

NEW

**ALCON**

MIDDLE  
RANGE RF  
TELECOM  
SYSTEM

STATION TO STATION ● STATION TO MOBILE



# ***OPERATION GUIDE***



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## ALCON-7 OPERATION GUIDE

**ALCON- SPECIAL TELECOMMUNICATIONS CO., LTD.** a professional maker of high quality communication equipment, is proud to present its newest model : ALCON-7 Pointto point / point to Mobile cordless telephone system. This ALCON product will give you years of performance if you read and follow carefully the instructions contained in this manual.

# FEATURES:

- ◆ POINT-TO-POINT OR POINT-TO-MOBILE USE
- ◆ HIGH PERFORMANCE
- ◆ UNIVERSAL INTERFACE ON THE REMOTE/MOBILE FOR FAX / DATA OR OTHER TELECOM EQUIPMENT USE
- ◆ ECONOMICAL AND EASY TO USE
- ◆ EXCELLENT SIGNAL QUALITY FOR LONG RANGE USE
- ◆ RF STABILITY & DURABILITY
- ◆ SCRAMBLER FUNCTION
- ◆ 40 CHANNELS FREQUENCY AUTO SCAN
- ◆ TWO-WAY PAGING & INTERCOM
- ◆ MODULAR DESIGN

## STANDARD PACKAGE

### ALCON-7 BASE UNIT AND REMOTE / MOBILE

#### *Standard Accessories for ALCON-7 S.S.*

Base Unit	x 1	5DFB 20m Cable	x 2
Remote / Mobile Unit	x 1	AT-526 Normal Telephone	x 1
Switching Adaptor	x 2	User's Manual	x 1
A-7 Antenna	x 2		



**Standard Accessories for ALCON-7 S.M.**

Base Unit	x 1
Remote / Mobile Unit	x 1
Switching Adaptor	x 1
5DFB 20m Cable	x 1
A-7 Antenna	x 1
AT-80 Telephone	x 1
1/2 λ Car Antenna	x 1
Magnetic Car Antenna Mount	x 1
DC Cord	x 1
User's Manual	x 1



# FUNCTION KEYS :

Base Unit	REDIAL FLASH HOLD CONF 📢	Redial Key Flash Key Hold Key Three-Way Conference Call Speakerphone Key
Remote/Mobile Unit	Scramble Intercom	Scramble Key Intercom Key



# ANSWERING A CALL

## ANSWERING WITH THE ALCON-7 Remote Unit

Make sure the Remote POWER switch is ON.



1. When a call comes in, the Normal Telephone will ring.  
*The TEL indicator will flash.*
2. Pick-up the handset of the Normal Telephone and begin your conversation.  
*The TEL indicator will illuminate.*
3. Hang up .

## ANSWERING WITH THE BASE UNIT

There are two methods to answer a call with the base unit:



### A. Picking up the Handset from the Base Unit

### B. Using the Speakerphone (Hands-Free)

#### A. Picking up the Handset from the Base Unit


1. When a call comes in, the base unit will ring.  
*The dialing buttons and TEL indicator will flash.*
2. Lift the handset from the base unit to answer a call.  
*The TEL indicator and dialing buttons (green light) will illuminate.*
3. To hang up, return the handset to the base unit.

#### B.Using the Speakerphone

1. When a call comes in, the base unit will ring.  
*The dialing buttons and the TEL indicator will flash.*
2. Press  or any key to answer the call.  
*The TEL indicator, dialing buttons (green light) and (red light) will illuminate.*
3. Press  to hang up.



