

ACTIVATEDDECOR

NOW WITH

SMART | **BOX**
by: ACTIVATEDDECOR

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SMART BOX INSTRUCTION MANUAL **(For use with all Models)**

Thank-you for purchasing our equipment, your current and future business is very important to us and it is for this reason we strive for second to none customer service.

Please take a moment to review this instruction booklet prior to operating the lift to avoid any personal or property damage that may occur for incorrect operation.



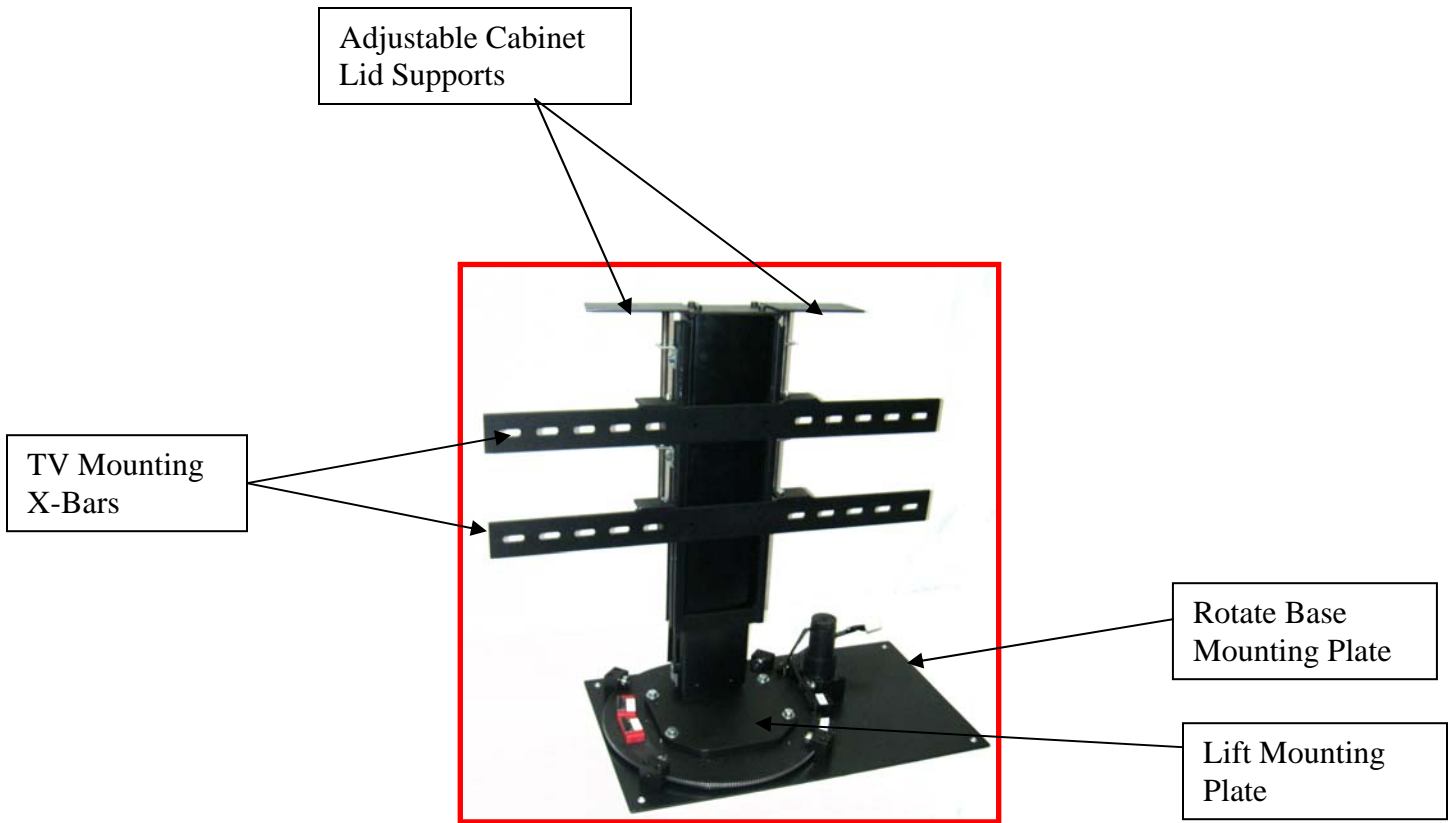
Warning, do not operate this device before reading instructions thoroughly.

If you think the device has arrived damaged, please call factory immediately.

