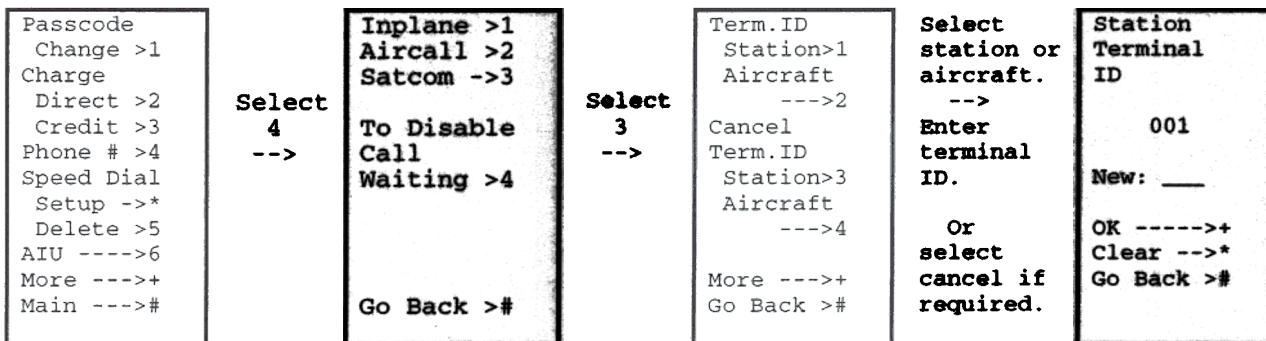


# MAGNASTAR C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

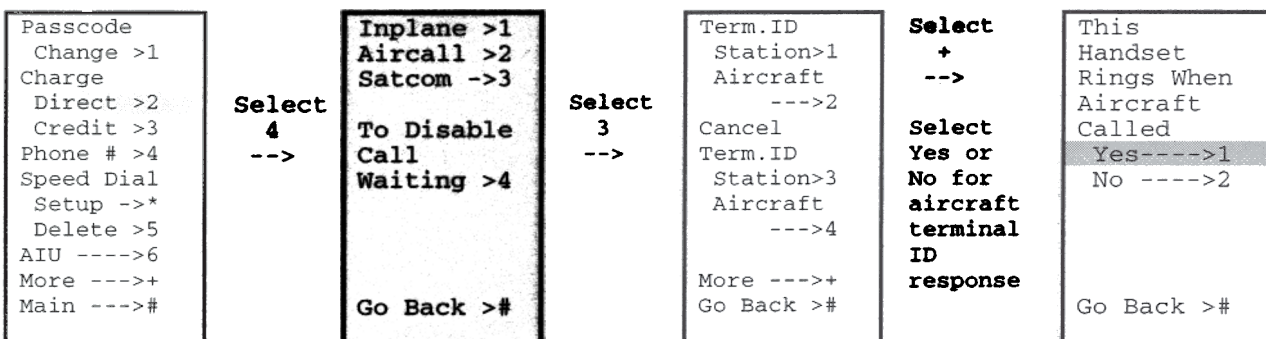
## 7.1.2.5.4 SATCOM Terminal ID's

The following screen progressions show how to enter a terminal ID number for SATCOM ground to air calling. The procedure to enter a station or aircraft terminal ID number are the same. A station terminal ID number applies, or will ring, only the associated handset being programmed. An aircraft terminal ID number applies, or will ring, all the handsets in the system. The screen progression also shows how to cancel a terminal ID number. An aircraft terminal ID is a system function and need only be programmed from one handset.



### 7.1.2.5.4.1 Disabling a Station From Ringing with a SATCOM Aircraft Terminal ID

It is possible to disable a number of individual handsets or active ports from ringing when an aircraft terminal ID number is programmed in the system. Each handset or active port that is not to respond to an aircraft terminal ID number must be programmed as such. The following screen progressions show the steps necessary to cancel an aircraft terminal ID response.



