



CB Radio
AE 6790
User Manual



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Introduction

Congratulations on your new CB radio **AE 6790**. This CB radio from our Heavy Duty Series is an extremely robust designed radio and can be used nearly **everywhere in Europe** (except Austria, where you are only permitted to use our specially programmed FM version until the new EU regulations come into force), which can be programmed according to the country of use. Since the new European regulations require that you are familiar with the regulations before first using the radio, we strongly recommend to read this user Manual and to use only such programming as scheduled for your country.

Your new CB radio features the following alternatives:

- 40 channels FM / 4 Watts, plus 40 channels AM, 1 Watt (programming 40/40 EU)
- 80 channels FM / 4 Watts, plus 40 channels AM, 1 Watt (programming 80/40 dE)

You can change these two settings with a bridge in the main unit to 4W in AM, as soon as the new regulations become national law in Germany.

- 40 channels FM / 4 Watts (programming 40 FM / factory setting for Austria *EC*)
- 40 channels FM / 4 Watts, plus 40 channels AM, 4 Watt (programming for Poland **Po**)
- 40 channels FM / 4 Watts, plus 40 channels AM, 4 Watt (programming for Spain E)

The settings **E** and **Po** correspond already with the new CEPT standard CEPT/ECC DEC 11 (03) and ETSI EN 300 433-2

- 40 channels FM / 4 Watts (programming 40 FM for UK U)
- Channel selection with up/down buttons on the radio and on the microphone
- Detachable front panel for separate installation and microphone jack
- Large LCD display for channel, frequency, status, power and S meter display
- 6-pin microphone jack on control panel according to Albrecht standard for any microphone, even for data transmission and gateway operation
- External speaker jack
- Scan, dual watch monitoring and 3 programmable memory channels
- EEPROM Flash memory for saving the last setting no loss of data due to power failure
- Direct change of country setting during operation

Versions for certain countries with other features (e.g. for Austria without country selection **AE 6790 FM**) available on request and/or can be modified by authorized dealers for the respective country.

Scope of Delivery

Your AE 6790 comes ready to use with the following accessories:

- Mobile holder for unit and separate installation material for front panel
- Hand microphone
- Bracket for hand microphone
- Plug-in DC cable in-line fuse
- Detached operation via 9-pin Sub-D cable (approx. 2m length) supplied incl. screws (installation accessories)
- User manual with "Albrecht Radio Passport"

Radio Installation

You can operate your AE 6790 in the car or as a base station at home. For installation as a mobile station in the car a mobile holder and a variety of installation materials are included. Do not install the device in direct sunlight, since the increased temperature can shorten the lifecycle of the device. Do not install in close proximity to a heater. Install the device in such way that it is not subjected to major vibration.

Install the mobile holder with the included self-tapping screws on dashboard, chassis tunnel or in other suitable location. Do not install the device in areas where it can cause injuries due to accident (observe sufficient legroom). Ensure not to damage existing cables during installation!

Slide the radio into the mobile holder. Fix the device with the large knurled screws (use the included plastic washers!) in the desired view angle. Detach the front panel (loosen 2 screws at the bottom) if installation of the complete unit is not possible and install the radio separate from the control panel. Install the microphone bracket with the included screws in an easy to reach location.



For detached installation use the included approx. 2m long 9-pin Sub-D cable.

Side view of detached control panel

Fix the cable with the screws after installation! The installation material includes the two screws for the plug if not already attached to the cable.



Power Supply

Power supply via the 2-pole plug-in cable, which is equipped with in-line fuse holder. Operate the radio in vehicles (12V) or as base station via suitable 12V power adaptor (at least 2A, stabilized).

Vehicle Power Connection

Connect the **red power cable** to the **positive terminal** (i.e. a point within the vehicle wiring with **12V** supply power) and the **black cable** to the **negative terminal**.

We strongly recommend connecting the radio directly to the battery. Generally direct connection supplies the most stable operating voltage and optimum protection against interferences during reception and transmitter modulation.

Modern vehicle wiring is so complex that connecting to other points (such as car radio terminals or cigar lighter) can lead to interferences. These can be heard as "singing" or crackling during reception, in some persistent cases also during transmission as "alternator noise".

If you cannot connect directly to the battery, as recommended, try the best possible connecting point before final installation. Start the engine to check if the selected connection causes reception or transmission noise by ignition or alternator. In case persistent noise from the onboard network cannot be resolved, have the service install our DC noise filter (order no. 70600).

