MAGNASTAR   C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

7.0 PROGRAMMING THE MAGNASTAR SYSTEM

7.1 HANDSET CONFIGURATION SCREENS

This section provides detailed information in support of the C-2000 user guide to help the installer with the configuration programming of the MagnaStar system. Included in this section are a flow chart of the maintenance set-up screens and descriptions of the handset set-up screens. These screens apply to ARTU software version ARTCC40B.

7.1.1 CONFIGURATION SCREEN FLOW CHART

A flow chart of the MagnaStar maintenance screens is shown in this section. The flow chart is intended to provide a reference guide to help the installers quickly find the location of individual configuration screens. The flow chart includes both the set-up maintenance screens and the aircall screens.

MAGNASTAR C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM
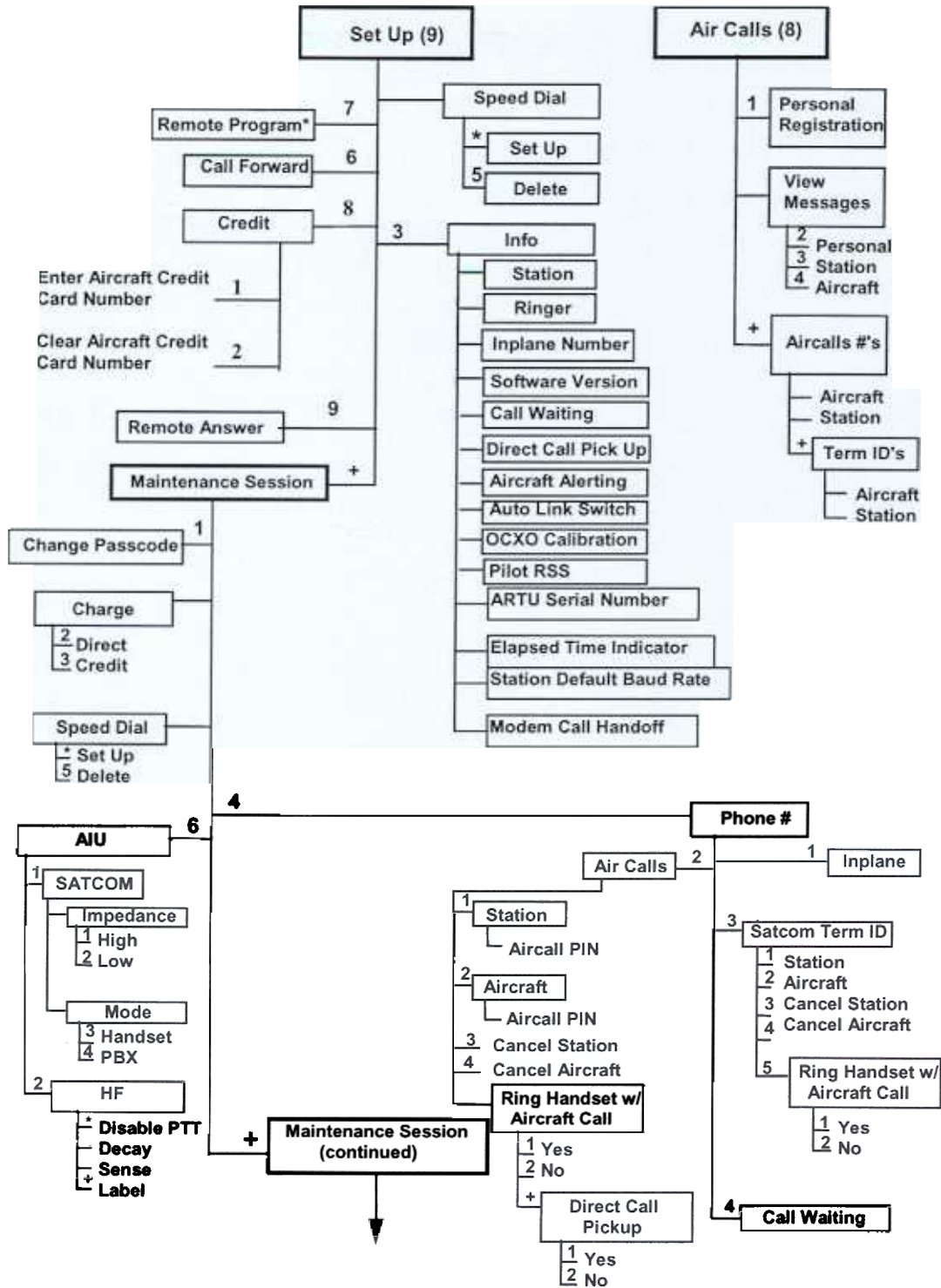
Figure 7.1.1.A. Configuration Screen Flow Chart

MAGNASTAR   C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

Figure 7.   .B. Configuration Screen Flow Chart con't.