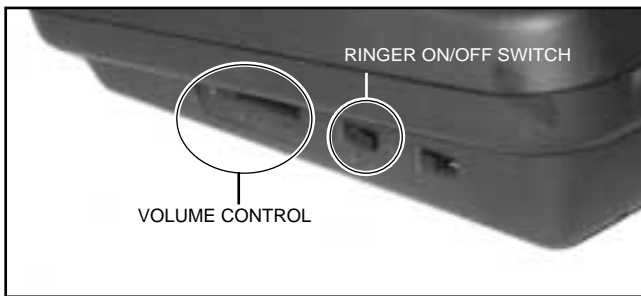
### NOTE :

- If you use the speakerphone (hands-free) on the base unit to talk without pressing  again after finishing a conversation, the telephone line will remain busy.
- If the base TEL indicator or digit buttons are illuminated, that represents a certain remote/mobile is in use.

## SPEAKERPHONE AND BASE RECEIVER VOLUME ADJUST

There is a VOLUME control on the right side of the base unit. Adjust it upward to increase the volume or downward to decrease the volume.

## RINGER VOLUME CONTROL



Set the RINGER switch on the middle right side of the base unit to ON (up) or OFF (down).

## SCRAMBLE FUNCTION

To prevent somebody from eavesdropping on your conversation, use the Scramble function. .



1. Press the Scrambler button located on the front of the remote unit to engage the scramble function. When the SCRAM indicator is illuminated, the scramble function has engaged.
2. Press the Scramble button again to disengage the scramble function. When the SCARM indicator is not illuminated, the scramble function has been disengaged.

### NOTE :

- If there is blackout when the system had the Scramble Function engaged or disengaged, the system will always return to that setting when the power returns.
- The system should be in standby mode to engage or disengage the scramble function.

# PLACING A CALL

## Remote / Mobile UNIT

Switch the Remote/ Mobile unit ON (the POWER indicator should illuminate), making sure that the telephone cord is plugged into the house socket.

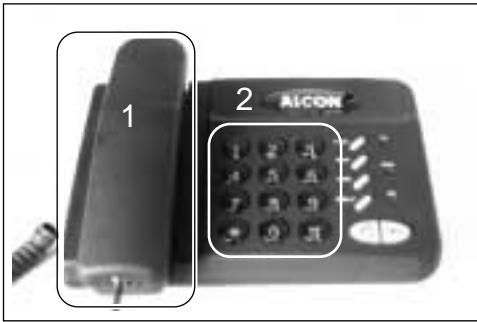


the telephone cord is plugged into the house socket.

1. Pick up the telephone handset of the normal telephone and check if there is dial tone.  
*The TEL indicator will illuminate.*
2. Dial the number you wish to call.
3. Hang up the handset when you have finished the call.

## BASE UNIT

There are two methods to place a call using the base unit.



### A. Picking up the Receiver from the Base Unit

1. Listen for a dial tone by lifting the Receiver from the base unit.

*The TEL indicator and dialing buttons (green light) will illuminate.*


2. Dial the number you want to call.


*When you press the digit buttons, the buttons that are being pressed will turn from green to red.*


3. Return the Receiver to the base unit after finishing a conversation.



### B. Using the Speakerphone

1. Press  to get a dial tone.

*The TEL indicator, dialing buttons (green light) and  (red light) will illuminate.*

2. Dial the number you want to call.
3. Press  again to hang up.

## NOTE :

- 1 When the Base unit of the Remote/ Mobile unit is used for an outside call, the other users in the system do not have access to the system.
- 1 There is a MUTE button on the right side of the Remote/ Mobile unit. The person who is on the other side of the conversation won't be able to hear you if this button is pushed activating this function.

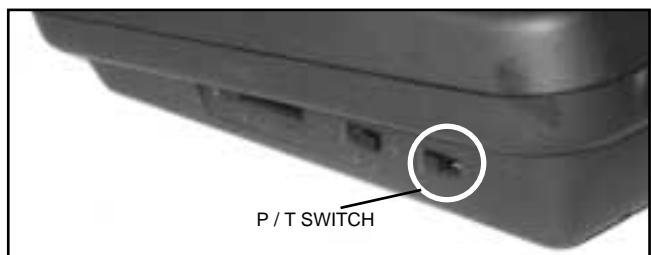
## TONE / PULSE MODE PROGRAMMING

### Base Unit

There is a P / T Switch on the upper side of the base unit. You can switch the unit to the P (Pulse) or T (Tone) telephone system depending on which one you use in your country.

