

HERBERT

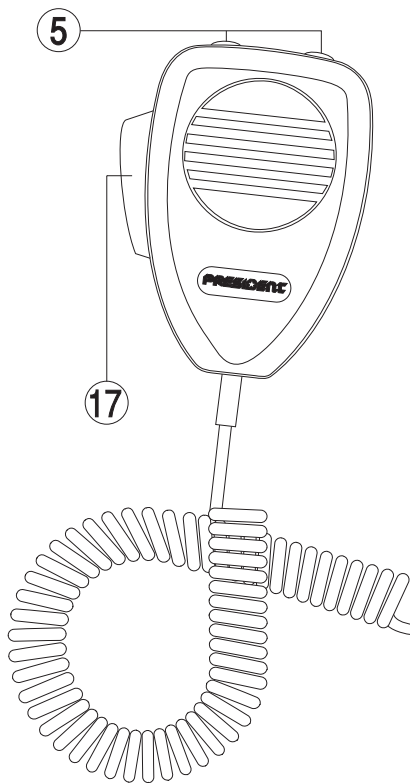
ASQ Automatic
Squelch
Control



Manuel d'utilisation / Manual del usuario
Owner's manual / Handbuch

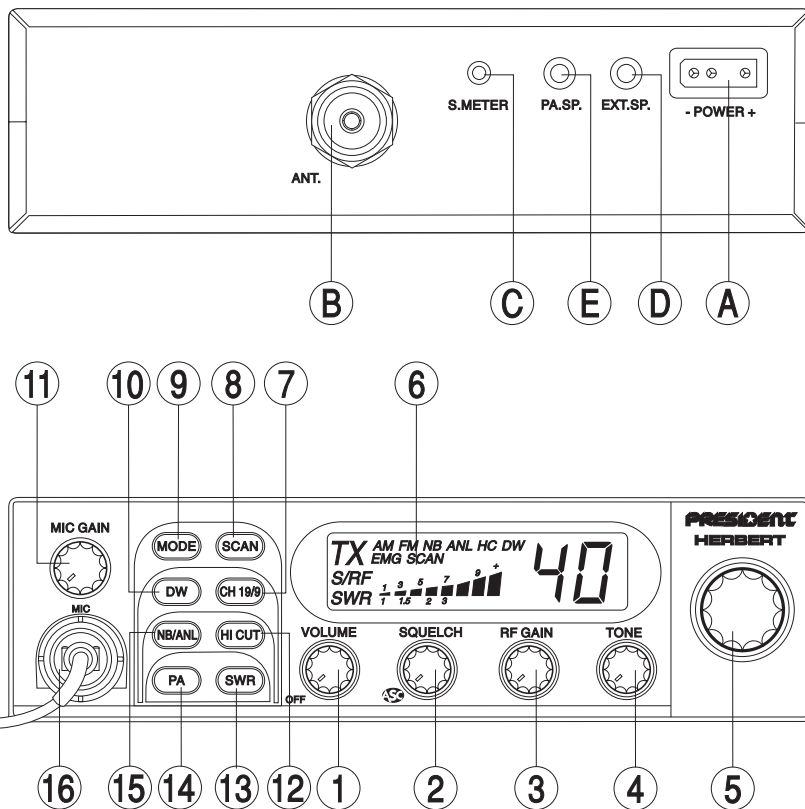
PRESIDENT

Votre PRESIDENT HERBERT ASC en un coup d'oeil



Your PRESIDENT HERBERT ASC at a glance

Un vistazo a vuestro PRESIDENT HERBERT ASC



Ihr PRESIDENT HERBERT ASC auf einen Blick

WARNING !

Before using, be careful never to transmit without first having connected the antenna (connection "B" situated on the back panel of the equipment) or without having set the SWR (Standing Wave Ratio) ! Failure to do so may result in destruction of the power amplifier, which is not covered by the guarantee.

