Setup and mounting instructions for Moteck SG2100A using Usals (Diseqc 1.3)

Firstly you must oil the U bolts

Next assemble the motor and set the latitude (not elevation) on the motor to your latitude. You can obtain your latitude and longitude from the local airport or a GPS or you can look it up on internet. It only needs to be accurate to one decimal place.

After this make sure your mounting pole is level

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Attach the motor to the mounting pole

Attach the dish to the motor so that the dish is square or symmetrical with the motor.
Tighten up the U bolts permanently. They don't need to be adjusted again.
At this stage it does not matter where the dish is pointing.

Make sure your coax from the satellite receiver to the motor is connected.
Go to dish setting and make sure your Lnb settings are OK

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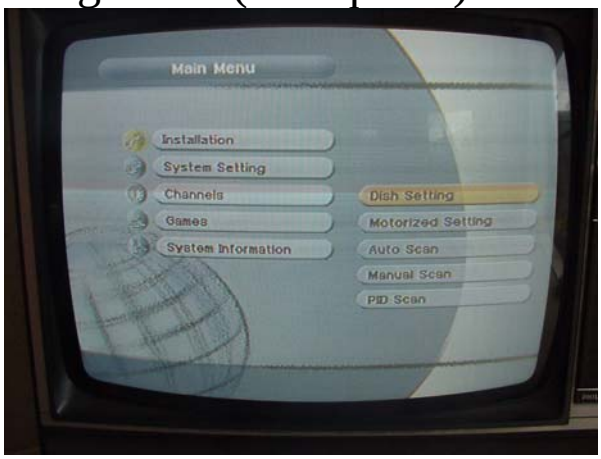
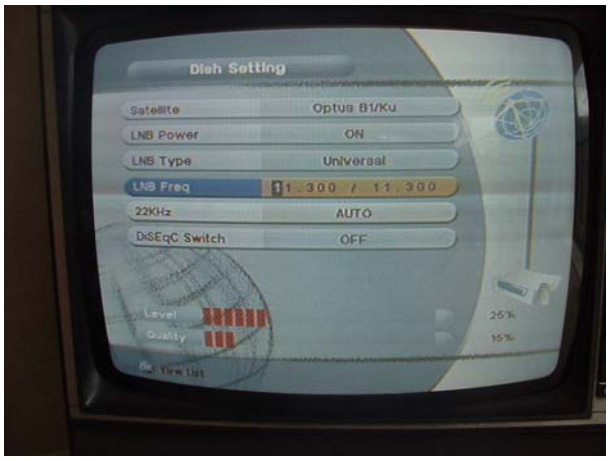
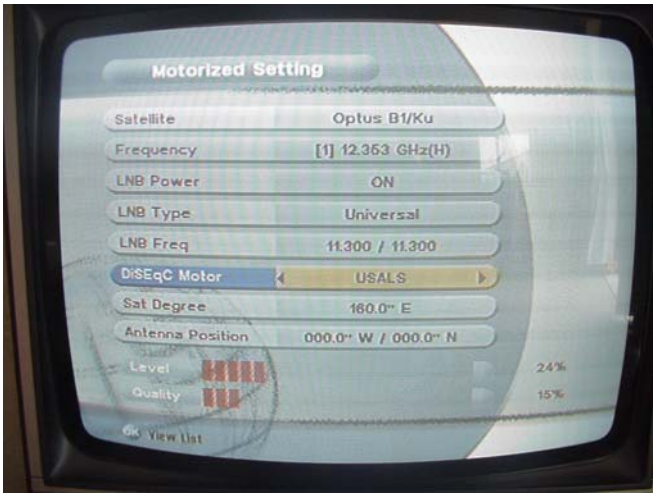




Next go to Motorized settings. Choose satellite B1. Set DiSEqC Motor to USALS.
Go to Antenna Position and enter latitude and longitude for your location



Go to Satellite at the top of the screen and change to another satellite. As you do this you will be prompted to save. Press Yes. Return to satellite B1. As you do this the motor will move to about 20 to the right of center.

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Now return to the roof and align the dish to **B1**.

Left and right movement of the dish is done by rotating the **whole assembly** (motor + dish) on the mounting pole.

Up and down movement is accomplished by adjusting the dish elevation on the dish as below

After you have tightened up all nuts check that Lnb polarity is correct. The cable usually comes out at about 8 o'clock.

Dish alignment is now correct for the whole satellite belt.

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You can now go to each satellite in motorized settings and enable USALS for each satellite that you want to receive. Usually B1, C1, B3
As you go to each satellite the motor will turn to where the satellite should be.
The motor will always go to where the satellite is. If it does not then this means that the alignment is incorrect. The most usual cause of faulty tracking is the mounting pole not being level.

You can now go to Auto scan in the installation menu and scan each satellite
Remember you must be on that particular satellite (via motorized settings) to be able to get any channels