To automatically turn off the radio when turning off the ignition, connect to the switched voltage at the ignition switch. Our AE 6790 features continuous Flash EEPROM memory of the last setting and starts with the setting used last upon **turning on the ignition again**.

The last setting is not deleted, even if the radio is disconnected from power supply for a longer period of time.

Radio ground connection (negative):

Connect the **black** cable to the negative battery terminal or to a proper GND point on the engine lock or a central GND connector in the vehicle. Avoid ground connection via self-tapping screws to the bodywork. This is not a robust connection and frequently causes malfunction.

Importance of the Fuse in the Power Cable

The in-line fuse protects your radio from serious damage due to technical defects or incorrect connection. A fuse does not blow without reason. In most cases this is due to incorrect polarity and the internal protective diode has responded.

During a short circuit inside the device the fuse blows to prevent serious damage.

Determine and eliminate the cause if a fuse blows, then exchange the fuse with a similar one (use fuses up to 5A).

Never repair a blown fuse with silver paper or tin foil! Return your radio to your dealer or an authorized service partner in case the fuse blows repeatedly.

Notes Especially for Truck and RV Drivers

The permissible operating voltage of the radio can vary, according to the standard, between 10.8 and 15.6V, without the radio's performance values changing. The transmission stages of your AE 6790 are electronically stabilized. Output increase by excessive operating voltage is thus impossible. This can only lead to serious defects, but not to output increase! Truckers must ensure never to connect the radio directly to 24V. For 24V a suitable voltage converter 24V to 12V is necessary. Since trucks mostly have voltage converters already installed for other devices such as mobile phone, TV, car radio the power consumption of the CB radio should be calculated with approx. 1.5 to 2A. Although especially compact and low-loss **switching converters** with CE mark are interference-suppressed according to EU regulations for "normal" vehicle electric consumers such as car radios, cooler boxes or coffee machines, **this frequently is not sufficient for undisturbed CB reception**, since CB radios feature highly sensitive receivers. We cannot guarantee flawless CB reception during switching converter operation and in vehicles with board computers.

Problems cannot be avoided in all cases without trials. It is also important that the aerial is located as far away from other aerials and from the converter wiring as possible and has a good grounding surface. Contrary to mobile phone and car radio antennas conventional **CB aerials cannot be installed on plastic surfaces, unless a metal foil is at the bottom side.** Ground connection is especially important for CB radios. In case the truck still has a metal mirror holder, the foot can be attached here with an angle mount, but not e.g. on a pure GRP roof or GRP spoiler. If the antenna cannot be installed on a conductive surface, our floating ground CB mobile antennas such as **GL 27** are available.

230V Operation via Power Adaptor

In case you operate your radio at home, use a specially stabilized CB radio power adaptor to supply at least 1.5-2A at 12-13.8VDC. A suitable power adaptor is the Albrecht order no. 4744. Non-stabilized power adaptors, battery chargers or popular cooler box adaptors are not suitable for CB radio and should not be used. Switching power adaptors can only be used in connection with an external antenna for CB radio, which does not receive the interferences of these power

adaptors. Connect the positive cable **(red)** to the **positive terminal** (+) of the power adaptor, the **black** cable to the **negative terminal** (-) of the power adaptor.

Antenna Connection – Rear Antenna (PL259) Ext. speaker 12VDC cable

Connect your CB antenna via PL connector to the 50 Ohms antenna jack at the rear of your AE 6790. For best range the antenna must be adjusted for CB radio. Use a standing wave meter to check and to adjust the antenna. Adjust the antenna for best standing wave ratio on a medium channel. If you are using 80 channels optimize on channel 1, for 40 channels on channel 20 and for truckers we generally recommend channel 9.

On this channel you should achieve a standing wave ratio of approx. 1.5 or less. Even if the standing wave ratio on the highest (channel 40) and lowest channel (1 or 41) deteriorates up to 2, your antenna is still suitable. If the standing wave meter shows a value in red (SWR > 3), already more than 25% of the transmission power is lost due to modulation losses. Poor SWR can also be a sign for a defective antenna, cable or short-circuit in the antenna connector! Otherwise optimize your antenna on the channel you use most.

Dealers also offer broadband antennas such as **Gamma II**, where no adjustment is necessary. Your dealer offers inexpensive standing wave meters such as the Albrecht SWR 30, order no. 4412.

