13	WE8-0012-000 WE8-0012-000 WA3-1847-000 NH7-0097-000 NH7-0099-000 WA9-0058-000 NH7-0098-000 NH7-0100-000 WA9-0058-000 NH7-0684-000 NH7-0724-000 NH7-0724-000 NH7-0813-000 NH7-0813-000 NH7-0813-000 NH7-1019-000 WA9-0058-000 NH7-1021-000 WA9-0058-000 NH7-1021-000 WA9-0058-000 NH7-1021-000 WA9-0058-000 WA3-03177-000 WA9-0058-000 WA3-0434-000 NH7-1021-000 WA9-0058-000 WA9-0067-000 WA9-0067-000 WA9-0067-000 WA9-0067-000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DATA LINE FILTER DATA LINE FILTER MOS LSI MCS8000P8(CPU) MOS LSI MEM27C512-25(E91U**) IC SOCKET 28PIN MOS LSI MEM27C512-25(E93U**) IC SOCKET 28PIN MOS LSI MEM27C512-25(E92U**) IC SOCKET 28PIN MOS LSI MEM27C512-25(E94U**) IC SOCKET 28PIN MOS LSI MEM27C512-25(E94U**) IC SOCKET 28PIN MOS LSI HN62301A-C11(MASK ROM) MOS LSI HN62301APD28 MOS LSI HN62301APD28 MOS LSI HN62301APD29 MOS LSI MEB31000-15P-263 IC SOCKET 28PIN MOS LSI MEB31000-15P-264 IC SOCKET 28PIN MOS LSI MEB31000-15P-265 IC SOCKET 8PIN ITL IC HD74LS05P MOS LSI UPD4364C-15LL (RAM) TTL IC SNT412EN MOS LSI UPD65012 CW-191 IC SOCKET 8P IC SOCKET 8P	* * * * * * * * * * * * *	.BC.EFGHIJKLMNOPQBC.EFGHIJKLMNOPQ. ABCDEFGHIJKLMNOPQR. A.D. R. A.D. R. A.D. R. ABCDEFGHIJKLMNOPQR. A.D. R. A.D. R. A.D. R. ABCDEFGHIJKLMNOPQR. A.D. R. A.D.
C-1 IC 21 C-1 IC 22	WA9-0067-000 WA3-3023-000		8	IC SOCKET 8P MOS LSI MB81464-15 (RAM)		ABCOEFGHIJKLMNOPQR
C-1 IC 29 C-1 IC 30 C-1 IC 31 C-1 IC 32 C-1 IC 33 C-1 IC 34 C-1 IC 35 C-1 IC 36 C-1 IC 37 C-1 IC 38 C-1 IC 39	NH4-5001-000 NH4-5003-000 WA3-0894-000 WA3-1197-000 WA3-3048-000 WA4-0722-000 WA4-0723-000 WA4-0770-000 WA4-0769-000 WA4-0808-000		1 1 1 1 1 1 1 1 1	MOS LSI UPD65013 CW-276 MOS LSI UPD65012 CW-141 TTL IC H074LS05P TTL IC H074LS132P MOS LSI MC68681(DUART) IC UA1488PC IC UA1489APC MOS LSI S35213 MOS LSI S35212A IC MPC 4558C	* * * * * * * * * * * * * * * * * * * *	ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. A.D. R. A.D. R.

C-1. CPU PCB UNIT [COUNTRY CODE AS SHOWN BELOW]

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FIGURE	DADT NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE
& KEY NO.	PART NUMBER	NANK	u II	DESCRIPTION	ncmanno	ABCDEFGHIJKLMNOPQR
C-1 IC 40	WA4-0771-000		1	MOS LSI S2579	*	ADR
C-1 IC 42	WA4-0320-000		1	IC UPC7905H	*	ABCDEFGHIJKLMNOPQR
C-1 IC 43 C-1 IC 44	WA4-0626-000 WA3-0343-000		1 1	IC MB3771-M TTL IC 74LS38N	*	.BC.EFGHIJKLMNOPQ
C-1 IC 45	WA3-0881-000		li	TTL IC HD74LS14P		.BC.EFGHIJKLMNOPQ
C-1 IC 46	WA3-0343-000		1	TTL IC 74LS38N		.BC.EFGHIJKLMNOPQ
C-1 IC100	WA3-0137-000		1	TTL IC SN74LS74A		ADR
C-1 K 1	WB1-0135-000		1	RELAY 66E-134P-US	*	ADR
C-1 K 2 C-1 L 1	W81-0135-000 WE2-0068-000		1 1	RELAY 66E-134P-US CHOKE COIL 1UH	*	ADRRABCDEFGHIJKLMNOPQR
C-1 2	WE2-0068-000			CHOKE COIL 10H		.BC.EFGHIJKLMNOPQ
C-1 L 2	WE8-0060-000		1	FERRITE BEAD		ADRR
C-1 L 3	WE2-0068-000		1	CHOKE COIL 1UH		.BC.EFGHIJKLMNOPQ
C-1 L 3	WE8-0060-000		1	FERRITE BEAD		ADRR.
C-1 L 4 C-1 L 5	WE2-0068-000		1	CHOKE COIL 1UH		ABCDEFGHIJKLMNOPQR
C-1 L 5 C-1 LC 1	WE8-0060-000		1	FERRITE BEAD FERRITE BEAD		ADRRRRRR
C-1 LC 2	WE8-0060-000		li	FERRITE BEAD		A. D
C-1 LC 3	WE8-0060-000		1	FERRITE BEAD		ADRR
C-1 PC 1	WG8-0150-000		1	RING DETECTOR PC733H	*	ADR
C-1 Q 1	WA2-0876-000		1	TRANSISTOR RN2201		.BC.EFGHIJKLMNOPQ
C-1 Q 1 C-1 Q 2	WA2-0882-000			TRANSISTOR RN2206 TRANSISTOR RN1201	*	AD
C-1 Q 3	WA2-0796-000		li	TRANSISTOR RN1201	*	AD
C-1 Q 4	WA2-0796-000		li	TRANSISTOR RN1201	*	ABCDEFGHIJKLMNOPQR
C-1 R 1	VR1-1143-332		1	RESISTOR 3.3K OHM 1/4W	*	.BC.EFGHIJKLMNOPQ
C-1 R 1	VR1-1143-473		1 1	RESISTOR 47K OHM 1/4W	*	ADRR.
C-1 R 2 C-1 R 3	VR1-1143-473 VR1-1143-102	1	1 1	RESISTOR 47K OHM 1/4W RESISTOR 1K OHM 1/4W	*	ABCOEFGHIJKLMNOPQRABCOEFGHIJKLMNOPQR
C-1 R 3	VR1-1143-102		;	RESISTOR 330 OHM 1/4W	•	.BC.EFGHIJKLMNOPQ
C-1 R 4	VR5-0043-300		Ιi	METAL RESISTOR 330 OHM 1/4W		A. D
C-1 R 5	VR1-1143-102		1	RESISTOR 1K OHM 1/4W	*	.BC.EFGHIJKLMNOPQ
C-1 R 5	VR5-0041-001		1 1	METAL RESISTOR 1K OHM 1/4W		ADRR
C-1 R 6	VR1-1143-470 VR5-0044-709	•	1	RESISTOR 47 OHM 1/4W METAL RESISTOR 47 OHM 1/4W		.BC.EFGHIJKLMNOPQ A.D. R.
C-1 R 7	VR1-1143-102		;	RESISTOR 1K OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-1 R 8	VR1-1143-102	ľ	Ιi	RESISTOR 1K OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-1 R 9	VR1-1143-105		1	RESISTOR 1M OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-1 R 10	VR1-1143-100		9	RESISTOR 10 OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-1 R 18	[
C-1 R 18	VR1-1143-101		6	RESISTOR 100 OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
5	*** ****	1	ľ	11.0101011 100 Gilli 17411	•	FIGURE GETOIREMENT MISSESSES
C-1 R 24	1		İ			
C-1 R 25	VR1-1143-102		1	RESISTOR 1K OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-1 R 26	VR1-1143-101		1	RESISTOR 100 OHM 1/4W	*	.BC.EFGHIJKLMNOPQ
C-1 R 27 C-1 R 28	VR1-1143-332 VR5-0040-223			RESISTOR 3.3K OHM 1/4W	*	ABCDEFGHIJKLMNOPQRA.D.
C-1 R 29	VR5-0040-223		Ιi	METAL RESISTOR 22R OHM 1/4W	*	A. D
C-1 R 30	VR5-0041-102		i	METAL RESISTOR 11K OHM 1/4W	*	ADRR
C-1 R 31	VR5-0041-692	l	1	METAL RESISTOR 16.9K OHM 1/4W		ADR
C-1 R 32	VR5-0041-912		1	METAL RESISTOR 19.1K OHM 1/4W		AD
C-1 R 33 C-1 R 34	VR5-0043-402			METAL RESISTOR 34K OHM 1/4W		A
C-1 R 34 C-1 R 35	VR1-1143-473 VR1-1143-473	1	1 1	RESISTOR 47K OHM 1/4W RESISTOR 47K OHM 1/4W	*	ADRRRRRR
C-1 R 36	VR5-2950-100		li	METAL OXIDE RES. 10 OHM 1/2W	*	AD
		L	<u> </u>		L	

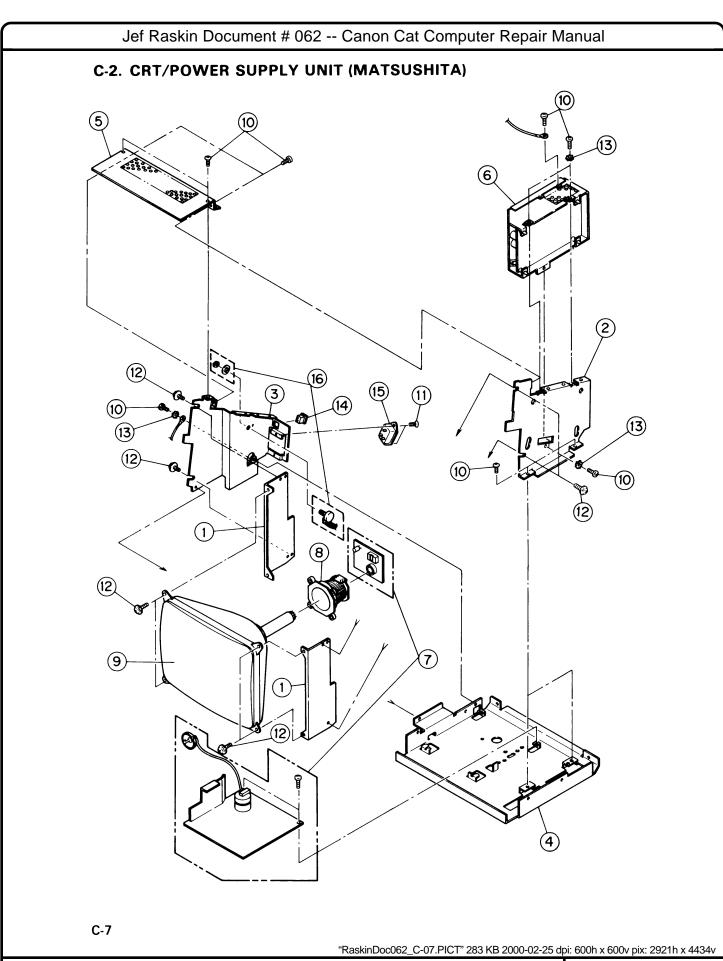
C-1. CPU PCB UNIT [COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

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D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FI	GURE						COUNTRY CODE
1	& Y NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-1	R 37	VR5-2950-100		1	METAL OXIDE RES. 10 OHM 1/2W	*	ADR
	R 38	VR5-0044-750		1	METAL RESISTOR 475 OHM 1/4W	*	AD
C-1	R 39	VR5-0040-223		1	METAL RESISTOR 22K OHM 1/4W	*	ADRR
C-1	R 40	VR5-0043-322		1	METAL RESISTOR 33.2K OHM 1/4W		ADRR
C-1	R 42	VR5-0040-223		1	METAL RESISTOR 22K OHM 1/4W	*	AD
C-1	R 43	VR5-0040-223	1	1	METAL RESISTOR 22K OHM 1/4W	*	AD
C-1	R 44	VR5-0041-102	l	1	METAL RESISTOR 11K OHM 1/4W	*	AD
C-1	R 45	VR1-1143-106		1	RESISTOR 10M OHM 1/4W	*	AD
C-1	R 46	VR1-1143-106		1	RESISTOR 10M OHM 1/4W	*	A. D
C-1	R 50	VR5-0048-062	ļ	1	METAL RESISTOR 80.6K OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-1	R 51	VR5-0042-802	l	1	METAL RESISTOR 28K OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-1	R 52	VR1-1143-335	İ	1 1	RESISTOR 3.3M OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-1	R 53	VR1-1143-475		1	RESISTOR 4.7M OHM 1/4W RESISTOR 3.3K OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-1	R 54 R 55	VR1-1143-332 VR1-1143-102			RESISTOR 1K OHM 1/4W	*	.BC.EFGHIJKLMNOPQ
C-1 C-1	R 55	VR1-1143-102			RESISTOR 3.3K OHM 1/4W	*	AD
C-1	R 56	VR1-1143-332			RESISTOR 20 OHM 1/4W	"	.BC.EFGHIJKLMNOPQ
C-1	R 57	VR1-1143-200		Ιί	RESISTOR 10K OHM 1/4W		ADR
C-1	R100	VR1-1143-332		Ιί	RESISTOR 3.3K OHM 1/4W	*	ADR
C-1	R100	VR1-1143-472		Ιi	RESISTOR 4.7K OHM 1/4W		.BC.EFGHIJKLMNOPQ
C-1	R101	VR1-1143-102		1	RESISTOR 1K OHM 1/4W	*	.BC.EFGHIJKLMNOPQ
C-1	R101	VR1-1143-103		ĺ	RESISTOR 10K OHM 1/4W		ADRR
C-1	R102	VR1-1143-103		1	RESISTOR 10K OHM 1/4W		AD
C-1	R102	VR1-1143-472	ļ	1	RESISTOR 4.7K OHM 1/4W		.BC.EFGHIJKLMNOPQ
C-1	R103	VR1-1143-103		1	RESISTOR 10K OHM 1/4W		AD
C-1	R104	VR1-1143-103		1	RESISTOR 10K OHM 1/4W		ADRR
C-1	R105	VR1-1143-103		1	RESISTOR 10K OHM 1/4W		ADR
C-1	R106	VR1-1143-221		1	RESISTOR 220 OHM 1/4W		ADR
C-1	R200	VR5-0041-102		1	METAL RESISTOR 11K OHM 1/4W	*	AD
C-1	R201	VR5-0044-222		1	METAL RESISTOR 42.2K OHM 1/4W	١.	AD
C-1	RA 1	VR5-0410-332		1	RESISTOR ARRAY 3.3K OHM 1/8WX7	*	ABCDEFGHIJKLMNOPQR
C-1	RA 2 RA 3	VR5-0580-101		1	RESISTOR ARRAY 100 OHM 1/8WX4 RESISTOR ARRAY 100 OHM 1/8WX4		.BC.EFGHIJKLMNOPQ
C-1 C-1	RA 3 RA 4	VR5-0580-101 VR5-0580-101			RESISTOR ARRAY 100 OHM 1/8WX4		.BC.EFGHIJKLMNOPQ
C-1	RA 5	VR5-0580-101	ł	li	RESISTOR ARRAY 100 OHM 1/8WX4		.BC.EFGHIJKLMNOPQ
C-1	RA 6	VR5-0410-102		li	RESISTOR ARRAY 1K OHM 1/8WX7	*	ABCEEFGHIJKLMNOPQR
C-1	RA 7	VR5-0410-102		li	RESISTOR ARRAY 1K OHM 1/8WX7	*	ABCEEFGHIJKLMNOPQR
Č-1	RA 8	VR5-0410-102		ĺ	RESISTOR ARRAY 1K OHM 1/8WX7	*	ABCEEFGHIJKLMNOPQR
C-i	RA 9	VR5-0410-472	1	i	METAL RESISTOR 4.7K OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-1	RA 11	VR5-0580-221		1	RESISTOR ARRAY 220 OHM 1/8W X4		ADR
C-1	RA 12	VR5-0580-221		1	RESISTOR ARRAY 220 OHM 1/8W X4		ADR
C-1	RA 13	VR5-0580-221		1	RESISTOR ARRAY 220 OHM 1/8W X4		ADR
C-1	RA 14	VR5-0580-221		1	RESISTOR ARRAY 220 OHM 1/8W X4	1	ADR
C-1	RAV	WA8-0129-000	1	1	SURGE ABSORBER RAV-361LD		AD
C-1	SVZ 1	WA8-0038-000	1	1	VARISTOR VR-61SS	*	ADRR
	SW 1	WC3-0078-000	1	1 1	SLIDE SWITCH		ABCDEFGHIJKLMNOPQR
C-1	SW 2	WC8-0114-000		!	PUSH SWITCH, SPJ312TE1S	1	ABCDEFGHIJKLMNOPQR
C-1	T 1	WE1-0028-000		!	POWER TRANSFORMER	*	ADR
C-1	VZ 2	WA8-0040-000		!	VARISTOR SNR-14P470K	*	A.DRR.
C-1	X 1 X 2	WK2-0358-000	1	1	CRYSTAL OSCILLATOR 19.968MHZ	*	ABCDEFGHIJKLMNOPQR
C-1 C-1	X 2 X 3	WK2-0359-000 WK2-0360-000		1	CRYSTAL OSCILLATOR 3.6864MHZ CRYSTAL OSCILLATOR 2.4576MHZ	*	ADRR.
	X 3	WK2-0360-000		1 1	CRYSTAL OSCILLATOR 2.4576MHZ	"	ADR
C-1	ZD 1	WA1-0503-000	1		ZENER DIODE HZ3BLL	*	ABCDEFGHIJKLMNOPQR
C-1	ZD 2	WA1-0303-000	1	li	ZENER DIODE HZ35LL	"	ADRR.
C-1	ZD 2	WA1-0088-000		li	ZENER DIODE HZ15-2		ADR
Ľ.,		1	<u> 1</u>	<u>L.'.</u>	12.21.01002 12.00 2		



Source: David T. Craig Page 0118 of 0187

C-2. CRT/POWER SUPPLY UNIT [COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA R: JAPAN

B: ASIA F: LATIN(230V) J: NETHERLAND N: U.K.
C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN
D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

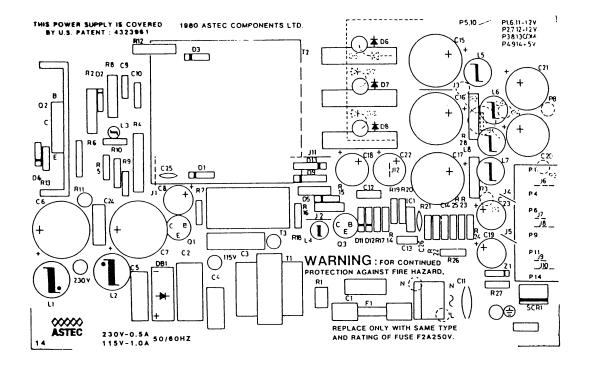
FIGURE & KEY NO.	PART NUMBER	rank	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
C-2 2 C-2 3 C-2 4 C-2 5 C-2 6 C-2 7	NY7-6600-000 NY7-6601-000 NY7-6602-000 NY7-6603-000 NY7-6605-000 NY7-6606-000 NY7-6607-000 NY7-6608-000 NY7-6609-000 NY7-66505-000 NY7-66505-000 NY7-6655-000 NY7-6655-000 NY7-6655-000 NY7-6656-000 NY7-6656-000 NY7-6656		2 1 1 1 1 1 1 1 1 1 3 2 8 3 1 1	HOLDING PLATE, CRT SIDE PLATE (RIGHT) SIDE PLATE (LEFT) CRT CHASSIS SHIELD PLATE POWER SUPPLY UNIT CRT DRIVE PCB UNIT (PPH) DEFLECTION YORK CRT ASSEMBLY SCREW, PH M3X8 SCREW, FTH M3X8 SCREW, M4X8 WASHER POWER SWITCH RECEPTACLE BRIGHTNESS VR.	*******	A

C-8

"RaskinDoc062_C-08.PICT" 164 KB 2000-02-25 dpi: 500h x 500v pix: 2355h x 3703v

Source: David T. Craig

C-3. POWER SUPPLY UNIT



C-3. POWER SUPPLY UNIT [COUNTRY CODE AS SHOWN BELOW]

B: ASIA

COUNTRY CODE: A: USA/CANADA

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLAND N: U.K. R: JAPAN

C: OCEANIA K: W.GERMANY 0: SPAIN G: NORWAY D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
C-3 C 1 C-3 C 2 C-3 C 3 C-3 C 4 C-3 C 5 C-3 C 6 C-3 C 7 C-3 C 8 C-3 C 9 C-3 C 11 C-3 C 12 C-3 C 14 C-3 C 15 C-3 C 16 C-3 C 17 C-3 C 18 C-3 C 17 C-3 C 17 C-3 C 18 C-3 C 16 C-3 C 17 C-3 C 18 C-3 C 16 C-3 C 17 C-3 C 18 C-3 C 18 C-3 C 16 C-3 C 17 C-3 C 18 C-3 C 18 C-3 C 16 C-3 C 17 C-3 C 18 C-3 C 16 C-3 C 17 C-3 C 18 C-3 C 17 C-3 C 18 C-3 C 18 C 18 C 18 C 18 C 18 C 18 C 18 C 18	NY7-6620-000 NY7-6618-000 NY7-6611-000 NY7-6611-000 NY7-6613-000 NY7-6613-000 NY7-6615-000 NY7-6649-000 NY7-6620-000 NY7-6619-000 NY7-6619-000 NY7-6614-000 NY7-6614-000 NY7-6614-000 NY7-6614-000 NY7-6616-000 NY7-6618-000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FILM CAP. 0.01UF 250V FILM CAP. 0.22UF 250V MPR CAP. 4700PF 250V CERAMIC CAP. 4700PF 250V FILM CAP. 0.22UF 250V ALUMINUM CAP. 100UF 250V ALUMINUM CAP. 100UF 250V ALUMINUM CAP. 220UF 10V CERAMIC CAP. 470PF 2KV FILM CAP. 0.01UF 250V FILM CAP. 0.22UF 100V FILM CAP. 0.22UF 100V FILM CAP. 0.22UF 100V FILM CAP. 1000UF 16V FILM CAP. 1000UF 16V FILM CAP. 1000UF 16V ALUMINUM CAP. 330UF 16V ALUMINUM CAP. 470UF 25V FILM CAP. 0.22UF 250V	**********	A

C-9

"RaskinDoc062_C-09.PICT" 441 KB 2000-02-25 dpi: 600h x 600v pix: 2800h x 4451v

Source: David T. Craig

C-3. POWER SUPPLY UNIT [COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

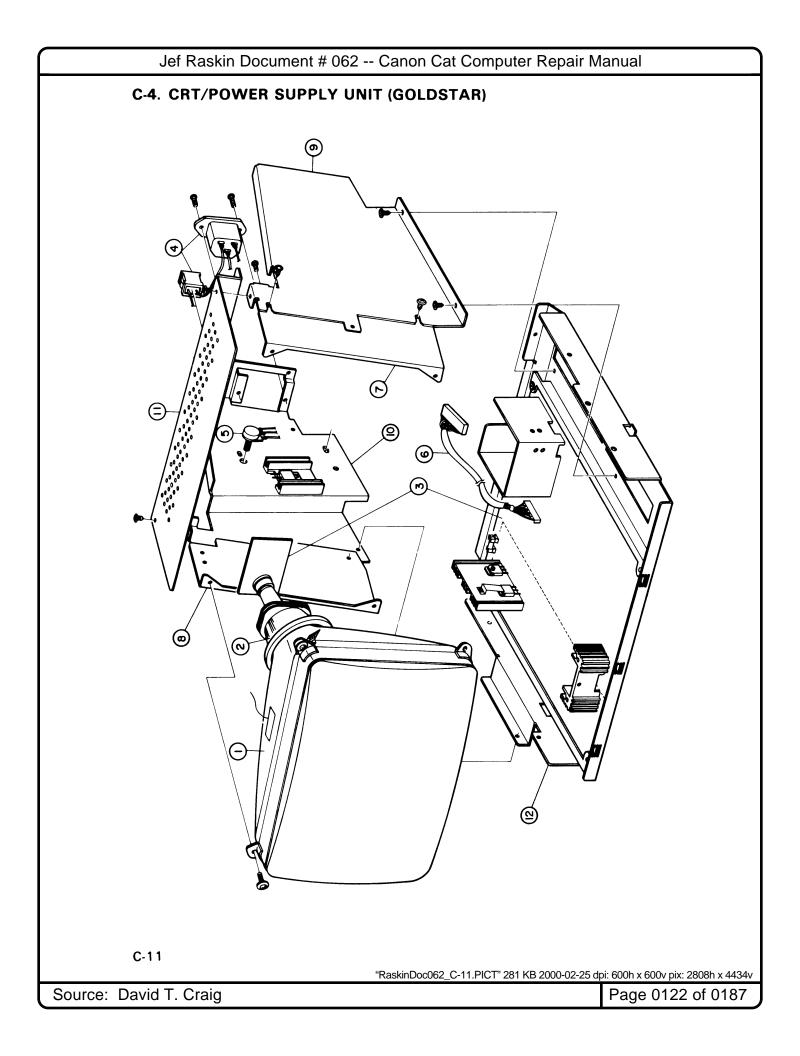
A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA B: ASIA F: LATIN(230V) J: NETHERLAND N: U.K. R: JAPAN

B: ASIA F: LATIN(230V) J: NETHERLAND N: U.K.
C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN
D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE						COUNTRY CODE
& KEY NO.	PART NUMBER	rank	מ'דץ	DESCRIPTION	REMARKS	ABCOEFGHIJKLMNOPQR
C-3 C 25	NY7-6612-000	<u> </u>	1	CERAMIC CAP. 0.01UF 100V	*	A
C-3 D 1	WA1-0283-000	ŀ	1	DIODE V19B	*	A
C-3 D 2	NY7-6628-000	l	1	DIODE RGP10J	*	A
C-3 D 3	NY7-6631-000		1	DIODE RGP10M	*	A
C-3 D 4	NY7-6630-000		1	DIODE 1N4001GP	*	A
C-3 D 5	NY7-6626-000	1	1	DIODE 1N4606	*	A
C-3 D 6	NY7-6647-000		1	0100E	*	A
C-3 D 7	NY7-6646-000		1	DIOOE	*	A
C-3 D 8	NY7-6646-000		1	DIODE	*	A
C-3 D 9	NY7-6629-000		1	DIODE RGP10B	*	A
C-3 D 11	NY7-6626-000		1	DIODE 1N4606	*	A
C-3 D 12 C-3 D 13	NY7-6626-000			DIODE 1N4606 DIODE 1N4001GP	*	A
C-3 DB 1	NY7-6630-000 NY7-6632-000		li	DIODE BRIDGE KBP08-5001	*	A
1C-3 DB 1	NY7-6623-000		¦	FUSE 2A 250V	*	A
C-3 IC 1	NY7-6625-000		Ιi	IC AS431	*	A
C-3 L 3	NY7-6639-000		Ιi	INDUCTOR 2.2UH	*	A
C-3 L 4	NY7-6640-000		Ιi	INDUCTOR 1.5MH	*	A
C-3 L 5	NY7-6644-000	1	li	CHOKE COIL	*	A
C-3 L 6	NY7-6644-000		Ιi	CHOKE COIL	*	A
C-3 L 7	NY7-6641-000		Ιi	CHOKE COIL	*	A
C-3 Q 1	X65-6177-000	•	l i.	TRANSISTOR 2SC1213A	*	A
C-3 Q 2	NY7-6624-000	İ	Ιï	TRANSISTOR 2SC1942-20	*	A
C-3 Q 3	WA2-0093-000	ŀ	1	TRANSISTOR 2SB561	*	A
C-3 R 1	NY7-6638-000		1	RESISTOR 4 OHM	*	A
C-3 R 2	NY7-6634-000		1	RESISTOR 330K OHM 1/2W	*	A
C-3 R 3	NY7-6637-000		1	RESISTOR 180 OHM 1W	*] A
C-3 R 4	NY7-6652-000		1	RESISTOR 33 OHM 3W	*	A
C-3 R 5	VR1-1143-102	İ	1	RESISTOR 1K OHM 1/4W	*	A
C-3 R 6	VR1-1143-270		1	RESISTOR 27 OHM 1/4W	*	[A
C-3 R 7	VR1-1143-680	Ì	1	RESISTOR 68 OHM 1/4W	*	[A
C-3 R 8	NY7-6650-000	l	1	RESISTOR 120 OHM 1W	*	[A
C-3 R 9	VR1-1143-100		1	RESISTOR 10 OHM 1/4W	*	A
C-3 R 10 C-3 R 11	VR1-1143-100		1	RESISTOR 10 OHM 1/4W	*	[A
C-3 R 11 C-3 R 12	NY7-6635-000 NY7-6636-000		1 1	RESISTOR 0.75 OHM 1W RESISTOR 1 OHM 1W	*	[A
C-3 R 13	VR1-1143-569		1	RESISTOR 1 OHM 1/4W	*	A
C-3 R 14	VR1-1143-330		li	RESISTOR 33 OHM 1/4W	*	A
C-3 R 15	NY7-6651-000		li	RESISTOR 270 OHM 1W	*	A
C-3 R 16	NY7-6651-000		li	RESISTOR 270 OHM 1W	*	A
C-3 R 17	VR1-1143-829		Ιί	RESISTOR 8.2 OHM 1/4W	*	A
C-3 R 18	VR1-1143-561		l i	RESISTOR 560 OHM 1/4W	*	A
C-3 R 19	VR1-1143-560	İ	li	RESISTOR 56 OHM 1/4W	*	A
C-3 R 20	VR1-1143-680		l i	RESISTOR 68 OHM 1/4W	*	A
C-3 R 21	VR1-1143-331		i	RESISTOR 330 OHM 1/4W	*	A
C-3 R 22	VR1-1143-471		1	RESISTOR 470 OHM 1/4W	*	A
C-3 R 23	VR1-1143-472		1	RESISTOR 4.7K OHM 1/4W	*	A
C-3 R 24	VR1-1143-272		1	RESISTOR 2.7K OHM 1/4W	*	A
C-3 R 25	VR1-1143-223		1	RESISTOR 22K OHM 1/4W	*	A
C-3 R 26	VR1-1143-683		1	RESISTOR 68K OHM 1/4W	*	A
C-3 R 27	VR1-1143-220	1	1	RESISTOR 22 OHM 1/4W	*	A
C-3 SCR 1	NY7-6633-000	1	1	THYRISTOR C122U	*	A
C-3 T 1	NY7-6645-000	1	1	TRANSFORMER	*	A
C-3 T 2	NY7-6642-000		1	TRANSFORMER	*	A
C-3 T 3	NY7-6643-000	1	1 1	TRANSFORMER	*	A
C-3 Z 1	NY7-6627-000		1	ZENER DIODE A40MA	*	A
						•

C-10

"RaskinDoc062_C-10.PICT" 415 KB 2000-02-25 dpi: 500h x 500v pix: 2369h x 3703v



C-4. CRT/POWER SUPPLY UNIT (GOLDSTAR) [COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA

B: ASIA F: LATIN(230V) J: NETHERLAND N: U.K. R: JAPAN C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN

C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN
D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
C-4 1 C-4 2 C-4 3 C-4 4 C-4 5 C-4 6 C-4 7 C-4 8 C-4 9 C-4 9 C-4 10 C-4 11 C-4 12	NY7-0931-000 NY7-0932-000 NY7-0933-000 NY7-0934-000 NY7-0935-000 NY7-0936-000 NY7-0937-000 NY7-0938-000 NY7-0939-000 NY7-0940-000 NY7-0941-000 NY7-0942-000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CRT ASSEMBLY DEFLECTION YORK CRT/POWER PCB UNIT (PPH) SWITCH/RECEPTACLE ASSEMBLY BRIGHT VOLUME ASSEMBLY CABLE ASSEMBLY HOLDING PLATE(RIGHT), CRT HOLDING PLATE(LEFT), CRT SIDE PLATE(RIGHT), CRT SIDE PLATE(LEFT), CRT SHELD PLATE, CRT PCB SUPPORTER ASSEMBLY	* * * * * * * * * * * * * * * * * * * *	A

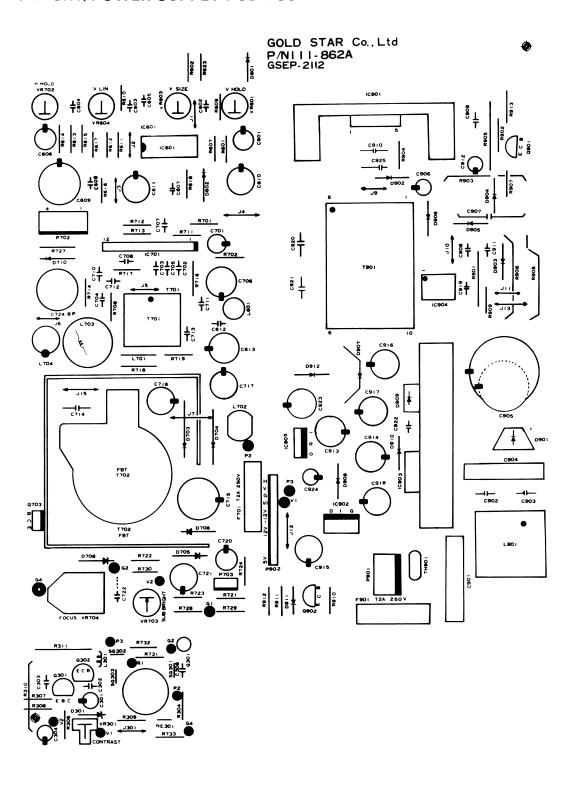
C-12

"RaskinDoc062_C-12.PICT" 149 KB 2000-02-25 dpi: 500h x 500v pix: 2377h x 3695v

Source: David T. Craig

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C-5. CRT/POWER SUPPLY PCB ASSEMBLY



C-13

"RaskinDoc062_C-13.PICT" 590 KB 2000-02-25 dpi: 1000h x 1000v pix: 4638h x 7420v

Source: David T. Craig Page 0124 of 0187

C-5. CRT/POWER SUPPLY PCB ASSEMBLY [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

