

Volunteer Satellite Distributors

www.volsatdist.com

Authorized Motorola Satellite Receiver Distributor

61A Parris Ave, Nashville, TN

TN: 800-726-1298

IN: 888-592-3030

VA: 888-844-1040

DSR905 4DTV Sidecar Installation / Troubleshooting Guide

This is not intended to replace the manual that came with the receiver but to be used as a supplement to it.

1

The Preliminaries: First position the dish to what the satellite guides call G10 or G0 (some older receivers may still be calling this satellite G9 or T3) before you disconnect the analog receiver. Tune in this satellite as much as possible. Make connections to the receivers as per the "Connections" Section of the manual, do not just rely on the descriptions on the back of the receiver.

Connect power to the receivers and turn it on. If you are using a GI 450I, 550I or 650I analog receiver do not power it up at this time, see below. The Sidecar will go through a "warmup" process before it powers completely up, usually 30 seconds. It may be necessary to press the A/D button on the remote to display the picture from the Sidecar.

The GI 450I, 550I or 650I analog receivers use the same remote frequency as the Sidecar. You will need to change the Sidecar's remote control frequency so it will not interfere with each other. Press **OPTIONS 6, 3, 1 (SET REMOTE CONTROL ADDRESS)**. Follow the directions on the screen to change the address of the Sidecar's remote control. The changed address will not show on the screen until you press **ENTER** to save the change in address. Use 001, 002 or 003. Press **GO BACK**. Power up the analog receiver. It may be necessary to press the A/D button on the remote to redisplay the picture from the Sidecar.

2

LNB Type: Press **OPTIONS 6, 3, 2 (LNB TYPE)**. This is where you set the system for the correct LNB configuration. The satellite selection screen will only display the satellites that agree with this setting. For instance if you choose Cband LNB it will only display Cband satellites, no Ku satellites will appear in the list. The same applies for the IPG.

FEEDHORN POLARIZATION typically is STANDARD. If you are not sure leave it in standard mode. If later you find the feedhorn is rotated, press **3 (FEEDHORN POLARIZATION)**, to change to ROTATED. Press **GO BACK**.

IPG Option: Press **OPTIONS 6, 4, 1**, Use the **ARROW** key and move the yellow cursor to **YES** on the line for **ALLOW DISH MOVING FOR UPDATES**. This allows the dish to move automatically between 2am and 5am each day for IPG Updates.

FEEDHORN POLARIZATION typically is STANDARD. If you are not sure leave it in standard mode. If later you find your feedhorn is rotated, press **4 (FEEDHORN POLARIZATION)**, to change to ROTATED, Nor should you have to change option **3 (ADJUST LNB OFFSET)**. Press **GO BACK**.

Memorize Useable Satellites: Press **4 (MEMORIZE USEABLE SATELLITES)**. Use the arrow keys to highlight the satellites you want the Sidecar to have stored into it's memory. Press **ENTER** after highlighting each satellite. Use a channel chart to help select the desired satellites since all of the satellites do not have digital channels. Press **GO BACK** then **EXIT** when you are finished.

3

Mapping the Sidecar: This is the part that confuses most people so read carefully. To Map the digital channels press the blue **SAT** button then select **G0** from the satellite grid then press **ENTER** (you can also direct enter the satellite designations on the remote control as well). Press **9, ENTER**. The screen will display the message: **You have chose an analog channel.....** Just press the **A/D** button a couple of times.



Good Signal



Poor Signal

Look at the front panel of the Sidecar. The Dish light (shown left) should now be Green. If it is Red, additional tuning of the skew or dish position may be needed. The Skew is adjusted by pressing the left or right arrow button on the remote control then use the arrow button to adjust. The Dish position will have to be changed on the analog receiver. Watch for the Dish light to change while you are adjusting the dish position.

When you have a Green light the Sidecar will begin the "Mapping" process. Allow the Sidecar to sit for 10-15 minutes. Unlike the DSR920 and DSR922 4DTV receivers, the Sidecar does not have a "Channels" counter you can watch.

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Getting The Guide: After the mapping has completed, this would be a good time to call your programmer to have the digital programming and IPG activated. Depending on when this Sidecar was made, the Unit ID may need to be calculated. Press **OPTIONS 6, 4**, The unit ID is on line A. This is the number the programmer will need.