### Remote/Mobile Unit

The Remote/Mobile Unit only has T (tone) mode.





# INTERCOM FUNCTION

{BETWEEN REMOTE/ MOBILE UNIT AND BASE UNIT}

## A : Remote / Mobile CALLING BASE UNIT

### Remote / Mobile



1. Press INTERCOM. The base will emit two short “beeps”.

*The Remote/Mobile unit INT indicator will begin to flash.*

2. Lift the telephone handset and wait for somebody to activate the Base Unit.

*Once the Base unit is in use, the INT indicator will continuously illuminate.*

3. To finish the conversation, return the handset to the Base unit.

### Note :

1. If you press INTERCOM without picking up the handset of the normal telephone and the Base unit user picks up their handset, the Remote/Mobile unit will emit a quick beeping sound.



### Base Unit

1. The base unit will ring.

*The INT and CALL indicator will illuminate and the representative no. of Remote/ Mobile (no.1) unit will flash.*

2. Press any key or lift the receiver from the base unit to answer the call.

*The INT, CALL, and dialing buttons will illuminate during the conversation.*

3. To finish the conversation, press CALL or return the receiver to Base unit and hang up the telephone handset of Remote/ Mobile unit.

## B : BASE CALLING REMOTE / MOBILE UNIT



### Base Unit

1. Press CALL.

*The CALL indicator will illuminate.*

2. Press digit No. 1 (this represents the Remote/ Mobile unit).

*The CALL indicator will illuminate and digit No. 1 will flash.*

*The CALL and the digit button no. 1 will continuously illuminate during the conversation call.*



### Remote/ Mobile unit

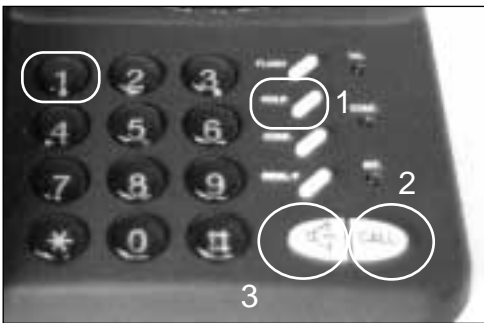
1. The Remote/ Mobile unit will ring.  
*The INT indicator will flash. This means that the Base unit is calling the Remote/ Mobile unit.*
2. Once you lift the telephone handset, you can begin your conversation .  
*The INT indicator will continuously illuminate.*
3. To finish the conversation, press CALL or hang up the telephone handset of Remote/ Mobile unit.

### NOTE :

- 1 When the distance between Remote/ Mobile unit and Base unit is too far, the INT indicator will flash several times without ringing.

## TRANSFERRING CALLS

### FROM BASE UNIT TO Remote/Mobile {Base Unit Answering or Placing a Call}



### Base Unit

1. Press HOLD.  
*The call will be put on hold automatically.*
2. Press CALL.  
*The CALL indicator will illuminate.*
3. Press the digit button no. 1 to call the Remote/ Mobile unit.  
*The digit button no. 1 will flash and that means the Remote/ Mobile unit is being called. Remote/ Mobile Unit*



### Remote/Mobile

- 1.The Remote/ Mobile unit will ring.  
*The INT indicator will flash and the telephone set will ring.*
- 2.Pick up the telephone handset to begin the conversation.  
*The INT indicator will illuminate during the conversation.*
- 3.To hand up, press CALL or return the telephone handset.  
 The Base unit will return to Standby mode.  
*The TEL indicator on the Base unit will flash.*
- 4.The Remote/ Mobile unit can answer the call that is on hold.  
*The Remote/Mobile unit TEL indicator will illuminate.*

