Stylus

Advanced Technology Card System

50 MODEL STORAGE CARD

⊗ *AIRTRONICS*

Basic Description   The Stylus 50 Model Memory Card is used to store complete model set-up information on a removeable, self contained unit. This is useful for many different reasons; some of the ways to use this card are:

Storing larger number of Model Setups — The Stylus has built-in storage for four model set-ups, including any alternate set-ups you may have programmed for a model. With the memory card you can store up to 50 setups.

Back-up storage — Even if you only need the four model capacity built in to Stylus, you may wish to make a back-up copy of your programs to protect you in the event of inadvertant loss of your programmed data.

Exchanging set-ups with between Stylus transmitters — If you have more than one Stylus transmitter, you can exchange set-ups between them by using the memory card.

Using Multiple Feature Upgrade Cards — If you fly more than one type of aircraft (AERO, HELI, GLID) and want to use the extended feature sets available for each of these model types, you can use the Memory Card to save your Extended Feature set-ups for any of the aircraft, whether using the original feature sets or extended feature sets for the models. (Feature Upgrade Cards are available separately for each aircraft Type.)

WARNING:

Before using the Memory Card, read this entire manual to ensure that you have a good basic understanding of the features and functions. IT IS POSSIBLE TO "ERASE" OR WRITE-OVER YOUR PRESENT PROGRAMMING when using the card menus, so proceed slowly and follow the simple instructions in this manual!

CAUTION:

As with any delicate electronic device, care needs to be taken to preserve the integrity of the Stylus Cards. At all times the Card must be kept dry and as clean as possible. When not in use, store the card in a safe place. At all times keep the card away from extreme temperatures, moisture, static electricity, magnetic devices and electrical power sources. With proper care your Stylus Card should give you many years of reliable service.
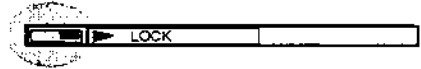
Card Battery

The Stylus card uses a small 3 volt battery to maintain its memory. The battery is shipped with the card, and must be installed by the user prior to operating the card. Do not use any battery other than the one that comes with your Card.
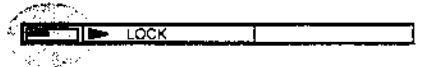
To install the battery, find the battery compartment on the side of the card opposite the connector block. Using a small pin or paper clip, push the lock/ release lever towards the outside corner of the card. (See diagram)

Battery compartment locked >

Battery compartment unlocked >

Using fingernails and light force, pull the battery holder straight out and remove it completely from the card body.

Place the battery into the recessed area of the battery holder. The battery will be flush with the body of the slide-out battery tray.

The side of the battery with the part number, voltage and other information engraved MUST BE FACING UP, away from the small metal contact strips of the battery holder. Improper battery installation can damage your card and/or your radio system - be sure this is done correctly!

Card Battery ...   With the battery holder oriented as shown below, (with printed side of battery visible on the same side as the printed label on the Card) slide the battery holder and battery back into the card. Using a pin or paper clip, push the lock lever towards the middle of the card to the "Lock" position.

Be CERTAIN that the battery is oriented as shown!

Return the battery compartment lock to the "Lock" position.

Battery compartment locked >
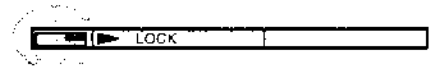
Your 50-Model Memory Card is now ready for installation in the Stylus.

Installing Card   The 50-Model Memory Card (as with any of the cards designed for use with the Stylus transmitter) is simple to install.

The card slot is located directly in front of the transmitter battery compartment on the Stylus, and is accessed by opening the same door. Simply grasp the front edge of the door and pull it open as shown in the diagram.
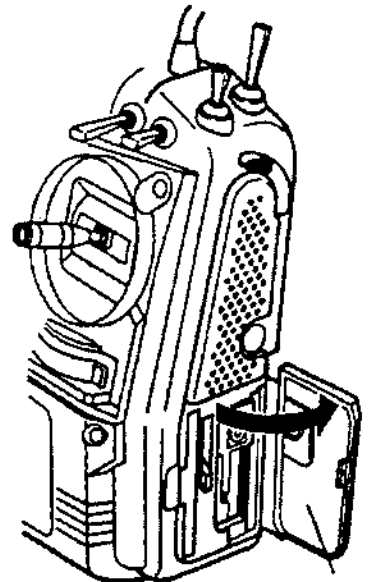
Card Slot access door

Installing Card ... The end of the card with the connector block is marked with an arrow. This end is inserted into the card slot. The face of the card (side with the printing on it) must face towards the front of the transmitter, as shown below.