A: USA/CANADA B: ASIA C: OCEANIA D: QUEBEC E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA
F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN
G: NORWAY K: W.GERMANY O: SPAIN
H: DENMARK L: SWITZERLAND P: ITALY

h: Denmark L: SWITZERLAND P: ITALY

FIGURE 8		1					
C-5 C302 M77-082-000	&	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	
C-5 C302 M77-082-000							
C-5 G303			1		ALUMINUM CAP. 47UF 16V		A
C-5 C304 NY7-082-000					CERAMIC CAP. 0.01UF 50V		[A
C-5 C-5	1						A
C-5 C501 NYT-0852-000 1 ALLMINIM CAP 0.11F 500							Α
C-5 C-5					ALIMINIM CAP. 0.10220F 300V		Δ
C-5 C603			İ				Ā
C-5 G055	C-5 C603						A
C-5 G066				1			A
C-5 G807 NY7-0803-000 1 FILM CAP - 0.1UF 100V A							A
C-5 G608							A
C-5 C609 MY7-0803-000			1				A
C-5 C510			1				Α
C-5 CE11			İ				Δ
C-5							Ā
C-5 C701 NY7-0831-000 1 ALUMINUM CAP. 2.2UF 50V A	C-5 C612			1 1			A
C-5 C702		NY7-0807-000		1			A
C-5 C705							A
C-5 C705 NY7-0828-000 1 CERAMIC CAP, 0.01UF 50V A							A
C-5 C706							A
C-5 C707	1				ALIMINUM CAD 220HE 16U		A
C-5 C708							Λ
C-5 C710		NY7-0860-000					Δ
C-5 C711			1				Ā
C-5 C713 NY7-0834-000	C-5 C711			1			A
C-5 C714 NY7-0867-000			l	1			A
C-5 C715 NY7-0818-000							A
C-5 C716 NY7-0808-000							A
C-5 C717 NY7-0808-000 1 ALUMINUM CAP. 220UF 16V A.			i				A
C-5 C720 NY7-0819-000 1 ALUMINUM CAP. 100V 100V A. C-5 C721 NY7-0806-000 1 ALUMINUM CAP. 47UF 100V A. C-5 C722 NY7-0827-000 1 CERAMIC CAP. 0.01UF 1KV A. C-5 C724 NY7-0824-000 1 ALUMINUM CAP. 3.3UF 50V A. C-5 C901 NY7-0839-000 1 FILM CAP. 0.1UF 125V A. C-5 C902 NY7-0836-000 1 CERAMIC CAP. 0.0022UF A. C-5 C903 NY7-0836-000 1 CERAMIC CAP. 0.0022UF A. C-5 C904 NY7-0859-000 1 FILM CAP. 0.1UF 125V A. C-5 C905 NY7-0859-000 1 FILM CAP. 0.1UF 125V A. C-5 C906 NY7-0859-000 1 FILM CAP. 0.1UF 125V A. C-5 C906 NY7-0859-000 1 ALUMINUM CAP. 120UF 200V A. C-5 C907 NY7-0868-000 1 FILM CAP. 0.047UF 800V A. C-5 C908 NY7-0868-000 1 FILM CAP. 0.047UF 800V A. C-5 C909 NY7-0861-000 1 FILM CAP. 0.0047UF 100V A. C-5 C910 NY7-0865-000 1 FILM CAP. 0.033UF 100V A. C-5 C911 NY7-0861-000 1 FILM CAP. 0.033UF 100V A. C-5 C912 NY7-0861-000 1 FILM CAP. 0.033UF 100V A. C-5 C912 NY7-0861-000 1 ALUMINUM CAP. 10UF 50V A. C-5 C912 NY7-0861-000 1 ALUMINUM CAP. 1000UF 25V A. C-5 C914 NY7-0861-000 1 ALUMINUM CAP. 1000UF 25V A. C-5 C915 NY7-0861-000 1 ALUMINUM CAP. 1000UF 25V A. C-5 C916 NY7-0861-000 1 ALUMINUM CAP. 1000UF 25V A. C-5 C917 NY7-0861-000 1 ALUMINUM CAP. 1000UF 25V A. C-5 C918 NY7-0821-000 1 ALUMINUM CAP. 1000UF 25V A. C-5 C916 NY7-0821-000 1 ALUMINUM CAP. 1000UF 10V A. C-5 C917 NY7-0821-000 1 ALUMINUM CAP. 1600UF 10V A. C-5 C918 NY7-0831-000 1 ALUMINUM CAP. 1600UF 10V A. C-5 C919 NY7-0831-000 1 ALUMINUM CAP. 1600UF 10V A. C-5 C919 NY7-0831-000 1 FILM CAP. 0.0022UF A. C-5 C920 NY7-0836-000 1 CERAMIC CAP. 2200UF 10V A. C-5 C921 NY7-0836-000 1 CERAMIC CAP. 2200UF A. C-5 C922 NY7-0836-000 1 CERAMIC CAP. 270PF A. C-5 C922 NY7-0804-000 1 CERAMIC CAP. 270PF	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						Λ
C-5 C721 NY7-0806-000							Δ
C-5 C722							A
C-5 C901	C-5 C722	NY7-0827-000		1			A
C-5 C902 NY7-0836-000 1 CERAMIC CAP. 0.0022UF A							A
C-5 C903 NY7-0836-000 1 CERAMIC CAP. 0.0022UF A							A
C-5 C904 NY7-0859-000 1 FILM CAP. 0.1UF 125V A							A
C-5 C905 NY7-0823-000 1 ALLMINUM CAP. 120UF 200V A							A
C-5 C906 NY7-0812-000 1 ALUMINUM CAP. 10UF 25V A							Δ
C-5 C907 NY7-0868-000 1 FILM CAP. 0.047UF 800V A				,			A
C-5 C908	C-5 C907						A
C-5 C910 NY7-0865-000 1 FILM CAP. 0.047UF 200V A				1	FILM CAP. 0.0047UF 100V		A
C-5 C911 NY7-0861-000 1 FILM CAP. 0.033UF 100V A							A
C-5 C912 NY7-0816-000 1 ALUMINUM CAP. 10UF 50V A							
C-5 C913 NY7-0822-000 1 ALUMINUM CAP. 1000UF 25V A C-5 C914 NY7-0822-000 1 ALUMINUM CAP. 1000UF 25V A C-5 C915 NY7-0811-000 1 ALUMINUM CAP. 1600UF 16V A C-5 C916 NY7-0821-000 1 ALUMINUM CAP. 1600UF 10V A C-5 C917 NY7-0821-000 1 ALUMINUM CAP. 1600UF 10V A C-5 C918 NY7-0805-000 1 ALUMINUM CAP. 2200UF 10V A C-5 C919 NY7-0833-000 1 FILM CAP. 2200UF 10V A C-5 C920 NY7-0836-000 1 CERAMIC CAP. 0.0022UF A C-5 C921 NY7-0836-000 1 CERAMIC CAP. 0.0022UF A C-5 C922 NY7-0804-000 1 CERAMIC CAP. 270PF A	0 - 00.0			1			
C-5 C914 NY7-0822-000 1 ALUMINUM CAP. 1000UF 25V A							
C-5 C915 NY7-0811-000 1 ALUMINUM CAP. 470UF 16V A							II =
C-5 C916 NY7-0821-000 1 ALUMINUM CAP. 1600UF 10V A					ALUMINUM CAP. 470HF 16V		
C-5 C917 NY7-0821-000 1 ALUMINUM CAP. 1600UF 10V A	C-5 C916						
C-5 C918 NY7-0805-000 1 ALUMINUM CAP. 2200UF 10V A		NY7-0821-000			ALUMINUM CAP. 1600UF 10V		
C-5 C920					ALUMINUM CAP. 2200UF 10V		
C-5 C921 NY7-0836-000 1 CERAMIC CAP. 0.0022UF A							
C-5 C922 NY7-0804-000 1 CERAMIC CAP. 270PF A.							
S SSES WIT SSES TOOL I MEURITHUR ONE ZEOUF ZOV A							
	0 0 0020	1111 0323-000		_ ' _	ACMITHME ONE - SECOL SOA		M

C-14

"RaskinDoc062_C-14.PICT" 449 KB 2000-02-25 dpi: 500h x 500v pix: 2348h x 3717v

C-5. CRT/POWER SUPPLY PCB ASSEMBLY [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

A: USA/CANADA
B: ASIA
C: OCEANIA
D: QUEBEC E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY

D: QUEBEC

C-5	D. QUEDEC	II. DOMESTI			14 11121		
C-5 C324 N77-0810-000	&	PART NUMBER	rank	Q'TY	DESCRIPTION	REMARKS	
\$\begin{array}{cccccccccccccccccccccccccccccccccccc	KEY NU.						A
\$\begin{array}{cccccccccccccccccccccccccccccccccccc	C-E C024	NY7_0810_000		1	ALLIMINUM CAP ATUE 16V		Δ
\$\frac{2.5}{0.50}\$ \text{ NY7-0845-000 } 1 \text{ IZENER DIODE 7.0 } \$\text{ A}\$ \$\text{ A}\$ \$\text{ C-5}\$ \text{ G601 } \text{ NY7-0806-000 } 1 \text{ DIODE RGP 30G } \$\text{ A}\$ \$\text							A
C-5 5601 NY7-6849-000 1 DIOCE KDS 1555 A C-5 50723 NY7-6910-000 1 DIOCE RGP 30G A C-5 1704 NY7-6910-000 1 DIOCE RGP 30G A C-5 1705 NY7-6930-000 1 DIOCE RGP 30G A C-5 1708 NY7-6931-000 1 DIOCE RGP 10D A C-5 1708 NY7-6931-000 1 DIOCE RGP 10D A C-5 1707 NY7-6938-000 1 DIOCE RGP 10D A C-5 1801 NY7-6938-000 1 DIOCE RGP 10D A C-5 1802 NY7-6938-000 1 DIOCE RGP 10D A C-5 1804 NY7-6938-000 1 DIOCE RGP 10D A C-5 1806 NY7-6938-000 1 DIOCE RGP 10D A C-5 1806 NY7-6938-000 1 DIOCE RGP 10D A C-5 1806 NY7-6938-000 1 <							A
C-5 0602 N77-090-000 1 0100E R9100 A							A
Ĉ-5 0703 NY7-0910-000 1 01006 RQP 30G A. C-5 0706 NY7-0909-000 1 01006 RQP 30G A. C-5 0706 NY7-0908-000 1 01006 RQP100 A. C-5 0708 NY7-0911-000 1 01006 RQP100 A. C-5 0708 NY7-0938-000 1 01006 RQP100 A. C-5 0901 NY7-0938-000 1 01006 RQP100 A. C-5 0901 NY7-0938-000 1 01006 RQP100 A. C-5 0903 NY7-0938-000 1 01006 RQP100 A. C-5 0904 NY7-0938-000 1 01006 RQP100 A. C-5 0906 NY7-0938-000 1 D1006 RQP100 A. C-5 0906 NY7-0938-000 1 D1006 RQP100 A. C-5 0908 NY7-0938-000 1 D1006 RQP100 A. C-5 0908 NY7-0938-000 1 <							1
C-5 0704 NYT-0909-000 1 01006 RGP 30G A				' 1	DTODE RGP 30G		A
Ĉ-5 0706 NY7-0908-000 1 01006 RQP100 A. C-5 0708 NY7-0911-000 1 01006 RQP100 A. C-5 0701 NY7-098-000 1 01006 RQP100 A. C-5 0901 NY7-0889-000 1 01006 RQP100 A. C-5 0902 NY7-0889-000 1 D100E RQP100 A. C-5 0902 NY7-0988-000 1 D100E RQP100 A. C-5 0904 NY7-0988-000 1 D100E RQP100 A. C-5 0904 NY7-0988-000 1 D100E RQP100 A. C-5 0906 NY7-0988-000 1 D100E RQP100 A. C-5 0906 NY7-0988-000 1 D100E RQP100 A. C-5 0908 NY7-0988-000 1 D100E RQP100 A. C-5 0910 NY7-0988-000 1 D100E RQP100 A. C-5 0911 NY7-0988-000 1			ŀ		DTODE RGP 30G	1	A
C-5 0706 NY7-0908-000 1 DIODE RGP100 A			i				A
C-5 D 7078 NY7-091-000 1 0 1000 R RP100 A. C-5 D 710 NY7-098-000 1 0 1000 R RP100 A. C-5 D 901 NY7-088-000 1 0 1000 R RP156 A. C-5 D 903 NY7-0938-000 1 0 1000 R RP160 A. C-5 D 903 NY7-0938-000 1 0 1000 R RP100 A. C-5 D 904 NY7-0938-000 1 0 1000 R RP100 A. C-5 D 906 NY7-0938-000 1 0 1000 R RP100 A. C-5 D 906 NY7-0938-000 1 0 1000 R RP100 A. C-5 D 908 NY7-0938-000 1 0 1000 R RP100 A. C-5 D 909 NY7-0938-000 1 0 1000 R RP100 A. C-5 D 910 NY7-0938-000 1 0 1000 R RP100 A. C-5 D 917 NY7-0938-000 1 0 1000 R RP100 A. C-5 D 917 NY7-0938-000 1 0 1000 R RP100 A. C-5 P 920 NY7-0936-000 1 0 1000 R RP100 A. <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>A</td>			1				A
C-5 0710 NY7-0908-000 1 0100E RGP100 A			1	1 1			A
C-5 B901 NYT-0889-000 1 DIODE RB-156 A				1 1			A
C-5 19902 NY7-9838-000 1 DIDDE ESTF A A			1	1 1			A
C-5 B903 NY7-0908-000			1	1	DIODE ES1F		A
C-5 19904 NY7-0908-000 1 DIODE RGP10D A		NY7-0908-000		1	DIODE RGP10D	l	A
C-5 0906 NY7-0908-000	C-5 0904	NY7-0908-000		1			A
C-5 0906 NY7-0908-000			1	1		1	A
C-5 10907 NY7-0837-000 1 DIODE RL4Z				1		1	A
C-5 B908 NY7-0908-000 1 DIODE RGP100 A				1			A
C-5 B090 NY7-0918-000 1 DIODE S8S840T A		NY7-0908-000	1	1	DIODE RGP10D		A
C-5 0911 NY7-0908-000 1 DIDDE RD5 1EB2 A	C-5 0909	NY7-0918-000		1	DIODE SBS840T		A
C-5 6912 NY7-0936-000 1 DIDDE RGP10D A A C-5 F902 NY7-0926-000 1 FUSE 2A250V A A C-5 F002 NY7-0926-000 1 FUSE 2A250V A A A A A A A .	C-5 D910	NY7-0908-000	l	1	DIODE RGP10D		A
C-5 F901 NY7-0926-000 1 FUSE 2A250V A	C-5 0911		l	1		1	A
C-5 F902 NY7-0926-000 1 FUSE 2A250V A. A.	C-5 0912	NY7-0908-000		1			A
C-5 ICSO1 NY7-0848-000 1 IC DA 1170N (V.DRIVER) A	C-5 F901						A
C-5 IC701 NY7-0801-000 1 I IC AN 5790N (H.DRIVER) A			1	1			A
C-5 C301 NY7-0841-000 1 IC STR11006 A. A. C-5 IC3003 NY7-0843-000 1 IC SI-3122V A. C-5 IC304 NY7-0843-000 1 IC SI-3522V A.							A
C-5 IC302 NY7-0841-000 1 IC SI-3122V A. A.			i				A
C-5			1				A
C-5			i				A
C-5			1				A
C-5			1			Į.	A
C-5							A
C-5 L701 NY7-0830-000 1 COIL, FERRITE BEAD A. A. A. C-5 L702 NY7-0825-000 1 CHOKE COIL 3.3UH A. A. C-5 L703 NY7-0842-000 1 COIL (H.SIZE) A. A. C-5 L704 NY7-0855-000 1 COIL, (H.LIN) A. A. C-5 L901 NY7-0854-000 1 COIL, (H.LIN) A. A. C-5 NE301 NY7-0985-000 1 NEON LAMP 95V A. A. C-5 P702 NY7-0858-000 1 CONNECTOR APIN A. C-5 P703 NY7-0856-000 1 CONNECTOR APIN A. C-5 P901 NY7-0857-000 1 CONNECTOR 2PIN A. C-5 C-5 Q301 NY7-0799-000 1 TRANSISTOR 2N3P04 A. A. C-5 Q302 NY7-0850-000 1 TRANSISTOR SUSTIBAS A. C-5 Q302 NY7-0851-000 1 TRANSISTOR KTC2229 A. C-5 Q901 NY7-0851-000 1 TRANSISTOR KTC2120Y A. A. C-5 R304 NY7-0894-000 1 TRANSISTOR KTC1815Y A. C-5 R306 NY7-0894-000 1 RESISTOR 30 OHM 1/8W A. A. C-5 R306 NY7-0898-000 1 RESISTOR 30 OHM 1/8W A. A. C-5 R308 NY7-0891-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R301 NY7-0810-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R301 NY7-0810-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R301 NY7-0810-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R301 NY7-0810-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R301 NY7-0810-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R301 NY7-0810-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R301 NY7-0810-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R301 NY7-0810-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R301 NY7-0810-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R301 NY7-0810-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R300 NY7-0870-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R300 NY7-0870-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R300 NY7-0870-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R300 NY7-0870-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R300 NY7-0870-000 1 RESISTOR 20 OHM 1/8W A. A. C-5 R300 NY7-0870-000 1 RESISTOR 2							A
C-5 L702 NY7-0825-000 1 CHOKÉ COIL 3.3UH A			1			1	A
C-5				1			Α
C-5							Λ
C-5							Λ
C-5 NE301			1		MIL, (H-LIN)		Λ
C-5 P702			1		NEON LAND ON		Λ
C-5 P703			1				Δ
C-5 P901			1			1	A
C-5 Q301			1			1	A
C-5 Q302]	A
C-5 Q703 NY7-0799-000 1 TRANSISTOR 2SD1163A A			1				A
C-5 Q901			1				A
C-5			1			1	A
C-5 R304			1		• A • • • • • • • • • • • • • • • • • •		1 -
C-5 R306		NY7-0894-000	1	1 '		1	
C-5 R307							A
C-5 R308 NY7-0871-000 1 RESISTOR 100 OHM 1/8W A							
C-5 R309						ł	A
C-5 R310			I	1	RESISTOR 220 OHM 1/8W		A
C-5 R601		NY7-0916-000	1	1			A
C-5 R602	C-5 R311		l] 1		1	A
C-5 R607			1				
C-5 R609 NY7-0876-000 1 RESISTOR 130K OHM 1/8W A			I			1	
							A
C-5 R610 NY7-0897-000 1 1 RESISTOR 470K OHM 1/8W A			}				1
	C-5 R610	NY7-0897-000	1	1	RESISTOR 470K OHM 1/8W	1	A
		<u> </u>		1		1	1

C-5. CRT/POWER SUPPLY PCB ASSEMBLY (COUNTRY CODE AS SHOWN BELOW)
COUNTRY CODE:

A: USA/CANADA B: ASIA C: OCEANIA D: QUEBEC E: LATIN(115V)
F: LATIN(230V)
G: NORWAY I: SWEDEN/FINLAND M: FRANCE J: NETHERLANDS N: U.K. K: W.GERMANY O: SPAIN Q: S.AFRICA R: JAPAN

H: DENMARK L: SWITZERLAND P: ITALY

	T	r				
FIGURE		1	l			COUNTRY CODE
&	Part Number	RANK	Q'TY	DESCRIPTION	REMARKS	
KEY NO.		į	•			A
2.5. 5011			-	05070700 474 044 4 004		
C-5 R611	NY7-0895-000		1	RESISTOR 47K OHM 1/8W		A
C-5 R612	NY7-0886-000		1	RESISTOR 24K OHM 1/8W		A
C-5 R613	NY7-0899-000		1	RESISTOR 5.6K OHM 1/8W		A
C-5 R614	NY7-0881-000	1	1	RESISTOR 1.5 OHM 1/8W		A
C-5 R615	NY7-0902-000		1	RESISTOR 6.8K OHM 1/8W		A
C-5 R616	NY7-0875-000	•	1	RESISTOR 130K OHM 1/8W		A
C-5 R617	NY7-0899-000		1	RESISTOR 5.6K OHM 1/8W		A
C-5 R618	NY7-0893-000		1	RESISTOR 3.3 OHM 1/8W RESISTOR 2.4K OHM 1/8W		A
C-5 R623 C-5 R701	NY7-0885-000 NY7-0901-000		1 1	RESISTOR 680 OHM 1/8W		Ι Λ
C-5 R702	NY7-0872-000	j	Ιi	RESISTOR 1K OHM 1/8W		A
C-5 R708	NY7-0887-000		Ιi	RESISTOR 24K OHM 1/8W		Δ
C-5 R711	NY7-0872-000		li	RESISTOR 1K OHM 1/8W		Ι Λ· · · · · · · · · · · · · · · · · · ·
C-5 R712	NY7-0889-000	l	1	RESISTOR 27K OHM 1/8W		Ι Δ
C-5 R713	NY7-0878-000		1 1	RESISTOR 18K OHM 1/8W		Α
C-5 R714	NY7-0888-000		Ιί	RESISTOR 2.7K OHM 1/8W		A
C-5 R716	NY7-0840-000		Ιί	RESISTOR 18 OHM 1/2W	1	A
C-5 R717	NY7-0871-000	i	Ιi	RESISTOR 100 OHM 1/8W		Δ
C-5 R718	NY7-0904-000		Ιi	RESISTOR 5.6 OHM 1/2W		A
C-5 R719	NY7-0904-000		Ιi	RESISTOR 5.6 OHM 1/2W	j	A
C-5 R721	NY7-0884-000		Ιi	RESISTOR 220K OHM 1/8W		A
C-5 R722	NY7-0873-000		Ιi	RESISTOR 100K OHM 1/8W		A
C-5 R723	NY7-0892-000	1	Ιi	RESISTOR 33K OHM 1/8W	1	A
C-5 R724	NY7-0890-000		l i	RESISTOR 30K OHM 1/8W		A
C-5 R727	NY7-0905-000	1	Ιi	RESISTOR 680 OHM 1/2W	1	A
C-5 R728	NY7-0873-000		Ιi	RESISTOR 100K OHM 1/8W]	A
C-5 R729	NY7-0880-000		Ιi	RESISTOR 180K OHM 1/8W		A
C-5 R730	NY7-0896-000	1	Ιi	RESISTOR 47K OHM 1/8W		A
C-5 R731	NY7-0892-000	l	1 1	RESISTOR 33K OHM 1/8W		A
C-5 R732	NY7-0892-000	Į .	1	RESISTOR 33K OHM 1/8W	l	A
C-5 R733	NY7-0892-000	1	1	RESISTOR 33K OHM 1/8W		A
C-5 R901	NY7-0912-000		1	METAL RESISTOR 0.39 OHM 1W		A
C-5 R902	NY7-0903-000		1	RESISTOR 150K OHM 1/2W		A
C-5 R903	NY7-0907-000		1	METAL OXIDE RES. 68K OHM 5W		A
C-5 R904	NY7-0870-000	l	1	RESISTOR 10 OHM 1/8W		A
C-5 R905	NY7-0914-000	l	1	METAL OXIDE RESISTOR 15 OHM 2W		A
C-5 R906	NY7-0917-000	ł	1	METAL OXIDE RESISTOR 33 OHM 3W		A
C-5 R907	NY7-0879-000		1	RESISTOR 18K OHM 1/8W		A
C-5 R908	NY7-0915-000		1	METAL OXIDE RES. 47K OHM 2W		A
C-5 R909	NY7-0900-000	ŀ	1	RESISTOR 56K OHM 1/8W	1	A
C-5 R910	NY7-0894-000		1	RESISTOR 470 OHM 1/8W	1	A
C-5 R911	NY7-0877-000		1	RESISTOR 160 OHM 1/8W	1	A
C-5 R912	NY7-0871-000]	1	RESISTOR 100 OHM 1/8W	1	[A
C-5 R913	NY7-0903-000	1	!	RESISTOR 150K OHM 1/2W	}	[A
C-5 SG301	NY7-0800-000	I	1	SPARK GAP		A
C-5 SG302	NY7-0800-000]	!	SPARK GAP	1	H
C-5 SG303	NY7-0800-000	l	1	SPARK GAP	1	A
C-5 T701	NY7-0845-000	1	1	TRANSFORMER (H.DRIVER)		A
C-5 1702	NY7-0839-000	1	1 1	TRANSFORMER (F.B.T.)		A
C-5 T901	NY7-0919-000	1	!	TRANSFORMER		A
C-5 TH901	NY7-0930-000	1	1	THERMISTOR		A
C-5 VR301	NY7-0923-000		!	VARIABLE RESISTOR 470 OHM		A
C-5 VR601	NY7-0922-000		1	VARIABLE RESISTOR 220K OHM	1	A
C-5 VR603	NY7-0920-000		1	VARIABLE RESISTOR 100K OHM		A
C-5 VR604	NY7-0920-000		1 1	VARIABLE RESISTOR 100K OHM		A
C-5 VR702 C-5 VR703	NY7-0921-000	1	1	VARIABLE RESISTOR 1K OHM		A
C-5 VR703 C-5 VR704	NY7-0924-000 NY7-0844-000	1		VARIABLE RESISTOR 220K OHM VARIABLE RESISTOR 3.3M		A
U-3 VN104	1111-0044-000	l		ANUTHORE DESIGNOR 2+9M		M

C-17

"RaskinDoc062_C-17.PICT" 700 KB 2000-02-25 dpi: 1000h x 1000v pix: 4638h x 7405v

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C-6. MICRO FDD UNIT [COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

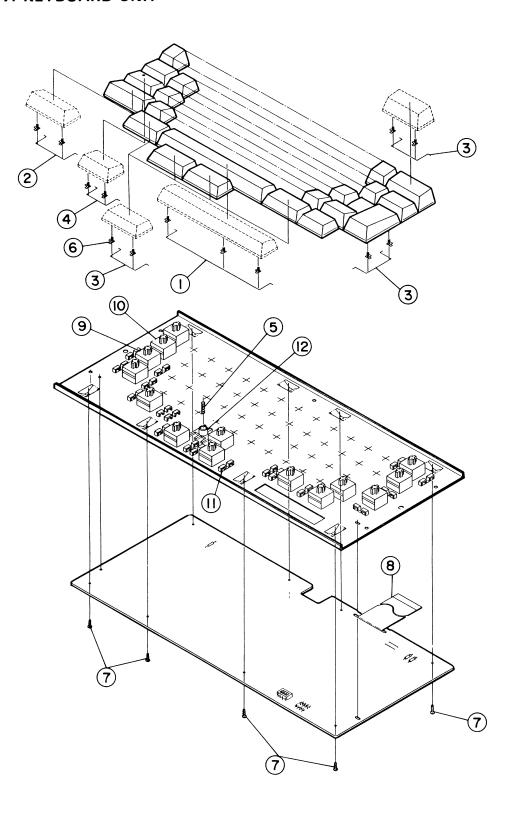
A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA R: JAPAN

B: ASIA C: OCEANIA N: U.K. 0: SPAIN

F: LATIN(230V) J: NETHERLAND
G: NORWAY K: W.GERMANY
H: DENMARK L: SWITZERLAND H: DENMARK L: SWITZERLAND P: ITALY D: QUEBEC

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
C-6 1 C-6 2 C-6 3 C-6 4 C-6 5 C-6 6 C-6 7 C-6 8 C-6 9 C-6 10 C-6 11 C-6 12 C-6 13 C-6 14 C-6 15	NY7-9166-000 NY7-9168-000 NY7-9169-000 NY7-9171-000 NY7-9175-000 NY7-9175-000 NY7-9180-000 NY7-9182-000 NY7-9182-000 NY7-9182-000 NY7-9246-000 NY7-9248-000 NY7-9249-000		1 3 1 1 1 1 1 1 1 1 1 1 1	BASE CASE SCREW FRAME (LEFT) FRAME (RIGHT.2) SCREW INSULATION SHEET SHAFT, HEAD GUIDE LED ASSEMBLY INDEX SENSOR UPPER CASE FRONT PANEL FRAME (RIGHT.1) HEAD MOTOR ASSEMBLY FOD PCB ASSEMBLY (CEM-3/CU18) HEAD UNIT	* * * * * *	ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR ABCDEFGHI JKLMNOPQR
C-6 16 C-6 17 C-6 18 C-6 19 C-6 20 C-6 21 C-6 22	NY7-9188-000 NY7-9250-000 XA1-1200-207 XA4-6260-507 XA1-7170-187 XA1-7250-807 XA1-6250-357		1 1 1 6 4 1 2	TRACK .00 SWITCH ASSEMBLY EJECT KNOB ASSEMBLY SCREW, PH M2X2 SCREW, PH M2.6X5 SCREW, PH M1.7X1.8 SCREW, PH M2.5X8 SCREW, PH M2.5X3.5	* * * * *	ABCDEFGHI JKLMNOPQRABCDEFGHI JKLMNOPQRABCDEFGHI JKLMNOPQRABCDEFGHI JKLMNOPQRABCDEFGHI JKLMNOPQRABCDEFGHI JKLMNOPQRABCDEFGHI JKLMNOPQRABCDEFGHI JKLMNOPQR.

C-7. KEYBOARD UNIT



C-19

"RaskinDoc062_C-19.PICT" 541 KB 2000-02-25 dpi: 1000h x 1000v pix: 4318h x 7406v

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C-7. KEYBOARD UNIT [COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA
B: ASIA F: LATIN(230V) J: NETHERLAND N: U.K. R: JAPAN
C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN

B: ASIA C: OCEANIA D: QUEBEC G: NORWAY H: DENMARK L: SWITZERLAND P: ITALY D: QUEBEC h: Denmark

FIGURE & KEY NO.	PART NUMBER	rank	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
C-7 C-7 C-7 1 C-7 2 C-7 2 C-7 3 C-7 4 C-7 5 C-7 6 C-7 6 C-7 6 C-7 7 C-7 8 C-7 9 C-7 10 C-7 10 C-7 11 C-7 11 C-7 11 C-7 11 C-7 11 C-7 12 C-7 R 1	WA1-0068-000 WA1-0068-000 NY7-4555-000 NY7-4556-000 NY7-4558-000 NY7-4560-000 NY7-4560-000 NY7-4561-000 NY7-4562-000 NY7-4564-000 NY7-4564-000 NY7-4565-000 NY7-4565-000 NY7-4565-000 NY7-4565-000 NY7-4565-000 NY7-4566-000		59 61 1 1 6 1 19 17 10 1 58 60 18 16 1	DIODE 1S2075 DIODE 1S2075 LEVER (6U) LEVER (2.25U) LEVER (2.25U) LEVER (1.75U) SPRING, SPACE KEY LEVER HOLDER LEVER HOLDER SCREW, PH M2.6X6 KEYBOARD CABLE PUSH SWITCH PUSH SWITCH PUSH SWITCH HOOK HOOK GUIDE, SPACE RESISTOR 1K OHM 1/4W	* * * * * * * * * * * * * * * * * * * *	ABCD

C-20

"RaskinDoc062_C-20.PICT" 186 KB 2000-02-25 dpi: 500h x 500v pix: 2342h x 3696v

Source: David T. Craig

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Source: David T. Craig

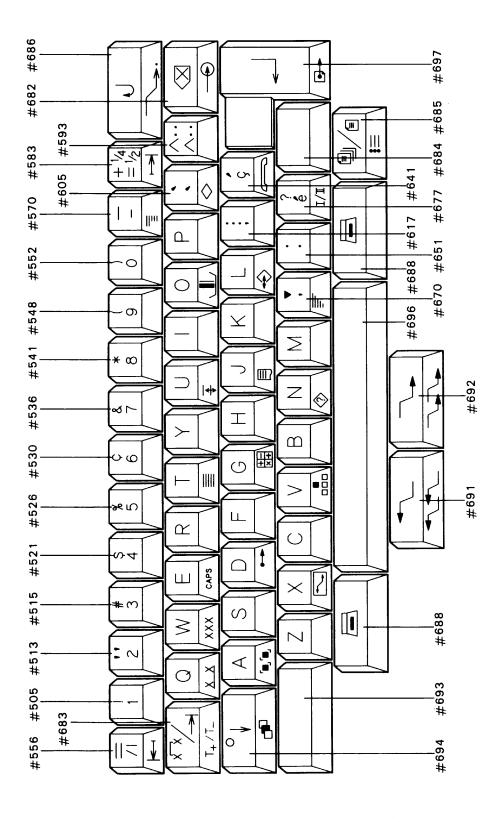
C-8. KEYTOPS (USA/CANADA/ASIA/OCEANIA) [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY A: USA/CANADA B: ASIA C: OCEANIA

D: QUEBEC

FIGURE		Γ					COUNTRY CODE
&	PART NUMBER	RANK	Q'TY		DESCRIPTION	REMARKS	
KEY NO.							ABCDEFGHIJKLMNOPQR
C-8	NY7-4790-000		1	KEYTOP	(#505)	*	ABCDIJKR
C-8	NY7-4797-000		1	KEYTOP	(#512)	*	ABC
C-8	NY7-4800-000		1 1	KEYTOP	(#515)	*	ABCDEFRR.
C-8	NY7-4806-000		1 1	KEYTOP	(#521) (#500)	*	ABCDEFGHIJKLR
C-8 C-8	NY7-4811-000 NY7-4815-000			KEYTOP KEYTOP	(#526) (#530)	*	ABCDEFGHIJKLQR
C-8	NY7-4821-000		Ιi	KEYTOP	(#536)	*	ABCDEFNR
C-8	NY7-4826-000		Ιi	KEYTOP	(#541)	*	ABCD
C-8	NY7-4833-000		Ιi	KEYTOP	(#548)	*	ABCDEFNR
C-8	NY7-4837-000		1	KEYT0P	(#552)	*	ABCDEFNR
C-8	NY7-4840-000		1	KEYTOP	(#555)	*	ABC
C-8	NY7-4853-000		1	KEYTOP	(#569)	*	ABCRR
C-8	NY7-4865-000		!	KEYTOP	(#581)	*	ABCN
C-8	NY7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-8 C-8	NY7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-8	NY7-4877-000 NY7-4879-000		1 1	KEYTOP KEYTOP	P	* *	ABCDEFGHIJKLMNOPQR
C-8	NY7-4882-000		li	KEYTOP	(#592)	*	ABC
Č-8	NY7-4894-000		Ιi	KEYTOP	Q	*	ABCGHIJNQR
C-8	NY7-4896-000		i	KEYTOP	Ŵ	*	ABCGHIJNQR
C-8	NY7-4898-000		1	KEYTOP	Ê	*	ABCDEFGHIJKLMNOPQR
C-8	NY7-4899-000		1	KEYTOP	Т	*	ABCGHIJNQR
C-8	NY7-4901-000		1	KEYTOP	Ŭ	*	ABCOGHIJNQR
C-8	NY7-4903-000		1	KEYTOP	0	*	ABC
C-8 C-8	NY7-4907-000		1	KEYTOP	(#604)	* *	ABCABCDEFGHIJKLMNOPQR
C-8	NY7-4920-000 NY7-4921-000	l	1	KEYTOP KEYTOP	S F	* *	ABCDEFGHIJKLMNOPQR
C-8	NY7-4922-000			KEYTOP	H	*	ABCDEFGHIJKLMNOPQR
C-8	NY7-4923-000		1	KEYTOP	K	*	ABCDEFGHIJKLMNOPQR
C-8	NY7-4925-000		1	KEYTOP	(#617)	*	ABCD
C-8	NY7-4944-000		1	KEYTOP	A	*	ABCGHIJNQR
C-8	NY7-4946-000		1	KEYTOP	Ď	*	ABCGHIJNQR
C-8	NY7-4948-000		1	KEYTOP	Ģ	*	ABCGHIJNQR
C-8	NY7-4950-000		1	KEYTOP	J	*	ABCGHIJNQR
C-8 C-8	NY7-4952-000 NY7-4959-000		1	KEYTOP	L (#640)	*	ABCGHIJNQR
C-8	NY7-4969-000	İ	li	KEYTOP KEYTOP	(#040) Z	*	ABCDEFGHIJNO.QR
C-8	NY7-4970-000		li	KEYTOP	Č	*	ABCDEFGHIJKLMNOPQR
Č-8	NY7-4971-000		li	KEYTOP	B	*	ABCDEFGHIJKLMNOPQR
C-8	NY7-4972-000		ĺi	KEYTOP	M	*	ABCDEFGHIJKL.NOPQR
C-8	NY7-4976-000]	1	KEYTOP	(#651)	*	ABCDEFNQR
C-8	NY7-4993-000		1	KEYTOP	X	*	ABCGHIJNQR
C-8	NY7-4995-000		1 1	KEYTOP	V	*	ABCGHIJNQR
C-8	NY7-4997-000	1	1	KEYTOP	N (HCCO)	*	ABCGHIJNQR
C-8 C-8	NY7-4999-000 NY7-8007-000		1 1	KEYTOP KEYTOP	(#668) (#675)	*	ABCQR
C-8	NY7-8007-000 NY7-8016-000		Ι¦	KEYTOP	PERM SPACE/TAB	*	ABCGHIJNQR
C-8	NY7-8018-000		Ιί	KEYTOP	ERASE	*	ABCGHIJNQR
l C-8	NY7-8020-000		li	KEYTOP		*	ABC. GHIJ. N. QR.
C-8	NY7-8021-000		i		DOCUMENT/PAGE	*	ABCGHIJNQR
C-8	NY7-8023-000		1	KEYTOP	UNDO	*	ABCNR
C-8	NY7-8027-000		2		USE FRONT	*	ABCGHIJNQR
C-8	NY7-8029-000		1	KEYTOP		*	ABCGHIJNQR
C-8	NY7-8030-000		1 1		(#690)	*	ABCGHIJNQR
C-8 C-8	NY7-8034-000			KEYTOP	SHIFT	*	ABCRR.
C-8	NY7-8037-000 NY7-8039-000			KEYTOP KEYTOP		*	ABCGHIJNQR
C-8	NY7-8040-000			KEYTOP	RETURN	*	ABCR.
	1	L	<u> </u>	1		<u> </u>	

C-9. KEYTOPS (QUEBEC)



C-23

"RaskinDoc062_C-23.PICT" 256 KB 2000-02-25 dpi: 500h x 500v pix: 2220h x 3710v

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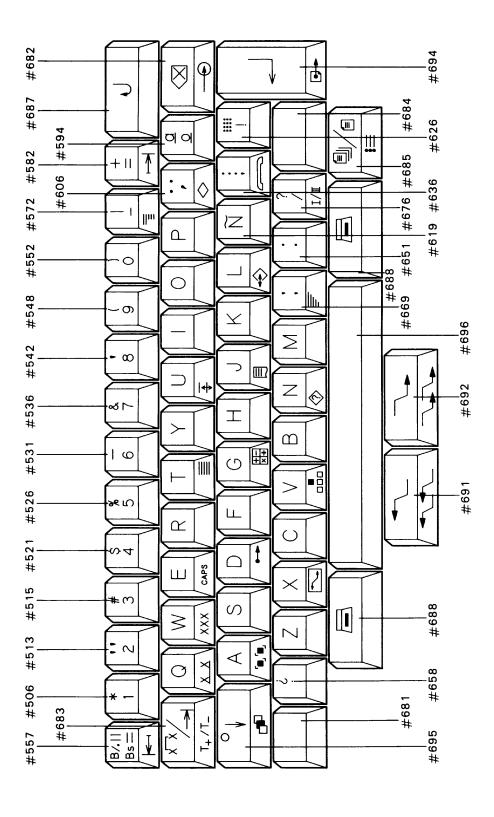
C-9. KEYTOPS (QUEBEC) [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

