

Satellite TV

Nomad 2

# Installation Manual

v.1

 **MotoSAT**  
LM-07.19.06

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## **NOMAD 2 Universal Controller Bill of Materials:**

The NOMAD 2 Universal Controller Systems (when shipped with a mount of choice) is shipped with the following components:

Components shipped with **NOMAD 2 Controller**:

- NOMAD 2 Universal Controller
- 12 VDC 4 AMP Power Supply
- User Guide and Installation Manual

Components shipped with your **MOUNT of choice**:

- 30' Control Cable
- 30' Coax Cable



## **NOMAD 2 Universal Controller Specifications**

- 11" Wide
- 7.5" Deep
- 1.250" Height
- 2.7 lbs. Weight
- Voltage Requirements: 12VDC 4 AMP power supply (supplied)

# Nomad 2 Controller

## Designed to be used with

**SKEWABLE** Mounts (Azimuth/Elevation/Skew)

**Model Number**

**MD500  
MD1000.2  
MHDTV  
MSC-60  
HD-SL5  
HD-DP3  
HD-SC2**

**NON-SKEWABLE** Mounts (Azimuth/Elevation)

**Model Number**

**EXECUTIVE 18" / 24"**

# First Time Setup

## TO PROGRAM

Step 1:

Make sure your Nomad 2 is turned OFF:

- Note: The Nomad 2 is OFF when the green light next to the power button is not lit.

Step 2:

Locate the FIND, STOW and POWER buttons on the Nomad 2:

- *Read the following steps carefully before beginning* –
  - Press and hold down together the FIND and STOW buttons, while continuing to hold.....
  - **Press the POWER button once and release**
  - Continue holding down the FIND and STOW buttons for an additional 5 seconds.
- This will put the Nomad 2 into a Program Mode.

Step 3:

Refer to the Programming Options to determine what Program Mode settings you will need for the type of MotoSAT system you have:

- Use the FIND or STOW button to navigate through the different settings on the front LED panel of the Nomad 2.
- When the light configuration on the Nomad 2 matches the Programming Options press the POWER button to turn **off** the Nomad 2.
- This will store the configuration that you have set.

Step 4:

Turn on the Nomad 2 by pressing the POWER button. Wait 5 seconds for the Nomad 2 to perform startup sequences.

## TEST DISH

Step 5:

To complete a “Test Dish”:

- Turn power on
- Push both the FIND and STOW buttons at the same time.
- You will see the STOW light blink. It is indicating that the dish is moving.
- When the Test Dish is completed, the STOW light will stop blinking and go solid.

## TO LOCATE SATELLITE

Step 6:

Press the FIND button.

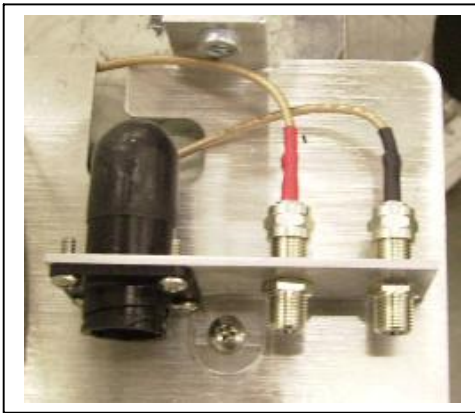
- This will locate your satellite(s) based upon the configuration settings that have been programmed.

# MOUNT CABLE CONNECTIONS

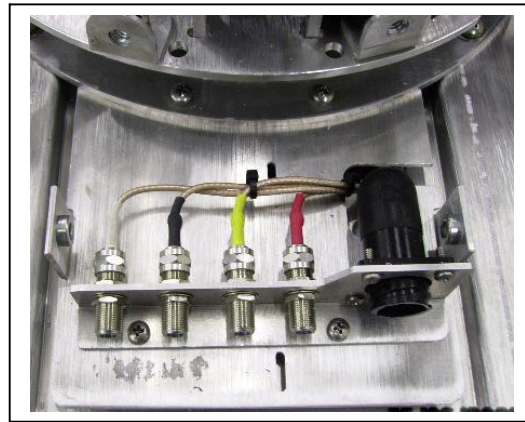
## First Time Installation:

- 1- Plug in all necessary cable connections to the back of the NOMAD 2 (see Nomad 2 Universal Controller Rear View.) **Note:** Plugging the receiver and NOMAD 2 controller into an independent power strip is recommended.
- 2- Connect coax from NOMAD 2 to Mount.

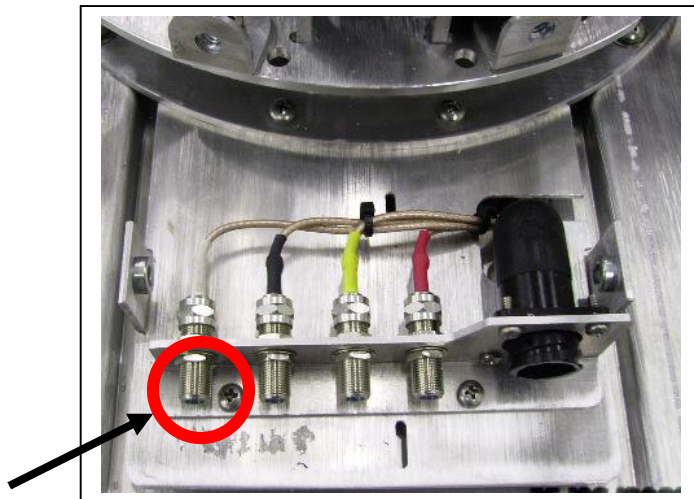
**TWO OUTPUT CONNECTOR**  
Executive 18/24", MD500,  
MHDTV, MD1000.2, MSC60



**FOUR OUTPUT CONNECTOR**  
HD-SL5, HD-SC2



**FOUR OUTPUT CONNECTOR HD-DP3 (Dish Network)**



When using the HD-DP3 for a Dish Network system, this connection is used for “IN” only and **not used for “OUT”**. Its use is for input from an external dish. **Do not use this connection to input to the Nomad 2 or input to a satellite receiver.**

# FRONT PANEL BUTTONS



## NOMAD 2 UNIVERSAL CONTROLLER “FRONT” PANEL

**POWER:** (Provides power to the Nomad 2 Controller)

**FIND:** (Find Satellite)

Pressing the Find button will begin the dish “search” to locate and lock onto the “main” satellite.

**For non-skewable single LNB dishes** pressing the FIND button, while on satellite enables you to switch between multiple satellites. Pressing the FIND button while locked onto a satellite will direct the system to go to the next satellite in order such as:

- DIRECTV can toggle between 101 and 119.
- Dish Network can toggle between satellites 110 and 119.
- Dish Network *International East* can toggle between satellites 61.5, 110, and 119.
- Dish Network *International West* can toggle between satellites 110, 119 and 148
- Dish Network *High Definition* can toggle between satellites 110, 119 and 129 (Note: You must have a High Definition receiver to receive the High Definition signals)
- Bell ExpressVu can toggle between satellites 82 and 91.