NOTES:

- 1) It is the responsibility of the customer that this unit be installed securely and meets your local building codes.**
- 2) Test all equipment for proper functionality prior to final installation**
- 3) Our equipment has a 10% duty cycle, we recommend not cycling the lift more than 10 times an hour to be safe**
- 4) Always remain clear when applying or removing power, both people and equipment run the risk of being damaged if the lift deploys.**

If you require technical support call our office toll free at 1-877-543-8711



Example Lift

TV MOUNTING X-BARS ADJUSTMENT



One of (4) mounting bar adjustment lock nuts.

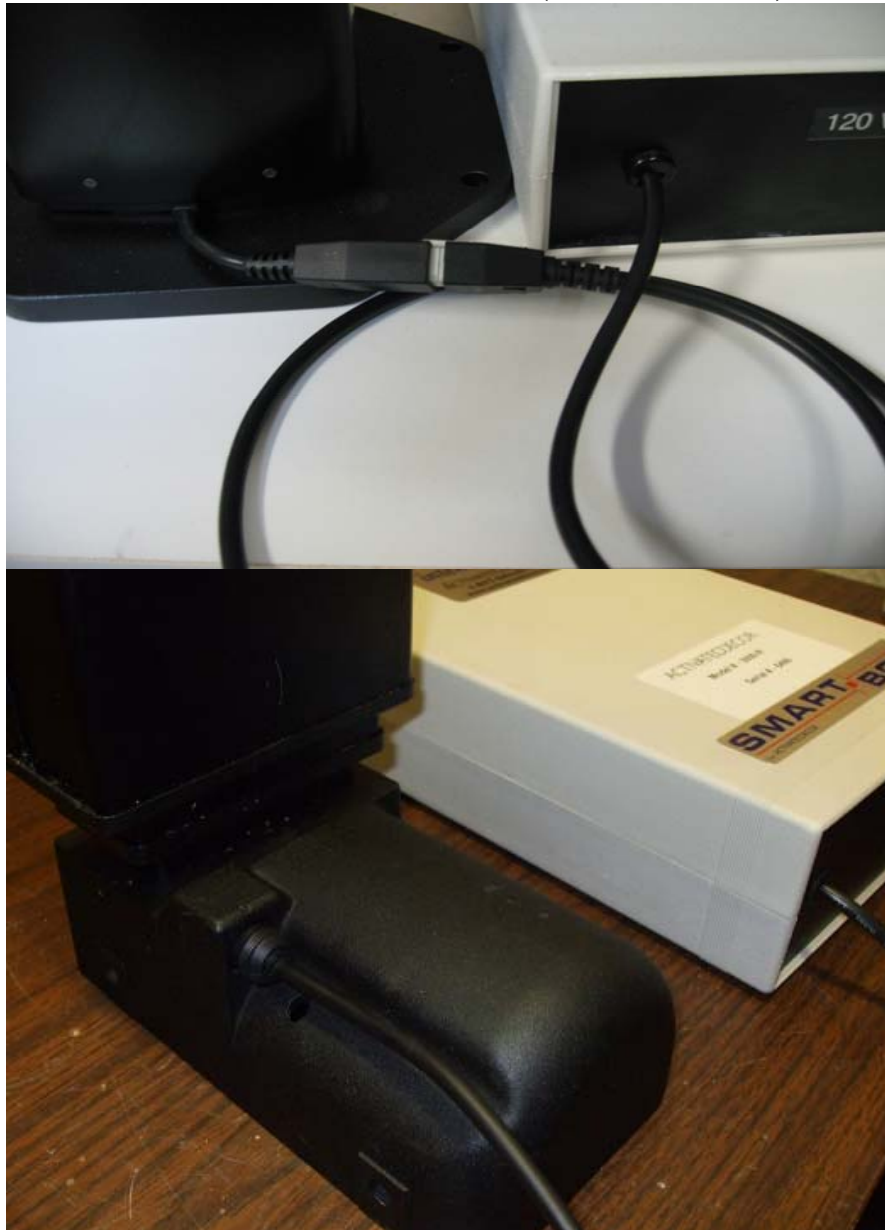
Loosen bolt on both sides of bar and bar will slide up and down to adjust in height.

INSTALLATION:

Before starting the physical mounting of the lift mechanism into its final enclosure, it is recommended that the unit be set up on a solid, level surface, temporary electrical connections be made, and the functionality of the lift mechanism be verified before final installation.

