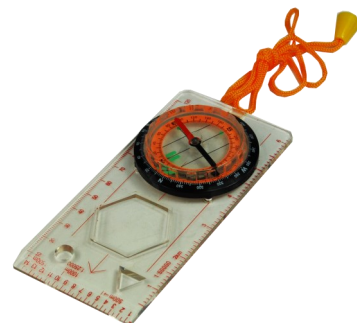


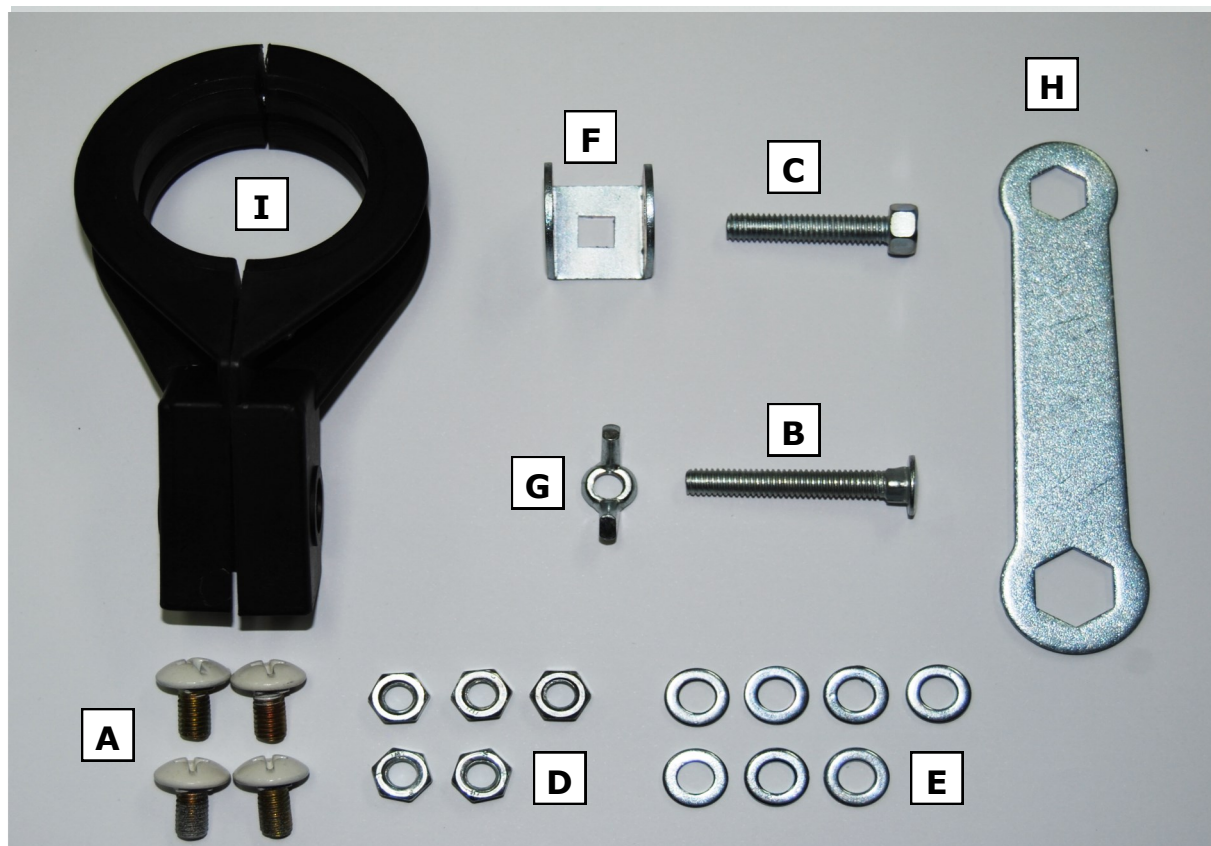
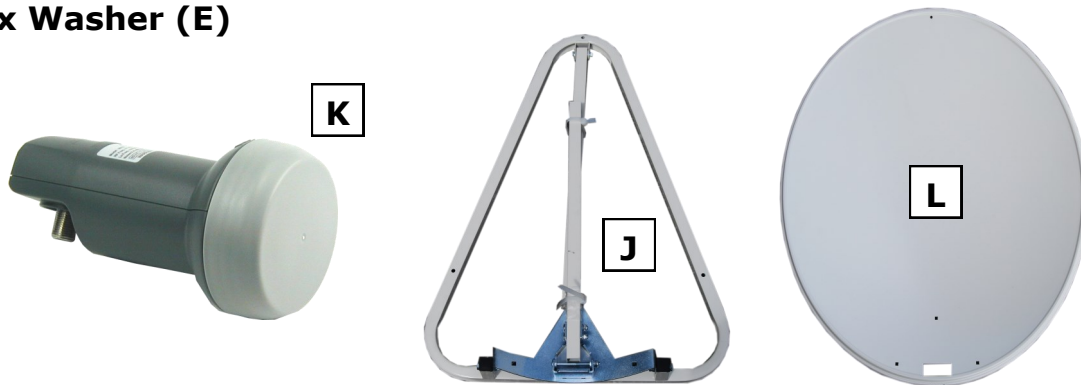
# VAST Folding Satellite Dish Kit