By the way: Even with your AE 6790 featuring an especially robust final stage, which can even cope with maladjustments of SWR = 3, you should never transmit without antenna!

Vehicle Manufacturer Installation Instructions

When installing a radio in a vehicle always observe the instructions of truck and car manufacturers. Vehicle manufacturers have the right, according to applicable EU directives, to stipulate antenna installation locations and the maximum compatible transmission power for their vehicles. Observe these specifications under all circumstances not to risk to forfeit the operating license for your vehicle. Information is available from the vehicle manufacturers. If in doubt, have the vehicle manufacturer certify that no reservations against CB radio operation in connection with the vehicle electronics exist.

Legal Notices

This device features the marking according to R&TTE directive:
The CE mark means that the radio satisfies all technical regulations applicable to the product within the scope of EU Council directives, European standards and national frequency applications. The so-called R&TTE directive replaces all previous national "certifications" within the EU and regulates also marketing and use of radio equipment. Accordingly **ownership** of and **retail** with properly marked devices such as the AE 6790 within the EU and some other (non-EU) countries recognizing the R&TTE directive, **is permitted**, while for the **use** of radio equipment depending on programming and country temporarily **different regulations** apply. For CB radio this means: although technical standards EN 300 135 and EN 300 433 apply Europe-wide, the use of certain modulation modes and channel numbers do not. For this reason there are still differences in the channel number programming for AM and FM, and

some countries still charge fees for CB radios. All radios, for which somewhere in Europe still limitations exist are therefore marked with an "attention mark" (see above) besides the CE mark. The manufacturers are bound to inform users clearly on the packaging what to observe while using the devices.

This is insofar comprehensible, since frequencies, which earlier were approved in the different countries for different purpose, cannot easily be uniformly reassigned.

The new CB standards were adopted in May / June 2011 by CEPT and published as European decision **ECC/DEC11(03)**. It can still take some time until they are adopted by all countries.

AE 6790 satisfies the harmonized European radio standards EN 300 433-2 and EN 300 135-2 for CB radios, as well as EN 301 489-13 for electro-magnetic compatibility and EN 60 950-1: 2006 for electric safety. The device does not transmit harmful radio interferences and is on the other hand irradiation-resistant when used according to this user manual. This is generally the case when cables not longer than 3m are connected to the microphone and speaker jacks.

Safety Precautions

Electro-magnetic waves as transmitted by broadcasters, mobile phones and radios can affect other sensitive electronic devices in their immediate vicinity. As a precaution we recommend for persons with pacemakers to collect information with respect to the interference immunity of their pacemakers before operating a CB radio for the first time. Although in most cases the CB radio output is quite safe, no harm is done to talk to your physician first. Please note that you are in the immediate proximity of the transmission antenna, especially during mobile operation. Please keep safety distances if they are recommended by your physician or by the pacemaker's manufacturer! Do not transmit without the antenna connected and never touch the antenna during transmission! During vehicle operation traffic safety is the absolute priority!

Even if radio operation such as your CB radio in Germany is exempt from the so-called "mobile phone ban", and you may use your AE 6790 while driving, only reach for the microphone when the traffic permits! Please note that in many other countries no exceptions are made for CB radios. As the driver you are not permitted to operate a radio while driving, unless you have a hands-free kit. Enguire after the respective regulations before driving in other countries!

Operation

Front view

CH - Channel UP-DOWN buttons **MT** - Multi-standard selection switch

LCD display

SQ Squelch ON-OFF



Microphone socket (6 pin)

Function buttons A/F AM/FM – SC Scan – DW Dual watch – CH 9 – FRQ (Frequency/Channel) Mericles fixed factor (CScal-DX)

VR - Volume FC - Function BP - Beep tone

Your radio can be changed over between different country versions during operation.

- To toggle during operation press the **MT** button.
- The current country setting flashes, e.g. **dE**.
- Use the **channel selector** to select a new country, e.g. **EU**.
- Press the **MT** button again to confirm programming.

The country programming is valid until you set a new country programming, even if disconnected from power supply for a longer period of time!

The basic setting for the device to turn on when the first time connected to 12V can for certain countries be set differently ex factory!

With first use *devices purchased in Germany* start with AM / FM programming:

• **dE** 80/40 operation on 80 channels in FM and 40 channels in AM. The preset channel is channel 9 in AM; the device starts on the international trucker and emergency channel. After a few moments **dE** is displayed (for Germany).