E: LATIN(115V) F: LATIN(230V) G: NORWAY H: DENMARK A: USA/CANADA B: ASIA C: OCEANIA I: SWEDEN/FINLAND M: FRANCE J: NETHERLANDS N: U.K. K: W.GERMANY O: SPAIN Q: S.AFRICA R: JAPAN

D: QUEBEC L: SWITZERLAND P: ITALY

FIGURE						COUNTRY CODE
& KEY NO.	Part Number	RANK	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-9	NY7-4790-000		1	KEYTOP (#505)	*	ABCDIJKR
Č-9	NY7-4798-000	l	li	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
Č-9	NY7-4800-000		li	KEYTOP (#515)	*	ABCDEFR
C-9	NY7-4806-000		li	KEYTOP (#521)	*	ABCDEFGHIJKLR
C-9	NY7-4811-000		li	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-9	NY7-4815-000		1 1	KEYTOP (#530)	*	ABCD
C-9	NY7-4821-000	l	1 1	KEYTOP (#536)	*	ABCDEFNR
C-9	NY7-4826-000		1	KEYTOP (#541)	*	ABCD
C-9	NY7-4833-000	1	1	KEYTOP (#548)	*	ABCDEF
C-9	NY7-4837-000		1	KEYTOP (#552)	*	ABCOEF
C-9	NY7-4841-000		1 1	KEYTOP (#556)	*	D
C-9	NY7-4854-000		1	KEYTOP (#570)	*	D
C-9	NY7-4867-000		1	KEYTOP (#583)	*	O
C-9	NY7-4875-000		1	KEYTOP R	*	ABCOEFGHIJKLMNOPQR
C-9	NY7-4876-000		1	KEYTOP Y	*	ABCOEFGHIJMNOPQR
C-9	NY7-4877-000		1	KEYTOP I	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-4879-000		1 1	KEYTOP P	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-4883-000		1	KEYTOP (#593)	*	D
C-9	NY7-4895-000		1 1	KEYTOP Q	*	DEFKLOP
C-9	NY7-4897-000	i	1	KEYTOP W	*	DEFKLO
C-9	NY7-4898-000		1 1	KEYTOP E	*	ABCDEFGHIJKLMNOPQR
C-9 C-9	NY7-4900-000		1	KEYTOP T KEYTOP U	*	DEFKLM.OP
C-9	NY7-4902-000 NY7-4904-000		1 1	KEYTOP U KEYTOP O	*	DK.M
C-9	NY7-4908-000	i		KEYTOP (#605)	*	D
C-9	NY7-4920-000	1		KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-4921-000	l		KEYTOP F	*	ABCDEFGHIJKLMNOPQR
Č-9	NY7-4922-000		li	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-4923-000	l	li	KEYTOP K	*	ABCOEFGHIJKLMNOPQR
C-9	NY7-4925-000	l	lil	KEYTOP (#617)	*	ABCDR
C-9	NY7-4945-000	l	li	KEYTOP A	*	DEFKLOP
C-9	NY7-4947-000	İ	1 1	KEYTOP D	*	DEFKLM.OP
C-9	NY7-4949-000	l	1	KEYTOP G	*	DEFKLM.OP
C-9	NY7-4951-000	l	1	KEYTOP J	*	DEFKLM.OP
C-9	NY7-4953-000	ŀ	1	KEYTOP L	*	DEFKLM.OP
C-9	NY7-4960-000		1	KEYTOP (#641)	*	D
C-9	NY7-4969-000		1	KEYTOP Z	*	ABCDEFGHIJNO.QR
C-9	NY7-4970-000	1	1 1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-4971-000	l	1 1	KEYTOP B	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-4972-000		1 1	KEYTOP M	*	ABCOEFGHIJKL.NOPQR
C-9	NY7-4976-000	1	1 1	KEYTOP (#651)	*	ABCOEFNQR
C-9 C-9	NY7-4994-000	l	1	KEYTOP X	*	DEFKLM.OP
C-9	NY7-4996-000 NY7-4998-000	1	1 1	KEYTOP V KEYTOP N	*	DEFKLM.OP
C-9	NY7-8002-000		¦	KEYTOP N KEYTOP (#670)	* *	DEFNLM.UP
C-9	NY7-8002-000	1		KEYTOP (#677)	*	D
C-9	NY7-8015-000			KEYTOP (#682)	*	DEFKLM.OP
C-9	NY7-8013-000			KEYTOP (#683)	*	DEFKLM.OP
C-9	NY7-8019-000			KEYTOP (#684)	*	DEFKLM.OP
Č-9	NY7-8022-000	1		KEYTOP (#685)	*	DEFKLM.OP
C-9	NY7-8024-000	l	ΙiΙ	KEYTOP (#686)	*	DK.M
C-9	NY7-8028-000	l	ĺż	KEYTOP (#688)	*	DEFKLM.OP
C-9	NY7-8031-000	l	1	KEYTOP (#691)	*	DEFKLM.OP
C-9	NY7-8032-000	1	1	KEYTOP (#692)	*	DEFKLM.OP
C-9	NY7-8033-000		1	KEYTOP (#693)	*	D
C-9	NY7-8038-000		1	KEYTOP (#695)	*	DEFKLM.OP
C-9	NY7-8039-000		1	KEYTOP (#696)	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-8041-000		1	KEYTOP (#697)	*	D
	L				L	

C-10. KEYTOPS (LATIN)



C-25

"RaskinDoc062_C-25.PICT" 257 KB 2000-02-25 dpi: 500h x 500v pix: 2235h x 3739v

Source: David T. Craig

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C-10. KEYTOPS (LATIN) [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE: A: USA/CANADA E: LATIN(115V) I: B: ASIA F: LATIN(230V) J: C: OCEANIA G: NORWAY K: D: QUEBEC H: DENMARK L:

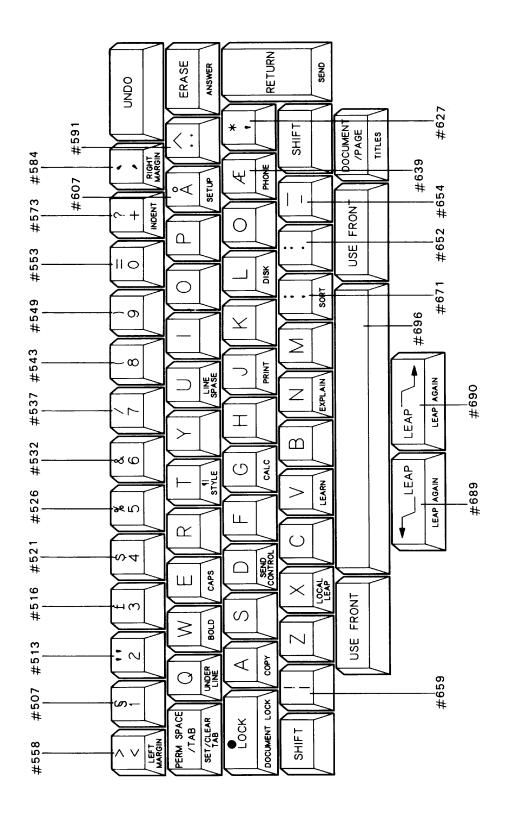
E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY

C-10	FIGURE	PART NUMBER	rank	Q'TY	DESCRIPTION	DEMADAS	COUNTRY CODE
C-10		PHOL NUMBER	INHIN	411	DESCRIPTION	REMARKS	ABCDEFGHIJKLWNOPQR
C-10 NY7-800-000 1 KEYTOP (#515) ** ABCOEFFIR. C-10 NY7-8011-000 1 KEYTOP (#526) ** ABCOEFFIR. C-10 NY7-8011-000 1 KEYTOP (#536) ** ABCOEFFIR. C-10 NY7-8011-000 1 KEYTOP (#536) ** ABCOEFFIR. C-10 NY7-8021-000 1 KEYTOP (#536) ** ABCOEFFIR. C-10 NY7-8021-000 1 KEYTOP (#536) ** ABCOEFFIR. C-10 NY7-8021-000 1 KEYTOP (#542) ** ABCOEFFIR. C-10 NY7-8023-000 1 KEYTOP (#542) ** ABCOEFFR. C-10 NY7-8023-000 1 KEYTOP (#542) ** ABCOEFR. C-10 NY7-8023-000 1 KEYTOP (#552) ** ABCOEFR. C-10 NY7-8023-000 1 KEYTOP (#552) ** ABCOEFR. C-10 NY7-8025-000 1 KEYTOP (#562) ** ABCOEFR. C-10 NY7-8025-000 1 KEYTOP (#562) ** ABCOEFR. C-10 NY7-8025-000 1 KEYTOP (#562) ** ABCOEFR. C-10 NY7-8025-000 1 KEYTOP Y ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP Y ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP Q- (#594) ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP Q- (#594) ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP W ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP W ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KEYTOP D ** ABCOEFGIKINOPOR. C-10 NY7-8025-000 1 KE							
C-10 NY7-481-000 1 REYTOP (#586) * ABCDEFFHI.NI. OR	C-10					H .	
C-10 NY7-4827-000 1 KEYTOP (#581) *	1					1 '	
C-10 NY7-4827-000 1 KEY10P (#586) * AGDEF N. R. C-10 NY7-4827-000 1 KEY10P (#582) * AGDEF N. R. C-10 NY7-4837-000 1 KEY10P (#588) * AGDEF N. R. C-10 NY7-4837-000 1 KEY10P (#587) * AGDEF N. R. C-10 NY7-4837-000 1 KEY10P (#587) * AGDEF N. R. C-10 NY7-4836-000 1 KEY10P (#587) * EF. C-10 NY7-4856-000 1 KEY10P (#5872) * EF. C-10 NY7-4856-000 1 KEY10P (#582) * EF. C-10 NY7-4856-000 1 KEY10P (#582) * EF. C-10 NY7-4876-000 1 KEY10P Y * AGDEFSHIJKI, IMMORG. C-10 NY7-4876-000 1 KEY10P Y * AGDEFSHIJKI, IMMORG. C-10 NY7-4878-000 1 KEY10P Y * AGDEFSHIJKI, IMMORG. C-10 NY7-4878-000 1 KEY10P D * AGDEFSHIJKI, IMMORG. C-10 NY7-4878-000 1 KEY10P D * AGDEFSHIJKI, IMMORG. C-10 NY7-4878-000 1 KEY10P D * AGDEFSHIJKI, IMMORG. C-10 NY7-4888-000 1 KEY10P D * AGDEFSHIJKI, IMMORG. C-10 NY7-4889-000 1 KEY10P D * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W * AGDEFSHIJKI, IMMORG. C-10 NY7-4899-000 1 KEY10P D W *							
C-10 NY7-4833-000		NY7-4821-000		1	KEYTOP (#536)	*	ABCDEFNR
C-10 NY7-4827-000 1 KEYTOP (#552) * ABCOEF. N. R. C-10 NY7-4826-000 1 KEYTOP (#572) * EF. C-10 NY7-4856-000 1 KEYTOP (#572) * EF. C-10 NY7-4856-000 1 KEYTOP (#572) * EF. C-10 NY7-4876-000 1 KEYTOP (#572) * EF. C-10 NY7-4876-000 1 KEYTOP R ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4876-000 1 KEYTOP I ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4878-000 1 KEYTOP I ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4878-000 1 KEYTOP J ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4878-000 1 KEYTOP (#594) * EF. C-10 NY7-48884-000 1 KEYTOP (#594) * EF. C-10 NY7-4898-000 1 KEYTOP G Q * DEF. KIOP. C-10 NY7-4897-000 1 KEYTOP E ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4997-000 1 KEYTOP E ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4997-000 1 KEYTOP E ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4909-000 1 KEYTOP E ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4909-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4909-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4921-000 1 KEYTOP J ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4922-000 1 KEYTOP J ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4922-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4922-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4922-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4922-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4922-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4922-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4922-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4927-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4928-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4928-000 1 KEYTOP B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4928-000 1 KEYTOP B B ABCOEFGIJ.KI.MNOPOR. C-10 NY7-4928-000 1 KEYTOP B B B ABCOEFGIJ.KI.MNOPOR. C-							APPOET N D
C-10 NYT-4866-000 1 KEYTOP (#557) * EF. C-10 NYT-4866-000 1 KEYTOP (#562) * EF. C-10 NYT-4866-000 1 KEYTOP (#582) * EF. C-10 NYT-4876-000 1 KEYTOP R C-10 NYT-4876-000 1 KEYTOP R C-10 NYT-4876-000 1 KEYTOP R C-10 NYT-4876-000 1 KEYTOP I * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4878-000 1 KEYTOP J * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4878-000 1 KEYTOP P * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4878-000 1 KEYTOP P * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4878-000 1 KEYTOP P * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4884-000 1 KEYTOP Q * DEF. KIOP. C-10 NYT-4883-000 1 KEYTOP W * DEF. KIOP. C-10 NYT-4888-000 1 KEYTOP W * DEF. KIOP. C-10 NYT-4898-000 1 KEYTOP T * DEF. KIOP. C-10 NYT-4898-000 1 KEYTOP T * DEF. KIOP. C-10 NYT-4992-000 1 KEYTOP T * DEF. KIOP. C-10 NYT-4992-000 1 KEYTOP F * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4920-000 1 KEYTOP F * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4920-000 1 KEYTOP F * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4920-000 1 KEYTOP F * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4920-000 1 KEYTOP F * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4922-000 1 KEYTOP F * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4922-000 1 KEYTOP F * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4923-000 1 KEYTOP F * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4927-000 1 KEYTOP F * ABCOEFGITJ.KI.MNDOR. C-10 NYT-4932-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4933-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4935-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4935-000 1 KEYTOP D * BEE. KOP. C-10 NYT-4935-000 1 KEYTOP D * BEE. KOP. C-10 NYT-4935-000 1 KEYTOP D * BEE. KOP. C-10 NYT-4935-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10 NYT-4938-000 1 KEYTOP G * BEE. KOP. C-10						1 '	ABCDEFNR
C-10 NY7-4876-000 1 KEYTOP (#582) * *							EF
C-10 NY7-4875-000 1 KEYTOP Y					::::::::::::::::::::::::::::::::::::::	1 .	FF
C-10 NY7-4877-000	C-10	NY7-4875-000		1	KEYTOP R	1	ABCDEFGHIJKLMNOPQR
C-10 NY7-4878-000 1 KEYTOP P						· ·	ABCDEFGHIJMNOPQR
C-10 NY7-4887-000							
C-10 NY7-4895-000 1 KEYTOP Q * DEF. KL.OP. C-10 NY7-4897-000 1 KEYTOP E * ABODEFGITJ.KLM/OPGN. C-10 NY7-4898-000 1 KEYTOP T * DEF. KL.M.OP. C-10 NY7-4902-000 1 KEYTOP U * DEF. KL.M.OP. C-10 NY7-4909-000 1 KEYTOP U * DEF. KL.M.OP. C-10 NY7-4929-000 1 KEYTOP (#606) * DEF. KLM.OP. C-10 NY7-4921-000 1 KEYTOP F * ABODEFGITJ.KLM/OPGN. C-10 NY7-4922-000 1 KEYTOP F * ABODEFGITJ.KLM/OPGN. C-10 NY7-4922-000 1 KEYTOP H * ABODEFGITJ.KLM/OPGN. C-10 NY7-4922-000 1 KEYTOP H * ABODEFGITJ.KLM/OPGN. C-10 NY7-4922-000 1 KEYTOP K * ABODEFGITJ.KLM/OPGN. C-10 NY7-4927-000 1 KEYTOP (#619) * DEF. KLM.OP. C-10 NY7-4927-000 1 KEYTOP (#619) * DEF. KLM.OP. C-10 NY7-4947-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4947-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4947-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4948-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4951-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4951-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4951-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4951-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4951-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4951-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4983-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4983-000 1 KEYTOP C * ABODEFGITJ.KLM/OPGN. C-10 NY7-4989-000 1 KEYTOP C * ABODEFGITJ.KLM/OPGN. C-10 NY7-4989-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4989-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4989-000 1 KEYTOP D * DEF. KLM.OP. C-10 NY7-4989-000 1 KEYTOP M * ABODEFGITJ.KLM/OPGN. C-10 NY7-4989-000 1 KEYTOP M * ABODEFGITJ.KLM/OPGN. C-10 NY7-4989-000 1 KEYTOP M * DEF. KLM.OP. C-10 NY7-4989-000 1 KEYTOP M-S880 * DEF. KLM.OP. C-10 NY7-8901-000 1 KEYTOP M-S880 * DEF. KLM.OP. C-10 NY7-8901-000 1 KEYTOP M-S880 * DEF. KLM.OP. C-10 NY7-8013-000 1 KEYTOP M-S880 * DEF. KLM.OP. C-10 NY7-8013-000 1 KEYTOP M-S880 * DEF. KLM.OP. C-10 NY7-8013-000 1 KEYTOP M-S880 * DEF. KLM.OP. C-10 NY7-8013-000 1 KEYTOP M-S880 * DEF. KLM.OP. C-10 NY7-8013-000 1 KEYTOP M-S880 * DEF. KLM.OP. C-10 NY7-8038-000 1 KEYTOP M-S880 * DEF. KLM.OP. C-10 NY7-8038-000 1 KEYTOP M-S880 * DEF. KLM.OP. C-10 NY7-8038-000 1 KEYTOP M-S890 * DEF. KLM.OP. C-		NY7-4879-000			KEYTOP P	*	ABCDEFGHIJKLMNOPQR
C-10 NY7-4898-000 1 1 KEYTOP E							
C-10 NY7-4902-000 1 KEYTOP T	C-10	NY7-4897-000		1	KEYTOP W	*	DEFKLO
C-10 NY7-4909-000 1 KEYTOP (#606) *							ABCDEFGHIJKLMNOPQR
C-10 NY7-4929-000 1 KEYTOP S * ABOEFGHIJKLMNOPQR. C-10 NY7-4921-000 1 KEYTOP F * ABOEFGHIJKLMNOPQR. C-10 NY7-4922-000 1 KEYTOP H * ABOEFGHIJKLMNOPQR. C-10 NY7-4923-000 1 KEYTOP H * ABOEFGHIJKLMNOPQR. C-10 NY7-4923-000 1 KEYTOP K * ABOEFGHIJKLMNOPQR. C-10 NY7-4927-000 1 KEYTOP (#619) * EF 0 C-10 NY7-4934-000 1 KEYTOP (#626) * EF 0 C-10 NY7-4934-000 1 KEYTOP D * DEF .KL. 0.0. C-10 NY7-4934-000 1 KEYTOP D * DEF .KL. 0.0. C-10 NY7-4934-000 1 KEYTOP D * DEF .KL. 0.0. C-10 NY7-4935-000 1 KEYTOP J * DEF .KL. 0.0. C-10 NY7-4951-000 1 KEYTOP J * DEF .KL. 0.0. C-10 NY7-4955-000 1 KEYTOP J * DEF .KL. 0.0. C-10 NY7-4955-000 1 KEYTOP C * DEF .KL. 0.0. C-10 NY7-4970-000 1 KEYTOP C * ABOEFGHIJKLMNOPQR. C-10 NY7-4970-000 1 KEYTOP C * ABOEFGHIJKLMNOPQR. C-10 NY7-4970-000 1 KEYTOP C * ABOEFGHIJKLMNOPQR. C-10 NY7-4971-000 1 KEYTOP C * ABOEFGHIJKLMNOPQR. C-10 NY7-4971-000 1 KEYTOP M * ABOEFGHIJKLMNOPQR. C-10 NY7-4970-000 1 KEYTOP M * ABOEFGHIJKLMNOPQR. C-10 NY7-4970-000 1 KEYTOP M * ABOEFGHIJKLNNOPQR. C-10 NY7-4983-000 1 KEYTOP M * ABOEFGHIJKLNNOPQR. C-10 NY7-4980-000 1 KEYTOP M * ABOEFGHIJKLNNOPQR. C-10 NY7-4980-000 1 KEYTOP N * ABOEFGHIJKLNOPQR. C-10 NY7-4980-000 1 KEYTOP N * DEF .KLM. 0.0. C-10 NY7-4980-000 1 KEYTOP N * DEF .KLM. 0.0. C-10 NY7-4980-000 1 KEYTOP M * ABOEFGHIJKLNOPQR. C-10 NY7-4980-000 1 KEYTOP M * ABOEFGHIJKLNOPQR. C-10 NY7-4980-000 1 KEYTOP N * DEF .KLM. 0.0. C-10 NY7-4980-000 1 KEYTOP M * DEF .KLM. 0.0. C-10 NY7-4980-000 1 KEYTOP (#658) * DEF .KLM. 0.0. C-10 NY7-8017-000 1 KEYTOP (#688) * DEF .KLM. 0.0. C-10 NY7-8017-000 1 KEYTOP (#688) * DEF .KLM. 0.0. C-10 NY7-8017-000 1 KEYTOP (#688) * DEF .KLM. 0.0. C-10 NY7-8018-000 1 KEYTOP (#688) * DEF .KLM. 0.0. C-10 NY7-8018-000 1 KEYTOP (#688) * DEF .KLM. 0.0. C-10 NY7-8018-000 1 KEYTOP (#688) * DEF .KLM. 0.0. C-10 NY7-8018-000 1 KEYTOP (#689) * DEF .KLM. 0.0. C-10 NY7-8018-000 1 KEYTOP (#689) * DEF .KLM. 0.0. C-10 NY7-8018-000 1 KEYTOP (#689) * DEF .KLM. 0.0. C-10 NY7-8018-000 1 KEYTOP (#689) * DEF .KLM. 0.0. C-10 NY7-8018-000 1 KEYTOP (#689) * DEF	C-10	NY7-4902-000					DEFKLM.OP
C-10 NY7-4921-000							EF
C-10 NY7-4922-000 1 KEYTOP H			J				
C-10 NY7-4927-000	C-10	NY7-4922-000		1	KEYTOP H	4	ABCDEFGHIJKLMNOPQR
C-10			}			1 -	
C-10	C-10					4 '	
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C-10 NY7-4953-000	C-10						
C-10 NY7-4955-000 1 KEYTOP (#636)	C-10	NY7-4951-000		1	KEYTOP J		DEFKLM.OP
C-10 NY7-4969-000 1 KEYTOP C							DEFKLM.OP
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C-10 NY7-4972-000 1 KEYTOP M					KEYTOP C		ABCDEFGHIJKLMNOPQR
C-10 NY7-4976-000	C-10						
C-10 NY7-4994-000		NY7-4976-000		1	KEYTOP (#651)	*	ABCDEFNQR
C-10 NY7-4996-000 1 KEYTOP V *	C-10		- 1				EF
C-10 NY7-898-000 1 KEYTOP (*669) *	C-10	NY7-4996-000	- 1	1	KEYTOP V	*	DEFKLM.OP
C-10 NY7-8008-000 1 KEYTOP (#676)							DEFKLM.OP
C-10 NY7-8013-000 1 KEYTOP (*681) *EF. KLM.OP. C-10 NY7-8015-000 1 KEYTOP (*682) *DEF. KLM.OP. C-10 NY7-8017-000 1 KEYTOP (*683) *DEF. KLM.OP. C-10 NY7-8019-000 1 KEYTOP (*684) *DEF. KLM.OP. C-10 NY7-8022-000 1 KEYTOP (*685) *DEF. KLM.OP. C-10 NY7-8028-000 1 KEYTOP (*687) *DEF. KLM.OP. C-10 NY7-8028-000 2 KEYTOP (*688) *DEF. KLM.OP. C-10 NY7-8031-000 1 KEYTOP (*688) *DEF. KLM.OP. C-10 NY7-8032-000 1 KEYTOP (*691) *DEF. KLM.OP. C-10 NY7-8032-000 1 KEYTOP (*692) *DEF. KLM.OP. C-10 NY7-8038-000 1 KEYTOP (*694) *DEF. KLM.OP. C-10 NY7-8038-000 1 KEYTOP (*694) *DEF. KLM.OP. C-10 NY7-8038-000 1 KEYTOP (*695) *DEF. KLM.OP.	C-10					l i	
C-10 NY7-8017-000 1 KEYTOP (#683)	C-10		ŀ	1	KEYTOP (#681)	*	EFKLM.OP
C-10 NY7-8019-000 1 KEYTOP (#684)			ļ			*	
C-10 NY7-8022-000 1 KEYTOP (#685)	Ç-10	NY7-8019-000			KEYTOP (#684)	*	
C-10 NY7-8028-000 2 KEYTOP (#688) * DEF. KLM.OP					KEYTOP (#685)		DEFKLM.OP
C-10 NY7-8031-000 1 KEYTOP (#\$91) * DEF. KLM.OP. C-10 NY7-8032-000 1 KEYTOP (#692) * DEF. KLM.OP. C-10 NY7-8036-000 1 KEYTOP (#694) * DEF. KLM.OP. C-10 NY7-8038-000 1 KEYTOP (#695) * DEF. KLM.OP.	C-10		İ				
C-10 NY7-8036-000 1 KEYTOP (#694) *EFKLM.OP	C-10	NY7-8031-000		1	KEYTOP (#691)	*	DEFKLM.OP
C-10 NY7-8038-000 1 KEYTÖP (#695) *DEFKLM, OP			- 1				
C-10 NY7-8039-000 1 KEYTOP (#696) * ABCDEFGHIJKLMNOPQR	C-10	NY7-8038-000			KEYTOP (#695)		DEFKLM.OP
	U-10	NY7-8039-000		1	KEYTOP (#696)	*	ABCDEFGHIJKLMNOPQR

C-26

"RaskinDoc062_C-26.PICT" 416 KB 2000-02-25 dpi: 500h x 500v pix: 2342h x 3724v

C-11. KEYTOPS (NORWAY)



C-27

"RaskinDoc062_C-27.PICT" 258 KB 2000-02-25 dpi: 500h x 500v pix: 2242h x 3710v

Source: David T. Craig

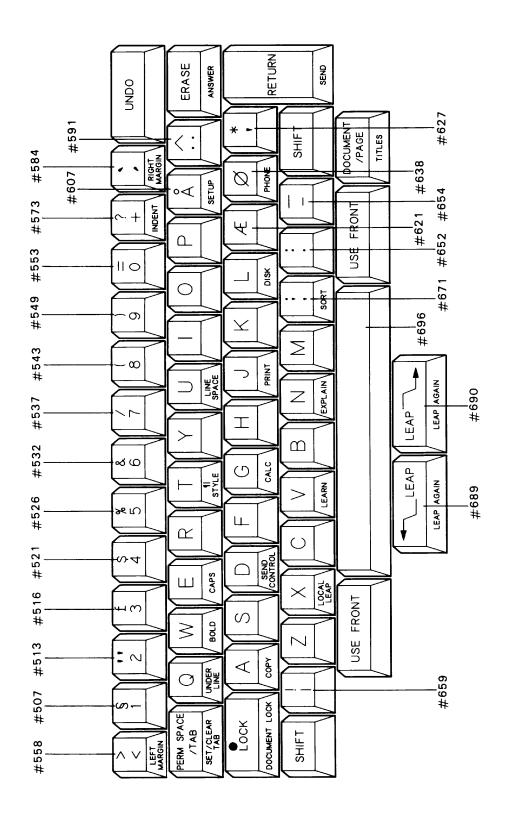
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C-11. KEYTOPS (NORWAY) [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE: A: USA/CANADA E: LATIN(115V) I: SW B: ASIA F: LATIN(230V) J: NE C: OCEANIA G: NORWAY K: W.I D: QUEBEC H: DENMARK L: SW

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY

FIGURE			<u> </u>				COUNTRY CODE
& KEY NO.	PART NUMBER	RANK	Q'TY		DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-11	NY7-4792-000		1	KEYTOP	(#507)	*	GH
C-11	NY7-4798-000		1	KEYTOP	(#513)	*	DEFGHIJKL.NO.Q
C-11	NY7-4801-000	l	1	KEYTOP	(#516)	*	GHIJ
C-11	NY7-4806-000		1 1	KEYTOP	(#521)	*	ABCDEFGHIJKLR
C-11	NY7-4811-000		1	KEYTOP	(#526)	*	ABCDEFGHIJKLQR
C-11 C-11	NY7-4817-000		1 1	KEYTOP	(#532) (#537)	*	GHIJKLO.Q
C-11	NY7-4822-000 NY7-4828-000		1	KEYTOP KEYTOP	(#537) (#543)	*	GHIJKLQ
C-11	NY7-4834-000		1	KEYTOP	(#549)	*	GHIJKLQ.
C-11	NY7-4838-000		i	KEYTOP	(#553)	*	GHIJKLO.Q
C-11	NY7-4843-000		1	KEYTOP	(#558)	*	GH.J
C-11	NY7-4857-000		1	KEYTOP	(#573)	*	GHI
C-11	NY7-4868-000		1	KEYTOP	(#584)	*	QQ
C-11 C-11	NY7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4876-000 NY7-4877-000		1 1	KEYTOP KEYTOP	Y I	*	ABCDEFGHIJMNOPQR
C-11	NY7-4878-000		1	KEYTOP	Ò	*	EFGHIJ.LOPQ
C-11	NY7-4879-000		i	KEYTOP	P	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4881-000		1	KEYTOP	(#591)	*	GH
C-11	NY7-4894-000		1	KEYTOP	Q	*	ABCGHIJNQR
C-11	NY7-4896-000		1	KEYTOP	w	*	ABCGHIJNQR
C-11	NY7-4898-000		1	KEYTOP	Ē	*	ABCDEFGHIJKLMNOPQR
C-11 C-11	NY7-4899-000		1	KEYTOP	Ţ	*	ABCGHIJNQR
C-11	NY7-4901-000 NY7-4910-000		1 1	KEYTOP KEYTOP	U (#607)	*	ABCDGHIJNQRGHI
C-11	NY7-4920-000		i	KEYTOP	S	*	ABCDEFGHIJKLMNOPQR
Č-11	NY7-4921-000		ΙίΙ	KEYTOP	F	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4922-000		1	KEYTOP	H	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4923-000		1	KEYTOP	K	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4928-000		1	KEYTOP	(#620)	*	<u>G</u>
C-11	NY7-4935-000		1	KEYTOP	(#627)	*	GHI
C-11 C-11	NY7-4944-000 NY7-4946-000		1	KEYTOP KEYTOP	A D	*	ABCGHIJNQR ABCGHIJNQR
C-11	NY7-4948-000		i	KEYTOP	G	*	ABC. GHIJ. N. QR.
Č-11	NY7-4950-000		i i	KEYTOP	J	*	ABC. GHIJ. N. QR.
C-11	NY7-4952-000		1	KEYTOP	Ĺ	*	ABCGHIJNQR
C-11	NY7-4958-000		1	KEYTOP	(#639)	*	G
C-11	NY7-4969-000		1	KEYTOP	Z C	*	ABCDEFGHIJNO.QR
C-11	NY7-4970-000		1	KEYTOP	C	*	ABCDEFGHIJKLMNOPQR
C-11 C-11	NY7-4971-000		1	KEYTOP	В	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4972-000 NY7-4977-000		1	KEYTOP KEYTOP	M (#652)	*	ABCDEFGHIJKL.NOPQRGHIJKL.O.
C-11	NY7-4979-000		1	KEYTOP	(#654)	*	GHIJK
C-11	NY7-4984-000		1	KEYTOP	(#659)	*	GH
C-11	NY7-4993-000		1	KEYTOP	X	*	ABCGHIJNQR
C-11	NY7-4995-000		1	KEYTOP	V	*	ABCGHIJNQR
C-11	NY7-4997-000		1	KEYTOP	N (#674)	*	ABCGHIJNQR
C-11 C-11	NY7-8003-000		1	KEYTOP	(#671) Suict	*	GHIJ
C-11 C-11	NY7-8014-000 NY7-8016-000	1	1 1	KEYTOP KEYTOP	SHIFT PERM SPACE/TAB	*	ABCGHIJNQ
C-11	NY7-8018-000		1	KEYTOP	ERASE	*	ABCGHIJNQR
C-11	NY7-8020-000		i	KEYTOP	SHIFT	*	ABC. GHIJ. N. QR.
C-11	NY7-8021-000		1	KEYTOP	DOCUMENT/PAGE	*	ABCGHIJNQR
C-11	NY7-8025-000		1	KEYTOP	UNDO	*	QQ
C-11	NY7-8027-000		2	KEYTOP	USE FRONT	*	ABCGHIJNQR
C-11 C-11	NY7-8029-000		1	KEYTOP	(#689) (#600)	*	ABCGHIJNQR
C-11 C-11	NY7-8030-000 NY7-8035-000		1	KEYTOP	(#690)	*	ABCGHIJNQR
C-11	NY7-8035-000 NY7-8037-000		1	KEYTOP KEYTOP	return Lock	*	ABC. GHIJ. N. Q
C-11	NY7-8039-000		1	KEYTOP	(#696)	*	ABCDEFGHIJKLMNOPQR
		L	_ '		\	<u>L'</u>	POODEL CHITCHERIOL 881++++++

C-12. KEYTOPS (DENMARK)



C-29

"RaskinDoc062_C-29.PICT" 256 KB 2000-02-25 dpi: 500h x 500v pix: 2242h x 3710v

Source: David T. Craig

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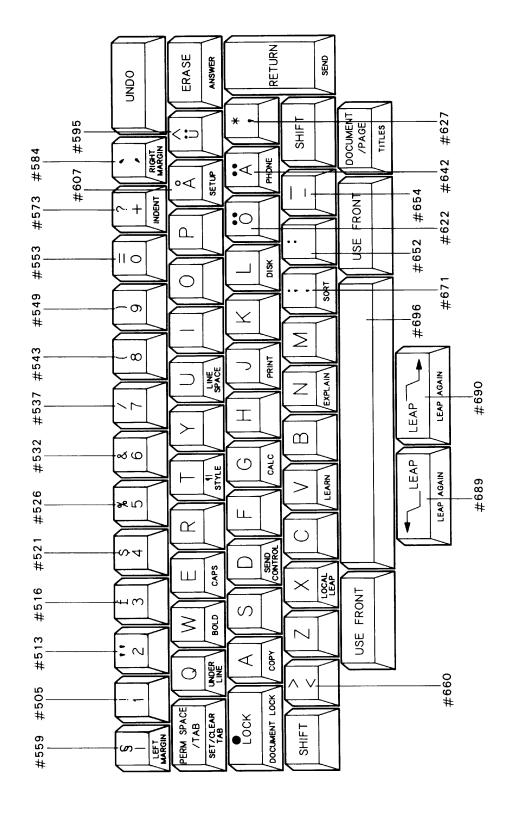
C-12. KEYTOPS (DENMARK)
[COUNTRY CODE:
A: USA/CANADA E: LATIN(115V) I: SWEDI
B: ASIA F: LATIN(230V) J: NETHI
C: OCEANIA G: NORWAY K: W.GEI
D: QUEBEC H: DENMARK L: SWITZ E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY

