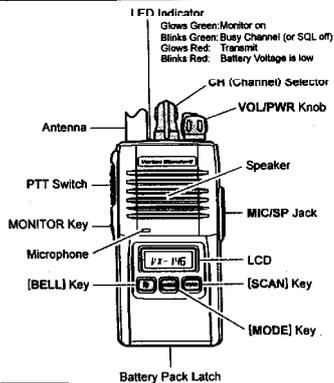




**UHF FM TRANSCEIVER  
VX-146  
Operating Manual**

**CONTROLS & CONNECTORS**



- ENGLISH
- ESPAÑOL
- FRANÇAIS
- DEUTSCH
- ITALIANO

AUT	BEL	DNK	FIN
FRA	DEU	GRC	ISL
FRS	ITA	LEJ	LUX
NLD	NOR	PRY	ESP
SWE	CHE	GBR	

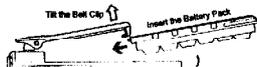
**IMPORTANT NOTICE!**

- Please read this manual carefully to become familiar with the features of this transceiver.
- Do not hold the transceiver so that the antenna is very close to (or touching exposed parts of) the body, especially the face of eyes, while transmitting. The transceiver will perform best if the microphone is 3 to 5 cm away from the mouth and the transceiver is vertical.
- Do not place the transceiver in excessively dusty, humid, or wet areas, nor on unstable surfaces.
- Refer service of this apparatus to qualified technicians only.

0212c-BE

**BATTERY PACK INSTALLATION AND REMOVAL**

- When using the FNB-64 Ni-Cd Battery Pack**
- To install the battery, hold the transceiver with your hand, so your palm is over the speaker and your thumb is on the top of the Belt Clip. Insert the battery pack into the battery compartment on the back of the radio while tilting the Belt Clip outward, then close the Battery Pack Latch until it clicks in place with a "click."



**BASIC OPERATION**

- Preliminary Steps**
- Install a charged battery pack onto the transceiver, as described previously.
  - If you have a Speaker/Microphone, we recommend that it not be connected until you are familiar with the basic operation of the VX-146.

- Operation Quick Start**
- To turn the top panel's VOL/PWR knob clockwise to turn on the radio on.
  - Turn the top panel's CH selector knob to choose the desired operating channel.
  - Rotate the VOL/PWR knob to set the volume level. If no signal is present, press and hold the MONITOR key (the lower button on the left side) more than one second; background noise will now be heard, and you may use this to set the VOL/PWR knob for the desired audio level.
  - Press and hold the MONITOR key more than one second (or press the MONITOR key twice) to quiet the noise and resume normal (quiet) monitoring.
  - To transmit, press and hold the PTT switch. Speak into the microphone area of the front panel grille (upper left-hand corner of the display) in a normal voice level. To return to the Receive mode, release the PTT switch.
  - If a Speaker/Microphone is available, remove the plastic cap and its two mounting screws from the right side of the transceiver, then insert the plug from the Speaker/Microphone into the MIC/SP jack; secure the plug using the two screws supplied with the Speaker/Microphone. Point the speaker grille up next to your ear while receiving. To transmit, press the PTT switch on the Speaker/Microphone, just as you would on the main transceiver's body.

*Note:* Save the original plastic cap and its mounting screws. They should be re-installed when not using the Speaker/Microphone.

- Keypad Locking**
- The VX-146's keypad may be locked out to prevent accidental changing of its setting.
- Press and hold the (BELL) key for one second to lock the keypad.
  - In the LOCK mode, the display will show "LOCK" when you touch a key on the keypad.
  - To turn the lock feature off, press and hold the (BELL) key for one second.

**ADVANCED OPERATION**

- Scanning**
- The Scanning feature is used to monitor multiple channels programmed into the transceiver. While scanning, the transceiver will check each channel for the presence of a signal, and will stop on a channel if a signal is present.

- To activate scanning:
  - Press the (SCAN) key momentarily.
  - The scanner will search the channels according to the scan mode ("Normal Scan" or "Follow-ME Scan"; determined via the MENU mode), looking for active ones; it will pause each time it finds a channel on which someone is speaking.
  - To stop scanning:
    - Press the (SCAN) key momentarily.