Gently push the card into the slot. DO NOT use excess force as this could damage the card or the connectors. Steady, gentle force while making certain that the card is aligned squarley with the slot will be enough to engage the connectors.

When fully seated, the outer edge of the card will be flush with the surrounding area of the case.
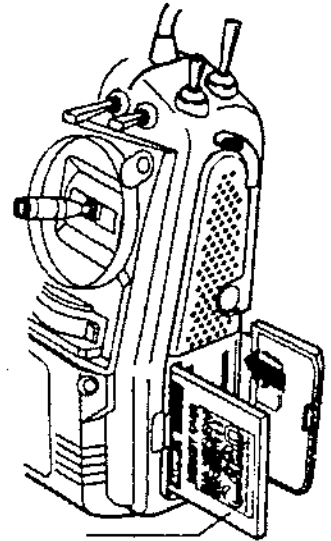
*Insert card
as shown*

REMOVING CARDS:

To remove the card, push the release lever located between the card slot and the transmitter battery compartment upwards; this will disconnect the card and push it outwards far enough to grab with your fingers; then pull it out carefully and store in a safe manner.
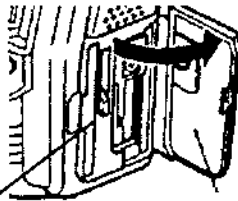
Card Release Lever

Using The Card All of the operations involving the Model Storage Card are controlled by options in the CARD menus.

Press the EDIT key to bring up the following menu:

◄ ► YES/+ NO/- EDIT END
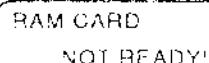○ ○ ○ ○ ● ○

F-SAFE	CONTRAST
CLICK	CARD

Press the > key to move the cursor to the CARD position:

◄ ► YES/+ NO/- EDIT END
○ ● ○ ○ ○ ○

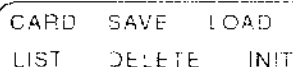| F-SAFE	CONTRAST
CLICK	CARD

INITIALIZE

If you have just installed the 50-model card's battery the card will need to be initialized before use. This process prepares the card for use with the Stylus transmitter.

If you select any of the other card menu functions at this time and press the YES/+ key, you will be given the following error message:
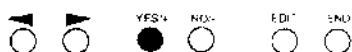
```
RAM CARD
  NOT READY!
```

In order to enable the card for use, press the > key to place the cursor over the INIT position:
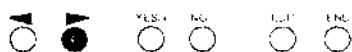
```
CARD   SAVE   LOAD
LIST   DELETE   INIT
```
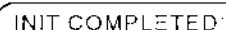
Now press the YES/+ key. The following menu will appear.

```
INIT SURE?   YES
```

This menu asks if you are sure that you want to use the initialize function. This gives you an extra level of protection in the event that you chose the INIT menu by mistake - using the INIT function after you have saved model set-ups to the 50-model card WILL ERASE ALL of the set-ups stored on the card. IF YOU DO NOT WANT TO INITIALIZE YOUR 50-MODEL CARD, PRESS THE END KEY NOW to return to the full CARD menu.

To proceed with the initialization process, press the YES/+ key. The red "Card Access" light on the transmitter face will blink briefly and then the menu will display the message below:

```
INIT COMPLETED
```

Your 50-Model Memory Card is now ready for use, and all of the other CARD menu functions will be available.

Using the INIT function after you have saved model set-ups to the 50-model card WILL ERASE ALL of the set-ups stored on the card.