**For Skewable multi-LNB dishes** pressing the Find Button will locate all satellites available with your LNB configuration simultaneously.

**For Programming Services and their Assigned Satellites see  
“Nomad 2 Programming Modes”**

**STOW:** (Stowing the Dish)

Pressing this button returns the dish to its stowed or travel position.



# FRONT PANEL LED'S



**LNB**: When lit, this LED indicates the coax cable from the receiver has been correctly connected to the NOMAD 2 Universal Controller, and the receiver has power. (**Note**: The LNB LED is illuminated once the coax cable of the receiver has been connected, but does **NOT** indicate the Controller has power).

**LOCK**: When lit, this LED indicates the “strongest” or “highest” signal strength of the satellite has been achieved and is locked onto the desired satellite.

**DVB**: When lit, indicates that the DVB (Digital Video Broadcast) is powered up and ready to identify satellites.

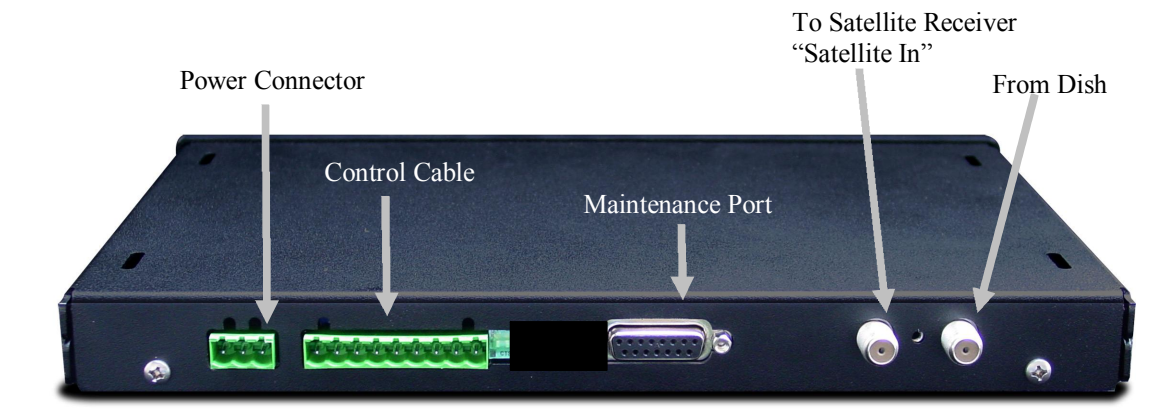
**PEAK**: When lit, this LED indicates the dish has found a signal and is adjusting for the “strongest” or “highest” signal strength of the satellite. It will turn off after satellite “Lock” has been achieved.

**FIND**: When the “Find” button has been pressed, the Find LED will blink (indicating that the dish is moving) until a satellite has been found and identified and can then establish a connection. Once the satellite has been identified, the Find LED will remain solid. (The Stow LED also blinks when motors are moving.) If the Nomad 2 is locked onto a satellite with a skewable dish, pressing the “Find” button again will activate a re-peak routine which will verify the dish alignment to the satellite for optimum signal level for the skewable dishes, the MD500 (for Dish Network) and the MHDTV (for DirecTV). Pressing the Find button on non-skewable dishes (Executive 18” and 24”) allows you to toggle between satellites if so programmed to do so.

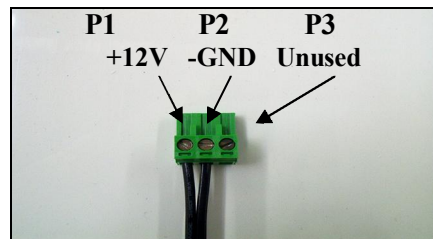
**STOW**: When the “Stow” button is pressed, the Stow LED will blink indicating motor movement as the dish is being stowed. Once the dish has been stowed, the Stow LED will remain solid for a short period of time and then the power will automatically turn off.



# REAR CONNECTIONS

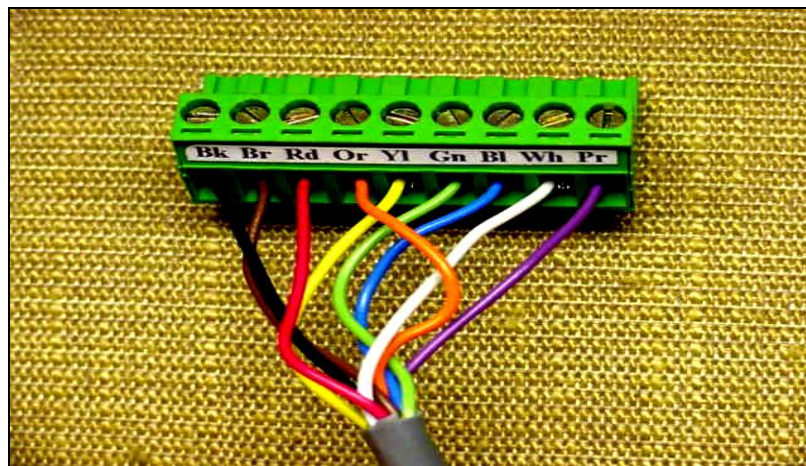


## POWER CONNECTOR



**Power Connector:** Is used to connect the 12 VDC **4 AMP** power supply to provide power to the NOMAD 2 Universal Controller. (**Note:** Only use the power supply provided by MotoSAT.)

## CONTROL CABLE CONNECTOR



**Wiring to 9 Pin Control Connector**  
Black  
Brown  
Red  
Orange  
Yellow  
Green  
Blue  
White  
Purple

(Purple is only used on Skewable Mounts and not required on Non-Skewable Mounts)

**Control Cable:** Connects the mount by way of a 9 pin conductor cable to the NOMAD 2 Universal Controller. The cable is color coordinated for exact connection configuration. (See Figure Below)