- How to Skip(Omit) a Channel during Scan Operation**
- When you have some very active channels, you may wish to skip them when scanning, but still have them available for manual selection.
- Rotate the CH knob to select the channel to be skipped during scanning.
  - Press and hold the (SCAN) key for one second. A small "SKIP" indicator will appear to the display, indicating it is to be ignored during scanning.
  - To re-institute the channel into the scanning loop, repeat the above two steps. Remember that the "Skipped" channel will always be accessible via manual channel selection methods using the CH knob; the above procedure only removes a channel from the scanning loop.

- CTCSS Operation**
- "CTCSS" is a selective calling system which uses a continuous, very-low-frequency tone that is filtered out so as not heard. If many stations are using the same channel frequency, CTCSS will keep your radio's receiver squelched until a CTCSS tone received matching the CTCSS tone you have selected for your radio. If CTCSS is turned off, any signal received can open your radio's squelch.
- Rotate the CH knob to select a channel for CTCSS operation.
  - Press the (MODE) key twice, then press the (BELL) or (SCAN) key so that the "CTCSS" appears on the display; this activates the CTCSS.
  - Press the (MODE) key momentarily, then select the desired CTCSS Tone number by pressing the (BELL) or (SCAN) key.
  - Press the (MODE) key momentarily to save the new settings and activate the CTCSS.
  - Press the MONITOR key momentarily to disable the CTCSS temporarily to listen to the (muted) signal from the other station. Press the MONITOR key again to activate the CTCSS.
  - To disable the CTCSS operation, press the (MODE) key twice then press the (BELL) or (SCAN) key so that the "CH" appears on the display; and press the

**ARTS Operation**

- "ARTS" is a transponder feature, available when DCS is engaged, which will alert two ARTS-equipped radios when an "Out of Range" condition exists. The stations can then move to a better location to re-establish communications.
- Rotate the CH knob to select a channel for ARTS operation.
  - Press the (MODE) key twice, then press the (BELL) or (SCAN) key so that the "ARTS" appears on the display; this activates the ARTS.
  - Press the (MODE) key momentarily, then select the desired EX-5 Code number by pressing the (BELL) or (SCAN) key.
  - Press the (MODE) key momentarily to save the new settings and activate the ARTS.
  - Every 55 seconds, your radio will transmit a "polling" call to the other station. When that station responds with its own ARTS polling signal, the display will change to "RANGE" to confirm that the other station's polling code was received in response to yours.
  - To exit ARTS operation and resume normal functioning of the transceiver, press the (MODE) key twice, then press the (BELL) or (SCAN) key so that the "OFF" appears on the display, and press the (MODE) key.

**Channel Programming**

- You may change the operating frequency (from among the eight available channel frequency) of the channel selected by the CH knob. This function may be useful if you wish to change the order in which the Frequencies are selected by the CH knob.
- Rotate the CH knob to select the channel on which you wish change the operating frequency.
  - Press the (MODE) key momentarily, then select the desired Channel by pressing the (BELL) or (SCAN) key.
  - Press the (MODE) key twice to save the new settings.

**MENU MODE**

The MENU Mode allows certain aspects of your radio's configuration to be customized for your personal operating convenience. We do not recommend that any of the default settings be changed, however, until you are thoroughly familiar with the operation of the VX-146.

- Press and hold in the (MODE) key while turning the transceiver on to activate the MENU mode.
- Press the (BELL) or (SCAN) key to select the MENU mode you wish to view and/or modify.
- Once you have selected the desired MENU mode item, press the (MODE) key momentarily to modify the setting for the item.
- Press the (BELL) or (SCAN) key to change the setting of the item (ON to OFF, etc.).
- Press the (MODE) key momentarily to save your new setting (Press the MONITOR key to cancel the setting).
- If you need to change more than one MENU mode item, repeat steps 2 - 5.
- Press the PTT switch to exit the MENU mode.

**LAMP**

Function: LCD Illumination mode  
Available Values: ON/OFF  
Default Setting: ON  
SQ: The lamp will be activated for 8 seconds when the any key on the keypad is pressed.  
OFF: Disable the illumination lamp.

**MONI**

Function: Define the accessory pin of the MIC/SP jack of the radio.  
Available Values: NOR/EXT (Default Setting: NOR)  
When the radio use with the optional MH-484a Speaker/Microphone, this item set to "NOR." When the radio use with the optional VC-28 VOX Headset, this item set to "EXT."