# 3-WAY CONFERENCE CALLS

## BETWEEN THE BASE UNIT AND REMOTE/ MOBILE UNIT AND OUTSIDE CALL OR

### BASE UNIT CALLING THE REMOTE UNIT DURING AN OUTSIDE CALL



#### Base Unit

1. Press Hold button.  
*The TEL indicator will flash.*
2. Press CALL.  
*The CALL indicator will illuminate.*
3. Press 1 (it means calling the Remote/ Mobile unit)  
*The CALL indicator will illuminate and the digit button no. 1 will flash. They will illuminate during the conversation.*

#### Remote/Mobile

1. The telephone set of Remote/ Mobile unit will ring.  
*The INT indicator will flash and this means the Base unit is calling.*
2. Pick up the telephone handset to answer the call.  
*The INT indicator will illuminate.*
3. After answering the call, press CONF on the base unit to activate the three-way conference call.  
*The CONF key will illuminate.*

#### NOTE :

- When 3-way conference call is finished and the user of Remote/ Mobile unit still wants to keep talking with outside caller, just return the receiver to Base unit to activate the conversation. To hang up, return the handset to telephone set.
- When 3-way conference call is finished and the user of Base unit still wants to keep talking with outside caller, just return the handset to telephone set. If the user of Base unit is lifting the receiver now, the person could talk to outside caller automatically; if the user of Base unit is using Speakerphone, the person should press again or lift the receiver to continue the conversation.
- When 3-way conference call is finished and the users of Base and Remote/Mobile unit don't want to continue the conversation any more, just return the telephone handset and receiver back to hang up.

# REDIAL FUNCTION

You can redial the last telephone number dialed automatically {after getting a busy signal, for instance}



## Base Unit

1. Pick up the receiver of the base unit or press to get a dial tone.

*The TEL key will illuminate. If you use, it will illuminate as well.*

2. Press REDIAL.

*The last telephone number dialed from the handset will be dialed out automatically.*

## Remote/ Mobile Unit

It depends on whether the telephone set that is being used with the Remote/Mobile Unit has this function.

### NOTE:

- When you push to talk, the telephone line will remain busy if you do not push it again after ending the conversation.

# HOLD FUNCTION

You can hold a call during the conversation.



## Base Unit

1. Press HOLD to place a call on hold.

*The person who is on the other side of the conversation will hear an on-hold melody. The TEL key will flash.*

2. Pick up the handset from the base unit or press to continue the conversation.

*The TEL key will illuminate. { If using , it will illuminate as well }.*

## Remote/ Mobile Unit

It depends on whether the telephone set that is being used with the Remote/Mobile Unit has this function.

### NOTE:

- When you push to talk, the telephone line will remain busy if you do not push it again after ending the conversation.

# FLASH FUNCTION

The FLASH button can be used to get a new dial tone without pressing ✂.

You can also use the flash function to obtain special services, such as Call Waiting from your local PTT or PBX.



## If you subscribe to “Call Waiting” :

1. When a call comes in when you are in an outside call conversation, you will hear a soft “do-do” sound.
2. Press FLASH. The first caller is put on hold and you can converse with the second caller.
3. Press FLASH again to talk to the first caller. The second caller is then put on hold.

### NOTE :

- If your telephone company offers special services such as “Call Waiting”, the FLASH button is unable to activate a new dial tone. The flash time for this system is 0.6 seconds.

# TEMPORARY TONE DIALING

If your home is equipped with pulse dialing and your telephone is set to the pulse mode, you can still change it to the tone dialing mode temporarily. This allows you to access special services available to tone systems (e.g., electronic banking systems and remote-control answering machines).