**Maintenance Port:** Used to provide software upgrades.

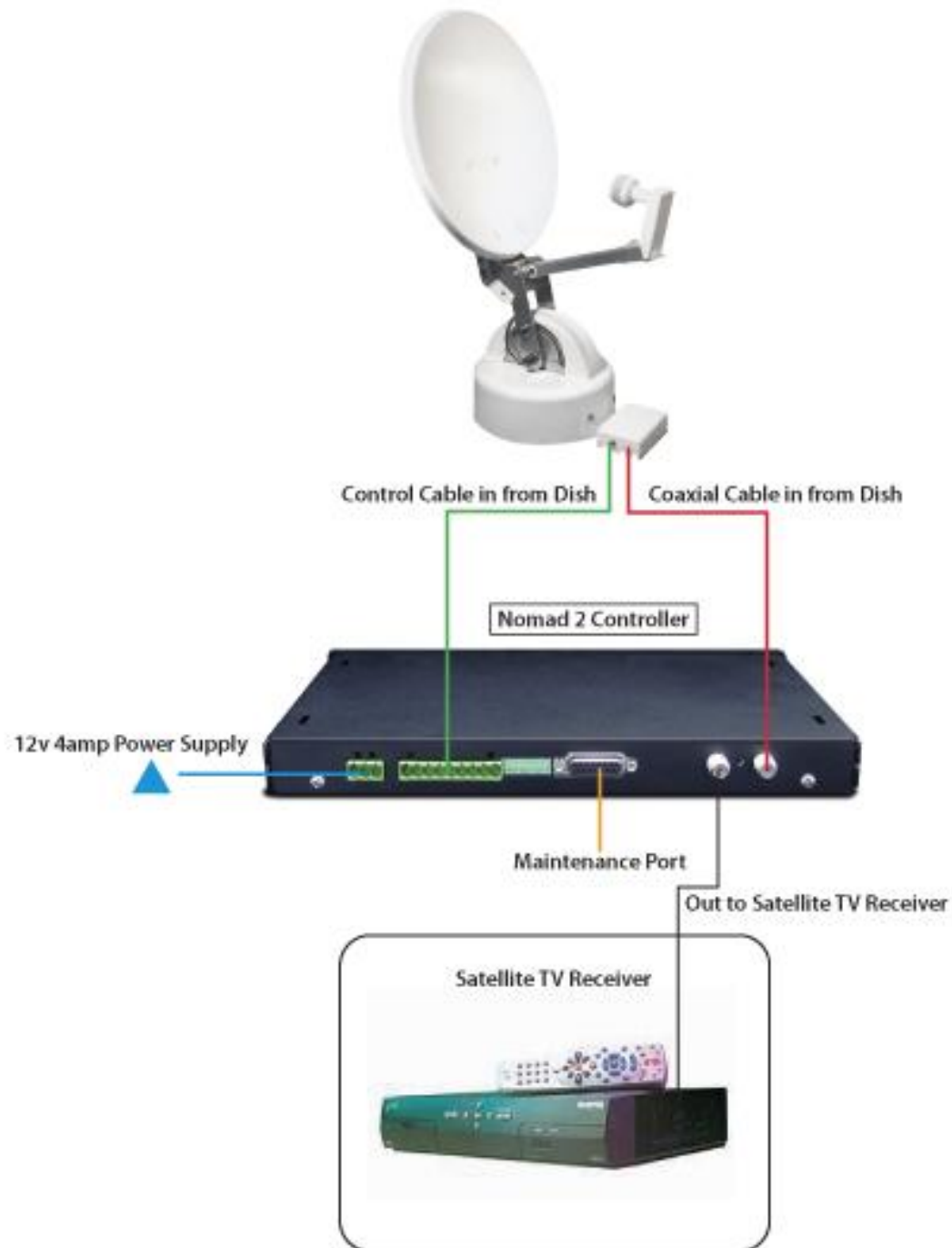
**Satellite in (on Receiver):** Coax connection used to connect the NOMAD 2 Universal Controller to the satellite/LNB connection on the satellite receiver.

**From Dish:** Coax connection from the dish to the NOMAD 2 Universal Controller.

# SAMPLE WIRING FOR EXECUTIVE MOUNT

## NOMAD 2 SETUP DIAGRAM

This diagram shows a setup of equipment for using a Nomad 2 with a receiver



# **RECEIVER INFORMATION**

## **NON-SKEWABLE Open Faced mounts.**

If your satellite receiver is a Dish 500 or Dish Pro and you remove it from your home to your RV, you will need to perform a “Check Switch” **while the non-skewable dish is in the STOWED POSITION**. Your screen upon completion of the “Check Switch” should have 8 X’s in the check boxes meaning that the “Check Switch” failed. This procedure must be accomplished ***before*** you “FIND” satellite. **Failure to do so will result in improper operation of the receiver.**

## **DISH NETWORK SEPARATOR**

**\*NOTE: If a Dish Network Separator is used IT MUST BE PLACED AFTER THE NOMAD 2 AND JUST BEFORE THE SATELLITE RECEIVER. Failure to do so will result in improper operation of the satellite receiver.**

## **DIRECTV B-BAND CONVERTERS**

**\*\*NOTE: If a DirecTV B-band Converter Module (BBC) is used, IT MUST BE PLACED BEFORE THE NOMAD 2. Failure to do so will result in not receiving one of the Ka Band satellites.**

# WIRING LEGEND

## Open Face TV Mounts

The Control Cable ( 9 conductors, colored coded, 22Awg stranded) that connects to the mount with a twist lock connector is configured in the following manner:

Color Code	Pin Designation	Mount Destination	Counts per Degree
Black	1	Motor, Azimuth Positive	
*Brown	2	Motor, Azimuth/Skew Negative	
*Red	3	Motor, Elevation/Skew Positive	
Orange	4	Motor, Elevation Negative	
Yellow	5	Sensor Count, Azimuth	3.408
Green	6	Sensor Count Ground, Azimuth/Elevation	
Blue	7	Sensor Count, Elevation	5.034
White	8	LED Power	
**Purple	9	Sensor Count, Skew	8.500

\* The Brown and Red are used to Skew the Dish. These wires control the Skew motors when directed by the Nomad 2 Controller. They will be used to control the skewable systems. They include the MD500/MD1000.2/MHDTV/MSC60 and HD mounts. Applying 12 volt power directly to these wires will skew the dish.

\*\*The Purple cable is for use on skewable dishes to return counts but it WILL NOT effect the operations of a non-skewable dish when it is connected (or not connected).

**The Mount is coil wrapped inside with the following cables and wire:**

**2 ea RG179 Teflon** coated coax cables (HD Mount comes standard with 4. All other mounts come standard with 2 but can be ordered with 4 if requested.)

**1 ea Control Cable**, 9 conductor cable, colored coded, 22Awg stranded. This cable is molded with a twist lock connector on one end and manually terminated at the Nomad 2 end with a 9 pin connector.

**2, 3 or 4 ea RG179 coax cables** terminated at the LNB will provide additional cabling for multiple receivers.

**1 ea Green and White** 22Awg stranded wires carry the positive (white voltage) and negative (green ground) to the LED which is used to illuminate the dish face.