This programming is only permitted for Germany, the Czech Republic and Slovakia and is not to be used in any other country (in the Czech Republic only 80 FM and in SK only channels 1-40 in FM + channels 70-80 are to be used).

• **EU** 40/40 operation on 40 channels in FM and 40 channels in AM. The preset channel here is also channel 9 in AM; the device starts on the international trucker and emergency channel. After a few moments **EU** is displayed (for Europe).

This programming is designed for Belgium, Bulgaria, Germany, Estonia, Switzerland (incl. Liechtenstein), Finland, France, Greece, Ireland, Italy, Latvia, the Netherlands, Poland, Portugal, Romania and Spain. For Poland a special programming exists (see below) with the frequencies according to the old Polish standard offset 5 kHz downward. For Spain also still a special programming exists with 4 Watts AM; this and the Polish switch setting are only to be used in the respective countries.

• **EC** 40 FM operation on 40 channels in FM (former **CEPT** setting).

Not all EU countries (*EC* setting) already permit AM operation for CB radios. Denmark, the UK, Iceland, Croatia, Luxembourg, Lithuania, Malta, Norway, Sweden, Slovenia, Hungary and Cyprus temporarily only use the *EC* 40 FM programming, until the new regulations are finally implemented.

- **Po 40/40** operation on 40 channels in FM (4 Watts) and 40 channels in AM (4 Watt) on the frequencies formerly common in Poland, which are offset against the international frequencies by 5 kHz. This setting is only permitted in Poland, nowhere else!
- **E** 40/40 operation on 40 channels in FM (4 Watts) and 40 channels in AM (4 Watts). This setting is **the new European CEPT setting**. Currently, at the time of this manual going to press, this setting applies already in Spain and Italy. The other countries will follow.
- **U 40 FM** 40 channels FM operation in the UK and Northern Ireland.

In Austria operation of switchable radios is generally not permitted. You may leave your radio installed while crossing these countries, but you are not allowed to operate them. For Austrian customers we supply a version AE 6790 FM without country selection. Authorized dealers are also permitted to change devices for Austria.

Observe the country regulations according to device ID! The latest country regulations you can find on the current device ID, which you can download from our web site

http://service.alan-electronics.de

Most Important Functions

On / Off and Receiving

is the On/Off switch. Press and hold for approx. 2 seconds, display and buttons are illuminated. Now set the desired volume.

Set Volume

• Turn the **VR** rotary knob slowly clockwise. The volume is displayed as a bar.

Set Channel

- Press the UP/Down buttons on the front panel (or on the microphone) to set the desired channel. The current channel and the country programming are displayed.
- Press and hold the button to continuously cycle up or down through the channels (see display).

Set SQ (Squelch)

Especially in FM the noise on a free channel is disturbing. You can suppress this noise with the **squelch function** (**SQ** knob), but also weak signals.

- Set the signal strength for the signal to open the speaker with the **SQ** knob:
- The further you turn the SQ knob clockwise, the stronger the signal must be to be audible over the speaker.

Set the squelch sensitivity on a free channel:

- Select a free channel with the channel selector, which has no signal display.
- Carefully turn the **SQ** knob clockwise until the noise just disappears.

Now the speaker stays muted on a free channel, but turns on with very weak signals. The correct squelch setting is also important for auto scan – with "open" squelch scanning is not possible!

AE 6790 Transmission

For CB radio the old basic principle applies: first listen, and then talk.

After selecting a channel for chatting to a partner, first listen for a moment "into the channel" to find out if it is free! Or simply ask if the channel is free!

Press the large **PTT button** on the side of the microphone (**P**ush-**T**o-**T**alk) to toggle between receiving and transmitting:

- Press the PTT button to transmit. TX illuminates on the LCD.
- At the end of your message release the button to return to receiving.

Do not talk too loud into the microphone! Experience shows that most CB rookies are talking much too loud into the microphone. Newcomers should briefly train with the PTT button: first press the button and start talking only **half a second later**, since the transmitter needs a moment to turn on.

Release the button after finishing your message. Wait for the answer coming from your counterpart! The switching time is for this device design-related, since two processors (in the detachable control panel and in the main unit) must communicate. Your counterpart's CB radio also needs some time to switch over and to be ready to receive.