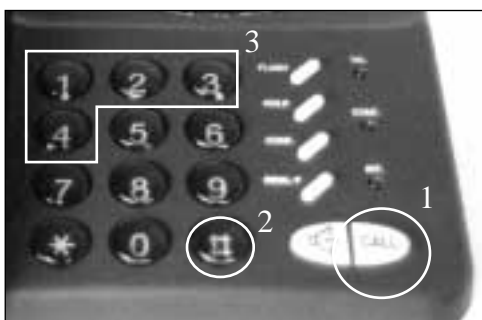
1. Dial the number you want to call.
2. When your call goes through, press \* .

### NOTE:

- The telephone will stay in the tone mode until the call ends, then it will returns to the pulse mode automatically.

# Setting a Representative number for Remote/ Mobile Unit

Setting your Remote/ Mobile unit representative number on the Base unit.



## Before setting

- Set the POWER switch of Remote/ Mobile unit to OFF.

## Base Unit

1. Press CALL of the Base unit (indicator will illuminate), and then #. Press the digit button No. which you want the Remote/ Mobile unit to be represented by (No.1-4).

*The digit button indicator (red light) will flash.*

**NOTE :**

- Once you press the digit button, you must complete the following procedures within 5 seconds to successfully complete the procedure.



**Remote/ Mobile Unit**

2. Press INTERCOM (without letting go) and switch POWER to ON. The POWER, TEL, IN USE, INT, and SCRAM indicator will illuminate meaning that your procedure has been successfully completed.
3. Switch POWER of Remote/ Mobile unit to OFF, and then switch to ON.
4. Pick up the telephone handset and see if the digit button flashed is the number you setup.

**NOTE :**

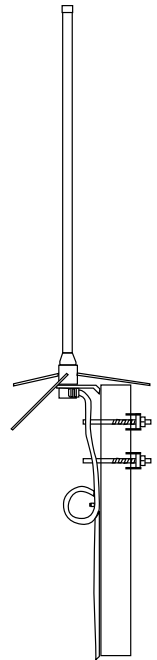
- If there is anything wrong in the setting process, please operate the whole procedure from the beginning to end.