**These instructions will give you a step by step process to set up your VAST Folding Satellite Dish Kit.**

**Your kit should contain:**

<b>1x Satellite Dish (L)</b>	<b>1x Elevation Arm Holder (F)</b>
<b>1x Satellite Dish Base (J)</b>	<b>1x Wing Nut (G)</b>
<b>1x LNB (K)</b>	<b>1x Spanner (H)</b>
<b>1x Digital Satellite Finder</b>	<b>1x LNB Holder (I)</b>
<b>1x SatKing Satellite Receiver</b>	<b>1x F-Joiner</b>
<b>1x 2m Coaxial Cable</b>	<b>1x Dish Bag</b>
<b>1x 10m Coaxial Cable</b>	<b>1x 12 Volt Cable</b>
<b>4x Bolt Phillips Head (A)</b>	<b>1x Compass</b>
<b>1x Bolt (B)</b>	<b>3x Pegs</b>
<b>1x Bolt Hex Head (C)</b>	
<b>5x Nut (D)</b>	
<b>7x Washer (E)</b>	



## Assemble The Satellite Dish

**Step1:** Attach Elevation arm holder "F" to the satellite dish. Use 1x Philips head white painted bolt "A" through the hole at the top of the satellite dish and through Part "F", the head on the white bolt will be facing the front of the dish. Now fit 1x washer "E" and 1x nut "D" to the bolt. Align part "F" as per (image 1) now hand tighten as firmly as possible and this step is complete.

**Step2:** Connect the Elevation arm to the elevation holder part "F" as per (image 4), to do this place 1x washer "E" on bolt "C" now insert bolt "C" through part "F" and fit 1x washer "C" and wing nut G. Now loosen the black knob on the elevation arm and hook the arm on to the LNB holder as per (image 2) and then re-tighten. The satellite dish is now fully assembled and you are ready to start the alignment process.

**Step 3:** Using LNB holder part "I" remove the 2x self tapping Philips head screws and fit the LNB part "K" into the holder as per (image 3) now re-tighten the self tapping screws. Now slide part "I" over the end of the LNB arm as per (image 3). Then using bolt "B" insert this bolt completely through the LNB holder and LNB arm, now fit 1x washer "E" and 1x nut "D" to the bolt and use spanner "H" to tighten. This step is now complete.

Image 1



Image 2



Image 3



## Setting LNB Alignment "Skew"

Now that your dish is assembled it's time to set LNB Skew is the rotation of the LNB within the LNB holder part "I", this position changes as you move around Australia. When you are on the east coast you rarely need to adjust this after the initial setup but as you move west through SA, NT & WA you will need to adjust this. Also in WA as you head north from Perth you will also need to adjust this as compared to east coast travelling north and south requires no adjustments until you go north of Townsville. To adjust the LNB skew stand in front of the dish and turn the LNB so that the LNB is in the correct position for your area. There are two ways to work out the adjustment for your area. See below.

**Method 1 (the easy way)** Loosen slightly the 2x Self tapping screws in the LNB holder now we will use the O'clock method as shown on (image 9, shows 7.30 o'clock). For most of Eastern Australia the position of the cable coming out of the LNB for VAST will be 7.30 o'clock (as you stand in front of the dish. As you move into SA and the NT this will be 7 O'clock and for Perth the cable will point straight down like 6 o'clock. Once adjusted correctly tighten 2x self tapping screws.