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### 7.1.2.5.5 Call Waiting

The following screen progressions show how to enable or disable the call waiting feature. Call waiting will alert the user of an additional incoming call regardless of its origin (inplane or ground initiated) while engaged in a telephone call.

```
Passcode
Change >1
Charge
Direct >2
Credit >3
Phone # >4
Speed Dial
Setup ->*
Delete >5
AIU ---->6
More ---->+
Main ---->#
```

Select  
4  
-->

```
Inplane >1
Aircall >2
Satcom ->3

To Enable
Call
Waiting >4

Go Back >#
```

The Call Waiting feature may be toggled to display enable or disabled by entering a keypress of 4.

Warning: The Enable or Disable shown on the screen describes the state the system will be placed when a 4 is pressed. The example screen indicates that call waiting is disabled.

### 7.1.2.5.6 Speed Dial

The following screen progressions show how to enter speed dial numbers. The following items are to be entered. The three digit speed dial number (\*510 through \*549), a phone number and a 10 character label. The label is an optional entry.

```
Passcode
Change >1
Charge
Direct >2
Credit >3
Phone # >4
Speed Dial
Setup ->*
Delete >5
AIU ---->6
More ---->+
Main ---->#
```

Select  
\* for  
Speed  
Dial  
Set-up  
-->

Select  
5 to  
delete  
a  
number

```
Enter
dialing
sequence.

Svc+Number

1+8882467
827_____

OK ----->+
Clear -->*
Go Back >#
```

Enter  
the type  
of service  
(1= voice,  
3= Fax,  
4= Modem)  
followed  
by the  
number to  
be dialed.  
Then enter  
+ for OK.  
-->

```
Enter 3
digit
speed dial
number
510-549

510

OK ----->+
Clear -->*
Main ---->#
```

Enter the three  
digit speed dial  
number in the  
510-549 range.  
Then enter + for  
OK.

-->

```
You may
enter a 10
character
label.

_____
^

Cursor ->*
OK/Next >+
OK/Main >#
Help ---->0
```

Enter a 10  
character label  
for the entered  
speed dial  
number.

Select 0 to  
view the help  
screen -->

```
Press '5'
to pick a
character
list.

Press '6'
or '4' to
move up or
down the
list.

Go Back >#
```

Select +  
to save  
the speed  
dial entry

```
You may
enter a 10
character
label.

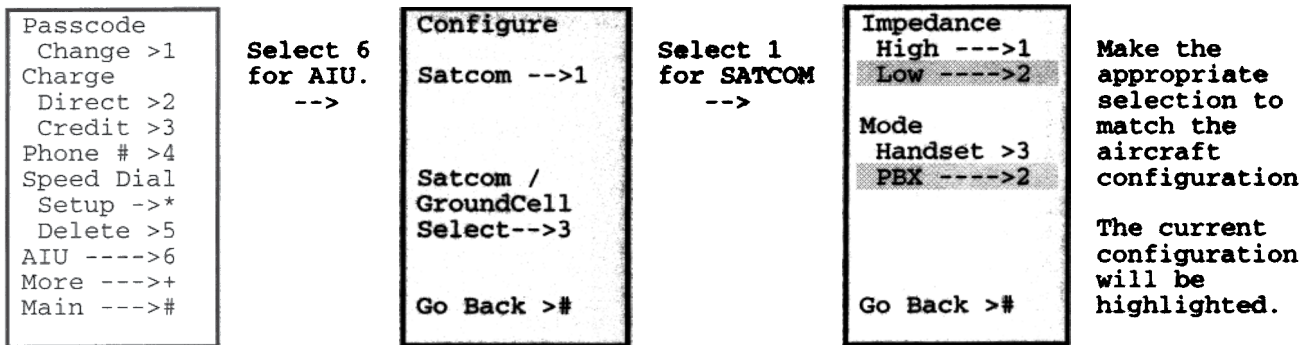
Star Line
^

Cursor ->*
OK/Next >+
OK/Main >#
Help ---->0
```