C-12 NY7-479-000 1 KEYTOP (#517) *	FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY		DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
C-12 MYT-499-000	RET NU.						ļ	ADOUEFURI JALMINUPUR
C-12 MYT-4801-000								
C-12								
C-12 NYT-4817-000 1 KEYTOP (#582) * ASOCFGHIJKL. GR. C. C. C. 12 NYT-4822-000 1 KEYTOP (#532) * G.HIJKL. O. C. C. C. 12 NYT-4822-000 1 KEYTOP (#543) * G.HIJKL. O. C. C. C. 12 NYT-4824-000 1 KEYTOP (#543) * G.HIJKL. O. C. C. C. 12 NYT-4834-000 1 KEYTOP (#549) * G.HIJKL. O. C. C. C. 12 NYT-4834-000 1 KEYTOP (#549) * G.HIJKL. O. C. C. C. 12 NYT-4835-000 1 KEYTOP (#583) * G.HIJKL. O. C. C. C. 12 NYT-4835-000 1 KEYTOP (#584) * G.HIJKL. O. C. C. C. 12 NYT-4835-000 1 KEYTOP (#584) * G.HIJKL. O. C. C. C. 12 NYT-4835-000 1 KEYTOP (#584) * G.HIJKL. O. C. C. C. 12 NYT-4875-000 1 KEYTOP (#584) * G.HIJKL. O. C. C. C. 12 NYT-4875-000 1 KEYTOP (#584) * G.HIJKL. O. C. C. C. 12 NYT-4875-000 1 KEYTOP (#584) * G.HIJKL. O. C. C. C. 12 NYT-4875-000 1 KEYTOP Y ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4875-000 1 KEYTOP Y ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4879-000 1 KEYTOP Y ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4879-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4879-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4879-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4881-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4881-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4881-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4891-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4891-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4891-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4891-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4891-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP D ASOCFGHIJ, MNOPOR. C. C. 12 NYT-4991-000 1 KEYTOP								ABCDEFGHIJKLR
C-12 NYT-4822-000 1 KEYTOP (#537) *					KEYTOP			ABCDEFGHIJKLQR
C-12 NY7-4828-000								GHIJKLO.Q
C-12 NY7-4834-000 1 KEYTOP (#549) * GHJ.KL. Q. C-12 NY7-4834-000 1 KEYTOP (#585) * GHJ.KL. Q. C-12 NY7-4857-000 1 KEYTOP (#586) * GHJ.KL. Q. C-12 NY7-4858-000 1 KEYTOP (#586) * GHJ.KL. Q. C-12 NY7-4858-000 1 KEYTOP (#584) * GHJ. L. Q. C-12 NY7-4875-000 1 KEYTOP (#584) * ACCEPTGHJ.KI.MIDORR. C-12 NY7-4875-000 1 KEYTOP Y * ACCEPTGHJ.KI.MIDORR. C-12 NY7-4875-000 1 KEYTOP Y * ACCEPTGHJ.KI.MIDORR. C-12 NY7-4875-000 1 KEYTOP Y * ACCEPTGHJ.KI.MIDORR. C-12 NY7-4875-000 1 KEYTOP O * GETTO								
C-12 NYT-4838-000								GHIJKLQ
C-12 NY7-4887-000	C-12			1	KEYTOP			GHIJKLO.Q
C-12 MY7-4868-000								
C-12 NY7-4875-000								CUT O
C-12 NY7-4876-000						<u> </u>		ARCDEECHT.IKI MNOPOR
C-12	C-12							
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C-12							1 '	ABCGHIJNQR
C-12							•	ABCGHIJNQR
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C-12							1	ABCGHIJNQR
C-12						=	1	
C-12								ABCGHIJNQR
C-12						(#0/1) SHIFT		CHT.I N O
C-12	C-12					PERM SPACE/TAB		ABCGHIJNQR
C-12	C-12	NY7-8018-000			KEYT0P	ERASE		
C-12								
C-12								
C-12	C-12			2	KEYTOP	use front		
C-12		NY7-8029-000		1	KEYT0P	(#689)		ABCGHIJNQR
C-12 NY7-8037-000 1 KEYTOP LOCK * ABCGHIJNQR								
Lange Transport of the Line Language Control C	C-12	NY7-8039-000		1	KEYTOP	(#696)	*	ABCDEFGHIJKLMNOPQR

C-30

"RaskinDoc062_C-30.PICT" 416 KB 2000-02-25 dpi: 500h x 500v pix: 2328h x 3696v

C-13. KEYTOPS (SWEDEN/FINLAND)



C-31

"RaskinDoc062_C-31.PICT" 260 KB 2000-02-25 dpi: 500h x 500v pix: 2242h x 3696v

Source: David T. Craig

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C-13. KEYTOPS (SWEDEN/FINLAND)
[COUNTRY CODE AS SHOWN BELOW]
COUNTRY CODE:
A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA
B: ASIA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN
C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN
D: QUEBEC H: DENMARK L: SWITZERLAND P- TTALY

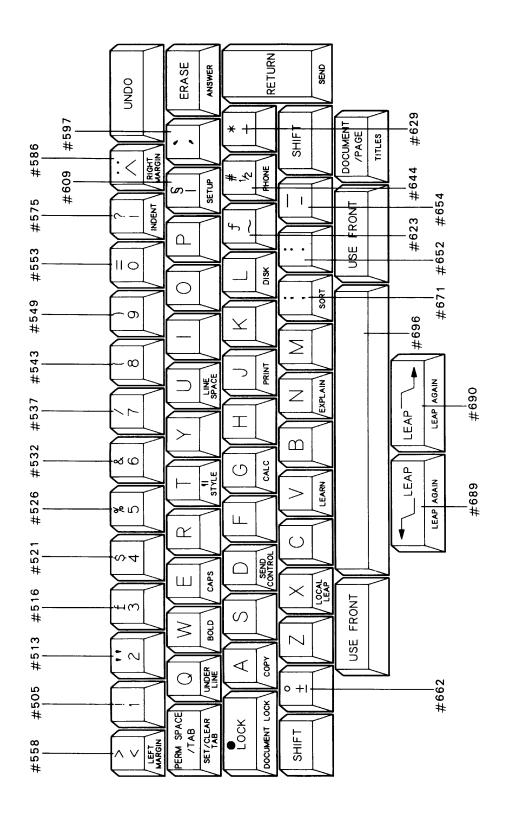
QUEBEC QUEBEC	_	DENMARK	SWITZERLAND	ITALY

570,05						COUNTRY CODE
FIGURE	0407 11111050	CANIL	07.74	OCCOPTETION	REMARKS	COUNTIN CODE
&	PART NUMBER	rank	Q'TY	DESCRIPTION	NEMANNO	ABCDEFGHIJKLMNOPQR
KEY NO.	1	ŀ	l		l l	ADOUCTUIT JYLMINOL MU
			 			ACCO THE D
C-13	NY7-4790-000		1	KEYTOP (#505)	*	ABCDIJKR
C-13	NY7-4798-000	l	1	KEYTOP (#513)	*	DEFCHIJKL.NO.Q
C-13	NY7-4801-000	!	1	KEYTOP (#516)	*	GHIJ
C-13	NY7-4806-000	1	Ιi	KEYTOP (#521)	*	ABCDEFGHIJKLR
		l	Ιi	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-13	NY7-4811-000	l	1 1	KEYTOP (#532)	*	GHIJKLO.Q
C-13	NY7-4817-000	l			*	GHIJKL
C-13	NY7-4822-000	1	1	KEYTOP (#537)	*	GHIJKLQ
C-13	NY7-4828-000	l	1 1	KEYTOP (#543)	1 .	OUT IVI
C-13	NY7-4834-000		1	KEYTOP (#549)	*	gHIJKLQ
C-13	NY7-4838-000	i .	1	KEYTOP (#553)	*	GHIJKLO.Q
C-13	NY7-4844-000	Į.	1 1	KEYTOP (#559)	*	
l C-13	NY7-4857-000		1 1	KEYTOP (#573)	 *	GHI
C-13	NY7-4868-000	1	Ιi	KEYTOP (#584)	*	QQ
C-13	NY7-4875-000	1	Ιi	KEYTOP R	*	ABCDEFGHIJKLMNOPQR
		i	Ιi	KEYTOP Y	*	ABCDEFGHIJMNOPQR
C-13	NY7-4876-000	1			*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4877-000	1	1 1	KEYTOP I	*	EFGHIJ.LOPQ
C-13	NY7-4878-000	1	1 1	KEYTOP O		ABCDEFGHIJKLMNOPQR
C-13	NY7-4879-000	l	1	KEYTOP P	*	
C-13	NY7-4885-000	l .	1	KEYTOP (#595)	*	I
C-13	NY7-4894-000	1	l 1	KEYTOP Q	*	ABCGHIJNQR
Č-13	NY7-4896-000	Ĭ	1 1	KEYTOP W	*	ABCGHIJNQR
C-13	NY7-4898-000	1	Ιi	KEYTOP E	*	ABCDEFGHIJKLMNOPQR
	NY7-4899-000	ı	Ιi	KEYTOP T	*	ABCGHIJNQR
C-13			Ιi	KEYTOP Ú	*	ABCD. GHIJNQR
C-13	NY7-4901-000				*	GHI
C-13	NY7-4910-000	1	1 1		*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4920-000	1	1 1	KEYTOP S		ARCDEFCHIJKLMNOPQR
C-13	NY7-4921-000	1	1 1	KEYTOP F	*	
C-13	NY7-4922-000	1	1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4923-000	ı	1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4930-000		1 1	KEYTOP (#622)	*	I.K
C-13	NY7-4935-000	L	1 1	KEYTOP (#627)	*	GHI
C-13	NY7-4944-000	i	1 1	KEYTOP A	*	ABCGHIJNQR
C-13	NY7-4946-000	1	1 i	KEYTOP D	*	ABCGHIJNQR
C-13	NY7-4948-000		li	KEYTOP G	*	ABCGHIJNQR
C-13	NY7-4950-000	1	Ιi	KEYTOP J	*	ABCGHIJNQR
	NY7-4952-000		1 1	KEYTOP L	*	ABCGHIJNQR
C-13		į.			*	I
C-13	NY7-4961-000	İ	1 1	KEYTOP (#642)		ABCDEFGHIJNO.QR
C-13	NY7-4969-000	1	1	KEYTOP Z	*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4970-000	1	1 1	KEYTOP C	*	
C-13	NY7-4971-000	1	1	KEYTOP B	*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4972-000	1	1 1	KEYTOP M	*	ABCDEFGHIJKL.NOPQR
C-13	NY7-4977-000	1	1 1	KEYTOP (#652)	*	GHIJKLO
C-13	NY7-4979-000		1 1	KEYTOP (#654)	*	GHIJK
C-13	NY7-4985-000		Ιi	KEYTOP (#660)	*	I
C-13	NY7-4993-000		l i	KEYTOP X	*	ABCGHIJNQR
C-13	NY7-4995-000		Ιi	KEYTOP V	*	ABCGHIJNQR
	NY7-4997-000		1 ;	KEYTOP N	*	ABCGHIJNQR
C-13				11-11-11	*	GHIJ
C-13	NY7-8003-000		!		*	GHIJNQ
C-13	NY7-8014-000		1 !	KEYTOP SHIFT	4 '	ABCGHIJNQR
C-13	NY7-8016-000		1 1	KEYTOP PERM SPACE/TAB	*	
C-13	NY7-8018-000		1 1	KEYTOP ERASE	*	ABCGHIJNUR
C-13	NY7-8020-000		1	KEYTOP SHIFT	*	ABCGHIJNQR
C-13	NY7-8021-000		1	KEYTOP DOCUMENT/PAGE	*	ABCGHIJNQR
C-13	NY7-8025-000		1	KEYTOP UNDO	*	GHIJQ
C-13	NY7-8027-000		2	KEYTOP USE FRONT	*	ABCGHIJNQR
C-13	NY7-8029-000		1 1	KEYTOP (#689)	*	ABCGHIJNQR
C-13	NY7-8030-000		li	KEYTOP (#690)	*	ABCGHIJNQR
	NY7-8035-000		li	KEYTOP RETURN	*	GHIJNQ
I C_12					1	
C-13					yk .	
C-13 C-13 C-13	NY7-8037-000 NY7-8037-000			KEYTOP LOCK KEYTOP (#696)	*	ABCGHIJNQRABCDEFGHIJKLMNOPQR

C-32

"RaskinDoc062_C-32.PICT" 424 KB 2000-02-25 dpi: 500h x 500v pix: 2385h x 3703v

C-14. KEYTOPS (NETHERLANDS)



C-33

"RaskinDoc062_C-33.PICT" 256 KB 2000-02-25 dpi: 500h x 500v pix: 2220h x 3717v

Source: David T. Craig

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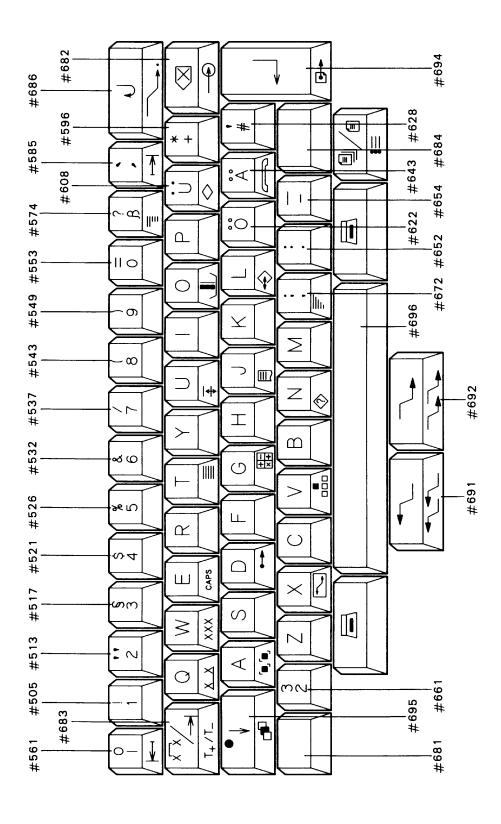
C-14. KEYTOPS (NETHERLANDS)
[COUNTRY CODE AS SHOWN BELOW]
COUNTRY CODE:
A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAI
B: ASIA F: LATIN(230V) J: NETHERLANDS
C: OCEANIA G: NORWAY K: W.GERMANY
D: QUEBEC H: DENMARK L: SWITZERLAND E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE F: LATIN(230V) J: NETHERLANDS N: U.K. G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY Q: S.AFRICA R: JAPAN

C-14 NY7-4790-000 1 KEYTOP (#505) * ABCDIJK	MNOPQR
C-14 NY7-4790-000 1 KEYTOP (#505) * ABCDIJK.	0
C-14 NY7-4798-000 1 KEYTOP (#513) 1*DFFGHTJKL	N
10 17 1111 TION VOV 1 1 1 INC. 101 (1010)	.NO.Q
lc-14 NY7-4801-000 1 KEYTOP (#516) * GHIJ	
C-14 NY7-4806-000 1 KEYTOP (#521) * ABCDEFCHIJKL	R
	QR
	0.Q
C-14 NY7-4822-000 1 KEYTOP (#537) *GHI JKL	Q
	Q
C-14 NY7-4838-000 1 KEYTOP (#553) *GHIJKL	0.0.
C-14 NY7-4843-000 1 KEYTOP (#558) *GH.J	
C-14	
C-14 NY7-4870-000 1 KEYTOP (#586) *	
17 17 17 17 17 17 17 1 1 1 1 1 1 1 1 1	MNOPQR
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MNOPQR
C-14	_MNOPQR
C-14	MNOPQR
C-14	0
C-14 NY7-4894-000 1 KEYTOP Q * ABCGHIJ	.NQR
C-14 NY7-4896-000 1 KEYTOP W * ABCGHIJ	NQR
C-14 NY7-4898-000 1 KEYTOP E * ABCDEFCHIJKL	_MNOPQR
C-14	.NQR
	NQR
	_MNOPQR
C-14	_MNOPQR
C-14	MNOPQR
C-14	
	.NQR
	NQR
	NQR
	NQR NQR
C-14 NY7-4969-000 1 KEYTOP Z * ABCDEFGHIJ	.NO.QR
C-14	_MNOPQR
C-14	_MNOPQR
	_NOPQR
	0
	.N. QR
	.NQR
C-14 NY7-4997-000 1 KEYTOP N * ABCGHIJ	.NQR
C-14 NY7-8003-000 1 KEYTOP (#671) * GHIJ	
C-14 NY7-8014-000 1 KEYTOP SHIFT *GHIJ	NQ
C-14 NY7-8016-000 1 KEYTOP PERM SPACE/TAB * ABCGHIJ	NQR
	NQR
	NQR NQR
	Q
lance the lance and the lance are the lance to the lance	.N. QR
	.N. QR
C-14 NY7-8030-000 1 KEYTOP (#690) * ABCGHIJ	NQR
1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NQ
	NQR
C-14 NY7-8039-000 1 KEYTOP (#696) * ABCOEFGHIJK	LMNOPQR

C-34

"RaskinDoc062_C-34.PICT" 420 KB 2000-02-25 dpi: 500h x 500v pix: 2363h x 3696v

C-15. KEYTOPS (W.GERMANY)



C-35

"RaskinDoc062_C-35.PICT" 258 KB 2000-02-25 dpi: 500h x 500v pix: 2242h x 3710v

Source: David T. Craig

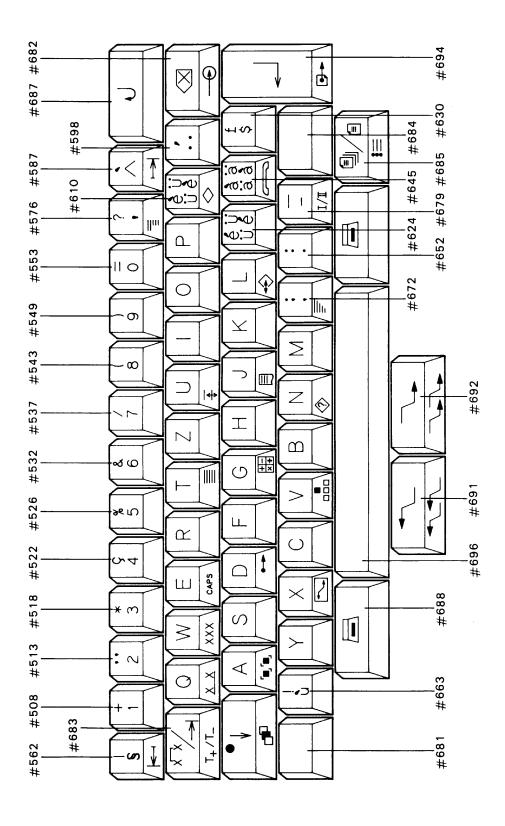
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C-15. KEYTOPS (W. GERMANY)
[COUNTRY CODE AS SHOWN BELOW]
COUNTRY CODE:
A: USA/CANADA E: LATIN(115V) I: SWEDEN/F;
B: ASIA F: LATIN(230V) J: NETHERLAN
C: OCEANIA G: NORWAY K: W.GERMAN)
D: QUEBEC H: DENWARK L: SWITZERLA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE F: LATIN(230V) J: NETHERLANDS N: U.K. G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY Q: S.AFRICA R: JAPAN

EXOLDE.	I	T	r			000000000000000000000000000000000000000
FIGURE &	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE
KEY NO.	PANI NUMOCA	DHINA	W 11	DESCRIPTION	NEMANNO	ABCDEFGHIJKLMNOPQR
C-15	NY7-4790-000		1	KEYTOP (#505)	*	ABCDIJKR
C-15	NY7-4798-000		li	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-15	NY7-4802-000		li	KEYTOP (#517)	*	KQ
C-15	NY7-4806-000		1	KEYTOP (#521)	*	ABCDEFGHIJKLR
C-15	NY7-4811-000		1	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-15	NY7-4817-000		1	KEYTOP (#532)	*	GHIJKLO.Q
C-15	NY7-4822-000		1	KEYTOP (#537)	*	GHIJKL
C-15 C-15	NY7-4828-000 NY7-4834-000			KEYTOP (#543) KEYTOP (#549)	*	GHIJKLQ GHIJKLQ
C-15	NY7-4838-000		li	KEYTOP (#553)	*	GHIJKLO.Q
C-15	NY7-4845-000		li,	KEYTOP (#561)	*	
C-15	NY7-4858-000		1	KEYTOP (#574)	*	K
C-15	NY7-4869-000		1	KEYTOP (#585)	*	K
C-15	NY7-4875-000		1	KEYTOP R	*	ABCDEFGHIJKLMNOPQR
C-15 C-15	NY7-4877-000 NY7-4879-000		1	KEYTOP I KEYTOP P	*	ABCDEFCHIJKLMNOPQR
C-15	NY7-4880-000		¦	KEYTOP Z	*	ABCDEFGHIJKLMNOPQRKL
C-15	NY7-4886-000		li	KEYTOP (#596)	*	
C-15	NY7-4895-000	l	i	KEYTOP Q	*	DEFKLOP
C-15	NY7-4897-000		1	KEYTOP W	*	DEFKLO
C-15	NY7-4898-000		1	KEYTOP E	*	ABCDEFGHIJKLMNOPQR
C-15 C-15	NY7-4900-000		1	KEYTOP T	*	DEFKLM.OP
C-15	NY7-4902-000 NY7-4904-000		1 1	KEYTOP U KEYTOP O	*	DEFKLM.OP
C-15	NY7-4911-000			KEYTOP (#608)	*	
C-15	NY7-4920-000	ĺ	l i l	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-15	NY7-4921-000		1	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-15	NY7-4922-000		1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-15 C-15	NY7-4923-000		1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-15	NY7-4930-000 NY7-4936-000		1 1	KEYTOP (#622) KEYTOP (#628)	*	I.K
l C-15	NY7-4945-000		i	KEYTOP A	*	DEFKLOP
C-15	NY7-4947-000		1	KEYTOP D	*	DEFKLM.OP
C-15	NY7-4949-000		1	KEYTOP G	*	!DEFKLM.OP
C-15 C-15	NY7-4951-000		1	KEYTOP J	*	DEFKLM.OP
C-15	NY7-4953-000 NY7-4962-000		1 1	KEYTOP L KEYTOP (#643)	* *	DEFKLM.OP
C-15	NY7-4970-000			KEYTOP C	*	ABCOEFGHIJKLMNOPQR
C-15	NY7-4971-000		il	KEYTOP B	*	ABCDEFGHIJKLMNOPQR
C-15	NY7-4972-000		1	KEYTOP M	*	ABCDEFGHIJKL.NOPQR
C-15	NY7-4973-000		1	KEYTOP Y	*	KL
C-15 C-15	NY7-4977-000 NY7-4979-000		1	KEYTOP (#652)	*	GHIJKLO
C-15	NY7-4979-000 NY7-4986-000		1 1	KEYTOP (#654) KEYTOP (#661)	*	GHIJK
C-15	NY7-4994-000		i	KEYTOP X	*	DEFKLM.OP
C-15	NY7-4996-000		i	KEYTOP V	*	DEFKLM.OP
C-15	NY7-4998-000		1	KEYTOP N	*	DEFKLM.OP
C-15	NY7-8004-000		1	KEYTOP (#672)	*	KL O
C-15 C-15	NY7-8013-000 NY7-8015-000		1	KEYTOP (#681)	*	EFKLM.OP
C-15	NY7-8015-000 NY7-8017-000	- 1	1 1	KEYTOP (#682) KEYTOP (#683)	*	DEFKLM.OP
C-15	NY7-8019-000		il	KEYTOP (#684)	*	DEFKLM.OP
C-15	NY7-8022-000		i	KEYTOP (#685)	*	DEFKLM.OP
C-15	NY7-8024-000		1 1	KEYTOP (#686)	*	DK.M
C-15	NY7-8028-000		2	KEYTOP (#688)	*	DEFKLM.OP
C-15 C-15	NY7-8031-000		1	KEYTOP (#691)	*	DEFKLM.OP
C-15 C-15	NY7-8032-000 NY7-8036-000		1	KEYTOP (#692) KEYTOP (#694)	* *	DEFKLM.OP
C-15	NY7-8038-000		1	KEYTOP (#694)	*	EFKLM.OP
C-15	NY7-8039-000		i	KEYTOP (#696)	*	ABCDEFGHIJKLMNOPQR
				,,		

C-36

C-16. KEYTOPS (SWITZERLAND)



C-37

"RaskinDoc062_C-37.PICT" 257 KB 2000-02-25 dpi: 500h x 500v pix: 2249h x 3703v

Source: David T. Craig Page 0148 of 0187

C-16. KEYTOPS (SWITZERLAND)
[COUNTRY CODE AS SHOWN BELOW]
COUNTRY CODE:
A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAN
B: ASIA F: LATIN(230V) J: NETHERLANDS
C: OCEANIA G: NORWAY K: W.GERMANY
D: QUEBEC H: DENMARK L: SWITZERLAND I: SWEDEN/FINLAND M: FRANCE
J: NETHERLANDS N: U.K.
K: W.GERMANY O: SPAIN
L: SWITZERLAND P: ITALY Q: S.AFRICA R: JAPAN

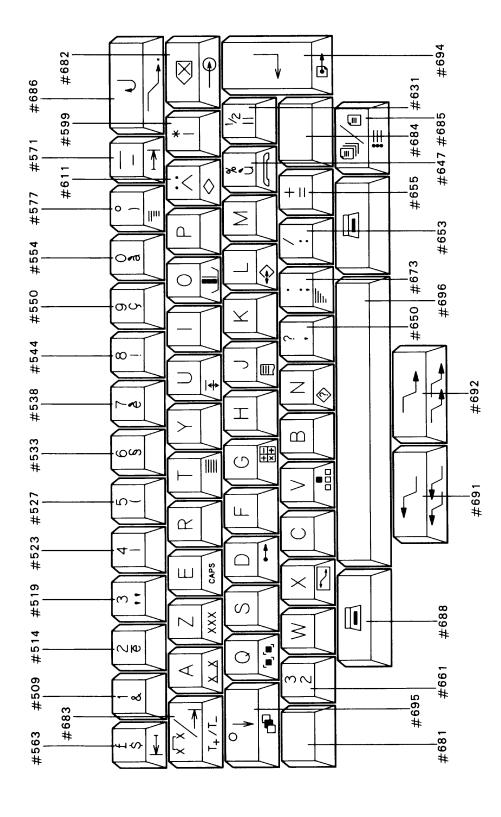
FIGURE	DADT NUMBER		OLTY.	DEMOTOTAN	25112112	COUNTRY CODE
KEY NO.	Part Number	RANK	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-16	NY7-4793-000		1	KEYTOP (#508)	*	QQ.
C-16	NY7-4798-000		1	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-16 C-16	NY7-4803-000 NY7-4807-000		1	KEYTOP (#518) KEYTOP (#522)	*	••••••
C-16	NY7-4811-000		lil	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-16	NY7-4817-000		ĺi	KEYTOP (#532)	*	GHIJKLO.Q
C-16	NY7-4822-000		1 1	KEYTOP (#537)	*	GHIJKL
C-16 C-16	NY7-4828-000 NY7-4834-000		1	KEYTOP (#543)	*	QHIJKLQ
C-16	NY7-4838-000		1 1	KEYTOP (#549) KEYTOP (#553)	*	GHIJKLQ GHIJKLO.Q
C-16	NY7-4846-000		i	KEYTOP (#562)	*	L
C-16	NY7-4860-000		1	KEYTOP (#576)	*	LL
C-16	NY7-4871-000		1	KEYTOP (#587)	*	
C-16 C-16	NY7-4875-000 NY7-4877-000		1 1	KEYTOP R KEYTOP I	*	ABCDEFGHIJKLMNOPQRABCDEFGHIJKLMNOPQR
C-16	NY7-4878-000		1	KEYTOP O	*	ABCDEFGHIJKLMNUPGK
C-16	NY7-4879-000		1	KEYTOP P	*	ABCDEFGHIJKLMNOPQR
C-16	NY7-4880-000		1	KEYTOP Z	*	KL
C-16 C-16	NY7-4888-000 NY7-4895-000		1 1	KEYTOP (#598) KEYTOP Q	*	DEFKLOP
C-16	NY7-4897-000		i 1	KEYTOP W	*	DEFKLO
C-16	NY7-4898-000		i	KEYTOP E	*	ABCDEFGHIJKLMNOPQR
C-16	NY7-4900-000		1	KEYTOP T	*	DEFKLM.OP
C-16 C-16	NY7-4902-000		!	KEYTOP U	*	DEFKLM.OP
C-16	NY7-4913-000 NY7-4920-000		1	KEYTOP (#610) KEYTOP S	*	ABCDEFGHIJKLMNOPQR
Č-16	NY7-4921-000		i l	KEYTOP F	*	ABCOEFGHIJKLMNOPQR
C-16	NY7-4922-000		1	KEYTOP H	*	ABCOEFGHIJKLMNOPQR
C-16 C-16	NY7-4923-000 NY7-4932-000		1	KEYTOP K	*	ABCOEFGHIJKLMNOPQR
C-16	NY7-4932-000 NY7-4938-000		1	KEYTOP (#624) KEYTOP (#630)	*	•••••
C-16	NY7-4945-000		i l	KEYTOP A	*	DEFKLOP
C-16	NY7-4947-000		1	KEYTOP D	*	DEFKLM.OP
C-16 C-16	NY7-4949-000 NY7-4951-000		1	KEYTOP G KEYTOP J	*	DEFKLM.OP
C-16	NY7-4953-000		i l	KEYTOP J KEYTOP L	*	DEFKLM.OP
C-16	NY7-4964-000		- i	KEYTOP (#645)	*	L
C-16	NY7-4970-000		1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-16 C-16	NY7-4971-000 NY7-4972-000		- 1	KEYTOP B	*	ABCDEFGHIJKLMNOPQR
C-16	NY7-4972-000 NY7-4973-000		1	KEYTOP M KEYTOP Y	*	ABCDEFGHIJKL.NOPQRKL
C-16	NY7-4977-000		1	KEYTOP (#652)	*	GHIJKLO
C-16	NY7-4988-000		_ 1	KEYTOP (#663)	*	
C-16 C-16	NY7-4994-000 NY7-4996-000		1	KEYTOP X KEYTOP V	*	DEFKLM.OP
C-16	NY7-4998-000 NY7-4998-000		- i l	KEYTOP N	*	DEFKLM.OP
C-16	NY7-8004-000		- i	KEYTOP (#672)	*	KLO
C-16	NY7-8011-000	- 1	1	KEYTOP (#679)	*	
C-16 C-16	NY7-8013-000 NY7-8015-000		1	KEYTOP (#681) KEYTOP (#682)	*	EFKLM.OP
C-16	NY7-8017-000		-	KEYTOP (#683)	*	DEFKLM.OP DEFKLM.OP
C-16	NY7-8019-000		- i	KEYTOP (#684)	*	DEFKLM.OP
C-16	NY7-8022-000		- 1	KEYTOP (#685)	*	DEFKLM.OP
C-16 C-16	NY7-8026-000 NY7-8028-000		1	KEYTOP (#687) KEYTOP (#688)	*	EFL.OPDEFKLM.OP
Č-16	NY7-8031-000		1	KEYTOP (#691)	*	DEFKLM.OP
C-16	NY7-8032-000		1	KEYTOP (#692)	*	DEFKLM.OP
C-16 C-16	NY7-8036-000		1	KEYTOP (#694)	*	EFKLM.OP
C-16	NY7-8038-000 NY7-8039-000		-	KEYTOP (#695) KEYTOP (#696)	*	DEFKLM.OPABCDEFGHIJKLMNOPQR.
	5555 500			11.11.01 (#030)	Ť	MUDDEFULL TALINIA CHARLES

C-38

"RaskinDoc062_C-38.PICT" 413 KB 2000-02-25 dpi: 500h x 500v pix: 2342h x 3717v

Source: David T. Craig

C-17. KEYTOPS (FRANCE)



C-39

"RaskinDoc062_C-39.PICT" 257 KB 2000-02-25 dpi: 500h x 500v pix: 2227h x 3710v

Source: David T. Craig

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C-17. KEYTOPS (FRANCE) [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE: A: USA/CANADA E: LATIN(115V) I: SW B: ASIA F: LATIN(230V) J: NE C: OCEANIA G: NORWAY K: W.I D: QUEBEC H: DENMARK L: SW

I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA
J: NETHERLANDS N: U.K. R: JAPAN
K: W.GERMANY O: SPAIN
L: SWITZERLAND P: ITALY

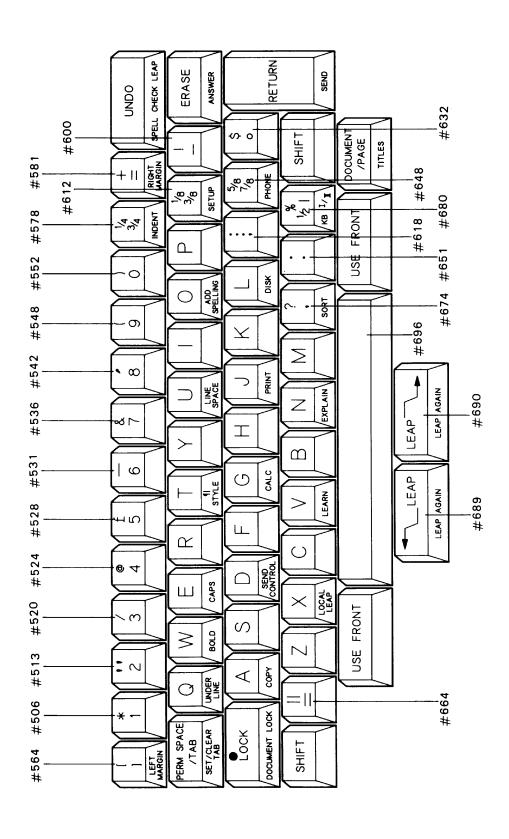
FIGURE			01711	05000101101	OEMA DICC	COUNTRY CODE
KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-17	NY7-4794-000		1	KEYTOP (#509)	*	
C-17	NY7-4799-000		1	KEYTOP (#514)	*	
C-17	NY7-4804-000		1	KEYTOP (#519)	*	
C-17	NY7-4808-000		1 1	KEYTOP (#523)	*	<u>M</u> <u>P</u>
C-17	NY7-4812-000		1	KEYTOP (#527)	*	
C-17	NY7-4818-000	l	1	KEYTOP (#533)	*	
C-17 C-17	NY7-4823-000 NY7-4829-000	l	1 1	KEYTOP (#538) KEYTOP (#544)	*	
C-17	NY7-4835-000	l	li	KEYTOP (#550)	*	M. P
C-17	NY7-4839-000	l	Ιi	KEYTOP (#554)	*	
C-17	NY7-4847-000	l	1	KEYTOP (#563)	*	
C-17	NY7-4855-000	l	1	KEYTOP (#571)	*	
C-17	NY7-4861-000	l	1 1	KEYTOP (#577)	*	
C-17	NY7-4875-000	l	1	KEYTOP R	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4876-000	l		KEYTOP Y KEYTOP I	*	ABCDEFGHIJMNOPQR
C-17 C-17	NY7-4877-000 NY7-4879-000	l	li	KEYTOP P	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4889-000	İ	li	KEYTOP (#599)	*	M. M.
Č-17	NY7-4898-000	l	Ιi	KEYTOP E	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4900-000	l	1	KEYTOP T	*	DEFKLM.OP
C-17	NY7-4902-000	l	1	KEYTOP U	*	DEFKLM.OP
C-17	NY7-4904-000		1	KEYTOP O	*	DK.M
C-17	NY7-4905-000	İ	1	KEYTOP Z	*	M
C-17 C-17	NY7-4906-000 NY7-4914-000	l	1 1	KEYTOP A KEYTOP (#611)	*	M
C-17	NY7-4920-000	İ	Ιi	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4921-000	l	Ιi	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4922-000	l	ĺi	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4923-000	l	1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4924-000	ļ	1	KEYTOP M	*	MP
C-17 C-17	NY7-4939-000	l		KEYTOP (#631) KEYTOP D	*	
C-17	NY7-4947-000 NY7-4949-000		li	KEYTOP D KEYTOP G	*	DEFKLM.OP
C-17	NY7-4951-000		li	KEYTOP J	*	DEFKLM.OP
C-17	NY7-4953-000		l i	KEYTOP L	*	DEFKLM.OP
C-17	NY7-4954-000		1	KEYTOP Q	*	
C-17	NY7-4966-000		1 1	KEYTOP (#647)	*	**************************************
C-17	NY7-4970-000		1	KEYTOP C	*	ABCOEFGHIJKLMNOPQR
C-17 C-17	NY7-4971-000	1		KEYTOP B KEYTOP W	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4974-000 NY7-4975-000		li	KEYTOP (#650)	*	M. P.
C-17	NY7-4978-000		li	KEYTOP (#653)	*	M. P
C-17	NY7-4980-000		l i	KEYTOP (#655)	*	
C-17	NY7-4986-000		1	KEYTOP (#661)	*	
C-17	NY7-4994-000		1	KEYTOP X	*	DEFKLM.OP
C-17	NY7-4996-000		1 1	KEYTOP V	*	DEFKLM.OP
C-17 C-17	NY7-4998-000 NY7-8005-000		1 1	KEYTOP N KEYTOP (#673)	* *	DEFKLM.OP
C-17	NY7-8013-000			KEYTOP (#681)	*	EFKLM.OP
C-17	NY7-8015-000		Ιί	KEYTOP (#682)	*	DEFKLM.OP
C-17	NY7-8017-000		l i	KEYTOP (#683)	*	DEFKLM.OP
C-17	NY7-8019-000		1	KEYTOP (#684)	*	DEFKLM.OP
C-17	NY7-8022-000	ł	1	KEYTOP (#685)	*	DEFKLM.OP
C-17	NY7-8024-000	1	1	KEYTOP (#686)	*	DK.M
C-17 C-17	NY7-8028-000	1	2	KEYTOP (#688)	*	DEFKLM.OP
C-17 C-17	NY7-8031-000 NY7-8032-000	1		KEYTOP (#691) KEYTOP (#692)	*	DEF KLM OP
C-17	NY7-8036-000		Ιi	KEYTOP (#694)	*	EFKLM.OP
Č-17	NY7-8038-000		Ιi	KEYTOP (#695)	*	DEFKLM.OP
C-17	NY7-8039-000		i	KEYTOP (#696)	*	ABCDEFGHIJKLMNOPQR
	L	L	L	<u> </u>	L	

C-40

"RaskinDoc062_C-40.PICT" 401 KB 2000-02-25 dpi: 500h x 500v pix: 2363h x 3703v

Source: David T. Craig

C-18. KEYTOPS (U.K.)