**Method 2** Loosen the 2x self tapping screws in the LNB holder now refer to the signal detection page in the receiver, enter this via the signal finding page in the menu. If you enter your precise location when you use select your state and the select your position pages, you will then confirm the LNB LO setting is 10700 (default) and then press ok you will land on the signal detection page. Here you will see the dish pictures with the exact LNB skew setting for your location. The LNB part "K" has small lines marked on the top of it (image 10) these lines represent 5 degrees. For positive values rotate the LNB clockwise and for negative rotate the LNB anticlockwise, the lines on the LNB will always face up. Image 10 is set at +31 Degrees for Melbourne, you can see the join in the LNB holder this is the reference line. Re-tighten the 2x self tapping screws.



## Sat Finder Connection

Connect the supplied short 2M cable to the LNB on the dish and connect the other end to the **"satellite connector"** on the sat finder (*image 11*).

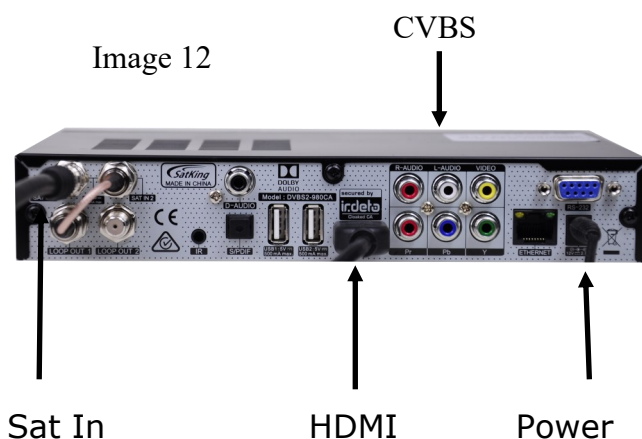
Image 11



## TV Connection

To connect the receiver to your TV (*image 12*) you can use the supplied yellow, red and white cables (known as AV or CVBS cables) or the optional HDMI cable. It is important that you connect the cable into the correct input on your TV, many TV's have outputs so make sure you plug into the inputs. TV's generally have many inputs as example AV1,AV2 (also known as CVBS), HDMI. Once you have plugged your AV or optional HDMI cable in you will need to Turn both your TV and receiver on then select the correct source (also known as mode or input). This is not done automatically by your TV. Press the source button and scroll to the input you have used, the TV will also have on the list other sources like DTV,DVD,ATV, you need to select the correct one for the yellow red and white cables select AV,AV1,AV2 or CVBS.

Image 12



## Can't See the Receiver on your TV?

Check the corresponding label on the port you connected your cables into. If you have connected the cables and selected the correct source (input), you should now be able to see the receiver menu or warning messages on your TV screen. If you only see a "No Signal" message on your TV screen that is not orange colour the message is from your TV this means you have selected the wrong source or the cables are connected to the wrong ports.

## Connect the Long Coaxial Cable

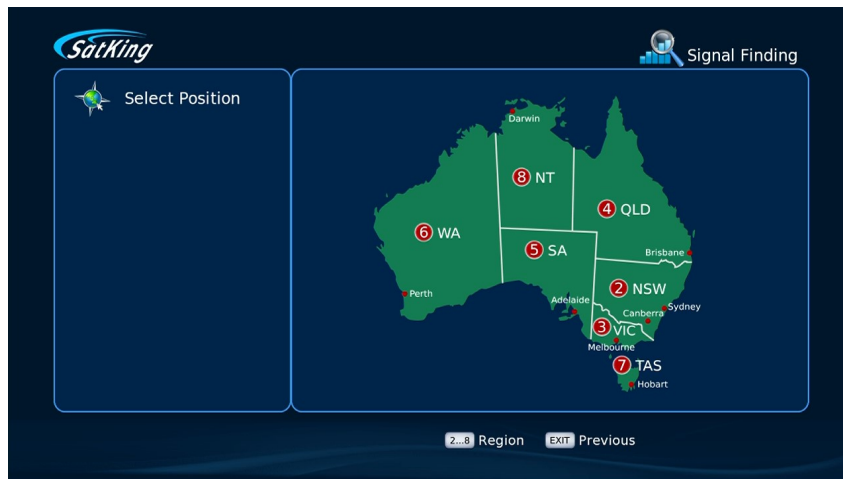
Now that the TV is connected and the receiver can be seen on your TV you can now connect the long coaxial cable to the "Sat In" (*image 12*) on the back of the receiver. **Hand Tight Only** for all the coaxial cables. No need to connect the long cable to the LNB on the dish yet.