All Functions Available via the Control Panel

Contrary to other devices with many functions, for the AE 6790 we attached importance to the fact that every button only operates *exactly one function*. The number of dual functions with FC (function button) + respective other button is reduced to a minimum. This simplifies operation and everything can be grasped in short time without constantly referring to the user manual.

- All functions are printed directly on or next to the backlit buttons.
- The activated function is shown on the display.

Only the functions *M1* to *M3* and *LOC* printed in white *right to* the buttons need the *FC* button to be briefly pressed in addition before the actual function.

Buttons on the Left

UP/DOWN Arrow buttons for changing the channels

MT Country code – Briefly press program button *MT*: the country code flashes, select the desired country setting with **UP/Down** or **channel selector**, briefly press *MT* to confirm.

Buttons under the Display

- A/F *Modulation mode* (AM or FM, if activated): Press A/F to toggle between AM and FM (the mode is displayed). For FM devices in Austria this button is invalid.
- **SC**Channel SCAN on/off: Scan of all channels. All channels are scanned in sequence. The scan stops if a transmission is detected and conversation can be heard.

It is important for the scan to have the correct squelch setting to ensure it stops only on active channels. The scan continues about 10 seconds after the conversation has ended. Scanning also continues if the signal gets weak and falls below the switching threshold.

Stop scan: Press the **SC** button again or briefly press the **PTT** button. Press the **SC button twice** (i.e. once for stop and the second time for restart) if the scan stops on an active channel, but you do not want to listen.

DW Dual watch = dual channel monitoring

This is the alternate monitoring of two channels. The device toggles between the previously set monitoring channel and the second channel, so that both channels can be monitored. Monitoring stops on the channel, where activity is detected. Press the *DW* button to select the monitoring channel, then set the second channel. The receiver toggles between the monitoring and other channels. Press the *DW* button again to exit the dual watch mode.

M1 to M3 Select *memory channel*: Press the FC button and then M1, M2 or M3. Change memory: select channel, press the FC button and then **press and hold** (approx. 3 sec) M1, M2 or M3. The memory channels are used to save frequently used frequencies.

CH 9

Direct channel: One-touch change from previously selected channel to channel 9 and back. Channel 9 is the international call and emergency channel: Especially in Germany many receivers listen to this channel. High probability to be heard on this channel in an emergency. Also use channel 9 to start calling other stations. Call the desired station and agree a different channel after your call is answered. In this way you keep channel 9 free for other calls. An emergency channel only works if many stations are listening. Frequently listen to this channel; the channel 9 buttons helps. Press the CH 9 button again to return to the previously used channel.

In AM this channel is also used by all truckers.

FRQ This function toggles between the common *channel number display* and *frequency display*.

LOC Receiver sensitivity selector

Press the **FC** button, then press **LOC** ("local" = reduced sensitivity for close range, **LOC** is displayed). Press **FC** + **LOC** again to deactivate the function, LOC turns off and the device has again its full sensitivity.

Buttons on the Right

On/Off switch, press and hold for approx. 2 seconds.

FC Function button for some secondary functions. Combined with VR knob. Press the VR button once = secondary function, then press the desired function button.

BP Press and hold **VR button**: Key beep tones on/off.

Select Modulation mode: AM or FM?

Traditional CB radio started in the US with 23 channels and the classic modulation mode AM, like amateur radio, sea radio a commercial radio stations in the 1950s and 1960s. Today AM can be found in medium wave and short wave radio stations and in aircraft radio. For commercial radio today only FM is used and for short wave long-distance traffic SSB (single sideband AM). In Europe authorities early restricted CB radio to replace the traditional AM modulation with the interference-free FM modulation. Despite all this especially truckers clung to the old CB traditions and until today use amplitude modulation; this actually has some advantages compared to FM with the less interfering truck diesel engines: a less aggressive sound for the human ear and less noise on unused channels during reception.

Long lasting demands of CB radio operators were finally acknowledged:

More and more EU countries permitted AM again, mainly even registration and license-free, since the suspected noise caused by AM disappeared; the previous "problem children" such as stereo equipment, VCRs or broadband antennas interference resistance has significantly improved during the past years with digitization in TV and satellite technology. The new European standard again permits AM with full transmission power (4 Watts).

Press the A/F button to toggle between AM and FM (the mode is displayed). For Austrian FM devices this button is invalid.

You can only **transmit** in **AM** with your radio if you have programmed the **80/40** or **40/40** mode and if you select a channel, where AM is permitted for transmission.