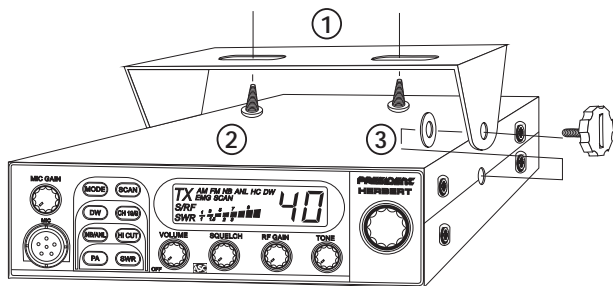
The guarantee of this transceiver is valid only in the country of purchase .

Welcome to the world of the new generation of CB radios. The new PRESIDENT range gives you access to top performance CB equipment. With the use of up-to-date technology, which guarantees unprecedented quality, your PRESIDENT HERBERT ASC is a new step in personal communication and is the surest choice for the most demanding of professional CB radio users. To ensure that you make the most of all its capacities, we advise you to read carefully this manual before installing and using your PRESIDENT HERBERT ASC.

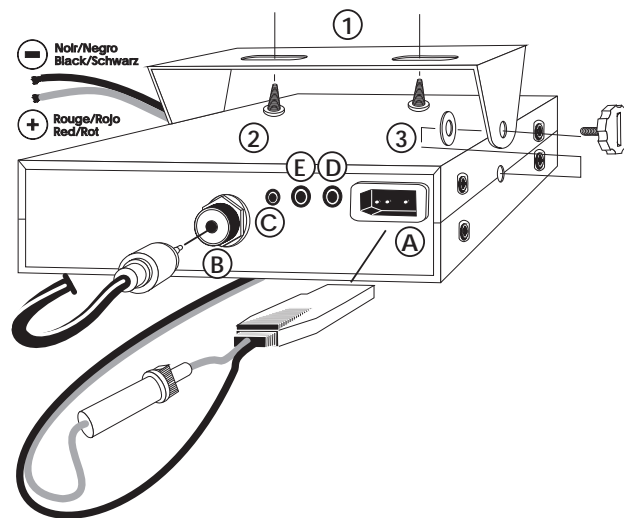
A) INSTALLATION:

1) WHERE AND HOW TO MOUNT YOUR MOBILE CB RADIO:

a) You should choose the most appropriate setting from a simple and practical point of view.



MOUNTING DIAGRAM



- b) Your CB radio should not interfere with the driver or the passengers.
- c) Remember to provide for the passing and protection of different wires (e.g. power, antenna, accessory cabling) so that they do not in any way interfere with the driving of the vehicle.
- d) To install your equipment, use the cradle (1) and the self-tapping screws [2] provided (drilling diameter 3.2 mm). Take care not to damage the vehicle's electrical system while drilling the dash board.
- e) Do not forget to insert the rubber joints [3] between the CB and its support as these have a shock-absorbing effect which permits gentle orientation and tightening of the set.
- f) Choose where to place the microphone support and remember that the microphone cord must stretch to the driver without interfering with the controls of the vehicle.
- **N.B. :** As the transceiver has a frontal microphone socket, it can be set into the dash board. In this case, you will need to add an external loud speaker to improve the sound quality of communications (connector EXT.SP situated on the back panel: D). Ask your dealer for advice on mounting your CB radio.

2) ANTENNA INSTALLATION:

a) Choosing your antenna:

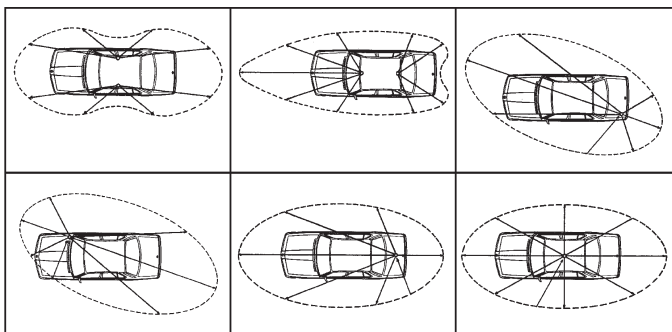
- For CB radios, the longer the antenna, the better its results. Your dealer will be able to help you with your choice of antenna.