C-41

"RaskinDoc062_C-41.PICT" 257 KB 2000-02-25 dpi: 500h x 500v pix: 2227h x 3688v

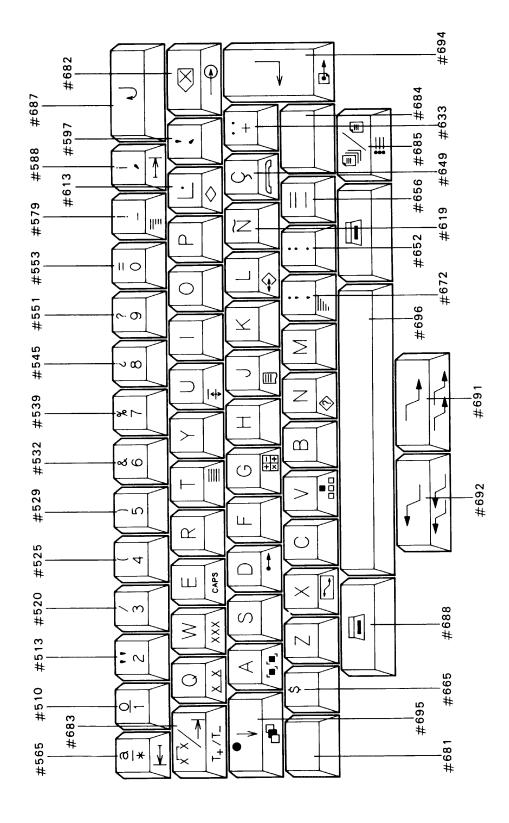
Source: David T. Craig

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C-18	FIGURE &	PART NUMBER	RANK	Q'TY		DESCRIPTION	REMARKS	COUNTRY CODE
C-18	KEY NO.			_				ABCDEFGHIJKLMNOPQR
C-18 MY7-489-000 1 KEYTOP (#524) * M.O MO MO MO MEYTOP (#524) * M.O MEYTOP (#524) * M.O MEYTOP (#524) * M.O MEYTOP (#525) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#531) * M.O MEYTOP (#542) * M.O MEYTOP (M.O MEYTOP (M.O MEYTOP Y M.O MEYTOP Y M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.O MEYTOP M.M.O MEXTOP M.M.O MEYTOP M.M.O MEXTOP M.M.O MEXTOP M.M.O MEXTOP M.M.O MEXTOP M.M.O MEXTOP M.M.O MEXT								DEECOT IN NO O
C-18								NO
C-18				1			*	NQ
C-18 NYT-4821-000								<u></u>
C-18 NYT-4837-000								
C-18								
C-18					KEYT0P	(#548)		ABCDEFNR
C-18								
C-18								N
C-18								ABCN
C-18				1	KEYT0P	Ř	*	ABCDEFGHIJKLMNOPQR
C-18								ABCDEFGHIJMNOPQR
C-18							-	
C-18	C-18							l
C-18								ABCGHIJNQR
C-18						Μ̈		
C-18						두		
C-18								
C-18					KEYT0P	Ō	*	ABC
C-18						(#612)		
C-18 NY7-4922-000						2	-	
C-18								
C-18 NY7-4940-000		NY7-4923-000		1				ABCDEFGHIJKLMNOPQR
C-18 NY7-4944-000 1 KEYTOP A * ABCGHIJNQR C-18 NY7-4948-000 1 KEYTOP D * ABCGHIJNQR C-18 NY7-4948-000 1 KEYTOP G * ABCGHIJNQR C-18 NY7-4950-000 1 KEYTOP L * ABCGHIJNQR C-18 NY7-4967-000 1 KEYTOP L * ABCGHIJNQR C-18 NY7-4967-000 1 KEYTOP C * ABCDEFGHIJNO.QR C-18 NY7-4969-000 1 KEYTOP C * ABCDEFGHIJKLMNOPQR C-18 NY7-4970-000 1 KEYTOP B * ABCDEFGHIJKLMNOPQR C-18 NY7-4972-000 1 KEYTOP M * ABCDEFGHIJKLMNOPQR C-18 NY7-4976-000 1 KEYTOP M * ABCDEFGHIJKLMNOPQR C-18 NY7-4989-000 1 KEYTOP M * ABCDEFGHIJKLMNOPQR C-18 NY7-4989-000 1 KEYTOP M * ABCDEFGHIJKLMNOPQR C-18 NY7-4989-000 1 KEYTOP M * ABCDEFGHIJKLMNOPQR								
C-18 NY7-4946-000						•		
C-18							•	
C-18						G		ABCGHIJNQR
C-18								ABCGHIJNQR
C-18								ABCGHIJNQR
C-18								
C-18						C		ABCDEFGHIJKLMNOPQR
C-18								
C-18								
C-18	C-18	NY7-4989-000						N
C-18					KEYTOP	X		ABCGHIJNQR
C-18						-		
C-18								
C-18 NY7-8014-000 1 KEYTOP SHIFT *	C-18							
C-18 NY7-8018-000 1 KEYTOP ERASE * ABCGHIJNQR C-18 NY7-8020-000 1 KEYTOP SHIFT * ABCGHIJNQR C-18 NY7-8021-000 1 KEYTOP DOCUMENT/PAGE * ABCGHIJNQR C-18 NY7-8023-000 1 KEYTOP UNDO * ABCNR C-18 NY7-8027-000 2 KEYTOP USE FRONT * ABCGHIJNQR C-18 NY7-8029-000 1 KEYTOP (#689) * ABCGHIJNQR C-18 NY7-8030-000 1 KEYTOP (#690) * ABCGHIJNQR C-18 NY7-8037-000 1 KEYTOP RETURN * GHIJNQR C-18 NY7-8037-000 1 KEYTOP LOCK * ABCGHIJNQR		NY7-8014-000			KEYTOP	SHIFT		GHIJNQ
C-18 NY7-8020-000 1 KEYTOP SHIFT * ABCGHIJNQR C-18 NY7-8021-000 1 KEYTOP DOCUMENT/PAGE * ABCGHIJNQR C-18 NY7-8023-000 1 KEYTOP UNDO * ABCNR C-18 NY7-8027-000 2 KEYTOP USE FRONT * ABCGHIJN.QR C-18 NY7-8029-000 1 KEYTOP (#689) * ABCGHIJN.QR C-18 NY7-8030-000 1 KEYTOP (#690) * ABCGHIJN.QR C-18 NY7-8037-000 1 KEYTOP RETURN * GHIJN.Q C-18 NY7-8037-000 1 KEYTOP LOCK * ABCGHIJN.QR					40000	E0 4 0 C		
C-18 NY7-8021-000 1 KEYTOP DOCUMENT/PAGE			- 1					
C-18 NY7-8023-000 1 KEYTOP UNDO								ABCGHIJNQR
C-18 NY7-8029-000 1 KEYTOP (#689) * ABCGHIJNQRC-18 NY7-8030-000 1 KEYTOP (#690) * ABCGHIJNQR	C-18	NY7-8023-000		1	KEYTOP	UNDO	*	ABC
C-18			ļ					ABCGHIJNQR
C-18 NY7-8035-000 1 KEYTOP RETURN *						1 1111		
C-18 NY7-8037-000 1 KEYTOP LOCK * ABCGHIJNQR.			į					
		NY7-8037-000		1	KEYT OP	LOCK	*	ABCGHIJNQR
C-18 NY7-8039-000 1 KEYTOP (#696) * ABCDEFCHIJKLMNOPQR	U-18	NY7-8039-000	İ	1	KEYT0P	(#696)	*	ABCDEFGHIJKLMNOPQR

C-42

C-19. KEYTOPS (SPAIN)



C-43

"RaskinDoc062_C-43.PICT" 252 KB 2000-02-25 dpi: 500h x 500v pix: 2256h x 3703v

Source: David T. Craig

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C-19. KEYTOPS (SPAIN) [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE: A: USA/CANADA E: LATIN(115V) I: 1 B: ASIA F: LATIN(230V) J: I C: OCEANIA G: NORWAY K: V D: QUEBEC H: DENMARK L: 1

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE F: LATIN(230V) J: NETHERLANDS N: U.K. G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY Q: S.AFRICA R: JAPAN

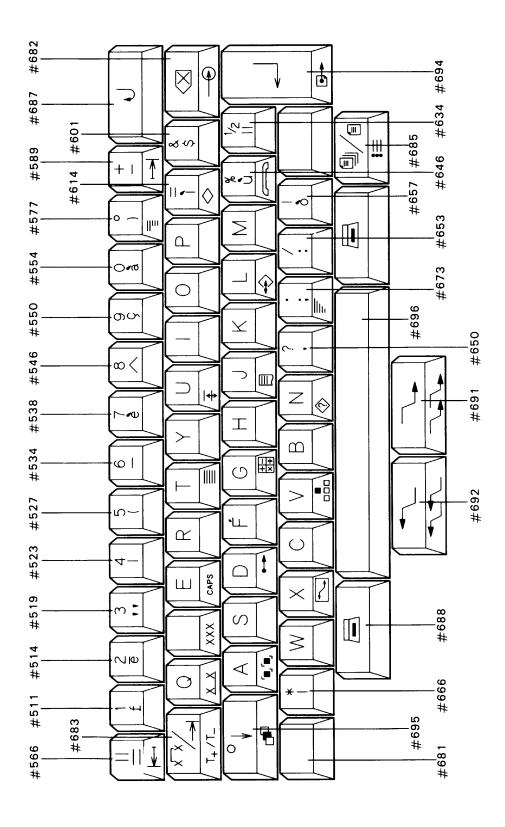
FIGURE			01711	05000101101	25112112	COUNTRY CODE
KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-19 C-19	NY7-4795-000		1	KEYTOP (#510) KEYTOP (#513)	*	ODEFGHIJKL.NO.Q
C-19	NY7-4798-000 NY7-4805-000		Ιί	KEYTOP (#513) KEYTOP (#520)	*	NO
C-19	NY7-4810-000		1	KEYTOP (#525)	*	l
C-19 C-19	NY7-4814-000 NY7-4817-000		1 1	KEYTOP (#529) KEYTOP (#532)	*	GHIJKLO.Q
C-19	NY7-4824-000		i	KEYTOP (#539)	*	
C-19	NY7-4830-000		1	KEYTOP (#545)	*	
C-19 C-19	NY7-4836-000 NY7-4838-000		1 1	KEYTOP (#551) KEYTOP (#553)	*	O
C-19	NY7-4849-000		1	KEYTOP (#565)	*	0
C-19 C-19	NY7-4863-000		1	KEYTOP (#579) KEYTOP (#588)	*	0
C-19	NY7-4872-000 NY7-4875-000		li	KEYTOP R	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4876-000		1	KEYTOP Y	*	ABCDEFGHIJMNOPQR
C-19 C-19	NY7-4877-000 NY7-4878-000			KEYTOP I KEYTOP O	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4879-000		Ιi	KEYTOP P	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4887-000		1	KEYTOP (#597)	*	JQ
C-19 C-19	NY7-4895-000 NY7-4897-000		1 1	KEYTOP Q KEYTOP W	*	DEFKLOP
C-19	NY7-4898-000		li	KEYTOP E	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4900-000		!	KEYTOP T	*	DEFKLM.OP
C-19 C-19	NY7-4902-000 NY7-4916-000		1	KEYTOP U KEYTOP (#613)	*	DEFKLM.OP
C-19	NY7-4920-000		1	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-19 C-19	NY7-4921-000 NY7-4922-000		!	KEYTOP F KEYTOP H	* *	ABCDEFGHIJKLMNOPQR
C-19	NY7-4923-000		1	KEYTOP H KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4927-000		1	KEYTOP (#619)	*	l EF 0 l
C-19 C-19	NY7-4941-000 NY7-4945-000		1	KEYTOP (#633) KEYTOP A	* *	
C-19	NY7-4947-000		Ιί	KEYTOP D	*	DEFKLM.OP
C-19	NY7-4949-000		1	KEYTOP G	*	DEFKLM.OP
C-19 C-19	NY7-4951-000 NY7-4953-000			KEYTOP J KEYTOP L	*	DEFKLM.OP
Č-19	NY7-4968-000		l i	KEYTOP (#649)	*	l
C-19	NY7-4969-000		1	KEYTOP Z	*	ABCDEFGHIJNO.QR
C-19 C-19	NY7-4970-000 NY7-4971-000		1	KEYTOP C KEYTOP B	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4972-000		1	KEYTOP M	*	ABCOEFGHIJKL.NOPQR
C-19 C-19	NY7-4977-000 NY7-4981-000		1 1	KEYTOP (#652) KEYTOP (#656)	*	GHIJKLO
C-19	NY7-4990-000		1	KEYTOP (#665)	*	0
C-19	NY7-4994-000		1	KEYTOP X	*	DEFKLM.OP
C-19 C-19	NY7-4996-000 NY7-4998-000	1	1 1	KEYTOP V KEYTOP N	*	DEFKLM.OP
C-19	NY7-8004-000		i	KEYTOP (#672)	*	KLO
C-19	NY7-8013-000		1	KEYTOP (#681)	*	lEFKLM.OP
C-19 C-19	NY7-8015-000 NY7-8017-000			KEYTOP (#682) KEYTOP (#683)	*	DEFKLM.OP
C-19	NY7-8019-000		1	KEYTOP (#684)	*	DEFKLM.OP
C-19	NY7-8022-000		1	KEYTOP (#685)	*	DEFKLM.QP
C-19 C-19	NY7-8026-000 NY7-8028-000	ŀ	1 2	KEYTOP (#687) KEYTOP (#688)	*	EFLOP DEFKLM.OP
C-19	NY7-8031-000		1	KEYTOP (#691)	*	DEFKLM.OP
C-19 C-19	NY7-8032-000		1	KEYTOP (#692)	*	DEFKLM.OP
C-19	NY7-8036-000 NY7-8038-000		1	KEYTOP (#694) KEYTOP (#695)	*	EFKLM.OP
C-19	NY7-8039-000		i	KEYTOP (#696)	*	ABCDEFGHIJKLMNOPQR
<u> </u>		ь	·		L	1

C-44

"RaskinDoc062_C-44.PICT" 410 KB 2000-02-25 dpi: 500h x 500v pix: 2349h x 3696v

Source: David T. Craig

C-20. KEYTOPS (ITALY)



C-45

"RaskinDoc062_C-45.PICT" 251 KB 2000-02-25 dpi: 500h x 500v pix: 2242h x 3696v

Source: David T. Craig

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C-2O. KEYTOPS (ITALY)

[COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I:

B: ASIA F: LATIN(230V) J:

C: OCEANIA G: NORWAY K:

D: QUEBEC H: DENMARK L:

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE F: LATIN(230V) J: NETHERLANDS N: U.K. G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY Q: S.AFRICA R: JAPAN

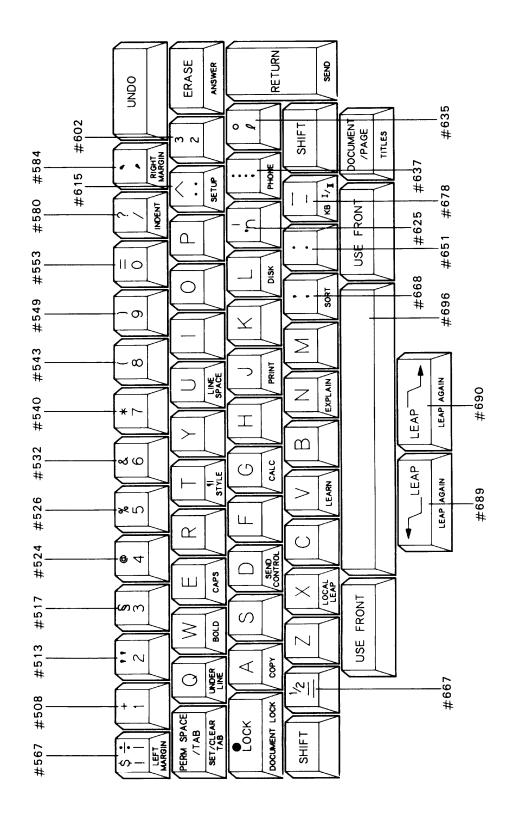
FIGURE				0.5000.500.000	05140110	COUNTRY CODE
KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-20	NY7-4796-000		1	KEYTOP (#511)	*	Р
C-20	NY7-4799-000		1	KEYTOP (#514)	*	M P
C-20	NY7-4804-000	l	1	KEYTOP (#519)	*	
C-20	NY7-4808-000		1	KEYTOP (#523)	*	[
C-20	NY7-4812-000	i	1	KEYTOP (#527)	*	M P
C-20	NY7-4819-000		1 1	KEYTOP (#534)	*	· · · · · · · · · · ·
C-20	NY7-4823-000		1	KEYTOP (#538)	*	
C-20	NY7-4831-000		1	KEYTOP (#546)	*	· · · · · · · · · ·
C-20 C-20	NY7-4835-000 NY7-4839-000		1	KEYTOP (#550) KEYTOP (#554)	*	M. P
C-20	NY7-4850-000		li	KEYTOP (#554) KEYTOP (#566)	*	D
C-20	NY7-4861-000		li	KEYTOP (#577)	*	M. P.
Č-20	NY7-4873-000	1	Ιi	KEYTOP (#589)	*	
Č-20	NY7-4875-000		Ιi	KEYTOP R	*	ABCDEFGHIJKLMNOPQR
Č-20	NY7-4876-000		Ιi	KEYTOP Y	*	ABCDEFGHIJMNOPQR
C-20	NY7-4877-000	l	Ιi	KEYTOP I	*	ABCDEFGHIJKLMNOPQR
C-20	NY7-4878-000		ĺĺ	KEYTOP O	*	EFGHIJ.LOPQ
C-20	NY7-4879-000		1	KEYTOP P	*	ABCDEFGHIJKLMNOPQR
C-20	NY7-4891-000	l	1 1	KEYTOP (#601)	*	Р
C-20	NY7-4895-000] 1	KEYTOP Q	*	DEFKLOP
C-20	NY7-4898-000]]	KEYTOP E	*	ABCDEFGHIJKLMNOPQR
C-20	NY7-4900-000		1	KEYTOP T	*	DEFKLM.OP
C-20	NY7-4902-000		1	KEYTOP U	*	DEFKLM.OP
C-20 C-20	NY7-4905-000		1	KEYTOP Z KEYTOP (#614)	*	
C-20	NY7-4917-000 NY7-4920-000				*	ABCDEFGHIJKLMNOPQR
C-20	NY7-4921-000		Ιi	KEYTOP S KEYTOP F	*	ABCDEFGHIJKLMNOPQR
Č-20	NY7-4922-000		Ιi	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
Č-20	NY7-4923-000		Ιi	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
Č-20	NY7-4924-000		Ιi	KEYTOP M	*	M. P.
C-20	NY7-4942-000		ĺ	KEYTOP (#634)	*	l l
C-20	NY7-4945-000		1	KEYTOP A	*	DEFKLOP
C-20	NY7-4947-000		1	KEYTOP D	*	DEFKLM.OP
C-20	NY7-4949-000		1	KEYTOP G	*	DEFKLM.OP
C-20	NY7-4951-000		1	KEYTOP J	*	DEFKLM.OP
C-20	NY7-4953-000		1	KEYTOP L	*	DEFKLM.OP
C-20	NY7-4965-000		1	KEYTOP (#646)	*	ACCOUNT HE AND COOL
C-20 C-20	NY7-4970-000		1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-20 C-20	NY7-4971-000 NY7-4974-000	1		KEYTOP B KEYTOP W	*	ABCDEFGHIJKLMNOPQR
C-20	NY7-4975-000		Ιi	KEYTOP (#650)	*	
C-20	NY7-4978-000	1	li	KEYTOP (#653)	*	
C-20	NY7-4982-000	l	li	KEYTOP (#657)	*	
C-20	NY7-4991-000		l i	KEYTOP (#666)	*	
C-20	NY7-4994-000	l	1	KEYTOP X	*	DEFKLM.OP
C-20	NY7-4996-000		1	KEYTOP V	*	DEFKLM.OP
C-20	NY7-4998-000	l	1	KEYTOP N	*	DEFKLM.OP
C-20	NY7-8005-000	1	1 1	KEYTOP (#673)	*	MP
C-20	NY7-8013-000	1	1	KEYTOP (#681)	*	EFKLM.OP
C-20	NY7-8015-000	1	1	KEYTOP (#682)	*	DEFKLM.OP
C-20 C-20	NY7-8017-000	1		KEYTOP (#683)	*	DEFKLM.OP
C-20	NY7-8019-000 NY7-8022-000	1		KEYTOP (#684) KEYTOP (#685)	*	DEFKLM.OP DEFKLM.OP
C-20	NY7-8026-000	1	;	KEYTOP (#687)	*	EFL.OP
C-20	NY7-8028-000	1	ĺż	KEYTOP (#688)	*	DEFKLM.OP
C-20	NY7-8031-000	l	Ιī	KEYTOP (#691)	*	DEFKLM.OP
C-20	NY7-8032-000	1	li	KEYTOP (#692)	*	DEFKLM.OP
C-20	NY7-8036-000	l	1	KEYTOP (#694)	*	EFKLM.OP
C-20	NY7-8038-000	l	i	KEYTOP (#695)	*	DEFKLM.OP
C-20	NY7-8039-000	l	1	KEYTOP (#696)	*	ABCDEFGHIJKLMNOPQR
L	·	L	1	***************************************	l	L

C-46

"RaskinDoc062_C-46.PICT" 406 KB 2000-02-25 dpi: 500h x 500v pix: 2328h x 3703v

Source: David T. Craig

C-21. KEYTOPS (S.AFRICA)



C-47

"RaskinDoc062_C-47.PICT" 257 KB 2000-02-25 dpi: 500h x 500v pix: 2228h x 3696v

Source: David T. Craig

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C-21. KEYTOPS (S. AFRICA)

[COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I: SWEDEN

B: ASIA F: LATIN(230V) J: NETHER

C: OCEANIA G: NORWAY K: W.GERW

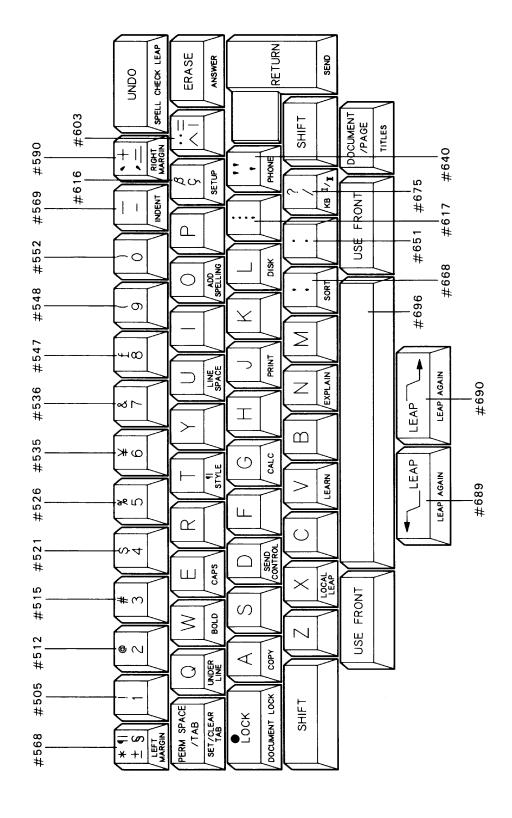
D: QUEBEC H: DENMARK L: SWITZE E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY

FIGURE							COUNTRY CODE
& KEY NO.	PART NUMBER	RANK	Q'TY		DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-21	NY7-4793-000		1	KEYTOP	(#508)	*	LQ
C-21	NY7-4798-000		1	KEYTOP	(#513)	*	DEFGHIJKL.NO.Q
C-21	NY7-4802-000		1	KEYTOP	(#517)	*	
C-21 C-21	NY7-4809-000	ł	1	KEYTOP KEYTOP	(#524) (#526)	*	ABCDEFGHIJKLQR
C-21	NY7-4811-000 NY7-4817-000	l	li	KEYTOP	(#532)	*	GHIJKLO.Q
C-21	NY7-4825-000	l	l i	KEYTOP	(#540)	*	Q
C-21	NY7-4828-000	i	1	KEYT0P	(#543)	*	GHIJKLQ
C-21	NY7-4834-000		1	KEYTOP	(#549)	*	GHIJKLQ
C-21	NY7-4838-000	}		KEYTOP	(#553) (#507)	*	GHIJKLO.QQ.
C-21 C-21	NY7-4851-000 NY7-4864-000		Ιi	KEYTOP KEYTOP	(#567) (#580)	*	
C-21	NY7-4868-000	l	Ιi	KEYTOP	(#584)	*	GHIQ
Č-Ži	NY7-4875-000		Ιi	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4876-000	l	1	KEYTOP	Ÿ	*	ABCDEFGHIJ. MNOPQR
C-21	NY7-4877-000	İ	1	KEYTOP	Ĭ	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4878-000		1 1	KEYTOP	O P	*	EFGHIJ.LOPQ
C-21 C-21	NY7-4879-000 NY7-4892-000			KEYTOP	(#602)	*	ADODEFORITAKEMNOPOR
C-21	NY7-4894-000		li	KEYTOP	Q	*	ABCGHIJNQR
C-21	NY7-4896-000		1 1	KEYT0P	Ŵ	*	ABCGHIJNQR
C-21	NY7-4898-000		1	KEYTOP	Ē	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4899-000		1	KEYTOP	Ţ	*	ABCGHIJNQR
C-21 C-21	NY7-4901-000 NY7-4918-000			KEYTOP KEYTOP	U (#615)	*	ABCUGIIJNQ
C-21	NY7-4920-000		Ιί	KEYTOP	S S	*	ABCDEFGHIJKLMNOPQR
Č-Ži	NY7-4921-000		Ιi	KEYTOP	ř	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4922-000		1	KEYT0P	Н	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4923-000		1 1	KEYTOP	K	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4933-000 NY7-4943-000			KEYTOP	(#625)	* *	Q
C-21 C-21	NY7-4944-000	i	1 1	KEYTOP KEYTOP	(#635) A	*	ABCGHIJNQR
C-21	NY7-4946-000	ł	Ιi	KEYTOP	Ô	*	ABCGHIJNQR
C-21	NY7-4948-000	1	1	KEYTOP	Ğ	*	ABCGHIJNQR
C-21	NY7-4950-000		1 1	KEYTOP	با	*	ABCGHIJNQR
C-21	NY7-4952-000	1	1 1	KEYTOP	(#C27)	*	ABCGHIJNQR
C-21 C-21	NY7-4956-000 NY7-4969-000		li	KEYTOP KEYTOP	(#637) 7	*	ABCDEFGHIJNO.QR
Č-21	NY7-4970-000	1	Ιi	KEYTOP	Z C	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4971-000		1	KEYTOP	B	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4972-000	ŀ	1 1	KEYTOP	M	*	ABCDEFGHIJKL.NOPQR
C-21	NY7-4976-000	ľ	1	KEYTOP	(#651) (#667)	*	ABCDEFNQRQ.
C-21 C-21	NY7-4992-000 NY7-4993-000			KEYTOP KEYTOP	(#667) X	*	ABCGHIJNQR
C-21	NY7-4995-000		li	KEYTOP	ŷ	*	ABCGHIJNQR
C-21	NY7-4997-000	1	i	KEYTOP	Ň	*	ABCGHIJNQR
C-21	NY7-4999-000		1 1	KEYTOP	(#668)	*	ABCQR
C-21	NY7-8010-000		1	KEYTOP	(#678)	*	· · · · · · · · · · · · · ·
C-21 C-21	NY7-8014-000 NY7-8016-000			KEYTOP KEYTOP	SHIFT PERM SPACE/TAB	*	ABC. GHIJ. N. Q
C-21	NY7-8018-000	l	li	KEYTOP	ERASE	*	ABCGHIJNQR
C-21	NY7-8020-000	1	i	KEYTOP	SHIFT	*	ABCGHIJNQR
C-21	NY7-8021-000		1	KEYTOP	DOCUMENT/PAGE	*	ABCGHIJNQR
C-21	NY7-8025-000		1 1	KEYTOP	UNDO	*	QHIJQ
C-21	NY7-8027-000		2	KEYTOP	USE FRONT	*	ABCGHIJNQR ABCGHIJNQR
C-21 C-21	NY7-8029-000 NY7-8030-000			KEYTOP KEYTOP	(#689) (#690)	*	ABCGHIJNQR
C-21	NY7-8035-000		Ιi	KEYTOP	RETURN	*	GHIJNQ
C-21	NY7-8037-000		l i	KEYTOP	LOCK	*	ABCGHIJNQR
C-21	NY7-8039-000		1	KEYTOP	(#696)	*	ABCDEFGHIJKLMNOPQR
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C-48

"RaskinDoc062_C-48.PICT" 417 KB 2000-02-25 dpi: 500h x 500v pix: 2371h x 3696v

C-22. KEYTOPS (JAPAN)



C-49

"RaskinDoc062_C-49.PICT" 254 KB 2000-02-25 dpi: 500h x 500v pix: 2221h x 3696v

Source: David T. Craig

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C-22. KEYTOPS (JAPAN) [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE F: LATIN(230V) J: NETHERLANDS N: U.K. G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY A: USA/CANADA Q: S.AFRICA B: ASIA C: OCEANIA R: JAPAN

D: QUEBEC

FIGURE	DADT NUMBER	DANIK	Q'TY		DESCRIPTION	DEMVONS	COUNTRY CODE
& KEY NO.	PART NUMBER	RANK	Q IT		DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-22	NY7-4790-000		1	KEYT0P	(#505)	*	ABCDIJKR
C-22	NY7-4797-000	1	1	KEYTOP	(#512)	*	ABCR
C-22	NY7-4800-000		1	KEYTOP	(#515)	*	ABCDEFRR.
C-22	NY7-4806-000		1	KEYTOP	(#521) (#500)	*	ABCDEFGHIJKLR ABCDEFGHIJKLQR
C-22	NY7-4811-000		1	KEYTOP	(#526) (#525)	*	ADUUEFURIJALUR
C-22 C-22	NY7-4820-000 NY7-4821-000	l	1 1	KEYTOP KEYTOP	(#535) (#536)	*	ABCDEFNR
C-22	NY7-4832-000	1	li	KEYTOP	(#547)	*	ABOULTR.
C-22	NY7-4833-000		li	KEYTOP	(#548)	*	ABCDEFNR
C-22	NY7-4837-000		Ιi	KEYTOP	(#552)	*	ABCDEFNR
C-22	NY7-4852-000		1	KEYTOP	(#568)	*	RR
C-22	NY7-4853-000	ļ	1	KEYTOP	(#569)	*	ABC
C-22	NY7-4874-000	i	1	KEYTOP	(#590)	*	
C-22	NY7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-22	NY7-4876-000		1 1	KEYTOP	Ā	*	ABCDEFGHIJMNOPQR
C-22	NY7-4877-000	1	1 1	KEYTOP	I	*	ABCDEFGHIJKLMNOPQR
C-22 C-22	NY7-4879-000	l	1 1	KEYTOP	P (#603)	*	ABCDEFGHIJKLMNOPQR
C-22	NY7-4893-000 NY7-4894-000			KEYTOP KEYTOP	(*603) Q	*	ABCGHIJNQR
C-22	NY7-4896-000		li	KEYTOP	W	*	ABC. GHIJ. N. QR.
C-22	NY7-4898-000		li	KEYTOP	Ĕ	*	ABCDEFGHIJKLMNOPQR
C-22	NY7-4899-000		Ιi	KEYTOP	Ŧ	*	ABC. GHIJ. N. QR.
C-22	NY7-4901-000	1	Ιi	KEYTOP	Ù	*	ABCDGHIJNQR
C-22	NY7-4903-000		1	KEYTOP	Ō	*	ABCNR
C-22	NY7-4919-000		1	KEYTOP	(#616)	*	
C-22	NY7-4920-000		1	KEYTOP	S	*	ABCDEFGHIJKLMNOPQR
C-22	NY7-4921-000		1	KEYTOP	F.	*	ABCDEFGHIJKLMNOPQR
C-22	NY7-4922-000		1	KEYTOP	Ĥ	*	ABCDEFGHIJKLMNOPQR
C-22 C-22	NY7-4923-000		1 1	KEYTOP	K (#617)	* *	ABCDEFGHIJKLMNOPQR
C-22	NY7-4925-000 NY7-4944-000		li.	KEYTOP KEYTOP	(*617) A	*	ABCOR
C-22	NY7-4946-000			KEYTOP	Ď	*	ABC GHIJ N. QR
C-22	NY7-4948-000		li	KEYTOP	Ğ	*	ABC. GHIJ. N. QR.
C-22	NY7-4950-000	i	ΙiΙ	KEYTOP	Ĵ	*	ABCGHIJNQR
C-22	NY7-4952-000		1	KEYTOP	L	*	ABCGHIJNQR
C-22	NY7-4959-000		1	KEYTOP	(#640)	*	A8C
C-22	NY7-4969-000		1	KEYTOP	Z	*	ABCDEFGHIJNO.QR
C-22	NY7-4970-000		1	KEYTOP	Ç	*	ABCOEFGHIJKLMNOPQR
C-22	NY7-4971-000	1	1	KEYTOP	В	*	ABCDEFGHIJKLMNOPQR
C-22 C-22	NY7-4972-000 NY7-4976-000	1	1 1	KEYTOP KEYTOP	M (#651)	*	ABCDEFGHIJKL.NOPQR
C-22	NY7-4978-000 NY7-4993-000		l¦	KEYTOP	(#001) X	*	ABCGHIJNQR
C-22	NY7-4995-000	1		KEYTOP	Ŷ	*	ABCGHIJNQR
C-22	NY7-4997-000		li	KEYTOP	Ň	*	ABC. GHIJ. N. QR.
C-22	NY7-4999-000	1	l i l	KEYTOP	(#668)	*	ABC
C-22	NY7-8007-000		i	KEYTOP	(#675)	*	ABCR
C-22	NY7-8016-000		1	KEYTOP	PERM SPACE/TAB	*	ABCGHIJNQR
C-22	NY7-8018-000		1	KEYTOP	ERASE	*	ABCGHIJNQR
C-22	NY7-8020-000	1	1	KEYTOP	SHIFT	*	ABCGHIJNQR
C-22	NY7-8021-000	1	1	KEYTOP	DOCUMENT/PAGE	*	ABCGHIJNQR
C-22 C-22	NY7-8023-000		1 2	KEYTOP	UNDO USE FRONT	*	ABCGHIJNQR
C-22	NY7-8027-000 NY7-8029-000	İ	1	KEYTOP KEYTOP	(#689)	*	ABCGHIJNQR
C-22	NY7-8030-000			KEYTOP	(#690)	*	ABCGHIJNQR
C-22	NY7-8034-000	l	Ιi	KEYTOP	SHIFT	*	ABC
Č-22	NY7-8037-000		Ιi	KEYTOP	LOCK	*	ABCGHIJNQR
C-22	NY7-8039-000		i :	KEYTOP	(#696)	*	ABCDEFGHIJKLMNOPQR
C-22	NY7-8040-000		i	KEYTOP	RETURN	*	ABCR
L	l	<u> </u>		L		L	1

C-50

"RaskinDoc062_C-50.PICT" 406 KB 2000-02-25 dpi: 500h x 500v pix: 2342h x 3703v

Source: David T. Craig

O: SPAIN P: ITALY

D. SCREWS

[COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA

C: OCEANIA

B: ASIA F: LATIN(230V) J: NETHERLANDS N: U.K.

G: NORWAY K: W.GERMANY H: DENMARK L: SWITZERLAND D: QUEBEC

FIGURE	DADT NUMBER	DANIV	0,17	DECCRIPTION	DEMADIA	COUNTRY CODE
& KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
D S 1 D S 2 D S 3 D S 4 D S 5 D S 6 D S 7	X81-2300-405 X81-2300-807 XA9-0412-000 XB4-7300-805 XB5-2400-805 XB5-6300-605 XB6-7400-805		4 5 19 4 2 2	SCREW, BH 3X4 SCREW, BH M3X8 SCREW, BH M3X6 SCREW, BH M3X8 SCREW, BH M4X8 SCREW, TP, PH M3X6 SCREW, BH 3X8	* *	ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR.
D S 8	XB6-7400-807		4	SCREW, TP M3X4	*	ABCDEFGHIJKLMNOPQR

E. TOOLS

[COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA B: ASIA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN

C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN
D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
E 1 E 2 E 3 E 4 E 5 E 6 E 7 E 8 E 9 E 10 E 11	CK-0101 CK-0103 CK-0120 CK-0129 CK-0130 CK-0202 CK-0306 CK-0436 CK-0502 TKC-0470 TKC-0471		1 1 1 1 1 1 1 1 1 1	SCREW DRIVER, PHILLIPS HEAD SCREW DRIVER, PHILLIPS HEAD SCREW DRIVER, PRECISION HEAD SCREW DRIVER, PRECISION PHILLIPS HEAD SCREW DRIVER, PHILLIPS HEAD PLIERS, NEEDLE NOSE TWEEZERS MULTIMETER, DIGITAL ALIGNMENT TOOL KIT ALIGNMENT DISK CLEANING DISK		ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR.