# VAST Satellite Location Instructions for SatKing DVBS2-980CA and SatKing SK3200 Meter

Navigation of the SatKing menu system can easily be done using the arrow buttons on the remote. Confirming a selection is done with the OK button.



Power on SatKing Receiver and roughly position the elevation of your dish using the quick reference elevation map later in this manual. The elevation scale is on the side of the dish bracket. Point the dish north if you are the eastern states of Australia and further north east as you head into central and WA. Now press menu (if no response press exit twice first) and select "Signal Finding". Then with the numbers on your remote choose your state.



Now with the arrow keys on your remote, position the cursor close to your location. Then select "Ok". The next page is the Signal Detection page. It's here that you can check your signal and quality levels as you search for the signal with your sat finder. If your levels are lower than 80% Signal and 50% Quality, you will need to reposition your dish. IF the levels are both zero you haven't found the satellite as yet. Also the LNB LO settings (the LNB is located on the arm of the dish) are listed here, make sure the number set in the LO field is 10700.



The level bars may be present briefly even when there is no signal, this is just noise. As the signal level starts to increase both level bars will start to increase. The signal quality should be 50+ and green, this means you have located the Optus 10/D3 satellite.

### Using the Satfinder to Locate the Satellite

Turn on the SK3200 Sat Finder, you will see the strength and quality bars. At this time they will show zero on both signal and quality.

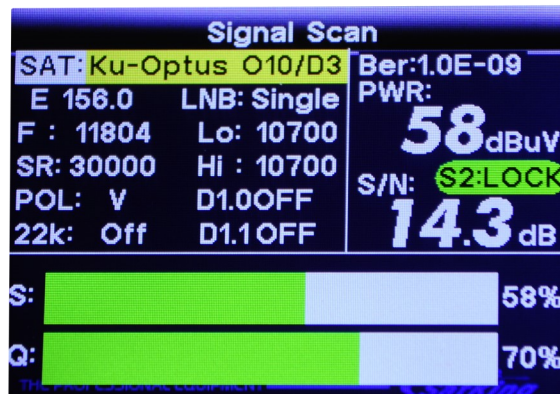
Scan the sky very slowly for the signal from west to east around the coordinates listed on the signal finding page. As you move the dish and you get close to the satellite the signal will increase as will the noise of the buzzer (if turned on), now move very slow and the quality will start increasing, when the quality is above 50% you can fine tune. By making fine adjustments (only millimeter or two at a time). You want the quality to be around 65% to 70%.

If you have trouble finding the signal your mount or tripod stand may not be on flat ground so broaden your search by increasing or decreasing the elevation of the dish. Move slow is the key.

To check the settings are correct on the sat finder if the default settings have been accidentally adjusted check them here:

#### SAT: Ku-Optus O10/D3

E 156.0	LNB: Single
F: 11804	Lo: 10700
SR: 30000	Hi: 10700
POL: V	D1.0 OFF
22K: Off	D1.1 OFF



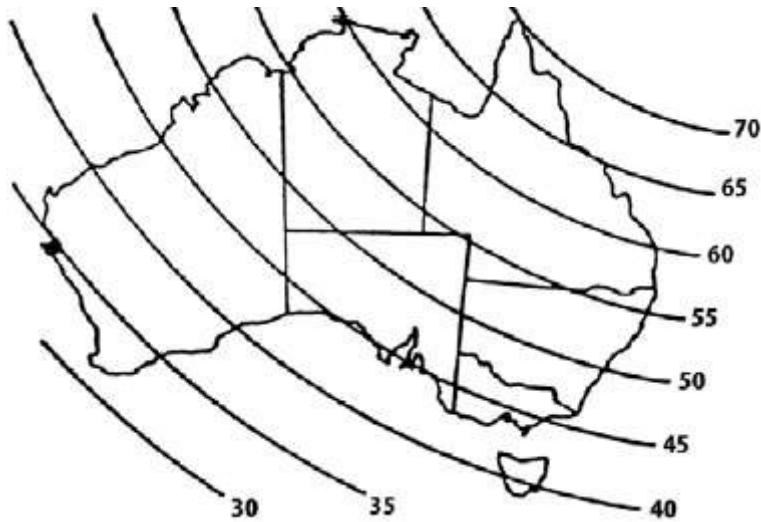
Once you have 60+ signal quality on the finder, you can now connect the long coax cable from the receiver to the LNB on the dish (or use a F-jointer to connect the short coaxial cable to the long cable). You will notice that now the signal bars on the decoder have sprung to life. The "Q" level on the decoder to above 50% to provide uninterrupted TV. If you like you can try to get it higher but this will not improve the picture quality it will just reduce rain fade during storms.