Using The Card ...   Press the YES/+ key to display the CARD menu functions:

◁ ▷ ● ○ ○ ○

┌─────────────────────────┐
│ CARD   SAVE   LOAD   │
│ LIST   DELETE   INIT   │
└─────────────────────────┘

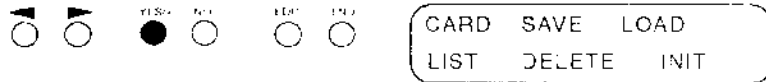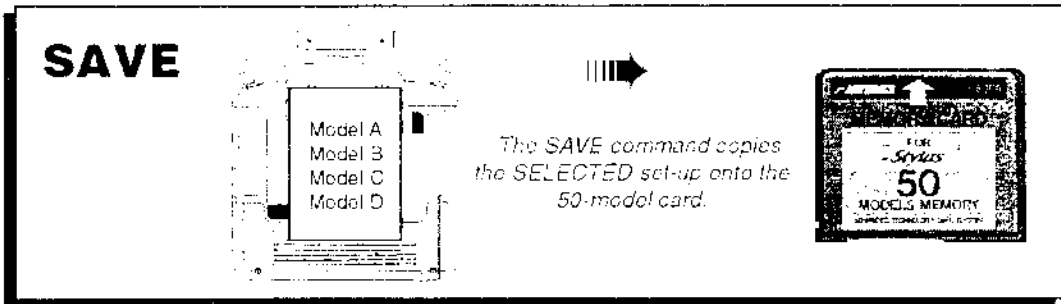A description of the card menu functions follows:

SAVE .... This menu is used to SAVE a copy of any of the internally programmed set-ups to the 50-Model Memory Card. The saved copy will be placed on the lowest available position on the 50-model card.

SAVE

Model A
Model B
Model C
Model D

The SAVE command copies the SELECTED set-up onto the 50-model card.

LOAD .... This function is used to LOAD one of the set-ups that you have stored on the 50-model card into the a selected set-up in the transmitter's built-in memory. This will completey replace the program that was formerly in that model set-up, so make certain of your choice when using the LOAD option!

LOAD

The LOAD command copies a selected set-up from the 50-model card into the the SELECTED set-up in the Stylus transmitter.

Model A
Model B
Model C
Model D
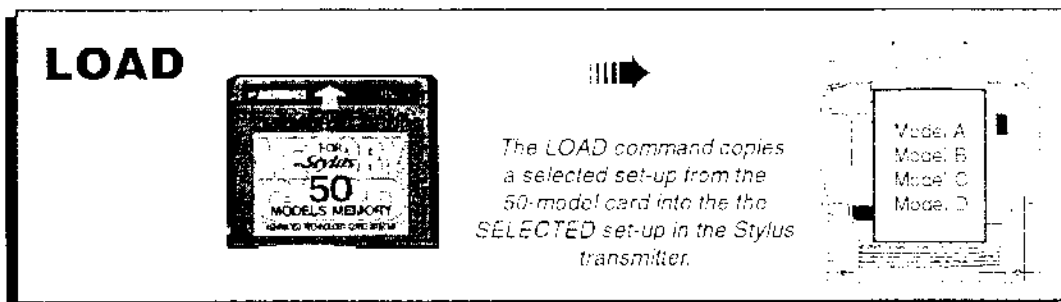
LIST .... This function allows you to scroll through a list of all of the set-ups that have been stored on the 50-model card.

DELETE .... To remove an unwanted or no longer needed set-up that has been stored on the 50-model card, you will use the options within the DELETE menu.

INIT .... The INIT function is used to INITIALIZE the card; that is, to "format" the card and prepare it for use with your Stylus transmitter. ANY data that was stored on the 50-model card will be erased permanently when the INIT function is used.