MAGNASTAR   C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

Remote Program *

Flash Hook

Remote Station Assigned

*   Maintenance

1

Station Set Up

Station

1 Cockpit
2 Cabin

Uplink

3 Voice
4 Fax
5 TDD

4   +   5

Link (See 7.1.1.B)   Modem (See 7.1.1.B)

Auxiliary Call Alerter

* Cadence

+

Speaker Gain
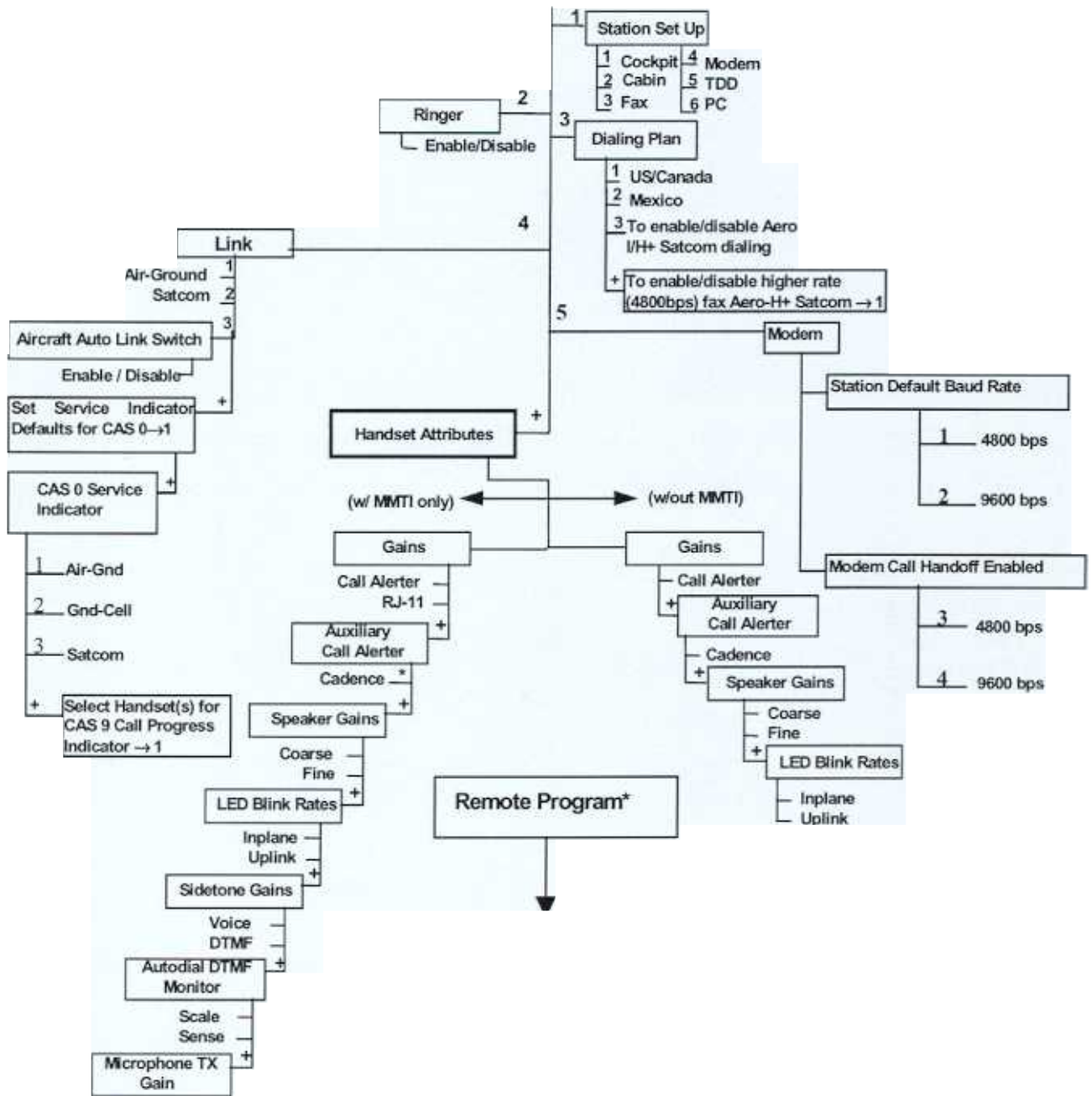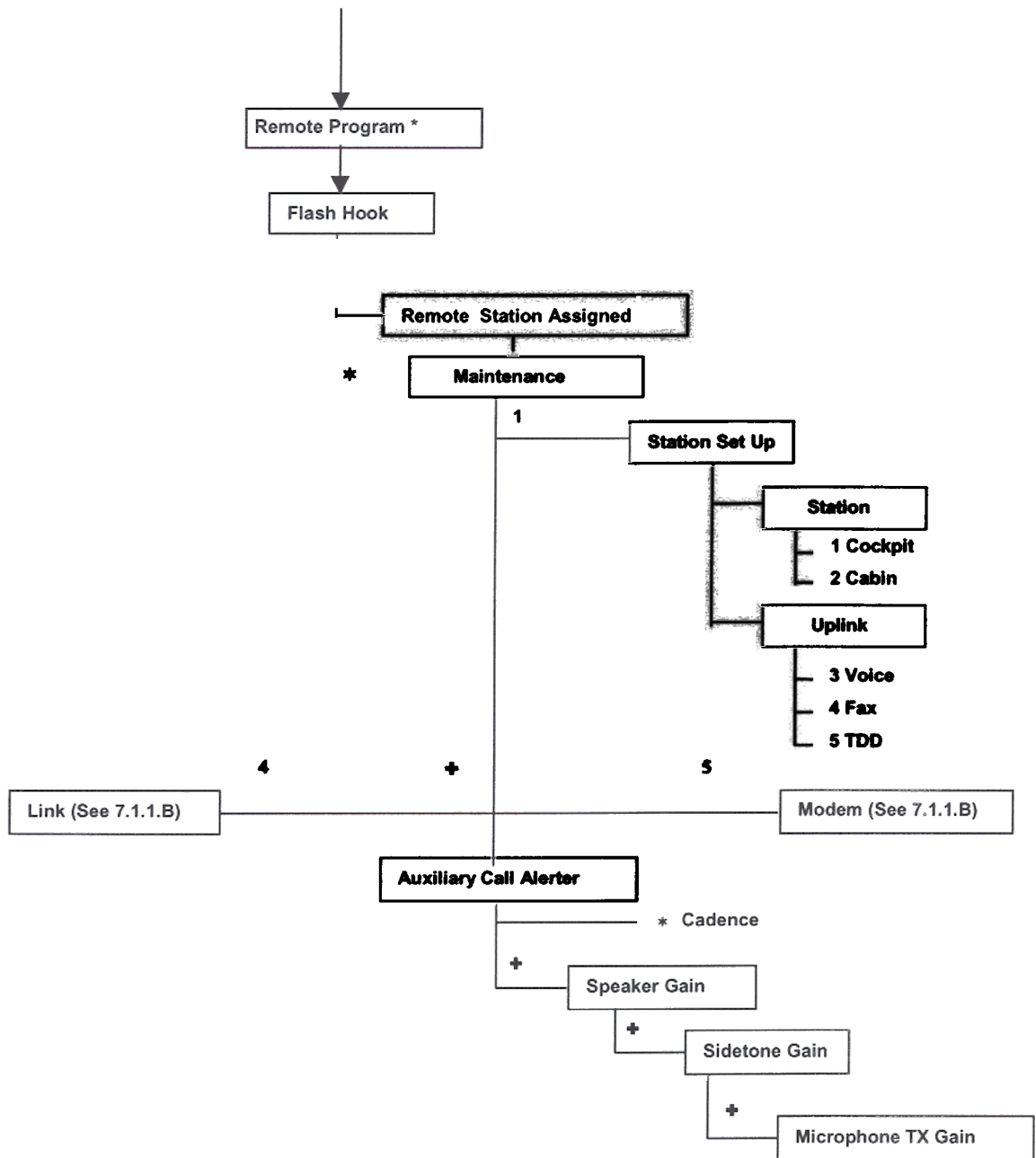
+

Sidetone Gain

+

Microphone TX Gain

Figure 7.1.1.C. Configuration Screen Flow Chart con't.