If you have a signal and quality on the sat finder but have no signal and quality on the decoder you maybe on the wrong satellite, please keep moving the dish until the signal bars on the SK3200 meter register. Then check decoder the readings again these need to be above 80% signal and quality above 50%. **Note:** The bars on the receiver will only display green when you are the correct satellite (Optus O10/D3). Now that you have green bars move to the next step, if not repeat the above.

To complete the installation process press OK twice on the remote and if all is correct the receiver will scan in the channels and move to channel 800 (Info Channel) **Contact the call center on 1300 993 376 or online at [www.mysattv.com.au](http://www.mysattv.com.au), to activate your receiver and card.**

To get the card activated the box must have a signal and receiver **must** be left on to get the activation. Once your card is activated the box will auto retune opening the channels you have been granted access to, activation may take 24/48 hours but re-hits take 10 seconds. The re-tune may happen twice as the commercial channels and the government channels may not be activated at the same time (maybe 30 minutes apart).

## QUICK REFERENCE ELEVATION MAP



The above map provides a quick reference to the elevation angle required for the Optus O10/D3 satellite. The numbers above refer to the angle in degrees that your dish must be set to. Set your dish to the specified elevation angle and work your way up/down in 1 degree increments as you pan from left to right.

### Error Codes:

<b>Code</b>	<b>Issue</b>
E04-4	Smart card is not inserted.
E06-4	Smart card in the wrong way, remove and re-insert.
E107-4	Smart card not activated.
E16-4 or 19-4	The subscription may have expired, after 30 minutes call VAST Call Centre –1300 993 376.
E30-4	Smart card is activated, please wait or re-hit the card.
E48-32	Momentary loss of signal please wait.
E50-32	No Services Available - Dish is not aligned
E120-4	The card is updating, please wait.
E133-4	The card is updating, please wait.

These codes will be generated by the set top box and will appear on the TV screen if there is a problem. If a code appears on the screen that is not listed here first wait a few minutes and try again, if still no success re-power the unit.

# Frequently Asked Questions About VAST

## **1. Can I receive non VAST channels with VAST receivers?**

It is a condition of the VAST platform that VAST receivers can't receive channels that are not broadcast by the VAST broadcasters. The TP edit function is of limited function and will only allow channels to be scanned in that have VAST channel ID's.

## **2. Can I use my VAST satellite TV card in other VAST set top boxes?**

VAST Smart cards are paired to each individual VAST receiver and can't be used in other VAST receivers or non-approved 3rd party VAST receivers.

## **3. Can I watch recordings made by my VAST set top box on other devices or my PC?**

It is a condition of the VAST platform that you can only playback recording made on your VAST decoder on the actual VAST decoder the recording was made on.

## **4. E50-32 No service available is showing on my TV screen.**

This is very common and can mean a number of things.

Check that your cable from the dish to the SatKing DVBS2 980CA Vast receiver is connected correctly. Check that your signal levels and LNB settings are correct by go into signal finding menu. Follow the prompts as you head through the menu.

1. Press the menu button and highlight signal finding, press ok.
2. Select what state you are in with the numbers on the remote.
3. Then select where you are located in that state by moving the cursor with the left and right and up and down arrows on the remote.
4. The next page is the signal detection page. On the bottom of that page there will be two bars, the top is your signal level, and the bottom is your quality. If these bars are green, you have signal. The Signal level should be more that 70% and the quality should be more that 50% If the bars are blue or yellow or are not showing a percentage level, you may not have enough signal. The dish may require re-positioning. Its also here that has LO setting or LNB settings are listed. The setting should be 10700, but if you are using a dish that is more than 6 years old your system maybe using 11300. If you have a marine system generally these are custom universal.