### 7.1.2.5.7 AIU Configuration - SATCOM

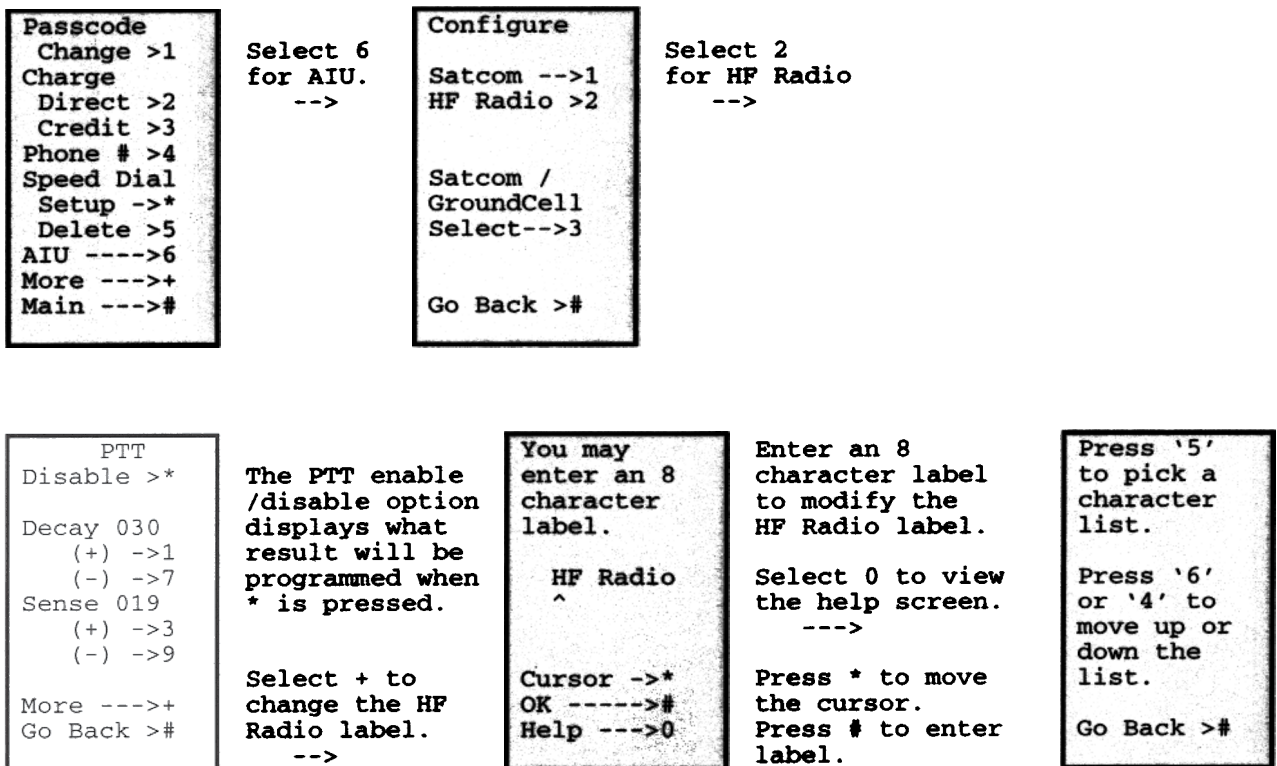
The following screen progressions show the options available for configuring the AIU when used with an analog SATCOM system. The AIU SATCOM features include two different impedance configurations and two possible interface modes of operation. The two different impedance configurations are High Impedance (WH-10 type) and Low impedance (600 ohm). The two different modes of operation are Handset and PBX. The Handset mode provides no feedback to the user on the LCD display and operates strictly as a handset would. In the PBX mode the handset provides the user with feedback information on the handset LCD display providing the dialed number and call progress information. This mode is only valid for those SATCOM systems which support handset PBX functions.