b) Mobile antenna:

- Must be fixed to the vehicle where there is a maximum of metallic surface (ground plane), away from windscreen mountings.
- If you already have a radio-telephone antenna installed, the CB antenna should be higher than this.
- There are two types of antenna: *pre-regulated* which should be used on a good ground plane (e.g. car roof or lid of the boot), and *adjustable* which offer a much larger range and can be used on a smaller ground plane (see p 27 § 5, Adjustment of SWR).
- For an antenna which must be fixed by drilling, you will need a good contact between the antenna and the ground plane. To obtain this, you should lightly scratch the surface where the screw and tightening star are to be placed.
- Be careful not to pinch or flatten the coaxial cable (as this runs the risk of break down and/or short circuiting).
- Connect the antenna (B).

c) Fixed antenna:

- A fixed antenna should be installed in a clear space as possible. If it is fixed to a mast, it will perhaps be necessary to stay it, according to the laws in force (you should seek professional advice). All PRESIDENT antennas and accessories are designed to give maximum efficiency to each CB radio within the range.



OUTPUT RADIUS PATTERNS

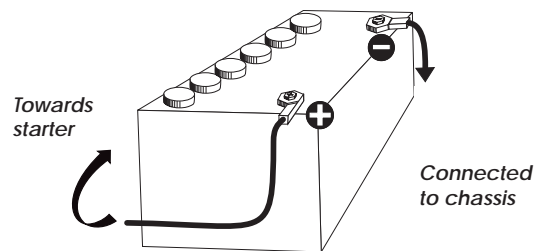
3) POWER CONNECTION:

Your PRESIDENT HERBERT ASC is protected against an inversion of polarities. However, before switching it on, you are advised to check all the connections. Your equipment must be supplied with a continued current of 12 volts (A). Today, most cars and lorries are negative earth. You can check this by making sure that the negative terminal of the battery is connected either to the engine block or to the chassis. If this is not the case, you should consult your dealer.

WARNING: Lorries generally have two batteries and an electrical installation of 24 volts, in which case it will be necessary to insert a 24/12 volt converter (type CV 24/12 PRESIDENT) into the electrical circuit. The following connection steps should be carried out with the power cable disconnected from the set.

- Check that the battery is of 12 volts.
- Locate the positive and negative terminals of the battery (+ is red and - is black). Should it be necessary to lengthen the power cable, you should use the same or a superior type of cable.
- It is necessary to connect your CB to a permanent (+) and (-). We advise you to connect the power cable directly to the battery (as the connection of the CB cable to the wiring of the car-radio or other parts of the electrical circuit may, in some cases, increase the likelihood of interference).
- Connect the red wire (+) to the positive terminal of the battery and the black (-) wire to the negative terminal of the battery.
- Connect the power cable to your CB radio.

WARNING: Never replace the original fuse (2 A) by one of a different value.



4) BASIC OPERATIONS TO BE CARRIED OUT BEFORE USING YOUR SET FOR THE FIRST TIME (without transmitting and without using the «push-to-talk» switch on the microphone):

- a) Connect the microphone
- b) Check the antenna connections
- c) Turn the set on by turning the knob VOLUME clockwise.
- d) Turn the SQUELCH knob to minimum (anti-clockwise). Adjust the volume to a comfortable level.
- e) Go to Channel 20 using either the «CH ▲» «CH ▼» key on the microphone or the rotary knob.

5) ADJUSTMENT OF SWR (Standing wave ratio):

WARNING: This must be carried out when you use your CB radio for the first time (and whenever you re-position your antenna). The adjustment must be carried out in an obstacle-free area.