Once proper interconnect and functionality have been established, the lift unit may be mounted into its cabinet/enclosure. Individual mounting details will depend upon your specific mounting location. When locating the base plate mounting position, you must ensure that the television will clear all objects when it is raised.

Electrical Post Connection Shown Attached to SMART BOX You will have 1 or the other. (NOT BOTH)



HAND HELD PROGRAMMER USED FOR SET-UP AND / OR NORMAL OPERATION



NOTE: The unit has been set-up at the factory for you with default settings of fully extended and fully retracted travel distance for the post.

KEY-STROKE SEQUENCES

NOTE: If you have a vertical only model then ignore LEFT and RIGHT instructions as they only apply to the rotate models.

VERY IMPORTANT: If you have a rotate model and are setting up initial settings please note that it is your responsibility to ensure the lift is centered (Not rotated) and will clear all obstacles.

MODEL 2500/5000 OWNERS: When setting up or using the lift, the secondary actuators move first on the way up and then once the actuators hit their limit then the main post will move. On the way down the main post will move first and once it hits its limit the secondary actuators will then move.

MASTER SET-POINT CLEAR

A Master Reset is only performed if certain errors have occurred; please refer to the Error Code Matrix on the last page to view faults

If the Master Reset is necessary the follow key stroke will accomplish it:

F S F ESC Clears all set points, clears memory

INDIVIDUAL SET-POINT CLEARING

This is only performed if the factory settings do not work for your application or if you need to change them at a later date.

F S UP ARROW ESC clears UP TRAVEL set point

F S LEFT ARROW ESC CLEARS LEFT TRAVEL SET POINT

F S DOWN ARROW ESC CLEARS LOWER TRAVEL SET POINT

F S RIGHT ARROW ESC RIGHT TRAVEL CLEARS SET POINT

Programming the SMART BOX from Scratch after a MASTER RESET

STEP #1 SET HOME POSITION

Key stroke the following to clear the Home Position: **F... SET ... HOME ... ESC.**

**** NOTE FOR MODEL 2500's AND 5000's ONLY **** Even though you have done a master reset you still need to reset the home position. What this does is disables the secondary actuators so you can properly set your HOME position. Once you have set the HOME position the secondary actuators will engage. If you do not have one of these models IGNORE this step.

NEVER have the main post completely retracted. Bring lift approximately a 1/4" to 1/2" off of the bottom base.

To set HOME position:

Using the UP or Down arrow key allows you to move the main post to its desired lowered position. If you have a rotating model ensure the lift is centered. If it is not centered it will continue to give you error beeps.

Key stroke the following: **F ...SET... HOME... SET**, You have now set the **HOME POSITION**

STEP #2 SET THE UPPER TRAVEL POSITION (MAX STROKE)

Using the UP arrow key allows you to move the main post to its desired max stroke position.

IMPORTANT: #1 SLOW THE POST DOWN AS YOU APPROACH MAX STROKE
#2 ONCE AT THE MAX TOP, JOG LIFT DOWN 1/4" to 1/2" AND SET UPEPR TRAVEL LIMIT. If you do not do this you might get an error message.

Key stroke the following: **F ...SET... UP ARROW KEY... SET**, You have now set the **MAX STROKE POSITION**

STEP #3 SET THE OUT OF CABINET POSITION

The **OUT OF CABINET POSITION** is the minimum height extended that you are going to require in order to safely rotate the lift. In other words you do not want the lift to be able to rotate if the TV is still in the cabinet as this will cause damage.

If you do not have a rotate model where there is no rotation this position can be set anywhere as it doesn't apply in the vertical only cases.(Note: You are only able to set preset points above this limit and not below it)

Jog using the DOWN arrow key to move the main post to its desired **OUT OF CABINET POSITION**.

Key stroke the following: **F ...SET...DOWN ARROW KEY... SET** , You have now set the **OUT OF CABINET POSITION**

STEP #4 SET THE UPPER NORMAL (Operating) TOP POSITION

Jog, using the UP arrow key the main post to its desired normal operating UP stroke position.

Key stroke the following: **F ...SET... 1... SET**, You have now set the **NORMAL TOP POSITION**

Non Rotate Models (Straight up/down)

You have up to 4 pre-set position settings, with the straight UP/DN lifts you will normally only need 1, typically it is set to #1 as shown in step 4 above.

For Rotating Models

With the rotate models you can raise and rotate to 4 different pre-sets. All you have to do is move the lift to the desired location and use the steps outlined in the **INDIVIDUAL PRE-SET PROGRAMMING** below.