**MSG**

Function: Programming an Alpha/Numeric label for the opening message.  
To programming an Alpha/Numeric label:

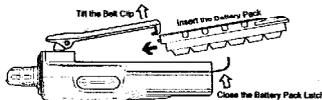
- Select this Menu Item.
- Press the (MODE) key to enable modifying the label.
- Press the (MONITOR) key again, to begin monitoring or (press again) or one letter.
- Press the (BELL) or (SCAN) key to select the first digit of the desired label. When you have made your selection, press the (MODE) key momentarily to move the next character.
- Repeat the previous step to program the remaining letters, numbers, or symbols on the desired label. A total of eight characters may be used in the creation of the label.
- When you have completed the creation of the label, press the (MODE) key momentarily to save the label.

**SQL**

Function: Squelch Level Setting

**BATTERY PACK INSTALLATION AND REMOVAL****When using the FNB-84 Ni-Cd Battery Pack**

- To install the battery, hold the transceiver with your hand, so your palm is over the speaker and your thumb is on the top of the Belt Clip. Insert the battery pack into the battery compartment on the back of the radio while tilting the Belt Clip outward, then close the Battery Pack Latch until it locks in place with a "Click."



- To remove the battery, turn the radio off and remove any protective cases. Open the Battery Pack latch on the bottom of the radio, then slide the battery downward and out from the radio while unfolding the Belt Clip.

**Caution:** Do not attempt to open any of the rechargeable Ni-Cd packs, as they could explode if accidentally short-circuited.

**Low Battery Indication**

- As the battery discharges during use, the voltage gradually becomes lower. When the battery voltage reaches 6.7 volts, substitute a freshly charged battery and recharge the depleted pack. The **TX/BUSY** indicator on the top of the radio will blink red when the battery voltage is low.
- Avoid rechargeable Ni-Cd batteries often with little use between charges, as this can degrade the charge capacity. We recommend that you carry an extra, fully-charged pack with you so the operational battery may be used until depletion (this "deep cycling" technique promotes better long-term battery capacity).

**Battery Charging**

- Install the supplied **FNB-84** Ni-Cd battery pack onto the transceiver. Ensure that the transceiver is switched off.
- Plug the **NC-77** into the AC line outlet.
- Insert the battery pack into the **NC-77**; the antenna jack should be at the left side when viewing the charger from the front.
- If the battery pack is inserted correctly, the **RED** indicator will glow. A fully-discharged pack will be charged completely in 15 hours.

**When using the FBA-23 Battery Case**

The **FBA-23** Battery Case allows operation of the **VX-140** using six AA-size Alkaline batteries. When installing batteries, insert the (-) end first, then press in the (+) end so the battery snaps into place. Always replace six batteries at the same time. To install the Battery Case into the transceiver, it is same manner as the Ni-Cd Battery Pack, described previously.

**Note:** The **FBA-23** must not be used with rechargeable cells.

**MICROPROCESSOR RESETTING**

- All transceiver settings can be reset to their factory-default states using the following power-on routine.
- Turn the transceiver off.
  - Press and hold the **[BELL]**, **[SCAN]**, and **MONITOR** key while turning the radio on. A "ROM CLR" will appear on the display.
  - Press the **PTT** switch to reset the transceiver (Press the **MONITOR** key to cancel the resetting).

**CTCSS Operation**

"CTCSS" is a selective calling system which uses a continuous, very-low-frequency tone that is filtered out so as not heard. If many stations are using the same channel frequency, CTCSS will keep your radio's receiver squelched until a CTCSS tone received matching the CTCSS tone you have selected for your radio. If CTCSS is turned off, any signal received can open your radio's squelch.

- Rotate the **CH** knob to select a channel for CTCSS operation.
- Press the **[MODE]** key twice, then press the **[BELL]** or **[SCAN]** key so that the "CTCS" appears on the display; this activates the CTCSS.
- Press the **[MODE]** key momentarily, then select the desired CTCSS Tone number by pressing the **[BELL]** or **[SCAN]** key.
- Press the **[MODE]** key momentarily to save the new settings and activate the CTCSS.
- Press the **MONITOR** key momentarily to disable the CTCSS temporarily to listen to the (muted) signal from the other station. Press the **MONITOR** key again to activate the CTCSS.
- To disable the CTCSS operation, press the **[MODE]** key twice, then press the **[BELL]** or **[SCAN]** key so that the "OFF" appears on the display, and press the **[MODE]** key again.