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## 7.1.2.5.8 AIU Configuration - HF Radio

The following screen progressions show the options available for configuring the AIU when used for HF Radio or other analog audio type interfaces. The AIU HF Radio function features the ability to enable/disable the voice operated (VOX) push to talk (PTT) switch function. Disabling the PTT will automatically connect the handset microphone to the AIU analog audio output when the HF Radio (or other label name) option is selected by the user. There are also two audio adjustments that can be made from these screens. The Decay adjustment will vary the amount of time that the PTT will be kept active after the analog input falls below the VOX threshold. The Sense adjustment will vary the sensitivity of the VOX PTT. All three of these options are system functions and as such only need to be programmed from one handset. It is possible to assign a label other than HF Radio. The HF Radio label is the system default label.



## 7.1.2.6 Maintenance Screen #2

The second maintenance screen allows the user to change the station setup, to enable/disable the handset ringer, to select the dialing plan, select the system default link, select the station MODEM default baud rate and to enable/disable MODEM call hand-offs.. The second maintenance screen is shown below:

**MAGNASTAR C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM**

Passcode  
Change >1  
Charge  
Direct >2  
Credit >3  
Phone # >4  
Speed Dial  
Setup ->\*  
Delete >5  
AIU ---->6  
More --->+  
Main --->#

**Select + to reach the  
second maintenance screen  
from the first.**  
---->

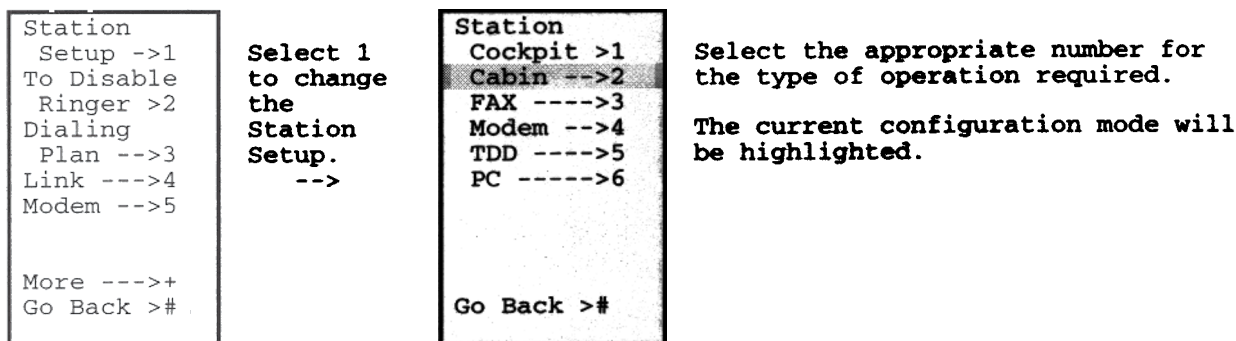
Station  
Setup ->1  
To Disable  
Ringer >2  
Dialing  
Plan -->3  
Link --->4  
Modem -->5  
  
More --->+  
Go Back >#

# MAGNASTAR C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

## 7.1.2.6.1 Station Setup

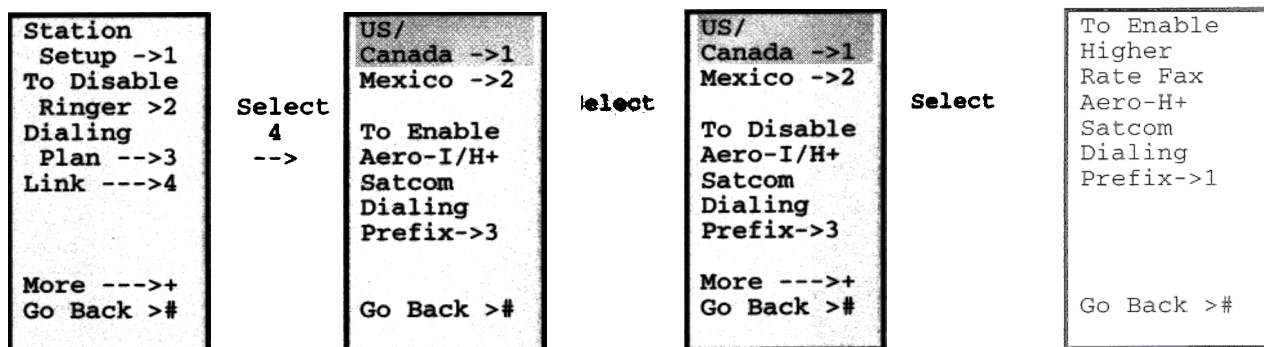
A MagnaStar digital handset when connected to the LAN is considered a station. It is possible to configure a handset for different types of operation or station types. A Cabin station is the system default mode and is considered the normal condition. A Cockpit station is the same as a Cabin station except for operation when the system Billing mode is configured for credit card. If the system Billing mode is set for credit card use, then any handset configured as a Cockpit station will bill the aircraft account and not require the use of a credit card. There is no limit on the number of handsets that can be configured as Cockpit stations.