If the number starts out with "0014" you're good to call the programmer.

If the number is anything else, this will need to be calculated for the correct Unit ID. Most programmers can do this for you but in case they are not able, here is the formula:

You need the decimal Unit Address, it is located in two places: a. On the back of the unit immediately to right of power cord connection b. Use your remote and press Option 6, Option 4, the U/A is located on Line A

To translate the decimal U/A into its hexadecimal equivalent please do the following:

1. On every PC there is a calculator that performs both standard and scientific functions.
2. To get to the calculator go to Start, then Programs, then Accessories, then Calculator. Click View then select Scientific to put the calculator in Scientific mode, confirm Dec dot is checked.
3. To get the correct hex U/A, you need to remove the last 3 digits from the decimal U/A before you do the conversion, the last 3 need to be done separately.

For example, **Decimal U/A - 000-03419 -95492-236**

a. Type 341995492 then click the Hex dot to get **0014626FE4**

b. Write that number down then click CE

c. Click the Dec dot then type 236, then click the Hex dot to get **EC4**.

The resulting alphanumeric number is the hexadecimal U/A - **0014626FE4-EC**

Please use a permanent marker and write the hexadecimal number on the back of the 4DTV Digital Sidecars (DSR 905) AND on the first page of the owner's manual. It is important that your customer always have this number available so they can handle their own programming needs.

If you are unable to translate the number successfully you may call 800-308-4350, and Motorola will assist you with the decimal to hexadecimal translation.

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While you're on the **OPTIONS 6,4** screen watch the **TRIP** counter indicator to increase when the Sidecar receives the authorizations. Press **EXIT** to close this screen when the process is over. If the VC module is not authorized for programming, you will also need to take a hit on a Videocipher channel for the analog programming to authorize.

Press **GUIDE** to download the current IPG. This process will take a few minutes and will have a different appearance than the DSR920 and DSR922 receivers have as they download the IPG for the first time.

When the Guide displays, press **EXIT**.

The Sidecar is now authorized and is ready for operation. If the customer has HBO or Starz, please confirm proper reception of those services on G1. They will be the most difficult to tune in. See the Troubleshooting section below if needed.

Please remind the customer they will need to move the analog receiver to G0 and turn the Sidecar off at night to download the IPG automatically.

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Troubleshooting

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NO DIGITAL LOCK

Some digital channels are a little harder to receive especially the HBO and Cinemax channels on G1.

If you are on a known digital channel but you are instead seeing “**CANNOT FIND CHANNEL, CONTINUING TO SEARCH**”, you will need to do a little extra adjusting to the skew and/or dish position. Press **the left or right arrow button to bring up the tuning screen**. Play with the skew setting in small increments to achieve the highest quality. When you are satisfied with the picture or signal reading, press **ENTER** then **EXIT** to save the adjustments. Try moving the Dish position on the analog receiver a little. If this fails read below.

If you still aren't getting a digital signal, there are a few things that can cause this:

The Focal Length. If you are installing the 4DTV on an existing analog system, even if the system is only a few years old, the Focal length may have been good enough to receive an analog channel but it may not be good enough for a digital signal. A slight adjustment may make a big difference.

The LNB. If you are replacing an existing analog receiver on a system, even if the system is only a few years old, an old or higher temperature LNB may have been good enough to receive an analog channel but it may not be good enough for a digital signal. You may need to replace it with a lower temperature LNB. Different brands of LNBs can also be a problem. Each manufacturer has a different set of tolerances they use to make LNBs. Cheap LNBs tend to have a lower tolerance and will not remain stable for a long period of time. If the customer has noticed a lot of sparklies in reds or yellows, replace the LNB and try again.

RECEIVER STAYS IN WARMUP MODE

Sometimes a receiver will stay in the “Warmup” mode. You can try removing and inserting the power cord a few times. Sometimes it works, sometimes it doesn't.

SATELLITE CHART IS MISSING STORED SATELLITES

Static is this receiver's worst enemy. This condition happens when the receiver takes a static hit or it can happen after a power loss.

Unplug the unit from the power source for a few minutes then plug it in again. They should return. If not, repeat the procedure again.