As soon as you try to switch to one of the channels 41 to 80 on AM, the device switches to 40-channel AM mode with channels 1-40 (and vice versa for German setting).

Both modulation modes have their own channel setting, so that after switching always the previously used FM or AM channel is selected.

Frequently Used Channels

Channel 1 Call channel in FM (in Germany)

Channel 9 Emergency and call channel, trucker channel in Germany (truckers

use channel 9 virtually only in AM!)

Channel 19 Trucker channel in AM in France, Spain and Italy **Data channels** 6, 7, 24, 25, 40, 41, 52, 53, 76, 77 (Germany)

Gateways 11, 29, 34, 39, 61, 71, 80 (Germany)

Channel 40 Call channel in Switzerland

External Connections

Microphone 6 pin socket MIC

Your radio features a 6-pole special jack, which allows up and down channel selection. In case you want to use a different microphone, please note that the channel selection might not be available in the microphone. Wiring corresponds with the common GDCH standard and is also common for alternative microphones.

PIN 1	Microphone audio approx. 3mV / 1000 Ohm with po	wer supply
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PIN 2 PTT RX (receiver contact on GND = speaker GND)

PIN 3 PTT TX (transmission contact on GND)

PIN 4 Additional functions Up / Down

PIN 5 GND, shielding

PIN 6 Power supply for microphone amplifier

The microphone jack is intended for all microphones including preamp or for data transmission or PC sound card connection (e.g. as gateway).

For data and gateway operation pins 4 and 6 should not be used. The cable length at these pins can be up to 3m (shielded cable only).

In some countries (e.g. Germany, Switzerland and the Netherlands) also external devices for data transmission (e.g. packet radio) or Internet gateways can be connected. This kind of data transmission is only permitted on certain channels and only for hobby applications. The permitted channels are not the same for all countries, please find out more (for instance via the CB clubs)!

Do not use channel 40 for data transmissions near Switzerland, since this is their call channel and not intended for data transmission.

External Speaker

Your AE 6890 features a 3.5mm mono jack at the rear to connect an external radio speaker. Upon connection the internal speaker is automatically muted. The external speaker should have 4 to 8 Ohms impedance. Our range of accessories offers a variety of suitable speakers.

Please note that NF Out is very strong and adapted for 4 and 8 Ohms as transformer-coupled amplifier, thus can produce high volume.

A connected speaker should be designed for at least 4 Watts or more continuous output!

Warranty

According to European warranty regulations the warranty period of the seller is 2 years for a new

device. This warranty covers all defects and defect components during the warranty period, except normal wear and tear such as scratches on display or casing, casing defects, broken antennas, exhausted lamps, worn out or damaged microphone cables and defects due to corrosion, voltage peaks due to improper external power supply or use of unsuitable accessories. Furthermore, defects are excluded from the warranty, which are caused by unintended use, defective transmitter final stage due to not adjusted antennas or connection to prohibited amplifiers.

Please contact your dealer directly for warranty claims. The dealer will either repair or replace your device or will name a service address specialized in your type of device.

You may also contact us at a service address found at http://service.alan-electronics.de. If sending your device for repairs please include proof of purchase and add a description of the defect.

Since this device is part of our Heavy Duty Series and is designed especially robust and reliable we guarantee this device, if bought in Germany, an *extended 3-year manufacturer's guarantee period*.

Disposal and Recycling

This radio was manufactured low-emission according to the latest European WEEE directive. Please note that electronic and electric devices are not to be disposed of with the household waste; return these devices to collection points. Returning devices is free of charge for end users, since the industry is covering disposal costs. By returning the device to a collection point you contribute to the recycling of valuable raw materials.



The crossed-trash bon icon on the type label is intended as a reminder!

© September 2011 Alan Electronics GmbH – Daimlerstr. 1 k - D 63303 Dreieich

Technical support for radios sold in UK:

 Telephone:
 +44 1793 882431

 E-mail:
 sales@alan-uk.com

Address: ALAN UK

Unit 2, Callenders, Paddington Drive,

Churchward Park, Swindon,

Wiltshire, SN5 7YW

Home page: www.alan-uk.com

Quick Guide AE 6790

The most important functions on a glance Program country setting before first use:

80/40 *dE* D, CZ, SK

40/40 *EU* B, BG, CH, D, E, EST, F, FIN, FL, GR, IRL, I, LV, NL, P, PL, RO

Please note the still different licensing and charge regulations in some countries

(see device ID!).