A digital handset can also be configured as a FAX, Modem, TDD or PC station. These station types configure the use of the RJ-11 jack on the handset. Configuring a handset as a Fax, Modem or TDD station has the following effect; when using the RJ-11 jack, the phone number can be directly dialed from the connected device rather than using the handset keypad. Also, because the device type or call type is identified, only the ten digit number needs to be dial (for domestic calls). When configured as a PC station, any dialing activity on the RJ-11 jack must be preceded by a "3" or "4" prefix to identify the type of operation; Fax (3) or Modem (4). Both functions can be used as long as the prefix identifies the type of operation. The handset does not have to be taken out of the bezel (or taken off hook) to be use when a handset has been programmed as a Fax, Modem, TDD or PC station. Only one digital handset in a system can be configured as a Fax, Modem, TDD or PC station.



## 7.1.2.6.2 Select Aero-H or Aero-I SATCOM Service

A user may select the Aero-H SATCOM service, instead of Aero-I SATCOM service for FAX calls. If both services are available (Aero-H+), SDUs (Satellite Data Units) manufactured by Collins and Honeywell default to Aero-I which supports 2400bps FAX calls. Aero-H supports 4800bps FAX calls. The higher rate SATCOM FAX mode may be enabled but should be done only for Aero-H+ SATCOM installations otherwise the SDU will reject the FAX call setup.





**MAGNASTAR C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM**

```

To Disable
Higher
Rate Fax
Aero-H+
Satcom
Dialing
Prefix->1

```

```

Go Back >#

```

✖--- The higher rate feature may be toggled to display "Enable" or "Disable" by entering a keypress of 1.

**Warning:** The Enable or Disable shown on the screen describes the state the system will be placed when 1 is pressed. This screen indicates that the higher rate FAX Aero-H+ Satcom dialing prefix is enabled.

**7.1.2.6.3 Ringer Enable/Disable**

A digital handset and the associated external call alerter switch outputs configured for that handset can be disabled.

```

Station
Setup ->1
To Disable
Ringer >2
Dialing
Plan -->3
Link --->4
Modem -->5

```

```

More --->+
Go Back >#

```

The ringer feature may be toggled to display "enable" or "disable" by entering a keypress of 2.

**Warning:** The Enable or Disable shown on the screen describes the state the system will be placed when 2 is pressed. This screen indicated that the ringer feature is enabled.

The current state of the ringer can always be viewed with the use of the information screens from the setup menu.

**7.1.2.6.4 Dialing Plan**

The C-2000 system can be configured for one of two possible dialing plans; United States & Canada or Mexico. The system is programmed not to require the user to enter dialed numbers in the international dialing format when placing calls to either the US & Canada or Mexico, dependent on the setting of the dialing plan. However, the international dialing format can always be used. The appropriate dialing format must be identified to simplify dial operation. All numbers dialed outside the identified dialing plan requires use of the international format. The dialing plan default value is US/Canada.

```

Station
Setup ->1
To Disable
Ringer >2
Dialing
Plan -->3
Link --->4
Modem -->5

```

```

More --->+
Go Back >#

```

Select 3  
to change  
the Dialing  
Plan.  
-->

```

US/
Canada ->1
Mexico ->2

```

```

To Enable
Aero-I/H+
Satcom
Dialing
Prefix->3

```

```

Go Back >#

```

Select the appropriate  
number for the required  
dialing plan.