SAVE

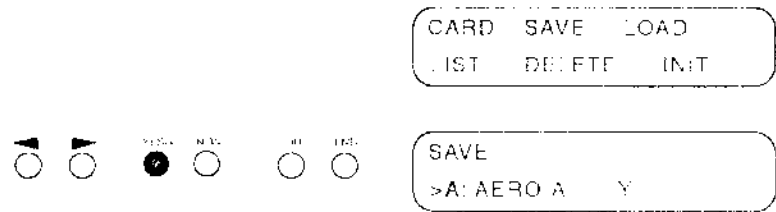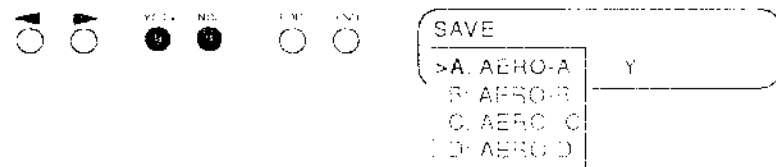The SAVE function is used to copy a set-up from the Stylus internal memory to be saved onto the 50-model card.

The SAVE function is alredy selected when the CARD menu is displayed. Pres the YES/+ key to show the SAVE menu:

```
┌─────────────────────────┐
│ CARD   SAVE   LOAD      │
│ LIST   DELETE  INIT     │
└─────────────────────────┘
```

```
┌─────────────────────────┐
│ SAVE                    │
│ >A: AERO-A       Y      │
└─────────────────────────┘
```

The first menu position indicates the model set-up that is presently selected for saving to the 50-model card. If the model you wish to save is not the one presently dsiplayed, use the YES/+ or NO/- keys to scroll through the model set-ups.

```
┌─────────────────────────┐
│ SAVE                    │
│ >A: AERO-A      Y       │
│  B: AERO-B              │
│  C: AERO-C              │
│  D: AERO-D              │
└─────────────────────────┘
```

When the desired model set-up is displayed, press the > key to move the cursor to the "Y" position.

```
┌─────────────────────────┐
│ SAVE                    │
│ >A: AERO-A       Y      │
└─────────────────────────┘
```
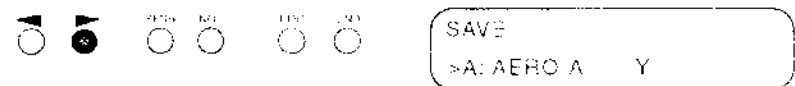
Now press the YES/+ key to save the selected set-up to the 50-model card.

```
┌─────────────────────────┐
│    1:AERO-A             │
│ SAVE COMPLETED          │
└─────────────────────────┘
```
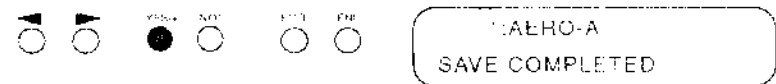
A menu similar to the above will display. The top line shows which of the 50 set-ups available on the 50-model card (in this case, #1) has been saved to, and which of your model set-ups has been saved to that position. The name of the model will be the same as the original model name.

The second line confirms that the SAVE function has been completed successfully.

If any other message is displayed, consult the "Troubleshooting" page at the rear of this manual.

LOAD

The LOAD function is used to move one of the model set-ups that has been saved onto the 50-model card into one of the 4 set-ups on the Stylus internal memory.

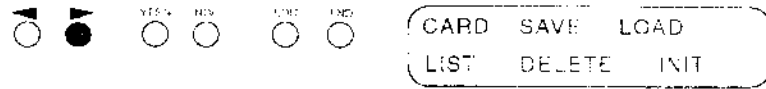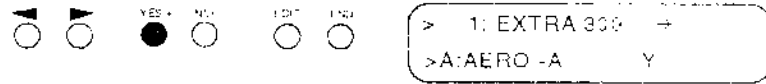Press the > key to move the cursor to the LOAD position.

```
CARD    SAVE    LOAD
LIST    DELETE    INIT
```

Press the YES/+ key to display the LOAD menu:

```
>   1: EXTRA 300   →
>A: AERO -A          Y
```

