

How to use the Scientific Atlanta Digital Receiver While waiting for a Satellite System Controller

These instructions are for sites that want the ACN digital channel only. If you want to receive both ACN and 3ABN while waiting for the Controller to arrive, use the Dual Use instructions available at www.acnsat.org/pdf/dualuse.

After November 1st ACN will broadcast in digital only. Most sites will have their Scientific Atlanta (SA) Receiver by that time, but some sites may not have the Controller, which performs automation functions. These instructions will tell you how to manually set up your SA Receiver so you won't miss any ACN events while you are waiting for the rest of your system.

In summary, you will use your existing analog receiver to point the dish and set the polarity for all ACN digital broadcasts through the rest of the year. You will then connect and program the SA to receive a signal. When you are done, you should have a test pattern signal at the same location ACN will use as a broadcast channel for the rest of 2000.

Instructions are written for users of the Chaparral M200C, the official ACN analog system. Users of other types of analog equipment will need to apply the principles, although the specific steps and wiring configuration will be different. Digital instructions assume the use of the Scientific Atlanta PowerVu Receiver (SA).

REMEMBER, all instructions seem more complicated than they really are. If you follow each step, it's easier than it first appears to be. Also remember, the Satellite System Controller performs all these functions for you, if you want to wait until it arrives.

QUICK AND EASY SETUP

1. Chaparral users should change the Home Channel to Galaxy 6, C-24

- A. Use the Chaparral remote and press MENU.
- B. Point at the line that says INSTALL B and press SELECT.
- C. Point at the line that says SET UPLINK and press SELECT.
- D. Point at the line that says HOME SAT and press SELECT.
- E. You should see your satellite list. Point at Galaxy 6 and press SELECT. You should now see the name Galaxy 6 on the HOME SAT line.
- F. Point at the line that says HOME CHAN and press SELECT.
- G. Point at channel C-24 and press SELECT. You should now see C-24 beside the HOME CHAN.
- H. Press CLEAR until you exit all the menus.

ACN won't be using the analog Home Channel after November 1, 2000 but this will keep the dish and polarity in the right place to receive the digital signal with the SA Receiver.

2. Place the analog receiver on Galaxy 6 (also known as Galaxy 4), channel 16. You should have a clear picture of the Shepherd's Chapel. If you don't have a clear picture of Shepherd's Chapel get help before proceeding.

3. Changing wires from the Analog Receiver to the Scientific Atlanta Digital Receiver.

- A. Set up both receivers near each other.
- B. All dish control wires remain on the analog receiver until the Satellite System Controller arrives.
- C. Move the RCA cables plugged into the MAIN video and audio outputs from the Chaparral to the SA Receiver. Connect the Video cable to the yellow video port on the SA Receiver.
- D. If you want English language **only**, connect only the Left Audio to the white audio port on the SA Receiver.
- E. If the event is offering a Spanish translation, use the Right Audio for that language.
- F. If you are using another type of analog receiver you may need to acquire a set of RCA cables to make this connection. Do not use the TV OUT coaxial connect on the back of the SA Receiver.

When properly connected an, RCA cable will connect the yellow video port on the SA Receiver with the yellow video port on the VCR. An RCA cable will also connect the left audio (white) port on the SA Receiver with the white audio port on the VCR. Usually the right audio (red) on the SA Receiver will not be connected.

4. Connect the SA to the Dish:

Before you can see a digital picture, you will need to connect the coaxial cable coming from the dish to the SA.

- A. Find the coaxial cable that is connected to the analog receiver that brings the signal from the dish. This is called "satellite" or "LNB" or similar designation.
- B. Move this coaxial cable to the SA Receiver to the place that's marked "Satellite".

5. Turn the SA Receiver On:

- A. On the back of the SA Receiver find the switch marked LNB Power. Make sure that switch is ON.
- B. Use the SA Remote Control to turn on the Power to the SA Receiver (The remote and batteries are in the side of the packing material).

If the above instructions are followed you should have color bars or other visual signal at this time. If your screen is just black, press the up arrow on the SA remote to find channel 2. If you have no signal, call for help—800-ACN-1119

If you have the signal you do not need to continue these instructions.

PROGRAMMING THE SCIENTIFIC ATLANTA RECEIVER FOR THE FIRST TIME

6. Take the Receiver out of PowerVu mode.

The Receiver comes preset from the factory in PowerVu mode. This limits the number of networks you can tune in and can make it more difficult to receive some ACN broadcasts. It is important to follow this step.

A. Take the remote control for the SA Receiver and press **MENU**.

Main Menu
4. Available Services
3. Dish Pointing
2. Receiver Status
1. Exit

B. Use the up arrow above the **SELECT** button to highlight Menu 2: Receiver Status. Press **SELECT** when this is highlighted.

