

SO YOU WANT TO INSTALL A LCD TV IN YOUR BORN FREE

HOW TO REPLACE YOUR OLD PHILLIPS 19" CRT TV IN THE ENTERTAINMENT CENTER WITH A NEW SAMSUNG 20" LCD TV

A) INTRODUCTION

Since the size of the opening in wood TV mounting frame in the entertainment center is 19" high by 19" wide, this will directly dictate and limit the choices of a replacement LCD TV.

- 1) The LCD TV should be just short of 19" wide to snugly fit the opening width wise.
- 2) The LCD TV should have its speakers on the bottom rather than on the sides to permit the largest screen size available to fit the opening
- 3) Since the LCD TV was to be mounted behind the opening in the wood frame, the manual controls for it should be on the lower front side of the TV rather than the more common location on the back side along the top on the TV.
- 4) Since the tolerance of the new LCD TV to shock and vibration that a motorhome will subject it to is unknown, the TV was mounted with rubber shock isolators to help protect it.



PHOTO #1

The 20" LCD TV chosen for this project was the Samsung 20" Model LT-P2045 shown in Photo

#1 above. It's 18.9" width and 17.2" height is a very good fit for the existing size of the wood mounting frame opening.

The original oak wood TV mounting frame in the entertainment center is permanently attached to the center woodwork with quantity 8 long brass screws. Since the replacement LCD TV is very thin, it will not take up much depth behind the TV into the rear storage area of the entertainment center. Since the LCD TV was going to be mounted on the rear side of this wood mounting frame, it would make sense to add a 1-1/2 wide by 24" long piano hinge across the top and convert this wood frame to door with the LCD TV attached. Having this as a lift up door will permit a wide and easy access opening to the storage area in the rear of the entertainment center.

The choice of the Samsung 20" LCD TV mounted as high as possible to the rear side opening of the wood mounting frame also allows 4" of empty space between the bottom of this TV and the base of the carpeted floor in the entertainment center. This space is adequate to install a VCR/DVD Combo Player and a Sanyo Model DVW-7200 was selected to mount in that location.

The blue object just to the right of the Sanyo VCR/DVD Player is an optional Samlex 300-watt Inverter.

B) FINAL RESULTS

Photo #2 below shows the front view of the final installation.



PHOTO #2

Photo #3 below shows this installation with the center door open and also showing the Samlex 300-watt inverter used to run both the TV and VCR/DVD units off of coach battery power.



PHOTO #3

Another side view of the installation with the door open is shown below in Photo #4 below.



PHOTO #4

C) PROJECT DETAILS

Photo #5 below shows the entertainment center with the old 19" Phillips CRT TV and wood TV mounting frame removed.



PHOTO #5

- 1) Step #1 - remove oak wood mounting frame by removing a total of 8 Phillips head brass screws from around the frame. The frame can then be removed from the entertainment center.
- 2) Step #2 - remove the black fabric strap from around the front perimeter of the Phillips 19" CRT TV.
- 3) Step #3 - disconnect both the AC power cord and the TV antenna coax cable directly from the associated connectors on the rear of the TV.
- 4) Step #4 - slowly pull the TV forward towards yourself thru the opening. Careful! This old CRT TV is heavy!
- 5) Step #5 - once sufficiently pulled forward approximately 10", it can be tilted forward and downward out of the entertainment center.
- 6) Step #6 - remove the TV coax and AC power cables by loosening and removing where they are attached via various cable clamps attached to the wood mounting base for the TV inside the entertainment center.
- 7) Step #7 - remove the wood TV mounting base shown in Photo #6 below by removing 1 screw in each of the front corners and 3 screws along the rear holding the base to the floor of the entertainment center.



PHOTO #6

Photo #7 below shows the front view of the removed and modified wood TV mounting frame.



Photo #7

Since the wood TV mounting frame is going to be converted to a top hinged door, the 8 mounting screw holes are filled in with quantity 8 brown pan head #8 x 1/2 inch decorative wood screws. Also, a black metal handle has been added to the bottom of the frame to act as a door opening handle.