This page will give you information about positioning the dish. When you move your dish, the bars will move with you. Remember to move the dish slowly and gently, to allow the signal to reach the SatKing Vast receiver. Once you have good signal the bars will turn green. Another feature of the signal finding menu is the beeper, this will increase in speed as the signal level increases (note if you turn the volume down whilst using that function the beeper will no longer be heard and you will need to factory default the receiver).

5. Press ok on the remote twice. By doing this, the SatKing Vast receiver will rescan the channels. The receiver will take you either to channel 800 the information channel. This means your SatKing Vast receiver is working correctly and your can call the call centre to be switched on. After the rescan if you are taken back to the page with your serial number and card number, there may still be an issue. Contact your dealer. In general if this is your first setup of a mobile dish that sits on the ground the issue will be your alignment, the first time this can take some time and you do need to move the dish very slowly to find the signal.

**6. I have a E-52-32 Searching for signal message on my TV screen.**

If you have had TV and now this has appeared this means you previously had signal but now due to heavy cloud/rain or a cabling/dish alignment issue you now have lost signal. We recommend waiting for 15 minutes to see if the weather clears after this time investigate alignment.

**7. My EPG or channel list has the incorrect time on my SatKing DVBS2 980CA Vast Receiver. How can I change it?**

This may occur when you travel from one region to the next. To check what region your SatKing DVBS2 980ca Vast receiver is set to follow these easy steps.

Press the menu button in your SatKing remote

Highlight Settings and press OK

Highlight common settings

Check what region is listed

If it's not the region you are located in, simply adjust by highlighting the region. And, changing with area with the left or right arrows on your remote.

**8. My USB Stick or HDD doesn't work correctly with my SatKing VAST receiver.**

Press the PVR button on the remote and select the PVR Function menu, then select HDD Speed Test. This test will take a minute or so to check the speed of your device, if your USB device is too slow use a different USB device. Note: This VAST receiver is High Definition and requires good data speed from USB devices to work correctly.

**9. What is the Ethernet port on the back of my SatKing DVBS2 980CA Receiver used for?**

This port is for Freeview catch up TV services.

**10. What is the maximum size HDD that can be used with the SatKing VAST Receiver?**

At this stage 3TB is the maximum size HDD that can be used with the VAST receiver, either NTFS or FAT-32 formats can be used.

**11. What is the password for my VAST receiver?**

The password is 1234.

**12. When using scheduled record how can I adjust the start and finish time on my VAST set top box?**

When in the scheduled record screen use the right and left cursor buttons move the underscore symbol under the time or date you want to adjust and press any number key on the remote control to adjust.

**13. Why is there a music symbol on my TV screen and i can't watch any TV channels?**

You have pressed the TV/Radio button and have entered the radio station section of the VAST receiver. Press the TV/Radio button again on the remote to enter the TV section again.

#### **14. How to use the Learning Remote Function?**

The remote control of the SatKing DVBS2-980CA can take over the main controls of your TV remote control, no need for 2 remote controls any more.

- Depress SET key of the Satking remote control for 3 seconds to start learning process (you will notice the red light on the remote increases in intensity) the red light will stay solid whilst in learning mode.
- Aim the TV remote control at the sensor on the end of the SatKing remote.
- Depress the key in the learning section of the Satking remote you want to pair (eg; Volume up) then press the button on your TV remote that you want pair eg; Volume up). The light will flash slowly as the Satking remote is receiving the remote signal from the TV remote and when learning is completed the red light will flash very fast and then go back to solid, this means the pairing is done. Move on to pair the next button (no need to press set again just keep on pairing).
- When you have paired all the buttons you want to pair simply press the SET button once and the learning mode will be turned off.
- If you want to pair a different remote simply repeat the process, there is no need to re-set the remote just simply repeat the above steps.

#### **15. VAST Call Centre information:**

Phone: 1300 993 376

Website: <http://www.mysattv.com.au/>

#### **16. How to re-hit my Smartcard:**

Firstly make sure you have channel 800. Then go to the website **[www.myvast.com.au](http://www.myvast.com.au)**

Click on "Reactivate my VAST service" located on the left hand side of the page.

Enter your smart card number and click "Reactivate". Check the channels are there, if not contact VAST Call Centre.

To find your smartcard number press "Help"

The number is at the top of the page.

#### **17. Still Having Trouble?**

Speak to your dealer or place of purchase to seek assistance.