MotoSAT™
MOBILE SATELLITE SYSTEMS

Satellite TV

GUIDE TO
PROGRAMMING
NOMAD SD2 CONTROLLER
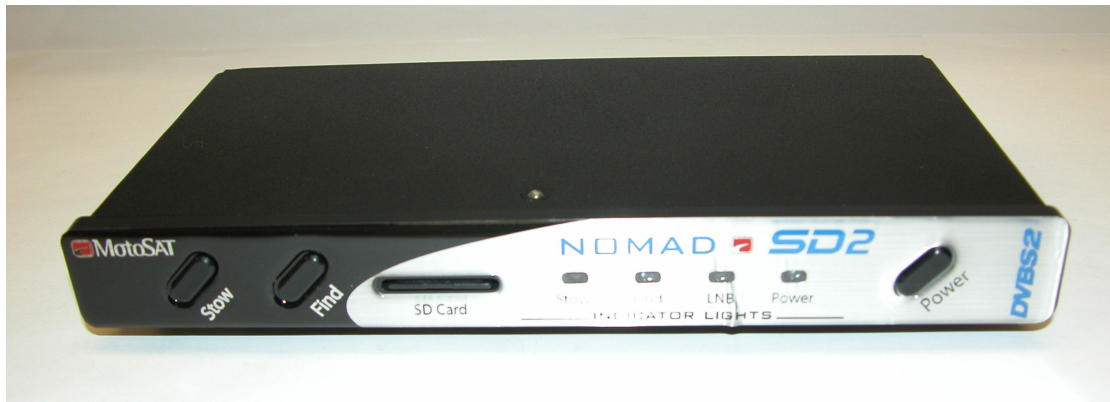
Software Version 37 or higher

INDEX

# PROGRAMMING
NOMAD SD2 CONTROLLER
Using the Front Panel
(With Version 29 Software or greater)

CAUTION!! Do not confuse this software with any earlier versions. If you have a NomadSD.dat file on your SD Card _Remove_ it from the Root Directory FIRST. Failure to do so will cause your Configuration that is stored on the NomadSD.dat file to remove any programming that you may do through the front panel.

This process is only needed to be done once per installation.

The Nomad SD2 Controller can be programmed in simple and easy steps. The **STOW/FIND and the POWER** buttons will allow you to configure your controller properly.

NOMAD SD2 CONTROLLER

STOW   FIND   POWER
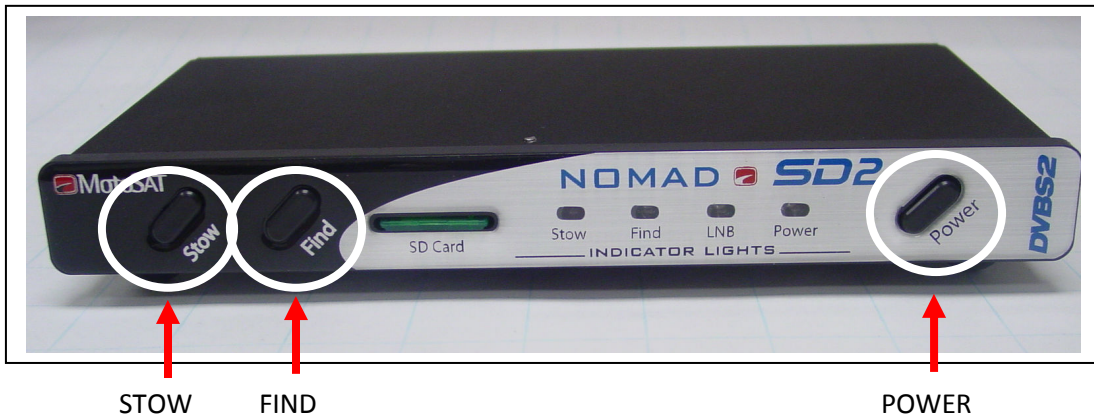
Entering into the **Configuration Mode**

- Hold down the **STOW and FIND buttons and** while continuing to hold, turn the power ON using the **POWER ON button.** Release the POWER button but continue to hold the STOW and FIND buttons for an additional 10 seconds or until you see the STOW and FIND LED's **turn OFF**, **then turn ON again** then release. You are now ready to proceed. If that does not happen, repeat the above process until it does. This will put the controller into the Configuration mode (similar to what you do or have done with the Nomad 2/3 Controller to enter into the Programming Mode.)