## ANTENNA INSTALLATION INSTRUCTIONS

**(A) INSTALLATION OF 20M COAXIAL CABLE AND A-7**

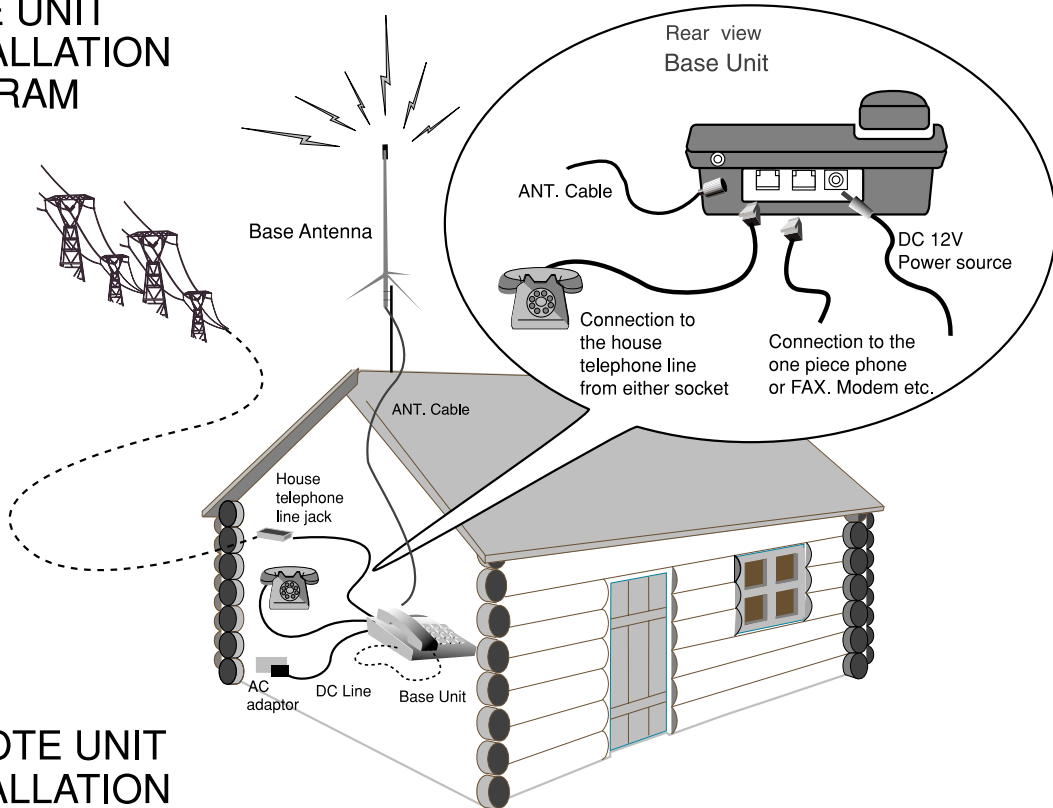
**ANTENNA:**

1. Attach the L-type bracket to a bamboo or iron antenna mast as shown in figure
2. Mount the A-7 antenna onto the L-type bracket threading the male cable connector of the A-7 antenna through the hole located on the L-type bracket. Screw the nut included onto the A-7 male cable connector to secure the A-7 antenna firmly onto the L-type bracket.
3. Mount the bamboo or iron antenna mast securely. Run and fix coaxial cable securely to the antenna mast and connect the female coaxial cable connector to the A-7 male cable connector. When doing this, make a 20 cm loop cable loop for convenience purposes and then connect the TNC male connector of the coaxial cable to the TNC female connector of base unit.