* Using an external SWR meter (e.g. SWR 1 or SWR 2):

- a) To connect the SWR meter :
 - Connect the SWR meter between the CB radio and the antenna as close as possible to the CB (use a maximum of 40 cm cable, type President CA 2C).
- b) To adjust the SWR meter:
 - Set the CB to channel 20.
 - Put the switch on the SWR meter to position CAL ou FWD.
 - Press the «push-to-talk» switch on the microphone to transmit.
 - Bring the index needle to t by using the calibration key.
 - Change the switch to position SWR (reading of the SWR level). The reading on the V.U. meter should be as near as possible to 1. If this is not the case, re-adjust your antenna to obtain a reading as close as possible to 1. (An SWR reading between 1 and 1.8 is acceptable).
 - It will be necessary to re-calibrate the SWR meter after each adjustment of the antenna.

Your CB is now ready for use.

B) HOW TO USE YOUR CB:

1) ON/OFF - VOLUME:

- a) To turn the set on, turn the knob (1) clockwise
- b) To increase the sound level, turn the same knob further clockwise.

2) ASC (Automatic Squelch Control)/SQUELCH :

Suppresses undesirable back-ground noises when there are no communication. Squelch does not effect neither sound nor transmission power, but allows a considerable improvement in listening comfort.

a) ASC: Automatic Squelch Control Worldwide patent, a PRESIDENT exclusivity

No repetitive manual adjustment and a permanent improvement in listening comfort when this function is active. It can be disconnected by turning the switch (2) clockwise, in this case the manual squelch control becomes active again.

b) Manual squelch

Turn the squelch knob clockwise to the exact point where all back-ground noise disappears. This adjustment should be done with precision as, if set to maximum, (i.e. fully clockwise) only the strongest signals will be received.

3) RF GAIN:

This knob is for adjusting sensitivity during reception. For long distance communications RF GAIN should be set to maximum. RF GAIN can be reduced to avoid distortion, when your correspondent is close by and when he does not have RF POWER.

The normal setting of this knob is on maximum (fully clockwise).

4) TONE:

This function is used to adjust the tone during reception. Turn on to activate the function.

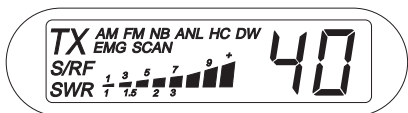
5) CHANNEL SELECTOR KEYS «CH ▲», «CH ▼» AND/OR ROTARY KNOB:

The two keys, «CH ▲» and «CH ▼» on the microphone and on the front panel, allow you to go up and down the channels. This can also be done using the channel rotary knob.

«CH ▼» key : one quick press allows you to go down by **one** channel, continued pression allows you to descend five channels per second.
 «CH ▲» key : one quick press allows you to go up by **one** channel, continued pression allows you to ascend five channels per second.

6) DISPLAY:

The display shows all the different functions.



The bargraph shows the level of reception and the level of power emitted.

7) CH 19/9:

Channels 9 AM and 19 AM are automatically selected when you depress this key.

Activate Channel 19 AM by depressing the key once. "EMG" appears in the display. A second depression of this key activates Channel 9 AM and "EMG" remains in the display. To return to the previous configuration re-depress the same key and "EMG" disappears from the display.

8) SCAN:

This function allows you to "scan" all the channels. Scanning stops when a signal is detected. By depressing the Scan key when a signal is detected scanning starts again from the next channel Five seconds after the end of the signal, scanning continues. By going into transmission mode you may communicate with your correspondent and your CB leaves the scanning mode.

This function is activated by depressing the SCAN key and "SCAN" appears in the display. Scanning starts after you have adjusted the squelch level. To cancel, depress the same key, "SCAN" disappears from the display and the set returns to the previous configuration.

9) MODE:

Use this key to select AM or FM. The modulation mode must correspond with that of the person with whom you communicate.

A/ Amplitude Modulation (AM) is for communications in areas where there

are obstacles and over medium distances.

B/ Frequency Modulation (FM) is for nearby communications in flat, open areas. It gives better quality of communication (squelch adjustment needs more finesse).

10)DW (Dual Watch):

This function lets you watch over Channels 9 AM and 19 AM and the channel you are using. The set goes to and from the two channels (approximately 0,5 second per channel) and stops on the one where a signal is detected (reception level defined by squelch). Dual Watch restarts five seconds after the end of the signal, unless you go into transmission.

