

OPTIONAL USE OF A COMBINED ANALOG AND DIGITAL RECEIVER

These instructions are optional. They are a little more complicated than the single use instructions. These instructions are for sites that want to use both the analog and digital receiver and who want to move between ACN and 3ABN until the Controller arrives.

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)

Here is the basic principle: Use the analog receiver to point the dish at the correct satellite and polarity—then program the correct settings into the digital receiver to receive the desired program. Wiring needs to be correct to get the signal from the desired receiver to the VCR/TV/Video Projector. Instructions here are for the ACN digital broadcast and the 3ABN digital broadcast settings.

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 that you can use the easier single use instructions and not miss any ACN events. Remember, the Satellite System Controller performs all these functions for you, if you wait until it arrives.

A. Wiring both systems for video and audio:

1. Set up both receivers near each other.
2. All dish control wires remain on the analog receiver until the Satellite System Controller arrives.
3. The connection between the Chaparral receiver and the VCR remain as they are for analog operation. The VCR must stay in LINE mode to see the picture from both receivers.
4. Use a set of RCA cables to go from the SA to the Chaparral. Connect the Video out port on the SA to the Input 1 Video input on the back of the Chaparral.
5. Connect the LEFT (white) Audio output from the SA to the LEFT Audio connection on the Chaparral under Input 1. (NOTE: Do not connect the Right audio on the SA. When Spanish translation is offered it will come on the right audio channel.)

B. 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.

C. Set up the Chaparral for dual use:

1. Set the Chaparral on Galaxy 6 (now called Galaxy 11 or 4 in the ACN digital schedule).
2. Go to channel 16 to make sure you are getting Shepherd's Chapel. This assures you are on the correct satellite and polarity.
3. Place the Chaparral on channel 24 (C-24).
4. Press MENU and select Menu 2: Video Menu.
5. You should be pointing at the line VIDEO SOURCE: Press the RIGHT arrow on the cursor pad until that line reads INPUT 1.
6. Press the Menu button to advance to Menu 3:Audio Menu.
7. You should be pointing at the line AUDIO SOURCE: Press the RIGHT arrow on the cursor pad until the line reads INPUT 1.
8. Press CLEAR until all menus are off the screen.
9. Turn on the SA and you should see a screen with a light blue boarder and the words No Signal. This means you are now seeing the signal from the SA.

C. 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. You can either move the cable back and forth between the Chaparral and the SA or you can obtain a splitter (see note below) to have both connected at the same time. These instructions assume that you are moving the cable each time you transfer between analog and digital.

1. Move the satellite signal cable from the Chaparral to the SA. It is the large black screw-on cable at the back of the Chaparral. Remember where you need to reconnect this.
2. Attach this signal cable to the back of the SA where it says SATELLITE above the connector (about the center).
3. Make sure the LNB Power switch is set to ON when using the SA in this way (See Note if using a splitter).

You should still see the No Signal screen from the SA

D. Set the Digital Signal:

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

1. Take the remote control for the SA and press MENU.
2. Use the up arrow above the Select button to highlight the second line up-RECEIVER STATUS, the press SELECT.
3. Now move the highlight bar up to RECEIVER SETUP and press SELECT. 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.

4. 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 that the numbers will change in the left column. Don't worry about the actual numbers at this time since you will be changing them..
5. 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.
6. Highlight L. O. Frequency 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.
7. Highlight Polarization and press SELECT until the line reads H (fixed). Go down to the next line.
8. Highlight FEC Rate. Press SELECT until the line reads 3 / 4. Go down to the next line.
9. 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.
10. 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	

11. 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.
12. Press the up arrow on the SA remote to advance to channel 2. You should have a PanAmSat Test Pattern or some other programming. Congratulations, your digital receiver is working. This is where ACN will be broadcasting for the next couple of months.

NOTE: It is possible to connect both the analog and digital receiver to the dish at the same time. This saves time because you don't have to switch the cable when you go between the digital and analog receivers.