# PROGRAMMING

## NOMAD 2



## TO PROGRAM YOUR NOMAD 2 CONTROLLER

1. Turn the Nomad power “OFF”
2. Hold both the ‘Find’ *and* ‘Stow’ buttons down and press the Power Button “ON”
3. Continue to hold ‘Find’ and ‘Stow’ button down for an additional 5 seconds after releasing the Power button
4. Release the ‘Find’ and ‘Stow’ buttons at this point and the front display lights will show the current satellite mode of the unit (Note: No Lights indicate “Dish Network Non-Skewable mode.”)
5. Use the ‘Find’ and ‘Stow’ buttons to cycle through the light (LED) patterns until the desired configuration is shown.
6. Turn the ‘Power’ off to store the programmed settings.
7. When you turn “Power” back on, it is recommended do a Test Dish or “Find” satellite.

## NOMAD 2 PROGRAMMING OPTIONS

By Service

For software version V25 or higher

MODEL NUMBER	Skewable	Orbital Position	Multi Sat	Nomad 2 LED(s)
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### DIRECTV

Executive 18"/24"	NO	101° Only	NO	FIND
Executive 18"/24"	NO	101° or 119°	NO	PEAK / FIND
MHDTV	YES	101° / 110° / 119°	YES	FIND / STOW
HD-SL5	YES	99/101/103/110/119	YES	FIND / STOW

### DISH NETWORK

Executive 18"/24"	NO	119° or 110°	NO	NO LIGHTS
Executive 18"/24"	NO	119° or 110° or 61.5°	NO	DVB / PEAK/ FIND
Executive 18"/24"	NO	119° or 110° or 129°	NO	LOCK / FIND
Executive 18"/24"	NO	119° or 110° or 148°	NO	LOCK
MD500	YES	119° / 110°	YES	STOW
MD1000.2	YES	119° / 110° / 129°	YES	LOCK / STOW
HD-DP3	YES	119° / 110° / 129°	YES	LOCK / STOW

### BELL EXPRESSVU

Executive 18"/24"	NO	82° or 91°	NO	PEAK
MD500	YES	82° / 91°	YES	PEAK / STOW

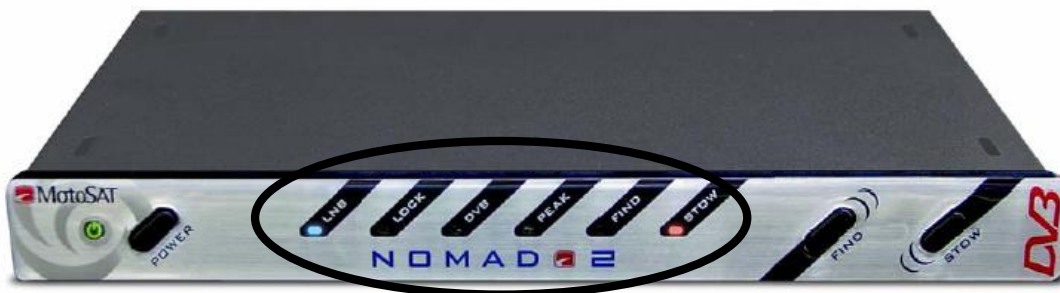
### STAR CHOICE

MSC60	YES	107.3° / 111.1°	YES	PEAK / FIND / STOW
HD-SC2	YES	107.3° / 111.1°	YES	PEAK / FIND / STOW

### SHOW MODE (for display purposes)

SKEWABLE	YES	Continuous Motion	N/A	DVB / FIND / STOW
NON-SKEWABLE	NO	Continuous Motion	N/A	DVB / PEAK

**Note:** The FREEDOM (fixed dome) will function with the Nomad 2. It is not recommended. It may be programmed as a NON-SKEWABLE system for any of the above NON-SKEWABLE configurations. At the push of the FIND Button it will toggle sequentially through the satellites for which it is programmed.



## Nomad 2 Program LED's.



# TROUBLESHOOTING

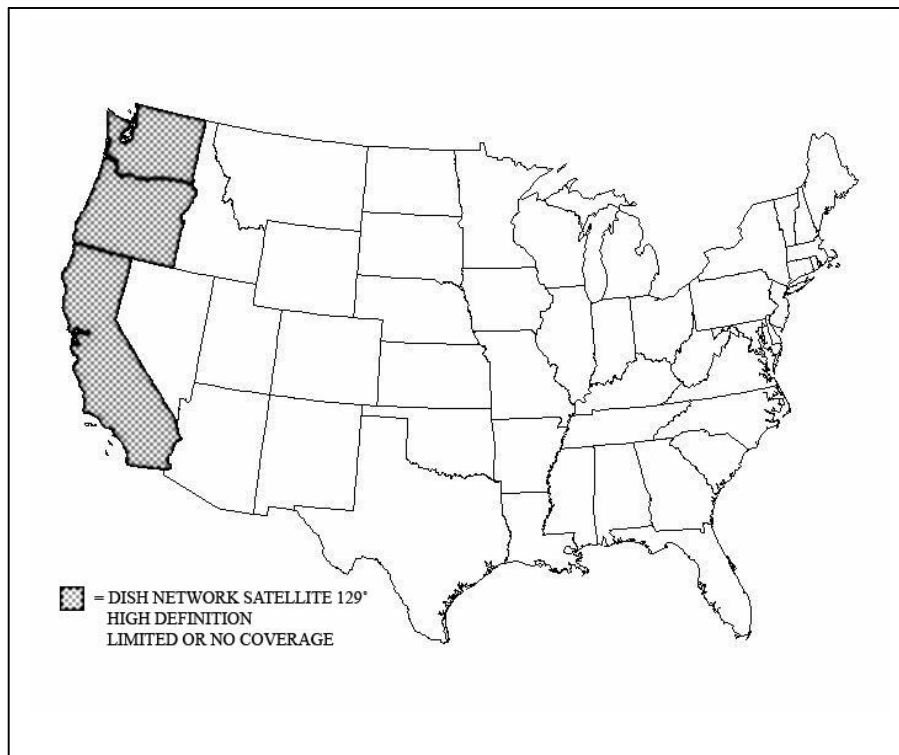
**Before accepting any of the flashing LED codes, perform a TEST DISH to see if the error continues. If it does then you can follow the information listed below. If the problem persists and you can find no solution then please call our Technical Support Line 800-247-7496 for further assistance.**