40/40 E E, IT, and new Europe CEPT Standard from July 2011: AM 4 Watts, FM 4

Watts, 40 channels.

Please note the standards in most countries must still be implemented.

40FM EC Previous CEPT setting for countries without AM

For temporary use while travelling in all EU countries when it is unknown which standard applies. Unfortunately, in Austria the use of switchable radios is not

permitted, this applies also for 40 FM mode.

Country code: Press the **MT** button, select the country code with the channel selector and press the **MT** button again.

Functions

Dower knob: Switch device on/off

VR Set volume

FC Function button: briefly press the VR rotary knob, FC is displayed. Now select

secondary function. Secondary functions are printed in white next to the buttons.

A/F Select modulation mode (AM or FM, if activated)

CH / UP / DN Select radio channel

SQ Squelch: turn clockwise for repressing weak signals. At right limit stop only strong

signals come through. Best setting is where the background noise just disappears.

PTT Press and hold the push-to-talk button on the side of the microphone for

transmission. Talking distance: some cm

SC Channel SCAN on/off: briefly press the SC button

DW Dual watch monitoring. Select channel, press the **DW** button, then select secondary

channel

LOC FC + LOC Local/DX selection (receiver sensitivity)

BP Key beep tones on/off: press and hold the VR rotary knob (3s) **CH 9** Direct selection channel 9 and return to previous channel

FRQ Frequency display instead of channel number

M1 to M3 Select memory: briefly press FC + M1, M2, or M3

Change memory: select channel, then press FC + press and hold M1, M2, or M3.

Declaration of Conformity / Konformitätserklärung



We hereby declare that our product: / Wir erklären hiermit, dass unser Produkt

CB-Radio Albrecht AE 6790

satisfies all technical regulations applicable to the product within the scope of EU Council Directives, European Standards and national frequency applications:/ alle technischen Anforderungen im Geltungsbereich der EU Richtlinien, europäischer Normen und nationaler Frequencyanwendungen einhält:

73/23/EEC, 2004/108/EG and 99/5/EC, ECC / CEPT DEC 11 (03) EN 300 135 –2 V.1.2.1 / EN 300 433-2 V.1.1.2/ EN 300 433-2 V.1.3.1 EN 301 489-1 V.1.8.1, EN 301 489-13 V.1.2.1, EN 60 950-1: 2006 Resolución de 13 de mayo de 2008 de la secretaria de Estado de Telecomunicaciones y para la Sociedad de la Información

All essential radio test suites have been carried out. / Alle für das Produkt vorgeschriebenen Funktestreihen wurden durchgeführt.

Alan Electronics GmbH Daimlerstr. 1 k D- 63303 Dreieich

This declaration is issued under our sole responsibility. Basing on not harmonised frequency applications, the CB radio may be used only in listed countries according to selected channel programming. An individual licence for operating this radio in **AM + FM** on 40/40 for residents in **CH**, **E** and **I** is requested.

In **D**, where 80/12, 80/40, 40/12 or 40/40 FM/AM channels are allowed, **CZ** (only 80 FM), **SK** (40 FM +70-80), **BG**, **EST**, **F**, **FIN**, **IRL**, **GR**, **LV**, **NL**, **PL**, and **P** the operation on 40 / 40 channels in AM and FM is free of licence and free of charges. If the radio is programmed to 40 FM only, it may be used without license and free of charge in all EU member states + **N**, **IS**, **HR**, but not in *Austria*, *where radios with country switches are generally not allowed to be used.*

Residents of Spain, Switzerland and Italy need a CB license in their home country, while travellers from other European countries may use their radio during travelling in these countries free of license and charges (in UK travellers are only allowed to use 40 FM). The new Europe wide CEPT ECC DEC 11 (03) is in the national ratification process.

Diese Erklärung wird unter unserer alleinigen Verantwortung abgegeben. Dieses Funkgerät darf wegen der nicht harmonisierten Frequenzanwendungen in **AM + FM** in den Ländern **CH, E** und **I** von Bewohnern nur mit gültiger CB **Funkgenehmigung** benutzt werden. In **D** (80 FM, max 40 AM), **CZ** (nur 80 FM), **SK** (nur 40 FM + 70- 80) **BG, EST, F, FIN, GR, IRL, LV, NL, P** und **PL** (40/40) ist der CB Funk anmelde- und gebührenfrei. Dabei ist In Deutschland ist mit der Programmierung **80/40 der ortsfeste** Sendebetrieb auf den Kanälen 41 - 80 in bestimmten Regionen entlang der Grenzen der Bundesrepublik Deutschland (außer zu CZ) nicht oder nur mit Sondergenehmigung gestattet.