D, E-1

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

A: USA/CANADA

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA
F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN
G: NORWAY K: W.GERMANY O: SPAIN
H: DENMARK L: SWITZERLAND P: ITALY B: ASIA C: OCEANIA D: QUEBEC

FIGURE &	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE
KEY NO.	PANT NUMBER	DHIN	u II	DESCRIPTION	NUMANA	ABCDEFGHIJKLMNOPQR
B 1 2 B 3 5 6 6 7 8 8 9 10 11 3 5 6 6 12 10 9 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	NA1-0868-000 NA1-3834-000 NA1-5152-000 NA1-5152-000 NA1-5156-000 NA1-5156-000 NA1-5156-000 NA1-5156-000 NA1-5160-000 NA1-5160-000 NA1-5160-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5165-000 NA1-5103-000 NA1-5804-000 NF1-1103-000 NF1-1103-000 NF1-1103-000 NF1-1030-000 NG3-1032-000 NG3-1032-000 NG3-1032-000 NG3-1032-000 NG3-1030-000 NH7-0090-000 NH7-0090-000 NH7-0090-000 NH7-0099-000 NH7-0098-000 NH7-0814-000 NH7-0814-000 NH7-0814-000 NH7-0814-000 NH7-0814-000 NH7-0814-000 NH7-0814-000 NH7-0814-000 NH7-0814-000 NH7-0814-000 NH7-0816-000	XXXXXXXX XXXXXXXX	121111221111111111111111111111111111111	KNOB, VARIABLE RESISTOR RUBBER FOOT BASE CASE ESCUTCHEON CRT COVER BASE PLATE EARTH PLATE A EARTH PLATE B MOUNTING PLATE, FDD SHIELD PLATE, CRT BASE CASE (UL) ESCUTCHEON CRT COVER (UL) SHIELD PLATE, CPU PCB SHIELD PLATE, KEYBOARD SPRING, EARTH PLATE NUT BATTERY BOX ASSEMBLY KEYBOARD COVER ASSEMBLY KEYBOARD COVER ASSEMBLY CPU PCB UNIT MOS LSI MBM27C512-25(B93U**) MOS LSI MBM27C512-25(B93U**) MOS LSI HNG2301APC38 MOS LSI HNG2301APC38 MOS LSI HNG2301APC38 MOS LSI HNG2301APC38 MOS LSI MB831000-15P-263 MOS LSI MB831000-15P-264 MOS LSI MB831000-15P-265 CRT/POWER SUPPLY UNIT GOLDSTAR CRT/POWER SUPPLY UN	**************************************	ABCDEFGHI JKLMNOPQR. B. EF.H. JKLMNOPQR. B. EF.H. JKLMNOPQR. B. EF.H. JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ACD. G. I. A.CD. G. I. A.CD. G. I. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ABCDEFGHI JKLMNOPQR. ACD. G. I. A. B. EF.H. JKLMNOPQR. ACD. G. I. A. B. EF.H. JKLMNOPQR. ACD. G. I. ABCDEFGHI JKLMNOPQR.
B 16 B 16 B 16 B 16	NS5-0692-000 NS5-0693-000 NS5-0694-000 NS5-0695-000	N N N	1 1 1 1	KEYBOARD UNIT KEYBOARD UNIT KEYBOARD UNIT KEYBOARD UNIT	*FRU *FRU *FRU *FRU	I
B 16	NS5-0696-000	Ñ	i	KEYBOARD UNIT	*FRU	

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D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
NET NU.			ļ			ADOUCTURITURE MINORAL COMMINSTER
B 16	NS5-0697-000	N	1 1	KEYBOARD UNIT	*FRU	
B 16	NS5-0698-000	N	1	KEYBOARD UNIT	*FRU	
B 16 B 16	NS5-0699-000 NS5-0700-000	N N	1 1	KEYBOARD UNIT KEYBOARD UNIT	*FRU *FRU	
B 16	NS5-0701-000	l n	li	KEYBOARD UNIT	*FRU	
B 16	NS5-0702-000	Ϊ́	li	KEYBOARD UNIT	*FRU	
C-5 Q301	NY7-0798-000		1	TRANSISTOR 2N3PO4		A
C-5 Q703	NY7-0799-000		1	TRANSISTOR 2SD1163A		A
C-5 SG301	NY7-0800-000		1 1	SPARK GAP		A
C-5 SG302 C-5 SG303	NY7-0800-000 NY7-0800-000			Spark gap Spark gap		A
C-5 IC701	NY7-0801-000		Ιi	IC AN 5790N (H.DRIVER)		A
C-5 C303	NY7-0802-000		Ιi	CERAMIC CAP. 100PF		A
C-5 C608	NY7-0803-000		1	CERAMIC CAP. 120PF 50V		A
C-5 C605	NY7-0804-000		1	CERAMIC CAP. 270PF		A
C-5 C922	NY7-0804-000		1 1	CERAMIC CAP. 270PF		A
C-5 C918 C-5 C721	NY7-0805-000 NY7-0806-000		1 1	ALUMINUM CAP. 2200UF 10V ALUMINUM CAP. 47UF 100V		Α
C-5 C613	NY7-0807-000			ALUMINUM CAP. 1000UF 16V		A
C-5 C610	NY7-0808-000	ĺ	Ιi	ALUMINUM CAP. 220UF 16V		A
C-5 C706	NY7-0808-000		1	ALUMINUM CAP. 220UF 16V		A
C-5 C716	NY7-0808-000		1	ALUMINUM CAP. 220UF 16V		A
C-5 C717	NY7-0808-000		1	ALUMINUM CAP. 220UF 16V		A
C-5 C609 C-5 C301	NY7-0809-000 NY7-0810-000		1	ALUMINUM CAP. 2200UF 16V ALUMINUM CAP. 47UF 16V		A
C-5 C924	NY7-0810-000		li	ALUMINUM CAP. 470F 16V		Δ
C-5 C915	NY7-0811-000	İ	l i	ALUMINUM CAP. 470UF 16V		A
C-5 C906	NY7-0812-000		1	ALUMINUM CAP. 10UF 25V		A
C-5 C606	NY7-0813-000		1	ALUMINUM CAP. 22UF 25V		A
C-5 C611	NY7-0814-000		1	ALUMINUM CAP. 220UF 25V		A
C-5 C601 C-5 C912	NY7-0815-000 NY7-0816-000			ALUMINUM CAP. 0.1UF 50V		A
C-5 C701	NY7-0817-000		li	ALUMINUM CAP. 2.2UF 50V		A
C-5 C715	NY7-0818-000		i	ALUMINUM CAP. 470UF 50V		A
C-5 C720	NY7-0819-000		1	ALUMINUM CAP. 10UF 100V		A
C-5 C304	NY7-0820-000	1	1	ALUMINUM CAP. 2.2UF 100V	İ	A
C-5 C916 C-5 C917	NY7-0821-000		1	ALUMINUM CAP. 1600UF 10V		A
C-5 C913	NY7-0821-000 NY7-0822-000			ALUMINUM CAP. 1600UF 10V ALUMINUM CAP. 1000UF 25V		Δ
C-5 C914	NY7-0822-000		Ιi	ALUMINUM CAP. 1000UF 25V	1	A
C-5 C905	NY7-0823-000		i	ALUMINUM CAP. 120UF 200V		A
C-5 C724	NY7-0824-000		1	ALUMINUM CAP. 3.3UF 50V		A
C-5 L702	NY7-0825-000		1 1	CHOKE COIL 3.3UH		A
C-5 C306 C-5 C722	NY7-0826-000	1	1 1	CERAMIC CAP. 0.0022UF 500V		A
C-5 C722 C-5 C302	NY7-0827-000 NY7-0828-000	1		CERAMIC CAP. 0.01UF 1KV		A
C-5 C705	NY7-0828-000		Ιi	CERAMIC CAP. 0.01UF 50V		A
C-5 C612	NY7-0829-000		l i	CERAMIC CAP. 0.1UF 50V		A
C-5 L701	NY7-0830-000		1	COIL, FERRITE BEAD		A
C-5 C702	NY7-0831-000		1	FILM CAP. 0.015UF 100V		A
C-5 C703	NY7-0831-000		1	FILM CAP. 0.015UF 100V		A
C-5 C707 C-5 C711	NY7-0832-000 NY7-0833-000	1		CERAMIC CAP. 0.0022UF		A
C-5 C712	NY7-0833-000			FILM CAP. 0.0220F 100V		A
C-5 C919	NY7-0833-000		Ιi	FILM CAP. 0.022UF 100V	ļ	A
	1	<u> </u>	<u> </u>		<u> </u>	

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H: DENMARK L: SWITZERLAND P: ITALY B: ASIA C: OCEANIA D: QUEBEC

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
C-5 C713	NY7-0834-000		1	FILM CAP. 0.033UF 100V		A
C-5 C908	NY7-0835-000		Ιi	FILM CAP. 0.0047UF 100V		A
C-5 C902	NY7-0836-000		Ιi	CERAMIC CAP. 0.0022UF	1	A
C-5 C903	NY7-0836-000	l	1	CERAMIC CAP. 0.0022UF		A
C-5 C920	NY7-0836-000		1	CERAMIC CAP. 0.0022UF		A
C-5 C921	NY7-0836-000		1	CERAMIC CAP. 0.0022UF		A
C-5 D907	NY7-0837-000	İ	1	DIODE RL4Z		A
C-5 D902	NY7-0838-000	İ	1	DIODE ES1F		A
C-5 T702	NY7-0839-000		1	TRANSFORMER (F.B.T.)		A
C-5 R716	NY7-0840-000		1	RESISTOR 18 OHM 1/2W		A
C-5 IC902	NY7-0841-000		1	IC SI-3122V		A
C-5 L703	NY7-0842-000	}	1	COIL (H.SIZE)		A
C-5 IC904	NY7-0843-000	!	1	IC H11C4		A
C-5 VR704	NY7-0844-000	1	1	VARIABLE RESISTOR 3.3M		A
C-5 T701	NY7-0845-000		!	TRANSFORMER (H.DRIVER)		H
C-5 D301	NY7-0846-000	1	1	ZENER DIODE 7.0		[A
C-5 IC903	NY7-0847-000		1 1	IC S1-3522V		Α
C-5 IC601	NY7-0848-000 NY7-0849-000	1	1	IC TDA 1170N (V.DRIVER)		Α
C-5 D601 C-5 Q902	NY7-0849-000 NY7-0850-000			DIODE KDS 1555 TRANSISTOR KTC1815Y		Λ
C-5 Q901	NY7-0850-000 NY7-0851-000	1		TRANSISTOR KTC18181		Λ
C-5 Q302	NY7-0851-000 NY7-0852-000	l	li	TRANSISTOR KTC21201		Δ
C-5 IC905	NY7-0853-000	ŀ	li	IC L78M12CV	l	Δ
C-5 L901	NY7-0854-000		Ιί	COIL, LINE FILTER	1	A
C-5 L704	NY7-0855-000		Ιi	COIL, (H.LIN)		A
C-5 P703	NY7-0856-000		li	CONNECTOR 3PIN	1	A
C-5 P901	NY7-0857-000		li	CONNECTOR 2PIN	1	A
C-5 P702	NY7-0858-000		1	CONNECTOR 4PIN		A
C-5 C901	NY7-0859-000		1	FILM CAP. 0.1UF 125V		A
C-5 C904	NY7-0859-000		1	FILM CAP. 0.1UF 125V	l	A
C-5 C708	NY7-0860-000		1	FILM CAP. 0.0056UF 100V		A
C-5 C909	NY7-0861-000	1	1	FILM CAP. 0.033UF 100V		A
C-5 C911	NY7-0861-000	l	1	FILM CAP. 0.033UF 100V		A
C-5 C602	NY7-0862-000		1	FILM CAP. 0.1UF 100V	l	A
C-5 C603	NY7-0862-000	1	1	FILM CAP. 0.1UF 100V		[A]
C-5 C604	NY7-0862-000		1	FILM CAP. 0.1UF 100V		A
C-5 C607	NY7-0862-000		1	FILM CAP. 0.1UF 100V		A
C-5 L301	NY7-0863-000		1	COIL 2.2UH		[A
C-5 C710	NY7-0864-000		!	FILM CAP. 0.0027UF 100V		A
C-5 C910	NY7-0865-000		1	FILM CAP. 0.047UF 200V		A
C-5 C925	NY7-0866-000	1	1	FILM CAP. 0.001UF 630V FILM CAP. 0.012UF 400V		A
C-5 C714	NY7-0867-000		1 1	FILM CAP. 0.012UF 400V		Λ
C-5 C907 C-5 D901	NY7-0868-000 NY7-0869-000	}	1 1	DIODE RB-156	1	Λ
	NY7-0869-000 NY7-0870-000		¦	RESISTOR 10 OHM 1/8W		Λ
C-5 R904 C-5 R308	NY7-0870-000					Λ
C-5 R717	NY7-0871-000		1 1	RESISTOR 100 OHM 1/8W		A
C-5 R912	NY7-0871-000		li	RESISTOR 100 OHM 1/8W RESISTOR 100 OHM 1/8W		A
C-5 R702	NY7-0872-000	1	li	RESISTOR 1K OHM 1/8W		A
C-5 R711	NY7-0872-000		Ιi			Ā
C-5 R722	NY7-0873-000		l i	RESISTOR 100K OHM 1/8W		Ā
C-5 R728	NY7-0873-000	1	Ιi	RESISTOR 100K OHM 1/8W		A
C-5 R607	NY7-0874-000		1	I I - I		A
C-5 R616	NY7-0875-000		1	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		A
C-5 R609	NY7-0876-000	1	Ιi	RESISTOR 130K OHM 1/8W]	A
	L	<u> </u>	<u> L </u>	1	<u> </u>	

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P: ITALY D: QUEBEC h: Denmark L: SWITZERLAND

NCT NO. N7-0877-000	FIGURE &	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE
C-5 R713		TANT NOMOLII	THE STATE OF	<u> </u>	DECOMP FLOX	Hammino	ABCDEFGHIJKLMNOPQR
C-5 R907 NY7-080-000	C-5 R911	NY7-0877-000		1	RESISTOR 160 OHM 1/8W		A
C-5 R729		NY7-0878-000	i	1			A
C-5 R614							
C-5 R309							1
C-5 R601 NY7-0883-000 1 RESISTOR 22K OHM 1/8W A							
C-5 B R721 NY7-0884-000 1 RESISTOR 220K OHM 1/5W A . C-5 B623 NY7-0885-000 1 RESISTOR 2.4K OHM 1/5W A . C-5 B623 NY7-0885-000 1 RESISTOR 2.4K OHM 1/5W A . C-5 B708 NY7-0885-000 1 RESISTOR 2.4K OHM 1/5W A . C-5 B714 NY7-0889-000 1 RESISTOR 2.7K OHM 1/5W A . C-5 B716 NY7-0889-000 1 RESISTOR 3.7K OHM 1/5W A . C-5 B724 NY7-0890-000 1 RESISTOR 30K OHM 1/5W A . C-5 B730 NY7-0892-000 1 RESISTOR 33K OHM 1/5W A . C-5 B733 NY7-0892-000 1 RESISTOR 33K OHM 1/5W A . C-5 B733 NY7-0892-000 1 RESISTOR 33K OHM 1/8W A . C-5 B730 NY7-0894-000 1 RESISTOR 33K OHM 1/8W A . C-5 B730 NY7-0895-000 1 RESISTOR 5470 OHM 1/8W A							I .
6.5 B602 NY7-0885-000 1 RESISTOR 2.46 CHM 1/8W A. C-5 B612 NY7-0886-000 1 RESISTOR 2.46 CHM 1/8W A. C-5 B708 NY7-0887-000 1 RESISTOR 2.46 CHM 1/8W A. C-5 B712 NY7-0889-000 1 RESISTOR 2.76 CHM 1/8W A. C-5 B721 NY7-0889-000 1 RESISTOR 2.76 CHM 1/8W A. C-5 B721 NY7-0889-000 1 RESISTOR 3.76 CHM 1/8W A. C-5 B723 NY7-0889-000 1 RESISTOR 3.36 CHM 1/8W A. C-5 B730 NY7-0891-000 1 RESISTOR 3.36 CHM 1/8W A. C-5 B731 NY7-0892-000 1 RESISTOR 3.36 CHM 1/8W A. C-5 B732 NY7-0892-000 1 RESISTOR 3.36 CHM 1/8W A. C-5 B733 NY7-0892-000 1 RESISTOR 3.38 CHM 1/8W A. C-5 B730 NY7-0893-000 1 RESISTOR 3.38 CHM 1/8W A. C-5 B730 NY7-0893-000 1 RESISTOR 4.70 CHM 1/8W A. C-5 B730				1			
C-5 R708 NY7-0888-000 1 RESISTOR 24K CHM 1/8W A							A
C-5 R708 NY7-0887-000 1 RESISTOR 24K OHM 1/8W A A A A A A A A A A A A A A A A A A A		NY7-0885-000	1	1	RESISTOR 2.4K OHM 1/8W		A
C-5 R714 NY7-0888-000 1 RESISTOR 27K CHM 1/8W A A A A A A A A A A A A A A A A A A A							A
C-5 R7124 NY7-0893-000 1 RESISTOR 27K OHM 1/8W A	C-5 R708						A
C-5 R724 NY7-0891-000 1 RESISTOR 30K OHM 1/8W A							A
C-5 R306 N77-0891-000 1 RESISTOR 33 CHM 1/8W A							A
C-5 R731							Δ
C-5 R731 NY7-0892-000 1 RESISTOR 33K OHM 1/8W A							1.
C-5 R732 NY7-0892-000 1 RESISTOR 33N CHM 1/8W A							
C-5 R618 NY7-0893-000 1 RESISTOR 3.3 OHM 1/8W A			l				A
C-5 R304 NY7-0894-000 1 RESISTOR 470 CHM 1/8W A	C-5 R733	NY7-0892-000	ļ	1	RESISTOR 33K OHM 1/8W		A
C-5 R910 NY7-0894-000 1 RESISTOR 470 OHM 1/8W A							1
C-5 R301 NY7-0895-000 1 RESISTOR 47K OHM 1/8W A			ĺ				A
C-5 R730 NY7-0896-000 1 RESISTOR 47K OHM 1/8W A			1				[A
C-5 R610 NY7-0897-000			ļ				A
C-5 R307 NY7-0898-000							Δ
C-5 R613 NY7-0899-000							A
C-5 R909 NY7-0900-000 1 RESISTOR 56K OHM 1/8W A	C-5 R613			1			A
C-5 R701				1 '			1
C-5 R615 NY7-0902-000 1 RESISTOR 6.8K OHM 1/8W A							
C-5 R902							1.
C-5 R913							1
C-5 R718	1			•			I
C-5 R719							
C-5 D911 NY7-0906-000 1 DIODE RDS 1EB2 A. C-5 R903 NY7-0907-000 1 METAL OXIDE RES. 68K 0HM 5W A. C-5 D602 NY7-0908-000 1 DIODE RGP10D A. C-5 D706 NY7-0908-000 1 DIODE RGP10D A. C-5 D710 NY7-0908-000 1 DIODE RGP10D A. C-5 D903 NY7-0908-000 1 DIODE RGP10D A. C-5 D904 NY7-0908-000 1 DIODE RGP10D A. C-5 D905 NY7-0908-000 1 DIODE RGP10D A. C-5 D906 NY7-0908-000 1 DIODE RGP10D A. C-5 D908 NY7-0908-000 1 DIODE RGP10D A. C-5 D910 NY7-0908-000 1 DIODE RGP10D A. C-5 D912 NY7-0908-000 1 DIODE RGP10D A. C-5 D705 NY7-0909-000 1		NY7-0904-000		1	RESISTOR 5.6 OHM 1/2W		A
C-5 R903							A
C-5 D602 NY7-0908-000 1 DIODE RGP10D A. C-5 D706 NY7-0908-000 1 DIODE RGP10D A. C-5 D710 NY7-0908-000 1 DIODE RGP10D A. C-5 D903 NY7-0908-000 1 DIODE RGP10D A. C-5 D904 NY7-0908-000 1 DIODE RGP10D A. C-5 D905 NY7-0908-000 1 DIODE RGP10D A. C-5 D906 NY7-0908-000 1 DIODE RGP10D A. C-5 D908 NY7-0908-000 1 DIODE RGP10D A. C-5 D910 NY7-0908-000 1 DIODE RGP10D A. C-5 D912 NY7-0908-000 1 DIODE RGP10D A. C-5 D912 NY7-0908-000 1 DIODE RGP10D A. C-5 D705 NY7-0909-000 1 DIODE RGP10D A. C-5 D705 NY7-0910-000 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>[A]</td></td<>							[A]
C-5 0706 NY7-0908-000 1 DIODE RGP10D A							A
C-5 D710 NY7-0908-000 1 DTODE RGP10D A. C-5 D903 NY7-0908-000 1 DTODE RGP10D A. C-5 D904 NY7-0908-000 1 DTODE RGP10D A. C-5 D905 NY7-0908-000 1 DTODE RGP10D A. C-5 D906 NY7-0908-000 1 DTODE RGP10D A. C-5 D908 NY7-0908-000 1 DTODE RGP10D A. C-5 D910 NY7-0908-000 1 DTODE RGP10D A. C-5 D910 NY7-0908-000 1 DTODE RGP10D A. C-5 D912 NY7-0908-000 1 DTODE RGP10D A. C-5 D912 NY7-0908-000 1 DTODE RGP10D A. C-5 D705 NY7-0909-000 1 DTODE RGP10D A. C-5 D703 NY7-0910-000 1 DTODE RGP 30G A. C-5 D704 NY7-0910-000 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>1</td><td>1</td></t<>						1	1
C-5 0903 NY7-0908-000 1 DIODE RGP10D A							
C-5 0904 NY7-0908-000 1 DIODE RGP10D A							1.
C-5					DIODE RGP10D		1
C-5 0908 NY7-0908-000 1 DIODE RGP10D A. C-5 0910 NY7-0908-000 1 DIODE RGP10D A. C-5 0912 NY7-0908-000 1 DIODE RGP10D A. C-5 0705 NY7-0909-000 1 DIODE RGP10J A. C-5 0703 NY7-0910-000 1 DIODE RGP 30G A. C-5 0704 NY7-0910-000 1 DIODE RGP 30G A. C-5 0708 NY7-0911-000 1 DIODE RGP10M A. C-5 R901 NY7-0912-000 1 METAL RESISTOR 0.39 OHM 1W A.							A
C-5 0910 NY7-0908-000 1 DIODE RGP10D A							
C-5 D912		1					I -
C-5 D705 NY7-0909-000 1 DIODE RGP10J A							_
C-5 D703							
C-5 D704			1				
C-5 D708			ł				
	C-5 D708	NY7-0911-000					
C-5 R311 NY7-0913-000							
	C-5 R311	NY7-0913-000		1	METAL OXIDE RES. 300 OHM 1W		A

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA
B: ASIA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN
C: OCEANIA G: NORWAY K: W.GERWANY O: SPAIN
D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE						COUNTRY CODE
& KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	
&	PART NUMBER NY7-0914-000 NY7-0915-000 NY7-0918-000 NY7-0919-000 NY7-0920-000 NY7-0920-000 NY7-0921-000 NY7-0923-000 NY7-0923-000 NY7-0926-000 NY7-0926-000 NY7-0926-000 NY7-0928-000 NY7-0928-000 NY7-0928-000 NY7-0928-000 NY7-0931-000 NY7-0931-000 NY7-0931-000 NY7-0931-000 NY7-0931-000 NY7-0938-000 NY7-0938-000 NY7-0938-000 NY7-0938-000 NY7-0938-000 NY7-0938-000 NY7-0938-000 NY7-0938-000 NY7-4565-000 NY7-4565-000 NY7-4566-000 NY7-4560-000 NY7-4560-000 NY7-4560-000	RANK	Q'TY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	METAL OXIDE RESISTOR 15 OHM 2W METAL OXIDE RES. 47K OHM 2W METAL OXIDE RES. 680 OHM 2W METAL OXIDE RES. 680 OHM 2W METAL OXIDE RES. 680 OHM 2W METAL OXIDE RESISTOR 33 OHM 3W DIODE SBS840T TRANSFORMER VARIABLE RESISTOR 100K OHM VARIABLE RESISTOR 100K OHM VARIABLE RESISTOR 100K OHM VARIABLE RESISTOR 220K OHM VARIABLE RESISTOR 220K OHM VARIABLE RESISTOR 220K OHM IC STR11006 FUSE 2A250V CHOKE COIL 10.3UH NEON LAMP 95V ALUMINUM CAP. 220UF 25V THERMISTOR CRT ASSEMBLY DEFLECTION YORK CRT/POWER PCB UNIT () SWITCH/RECEPTACLE ASSEMBLY BRIGHT VOLUME ASSEMBLY HOLDING PLATE(RIGHT), CRT SIDE PLATE(RIGHT), CRT SIDE PLATE(RIGHT), CRT SIDE PLATE(RIGHT), CRT SIDE PLATE(RIGHT), CRT SIDE PLATE(LEFT), CRT SHELD PLATE, CRT PCB SUPPORTER ASSEMBLY LEVER (6U) LEVER (2.25U) LEVER (2.25U) LEVER (2.25U) LEVER (2.25U) LEVER (9U) LEVER (1.75U) SPRING, SPACE KEY LEVER HOLDER SCREW, PH M2.6X6 KEYBOARD CABLE PUSH SWITCH WITH LED PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH WITH LED PUSH SWITCH PUSH SWITCH (#505) KEYTOP (#505) KEYTOP (#505)	**************************************	COUNTRY CODE ABCDEFGHIJKLMNOPQR. A
C-13 C-14 C-15 C-22 C-10 C-18 C-11	NY7-4790-000 NY7-4790-000 NY7-4790-000 NY7-4790-000 NY7-4791-000 NY7-4791-000 NY7-4792-000		1 1 1 1 1 1		* * * * * * * * *	

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE
F: LATIN(230V) J: NETHERLANDS N: U.K.
G: NORWAY K: W.GERMANY 0: SPAIN A: USA/CANADA Q: S.AFRICA R: JAPAN

B: ASIA C: OCEANIA D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE &	PART NUMBER	RANK	Ø, TA	DESCRIPTION	REMARKS	COUNTRY CODE
KEY NO.						ABCDEFGHIJKLMNOPQR
C-12	NY7-4792-000		1	KEYTOP (#507)	*	GH
	NY7-4793-000		1	KEYTOP (#508)	*	Q
C-21	NY7-4793-000		1	KEYTOP (#508)	*	LQ
C-17	NY7-4794-000		1	KEYTOP (#509)	*	
C-19	NY7-4795-000		1	KEYTOP (#510)	*	
C-20	NY7-4796-000		1	KEYTOP (#511)	*	P
C-8	NY7-4797-000	l	1	KEYTOP (#512)	*	ABC
C-22	NY7-4797-000	l	1	KEYTOP (#512)	*	ABCR
C-9	NY7-4798-000		1	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
	NY7-4798-000	ł	1	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-11	NY7-4798-000	1	1	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-12	NY7-4798-000		1	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-13	NY7-4798-000	ĺ	1	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-14	NY7-4798-000	ļ.	1 1	KEYTOP (#513) KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-15	NY7-4798-000			KEYTOP (#513) KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-16 C-18	NY7-4798-000 NY7-4798-000		1 1	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-19	NY7-4798-000		Ιi	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-21	NY7-4798-000		Ιi	KEYTOP (#513)	*	DEFGHIJKL.NO.Q
C-17	NY7-4799-000		Ιi	KEYTOP (#514)	*	MP
C-20	NY7-4799-000		Ιi	KEYTOP (#514)	*	M. P.
C-8	NY7-4800-000		Ιi	KEYTOP (#515)	*	ABCDEFR
C-9	NY7-4800-000		1	KEYTOP (#515)	*	ABCDEFR
C-10	NY7-4800-000		1	KEYTOP (#515)	*	ABCDEFR
C-22	NY7-4800-000		1	KEYTOP (#515)	*	ABCDEFRR
C-11	NY7-4801-000		1	KEYTOP (#516)	*	GHIJ
C-12	NY7-4801-000		1	KEYTOP (#516)	*	GHIJ
C-13	NY7-4801-000		1	KEYTOP (#516)	*	GHIJ
C-14	NY7-4801-000		1	KEYTOP (#516)	*	GHIJ
C-15	NY7-4802-000		1 1	KEYTOP (#517)	*	g
C-21	NY7-4802-000		1 1	KEYTOP (#517)	*	QQ
C-16	NY7-4803-000		!	KEYTOP (#518)	*	M. P.
C-17	NY7-4804-000		!	KEYTOP (#519)	*	M. P.
C-20 C-18	NY7-4804-000 NY7-4805-000		1 1	KEYTOP (#519) KEYTOP (#520)	*	NO
C-19	NY7-4805-000		li	KEYTOP (#520)	*	NO.
C-8	NY7-4806-000	Ì	li	KEYTOP (#521)	*	ABCDEFGHIJKLR
l č-š	NY7-4806-000		Ιi	KEYTOP (#521)	*	ABCDEFGHIJKLR
C-10	NY7-4806-000		Ιi	KEYTOP (#521)	*	ABCDEFGHIJKLR
C-11	NY7-4806-000	1	Ιi	KEYTOP (#521)	*	ABCDEFGHIJKLR
C-12	NY7-4806-000		i	KEYTOP (#521)	*	ABCDEFGHIJKLR
C-13	NY7-4806-000		1	KEYTOP (#521)	*	ABCDEFGHIJKLR
C-14	NY7-4806-000		1	KEYTOP (#521)	*	ABCDEFGHIJKLR
C-15	NY7-4806-000	1	1	KEYTOP (#521)	*	ABCDEFGHIJKLR
C-22	NY7-4806-000	1	1	KEYTOP (#521)	*	ABCDEFGHIJKLR
C-16	NY7-4807-000		1	KEYTOP (#522)	*	l
C-17	NY7-4808-000	1	1 1	KEYTOP (#523)	*	MP
C-20	NY7-4808-000		1 1	KEYTOP (#523)	*	
C-18	NY7-4809-000	1	!	KEYTOP (#524)	*	N. Q
C-21	NY7-4809-000	1	1	KEYTOP (#524)	*	NQ
C-19	NY7-4810-000		1	KEYTOP (#525)	*	ABCDEFGHIJKLQR
C-8	NY7-4811-000	1		KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-9 C-10	NY7-4811-000 NY7-4811-000			KEYTOP (#526) KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-10 C-11	NY7-4811-000	1	1 1	KEYTOP (#526)	*	ABCDEFGHIJKLQR
Ľ''	4011-000	I.	l '_	The Tot (1020)	<u> </u>	TIDOUS WILDING

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN A: USA/CANADA B: ASIA C: OCEANIA

D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE	DADT NUMBER	DANIZ	O'TY	OCCONTINU	DCMVD/C	COUNTRY CODE
KEY NO.	PART NUMBER	rank	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-12	NY7-4811-000		1	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-13	NY7-4811-000		1	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-14	NY7-4811-000		1	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-15	NY7-4811-000		1	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-16	NY7-4811-000		1	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-21	NY7-4811-000		1	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-22	NY7-4811-000		1	KEYTOP (#526)	*	ABCDEFGHIJKLQR
C-17	NY7-4812-000		1	KEYTOP (#527)	*	· · · · · · · · · · M · · P · · · · · ·
C-20	NY7-4812-000		1	KEYTOP (#527)	*	
C-18	NY7-4813-000		1	KEYTOP (#528)	*	
C-19	NY7-4814-000		1	KEYTOP (#529)	*	
C-8	NY7-4815-000		1	KEYTOP (#530)	*	ABCD
C-9	NY7-4815-000		1	KEYTOP (#530)	*	ABCD
C-10	NY7-4816-000		1	KEYTOP (#531)	*	EFN
C-18 C-11	NY7-4816-000 NY7-4817-000		1	KEYTOP (#531) KEYTOP (#532)	*	EFN
C-12	NY7-4817-000 NY7-4817-000		1 1	KEYTOP (#532) KEYTOP (#532)	*	GHIJKLO.Q
C-13	NY7-4817-000		li	KEYTOP (#532)	*	GHIJKLO.Q
C-14	NY7-4817-000		li	KEYTOP (#532)	*	GHIJKLO.Q
C-15	NY7-4817-000			KEYTOP (#532)	*	GHIJKLO.Q
C-16	NY7-4817-000		i	KEYTOP (#532)	*	GHIJKLO.Q
C-19	NY7-4817-000		1	KEYTOP (#532)	*	GHIJKLO.Q
C-21	NY7-4817-000		1	KEYTOP (#532)	*	GHIJKLO.Q
C-17	NY7-4818-000		i	KEYTOP (#533)	*	M.
C-20	NY7-4819-000		i	KEYTOP (#534)	*	P
C-22	NY7-4820-000		i	KEYTOP (#535)	*	
C-8	NY7-4821-000		i	KEYTOP (#536)	*	ABCOEFNR
C-9	NY7-4821-000		1	KEYTOP (#536)	*	ABCDEFNR
C-10	NY7-4821-000		1	KEYTOP (#536)	*	ABCDEFNR
C-18	NY7-4821-000		1	KEYTOP (#536)	*	ABCDEFNR
C-22	NY7-4821-000		1	KEYTOP (#536)	*	ABCDEFNR
C-11	NY7-4822-000		1	KEYTOP (#537)	*	GHIJKL
C-12	NY7-4822-000		1	KEYTOP (#537)	*	GHIJKL
C-13	NY7-4822-000		1	KEYTOP (#537)	*	GHIJKL
C-14	NY7-4822-000		1	KEYTOP (#537)	*	GHIJKL
C-15	NY7-4822-000		1	KEYTOP (#537)	*	GHIJKL
C-16	NY7-4822-000		1	KEYTOP (#537)	*	GHIJKL
C-17	NY7-4823-000		1	KEYTOP (#538)	*	
C-20	NY7-4823-000		1	KEYTOP (#538)	*	
C-19	NY7-4824-000		1	KEYTOP (#539)	*	
C-21	NY7-4825-000		1	KEYTOP (#540)	*	[. <u></u>
C-8	NY7-4826-000		1	KEYTOP (#541)	*	ABCD
C-9	NY7-4826-000		1	KEYTOP (#541)	*	ABCD
C-10	NY7-4827-000		1	KEYTOP (#542)	*	<u>EF</u> <u>N</u>
C-18	NY7-4827-000		1	KEYTOP (#542)	*	EFN
C-11	NY7-4828-000		1	KEYTOP (#543)	*	GHIJKLQ
C-12 C-13	NY7-4828-000		1	KEYTOP (#543)	*	GHIJKLQ
	NY7-4828-000		1	KEYTOP (#543)	*	GHIJKLQ
C-14 C-15	NY7-4828-000		1	KEYTOP (#543)	*	GHIJKLQ
C-16	NY7-4828-000		1	KEYTOP (#543)	*	GHI JKLQ
C-21	NY7-4828-000 NY7-4828-000		1	KEYTOP (#543)	*	GHIJKLQ
C-17	NY7-4828-000 NY7-4829-000		1 1	KEYTOP (#543)	*	GHIJKLQ
C-19	NY7-4829-000 NY7-4830-000		1	KEYTOP (#544) KEYTOP (#545)	*	
C-20	NY7-4831-000		1	KEYTOP (#545) KEYTOP (#546)	*	
L 20	1111-4001-000		'	NETTOF (#J40)	*	

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN A: USA/CANADA

B: ASIA C: OCEANIA G: NORWAY D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