ERROR CODES ARE FLASHING LED LIGHTS AT 1 SECOND INTERVALS		
LED FLASHING	ERROR MEANING	POSSIBLE CAUSE AND SOLUTION
<b>Stow</b>	This is not an error but indicates the motors are moving	If Stow is flashing and the mount is not moving look for a stripped gear
<b>Find</b>	Invalid Mode selected, Skewable vs. Non-Skewable.	Reprogram the Nomad Controller
<b>Find and Stow</b>	Invalid Mode.	Reprogram the Nomad Controller
<b>Peak</b>	Motor Time Out. No counts in Elevation.	Dish blocked from moving or bad Elevation Sensor
<b>Peak and Stow</b>	Motor Time Out. No counts in Azimuth.	Dish blocked from moving or bad Azimuth Sensor
<b>Peak and Find</b>	Motor Time Out. No counts in Skew.	Dish blocked from moving or bad Skew Sensor
<b>Peak, Find and Stow</b>	Limit Error in Elevation movement.	Dish blocked from moving or bad Elevation Sensor
<b>DVB</b>	Limit Error in Azimuth movement.	Dish blocked from moving or bad Azimuth Sensor
<b>DVB and Stow</b>	Limit Error in Skew movement.	Dish blocked from moving or bad Skew Sensor
<b>DVB and Peak</b>	Only Main satellite found.	Dish line of sight blocked, try different location
<b>DVB, Peak and Stow</b>	Main satellite not found but Secondary satellite was.	Dish line of sight blocked, try different location
<b>DVB, Peak, Find and Stow</b>	Signal lost, NO LNB Power	Check Satellite Receiver power
<b>Lock</b>	No satellite found.	Dish line of sight blocked, try different location, possible connection or LNB failure
<b>Lock and Stow</b>	Over Temperature on Satellite Receiver.	Operational limit of your electronics has been exceeded, provide proper ventilation
<b>Lock and Find</b>	Dish did not raise high enough.	Dish blocked from moving or bad Elevation Sensor

# MD1000.2 LIMITATIONS

**NOTE: The MD1000.2 has 2 limitations that can affect its operation.**

1. The MD1000.2 has the same limitations that exist with the Dish Network D1000.2 home coverage. Coverage may be limited due to the footprint of the satellite signal on the 129° High Definition Satellite. You will be able to receive programming on the other two (2) satellites (110° and 119°) when in the shaded areas but may have decreased signal strength on the 129° satellite which may affect your programming. This limited coverage may extend past the shaded areas but is known to be a problem within the shaded areas. Please call Dish Network (888-248-7116) for any additional information.



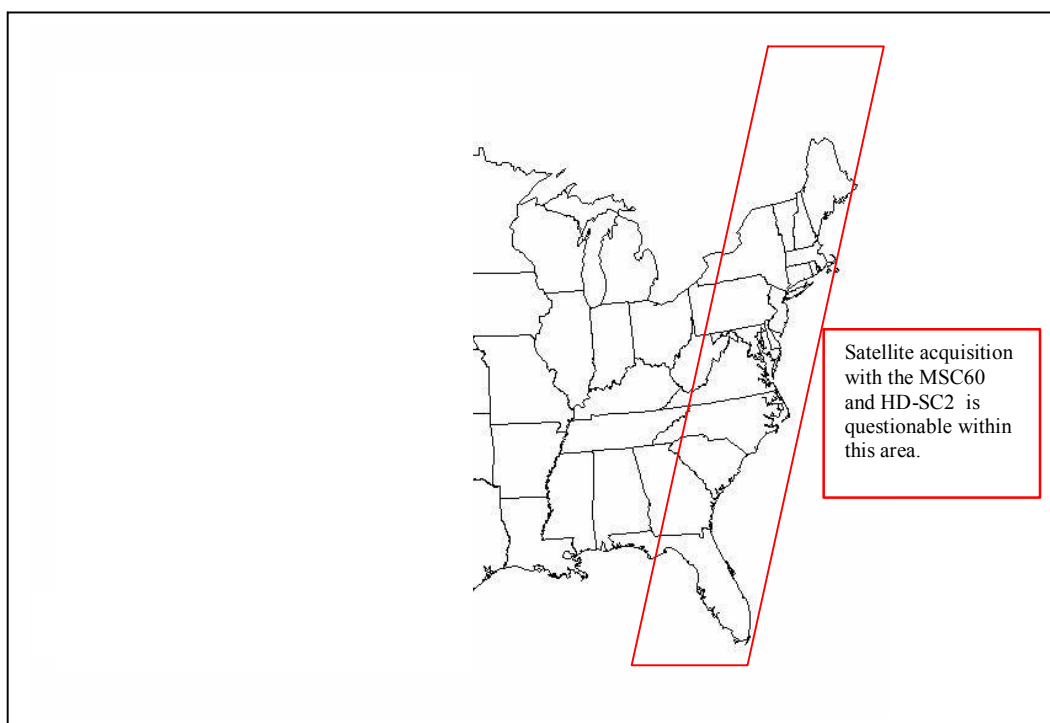
2. The size of the dish makes wind loading a factor. While under most circumstances you will not be affected but when winds reach an excess of 30-40 MPH (depending upon the direction of the wind) you could experience the mount being moved off the satellite. If this should happen, simply press the “FIND” button and the system will re-peak for signal strength or re-find as required.

# STAR CHOICE

## MSC60 and HD-SC2 LIMITATIONS

**NOTE: The MSC60 and HD-SC2 has 2 limitations that can affect its operation.**

1. They have the same limitations that exist with the Star Choice home coverage. Coverage may be limited due to the footprint of the satellite signal as well as antenna size, on the Star Choice Satellites. You will be able to lock on satellite outside of the specified area but may no be able to lock on satellite in the zone marked. This limited coverage may extend past the marked area but is known to be a problem within this area. As of the printing of this manual there is not a solution for the MSC60 and HD-SC2 systems working properly within this area.

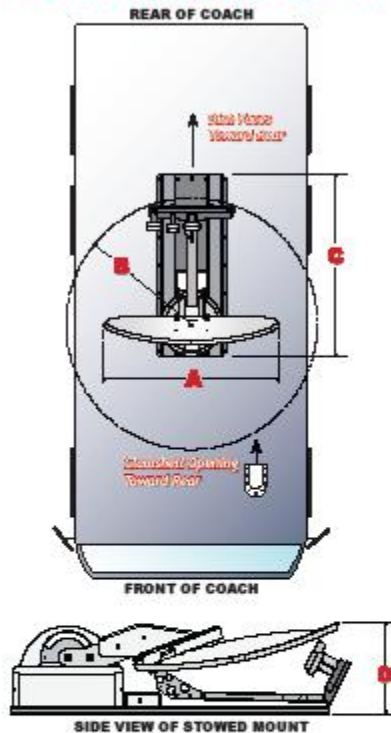


2. The size of the dish makes “wind loading” a factor. While under most circumstances you will not be affected but when winds reach an excess of 30-40 MPH (depending upon the direction of the wind) you could experience the mount being moved off the satellite. If this should happen, simply press the “FIND” button and the system will re-peak for signal strength or re-find as required.