MAGNASTAR   C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

7.1.2 DETAILED CONFIGURATION SCREENS

The following section provides information about the individual configuration screens. This section is intended to provide the installer with a visual reference to the configuration screens and is supplemental information to the user guide. However it is not intended as a replacement for the user guide.

7.1.2.1 Services Screen
The following screen is the Services screen. Whenever a digital handset is in the "on-hook" configuration, the following screen will be displayed. This screen displays the calling feature that the system is configured to support; i.e. including Inplane, Air-to-Ground, GroundCell, SATCOM or HF Radio. The current default link will be highlighted. This screen may also display the text "Messages" to indicate that there are aircall number(s) stored in memory. The inplane, station aircall and station terminal ID numbers may also be displayed on the Services screen.

```
Services
Inplane
Air-Ground
GroundCell
Satcom
HF Radio
Messages
Inplane: ___
TermID: ____
       (___)
     ___-____
```

7.1.2.2 Main Menu
Taking the handset "off-hook" will place the user at the main menu screen. The main menu screen provides the user with all the calling options. Additionally, the set-up and aircall options are reached from the main menu.

A digital handset has a built in Hall Effect switch which is activated by a magnet. If a digital handset is taken out of a holder that is equipped with a magnet, then the main menu screen will appear after five seconds. However, during this five second period the main menu screen is active and numbers or functions can be selected even though the screen may not have changed. If a digital handset holder does not have a magnet, the handset must be taken "off-hook" by pressing the "+" key.
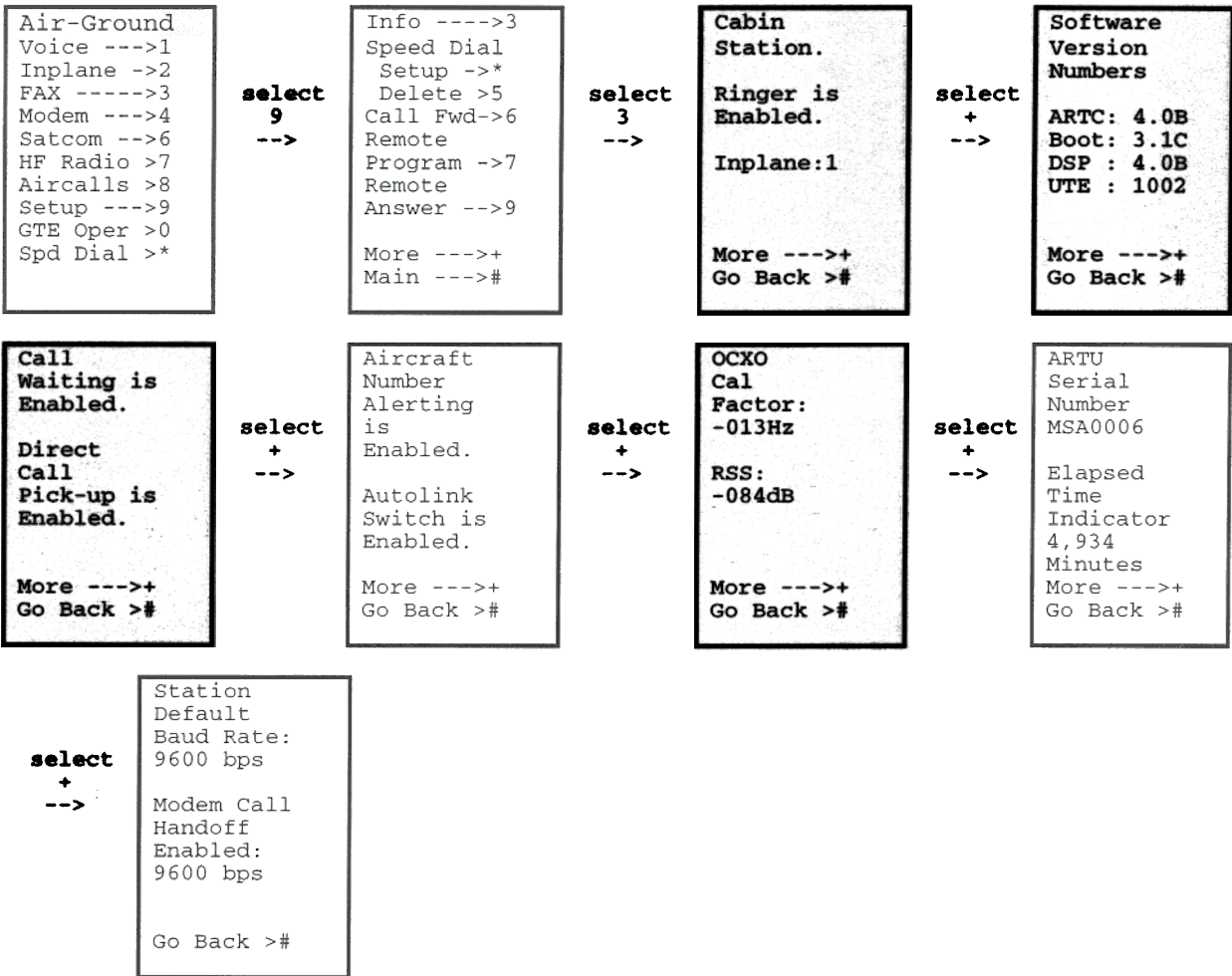
```
Air-Ground
Voice --->1
Inplane ->2
FAX ----->3
Modem --->4
Satcom -->6
HF Radio >7
Aircalls >8
Setup --->9
GTE Oper >0
Spd Dial >*
```