The first (top line) cursor position shows which of the model set-ups stored on the 50-model card will be copied into the Stylus internal memory. Use the YES/+ or NO/- keys to scroll through the available set-ups.

```
>        1: EXTRA 300
>A      2: BIPLANE        Y
         3: PERIGRNE
         4: ENFORCER
         5: BARON II
          (thru #50)
```
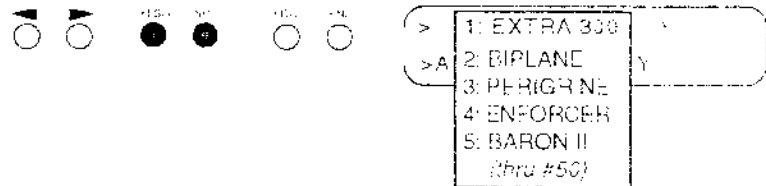
Having selected the model set-up that you want to LOAD, press the > key to move the cursor to the next position (bottom menu line).

```
>   1: EXTRA 300   →
>A: AERO -A          Y
     B: AERO-B
     C: AERO-C
     D: AERO-D
```
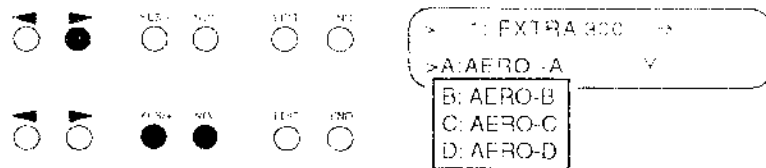
This position is where you select which of the four built-in set-ups you want to LOAD the selected set-up into. Use the YES/+ or NO/- key to select the destination for the set-up you are loading. Then press the > key to move the cursor to the "Y" position. Press the YES/+ key to complete the LOAD process.

```
>   1: EXTRA 300   →
>A: AERO -A          Y
```

The menu will show that the selected source set-up has been copied into the selected destination.

```
MDL A: EXTRA 300
LOAD COMPLETED
```
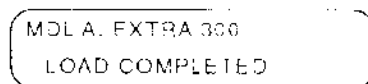
LIST

The LIST function allows you to see all of the model set-ups that have been saved to the 50-model card. You can not add, delete or change any set-up from the LIST menu.

Press the > key to move the cursor to the LIST position.

```
  ◄    ►    YES+   NO-    SET   END
  ○    ●    ○     ○      ○     ○        │ CARD   SAVE    LOAD  │
                                        │ LIST   DELETE   INIT │
```

Press the YES/+ key to display the LIST menu:

```
  ◄    ►    YES+   NO-    EDIT   END
  ○    ○    ●     ○      ○     ○        │ >    1. EXTRA 300 │
                                        │      2: BIPLANE   │
```

The first two model set-ups that have been stored on the 50-model card will be displayed, with the position (#1 through #50) listed first, then the name of the model.

Pressing the YES/+ or NO/- keys will move you through a list of all model setips stored on the card.
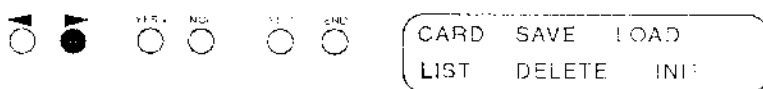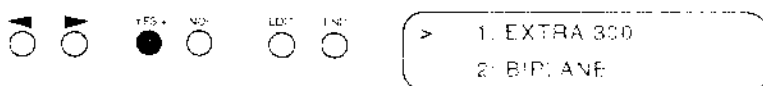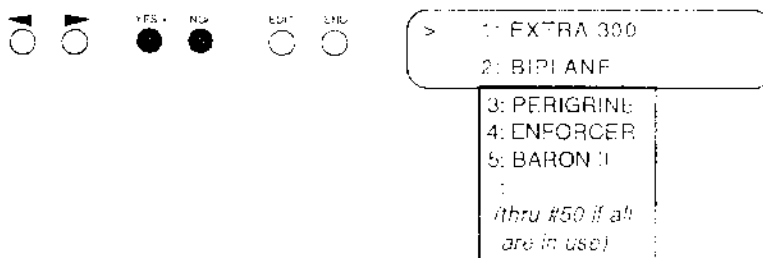
```
  ◄    ►    YES+   NO-    EDIT   END
  ○    ○    ●     ●      ○     ○        │ >    1: EXTRA 300 │
                                        │      2: BIPLANE   │
                                        ┌───────────────────┐
                                        │ 3: PERIGRINE      │
                                        │ 4: ENFORCER       │
                                        │ 5: BARON II       │
                                        │ :                 │
                                        │ (thru #50 if all  │
                                        │  are in use)      │
                                        └───────────────────┘
```

DELETE

The DELETE function allows you to erase un-wanted or no longer needed model set-ups from the 50-model card. You can not restore a set-up that has been deleted, so proceed with caution!