**DCS Operation**

"DCS" is similar in use to CTCSS, except DCS uses the digital codes for more reliable operation.

- Rotate the **CH** knob to select a channel for DCS operation.
- Press the **[MODE]** key twice, then press the **[BELL]** or **[SCAN]** key so that the "DCS" appears on the display; this activates the DCS.
- Press the **[MODE]** key momentarily, then select the desired DCS Code number by pressing the **[BELL]** or **[SCAN]** key.
- Press the **[MODE]** key momentarily to save the new settings and activate the DCS.
- Press the **MONITOR** key momentarily to disable the DCS temporarily to listen to the (muted) signal from the other station. Press the **MONITOR** key again to activate the DCS.
- To disable the DCS operation, press the **[MODE]** key twice, then press the **[BELL]** or **[SCAN]** key so that the "OFF" appears on the display, and press the **[MODE]** key again.

**BELL Operation**

During CTCSS or DCS operation, you may set the transceiver up such that a "CALLED" appears on the display you to the fact that a call is coming in.

- Set the transceiver up for CTCSS or DCS operation, as described previously.
- Press the **[BELL]** key momentarily to activate the BELL feature ("BELL ON" will appear on the display).
- When a station calls you whose transceiver is sending a CTCSS tone or DCS code which matches that set into your radio, the "CALLED" will appear on the display.
- To disable the BELL operation, press the **[BELL]** key momentarily ("BELL OFF" will appear on the display).

**Bell Ringer Operation**

If you activate the bell ringer in the MENU mode, a ringing "bell" sound alerts you to the fact that a call is coming in. Here is the procedure for activating the bell ringer.

- Press and hold in the **[MODE]** key while turning the transceiver on to activate the MENU mode.
- Press the **[BELL]** or **[SCAN]** key to select the MENU item ("C\_BP").
- Press the **[MODE]** key momentarily to enable adjustment of the bell ringer.
- Press the **[BELL]** or **[SCAN]** key to set the desired number of rings of the bell. The available choices are 1, 3, 5 rings or OFF.
- Press the **[MODE]** key momentarily to save your new setting, then press the **PTT** switch to exit the MENU mode.
- When a station calls you whose transceiver is sending a CTCSS tone or DCS code which matches that set into your radio, the bell will ring in accordance to this reprogramming.

to "EX1.

**TAG**

Function: Programming an Alpha/Numeric label for the opening message. To programming an Alpha/Numeric label:

- Select this Menu Item.
- Press the **[MODE]** key to enable modifying the label.
- Press the **[MODE]** key again, to begin modifying of first digit of the label.
- Press the **[BELL]** or **[SCAN]** key to select the first digit of the label. When you have made your selection, press the **[MODE]** key momentarily to save the character.
- Repeat the previous step to program the remaining letters, numbers, or of the desired label. A total of eight characters may be used in the label.
- When you have completed the creation of the label, press the **[MODE]** key momentarily to save the label.

Default Setting: SELFTEST

**SQ**

Function: Squelch Level Setting

Available Values: 0-12 (Default Setting: 4)

Select a setting for this Menu Item which just silences the receiver when is present. Use the lowest setting, which will keep the receiver quiet between transmissions.

**M\_DB**

Function: Microphone Input Sensitivity Setting

Available Values: -6/0/+6 dB (Default Setting: 0 dB)

**C\_BP**

Function: Select the BELL ringer repetitions

Available Values: 1/3/5/OFF (Default Setting: 3)

**S\_RT**

Function: Set the delay time for scanning resumption

Available Values: 2S/3S/4S/5S (Default Setting: 2S)

**S\_MD**

Function: Select the Scan mode

Available Values: NOR/FM (Default Setting: NOR)

**NOR:** Activate the Normal Scan. The Normal Scan feature is used to scan multiple channels of the radio.

**FM:** Activate the Follow-the-Scan. The Follow-the-Scan feature can assign Priority Channel (determined via the **CH** knob) regular scan the other channels.