Mit der Programmierung 40 FM darf dieses Gerät in allen EU Mitgliedsstaaten + Island, Norwegen, Kroatien (außer Österreich, dort ist der Betrieb von CB Funkgeräten mit Länderumschaltung generell nicht erlaubt) anmelde- und gebührenfrei betrieben werden. Bewohner der Schweiz. Liechtensteins, von Italien und Spanien benötigen in ihrem Heimatland eine Genehmigung (CB-Lizenz). Die vorübergehende Benutzung durch Reisende aus anderen europäischen Ländern ist jedoch in diesen Ländern anmelde- und gebührenfrei erlaubt (in GB jedoch nur in FM). Mitführen der Circulation Card für Reisende aus Deutschland ist empfohlen in Spanien, Finnland, der Schweiz und Liechtenstein.

Die europaweit gültige CEPT / ECC DEC 11 (03) ist zur Zeit noch in nationaler Umsetzung.

Alan Electronics GmbH declara, bajo su responsabilidat, que este aparato cumple con lo dispuesto en la Directiva 99/05/CE, del Parlamento Europeo y del Consejo de 9 de marzo de 1999, transpuesta a la legislacion espanola mediante el Real Decreto 1890/2000, de 20 de noviembre.

W. Solwovenberg

Point of contact/Ansprechpartner: Dipl.-Phys. Wolfgang Schnorrenberg

Place and date of issue:

Dreieich/ Lütjensee, 18. 08. 2011

Albrecht Radio Passport

For your AE 6790 the following **programming and Operation regulations** apply (subject to change, as per August 2011) in countries applying R&TTE directive:

Country	Programming	Registration and Licensing Obligation			
Operation of Radio Equipment with Registration Obligation and/or Limitations					
Italy	40 FM or 40/40	Registration for residents necessary			
Austria	40 FM	Radios with country switches are generally prohibited in Austria. Ask your dealer for the version limited to 40 channels FM			
Switzerland/ Liechtenstein	40/40 or 40 FM	Registration and monthly fees for residents of Switzerland and Liechtenstein			
Spain	40/40 or 40 FM	Registration and periodical fees for residents			
Operation of Radio Equipment without Registration Obligation					
Belgium	40 FM 40/40	Registration and license-free for all users			
Germany	40 FM, 80/40, 40/40	Registration and license-free for all users, except for stationary operation on channels 41-80 in certain regions along the borders (except to CZ).			
Denmark, Lithuania	40 FM	Registration and license-free for all users			
Finland	40/40 and 40 FM	Registration and license-free for all users			
France	40 FM and 40 AM	Registration and license-free for all users			
Greece	40 FM and 40 AM	Registration and license-free for all users			
UK	40 FM	Registration and license-free for all users			
Ireland	40/40 and 40 FM	Registration and license-free for all users			
Iceland	40 FM	Registration and license-free for all users			
Italy	40/40 and 40 FM	Registration and license-free for transients			
Luxembourg	40 FM	Registration and license-free for all users			
Netherlands	40/40 and 40 FM	Registration and license-free for all users			
Norway, Malta	40 FM	Registration and license-free for all users			
Bulgaria, Estonia, Latvia, Poland, Portugal, Romania	40 FM and 40 AM	Registration and license-free for all users			
Sweden, Slovenia, Croatia	40 FM	Registration and license-free for all users			
Switzerland and Liechtenstein	40 FM and 40 AM	Temporary use on journeys registration and license- free			
Spain	40 FM and 40 AM	Temporary use on journeys registration and license- free			
Slovakia	40 FM + channels 70-80	Registration and license-free for all users			
Czech Republic	80 / 40 switch setting, but not using 40 AM	Registration and license-free for all users			
Hungary, Cyprus	40 FM	Registration and license-free for all users			

Europe-wide use if setting \boldsymbol{E} according to the new CEPT / ECC decision 11 (03) with 4 Watts AM and 4 Watts FM on 40 channels is currently in all CEPT countries in national implementation phase and cannot be considered in this device ID.

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