Press the > key to move the cursor to the DELETE position:

```
  ◄    ►    YES+   NO-    LIST   IN
  ○    ●    ○     ○      ○     ○        │ CARD   SAVE    LOAD  │
                                        │ LIST   DELETE   INIT │
```

Press the YES/+ key to display the DELETE menu:

```
  ◄    ►    YES+   NO-    LIST   IN
  ○    ○    ●     ○      ○     ○   .    │ >    1:EXTRA 300  │
                                        │      DELETE? YES  │
```

The top line shows the model set-up that is presently selected to be deleted. (In this case, set-up #1, "EXTRA 300." If you want to delete a different set up, use the YES/+ or NO/- key to scroll through the set-ups that have been stored on the card and are available to be deleted.

Delete ...

When the model set-up to be deleted is displayed on the top line, press the > key to move the cursor to the YES position.

```
 ⊖  ●    ⊖ ⊖    ⊖ ⊖    ┌─────────────────────────┐
                       │  >     1:EXTRA 300      │
                       │        DELETE?  YES     │
                       └─────────────────────────┘
```
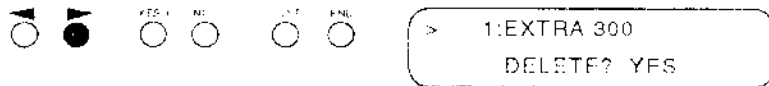
At this point nothing has been deleted. If you decide that you do not wish to delete the present set-up, press either the END key or the NO/- key to leave the DELETE menu.

To proceed with the deletion of the selected model, press the YES/+ key. The display will show that the model has been deleted

```
 ⊖  ●    ⊖ ⊖    ⊖ ⊖    ┌─────────────────────────┐
                       │      DELETE             │
                       │      COMPLETED          │
                       └─────────────────────────┘
```

Error Messages and Warnings

The following warnings or error messages may be displayed at times. The reason and action to take are as follows:

Memory Card Not Ready .... You need to initialize the 50-model card

Memory Card is Full .... All 50 positions on the 50-model card are in use

Save: (Set-up A,B,C, or D) No Name! .... The set-up you are attempting to save has no name assigned

Same Name Exist! Save Sure? YES .... You are saving a set-up that has the same name as another set-up. To continue, press YES/+ key, to stop press END key

The following messages may appear if you are also using one of the feature upgrade cards:

Not Same Type! (GLID>HELI) .... You are loading a set-up into a position that is presently defined as a different type of aircraft.

Load Error! .... An error occured while attempting to load a set-up. Re-try the LOAD process, check that the model type is correct.

Not Same Program (S-AERO>3TYPE) ...... You are attempting to load a set-up that uses one of the extended feature cards into a basic (3-Type) set-up.

Init All Data? Or Rstart (S-Aero) .... You have powered-up the Stylus transmitter after removing an extended feature set card. IF YOU PRESS YES/+ key, the program will re-set to the default set-ups and all previously programmed set-ups will be erased. If you DO NOT want to initialize the internal memory, then reinsert the extended feature set card (in this example, the AERO card, but the card type will always be shown at the bottom right of this menu) and turn the transmitter off, then on.

Using the 50-Model Storage Card in conjunction with Extended Feature Cards(s)

This section details the procedures for using the 50-model card along with any of the extended feature cards. Since each of the extended feature cards requires that you initialize the Stylus program for that specific aircraft type (AERO, HELI or GLID) you will want to use the 50-model card to store any other type of model set-up you wish to retain.