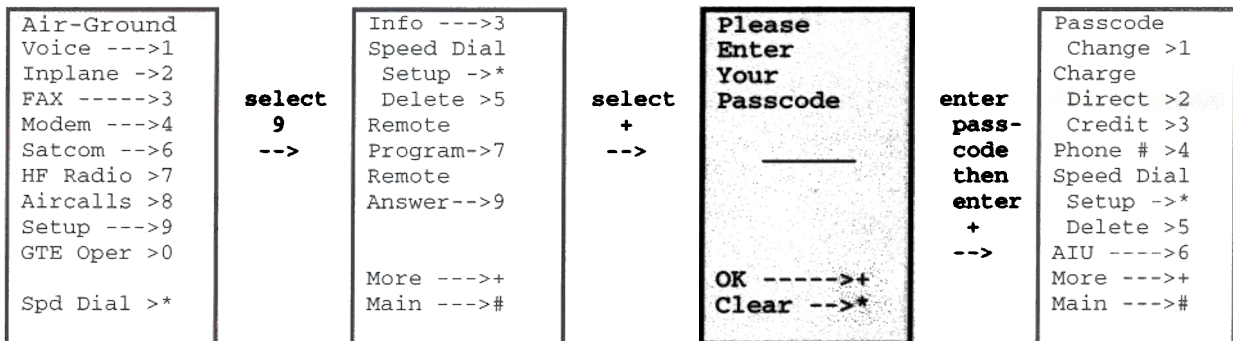# MAGNASTAR   C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

7.1.2.3 Checking Handset Setup Information Screens

The following screen progressions show how to check the handset "setup" information. These screens do not require the user to start a maintenance session.

```
Air-Ground                Info ---->3                Cabin                     Software
Voice --->1               Speed Dial                 Station.                  Version
Inplane ->2                Setup ->*                                           Numbers
FAX ------>3    select      Delete >5     select     Ringer is      select
Modem ---->4       9       Call Fwd->6       3       Enabled.          +       ARTC: 4.0B
Satcom -->6      -->       Remote          -->                       -->      Boot: 3.1C
HF Radio >7               Program ->7                Inplane:1                 DSP : 4.0B
Aircalls >8               Remote                                               UTE : 1002
Setup --->9               Answer -->9
GTE Oper >0
Spd Dial >*               More --->+                 More --->+                More --->+
                          Main --->#                 Go Back >#                Go Back >#
```

```
Call                      Aircraft                   OCXO                      ARTU
Waiting is                Number                     Cal                       Serial
Enabled.                  Alerting                   Factor:                   Number
                          is            select      -013Hz         select     MSA0006
Direct          select    Enabled.         +                          +
Call               +                     -->        RSS:           -->        Elapsed
Pick-up is       -->      Autolink                  -084dB                     Time
Enabled.                  Switch is                                           Indicator
                          Enabled.                                            4,934
                                                                              Minutes
More --->+                More --->+                 More --->+                More --->+
Go Back >#                Go Back >#                 Go Back >#                Go Back >#
```

```
                Station
                Default
                Baud Rate:
      select    9600 bps
         +
       -->      Modem Call
                Handoff
                Enabled:
                9600 bps


                Go Back >#
```