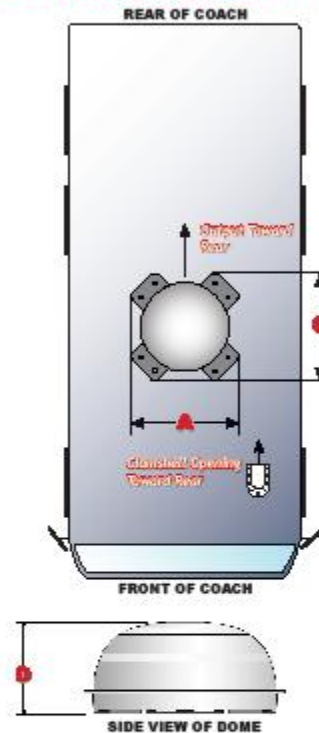
## TV MOUNT CLEARANCES, ORIENTATION AND FOOTPRINTS

Your installation planning must account for proper orientation of the Mount and Clamshell, and for all required clearances and space requirements. Refer to the chart below (and your tape measure) **BEFORE BEGINNING INSTALLATION!**

### FOR OPEN-FACED MOUNTS:



### FOR DOME-STYLE MOUNTS:



MODEL	A	B	C	D
<b>OPEN-FACED MOUNTS</b>				
EXECUTIVE 18"	18"	16"	35"	16"
EXECUTIVE 24"	24"	28"	41"	18"
MSDTV	21"	18"	35"	10.5"
MS500	21"	26"	35"	10.5"
MS100L2	28"	22"	38"	10.5"
MBC50	32"	23"	38"	10.5"
HD SL-5	34"	24"	37"	10.5"
HD SP-3	34"	26"	37"	10.5"
HD SO-2	34"	36"	37"	10.5"
<b>DOME-STYLE MOUNTS</b>				
FM 1431	30"	N/A	N/A	14"
FREEDOM 12"	31"	N/A	N/A	12"
FREEDOM 16"	31"	N/A	N/A	16"

#### **HARDWARE:**

- Stainless Steel or Aluminum ONLY!

#### **SEALANT:**

- Use ONLY approved water sealant.

**REMEMBER:**  
Water Runs Downhill and Goes Into Every Hole!

# EMERGENCY STOW

## **Stowing the dish when all else fails.**

### **If you are able to go onto the roof -**

1. Unplug the “Green” 9 pin connector from the back of the NOMAD 2. This will release “dynamic braking” that holds the mount in position. The mount may now be rotated manually.
2. Go to the roof where you can carefully apply a slight continuous amount of force to move the dish into an acceptable position for traveling. In Azimuth, rotate the mount in a counter clock wise direction to move to the proper stowed position.
3. Plug the “Green” 9 pin connector back into the Nomad 2.
4. Call Tech Support when you can perform additional trouble shooting.

### **If you are unable to go onto the roof –**

The dish can be manipulated by applying 12 volt DC power to specific wires in the control cable located in the back of the NOMAD 2 (see Control Cable Connector on Rear Connection page.) The 12 Volts going to your NOMAD 2 controller’s 3 pin “green” connector (see Power Connections on Rear Connection page) can be used as the 12 volt DC power source.

1. **ELEVATION** - **Orange and Red** wires (reversing polarity will change direction)
2. **AZIMUTH** - **Black and Brown** (reversing polarity will change direction.)
3. **SKEW** - **Brown and Red** wires (reversing polarity will change direction.)

**If a chain or motor/gearbox assembly is broken, the dish will have to be stowed by hand.**

# SOFTWARE UPGRADE OPTIONS

Software upgrades can be conducted in two (2) different ways.

1. The latest version of software for your system is available on line on the MotoSAT WEB site <http://www.motosat.com/downloads/tv/index.asp>. To load it into your Nomad 2 from your computer:
  - a. You must have a special cable which is available from MotoSAT and can be ordered using part number 406-D15M-SER-D9F (Cable Assembly, Nomad 2, Serial, DSub 15 to DSub 9) for the cost of \$23.40
  - b. You must have a computer that has a serial port available or a USB to Serial Adaptor which can be purchased from Radio Shack.
  - c. Simply follow the instructions listed in this manual for “Nomad 1 and Nomad 2 Software Update.”
  
2. The latest version of software for your system is available in module form. To take advantage of this effortless upgrade simply:
  - a. Order part number 252-NOMAD2-PM (Program Module, Nomad 2 Current Version.) All you pay is the shipping (both ways.) We do this by charging you freight one way and we will include a pre-paid UPS Return Tag for the return of the module. The total transaction will cost around \$12.00 to \$14.00. It must be paid with Credit Card which will insure that the module is returned. The module MUST be returned to MotoSAT within 30 days or your Credit Card will be billed an additional charge of \$65.95 (the cost of a replacement module.)
  - b. Updating the software using the Program Module can be done in less than 5 minutes. It comes with installation instructions. All you do is plug it into the Maintenance Port on the back of the Nomad 2 (see Rear Connection page) and follow the instructions listed on the device when it arrives.

Whether you chose to do the upgrade the software though your computer or use our easy to use Program Module, you will be able to take advantage of software improvements as they happen. Not all upgrades will affect you. Read the “Nomad 2 Revision History” next to the latest version of software to see if you would benefit by loading it. If the changes do not reflect a solution to something that may be affecting you then do not load it. If you think that you will benefit by loading it then you have the two above options available.

# Nomad 1 & Nomad 2 Software Update

## Required Equipment

1. Computer with 9 Pin Serial Port out (or adaptor).
2. Special 9-15 Pin Serial Cable (MotoSAT Part # CBL-SERIAL-DATA-10). A special configured cable that is available only through MotoSAT. Cost \$19.00 PS&H.

## Overview

### Nomad & Nomad 2 Software Update

This procedure outlines how to update the Nomad series controllers via your computer. A few key things to note are:

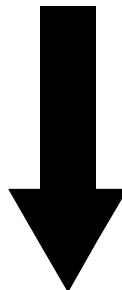
**\*An automatic software upgrade module (MotoSAT Part # Module-Nomad (1) or (2)) is available through MotoSAT if a computer isn't available. This module attaches directly to the back of the Nomad series controller enabling it to load the new software. It can be ordered at No Charge. Customer will pay shipping (both ways). Module must be returned otherwise customer will be billed \$65.00 against their Credit Card. Contact MotoSAT's Tech Support for more information.\***

For Any further questions, please contact MotoSAT's Tech Support team at:  
**support@motosat.com**