INDIVIDUAL PRE-SET POSITION PROGRAMMING

After jogging lift to desired pre-programmed position follow the steps shown below to program up to 4 pre-set positions.

F S 1 S SETTING PREPROGRAMMED POSITION #1
F S 2 S SETTING PREPROGRAMMED POSITION #2
F S 3 S SETTING PREPROGRAMMED POSITION #3
F S 4 S SETTING PREPROGRAMMED POSITION #4

When using the key pad in normal operating mode simply PRESS the F key and the corresponding pre programmed number to send the lift to that position.

USING YOUR LIFT AFTER SUCCEFUL SETUP (Steps 1-4 Above)

To activate a preset you have to press **F** before the preset you want to go to.

Example: If you want to go to your Preset #1 position you would press **F** then Press **1**

If you want to go to the Home position you would press **F** then **Home**

SETTING UP THE ABB (Auto-Bounce-Back) Feature



TOGGLE SWITCH SHOWN WITH RUN AND PRGM MODES

***NOTE: Only available if you requested RS232 or Current sensing options. RF remote will **NOT** work if switch is in RUN mode.

ABB TRIM POT SHOWN WITH - and +

The Auto-Bounce-Back or the **ABB** as we will refer to it in the rest of this manual is a feature that is meant to minimize damage that may be caused if the lift collides with an object on its way down.

NOTE: This is VERY IMPORTANT, THE ABB WILL NOT PREVENT A COLLISION, IF SET UP PROPERLY, IT WILL MINIMIZE DAMAGE THAT MAY BE CAUSED BY THE COLLISION.

Think of the ABB as the air bag in your car, the air bag cannot stop or prevent the accident but it will certainly minimize the damage.

Like the airbag in a car the ABB is **NOT** a substitute for common sense or common care.

ABB: How it works;

Our SMART BOX CONTROLER has the ability to monitor the amount of current required to lower your TV, if it detects an increase outside the “normal” or set-point selected in the current draw it will ALARM.

ABB: SETTING IT UP (SET FROM FACTORY AS MAXED OUT)

By adjusting the small TRIM POT (Potentiometer) inside the Blue housing you can Increase (+) or decrease (-) the force required to trip the ABB Alarm. (Use a small flat head jeweler’s screw driver to make adjustments)

Although your instinct might be to turn the (-) all the way to the right so little or no force is required to trip the alarm this may lead to what we call “nuisance” Alarms as the setting may indeed be too low.

Ideally you will want to turn the ABB trim pot fully clockwise then back it off 4 complete turns. Test to see if the force required to trip the ABB is acceptable, if you find it still takes too much force then continue tuning the trim pot counter clockwise until you find the desirable force for your application.

ABB: ALRAMS and RESETTING

If the force encountered by the lift while descending exceeds the set point set in the above stage, the Smart Box will ALARM.

By ALARM we mean the following will happen;

- 1) You will hear 1 short beep followed by a longer beep
- 2) At the same time the SMART BOX will STOP the lift and extend it in the UP direction for 1”.

In order to reset it you have 2 options:

- 1) Press ESC on key pad then hit F 1 to send lift up and allow you to clear the obstruction.
- 2) If you have a PRG/RUN Switch. Place the SMART BOX in PRG Mode and press ESC, then press F 1 to send lift up and allow you to clear the obstruction.
- 3) If you have current sensing Turn TV OFF and then ON again, this will clear the fault (Units with Current Switch Option)

CURRENT SWITCH OPTION



**SMART BOX SHOWN WITH
“CURRENT SWITCH” OPTION**

120 VAC receptacle
where TV is plugged into

120 VAC plugged into
wall outlet

Control cable that plugs into
TV LIFT Post

Current Switch:

What is it?

A current switch is an option where you plug your TV into the rear 120 VAC 3A receptacle in the back of the Smart Box

How Does it work?

When the TV is turned ON it will deploy the TV lift, when the TV is turned OFF it will retract the TV Lift.

Note: For this Option to work you must place the SMART BOX in **“RUN MODE”**. Also because your TV remote does not work through obstacles you will need an IR repeater that will allow the signal from your TV Remote to get to the TV. Contact Audio Video installer near you for assistance if need be.

IR MODE/TEACHING

If your SMARTBOX has a RUN/PROG SWICTH IT MUST BE IN THE PROG MODE FOR IR TO WORK. When plugging in IR cable, turn off the SMARTBOX, plug in IR cable into remote, power SMARTBOX back on.