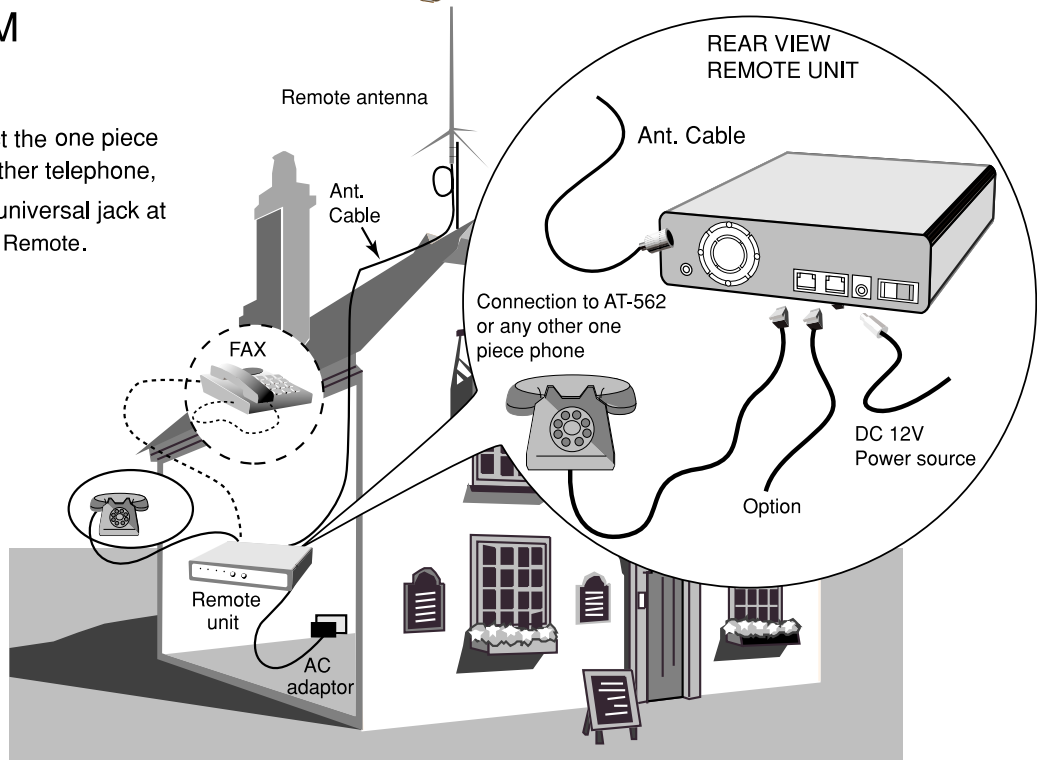
# ALCON-7 STATION TO STATION INSTALLATION DIAGRAM

## BASE UNIT INSTALLATION DIAGRAM



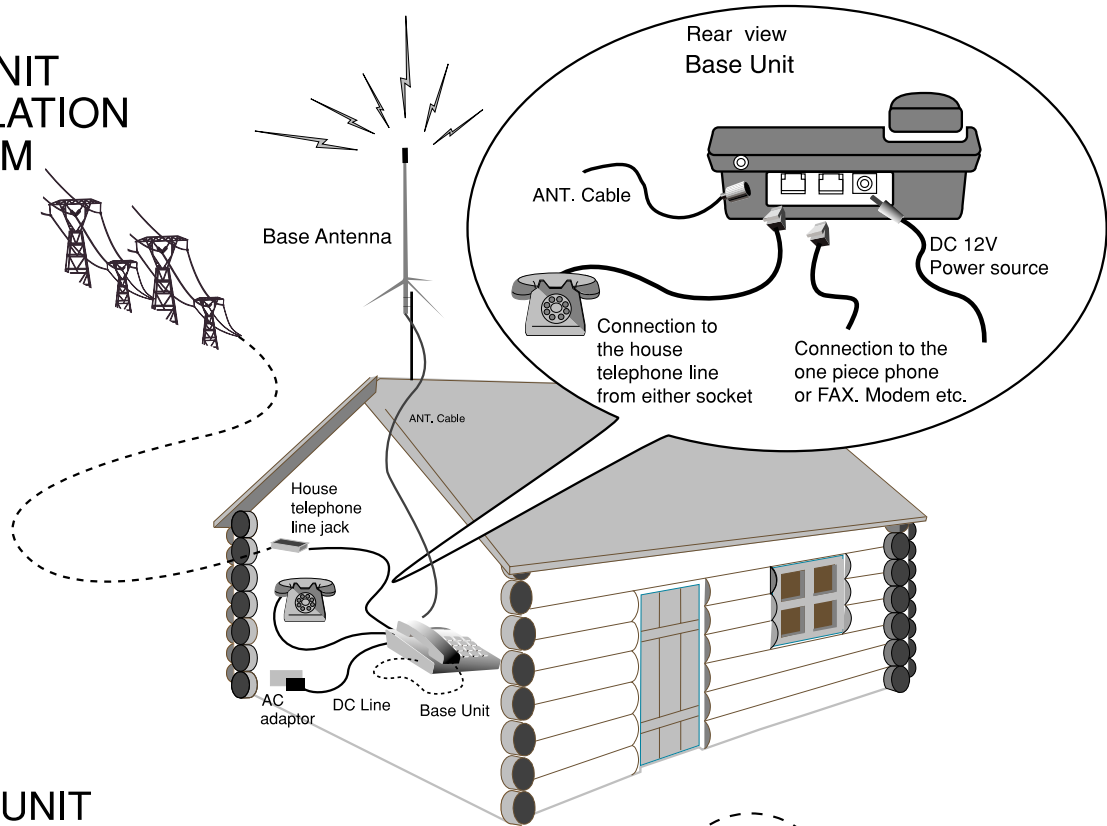
## REMOTE UNIT INSTALLATION DIAGRAM

Note :  
 You can connect the one piece phone or any other telephone, Fax etc. to the universal jack at the back of the Remote.