**SAVE**

Function: Enable/disable the Battery Saver

Available Values: ON/OFF (Default Setting: ON)

**BEEP**

Function: Keypad Beeper On/Off

Available Values: ON/OFF (Default Setting: ON)

**TOT**

Function: Set the Time-Out Timer Time

Available Values: OFF/30/60/90/120/150/180/210/240 (sec)

Default Setting: 60 (sec)

The TOT feature provides a safety switch, which limits transmission to a set value. This will promote battery conservation by not allowing you to transmit long transmissions.

**BCLO**

Function: Enable/disable the (BCLO) Busy Channel Lock-out feature

Available Values: ON/OFF (Default Setting: OFF)

The BCLO feature prevents the radio's transmitter from being activated strong enough to break through the "Noise" squelch is present. On channels where stations using different CTCSS or DCS codes may be active, BCLO (from disrupting their communications accidentally (because your radio is muted by its own Tone Decoder).

VX-146 DEFAULT SETTING  
VALORES DE ORIGEN DEL VX-146  
VX-146 DEFAULT  
STANDARD WERT  
VX-146 DEFAULT SETTING

Channel	Freq. No. (Frequency)	CTCSS/DCS
1	1 ch (448.00625 MHz)	DCS-017 (114)
2	2 ch (448.01875 MHz)	DCS-018 (115)
3	3 ch (448.03125 MHz)	DCS-001 (023)
4	4 ch (448.04375 MHz)	DCS-002 (025)
5	5 ch (448.05625 MHz)	DCS-003 (026)
6	6 ch (448.06875 MHz)	DCS-013 (071)
7	7 ch (448.08125 MHz)	DCS-014 (072)
8	8 ch (448.09375 MHz)	DCS-015 (073)
9	1 ch (448.00625 MHz)	DCS-027 (152)
10	2 ch (448.01875 MHz)	DCS-028 (153)
11	3 ch (448.03125 MHz)	DCS-029 (150)
12	4 ch (448.04375 MHz)	DCS-030 (162)
13	5 ch (448.05625 MHz)	DCS-031 (165)
14	6 ch (448.06875 MHz)	DCS-034 (205)
15	7 ch (448.08125 MHz)	DCS-035 (212)
16	8 ch (448.09375 MHz)	DCS-038 (233)

FREQUENCY NUMBER  
N° DE FRECUENCIA  
NUMÉRO DE FRÉQUENCE  
FREQUENCY-NUMBER  
FREQUENCY-NUMBER

Number	Frequency
1	448.00625 MHz
2	448.01875 MHz
3	448.03125 MHz
4	448.04375 MHz
5	448.05625 MHz
6	448.06875 MHz
7	448.08125 MHz
8	448.09375 MHz

CTCSS TONE NUMBER  
NÚMEROS DE SEÑALIZACIÓN CTCSS  
NUMÉRO D'IDENTIFICATION DES TONS CTCSS

Tone No.	Frequency						
01	87.0 Hz	11	97.4 Hz	21	136.5 Hz	31	172.8 Hz
02	71.9 Hz	12	100.0 Hz	22	141.3 Hz	32	203.5 Hz
03	74.4 Hz	13	103.5 Hz	23	145.2 Hz	33	210.7 Hz
04	77.0 Hz	14	107.2 Hz	24	151.4 Hz	34	218.1 Hz
05	79.7 Hz	15	110.9 Hz	25	158.7 Hz	35	225.7 Hz
06	82.5 Hz	16	114.8 Hz	26	162.2 Hz	36	233.6 Hz
07	85.4 Hz	17	118.8 Hz	27	167.9 Hz	37	241.8 Hz
08	88.5 Hz	18	123.0 Hz	28	173.8 Hz	38	250.3 Hz
09	91.5 Hz	19	127.3 Hz	29	179.9 Hz	39	259.1 Hz
10	94.8 Hz	20	131.8 Hz	30	186.2 Hz	40	Off

