



SAMSUNG 20" LCD TV MOUNTING - REAR VIEW

PHOTO #15

The flat side against the rear side of the wood door of each 1.0" x 1.0" x 19.5" long aluminum angle is attached by a quantity of 14 #8 x 3/4" pan head Phillips wood screws - quantity 7 each side. Please note that the two aluminum bracket assemblies are pressed together against the left and right sides of the TV with a moderate enough force to slightly deform the rubber shock mounts. This force will prevent the TV's attachment to the brackets via the Velcro interface from coming loose.

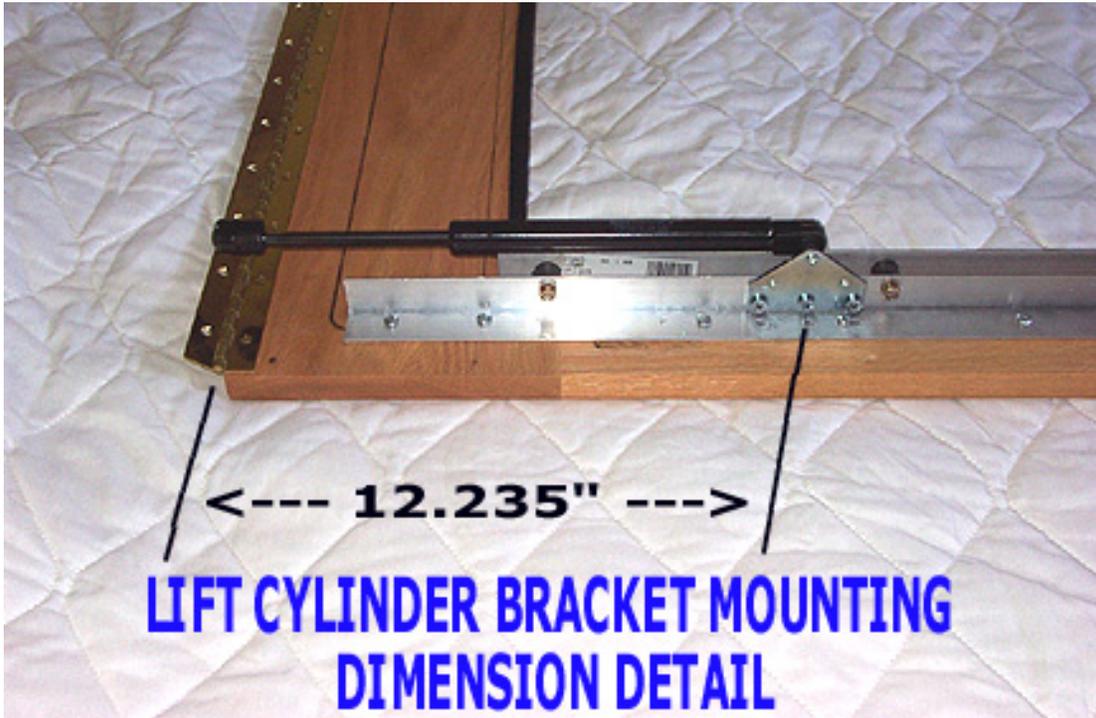
Also, the mounting of the TV should be such that the front face of the TV along the edges should be spaced back from the rear side of the wood door by approximately 1/8" to permit the TV to 'float' on its rubber shock mounts without touching the door or aluminum brackets in any manner. This spacing will protect the TV from hitting against any hard mounting surface caused by road shock that the motorcoach will be subjected to while traveling.

Photo #16 below shows what the mounting of the TV to the door looks like from the front view of the door.



PHOTO #16

Go back and review Photo #4 again. The two lift support gas cylinders can be seen in the upper part of the photo behind the TV. The gas cylinders selected have a lifting force of 40 lbs each, an extended length of 12.2" and a compressed length of 8.2". The attachment details and mounting dimensions shown in the following Photos #17 and #18 are critical for the proper operation and fit of these cylinders.