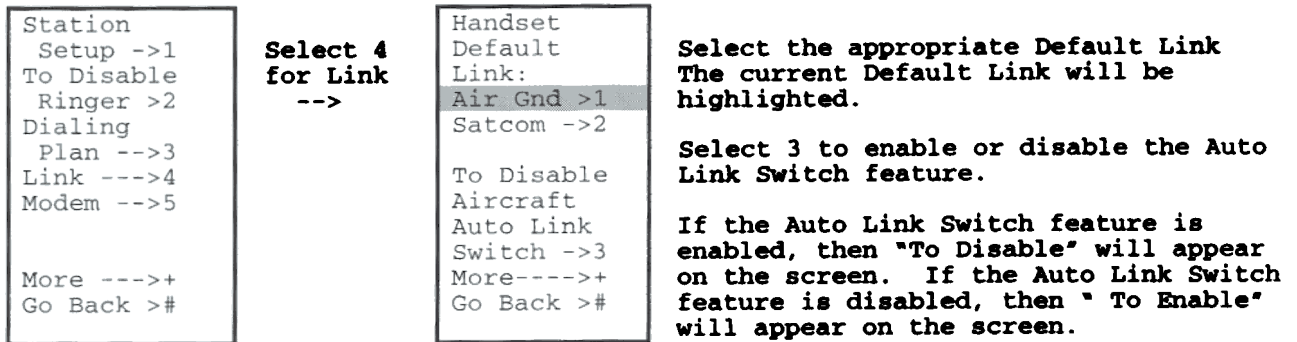
The current value will be  
highlighted.

**7.1.2.6.5 Default Link and Auto Link Switch**

## MAGNASTAR C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

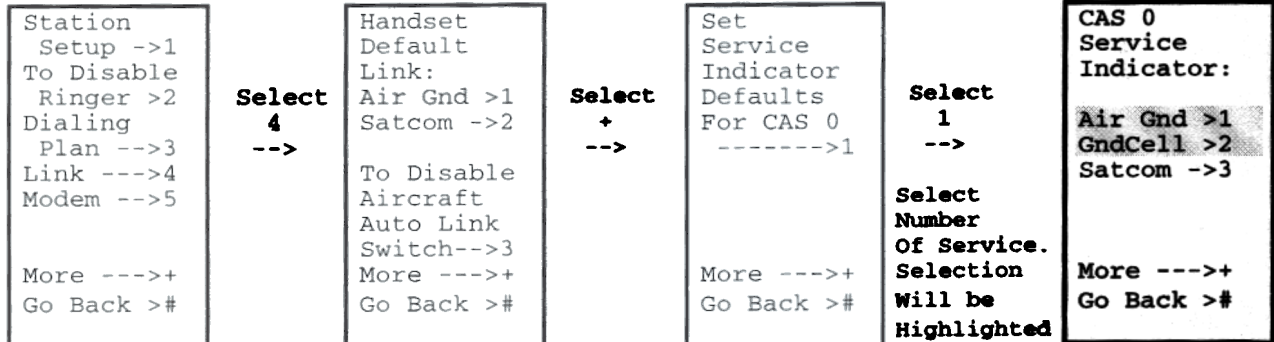
For MagnaStar systems that are interfaced to a SATCOM unit, it is possible to configure each station to use either the GTE Airfone ground network or the SATCOM satellite system as the default link. The default link is station programmable. The MagnaStar system default is the GTE Airfone system (Air to Ground).