CONFIGURING

To SET SERVICE TYPE
> (Pressing the **FIND BUTTON** will toggle through SERVICE TYPE.)

- The **FIND LED** indicates the Network ID (or SERVICE TYPE) selected.   It will **blink the number** of the current settings, pause, and the repeat the pattern according to the following table:

		MOUNT TYPES	
	SERVICE TYPE	NON SKEWABLE *	SKEWABLE *
Slow Blink	1= Dish Network	119/110	110,119
	2= DirecTV	101	99,101,103,110,119
	3= Bell Express Vu	91/82	82,91
Rapid Blink	= SHAW DIRECT SEE "SHAW DIRECT CONFIGURING"**		
	5= Dish Network EAST	61.5/110/119	N/A
	6= Dish Network WEST	110/119/148	N/A
	7= DirecTV ENHANCED	101/119	N/A
	8= Dish Network HD	110/119,129	110,119,129

Show Mode can only be entered using the SD Card. See PROGRAMMING
NOMAD SD2 CONTROLLER Using the SD Card

**SHAW DIRECT CONFIGURING – SIMPLY LOAD SOFTWARE REVISION nsd_1000.hex OR HIGHER.
CONFIGURING IS AUTOMATIC.

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*NOTE: A slash (/) between the satellites indicates the system will only see one satellite at a time. A comma (,) between the satellites indicates the system will see all these satellites at the same time.

Once eight (8) rapid blinks is reached the process will start back at one (1) if the FIND button is pressed again.

To SET MOUNT TYPE
> (Pressing the **STOW BUTTON** will toggle between Skewable and Non-Skewable mount configurations.)

- The **STOW LED** will indicate Skewable or Non-Skewable type mounts
   Skewable = ON,
   Non-Skewable = OFF.

Please note: In the case of Dish Network EAST, Dish Network WEST and DirecTV ENHANCED or a SHAW Direct (Star Choice) mount the STOW LED will automatically be set according to the type of mount used for that particular type of configuration.

SAVING SETTINGS
- To save the current configuration setting, turn off the unit and turn it back on again normally and that will store your settings. At this time **please perform a TEST DISH** to match the Controller to the Mount. After a successful Test Dish….

PRESS THE "FIND" BUTTON TO ACQUIRE YOUR PROGRAMMED SATELLITES.

PROGRAMMING
NOMAD SD2 CONTROLLER
Using the SD Card

Note: This configuration process is **limited to Microsoft PC's. Sorry, no Mac's at this time.**
To use your computer to configure your Nomad SD2 simply format the SD card to FAT32 and:

1. Select "START", "ALL PROGRAMS", "ACCESSORIES" and "Note Pad" on your computer.
2. Enter the Network Configuration number from the selection below **and place it on the first line** of the file. **Just the Network Configuration number is all that you need.** Note: The Freedom Dome system requires special code (see below)
3. Name this file "NomadSD.dat" and save it onto your SD Card in the root directory. Once it is used be sure to place it into the "MotoSAT Configuration File" folder**. This will improve startup time.**

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003 ◄——

This sample configuration is set for
003   **DIRECTV HD SL5** MODE, 5 LNB, *SKEWABLE DISH*

The information below is used for obtaining the Network Configuration Number for proper configuring of the NomadSD. The numbers in the first column determine the Network and mount type being used. Always include leading zeros.