## Updating the Nomad 1 & Nomad 2 Controller

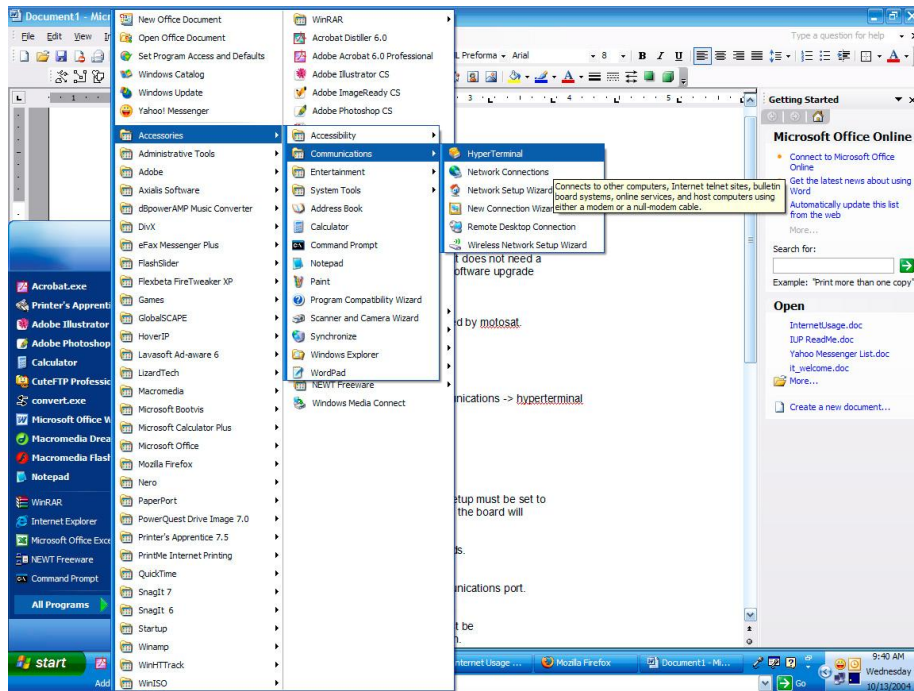
### Step 1-Opening HyperTerminal

- **TURN OFF THE NOMAD CONTROLLER**



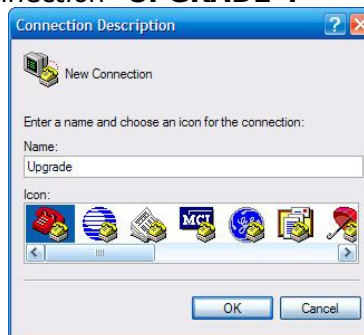
- You now need to start a program on your computer to communicate with the Nomad. This Program is called **HYPERTERMINAL**. It can be found by clicking the **START BUTTON**, then click **ALL PROGRAMS**, then click **ACCESSORIES**, then click **COMMUNICATIONS**, then click **HYPERTERMINAL**.





## Step 2- Configuring HyperTerminal

- Name your HyperTerminal Connection **"UPGRADE"**.



- You now need to choose your port you wish to use to connect to your Nomad. Generally **COM 1** is the best choice.



- You must now enter properties for connecting using COM 1.

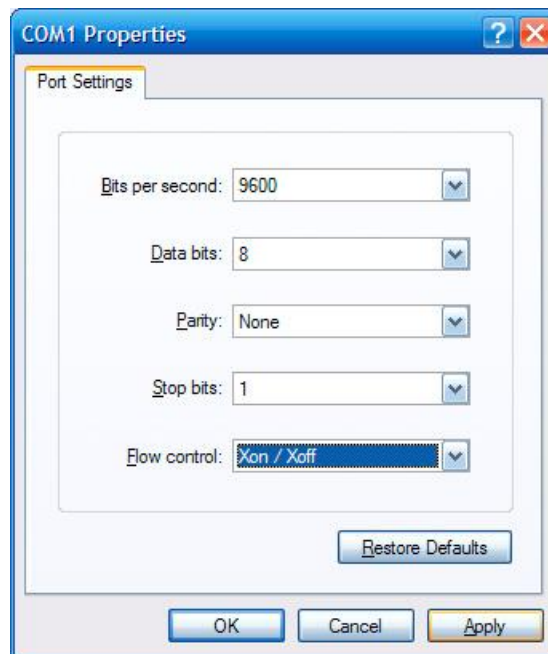
For the **NOMAD 1**, use the following:

**NOMAD 1**  
 Bits per second: **9600**  
 Data bits: **8**  
 Parity: **None**

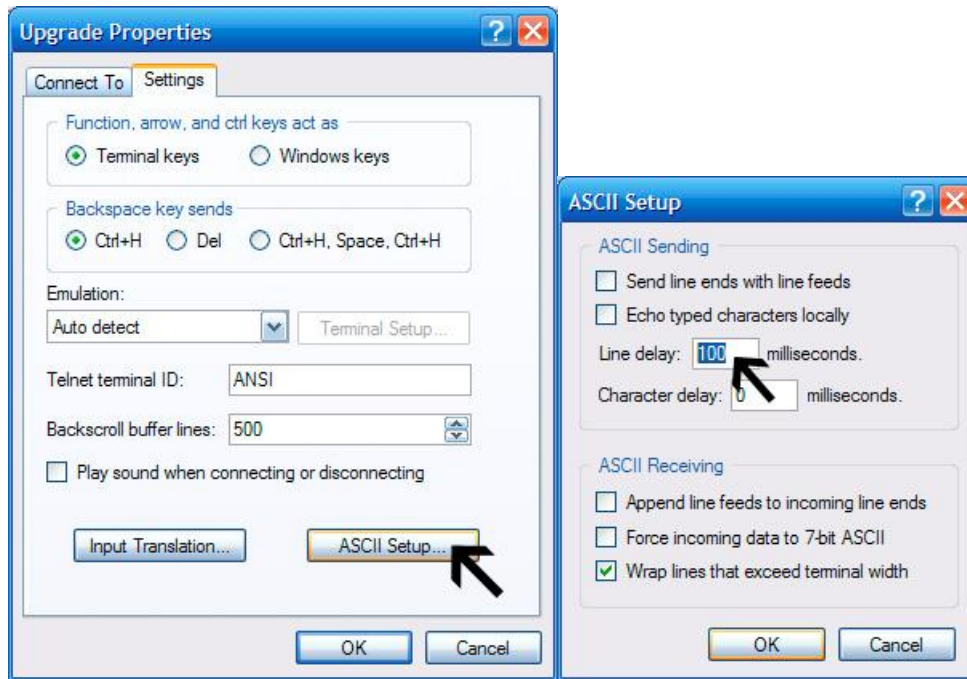
Stop bits: **1**  
Flow control: **Xon / Xoff**

For the **NOMAD 2**, use the following:

**NOMAD 2**  
Bits per second: **115200**  
Data bits: **8**  
Parity: **None**  
Stop bits: **1**  
Flow control: **Xon / Xoff**