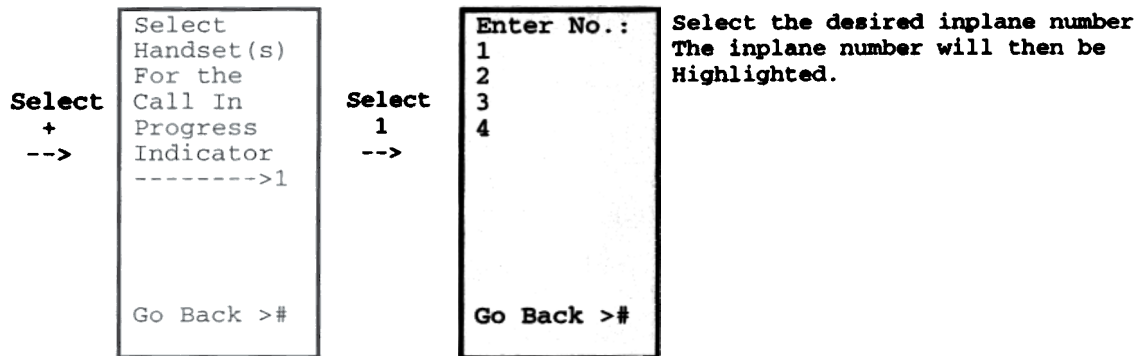
The MagnaStar system also provides the capability to automatically route calls between the GTE Airfone and the SATCOM system, if the default link is being used to capacity, or is not available for use. This feature is called Auto Link Switching. The Auto Link Switch feature is a system function and can be programmed from any one handset.



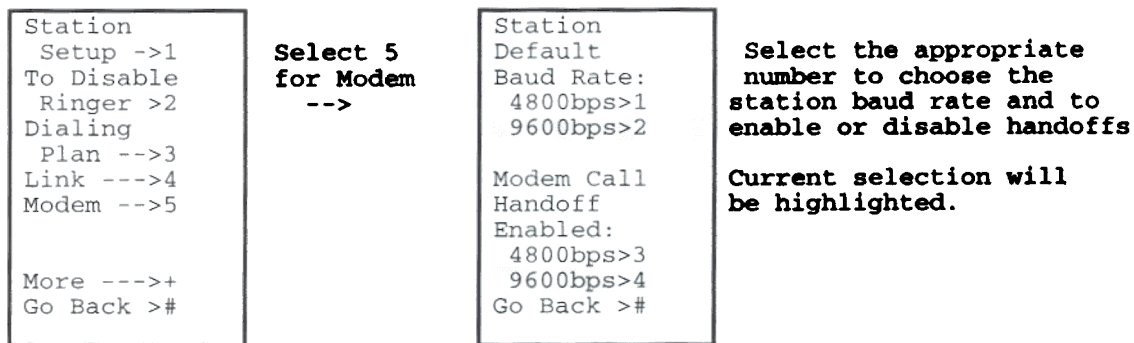
### 7.1.2.6.6 Service Availability and Call In Progress Indicators

CAS (Call Alert Switch) output switch 0 can be programmed to close to indicate when any or all of the following services are available: Air-Ground, GroundCell, SATCOM. CAS output switch 9 can be programmed to close to indicate when a selected handset(s) or CDBR-2 port(s) have a call in progress through one of the available service links. NOTE: The "In Use" indicator on the Inplane Calling Menu indicates which handsets or CDBR-2 ports are off-hook. If CAS output switches 9 and 0 are used as indicators they can not be used to signal the user of an incoming call.



**MAGNASTAR C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM****7.1.2.6.7 MODEM Settings**

4800 bps and 9600 bps MODEM call handoffs between ground stations can be independently enabled or disabled as a system function (i.e. for the entire aircraft) from a maintenance menu. 9600 bps MODEM call handoffs are enabled as the factory default and 4800 bps MODEM calls handoffs are disabled as the factory default. Each handset and CDBR-2 port may be configured independently with a different default rate (4800 or 9600 bps). **Note: Ground-Air MODEM calls (i.e. upcalls) are not supported.**

**7.1.2.6.8 Handset Attributes**

The remaining maintenance screens are referred to as handset attributes. These include gains settings, call alerter functions, and LED settings. These screen are reached by successively pressing "+" for more from the second maintenance screen.