DCS SIGNALING NUMBER  
NÚMEROS DE SEÑALIZACIÓN DCS  
NUMÉRO D'IDENTIFICATION DES CODES DCS

| DCS Code No. |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 001          | 023          | 019          | 118          | 027          | 225          | 028          | 325          | 029          | 452          | 029          | 527          |
| 002          | 025          | 020          | 122          | 038          | 228          | 036          | 331          | 024          | 454          | 050          | 531          |
| 003          | 026          | 021          | 125          | 039          | 243          | 057          | 332          | 070          | 455          | 050          | 532          |
| 004          | 031          | 022          | 131          | 040          | 244          | 053          | 343          | 076          | 456          | 051          | 534          |
| 005          | 032          | 023          | 132          | 041          | 245          | 050          | 348          | 077          | 457          | 052          | 535          |
| 006          | 036          | 024          | 134          | 042          | 246          | 090          | 351          | 075          | 465          | 056          | 564          |
| 007          | 043          | 025          | 143          | 043          | 251          | 061          | 350          | 073          | 466          | 057          | 565          |
| 008          | 047          | 026          | 145          | 044          | 252          | 062          | 364          | 080          | 467          | 055          | 566          |
| 009          | 051          | 027          | 152          | 045          | 255          | 063          | 365          | 081          | 468          | 059          | 573          |
| 010          | 053          | 028          | 155          | 046          | 261          | 064          | 371          | 062          | 510          | 040          | 731          |
| 011          | 061          | 029          | 163          | 047          | 263          | 068          | 411          | 065          | 563          | 039          | 733          |
| 012          | 065          | 030          | 162          | 048          | 265          | 066          | 421          | 064          | 528          | 040          | 734          |
| 013          | 071          | 031          | 165          | 049          | 266          | 067          | 413          | 065          | 532          | 040          | 743          |
| 014          | 072          | 032          | 172          | 050          | 271          | 068          | 423          | 066          | 546          | 041          | 754          |
| 015          | 073          | 033          | 174          | 051          | 274          | 069          | 431          | 067          | 565          | 040          | 754          |
| 019          | 074          | 034          | 205          | 052          | 306          | 070          | 432          | 068          | 606          | 040          | 754          |
| 017          | 115          | 035          | 212          | 053          | 311          | 071          | 433          | 069          | 612          | 040          | 754          |
| 018          | 115          | 036          | 223          | 054          | 315          | 072          | 446          | 070          | 624          | 040          | 754          |

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Declaration of Conformity  
N.YE.DOC-2204-026

We, the undersigned,

Company: VerTEX Standard B.V.  
Address: 1118 ZN Schiphol  
Country: The Netherlands  
Phone number: (+31) 20 500 52 70  
Fax number: (+31) 20 500 52 78

certify and declare under our sole responsibility that the following equipment

Type of Equipment: Part two transceiver  
Brand Name: VERTEX STANDARD  
Model Number: VS-146  
Manufacturer: VerTex Standard Co., Ltd.  
Address of Manufacturer: 4-3-3 Nakameguro Meguro-Ku, Tokyo 153-8644, Japan  
EU/EEA member states intended for use: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, The Netherlands, Norway, Sweden, United Kingdom, Iceland, Liechtenstein, Switzerland

Member states with restrictive use: Norway

is tested to and conforms to the essential requirements for protection of health and the safety of the user and any other person and Electromagnetic Compatibility, as included in following standards:

Applicable Standard: EMC Standard: ETS 300 275 (1987)  
Safety Standard: EN 50065 (1993)  
Radio Standard: ETS 300 298 (1994)

and therefore complies with the essential requirements and provisions of the Directive 1999/5/EC of the European Parliament and of the Council of March 9, 1999 on Radio equipment and Telecommunication Terminal Equipment and the mutual recognition of their conformity and with the provisions of Annex IV (Conformity Assessment procedure referred to in Article 10)

The following Notified Bodies have been consulted in the Conformity Assessment procedure:

Name of Notified Body: TNO Certificates B.V.  
Address: PO Box 15, 9022 ZG Nieuwerkerk, The Netherlands  
Notified Body number: 0338

The technical documentation as required by the Conformity Assessment procedure is kept at the following address:

Company: Yaesu Europe B.V.  
Address: 1118 ZN Schiphol, The Netherlands  
Technical Construction File: Issued by VerTex Standard Co., Ltd., Tokyo, Japan  
File No. C0403197-1 (P) February, 2002

Drawn up in: Schiphol, The Netherlands

Date: 22 Feb. 2002

Name and position: C. A. Yaesu, Manager