REYNO. REMARKS RANK Q'TY DESCRIPTION REMARKS ABCOEFGHI,KLIMOPGR REMARKS REVERTING REMARKS RECORD REVITOP (#547) *		1	T	1			ľ	
REY NO.	FIGURE							COUNTRY CODE
C-22 NY7-4833-000 1 KEYTOP (#647) * ABODEF. N. R. C-9 NY7-4833-000 1 KEYTOP (#648) * ABODEF. N. R. C-9 NY7-4833-000 1 KEYTOP (#648) * ABODEF. N. R. ABODEF. N. R. C-10 NY7-4833-000 1 KEYTOP (#648) * ABODEF. N. R. ABODEF. N. R. C-11 NY7-4833-000 1 KEYTOP (#648) * ABODEF. N. R. ABODEF. N. R. C-11 NY7-4833-000 1 KEYTOP (#648) * ABODEF. N. R. C-11 NY7-4834-000 1 KEYTOP (#648) * ABODEF. N. R. C-11 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-13 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-14 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-15 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-16 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-16 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-17 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-18 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-19 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-19 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-19 NY7-4834-000 1 KEYTOP (#649) * GHIJKI. Q. C-19 NY7-4835-000 1 KEYTOP (#650) * MIJKI. Q. C-19 NY7-4835-000 1 KEYTOP (#650) * MIJKI. Q. C-19 NY7-4835-000 1 KEYTOP (#650) * MIJKI. Q. C-19 NY7-4835-000 1 KEYTOP (#650) * MIJKI. Q. C-19 NY7-4835-000 1 KEYTOP (#650) * MIJKI. Q. C-19 NY7-4835-000 1 KEYTOP (#650) * MIJKI. Q. C-19 NY7-4835-000 1 KEYTOP (#650) * MIJKI. Q. C-19 NY7-4835-000 1 KEYTOP (#652) * ABODEF. N. R. C-19 NY7-4837-000 1 KEYTOP (#652) * ABODEF. N. R. C-19 NY7-4837-000 1 KEYTOP (#652) * ABODEF. N. R. C-19 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-11 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-11 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-11 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-11 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-11 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-11 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-11 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-11 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-11 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-12 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-12 NY7-4838-000 1 KEYTOP (#653) * GHIJKI. Q. C. C-11 NY7-4838-000 1 KEYTOP (#658) * GHIJKI. Q. C. C-11 NY7-4838-000		PART NUMBER	RANK	Q'TY		DESCRIPTION	REMARKS	A COOREGULT HAY AMADOOD
C-9 NY7-4833-000 1 KEYTOP (#549) * ABCOEFN.R. R. C-10 NY7-4833-000 1 KEYTOP (#548) * ABCOEFN.R. R. C-11 NY7-4833-000 1 KEYTOP (#548) * ABCOEFN.R. ABCOEFN.R. R. C-22 NY7-4833-000 1 KEYTOP (#548) * ABCOEFN.R. ABCOEFN.R. ABCOEFN.R. R. C-11 NY7-4834-000 1 KEYTOP (#549) * ABCOEFN.R. ABCOEF.	KEY NO.			l				ABCDELCHIJKEMNOLOK
C-9 NY7-4833-000 1 KEYTOP (#549) * ABCOEFN.R. R. C-10 NY7-4833-000 1 KEYTOP (#548) * ABCOEFN.R. R. C-11 NY7-4833-000 1 KEYTOP (#548) * ABCOEFN.R. ABCOEFN.R. R. C-22 NY7-4833-000 1 KEYTOP (#548) * ABCOEFN.R. ABCOEFN.R. ABCOEFN.R. R. C-11 NY7-4834-000 1 KEYTOP (#549) * ABCOEFN.R. ABCOEF.	0.00	NV7 4000 000			VENTOD	(HC 47)	*	P
C-9 NY7-4833-000 1 KEYTOP (#548) ** ABGOEFNR. C-10 NY7-4833-000 1 KEYTOP (#548) ** ABGOEFNR. C-22 NY7-4833-000 1 KEYTOP (#548) ** ABGOEFNR. C-12 NY7-4834-000 1 KEYTOP (#549) ** ABGOEFNR. C-12 NY7-4834-000 1 KEYTOP (#549) ** GHIJKLQ C-13 NY7-4834-000 1 KEYTOP (#549) ** GHIJKLQ C-14 NY7-4834-000 1 KEYTOP (#549) ** GHIJKLQ C-15 NY7-4834-000 1 KEYTOP (#549) ** GHIJKLQ C-16 NY7-4834-000 1 KEYTOP (#549) ** GHIJKLQ C-17 NY7-4834-000 1 KEYTOP (#549) ** GHIJKLQ C-17 NY7-4835-000 1 KEYTOP (#549) ** GHIJKLQ C-17 NY7-4835-000 1 KEYTOP (#550) ** <t< td=""><td></td><td></td><td>i</td><td></td><td></td><td></td><td></td><td></td></t<>			i					
C-10							I .	1.0002.
C-18 NY7-4833-000 1 KEYTOP (#548) * ABCOEF. N. R. C-22 NY7-4833-000 1 KEYTOP (#548) * ABCOEF. N. R. C-12 NY7-4834-000 1 KEYTOP (#549) * GHJMK. O. C-13 NY7-4834-000 1 KEYTOP (#549) * GHJMK. O. C-14 NY7-4834-000 1 KEYTOP (#549) * GHJMK. O. C-15 NY7-4834-000 1 KEYTOP (#549) * GHJMK. O. C-16 NY7-4834-000 1 KEYTOP (#549) * GHJMK. O. C-17 NY7-4834-000 1 KEYTOP (#549) * GHJMK. O. C-17 NY7-4838-000 1 KEYTOP (#549) * GHJMK. O. C-17 NY7-4838-000 1 KEYTOP (#550) * M.P. C-19 NY7-4837-000 1 KEYTOP (#550) * M.P. C-9 NY7-4837-000 1 KEYTOP (#552) * ABCOEF. N. R. C-10 NY7-4837-000 1 KEYTOP (#552) * ABCOEF. N. R. C-11 NY7-4837-000 1 <			i			7 7 7		
C-22 NY7-4833-000 1 KEYTOP (#549) * ABCOEF. N. R. C-11 NY7-4834-000 1 KEYTOP (#549) * GHJMLQ. C-13 NY7-4834-000 1 KEYTOP (#549) * GHJMLQ. C-14 NY7-4834-000 1 KEYTOP (#549) * GHJMLQ. C-15 NY7-4834-000 1 KEYTOP (#549) * GHJMLQ. C-16 NY7-4834-000 1 KEYTOP (#549) * GHJMLQ. C-21 NY7-4834-000 1 KEYTOP (#549) * GHJMLQ. C-21 NY7-4835-000 1 KEYTOP (#549) * GHJMLQ. C-17 NY7-4835-000 1 KEYTOP (#550) * M.P. C-19 NY7-4837-000 1 KEYTOP (#550) * M.P. C-9 NY7-4837-000 1 KEYTOP (#552) * ABCOEF. N. R. C-10 NY7-4837-000 1 KEYTOP (#552) * ABCOEF. N.							l -	
C-12				1			1 '	
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C-13								
C-14						7 7 7	1	
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C-17	1 7 7 7							
C-20							1	
C-19							1	
C-8						7 7 7 7 7	l *	
C-9						7 7	1 -	
C-10								
C-18						2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
C-22							1	
C-11					1			
C-12						1 .1		
C-13		l .				2 1 1 1 2		
C-14								
C-15				1			1	
C-16			1					
C-19 NY7-4838-000			İ				1	
C-21							1 '	
C-17							*	
C-20			l				*	M. P.
C-8							*	
C-9				Ιi		(#555)	*	ABC
C-11 NY7-4843-000		NY7-4841-000	1	1	KEYTOP	(#556)	*	D
C-12 NY7-4843-000	C-10	NY7-4842-000		1	KEYT0P	(#557)	*	EF
C-14 NY7-4843-000	C-11	NY7-4843-000	ł	1		(#558)	*	
C-13 NY7-4844-000	C-12	NY7-4843-000	1	1	KEYTOP	(#558)	*	
C-15 NY7-4845-000	C-14	NY7-4843-000		1	KEYTOP	(#558)	1	1
C-16 NY7-4846-000			1	1		3 1 1 1 2		1
C-17 NY7-4847-000 1 KEYTOP (#563) *			1				1 '	
C-18 NY7-4848-000 1 KEYTOP (#564) *	1		1				1 '	
C-19 NY7-4849-000 1 KEYTOP (#565) *						I . I	1 '	1
C-20 NY7-4850-000 1 KEYTOP (#566) *				1				
C-21 NY7-4851-000 1 KEYTOP (#567) *						1 1111		
C-22 NY7-4852-000 1 KEYTOP (#568) *			1			1 1	1 '	· · · · · · · · · · · · · · · · · · ·
C-8 NY7-4853-000 1 KEYTOP (*569) * ABC		1	1				1	1
C-22 NY7-4853-000 1 KEYTOP (#569) * ABCR C-9 NY7-4854-000 1 KEYTOP (#570) * C-17 NY7-4855-000 1 KEYTOP (#571) *	1		1	1 :			1 :	400
C-9 NY7-4854-000 1 KEYTOP (#570) *0			1				1	h -
C-17 NY7-4855-000 1 KEYTOP (#571) *					KETTUP		1	
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			İ			I I	1	KK.
[1 MIT-4000-000 1 MITION (**014)	L 0= 13	1411-4030-000		<u> </u>	I NETTOP	("014)	L	1

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

A: USA/CANADA

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY B: ASIA C: OCEANIA D: QUEBEC

FIGU & KEY	l P	ART NUMBER	rank	Q'TY		DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
C-14		IY7-4859-000		1	KEYTOP	(#575)	*	J
C-16		177-4860-000			KEYTOP	(#576)	*	
C-17		IY7-4861-000		1	KEYTOP	(#577)	*	
C-20		177-4861-000		1	KEYTOP	(#577)	*	
C-18		177-4862-000		1	KEYTOP	(#578)	*	N
C-19		177-4863-000		1	KEYTOP	(#579)	*	0
C-21		Y7-4864-000		i	KEYTOP	(#580)	*	l
C-8		177-4865-000		li	KEYTOP	(#581)	*	ABCN
C-18		Y7-4865-000		i	KEYTOP	(#581)	*	ABCN
C-10		Y7-4866-000		i	KEYTOP	(#582)	*	EF
C-9		lY7-4867-000	i .	li	KEYTOP	(#583)	*	0
C-11		lY7-4868-000		li	KEYTOP	(#584)	*	GHI Q.
C-12		lY7-4868-000		li	KEYTOP	(#584)	*	GHIQ.
C-13		Y7-4868-000		li	KEYTOP	(#584)	*	GHIQ.
C-21		lY7-4868-000	1	Ιi	KEYTOP	(#584)	*	GHIQ.
C-15		Y7-4869-000		Ιi	KEYTOP	(#585)	*	K
C-14		Y7-4870-000		Ιi	KEYTOP	(#586)	*	
C-16		Y7-4871-000		li	KEYTOP	(#587)	*	
C-19		Y7-4872-000	ĺ	li	KEYTOP	(#588)	*	l
C-20		Y7-4873-000		1	KEYTOP	(#589)	*	
C-22	l N	IY7-4874-000		1	KEYTOP	(#590)	*	l
C-8		Y7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-9	l N	Y7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-10	l N	Y7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-11	N	Y7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-12	N	Y7-4875-000		1	KEYT0P	R	*	ABCDEFGHIJKLMNOPQR
C-13	l N	Y7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-14	l N	Y7-4875-000		1	KEYT0P	R	*	ABCDEFGHIJKLMNOPQR
C-15	N	Y7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-16	l N	Y7-4875-000		1	KEYT0P	R	*	ABCDEFGHIJKLMNOPQR
C-17	N	Y7-4875-000		1	KEYT0P	R	*	ABCDEFGHIJKLMNOPQR
C-18	N	Y7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-19		Y7-4875-000		1	KEYT0P	R	*	ABCDEFGHIJKLMNOPQR
C-20		1Y7-4875-000		1	KEYT0P	R	*	ABCDEFGHIJKLMNOPQR
C-21		Y7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-22		Y7-4875-000		1	KEYTOP	R	*	ABCDEFGHIJKLMNOPQR
C-8		Y7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-9		Y7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-10		Y7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-11		Y7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-12		Y7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-13		IY7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-14		IY7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-17	1	IY7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-18		IY7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-19		1Y7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-20		IY7-4876-000]	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-21		1Y7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJ. MNOPQR
C-22		1Y7-4876-000		1	KEYTOP	Y	*	ABCDEFGHIJMNOPQR
C-8		Y7-4877-000		1	KEYTOP	Î	*	ABCDEFGHIJKLMNOPQR
C-9		1Y7-4877-000		1	KEYTOP	Ī	*	ABCDEFGHIJKLMNOPQR
C-10		IY7-4877-000		1	KEYTOP	Ī	*	ABCDEFGHIJKLMNOPQR
C-11		IY7-4877-000		1	KEYTOP	Ī	*	ABCDEFGHIJKLMNOPQR
C-12		IY7-4877-000		1	KEYTOP	Ĩ	*	ABCDEFGHIJKLMNOPQR
I C-13	1 N	IY7-4877-000	1	1	KEYTOP	I	*	ABCDEFGHIJKLMNOPQR

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW]

COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA
B: ASIA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN
C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN
D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

B: ASIA C: OCEANIA D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

KEY NO. ABCDEFGHIJH C-14 NY7-4877-000 1 KEYTOP I * ABCDEFGHIJH C-15 NY7-4877-000 1 KEYTOP I * ABCDEFGHIJH	
C-15 NY7-4877-000	
	(LMNOPQR
C-20 NY7-4877-000 1 KEYTOP I * ABCDEFGHIJ	(LMNOPQR
C-21 NY7-4877-000 1 KEYTOP I * ABCDEFGHIJH	(LMNOPQR
	(LMNOPQR
	.L0PQ
	.L0PQ
	.LOPQ
C-13 NY7-4878-000 1 KEYTOP O * EFGHIJ.	.L0PQ
	LOPQ
C-16 NY7-4878-000 1 KEYTOP O * EFGHIJ.	.L0PQ
	LOPQ
	.L0PQ
	.L0PQ
C-8	KLMNOPQR
C-9 NY7-4879-000 1 KEYTOP P * ABCDEFGHIJI	KLMNOPQR
C-10 NY7-4879-000 1 KEYTOP P * ABCDEFGHIJI	KLMNOPQR
	KLMNOPQR
C-12 NY7-4879-000	KLMNOPQR
C-13 NY7-4879-000 1 KEYTOP P * ABCOEFGHIJI	KLMNOPQR
C-14 NY7-4879-000 1 KEYTOP P * ABCDEFGHIJI	KLMNOPQR
C-15	KLMNOPQR
C-16	KLMNOPQR
C-17 NY7-4879-000 1 KEYTOP P * ABCDEFGHIJI	KLMNOPQR
	KLMNOPQR
C-19	KLMNOPQR
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	KLMNOPQR
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C-15 NY7-4886-000 1 KEYTOP (#596) *	Κ
	0
C-19 NY7-4887-000 1 KEYTOP (#597) * J	0
C-16 NY7-4888-000 1 KEYTOP (#598) *	.L
C-17 NY7-4889-000 1 KEYTOP (#599) *	M
	N. <u>.</u>
	P <u>.</u>
	Q
10 07 1000 000 000 1 1 1 1000000 2000	R
1. 1 1 1 1	NQR
14 1 1 1 1 1 1 1.	NQR
	NQR
	NQR
C-14 NY7-4894-000 1 KEYTOP Q * ABCGHIJ	NQR

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

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G: NORWAY K: W.GERMANY O: SPAIN A: USA/CANADA B: ASIA C: OCEANIA

D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE &	PART NUMBER	RANK	Q'TY		DESCRIPTION	REMARKS	COUNTRY CODE
KEY NO.							ABCDEFGHIJKLMNOPQR
C-18	NY7-4894-000		1	KEYTOP	Q	*	ABCGHIJNQR
C-21	NY7-4894-000		1	KEYTOP	Q	*	ABCGHIJNQR
C-22	NY7-4894-000		1	KEYTOP	Q	*	ABCGHIJNQR
C-9	NY7-4895-000		1	KEYTOP	Q	*	DEFKLOP
C-10	NY7-4895-000		1	KEYTOP	Q .	*	DEFKLOP
C-15	NY7-4895-000		1 1	KEYTOP	Q	*	DEFKLOP
C-16	NY7-4895-000		1 1	KEYTOP	Q	*	DEFKLOP
C-19	NY7-4895-000		Ιi	KEYTOP	Q	*	DEFKLOP
C-20	NY7-4895-000		1	KEYTOP	Q	*	DEFKLOP
C-8	NY7-4896-000		1	KEYTOP	Ŵ	*	ABCGHIJNQR
C-11	NY7-4896-000		1	KEYTOP	Ŵ	*	ABCGHIJNQR
C-12	NY7-4896-000		1	KEYTOP	W	*	ABCGHIJNQR
C-13	NY7-4896-000		l 1	KEYT0P	Ŵ	*	ABCGHIJNQR
C-14	NY7-4896-000		1	KEYTOP	W	*	ABCGHIJNQR
C-18	NY7-4896-000		i	KEYTOP	W	*	ABC. GHIJ. N. QR.
C-21	NY7-4896-000		1	KEYTOP	Ŵ	*	ABCGHIJNQR
C-22	NY7-4896-000		1	KEYTOP	W	*	ABCGHIJNQR
C-9	NY7-4897-000		1	KEYT0P	W	*	DEFKLO
C-10	NY7-4897-000		1	KEYTOP	W	*	DEFKLO
C-15	NY7-4897-000		1	KEYTOP	W	*	DEFKLO
C-16	NY7-4897-000		1	KEYTOP	W	*	DEFKLO
C-19	NY7-4897-000		1	KEYTOP	W	*	DEFKLO
C-8	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-4898-000		1	KEYTOP	Ē	*	ABCDEFGHIJKLMNOPQR
C-10	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-12	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-14	NY7-4898-000		1	KEYT0P	E	*	ABCDEFGHIJKLMNOPQR
C-15	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-16	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-18	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-20	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-22	NY7-4898-000		1	KEYTOP	E	*	ABCDEFGHIJKLMNOPQR
C-8 C-11	NY7-4899-000		1	KEYTOP	Ţ	*	ABCGHIJNQR
C-12	NY7-4899-000		1	KEYTOP	Ţ	*	ABCGHIJNQR
C-12	NY7-4899-000 NY7-4899-000		1	KEYTOP	Ţ	*	ABCGHIJNQR
C-14			1	KEYTOP	T	*	ABCGHIJNQR
C-14 C-18	NY7-4899-000 NY7-4899-000		1	KEYTOP KEYTOP	Ţ	*	ABCGHIJNQR
C-21	NY7-4899-000 NY7-4899-000		1		T	*	ABCGHIJNQR
C-22	NY7-4899-000 NY7-4899-000			KEYTOP	Ť	*	ABCGHIJNQR
C-9	NY7-4899-000 NY7-4900-000		-	KEYTOP	T T	*	ABCGHIJNQR
C-10	NY7-4900-000 NY7-4900-000	ı	1	KEYTOP KEYTOP		*	DEFKLM.OP
C-15	NY7-4900-000 NY7-4900-000		1	KEYTOP	T	*	DEFKLM.OP
C-16	NY7-4900-000	Ī	- i	KEYTOP	T T	*	DEFKLM.OP
C-17	NY7-4900-000		i	KEYTOP	†	*	DEFKLM.OP
C-19	NY7-4900-000		i	KEYTOP	†	*	DEFKLM.OP
C-20	NY7-4900-000		il	KEYTOP	†	*	DEFKLM.OP
C-8	NY7-4901-000		il	KEYTOP	ΰ	*	ABCDGHIJNQR
C-11	NY7-4901-000		- i	KEYTOP	Ŭ	*	ABCD. GHIJ. N. QR.
C-12	NY7-4901-000		1	KEYTOP	ŭ	*	ABCD. GHIJ. N. QR.

F-11

"RaskinDoc062_F-11.PICT" 381 KB 2000-02-25 dpi: 500h x 500v pix: 2335h x 3710v

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE
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N: U.K. O: SPAIN B: ASIA C: OCEANIA D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE					251112112	COUNTRY CODE
KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-13	NY7-4901-000		1	KEYTOP U	*	ABCDGHIJNQR
C-14	NY7-4901-000	1	1	KEYTOP U	*	ABCDGHIJNQR
C-18	NY7-4901-000		1	KEYTOP U	*	ABCOGHIJNQR
C-21	NY7-4901-000		1	KEYTOP U	*	ABCDGHIJNQR
C-22	NY7-4901-000		1	KEYTOP U	* *	DEFKLM.OP
C-9	NY7-4902-000		1 1	KEYTOP U KEYTOP U	* *	DEFKLM.OP
C-10	NY7-4902-000 NY7-4902-000			KEYTOP U KEYTOP U	*	DEFKLM.OP
C-15 C-16	NY7-4902-000		li	KEYTOP U	*	DEFKLM.OP
C-17	NY7-4902-000		li	KEYTOP U	*	DEFKLM.OP
C-19	NY7-4902-000]	Ιi	KEYTOP U	*	DEFKLM.OP
C-20	NY7-4902-000		Ιi	KEYTOP U	*	DEFKLM.OP
C-8	NY7-4903-000	1	Ιi	KEYTOP O	*	ABCNR
C-18	NY7-4903-000	l	Ιi	KEYTOP O	*	ABC
C-22	NY7-4903-000		1 i	KEYTOP O	*	ABC
C-9	NY7-4904-000		li	KEYTOP O	*	DK.M
C-15	NY7-4904-000	İ	1	KEYTOP O	*	DK.M
C-17	NY7-4904-000		1	KEYTOP O	*	DK.M
C-17	NY7-4905-000	1	1	KEYTOP Z	*	
C-20	NY7-4905-000		1	KEYTOP Z	*	
C-17	NY7-4906-000	ł	1	KEYTOP A	*	
C-8	NY7-4907-000		1	KEYTOP (#604)	*	ABC
C-9	NY7-4908-000		1	KEYTOP (#605)	*	D
C-10	NY7-4909-000		1	KEYTOP (#606)	*	EF
C-11	NY7-4910-000	l	1	KEYTOP (#607)	*	GHI
C-12	NY7-4910-000		1	KEYTOP (#607)	*	GHI
C-13	NY7-4910-000		1	KEYTOP (#607)	*	GHI
C-15	NY7-4911-000		1 1	KEYTOP (#608)	*	[K
C-14	NY7-4912-000		1	KEYTOP (#609)	* *	l
C-16 C-17	NY7-4913-000 NY7-4914-000	1	1	KEYTOP (#610) KEYTOP (#611)	*	M
C-18	NY7-4914-000	1	¦	KEYTOP (#612)	*	N
C-19	NY7-4916-000	1	Ιi	KEYTOP (#613)	*	
C-20	NY7-4917-000		Ιi	KEYTOP (#614)	*	P
C-21	NY7-4918-000	l	Ιi	KEYTOP (#615)	*	Q
C-22	NY7-4919-000	1	Ιi	KEYTOP (#616)	*	R
C-8	NY7-4920-000		Ιi	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-4920-000		1	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-10	NY7-4920-000		1	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4920-000]	1	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-12	NY7-4920-000		1	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4920-000	1	1	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-14	NY7-4920-000		1	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-15	NY7-4920-000		1	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-16	NY7-4920-000		1 1	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4920-000		1	KEYTOP S	 *	ABCDEFGHIJKLMNOPQR
C-18	NY7-4920-000		1 1	KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4920-000		1 1	KEYTOP S	*	ABCDEFCHIJKLMNOPQR
C-20	NY7-4920-000 NY7-4920-000		1 1	KEYTOP S KEYTOP S	*	ABCDEFGHIJKLMNOPQR
C-21 C-22	NY7-4920-000			KEYTOP S KEYTOP S	* *	ABCDEFGHIJKLMNOPQR
C-22 C-8	NY7-4921-000			KEYTOP 5	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-4921-000	1	Ιί	KEYTOP F	*	ABCOEFGHIJKLMNOPQR
C-10	NY7-4921-000		Ι¦	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4921-000		li	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
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F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE F: LATIN(230V) J: NETHERLANDS N: U.K. G: NORWAY K: W.GERMANY O: SPAIN A: USA/CANADA Q: S.AFRICA R: JAPAN

B: ASIA C: OCEANIA D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE						COUNTRY CODE
& KEY NO.	PART NUMBER	rank	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-12	NY7-4921-000		1	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4921-000		1	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-14	NY7-4921-000	1	1	KEYTOP F KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-15	NY7-4921-000	l	1	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-16	NY7-4921-000	1	1	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4921-000	1	1 1	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-18	NY7-4921-000		1	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4921-000		1	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-20	NY7-4921-000		1	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4921-000		1	KEYTOP F	*	ABCDEFCHIJKLMNOPQR
C-22	NY7-4921-000		1	KEYTOP F	*	ABCDEFGHIJKLMNOPQR
C-8	NY7-4922-000	1	1	KEYTOP H	*	ABCOEFGHIJKLMNOPQR
C-9	NY7-4922-000		1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-10	NY7-4922-000	ŀ	1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4922-000		1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-12	NY7-4922-000	1	1 1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4922-000		1 1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-14	NY7-4922-000	l	1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-15	NY7-4922-000		1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-16	NY7-4922-000		1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4922-000	l	1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-18	NY7-4922-000	1	1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4922-000		1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-20	NY7-4922-000	1	1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4922-000	1	1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-22	NY7-4922-000	l	1	KEYTOP H	*	ABCDEFGHIJKLMNOPQR
C-8	NY7-4923-000	1	1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-9	NY7-4923-000	1	1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-10	NY7-4923-000		1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-11	NY7-4923-000		1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-12	NY7-4923-000		1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-13	NY7-4923-000		1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-14	NY7-4923-000		1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-15	NY7-4923-000		1 1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-16	NY7-4923-000]	1 1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4923-000		1 1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-18	NY7-4923-000		1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-19	NY7-4923-000		1 1	KEYTOP K	*	ABCDEFGHI JKLMNOPQR
C-20	NY7-4923-000		1 1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-21	NY7-4923-000		1 1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-22	NY7-4923-000	}	1	KEYTOP K	*	ABCDEFGHIJKLMNOPQR
C-17	NY7-4924-000		1 !	KEYTOP M	*	MP
C-20	NY7-4924-000		1	KEYTOP M	*	M. P.
C-8	NY7-4925-000	1	1 1	KEYTOP (#617)	*	ABCDRR.
C-9	NY7-4925-000		1 1	KEYTOP (#617)	*	ABCDR
C-22	NY7-4925-000	1	1 1	KEYTOP (#617)	*	ABCDRR.
C-18	NY7-4926-000	1	!	KEYTOP (#618)	*	N
C-10	NY7-4927-000	1	!	KEYTOP (#619)	*	EF0
C-19	NY7-4927-000		!	KEYTOP (#619)	*	EF0
C-11	NY7-4928-000	1	1 !	KEYTOP (#620)	*	G
C-12	NY7-4929-000	1	!	KEYTOP (#621)	*	· · · · · · · · · · · · · · · · · · ·
C-13	NY7-4930-000		!	KEYTOP (#622)	*	I.K
C-15	NY7-4930-000		!	KEYTOP (#622)	*	I.K
C-14	NY7-4931-000		1	KEYTOP (#623)	*	J
C-16	NY7-4932-000	Ì	1	KEYTOP (#624)	*	
L	1	ı		I		I

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"RaskinDoc062_F-13.PICT" 390 KB 2000-02-25 dpi: 500h x 500v pix: 2364h x 3703v

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

A: USA/CANADA B: ASIA C: OCEANIA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY

N: U.K. O: SPAIN P: ITALY D: QUEBEC L: SWITZERLAND

FIGURE	T	Γ.	I	<u> </u>			COLBITOR COOL
&	PART NUMBER	RANK	Q'TY		DESCRIPTION	REMARKS	COUNTRY CODE
KEY NO.							ABCDEFGHIJKLMNOPQR
C-21	NY7-4933-000		1	KEYTOP	(#625)	*	Q
C-10	NY7-4934-000		1	KEYTOP	(#626)	*	EF
C-11	NY7-4935-000		1	KEYTOP	(#627)	*	GHI
C-12	NY7-4935-000		1	KEYTOP	(#627)	*	GHI
C-13	NY7-4935-000		1	KEYTOP	(#627)	*	GHI
C-15	NY7-4936-000		1	KEYTOP	(#628)	*	K
C-14 C-16	NY7-4937-000		1	KEYTOP	(#629)	*	· · · · · · · · · · · · · · · · · · ·
C-17	NY7-4938-000 NY7-4939-000		1	KEYTOP	(#630) (#631)	*	
C-18	NY7-4940-000		1	KEYTOP KEYTOP	(#631) (#632)	*	
C-19	NY7-4941-000		li	KEYTOP	(#633)	*	······
Č-20	NY7-4942-000		li	KEYTOP	(#634)	*	
C-21	NY7-4943-000		li	KEYTOP	(#635)	*	l
C-8	NY7-4944-000		i	KEYTOP	Α	*	ABCGHIJNQR
C-11	NY7-4944-000		1	KEYTOP	Ä	*	ABC GHIJ N QR
C-12	NY7-4944-000		1	KEYTOP	Ä	*	ABCGHIJNQR
C-13	NY7-4944-000		1	KEYT0P	Ä	*	ABCGHIJNQR
C-14	NY7-4944-000		1	KEYTOP	Α	*	ABCGHIJNQR
C-18	NY7-4944-000		1	KEYT0P	Α	*	ABCGHIJNQR
C-21	NY7-4944-000		1	KEYTOP	Α	*	ABCGHIJNQR
C-22	NY7-4944-000		1	KEYTOP	Α	*	ABCGHIJNQR
C-9	NY7-4945-000		1	KEYTOP	Α	*	DEFKLOP
C-10	NY7-4945-000		1	KEYTOP	A	*	DEFKLOP
C-15	NY7-4945-000		1	KEYTOP	A	*	DEFKLOP
C-16 C-19	NY7-4945-000		1	KEYTOP	A	*	DEFKLOP
C-20	NY7-4945-000 NY7-4945-000		1	KEYTOP	A	*	DEFKLOP
C-8	NY7-4946-000		1	KEYTOP KEYTOP	A D	*	DEFKLOP
C-11	NY7-4946-000	- 1	i	KEYTOP	D	*	ABCGHIJNQR
C-12	NY7-4946-000		il	KEYTOP	D	*	ABCGHIJNQR ABCGHIJNQR
C-13	NY7-4946-000		- i l	KEYTOP	Ď	*	ABCGHIJNQR
C-14	NY7-4946-000	l	1	KEYTOP	Ď	*	ABC. GHIJ. N. QR.
C-18	NY7-4946-000	ľ	1	KEYTOP	D	*	ABCGHIJNQR
C-21	NY7-4946-000	j	1	KEYTOP	D	*	ABCGHIJNQR
C-22	NY7-4946-000	1	1	KEYTOP	D	*	ABCGHIJNQR
C-9	NY7-4947-000		1	KEYTOP	D	*	DEFKLM.OP
C-10 C-15	NY7-4947-000		1	KEYTOP	D	*	DEFKLM.OP
C-16	NY7-4947-000 NY7-4947-000		1	KEYTOP	D	*	DEFKLM.OP
C-17	NY7-4947-000 NY7-4947-000		1	KEYTOP	D	*	DEFKLM.OP
C-19	NY7-4947-000 NY7-4947-000		11	KEYTOP KEYTOP	D D	*	DEFKLM.OP
C-20	NY7-4947-000		1	KEYTOP	D	*	DEF KLM OP
C-8	NY7-4948-000		i	KEYTOP	G	*	DEFKLM.OP ABCGHIJNQR
C-11	NY7-4948-000		il	KEYTOP	G	*	ABCGHIJNQR
C-12	NY7-4948-000		i	KEYTOP	Ğ	*	ABCGHIJNQR
C-13	NY7-4948-000	- 1	1	KEYTOP	Ğ	*	ABC. GHIJ. N. QR.
C-14	NY7-4948-000		1	KEYTOP	G	*	ABCGHIJNQR
C-18	NY7-4948-000		1	KEYTOP	G	*	ABCGHIJNQR
C-21	NY7-4948-000			KEYTOP	G	*	ABCGHIJNQR
C-22	NY7-4948-000		1	KEYTOP	G	*	ABCGHIJNQR
C-9 C-10	NY7-4949-000			KEYTOP	G	*	DEFKLM.OP
C-10 C-15	NY7-4949-000			KEYTOP	G	*	DEFKLM.OP
C-16	NY7-4949-000			KEYTOP	G	*	DEFKLM.OP
C-16 C-17	NY7-4949-000 NY7-4949-000			KEYTOP	G	*	DEFKLM.OP
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1411-4343-000		1	KEYTOP	G	*	DEFKLM.OP

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN G: NORWAY K: W.GERMANY O: SPAIN H: DENMARK L: SWITZERLAND P: ITALY A: USA/CANADA
B: ASIA
C: OCEANIA
D: QUEBEC

FIÇURE							COUNTRY CODE
& KEY NO.	PART NUMBER	Rank	Q'TY		DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-19	NY7-4949-000		1	KEYT0P	G	*	DEFKLM.OP
C-20	NY7-4949-000		1	KEYTOP	G	*	DEFKLM.OP
C-8	NY7-4950-000		1	KEYTOP	J	*	ABCGHIJNQR
C-11	NY7-4950-000	ļ	1	KEYTOP	J	*	ABCGHIJNQR
C-12	NY7-4950-000		1	KEYT0P	J	*	ABCGHIJNQR
C-13	NY7-4950-000		1	KEYTOP	J	*	ABCGHIJNQR
C-14	NY7-4950-000		1	KEYT0P	J	*	ABCGHIJNQR
C-18	NY7-4950-000		1	KEYTOP	J	*	ABCGHIJNQR
C-21	NY7-4950-000		1	KEYT0P	J	*	ABCGHIJNQR
C-22	NY7-4950-000		1	KEYTOP	J	*	ABCGHIJNQR
C-9	NY7-4951-000	l	1	KEYTOP	J	*	DEFKLM.OP
C-10	NY7-4951-000	l	1	KEYTOP	J	*	DEFKLM.OP
C-15	NY7-4951-000	1	1	KEYTOP	J	*	DEFKLM.OP
C-16	NY7-4951-000	l	1	KEYTOP	J	*	DEFKLM.OP
C-17	NY7-4951-000		1	KEYTOP	J	*	DEFKLM.OP
C-19	NY7-4951-000	1	1	KEYTOP	J	*	DEFKLM.OP
C-20	NY7-4951-000		1	KEYT0P	J	*	DEFKLM.OP
C-8	NY7-4952-000		1	KEYTOP	L	*	ABCGHIJNQR
C-11	NY7-4952-000		1	KEYT0P	L	*	ABCGHIJNQR
C-12	NY7-4952-000		1	KEYTOP	L	*	ABCGHIJNQR
C-13	NY7-4952-000		1	KEYT0P	L	*	ABCGHIJNQR
C-14	NY7-4952-000		1	KEYT0P	L	*	ABCGHIJNQR
C-18	NY7-4952-000		1	KEYT0P	L	*	ABCGHIJNQR
C-21	NY7-4952-000	ŀ	1	KEYTOP	L	*	ABCGHIJNQR
C-22	NY7-4952-000	ļ] 1	KEYT0P	L	*	ABCGHIJNQR
C-9	NY7-4953-000		1	KEYTOP	L	*	DEFKLM.OP
C-10	NY7-4953-000		1	KEYTOP	L	*	DEFKLM.OP
C-15	NY7-4953-000		1	KEYTOP	Ļ	*	DEFKLM.OP
C-16	NY7-4953-000		1	KEYTOP	Ļ	*	DEFKLM.OP
C-17	NY7-4953-000		1	KEYTOP	Ļ	*	DEFKLM.OP
C-19	NY7-4953-000		1	KEYTOP	L	*	DEFKLM.OP
C-20	NY7-4953-000		1	KEYTOP	Ĺ	*	DEFKLM.OP
C-17	NY7-4954-000		1	KEYTOP	Q	*	M
C-10	NY7-4955-000	ĺ	1	KEYTOP	(#636)	*	EF
C-21	NY7-4956-000		1	KEYTOP	(#637)	*	Q
C-12	NY7-4957-000	1	1	KEYTOP	(#638)	*	
C-11	NY7-4958-000		1	KEYTOP	(#639)	*	G
C-8	NY7-4959-000	1	1 1	KEYTOP	(#640)	*	ABC
C-22	NY7-4959-000		1	KEYTOP	(#640)	*	ABCR
C-9	NY7-4960-000		1 1	KEYTOP	(#641)	*	D
C-13	NY7-4961-000	1	1 1	KEYTOP	(#642)	*	I
C-15	NY7-4962-000		1 1	KEYTOP	(#643)	*	K
C-14	NY7-4963-000		1	KEYTOP	(#644)	*	[
C-16	NY7-4964-000		1	KEYTOP	(#645)	*	· · · · · · · · · · ·
C-20	NY7-4965-000		1 1	KEYTOP	(#646)	*	P
C-17	NY7-4966-000	1	1	KEYTOP	(#647)	*	
C-18	NY7-4967-000		1	KEYTOP	(#648)	*	N
C-19	NY7-4968-000	1	1	KEYTOP	(#649)	*	ADDOCTORIT NO OD
C-8	NY7-4969-000		1	KEYTOP	Ζ	*	ABCDEFGHIJNO.QR
C-9	NY7-4969-000		1	KEYTOP	Z	*	ABCDEFGHIJNO.QR
C-10	NY7-4969-000		1	KEYTOP	Z	*	ABCDEFGHIJNO.QR
C-11	NY7-4969-000	1	1	KEYTOP	Z	*	ABCDEFGHIJNO.QR
C-12	NY7-4969-000	1	1	KEYTOP	Z	*	ABCDEFGHIJNO.QR
C-13	NY7-4969-000		1	KEYTOP	Z	*	ABCDEFGHIJNO.QR
C-14	NY7-4969-000	1	1	KEYT0P	Z	*	ABCDEFGHIJNO.QR
L	L	<u> </u>	ь	L			l