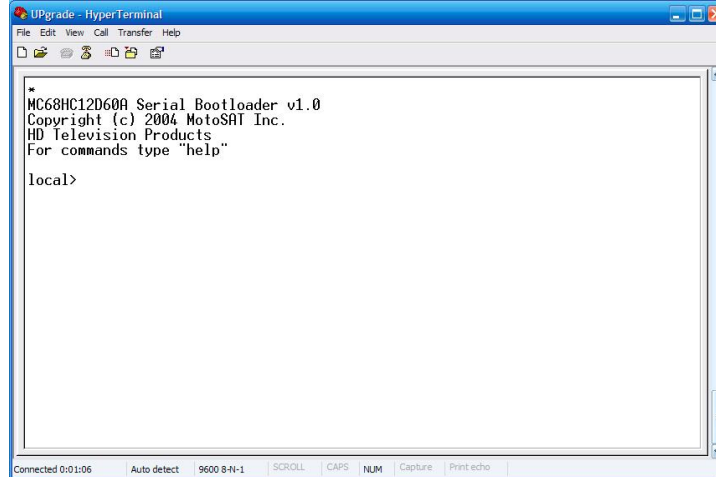
- After clicking "OK", In the HyperTerminal window, click **FILE**, then **PROPERTIES**, then click the **SETTINGS** tab. Click the **ASCII SETUP** button. Change the **LINE DELAY** setting from **0**, to **100**.



**YOUR HYPERTERMINAL SETTINGS ARE NOW CONFIGURED**

Step 3- Loading software to the Nomad

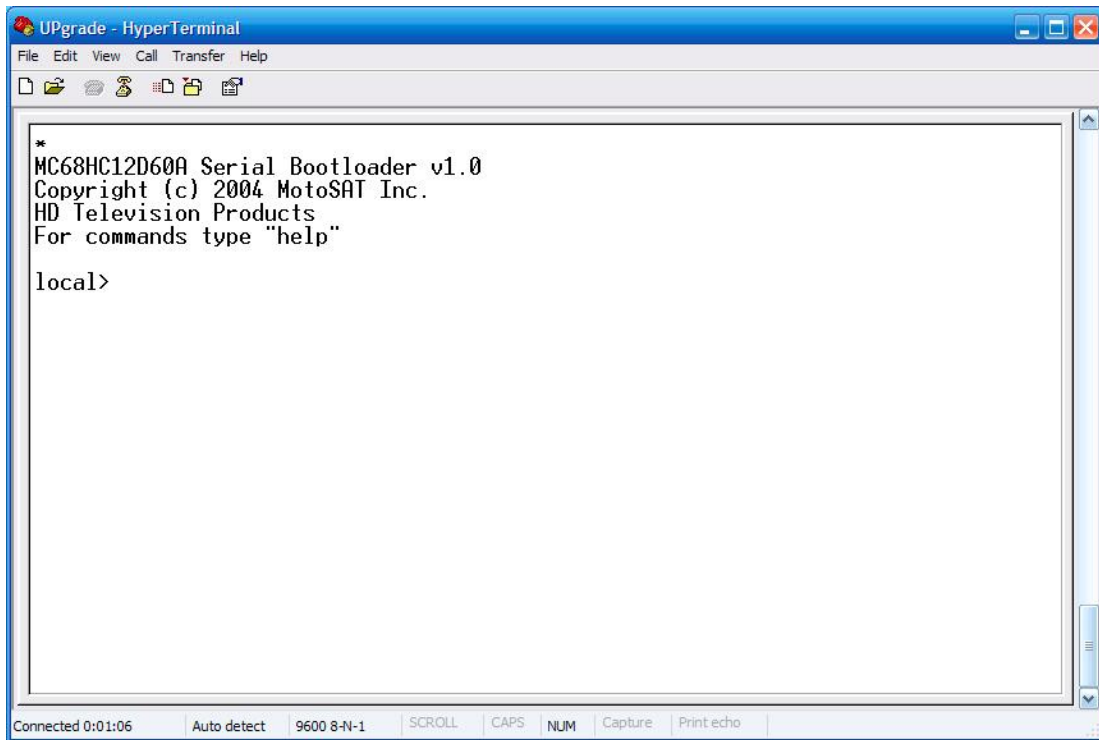
- **TURN ON YOUR CONTROLLER AND PRESS THE \* KEY [SHIFT+8] ON THE KEYBOARD, WITHIN 3 SECONDS AFTER POWERING THE CONTROLLER ON.**



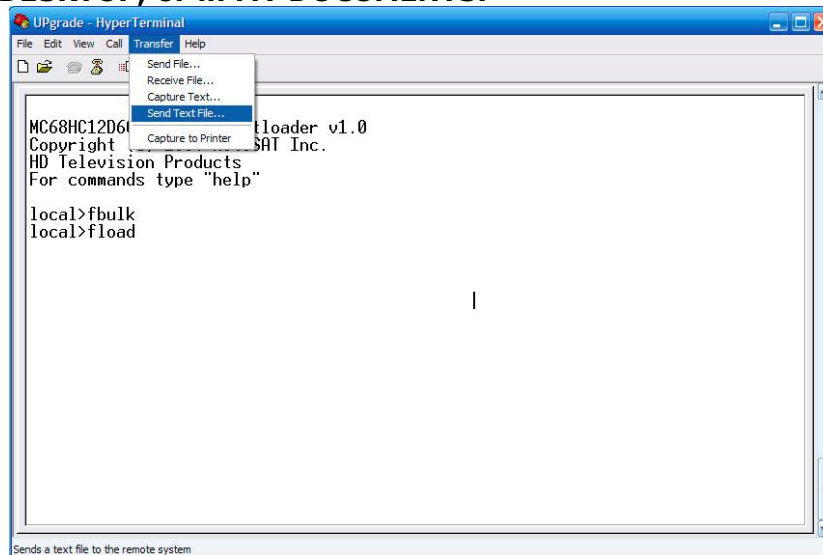
**IF NOTHING APPEARS YOU HAVE CHOSEN THE WRONG COM PORT-REFER TO THE HYPERTERMINAL SETUP AND RECONFIGURE**

**IF YOU SEE 'GAIN ADJUSTED' YOU HAVE TAKEN TOO LONG TO PRESS THE \* KEY. RETRY THE CONTROLLER POWER ON CYCLE AGAIN**

- If done correctly, the following screen will appear:



- At the **local>** prompt, type **fbulk** and press the **ENTER** key.
- **YOU WILL RECEIVE THE local> PROMPT BACK**
- At the **local>** prompt, type **fload** and press the **ENTER** key.
- **YOU WILL NOT RECEIVE THE local> PROMPT THIS TIME**
- You can now send software to the Nomad for updating. On the HyperTerminal window click **TRANSFER**, then click **SEND TEXT FILE**.
- Browse for the Nomad file you wish to send to the Nomad controller. Usually it can be found on your **DESKTOP, or in MY DOCUMENTS**.



- The file will then load indicated by stars across the screen as shown below:



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