Press the DW key to watch over Channel 19 AM and the channel you are using. "DW" appears in the display. Press the key a second time to activate a watch over Channel 9 and the channel you are using. "DW" remains in the display. To cancel, press the same key. "DW" disappears from the display.

11)MIC GAIN:

Is for regulating microphone sensitivity, when using a microphone other than the one supplied with your PRESIDENT HERBERT ASC. (pre-amplified).

The normal setting of this knob is fully clockwise.

12)HI-CUT:

Cuts out high frequency interference. Its use depends on reception conditions. *Depress the key to use this function, "HC" appears in the display. To cancel, press the same key, "HC" disappears from the display.*

13)SWR:

This function allows you, when in transmission, to take an SWR reading. This is carried out when a change is made to the antenna or its connections. If the SWR reading is above 1.8 it is necessary to re-adjust the SWR.

Go into transmission mode, and depress SWR. "SWR" appears in the display. The SWR value can be seen on the lower scale of the bargraph. To cancel this function, press SWR again and "SWR" disappears from the display.

14)PA (Public Address):

An external loud speaker can be connected to your PRESIDENT HERBERT ASC by the jack plug situated on the back panel PA.SP (E). By pressing the PA key, the message transmitted into the microphone will be directed towards the external speaker and be amplified. Hold the microphone far enough away from this loud speaker so as to avoid the Larsen effect (accoustic feedback).

To activate this function, press the PA key. "PA" appears in the display. The PA volume is controlled by the MIC GAIN knob. To cancel PA, press the PA key and the set returns to the previous configuration.

15) NB/ANL:

Noise Blanker/ Automatic Noise Limiter. These filters allow the reduction of back ground noise, and some reception interference.

AM Mode (NB and ANL active)

Press this key once to activate the NB filter. "NB" appears in the display. A second depression of the same key activates ANL. "ANL" appears in the display. A third depression of the same key activates both NB and ANL. "NB ANL" appears in the display. A fourth depression cancels both filters and "NB ANL" disappears from the display.

FM Mode (NB only)

To activate the NB filter, press the key once. "NB" appears in the display. To cancel, depress the same key. "NB" disappears from the display.

16) 6-PIN MICROPHONE PLUG:

This plug is situated on the front panel, thereby making it easier to set the equipment into the dashboard. See the cabling diagram on page 43.

17) PTT (push to talk):

Depress this knob to transmit a message and release to listen to an incoming communication.

A) DC-POWER TERMINAL (13,2 V)

B) ANTENNA CONNECTOR (SO-239)

C) EXTERNAL S-METER JACK (Ø 2,5 mm)

D) EXTERNAL SPEAKER JACK (8 Ω, Ø 3,5 mm)

E) PA SPEAKER JACK (8 Ω, Ø 3,5 mm)

C) TECHNICAL CHARACTERISTICS:

1) GENERAL:

- Channels : 40
- Modulation modes : AM/FM
- Frequency ranges : from 26.965 MHz to 27.405 MHz
- Antenna impedance : 50 ohms
- Power supply : 13.2 V
- Dimensions (in mm) : 180 (L) x 188 (H) x 50 (D)
- Weight : 1.5 kg
- Accessories supplied : microphone UP/DOWN with support, mounting cradle, screws and fused power cord.

2) TRANSMISSION:

- Frequency allowance : +/- 100 Hz
- Carrier power : 1 watts AM / 4 W FM
- Transmission interference : inferior to 4 nW (- 54 dBm)
- Audio response : 300 Hz à 3 KHz in AM/FM
- Emitted power in the adj. channel : inferior to 20 µW
- Microphone sensitivity : 1,0 mV
- Drain : 1,7 A (with modulation)
- Modulated signal distortion : 1,8 %

3) RECEPTION:

- Maxi. sensitivity at 20 dB sinad : 0.4 µV - 115 dBm (AM/FM)
- Frequency response : 300 Hz à 3 kHz in AM/FM
- Adjacent channel selectivity : 60 dB
- Maximum audio power : 5 W
- Squelch sensitivity : minimum 0.2 µV - 120 dBm
maximum 1 mV - 47 dBm
- Frequency image rejection rate : 60 dB
- Intermediate frequency rej. rate : 70 dB
- Drain : 550 mA nominal / 1500 mA maximum

D) TROUBLE SHOOTING:

1) YOUR CB RADIO WILL NOT TRANSMIT OR YOUR TRANSMISSION IS OF POOR QUALITY:

- Check that the PA function is not activated
- Check that the antenna is correctly connected and that the SWR is properly adjusted.
- Check that the microphone is properly plugged in.

2) YOUR CB RADIO WILL NOT RECEIVE OR RECEPTION IS POOR:

- Check that the PA function is not activated
- Check that the squelch level is properly adjusted.
- Check that the volume is set to a comfortable listening level.
- Check that the microphone is properly plugged in.
- Check that the antenna is correctly connected and that the SWR is properly adjusted.
- Check that you are using the same modulation mode as your correspondent.

3) YOUR CB WILL NOT LIGHT UP:

- Check the power supply.
- Check the connection wiring.
- Check the fuse.

E) HOW TO TRANSMIT OR RECEIVE A MESSAGE:

Now that you have read the manual, make sure that your CB Radio is ready for use (i.e. check that your antenna is connected).

Choose your channel (19, 27).

Choose your mode (AM/FM) which must be the same as that of your correspondent.

Press the «push-to-talk» switch and announce your message «Attention stations, transmission testing» which will allow you to check the clearness and the power of your signal. Release the switch and wait for a reply. You should receive a reply like, «Strong and clear».

If you use a calling channel (19, 27) and you have established communication with someone, it is common practice to choose another available channel so as not to block the calling channel.

F) GLOSSARY:

Below you will find some of the most frequently used CB radio expressions. Remember this is meant for fun and that you are by no means obliged to use them. In an emergency, you should be as clear as possible.

INTERNATIONAL PHONETIC ALPHABET:

A Alpha	H Hotel	P Papa	W Whiskey
B Bravo	I India	Q Quebec	Y Yankee
C Charlie	J Juliett	R Romeo	Z Zulu
D Delta	L Lima	S Sierra	
E Echo	M Mike	T Tango	
F Foxtrott	N November	U Uniform	
G Golf	O Oscar	V Victor	

TECHNICAL VOCABULARY:

AM	: Amplitude Modulation
CB	: Citizen's Band
CH	: Channel
CW	: Continuous Wave
DX	: Long Distance Liaison
DW	: Dual Watch
FM	: Frequency Modulation
GMT	: Greenwich Meantime
HF	: High Frequency
LF	: Low Frequency
LSB	: Lower Side Band
RX	: Receiver
SSB	: Single Side Band
SWR	: Standing Wave Ratio
SWL	: Short Wave Listening
SW	: Short Wave
TX	: CB Transceiver
UHF	: Ultra High Frequency
USB	: Upper Side Band
VHF	: Very High Frequency

CB LANGUAGE:

Advertising	: Flashing lights of police car
Back off	: Slow down

Basement : Channel 1
 Base station : A CB set in fixed location
 Bear : Policeman
 Bear bite : Speeding fine
 Bear cage : Police station
 Big slab : Motorway
 Big 10-4 : Absolutely
 Bleeding : Signal from an adjacent channel interfering with the transmission
 Blocking the channel : Pressing the PTT switch without talking
 Blue boys : Police
 Break : Used to ask permission to join a conversation
 Breaker : A CBER wishing to join a channel
 Clean and green : Clear of police
 Cleaner channel : Channel with less interference
 Coming in loud and proud : Good reception
 Doughnut : Tyre
 Down and gone : Turning CB off
 Down one : Go to a lower channel
 Do you copy? : Understand?
 DX : Long distance
 Eighty eights : Love and kisses
 Eye ball : CBERs meeting together
 Good buddy : Fellow CBER
 Hammer : Accelerator
 Handle : CBER's nickname
 Harvey wall banger : Dangerous driver
 How am I hitting you? : How are you receiving me?
 Keying the mike : Pressing the PTT switch without talking
 Kodak with a kodak : Police radar
 Land line : Telephone
 Lunch box : CB set
 Man with a gun : Police radar
 Mayday : SOS
 Meat wagon : Ambulance
 Midnight shopper : Thief
 Modulation : Conversation
 Negative copy : No reply
 Over your shoulder : Right behind you
 Part your hair : Behave yourself - police ahead
 Pull your hammer back : Slow down
 Rat race : Congested traffic
 Rubberbander : New CBER