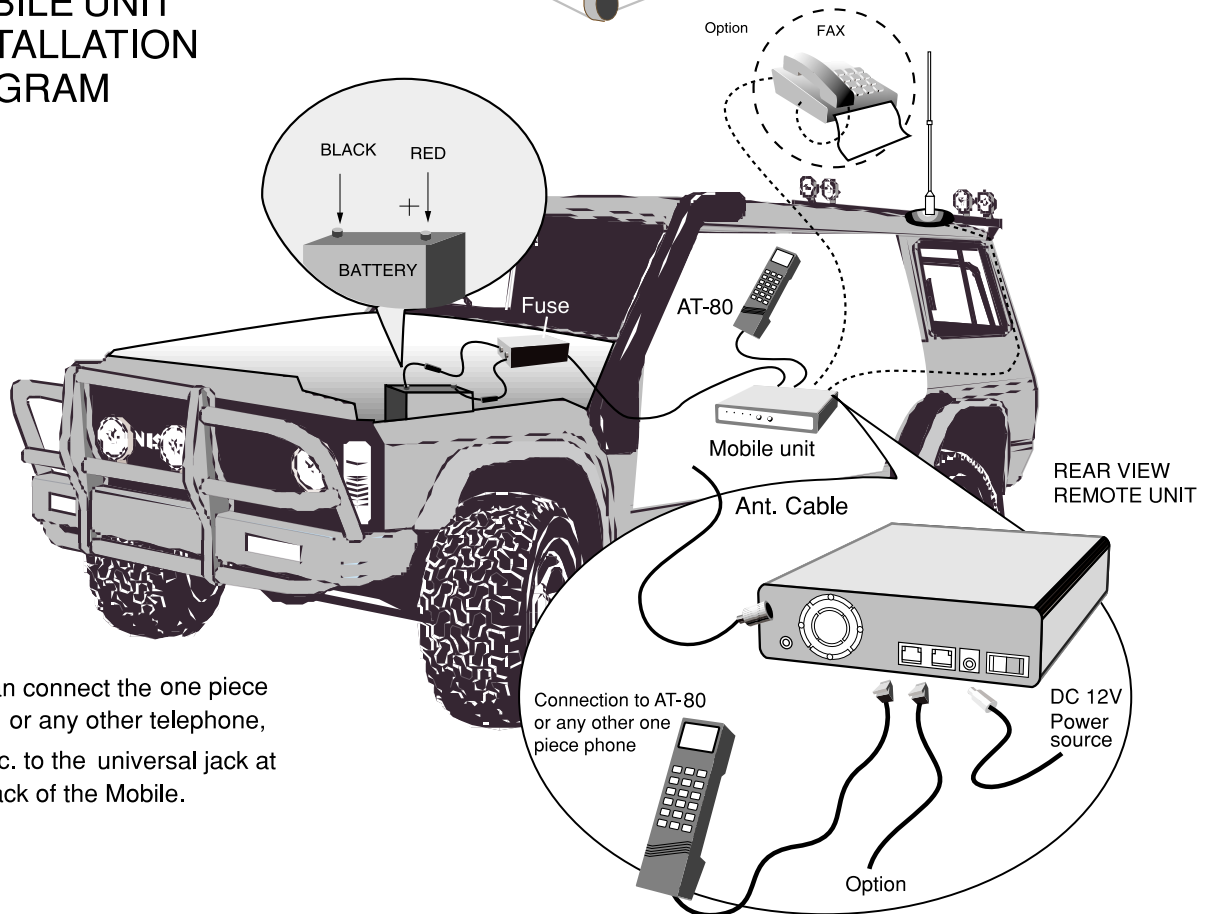


# ALCON-7 STATION TO MOBILE INSTALLATION DIAGRAM

## BASE UNIT INSTALLATION DIAGRAM



## MOBILE UNIT INSTALLATION DIAGRAM



Note :  
You can connect the one piece phone or any other telephone, Fax etc. to the universal jack at the back of the Mobile.