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

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C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN
D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

B: ASIA C: OCEANIA D: QUEBEC L: SWITZERLAND P: ITALY

REY NO.	FIGURE &	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE
C-71	KEY NO.						ABCDEFGHIJKLMNOPQR
C-21 NYT-4959-000	C-18	NY7-4969-000		1		*	ABCDEFGHIJNO.QR
C-21 NYT-4959-000		NY7-4969-000		1	KEYTOP Z	*	ABCDEFGHIJNO.QR
C-8				1	KEYTOP Z	*	ABCDEFGHIJNO.QR
C-8		NY7-4969-000		1	KEYTOP Z	*	ABCDEFGHIJNO.QR
C-10		NY7-4970-000		1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-11	C-9	NY7-4970-000		1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-11	C-10	NY7-4970-000		1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-13	C-11	NY7-4970-000		1		*	ABCDEFGHIJKLMNOPQR
C-14	C-12	NY7-4970-000		1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-15	C-13	NY7-4970-000		1.	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-16		NY7-4970-000		1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-17	C-15	NY7-4970-000		1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-17	C-16			1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-19	C-17	NY7-4970-000		1	KEYTOP C	*	
C-20		NY7-4970-000		1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-20		NY7-4970-000			KEYTOP C		
C-21				1	KEYTOP C	*	•
C-22		NY7-4970-000		1	KEYTOP C	*	
C-9	C-22	NY7-4970-000		1	KEYTOP C	*	ABCDEFGHIJKLMNOPQR
C-9	C-8	NY7-4971-000		1 1	KEYTOP B	*	ABCDEFGHIJKLMNOPQR
C-10		NY7-4971-000		1		*	ABCDEFGHIJKLMNOPQR
C-11	C-10	NY7-4971-000		1	KEYTOP B	*	
C-12	C-11	NY7-4971-000		1	KEYTOP B	*	
C-13	C-12			1		*	
C-14	C-13	NY7-4971-000		1		*	
C-16	C-14	NY7-4971-000		1		*	
C-16	C-15	NY7-4971-000		1		*	ABCDEFGHIJKLMNOPQR
C-17	C-16			1		*	
C-18	C-17	NY7-4971-000		1		*	
C-20		NY7-4971-000		1		*	ABCDEFGHIJKLMNOPQR
C-21				1		*	ABCDEFGHIJKLMNOPQR
C-22						*	ABCDEFGHIJKLMNOPQR
C-8		NY7-4971-000		1	KEYTOP B	*	ABCDEFGHIJKLMNOPQR
C-9			Ì		KEYTOP B	*	ABCDEFGHIJKLMNOPQR
C-10					KEYTOP M	*	ABCDEFGHIJKL.NOPQR
C-11					KEYTOP M	*	ABCDEFGHIJKL.NOPQR
C-12						*	ABCOEFGHIJKL.NOPQR
C-13						*	
C-14							
C-15							
C-16	1					1 1	
C-18			1				
C-19						1	
C-21 NY7-4972-000 1 KEYTOP M * ABCDEFGHIJKL NOPQR. C-22 NY7-4972-000 1 KEYTOP M * ABCDEFGHIJKL NOPQR. C-15 NY7-4973-000 1 KEYTOP Y * KL. C-16 NY7-4974-000 1 KEYTOP W * KL. C-17 NY7-4974-000 1 KEYTOP W * M.P. C-20 NY7-4975-000 1 KEYTOP (#650) * M.P. C-20 NY7-4975-000 1 KEYTOP (#650) * M.P. C-8 NY7-4976-000 1 KEYTOP (#651) * ABCDEFN.QR.						1 '	
C-22						1	
C-15 NY7-4973-000 1 KEYTOP Y *	1 ^ ^					1 '	
C-16 NY7-4973-000 1 KEYTOP Y *	10-22						ABCDEFGHIJKL.NOPQR
C-17 NY7-4974-000 1 KEYTOP W *			l		_		
C-20 NY7-4974-000 1 KEYTOP W *	_						
C-17 NY7-4975-000 1 KEYTOP (#650) * M. P. C-20 NY7-4975-000 1 KEYTOP (#650) * M. P. C-8 NY7-4976-000 1 KEYTOP (#651) * ABCDEFN. QR.			ŀ			i 1	
C-20	1 .				KEYTOP W	1 1	
C-8 NY7-4976-000 1 KEYTOP (#651) * ABCDEFNQR							
			ŀ				
ן איזי-49'6-UUU 1 KEYTUP (#651) * ABCDEF							
, , , , , , , , , , , , , , , , , , , ,	J U-9	NY/-4976-000		1	KEYTUP (#651)	*	ABCDEFNQR

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"RaskinDoc062_F-16.PICT" 394 KB 2000-02-25 dpi: 500h x 500v pix: 2321h x 3696v

Source: David T. Craig

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

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G: NORWAY L: SWITZERLAND P: ITALY D: QUEBEC H: DENMARK

FIGURE	2427 1111052	241114	0171	05000101101	OCHADIC	COUNTRY CODE
& KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
C-10	NY7-4976-000		1	KEYTOP (#651)	*	ABCDEFNQR
C-18	NY7-4976-000		i	KEYTOP (#651)	*	ABCDEFNQR
C-21	NY7-4976-000		1	KEYTOP (#651)	*	ABCDEFNQR
Č-22	NY7-4976-000		1	KEYTOP (#651)	*	ABCDEFNQR
C-11	NY7-4977-000		li	KEYTOP (#652)	*	GHIJKLO
C-12	NY7-4977-000		i	KEYTOP (#652)	*	GHIJKLO
C-13	NY7-4977-000		Ιi	KEYTOP (#652)	*	GHIJKLO
C-14	NY7-4977-000		li	KEYTOP (#652)	*	GHIJKLO
C-15	NY7-4977-000		li	KEYTOP (#652)	*	GHIJKLO
C-16	NY7-4977-000		1	KEYTOP (#652)	*	GHIJKLO
C-19	NY7-4977-000		li	KEYTOP (#652)	*	GHIJKLO
C-17	NY7-4978-000		li	KEYTOP (#653)	*	l l
C-20	NY7-4978-000		Ιi	KEYTOP (#653)	*	
C-11	NY7-4979-000		Ιi	KEYTOP (#654)	*	GHIJK
C-12	NY7-4979-000		Ιi	KEYTOP (#654)	*	GHIJK
C-13	NY7-4979-000		1	KEYTOP (#654)	*	GHIJK
C-14	NY7-4979-000		Ιi	KEYTOP (#654)	*	GHIJK
C-15	NY7-4979-000		1	KEYTOP (#654)	*	GHIJK
C-17	NY7-4980-000	i	1	KEYTOP (#655)	*	
C-19	NY7-4981-000		1	KEYTOP (#656)	*	0
C-20	NY7-4982-000		1	KEYTOP (#657)	*	
C-10	NY7-4983-000		1	KEYTOP (#658)	*	EF
C-11	NY7-4984-000		1	KEYTOP (#659)	*	GH
C-12	NY7-4984-000		1	KEYTOP (#659)	*	GH <u>.</u>
C-13	NY7-4985-000		1	KEYTOP (#660)	*	I
C-15	NY7-4986-000		1	KEYTOP (#661)	*	K.M
C-17	NY7-4986-000		1	KEYTOP (#661)	*	K.M
C-14	NY7-4987-000		1	KEYTOP (#662)	*	J
C-16	NY7-4988-000		1	KEYTOP (#663)	*	
C-18	NY7-4989-000		1	KEYTOP (#664)	*	
C-19 C-20	NY7-4990-000		1 1	KEYTOP (#665) KEYTOP (#666)	*	
C-20 C-21	NY7-4991-000 NY7-4992-000		Ι¦	KEYTOP (#667)	*	Q
C-8	NY7-4993-000		Ιi	KEYTOP X	*	ABCGHIJNQR
C-11	NY7-4993-000		Ιi	KEYTOP X	*	ABC. GHIJ. N. QR.
C-12	NY7-4993-000		Ιi	KEYTOP X	*	ABC. GHIJ. N. QR.
C-13	NY7-4993-000		Ιi	KEYTOP X	*	ABCGHIJNQR
C-14	NY7-4993-000		Ιi	KEYTOP X	*	ABCGHIJNQR
C-18	NY7-4993-000		li	KEYTOP X	*	ABCGHIJNQR
C-21	NY7-4993-000		Ιi	KEYTOP X	*	ABCGHIJNQR
C-22	NY7-4993-000	1	1	KEYTOP X	*	ABCGHIJNQR
C-9	NY7-4994-000		1	KEYTOP X	*	DEFKLM.OP
C-10	NY7-4994-000	ĺ	1	KEYTOP X	*	DEFKLM.OP
C-15	NY7-4994-000		1 1	KEYTOP X	*	DEFKLM.OP
C-16	NY7-4994-000		1	KEYTOP X	*	DEFKLM.OP
C-17	NY7-4994-000		1	KEYTOP X	*	DEFKLM.QP
C-19	NY7-4994-000	1	1	KEYTOP X	*	DEFKLM.OP
C-20	NY7-4994-000		1	KEYTOP X	*	DEFKLM.OP
C-8	NY7-4995-000		1 1	KEYTOP V	*	ABCGHIJNQR
C-11	NY7-4995-000		1 !	KEYTOP V	*	ABCGHIJNQR
C-12	NY7-4995-000		1 1	KEYTOP V	*	ABCGHIJNQR
C-13	NY7-4995-000		1	KEYTOP V	*	ABCGHIJNQR
C-14	NY7-4995-000	1	1 1	KEYTOP V	* *	ABCGHIJNQR
C-18 C-21	NY7-4995-000 NY7-4995-000			KEYTOP V	*	ABCGHIJNQR
0-21	1411-4333-000	<u> </u>	<u> </u>	INCITOF V	<u> </u>	DOCGITO

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"RaskinDoc062_F-17.PICT" 381 KB 2000-02-25 dpi: 500h x 500v pix: 2356h x 3711v

Source: David T. Craig

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW] COUNTRY CODE:

A: USA/CANADA E: LATIN(115V) I: SWEDEN/FINLAND M: FRANCE Q: S.AFRICA
B: ASIA F: LATIN(230V) J: NETHERLANDS N: U.K. R: JAPAN
C: OCEANIA G: NORWAY K: W.GERMANY O: SPAIN
D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY B: ASIA C: OCEANIA D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

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C: OCEANIA D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFCHIJKLMNOPOR
	NY7-6622-000 NY7-6623-000 NY7-6626-000 NY7-6626-000 NY7-6626-000 NY7-6626-000 NY7-6627-000 NY7-6628-000 NY7-6630-000 NY7-6631-000 NY7-6631-000 NY7-6632-000 NY7-6632-000 NY7-6632-000 NY7-6636-000 NY7-6632-000 NY7-6638-000 NY7-6638-000 NY7-6638-000 NY7-6640-000 NY7-8001-000	RANK	Q'TY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DESCRIPTION FILM CAP. 0.22UF 100V FUSE 2A 250V TRANSISTOR 2SC1942-20 IC AS431 DIODE 1N4606 DIODE 1N4606 DIODE 1N4606 ZENER DIODE A40MA DIODE RGP10J DIODE RGP10B DIODE 1N4001GP DIODE RGP10M DIODE BRIDGE KBP08-5001 THYRISTOR C122U RESISTOR 330K OHM 1/2W RESISTOR 10HM 1W RESISTOR 10HM 1W RESISTOR 10HM 1W RESISTOR 1.5MH CHOKE COIL TRANSFORMER TRANSFORMER CHOKE COIL CHOKE COIL CHOKE COIL TRANSFORMER DIODE DIO	REMARKS ***********************************	COUNTRY CODE ABCDEFGHIJKLMNOPQR
C-9 C-21 C-16	NY7-8009-000 NY7-8010-000 NY7-8011-000		1 1 1	KEYTOP (#677) KEYTOP (#678) KEYTOP (#679)	*	DQQ.

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"RaskinDoc062_F-19.PICT" 381 KB 2000-02-25 dpi: 500h x 500v pix: 2349h x 3711v

F. NUMERICAL INDEX [COUNTRY CODE AS SHOWN BELOW]

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G: NORWAY K: W-GERMANY
H: DENMARK L: SWITZERLAND N: U.K. O: SPAIN L: SWITZERLAND H: DENMARK P: ITALY D: QUEBEC

FIGURE						COUNTRY CODE
& KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	remarks !	ABCDEFGHIJKLMNOPQR
C-18	NY7-8012-000		1	KEYTOP (#680)	*	N
C-10	NY7-8013-000		1	KEYTOP (#681)	*	EFKLM.QP
C-15	NY7-8013-000	1	1	KEYTOP (#681)	*	EFKLM.OP
C-16	NY7-8013-000	İ	1	KEYTOP (#681)	*	EFKLM.OP
C-17	NY7-8013-000		1	KEYTOP (#681)	*	EFKLM.OP
C-19	NY7-8013-000	ŀ	1 1	KEYTOP (#681)	*	EFKLM.OP
C-20	NY7-8013-000		1	KEYTOP (#681)	*	EFKLM.OP
C-11	NY7-8014-000	ŀ	1 1	KEYTOP SHIFT	*	GHIJNQ
C-12 C-13	NY7-8014-000 NY7-8014-000	l	1 1	KEYTOP SHIFT KEYTOP SHIFT	*	GHIJNQ
C-14	NY7-8014-000		Ιί	KEYTOP SHIFT	*	GHIJNQ
C-18	NY7-8014-000		Ιi	KEYTOP SHIFT	*	GHIJN.Q
C-21	NY7-8014-000	l	Ιi	KEYTOP SHIFT	*	GHIJNQ
C-9	NY7-8015-000		li	KEYTOP (#682)	*	DEFKLM.OP
C-10	NY7-8015-000		Ιi	KEYTOP (#682)	*	DEFKLM.OP
C-15	NY7-8015-000		1	KEYTOP (#682)	*	DEFKLM.OP
C-16	NY7-8015-000		1	KEYTOP (#682)	*	DEFKLM.OP
C-17	NY7-8015-000		1	KEYTOP (#682)	*	DEFKLM.OP
C-19	NY7-8015-000		1	KEYTOP (#682)	*	DEFKLM.OP
C-20	NY7-8015-000		1	KEYTOP (#682)	*	DEFKLM.OP
C-8	NY7-8016-000	İ	1	KEYTOP PERM SPACE/TAB	*	ABCGHIJNQR
C-11	NY7-8016-000		1	KEYTOP PERM SPACE/TAB	*	ABCGHIJNQR
C-12 C-13	NY7-8016-000 NY7-8016-000			KEYTOP PERM SPACE/TAB KEYTOP PERM SPACE/TAB	*	ABCGHIJNQR
C-14	NY7-8016-000		Ιί	KEYTOP PERM SPACE/TAB	*	ABCGHIJNQR
C-18	NY7-8016-000		li	KEYTOP PERM SPACE/TAB	*	ABC. GHIJ. N. QR.
C-21	NY7-8016-000		Ιi	KEYTOP PERM SPACE/TAB	*	ABC. GHIJ. N. QR.
C-22	NY7-8016-000		Ιi	KEYTOP PERM SPACE/TAB	*	ABCGHIJNQR
C-9	NY7-8017-000		1	KEYTOP (#683)	*	DEFKLM.OP
C-10	NY7-8017-000		1	KEYTOP (#683)	*	DEFKLM.OP
C-15	NY7-8017-000	1	1	KEYTOP (#683)	*	DEFKLM.OP
C-16	NY7-8017-000	1	1	KEYTOP (#683)	*	DEFKLM.OP
C-17	NY7-8017-000	ļ	1	KEYTOP (#683)	*	DEFKLM.OP
C-19	NY7-8017-000	1	1 !	KEYTOP (#683)	*	DEFKLM.OP
C-20	NY7-8017-000		1	KEYTOP (#683)	*	DEFKLM.OP
C-8 C-11	NY7-8018-000 NY7-8018-000	l	1 1	KEYTOP ERASE KEYTOP ERASE	*	ABCGHIJNQR
C-12	NY7-8018-000		li	KEYTOP ERASE	*	ABCGHIJNQR
C-13	NY7-8018-000	1	Ιi	KEYTOP ERASE	*	ABCGHIJNQR
C-14	NY7-8018-000	1	Ιi	KEYTOP ERASE	*	ABCGHIJNQR
C-18	NY7-8018-000		l i	KEYTOP ERASE	*	ABCGHIJNQR
C-21	NY7-8018-000	1	i	KEYTOP ERASE	*	ABCGHIJNQR
C-22	NY7-8018-000		1	KEYTOP ERASE	*	ABCGHIJNQR
C-9	NY7-8019-000	1	1	KEYTOP (#684)	*	DEFKLM.OP
C-10	NY7-8019-000	1	1	KEYTOP (#684)	*	DEFKLM.OP
C-15	NY7-8019-000		1	KEYTOP (#684)	*	DEFKLM.OP
C-16	NY7-8019-000		1	KEYTOP (#684)	*	DEFKLM.OP
C-17	NY7-8019-000		1	KEYTOP (#684)	*	DEFKLM.OP
C-19	NY7-8019-000	1	1	KEYTOP (#684)	*	DEFKLM.OP
C-20 C-8	NY7-8019-000 NY7-8020-000		1 1	KEYTOP (#684) KEYTOP SHIFT	*	ABCGHIJNQR
C-11	NY7-8020-000	1	Ιi	KEYTOP SHIFT	*	ABC. GHIJ. N. QR.
C-12	NY7-8020-000	1	Ιi	KEYTOP SHIFT	*	ABC. GHIJ. N. QR.
C-13	NY7-8020-000	1	Ιi	KEYTOP SHIFT	*	ABCGHIJNQR
C-14	NY7-8020-000	1	Ιi	KEYTOP SHIFT	*	ABCGHIJNQR
L	1	<u> </u>	<u></u>	1	1	1

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B: ASIA C: OCEANIA D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE	DADT NUMBER	DANIV	מ'זץ	DECORPORTON	REMARKS	COUNTRY CODE
KEY NO.	PART NUMBER	rank	U IT	DESCRIPTION	NEMANNO	ABCDEFGHIJKLMNOPQR
C-1 R 57 C-1 R101 C-1 R102	VR1-1143-103 VR1-1143-103 VR1-1143-103		1 1 1	RESISTOR 10K OHM 1/4W RESISTOR 10K OHM 1/4W RESISTOR 10K OHM 1/4W		ADRRRRRR
C-1 R103 C-1 R104	VR1-1143-103 VR1-1143-103		1	RESISTOR 10K OHM 1/4W RESISTOR 10K OHM 1/4W		ADRRRRRR
C-1 R105 C-1 R 9	VR1-1143-103 VR1-1143-105		1	RESISTOR 10K OHM 1/4W RESISTOR 1M OHM 1/4W	*	ADRRABCDEFGHIJKLMNOPQR
C-1 R 45 C-1 R 46	VR1-1143-106 VR1-1143-106		1	RESISTOR 10M OHM 1/4W RESISTOR 10M OHM 1/4W	*	A. D
C-1 R 56 C-3 R 27	VR1-1143-200 VR1-1143-220		1 1 1	RESISTOR 20 OHM 1/4W RESISTOR 22 OHM 1/4W RESISTOR 220 OHM 1/4W	*	.BC.EFGHIJKLMNOPQ A
C-1 R106 C-3 R 25 C-3 R 6	VR1-1143-221 VR1-1143-223 VR1-1143-270			RESISTOR 22K OHM 1/4W RESISTOR 27 OHM 1/4W	*	A
C-3 R 24 C-3 R 14	VR1-1143-272 VR1-1143-330		1	RESISTOR 2.7K OHM 1/4W RESISTOR 33 OHM 1/4W	*	A
C-1 R 4 C-3 R 21	VR1-1143-331 VR1-1143-331		1 1	RESISTOR 330 OHM 1/4W RESISTOR 330 OHM 1/4W	*	.BC.EFGHIJKLMNOPQABC.EFGHIJKLMNOPQ
C-1 R 1 C-1 R 27 C-1 R 54	VR1-1143-332 VR1-1143-332 VR1-1143-332		1 1 1	RESISTOR 3.3K OHM 1/4W RESISTOR 3.3K OHM 1/4W RESISTOR 3.3K OHM 1/4W	*	ABCDEFGHIJKLMNOPQRABCDEFGHIJKLMNOPQR
C-1 R 55 C-1 R100	VR1-1143-332 VR1-1143-332		1	RESISTOR 3.3K OHM 1/4W RESISTOR 3.3K OHM 1/4W	*	ADRRRRRR
C-1 R 52 C-1 R 6	VR1-1143-335 VR1-1143-470			RESISTOR 3.3M OHM 1/4W RESISTOR 47 OHM 1/4W	*	ABCDEFGHIJKLMNOPQRBC.EFGHIJKLMNOPQ
C-3 R 22 C-1 R100 C-1 R102	VR1-1143-471 VR1-1143-472 VR1-1143-472		1 1	RESISTOR 470 OHM 1/4W RESISTOR 4.7K OHM 1/4W RESISTOR 4.7K OHM 1/4W	*	BC.EFGHIJKLMNOPQBC.EFGHIJKLMNOPQ
C-3 R 23 C-1 R 1	VR1-1143-472 VR1-1143-473		1 1	RESISTOR 4.7K OHM 1/4W RESISTOR 47K OHM 1/4W	*	AR
C-1 R 2 C-1 R 34 C-1 R 35	VR1-1143-473 VR1-1143-473 VR1-1143-473		1 1 1	RESISTOR 47K OHM 1/4W RESISTOR 47K OHM 1/4W RESISTOR 47K OHM 1/4W	* * *	ABCDEFGHIJKLMNOPQRRRRRRRR
C-1 R 53 C-3 R 19	VR1-1143-475 VR1-1143-560		1	RESISTOR 4.7M OHM 1/4W RESISTOR 56 OHM 1/4W	*	ABCDEFGHIJKLMNOPQR
C-3 R 18 C-3 R 13	VR1-1143-561 VR1-1143-569		1 1	RESISTOR 560 OHM 1/4W RESISTOR 5.6 OHM 1/4W	*	A
C-3 R 7 C-3 R 20 C-3 R 26	VR1-1143-680 VR1-1143-680 VR1-1143-683		1 1 1	RESISTOR 68 OHM 1/4W RESISTOR 68 OHM 1/4W RESISTOR 68K OHM 1/4W	* *	A
C-3 R 17 C-1 R 28	VR1-1143-829 VR5-0040-223			RESISTOR 8.2 OHM 1/4W METAL RESISTOR 22K OHM 1/4W	*	A
C-1 R 39 C-1 R 42	VR5-0040-223 VR5-0040-223		1 1	METAL RESISTOR 22K OHM 1/4W METAL RESISTOR 22K OHM 1/4W	*	ADRR
C-1 R 43 C-1 R 5 C-1 R 29	VR5-0040-223 VR5-0041-001 VR5-0041-102		1 1 1 1	METAL RESISTOR 22K OHM 1/4W METAL RESISTOR 1K OHM 1/4W METAL RESISTOR 11K OHM 1/4W	*	A. D
C-1 R 30 C-1 R 44	VR5-0041-102 VR5-0041-102		1 1	METAL RESISTOR 11K OHM 1/4W METAL RESISTOR 11K OHM 1/4W METAL RESISTOR 11K OHM 1/4W	*	A. D
C-1 R200 C-1 R 31	VR5-0041-102 VR5-0041-692		1 1	METAL RESISTOR 11K OHM 1/4W METAL RESISTOR 16.9K OHM 1/4W	*	ADRRR
C-1 R 32 C-1 R 51 C-1 R 4	VR5-0041-912 VR5-0042-802 VR5-0043-300		1 1	METAL RESISTOR 19.1K OHM 1/4W METAL RESISTOR 28K OHM 1/4W METAL RESISTOR 330 OHM 1/4W	*	A.DRRABCDEFGHIJKLMNOPQRA.DR
C-1 R 40	VR5-0043-322		i	METAL RESISTOR 33.2K OHM 1/4W		ADR

FIGURE	DART MINOSO		0174	05000000000		COUNTRY CODE
KEY NO.	PAKI NUMBEK	RANK	Q'IY	DESCRIPTION	REMARKS	ABCDEFGHIJKLMNOPQR
& KEY NO. C-1 R 33 C-1 R 201 C-1 R 36 C-1 R 36 C-1 R 36 C-1 R 36 C-1 R 3 1 C-1 R 3 2 C-1 R 3 3 C-1 R 3 4 C-1 R 3 5 C-1 R 3 6 C-1 R 3 7 C-1 R 3 6 C-1 R 3 7 C-1 R 3 8 C-1 R 3 7 C-1 R 3 7 C-1 R 3 8 C-1 R 3 7 C-1 R 3 8 C-1 R 3 7 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 9 C-1 R 3 1	PART NUMBER VR5-0043-402 VR5-0044-222 VR5-0044-750 VR5-0044-750 VR5-0040-102 VR5-0410-102 VR5-0410-102 VR5-0410-332 VR5-0410-332 VR5-0580-101 VR5-0580-101 VR5-0580-101 VR5-0580-101 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-221 VR5-0580-200 VS1-0706-020 VS1-0706-030 VS1-0706-030 VS1-0706-030 VS1-0706-030 VS1-0706-030 VS1-0706-030 VS1-0706-030 VS1-0068-000 WA1-0068-000	RANK	Q'TY 1	DESCRIPTION METAL RESISTOR 34K OHM 1/4W METAL RESISTOR 42.2K OHM 1/4W METAL RESISTOR 47 OHM 1/4W METAL RESISTOR 47 OHM 1/4W METAL RESISTOR 80.6K OHM 1/4W METAL RESISTOR 80.6K OHM 1/4W RESISTOR ARRAY 1K OHM 1/8WX7 RESISTOR ARRAY 1K OHM 1/8WX7 RESISTOR ARRAY 1K OHM 1/8WX7 RESISTOR ARRAY 3.3K OHM 1/8WX7 METAL RESISTOR 4.7K OHM 1/8WX4 RESISTOR ARRAY 100 OHM 1/8WX4 RESISTOR ARRAY 100 OHM 1/8WX4 RESISTOR ARRAY 100 OHM 1/8WX4 RESISTOR ARRAY 100 OHM 1/8WX4 RESISTOR ARRAY 220 OHM 1/8W X4 RESISTOR AR	***** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** **	ABCDEFGHIJKLMNOPQR A. D. R. A. D. R. A. D. R. A. D. R. A. D. R. A. D. R. ABCDEFGHIJKLMNOPQR ABCEEFGHIJKLMNOPQR ABCEEFGHIJKLMNOPQR ABCDEFGHIJKLMNOPQR ABCDEFGHIJKLMNOPQR ABCDEFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQR ADD. R. A. D. R. A. D. R. A. D. R. A. D. R. A. D. R. A. D. R. A. BCDEFGHIJKLMNOPQR ABCDEFGHIJKLMNOP
C-1 Q 3 C-1 Q 4 C-1 Q 1 C-1 Q 1 C-1 IC100 C-1 IC 44 C-1 IC 46	WA2-0796-000 WA2-0796-000 WA2-0876-000 WA2-0882-000 WA3-0137-000 WA3-0343-000 WA3-0343-000		1 1 1 1 1 1 1 1	TRANSISTOR RN1201 TRANSISTOR RN1201 TRANSISTOR RN2201 TRANSISTOR RN2206 TTL IC SN74LS74A TTL IC 74LS38N TTL IC 74LS38N	* *	A.DR. ABCDEFCHIJKLMNOPQRBC.EFCHIJKLMNOPQR. A.DR. BC.EFCHIJKLMNOPQBC.EFCHIJKLMNOPQBC.EFCHIJKLMNOPQ.
C-1 IC 12 C-1 IC 45 C-1 IC 10 C-1 IC 32	WA3-0434-000 WA3-0881-000 WA3-0894-000 WA3-0894-000		1 1 1	TTL 1C SN74128N TTL 1C H074LS14P TTL 1C H074LS05P TTL 1C H074LS05P	*	ABCDEFGHIJKLMNOPQRBC.EFGHIJKLMNOPQRABCDEFGHIJKLMNOPQABCDEFGHIJKLMNOPQRABCDEFGHIJKLMNOPQR.

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE ABCDEFGHIJKLMNOPQR
C-1 IC 33 C-1 IC 1 C-1 IC 22	WA3-1197-000 WA3-1847-000 WA3-3023-000		1 1 8	TTL IC HD74LS132P MOS LSI MC68000P8(CPU) MOS LSI MB81464-15 (RAM)	*	ABCDEFGHIJKLMNOPQRABCDEFGHIJKLMNOPQRR.
C-1 IC 29 C-1 IC 34 C-1 IC 11 C-1 IC 42 C-1 IC 43 C-1 IC 35 C-1 IC 36 C-1 IC 37 C-1 IC 37 C-1 IC 40 C-1 IC 39 C-1 IC 39 C-1 IC 39 C-1 IC 39 C-1 IC 39 C-1 IC 39 C-1 IC 39 C-1 IC 39 C-1 IC 39 C-1 IC 39 C-1 IC 39 C-1 IC 39	WA3-3048-000 WA3-3177-000 WA4-0320-000 WA4-0626-000 WA4-0722-000 WA4-0770-000 WA4-0771-000 WA4-0771-000 WA4-0808-000 WA8-038-000 WA8-038-000 WA8-0135-000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MOS LSI MC68681(DUART) MOS LSI UPD4364C-15LL (RAM) IC UPC7905H IC MB3771-M IC UA1488PC IC UA1489APC MOS LSI S35212A MOS LSI S35213 MOS LSI S35213 IC MPC 4558C VARISTOR VR-61SS VARISTOR SNR-14P470K SURGE ABSORBER RAV-361LD VARISTOR MFC 125AX333M	* * * * * * * * *	ABCDEFGHIJKLMNOPQR. ABCDEF
C-1 C 12 C-1 C 14 C-1 C 15 C-1 C 19 C-1 C 20 C-1 C 21 C-1 C 23 C-1 C 24 C-1 C 25 C-1 C 27 C-1 C 28 C-1 C 29 C-1 C 31	WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000 WA8-0135-000		1 1 1 1 1 1 1 1 1 7	VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M		A. D. R. R. A. D. R. R. A. D. R. R. A. D. R. R. A. D. R. R. A. D. R. R. A. D. R. R. A. D. R. R. R. A. D. R. R. R. A. D. R. R. R. A. D. R. R. R. A. D. R. R. R. R. R. R. R. R. R. R. R. R. R.
C-1 C 37 C-1 C 41 S C-1 C 50	WA8-0135-000		10	VARISTOR MFC 125AX333M		ADR
C-1 C 60 C-1 C 62	WA8-0135-000 WA8-0135-000		1 6	VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M		ADRR
C-1 C 67 C-1 C 81 C-1 C 91 C-1 C107 C-1 C108 C-1 IC 2 C-1 IC 3 C-1 IC 4 C-1 IC 5 C-1 IC 6 C-1 IC 7 C-1 IC 8 C-1 IC 9 C-1 IC 14	WA8-0135-000 WA8-0135-000 WA8-0135-000 WA9-0058-000 WA9-0058-000 WA9-0058-000 WA9-0058-000 WA9-0058-000 WA9-0058-000 WA9-0058-000 WA9-0058-000 WA9-0058-000 WA9-0068-000		1 1 1 1 1 1 1	VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M VARISTOR MFC 125AX333M IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN IC SOCKET 28PIN	* * * * * *	A.D. R. A.D. R. A.D. R. A.D. R. A.D. R. ABCDEFGHIJKLMNOPQR. A.D. R. ABCDEFGHIJKLMNOPQR. A.D. R. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ.

F-23

"RaskinDoc062_F-23.PICT" 392 KB 2000-02-25 dpi: 500h x 500v pix: 2328h x 3710v

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D: QUEBEC H: DENMARK L: SWITZERLAND P: ITALY

FIGURE &	PART NUMBER	rank	Q'TY	DESCRIPTION	REMARKS	COUNTRY CODE
KEY NO.						ABCDEFGHIJKLMNOPQR
C-1 IC 15 C-1 IC 16 C-1 IC 17 C-1 IC 18 C-1 IC 19 C-1 IC 20 C-1 IC 21 C-1 K 1 C-1 K 2 C-1 SW 1 C-1 SW 2 C-1 I L 1 C-1 L 2 C-1 L 3 C-1 L 4 C-1 FB 1	WA9-0067-000 WA9-0067-000 WA9-0067-000 WA9-0067-000 WA9-0067-000 WA9-0067-000 WB1-0135-000 WB1-0135-000 WB1-0135-000 WB1-028-000 WE2-0068-000 WE2-0068-000 WE2-0068-000 WE2-0068-000 WE2-0068-000 WE2-0068-000		1 1 1 1 1 1 1 1 1 1 1 23	IC SOCKET 8P IC SOCKET 8P IC SOCKET 8P IC SOCKET 8P IC SOCKET 8P IC SOCKET 8P IC SOCKET 8P IC SOCKET 8P IC SOCKET 8P IC SOCKET 8P RELAY 66E-134P-US SLIDE SWITCH PUSH SWITCH, SPJ312TE1S POWER TRANSFORMER CHOKE COIL 1UH CHOKE COIL 1UH CHOKE COIL 1UH CHOKE COIL 1UH DATA LINE FILTER	* *	BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQ. BC.EFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. A.D. A.D. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. ABCDEFGHIJKLMNOPQR. BC.EFGHIJKLMNOPQR. BC.EFGHIJKLMNOPQR. BC.EFGHIJKLMNOPQR. BC.EFGHIJKLMNOPQR. BC.EFGHIJKLMNOPQR. BC.EFGHIJKLMNOPQR.
C-1 FB 23 C-1 FB 25 C-1 FB 26 C-1 FB 1	WE8-0012-000 WE8-0012-000 WE8-0060-000		1 1 15	DATA LINE FILTER DATA LINE FILTER FERRITE BEAD		.BC.EFGHIJKLMNOPQ .BC.EFGHIJKLMNOPQ ADR
C-1 FB 15 C-1 FB 17	WE8-0060-000		8	FERRITE BEAD		ADR
C-1 FB 25 C-1 L 2 C-1 L 3 C-1 L 5 C-1 LC 1 C-1 LC 2 C-1 LC 3 C-1 LC 3 C-1 LC 3 C-1 X 4 C-1 X 1 C-1 X 2 C-1 X 3 C-1 BZ C-1 BZ C-1 BZ C-1 CN 7 B 18 B 18 B 18 C-3 Q 1 C-6 22 C-6 22 C-6 22 C-6 21 C-6 19	WE8-0060-000 WE8-0060-000 WE8-0060-000 WE8-0060-000 WE8-0060-000 WE8-0060-000 WE8-0060-000 WK1-0013-000 WK2-0358-000 WK2-0359-000 WK2-0359-000 WK2-0359-000 WK3-0025-000 WT3-0025-000 WT3-0025-000 WT3-0028-000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 4 1 1 6	FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD FERRITE BEAD RING DETECTOR PC733H LITHIUM BATTERY CR-2032 CRYSTAL OSC. 3579.545KHZ CRYSTAL OSCILLATOR 19.968MHZ CRYSTAL OSCILLATOR 2.4576MHZ BUZZER PKM24-4AO BUZZER, CB 20PA CONNECTOR 6PIN (MODULAR JACK) CONNECTOR 6PIN (MODULAR JACK) POWER SUPPLY CORD 120V POWER SUPPLY CORD 230V POWER SUPPLY CORD 230V POWER SUPPLY CORD 240V POWER SUPPLY CORD 240V POWER SUPPLY CORD 240V TRANSISTOR 2SC1213A SCREW, PH MZX2 SCREW, PH MZX5X3.5 SCREW, PH MZ.5X3.5 SCREW, PH MZ.5X8 SCREW, PH MZ.5X8 SCREW, PH MZ.5X8 SCREW, PH MZ.5X8	* * * * * * * * * * * * * * * * * * * *	A.D. R. A.D. R