1. You need to get a standard coaxial splitter at the hardware or electronics store.
2. Turn the LNB Power switch OFF on the back of the SA (remember to turn it on again if you ever disconnect the analog receiver)
3. Connect the satellite cable currently connected to your analog receiver to the input on the splitter.
4. Connect one coaxial cable to the Satellite input on the Chaparral. Connect another coaxial cable to the Satellite input on the SA.
5. Test it by placing the analog receiver on Galaxy 6, C-16 where you should have Shepherd's Chapel. Move back to channel 24 where you should have the digital signal.
6. If you have done step D, you should have a signal to make sure your connections are o.k. If you have not completed step D, do it now to obtain a digital signal.

Remember, if you use the dual use option outline here, you will need to have both the SA and the Chaparral on to view a program. The Chaparral is not generating the digital picture, only acting as a switching device.

For sites that use another analog receiver—you will either need to switch cables between receivers or purchase a switching device at an electronics store.

How to get 3ABN Using Your Analog AND Digital Receiver

These steps are not necessary to get ACN broadcasts and should only be followed if you feel you must get 3ABN before your complete digital equipment arrives. They require more steps and more dish movement, and a good memory to know where to go the next time you want the program.

The principle here is the same as getting ACN events—use the analog receiver to point the dish and the digital receiver to tune in the satellite and polarity, then program the digital receiver for the program you want.

The 3ABN section of these instructions assume you have followed all previous steps with success and that the two receivers are connected as described in section A. When searching for a picture on the analog system the satellite antenna cable must be connected to the Chaparral. When searching for the digital signal it must be connected to the SA. If you are using a splitter you won't need to change cables

H: Setting a satellite in the right position

1. Use the Chaparral receiver remote to press SATELLITE. Point at Telstar 5 and press SELECT. Go to channel C-19 where you should find a Jewelry sales channel.
2. Press Menu and select 1:Channel Menu. Point at the line that says DISH POSITION.
3. While pointing at the DISH POSITION line hold down the RIGHT arrow on the cursor pad until you hit a picture. This is usually a religious channel and not too far away from Telstar 5.
4. Press CLEAR one time and then press SELECT to save this new location (We are temporarily using Telstar 5 to point at the correct location for GE 4).
5. Go to channel 25 (K1) then start scrolling up through the Ku channels. You will probably find at least one test pattern. This is to verify that your Ku LNB is working.
6. Place the Chaparral on Channel 28 (K-4).

I. Setting Up A Channel for 3ABN

1. With the Chaparral on channel 28 (K-4) Press MENU and select Menu 2: Video Menu.
2. You should be pointing at the line VIDEO SOURCE: Press the RIGHT arrow on the cursor pad until that line reads INPUT 1.
3. Press the Menu button to advance to Menu 3:Audio Menu.
4. You should be pointing at the line AUDIO SOURCE: Press the RIGHT arrow on the cursor pad until the line reads INPUT 1.
5. Press CLEAR until all menus are off the screen.

6. Turn on the SA and you should see a screen with a light blue boarder and the words No Signal. This means you are now seeing the signal from the SA.
7. Make sure you repeat Step C if you are not using a splitter.

J. Programming the Digital Receiver for 3ABN.

Follow Step D above but use the following numbers for each line. Ignore error messages.

Receiver Setup (default numbers may vary)

Freq Mode	Downlink	Network ID	1
Frequency	11.80700	AFC Level	Varies
L. O. Freq #1	10.750	Signal Strength	Varies
L. O. Freq #2	11.700	Signal Quality	Varies
Crossover	12.600	Signal State	Varies
Polarization	H(fixed)	Find	Off
FEC	3/4	2. Search Setup	
Symbol Rate	4.0000	1. Exit	

1. Once all these settings are correct press MENU on the SA Remote.
2. When prompted, press 1 to save changes.
3. You should lose all the SA menus and have a black screen on your TV. Press the Up arrow on the remote to advance to the first 3ABN channel.

K. Using ACN and 3ABN

There are now three things to remember when you want to watch ACN or 3ABN:

1. Pick the correct satellite for your system
 - a. ACN Bulletin Galaxy 11 or 4 = Chaparral Galaxy 6 Channel 24 (C-24)
 - b. 3ABN GE 4 = Chaparral Telstar 5 (relocated) Channel 28 (K-4)
2. Change the satellite cable to the correct receiver (or use splitter).
3. Give thanks for the Satellite System Controller you will soon receiver to make this all “push button” easy.