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> Note: NON SKEWABLE dishes will have **a single** LNB.
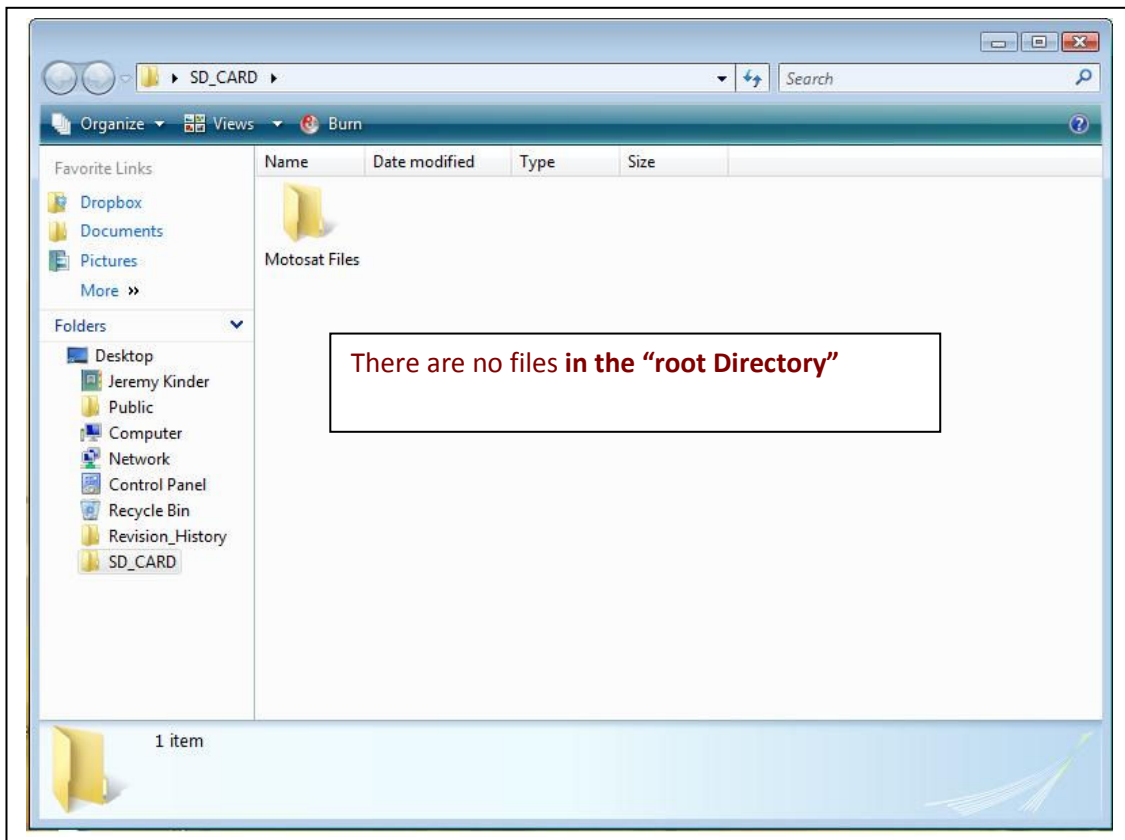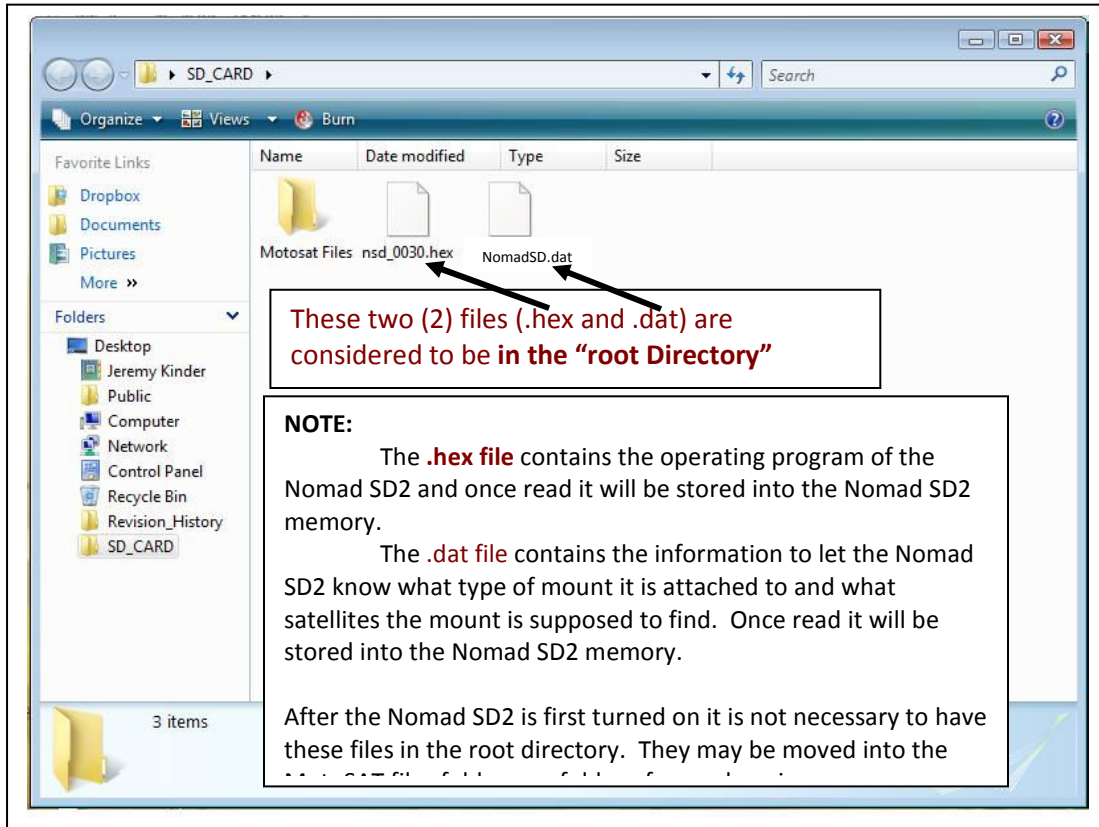> SKEWABLE dishes will have **multiple** LNB's.