Sail boat fuel : Wind
 Smokey dozing : Parked police car
 Smokey with a camera : Police radar
 Spaghetti bowl : Interchange
 Stinger : Antenna
 Turkey : Dumb CBER
 Up one : Go up one channel
 Wall to wall : All over/everywhere
 What am I putting to you? : Please give me an S-meter reading.



Dirección General de Telecomunicaciones

CERTIFICADO DE ACEPTACIÓN

En virtud de lo establecido en el Reglamento por el que se establece el procedimiento de certificación para los equipos a que se refiere el artículo 29 de la Ley de Ordenación de las Telecomunicaciones, aprobado por el Real Decreto 1787/1996, de 19 de julio (Boletín Oficial del Estado número 209 de 29 de agosto), se expide por la Dirección General de Telecomunicaciones, el presente certificado de aceptación a favor de:

Nombre o razón social: **PRÉSIDENT ANTENAS IBERICA S.A.**
Dirección: **C/BOTANICA, 107-109 en HOSPITALET DE LLOBREGAT, BARCELONA, C.P.**

089208

Teléfono: **93-3354488** Fax: **93-3367872**

Documento de identificación (CIF/NIF): **A-08830895**

y con número:



Para el equipo: **RADIOTELEFONO CB-27**
fabricado por: **UNIDEN DEUTSCHLAND GMBE**
en: **FILIPINAS**
marca: **PRESIDENT**
modelo: **HERBERT**
y con certificado de examen de tipo número: **031197**

acompañado de:
Declaración de conformidad con el tipo realizada por:

Razón social: **PRÉSIDENT ANTENAS IBERICA S.A.**
Domicilio: **C/BOTANICA, 107-109**
Ciudad: **HOSPITALET DE LLOBREGAT**
Provincia: **BARCELONA**

Cada uno de los equipos amparados por el presente certificado deberá incorporar la mención siguiente:

E	D.C.Tel.	02 97 0209
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de la forma indicada en el anexo I del Real Decreto 1787/1996, de 19 de julio (Boletín Oficial del Estado número 209 de 29 de agosto).

El plazo de validez del presente certificado finaliza el **31 de diciembre del 2002**

Y para que surta los efectos previstos en el artículo 29 de la Ley 31/1987, de 18 de diciembre, de Ordenación de las Telecomunicaciones, modificada por la Ley 32/1992, de 3 de diciembre, expido el presente certificado.

Madrid, 25 de junio de 1997

EL DIRECTOR GENERAL DE TELECOMUNICACIONES,

Valentín Sanz Caja



S.A. CAPITAL 100.000.000 FF. - SIRET 389 102 260 000 12

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Site Internet : http://www.pantal.com/president_cb/
E-mail : president@mail.mnet.fr

DECLARACIÓN **CE** DE CONFORMIDAD

A las disposiciones de la directiva 89/336/CCE
"Compatibilidad electromagnética"

Declaramos, bajo nuestra responsabilidad, que el producto :

We declare, under our own responsibility that the following product :

Emisora CB President HERBERT

es conforme a las normas o a los documentos siguientes :

is in compliance with following norms or documents :

pr ETS 300 680 part 1, part 2 (junio 95)

Nombre y título del firmante :

Name and title of subscriber :