Receiver Status
4. Configuration
3. Receiver Setup
2. User Setup
1. Exit

C. Highlight Menu **2: User Setup** and press **SELECT**.

User Setup
3. Network Presets
2. Display Setup
1. Exit

D. The User Setup Menu has many lines, but only a few are involved in this step. Highlight **3: Network Presets** and press **SELECT**.

Network Presets
Use NIT NO
Preset Number 0
1. Exit

E. The three lower lines in right column looks like this. Highlight **USE NIT YES** and press **SELECT** until it says **NO**. After setting NIT to NO. Press **MENU** to exit the menus.

Save Changes?
1: Yes
2: No
3: Cancel

F. Anytime you make a change in a menu in the SA Receiver and press **MENU** or **Exit**, you will see this screen. Just press the number **1** on your SA remote keypad to save the changes.

G. When this screen disappears you should be back at the screen with no menus. If you still have a menu, press **MENU** until all the menus are gone.

Please wait
Acquiring Network
Information

7. Programming for a Digital Signal:

These instructions will help you know that you are getting a digital signal and at the same time set the SA Receiver for the next ACN event.

- A. Take the remote control for the SA and press MENU.
- B. Use the up arrow above the Select button to highlight the second line up-RECEIVER STATUS, then press SELECT.

| |
|--|
| <p>Main Menu</p> <p>4. Available Services</p> <p>3. Dish Pointing</p> <p>2. Receiver Status</p> <p>1. Exit</p> |
|--|

- C. Move the highlight bar up to RECEIVER SETUP and press SELECT.

| |
|---|
| <p>Receiver Status</p> <p>4. Configuration</p> <p>3. Receiver Setup</p> <p>2. User Setup</p> <p>1. Exit</p> |
|---|

- D. The Receiver Setup screen should now appear. We will take several steps here.

Receiver Setup (default numbers may vary)

| | | | |
|---------------|-----------|-----------------|---------|
| Freq Mode | L-Band #1 | Network ID | 1 |
| Frequency | 10.7000 | AFC Level | +01 |
| L. O. Freq #1 | 9.750 | Signal Strength | 50 |
| L. O. Freq #2 | 10.600 | Signal Quality | 0 |
| Crossover | 11.700 | Signal State | No Lock |
| Polarization | H | Find | Off |
| FEC | 3/4 | 2. Search Setup | |
| Symbol Rate | 28.3465 | 1. Exit | |

Use the arrow keys around the Select button on the SA remote control to move to the desired area to make the changes below.

1. Highlight **Freq Mode**. Press Select until this says **Downlink**. You can ignore the error message you may encounter while setting this option. You will notice that once you select the Downlink mode the numbers will change in the left column. Don't worry about the actual numbers at this time since you will be changing them.
2. Highlight **Frequency**. Press SELECT and use the number pad on the remote control to enter the following numbers: 374000 (3.74000) and press SELECT to save these numbers. Ignore the error message. Move down to the next line and check to make sure the Frequency line still says 3.74000. If it doesn't, repeat this step.
3. Highlight **L. O. Freq #1** and press SELECT. Use the number pad on the remote to enter 5150 and press SELECT to save this number (5.150). When this number is saved the next two lines will change to N/A. Ignore the error message.

4. Highlight **Polarization** and press SELECT until the line reads H (fixed). Go down to the next line.
5. Highlight **FEC Rate**. Press SELECT until the line reads 3/4. Go down to the next line.
6. Highlight **Symbol Rate** and press SELECT. Enter the number 283400 (28.3400). Press SELECT to save this number. Move the highlight bar to the right to EXIT.
7. Review the settings to make sure they read as follows:

Receiver Setup

| | | | |
|---------------|-----------|-----------------|-------------|
| Freq Mode | Downlink | Network ID | 1 |
| Frequency | 3.74000 | AFC Level | +xx |
| L. O. Freq #1 | 5.150 | Signal Strength | xx |
| L. O. Freq #2 | N/A | Signal Quality | *09 |
| Crossover | N/A | Signal State | *Lock, +Sig |
| Polarization | H (fixed) | Find | Off |
| FEC | 3/4 | 2. Search Setup | |
| Symbol Rate | 28.3400 | 1. Exit | |

*If you are already connected to the dish when you perform these steps, you should show a signal quality of 6 or more and a signal state of Lock, +Sig. If these are missing, call for assistance.

8. When the menu settings are correct press MENU to exit the menu. When prompted, press 1 on the keypad to save the changes. If you followed all the previous steps, you should have a black screen.
9. Press the up arrow on the SA remote to advance to channel 2. You should show PanAmSat color bars. ACN will be broadcasting here for our next event all during 2000

Congratulations, your digital receiver is working. Leave power ON to everything except the TV. When you get the Controller, it will handle all these steps for you and a lot more.

Instructions for connecting the analog and digital receiver at the same time and/or tuning in 3ABN are available at the ACN website-www.acnsat.org.

Complete instructions for connecting the Satellite System Controller will come in the box with the Controller in a few weeks.