000   **DISH NETWORK** MODE, 1 LNB, **NON SKEWABLE,**   **119/110**
001   **DISH NETWORK** *MD500 Style* MODE, 2 LNB, *SKEWABLE DISH* **110/119**
002   **DIRECTV** MODE, 1 LNB, **NON SKEWABLE,**   **101**
003   **DIRECTV HD-SL5** MODE, 5 LNB, *SKEWABLE DISH,*   **99/101/103/110/119**
004   **BELL EXPRESSVU** MODE, 1 LNB, NON SKEWABLE DISH,   **91/82**
005   **BELL_EXPRESSVU HD DP3** MODE, 3 LNB, SKEWABLE DISH,   **91/82**
006   **DIRECTV** ENHANCED MODE, 1 LNB, **NON SKEWABLE,**   **101/119**
       BURN IN MODE, 18 (Factory Use Only)
       CONTINUOUS TEST DISH MODE, SKEWABLE DISH (Factory Use Only)
       CONTINUOUS TEST DISH MODE, NON SKEWABLE DISH (Factory Use Only)
011   SHOW MODE, SKEWABLE DISH
012   SHOW MODE, NON SKEWABLE DISH
       BURN IN MODE, 8 (Factory Use Only)
014   **DISH NETWORK** EAST MODE, 1 LNB, **NON SKEWABLE**   **119/110/61.5**
       BURN IN MODE, 4 (Factory Use Only)
016   **DISH NETWORK** WEST MODE, 1 LNB, **NON SKEWABLE**   **110/110/148**
017   **DISH NETWORK HD-DP3** MODE, 3 LNB, *SKEWABLE DISH,*   **110/119/129**
018 **DISH NETWORK** MODE, 3 LNB, **NON SKEWABLE**   **119/110/129**

To help choose the proper configuration of your mount, refer to one the charts on the next page.

Show Mode can only be entered using the SD Card. See PROGRAMMING
          NOMAD SD2 CONTROLLER Using the SD Card

EXPANATION
SD Card Root Directory

These two (2) files (.hex and .dat) are considered to be **in the "root Directory"**

NOTE:

The **.hex file** contains the operating program of the Nomad SD2 and once read it will be stored into the Nomad SD2 memory.

The .dat file contains the information to let the Nomad SD2 know what type of mount it is attached to and what satellites the mount is supposed to find. Once read it will be stored into the Nomad SD2 memory.

After the Nomad SD2 is first turned on it is not necessary to have these files in the root directory. They may be moved into the

There are no files **in the "root Directory"**

For additional information at this time contact MotoSAT Technical Support @ 800-247-7486

The MotoSAT Technician will ask you
1. **What is your of Mount "Type" (Skewable or Non-Skewable)**
2. **What "Service" do you subscribe to**

Thank you for your assistance,

Your Friends at MotoSAT

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