GPE, ALBERT BERTRANA, Director técnico

Lugar, fecha y firma :

Place, date and signature :

P/O Michel FABRI



Balaruc, el 10 de diciembre 1996

Model HERBERT FM

TRANSCIVER IN ACCORDANCE WITH THE EUROPEAN STANDARD
ETS 300 135 : 40 CHANNELS, 4 W FM
APPROVAL DGPT N° 96 0148 CB 0



Addition to the service manual supplied:

PAGE 28:

- 7) The CH 19/9 (7) function key activates the CH 19 FM or 9 FM.
- 9) The MODE (9 function key) is inoperative.
- 10) The DW (10) function key activates dual watch between channel 19 FM or 9 FM and the current channel.

PAGE 29:

- 15) The NB/ANL (15) function key activates only the NB filter.

PAGE 29:

D) TECHNICAL SPECIFICATIONS :

1) GENERAL:

- Approval DGPT N° : 96 0148 CB 0
- Channels : 40
- Modulation modes : FM

2) TRANSMISSION:

- Carrier power : 4 W FM CW
- Frequency response : 300 Hz to 3 kHz in FM

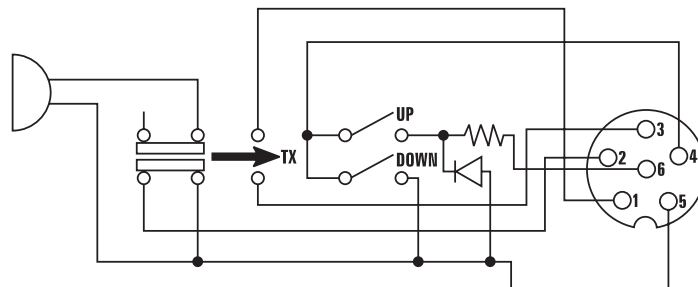
3) RECEPTION:

- Max. sensitivity at 20 dB sinad : 0.4 μ V - 115 dBm (FM)
- Frequency response : 300 Hz to 3 kHz in FM

FREQUENCY TABLES
CB-KANÄLE UND IHRE FREQUENZEN
TABLEAU DES FRÉQUENCES
TABLA DE FRECUENCIAS

N° du canal N° Canal Channel Kanal	Fréquences Frecuencia Frequency Frequenz	N° du canal N° Canal Channel Kanal	Fréquences Frecuencia Frequency Frequenz
1	26,965 MHz	21	27,215 MHz
2	26,975 MHz	22	27,225 MHz
3	26,985 MHz	23	27,255 MHz
4	27,005 MHz	24	27,235 MHz
5	27,015 MHz	25	27,245 MHz
6	27,025 MHz	26	27,265 MHz
7	27,035 MHz	27	27,275 MHz
8	27,055 MHz	28	27,285 MHz
9	27,065 MHz	29	27,295 MHz
10	27,075 MHz	30	27,305 MHz
11	27,085 MHz	31	27,315 MHz
12	27,105 MHz	32	27,325 MHz
13	27,115 MHz	33	27,335 MHz
14	27,125 MHz	34	27,345 MHz
15	27,135 MHz	35	27,355 MHz
16	27,155 MHz	36	27,365 MHz
17	27,165 MHz	37	27,375 MHz
18	27,175 MHz	38	27,385 MHz
19	27,185 MHz	39	27,395 MHz
20	27,205 MHz	40	27,405 MHz

PRISE MICRO 6 BROCHES
CONEXIÓN DEL MICRO 6 PINS
6-PIN MICROPHONE PLUG
BELEGUNG DER MIKRO-FONBUCHSE (sechspolig)



1	Modulation	Modulación	Modulation	Modulation
2	RX	RX	RX	RX
3	TX	TX	TX	TX
4	UP/DOWN	UP/DOWN	UP/DOWN	UP/DOWN
5	Masse	Masa	Ground	Masse
6	Alimentation	Alimentación	Power Supply	Stromversorgung

Groupe
PRESIDENT
ELECTRONICS

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0249/04-01

PRESIDENT