7.1.2.4 Starting a Maintenance Session

The following screen progressions show how to establish a "maintenance session". A maintenance session is required to perform any changes to a handset or the system configuration. The passcode can be installation dependent. The factory default passcode is 0000.

```
Air-Ground                Info --->3                 Please                    Passcode
Voice --->1               Speed Dial                 Enter                      Change >1
Inplane ->2                Setup ->*                 Your                      Charge
FAX ------>3    select      Delete >5     select     Passcode       enter       Direct >2
Modem ---->4       9       Remote           +                       pass-       Credit >3
Satcom -->6      -->       Program->7      -->       _____        code       Phone # >4
HF Radio >7               Remote                                    then       Speed Dial
Aircalls >8               Answer-->9                                enter       Setup ->*
Setup --->9                                                           +         Delete >5
GTE Oper >0                                                         -->        AIU ----->6
                          More --->+                 OK ----->+                More --->+
Spd Dial >*               Main --->#                 Clear -->*                Main --->#
```

MAGNASTAR   C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

7.1.2.5 Maintenance Screen #1
The first maintenance screen allows the user to change the passcode, change the billing mode, enter handset phone numbers (inplane, aircall and terminal ID's), enter speed dial numbers *510 -*549 and change the AIU setup.

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

7.1.2.5.1 Changing the Passcode and Billing Mode
The billing mode appears below the passcode change selection. The current value for the billing mode, either Direct or Credit, is highlighted. To change the billing mode, select the appropriate number. The selection will be verified by a change in the highlighted option type.

The following screen progressions show how to change the passcode. The system does not ask for reverification of the passcode once "+" has been entered for OK.

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

```
Please
Enter
Your
New             Enter a new
Passcode        passcode.
_____
                Then enter

OK ----->+
Clear -->*
```

```
We cannot
process
your            This is the
request at      screen that
this time.      will appear
                if an invalid
                passcode is
                entered when
Invalid         starting a
Passcode        maintenance
                session
                  <---
```

MAGNASTAR C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

7.1.2.5.2 Inplane Numbers

The following screen progressions show how to enter an inplane number and corresponding label. Inplane numbers are used to make seat to seat calls. Inplane numbers can vary from 0-9 and an eight character label can be associated with each inplane number.

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

To Disable          Select
Call                  1
Waiting >4          -->



Go Back >#
```
```
Available
Inplane
Numbers

>1 >2 >3
>4 >5 >6
>7 >8 >9
   >0

More --->+
Go Back >#
```
Select an inplane
number from the
available list.
The selected number
will be highlighted

Select + to enter
an inplane label

```
You may
enter an 8
Enter       character        Press
Label       label.            0
                             for a
Press *         ^            help
to move                      screen
Cursor.                      ---->
            Cursor ->*
Press #     OK ----->#
when        Help --->0
finished.
```
```
Press '5'
to pick a
character
list.

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

Go Back >#
```
There are
four
character
lists
(A,a,0, /)
from which to
choose.

MAGNASTAR   C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

7.1.2.5.3 Aircall Numbers

The following screen progressions show how to enter an aircall number. The procedure to enter a station or aircraft aircall number are the same. A station aircall number applies only to the associated handset that the aircall number is programmed. An aircraft aircall number applies to all the handsets in system. The installer must know the aircall PIN number in order to enter this number. The aircall PIN will only be valid for a particular aircall number. Aircall and associated PIN numbers must be obtained from GTE Airfone. An error screen is shown if an invalid aircall PIN number is entered. The screen progressions also show how to cancel an aircall number. An aircraft aircall number is a system function and need only be programmed from one handset.

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

```
Inplane >1
Aircall >2
Satcom ->3       Select
                   2
To Disable        -->
Call
Waiting >4



Go Back >#
```

```
Aircalls
 Station >1     Select Aircraft or
 Aircraft       Station to enter an
  ----->2       aircall number.
Cancel
Aircalls        Select Aircraft or
 Station >3     Station to cancel an
 Aircraft       aircall number.
  ----->4

More --->+
Go Back >#
```

```
Pass Your
Airfone
Calling
Card Thru      Select
Slot on          +
Right          for
             keypad
             entry
.             -->
Keypad
 Entry ->+
Exit --->#
```

```
Enter Your
Aircall
Number
                Enter
  (212)        aircall
 429-0000      number.

               Press
                 +
                -->
OK ----->+
Clear -->*
```

```
Please
Enter
Your
PIN            Enter
               PIN
  0175         number

               Press
                 +
                -->
OK ----->+
Clear -->*
```

```
Station
Aircall
Number
Updated.