When SMART BOX hand held remote is tethered to main control box the hand held behaves like an IR receiver/transmitter.

When SMART BOX remotes tether is removed and batteries are inserted then it behaves as an RF remote control.

Your lift has been factory set up with full extension and fully retracted to HOME.
To teach your IR

- 1) Place your IR remote in LEARN MODE
- 2) Place your IR remote it approx 1/4” to 1/2” from the red lens on the hand held remote near the center
- 3) Once you have selected your preset button command on your IR remote simply press and hold 1,2,3,4 depending on which preset you want to teach on the Smart Box Remote until your control has learned the command.
- 4) Select your HOME or Down command on your remote you are teaching and then press and hold on the SMART BOX Remote the “HOME” button located in the centre of the remote until your IR has learned the command.
- 5) You are now programmed and ready to go.
- 6) Note that your IR remote must now point to the FRONT or the RED lens of the SMART BOX remote for activation

VERY IMPORTANT

- a. **IF YOU ARE HAVING TROUBLE LEARNING CODES, TAKE REMOTE APART AND PUT YOUR LEARNING DEVICE RIGHT ON THE PURPLE EYE. IF YOU STILL CANNOT LEARN CODES THEIR MIGHT BE A COMPATIBILITY ISSUE. WE USE A RCA LEARNING REMOTE WHEN TESTING.**
- b. **ALL SET-UP IS PERFORMED IN THE RF MODE. If YOU HAVE A RUN/PROG SWITCH THE SWITCH MUST BE IN THE PROG MODE FOR IR TO WORK (Again only if you have a Run/Prog switch)**

LOW VOLTAGE OPERATION

If you requested LV (Low Voltage) when you ordered you will receive the SMARTBOX with a cable with either 3 or 5 wires. This is how you will trigger the SMARTBOX with these leads. 3 wires if for our straight up/down models and 5 wires for our rotate models.

NOTE: You must first set up and teach the presets using the RF remote before the LV will work.

Wire Color and Operation:

Red - 12V+, Blue - Preset 1, White - Preset 2, Green - Preset 3, Brown - Preset 4.

To activate the preset hold the Red 12v+ to whichever preset you want to go to. (Example, holding the red and blue wires together will activate preset 1 and the lift will travel to that preset.)

To send the lift HOME all you have to do is break the connection. (Example, releasing the red wire from the blue wire) Note: There is about a 5 second delay before the lift will go home. This is incase you want to go from one preset to another preset.

RS232 for SMARTBOX (DB9 Connector)

Port Settings: Baud: 1200, Data: 8, Parity: None, Stop: 1

ASCII Command Sets

Function #1 - Send	F1
Function #2 - Send	F2
Function #3 - Send	F3
Function #4 - Send	F4
HOME - Send	FHOME
ESC - Send	FESC - Incase you want to stop the lift as it is moving.

*** NOTE *** You must use the RF remote control provided to set all your limits, settings, and functions before using RS232. Put switch in RUN mode to use RS232 and put switch back into PRG (Program) mode to use the RF remote control. The RF remote won't work when the unit is in RUN mode.

ALARMS

To assist with troubleshooting the SMART BOX emanates a series of “beeps”.

The matrix is shown below; the beeps always start with a short beep to get your attention then followed by a series of longer beeps ranging from 1 to 6 depending on the error that has occurred.

ERROR CODE MATRIX

Number of BEEPS	1
Fault	ABB while descending
Solution	Back OFF ABB check for obstructions, “-“
Recovery	ESC on Key PAD

Number of BEEPS	2
Fault	Cannot find rotate zero signal
Solution	Check rotate motor wiring and look for cable damage
Recovery	ESC on Key PAD

Number of BEEPS	3
Fault	Encoder direction or encoder failure
Solution	Check main post wiring
Recovery	ESC on Key PAD

Number of BEEPS	4
Fault	Encoder fault on power down
Solution	Re-power lift from beginning
Recovery	Perform Master re-set and Re-teach all settings

Number of BEEPS	5
Fault	Memory Fail
Solution	Re-power lift from beginning
Recovery	Perform Master re-set and Re-teach all settings

Number of BEEPS	6
Fault	Entered Bad HOME position, no rotate at zero signal
Solution	Re-power lift from beginning. Re-teach Home Position
Recovery	Perform Master re-set and Re-teach all settings

NOTE:

If any alarm keeps re-occurring please contact our Service Dept toll free at 1-877-543-8711