**LIFT CYLINDER BRACKET MOUNTING
DIMENSION DETAIL**

PHOTO #17

The 12.235" dimension shown in Photo #17 is from the precise center of the cylinder mounting bracket where it is attached to the aluminum bracket assembly to the precise center of brass piano hinge joint.



**Entertainment Center Lift Cylinder Mounting
Bracket Location Detail**

Screw holes for 24" brass hinge
Lift Cylinder Mounting Bracket

Center Line of Brass Hinge

4.0"

PHOTO #18

The 4.0" dimension shown in Photo #18 is from the precise center of the cylinder mounting bracket where it is attached to the back side and near the top of the opening in the entertainment center to where the precise center of brass piano hinge joint would be if the door hinge were fastened to the wood structure above and along the center opening in the entertainment center.

Please note that the center of the brass piano hinge joint is not the same as the location of the screw holes for the hinge but is above that location.

Also, due to the large forces (40 lbs) placed on each cylinder bracket where they are attached to the wood framework of the entertainment center as shown in Photo #18, each bracket was attached to the woodwork with quantity 3 #10-32 x 1.0" Phillips flat countersunk head machine screws clear thru the wood and the cylinder bracket mounting holes and fastened tightly with #10-32 elastic stop nuts on the rear side.

D) ADVICE: If you don't want to tackle a project like this on your own, the Born Free factory is developing a LCD TV conversion kit using an Initial brand LCD TV. Contact the factory for details.

E) LIST OF MAJOR COMPONENTS AND PARTS REQUIRED

<u>QTY</u>	<u>DESCRIPTION</u>	<u>COST</u>
1	Samsung 20" LCD TV, Model LT-P2045	\$499.00
1	Sanyo VCR/DVD Player, Model DVW-7200	\$80.00
1	Samlex 300-watt, 12 VDC to 120 VAC Inverter, Model PST-30S-12A - available from DonRowe.com - 800-367-3019 - http://www.donrowe.com/inverters/puresine_300.html (optional)	\$169.00
2	Suspa P/N C16-11028 Lift Support Gas Cylinder, 40 lb, 12" - available from Century Distributing, Inc - Phone 1-866-222-2258 - www.centurydistributing.com - \$24.00 each	\$48.00
2	P/N GPB-1 Gas Cylinder Mounting Bracket, Right Angle - available from Century Distributing, Inc - Phone 1-866-222-2258 - www.centurydistributing.com - \$3.00 each	\$6.00
2	P/N GPB-2 Gas Cylinder Mounting Bracket, Straight - available from Century Distributing, Inc - Phone 1-866-222-2258 - www.centurydistributing.com - \$3.00 each	\$6.00
6	P/N 3049-02 Rubber Shock Mounts - available from Pegasus Auto Racing Supplies, Inc. - Phone 1-800-688-6946 - www.pegasusautoracing.com - \$4.99 each	\$29.94
1	P/N 19910 1-1/2" wide x 24" long brass piano hinge - available from Rocker Woodworking and Hardware - 1-800-279-4441 - www.rockler.com	\$17.99
2	Plastic Door Latch assemblies, Born Free P/N 205-1658 - \$4.00 each	\$8.00
1	1.0" x 1.0" x 1/16" thick by 8' long aluminum angle - Menards P/N 2278322, also available from Lowes or Home Depot	\$9.47
1	1.0" x 1/8" thick by 3' long thick aluminum flat stock - Menards P/N 2279855, also available from Lowes or Home Depot	\$3.46
1	Velcro, 1" wide by 5' long hook and loop self-adhesive tape - available from Wal-mart	\$5.00
A/R	Miscellaneous mounting hardware - screws & nuts, etc	\$10.00
TOTAL ESTIMATED COST - taxes and shipping, not included		\$891.86

Project completed by: William R. Hemme
 Spencer, Iowa
 712-262-1126
 whemme@avionicstraining.com