Registered
to receive
messages
from the
ground.
```

This screen
shows the
results when an
invalid PIN
number is
entered.   -->

```
Card
  Invalid



Pass Card
  thru
  Slot -->

Keypad
 Entry ->+
Exit ---->#
```

This screen
shows the message
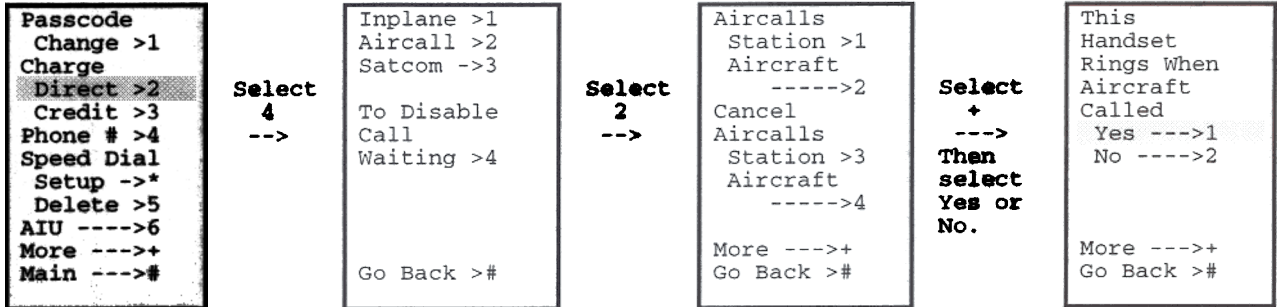displayed after
an aircall
number is
cancelled   -->

```
Station
Aircall
Number
Cancelled.

No longer
registered
to receive
messages
from the
ground.
```

MAGNASTAR   C-2000 DIGITAL AIRBORNE TELEPHONE SYSTEM

7.1.2.5.3.1 Disabling a Handset From Ringing with an Aircraft Aircall Number

It is possible to disable any number of individual handsets from ringing (including the CAS output) when an aircraft aircall number is programmed in the system. Each handset that is not to respond to an aircraft aircall number must be programmed as such. The following screen progressions show the steps necessary to cancel an aircraft aircall response from an individual handset.

```
Passcode                      Inplane >1                    Aircalls                      This
  Change >1                   Aircall >2                      Station >1                  Handset
Charge                        Satcom ->3                      Aircraft                    Rings When
  Direct >2      Select                       Select              ----->2      Select     Aircraft
  Credit >3      4           To Disable        2            Cancel             +           Called
Phone # >4       -->         Call             -->           Aircalls           --->          Yes --->1
Speed Dial                   Waiting >4                       Station >3       Then           No ---->2
  Setup ->*                                                   Aircraft         select
  Delete >5                                                     ----->4        Yes or
AIU ----->6                                                                    No.
More --->+                                                 More --->+                     More --->+
Main --->#                    Go Back >#                   Go Back >#                      Go Back >#
```

7.1.2.5.3.2 Direct Call Pickup

It is possible to configure the MagnaStar system for direct pickup of calls to the aircraft. A direct call pickup will automatically dial the ground party when the handset is taken off hook. The following screen progressions shown are for the direct call pickup feature. The Direct Call Pickup is a system function and need only be programmed from one handset.

```
Passcode                      Inplane >1                    Aircalls                      This
  Change >1                   Aircall >2                      Station >1                  Handset
Charge                        Satcom ->3                      Aircraft                    Rings When
  Direct >2      Select                       Select              ----->2      Select     Aircraft
  Credit >3      4           To Disable        2            Cancel             +           Called
Phone # >4       -->         Call             -->           Aircalls           --->          Yes --->1
Speed Dial                   Waiting >4                       Station >3                      No ---->2
  Setup ->*                                                   Aircraft
  Delete >5                                                     ----->4
AIU ----->6                                                                
More --->+                                                 More --->+                     More --->+
Main --->#                    Go Back >#                   Go Back >#                      Go Back >#
```

```
                              System
                              Configured
                              For Direct
     Select                   Call
       +                      Pickup            Select "Yes" or "No" to configure
                                Yes --->1       the system the for direct call
                                No ---->2
                                                pickup.  The selection will
                                                be highlighted.  "Yes" is the
                                                system default value.

                              Go Back >#
```