1. Insert the Feature Card into transmitter, initialize as described in feature card manual, and program the set-up for your aircraft. **LEAVE TRANSMITTER POWER ON! Remove the Feature Card.**

2. Insert 50-Model card and use the SAVE function to save the set-up onto the 50-Model Storage Card. **LEAVE TRANSMITTER POWER ON!**

3. Reinsert feature card to fly aircraft

4. To load another model of the same type as first, select another mode, set-up and program model #2. LEAVE TRANSMITTER POWER ON!

5. Insert 50-Model card and use the SAVE function to save the set-up #2 onto the 50-Model Storage Card. LEAVE TRANSMITTER POWER ON!

6. Reinsert feature card and select either set-up #1 or #2 to fly aircraft

7. In a similar manner you can program any number (up to 50) of other set-ups, either using the basic built-in features or any of the extended feature cards, and SAVE them to the 50-model card while the transmitter remains turned on. Then turn the transmitter on with the appropriate feature card installed (or with no cards for a set-up that does not use the extended feature card) and initialize, then WITH POWER STILL ON insert the 50-model card and LOAD the set-up. LEAVE POWER ON and reinsert the feature card (if used) and fly model.

Special Precautions for Safe Handling

Do not remove or insert the 50-Model Card while the "CARD ACCESS" lamp is ON, as this may damage the Card circuits. The Card Access lamp will be on whenever you execute the Save, Load, List, Delete or Initialize functions. It will also be on briefly when you turn on either of the transmitter power switches with a card installed.

Do not touch the card terminals with your hands or with any metal objects, as a static charge could destroy the Card circuits.

Keep the card terminals protected at all times from any dirt, oil or other contamination

Do not hold the lithium battery by its contacts or use pliers as this could short out the battery

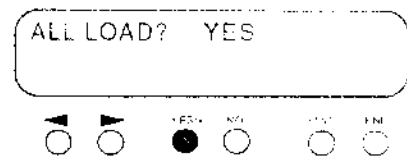# Lithium Battery Replacement — 50 Model Memory Card

The battery used in the 50-Model Memory Card is a 3-volt cell rated for approximately five years life expectancy. To allow for a safety margin we recommend replacing the battery every three years.

When you remove the lithium battery from the 50-Model Card all of the set-ups stored on the card will be lost. To save all of your set-ups, follow the steps below exactly:

BEFORE removing the old battery from the 50-Model card, insert the card in your transmitter, with the transmitter OFF.

Hold the EDIT key down and turn on the DISPLAY power switch.

The menu will display as follows:

```
┌─────────────────────────┐
│ ALL LOAD?    YES         │
│                          │
└─────────────────────────┘

 ◄   ►    YES  NO    LD   END
 ○   ○    ●    ○     ○    ○
```
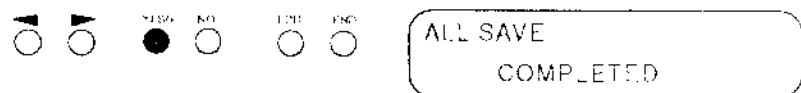
Press the YES/+ button. All of the programming stored in the 50-model card will now be copied into the memory of the transmitter. The display will read as follows:

```
┌─────────────────────────┐
│ LOAD COMPLETED           │
│ ALL SAVE?    YES         │
└─────────────────────────┘
```
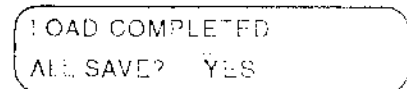
DO NOT PRESS ANY BUTTON! LEAVE TRANSMITTER DISPLAY SWITCH ON!! At this point all of your programming is stored in the transmitter's memory. It will remain there as long as the transmitter is left on. Now, remove the 50-Model Card and replace the battery as shown on pages 3-4 of this manual.

With the new battery installed and with the transmitter still turned on, install the card. Now press the YES/+ key to SAVE all of the data back onto the 50-Model Card.

```
 ◄   ►    YES  NO    LD   END     ┌─────────────────────────┐
 ○   ○    ●    ○     ○    ○       │ ALL SAVE                 │
                                  │      COMPLETED           │
                                  └─────────────────────────┘
```

The display will show "All Save Completed," meaning that the data has been saved to the 50-Model Card. You may now turn the transmitter off and re-load the desired set-up for use.

DO NOT initialize the card!