

AN-CM270

INSTALLATION INSTRUCTIONS FOR CEILING MOUNTING BRACKET FOR USE ONLY WITH SHARP PROJECTOR MODEL XV-Z2000/DT-400

CEILING MOUNTING BRACKET AN-CM270







CEILING MOUNTING BRACKET COMBINED WITH OPTIONAL ADJUSTABLE EXTENSION TUBE MODEL AN-EP101B





CAUTION

INSTALLATION OF THIS ADJUSTABLE WALL MOUNTING BRACKET SHOULD BE PERFORMED BY QUALIFIED SERVICE/INSTALLATION PERSONNEL FOLLOWING THE INSTALLATION INSTRUCTIONS INCLUDED WITH THIS BRACKET



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.



IMPORTANT! THE INSTALLER SHOULD READ THESE INSTRUCTIONS THOROUGHLY BEFORE BEGINNING THE INSTALLATION AND SHOULD MAKE SURE THAT ALL THE WORK IS DONE IN COMPLIANCE WITH NEC AND ALL LOCAL BUILDING AND SAFETY CODES. SAVE THIS BOOKLET AFTER THE INSTALLATION IS COMPLETED. THE ACCESSORIES REFERRED TO IN THESE INSTRUCTIONS ARE INTENDED FOR USE ONLY WITH COMPATIBLE SHARP PROJECTORS. SEE SHARP PROJECTOR OWNER'S MANUAL OR SHARP DEALER TO DETERMINE SUITABILITY.



CAUTION: THE BRACKET MOUNTING SCREWS MUST GO DIRECTLY INTO THE BEAMS. SHEETROCK, LATH AND PLASTER, WILL NOT PROVIDE A SUFFICIENTLY SECURE SUPPORT.



CAUTION: TO REDUCE THE RISK OF PERSONAL INJURY, USE ONLY THE COMPONENTS WHICH ARE INCLUDED IN THIS PACKAGE, OR SPECIFIED IN THESE INSTRUCTIONS.

PARTS LIST FOR MODEL AN-CM270

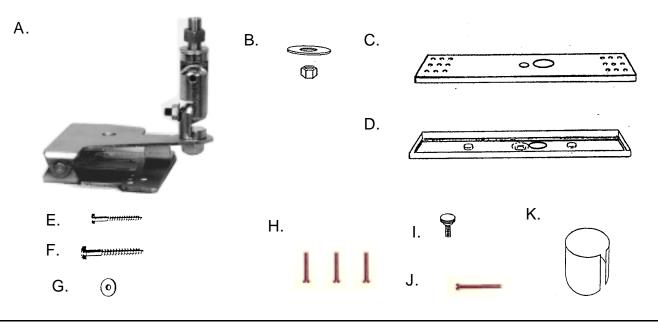
CEILING BRACKET (SEE FIG. 1)

ITEM	DESCRIPTION	QUANTITY
Α.	PROJECTOR ATTACHMENT PLATE WHICH INCLUDES THE KNUCKLE	
	POSITIONING ASSEMBLY.	1
B.	LOCKING HEX NUT & WASHER	1
C.	STEEL CEILING MOUNTING PLATE	1
D.	PLASTIC TRIM FOR CEILING PLATE	1
E.	1/4 X 10 HEX HEAD LAG BOLTS 2-1/2" LONG	6
F.	1/4 X 10 HEX HEAD LAG BOLTS 3" LONG	6
G.	1/4" I.D. WASHERS FOR USE WITH LAG BOLTS	6
Н.	M4 X 12mm FLAT HEAD MOUNTING SCREWS FOR USE WITH ATTACHMENT PLAT	TE 3
Ι.	M4 X 12mm KNURLED THUMB SCREW	1
J.	M4X30mm FLAT HEAD SCREW	1
К.	PLASTIC TRIM COLLAR	1



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FIGURE 1. ILLUSTRATION OF PARTS FOR CEILING BRACKET



INVERT THE PROJECTOR IMAGE

Please refer to the owners manual for your LCD Projector for detailed instructions of how to electrically invert the projected image to accommodate its use in the ceiling mounted mode.

LOCATION OF THE CEILING BRACKET

Please refer to the owner's manual for your SHARP LCD PROJECTOR for information which will help you to determine the best location for the placement of the ceiling mounting bracket assembly.

INSTALLATION OF THE CEILING BRACKET

After you have determined the appropriate location for the ceiling bracket, you must locate the exact location of the ceiling beams. Most standard residential construction uses 16 inches between centers for overhead beams. You can mount the ceiling bracket by straddling two beams, or you can install the bracket in line with a single beam.

CAUTION: THE BRACKET MOUNTING SCREWS MUST GO DIRECTLY INTO THE BEAMS. SHEETROCK, LATH AND PLASTER, WILL NOT PROVIDE A SUFFICIENTLY SECURE SUPPORT.

STEP 1. INSTALLATION OF THE METAL CEILING BRACKET

After the location for the ceiling bracket has been determined, (see LCD PROJECTOR Owner's Manual), make sure to locate beams in the ceiling.



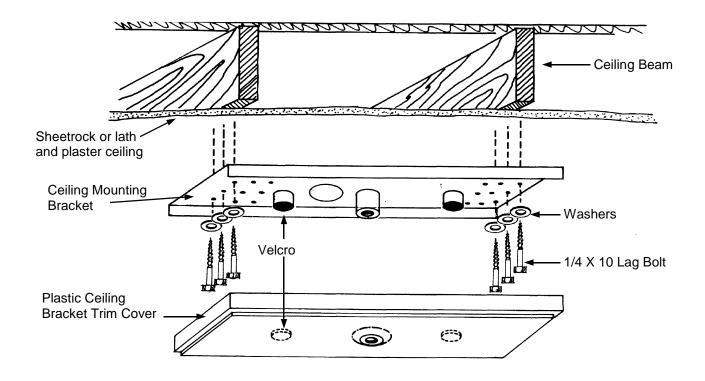
- 1.1 a. Select straddle beam or single beam installation.
 - b. Use the ceiling bracket as a template to mark the location where the pilot holes should be drilled.
 - c. Drill the pilot holes for the support screws using a 1/8" drill bit into the center of the beam. (See Figs. 2 and 3).
- 1.2 Screw the ceiling plate to the beams. Use at least 6 screws and metal washers supplied with the unit. These screws should be tightened firmly to insure a vibration-free support. (See Figs. 2 and 3).

Two sizes of hex head lag bolts are provided. Use shorter screws for sheet rock surfaces and use the longer screws if the ceiling surface is constructed of a wood lath and plaster.



CAUTION: THE BRACKET MOUNTING SCREWS MUST GO DIRECTLY INTO THE BEAMS. SHEETROCK OR LATH AND PLASTER WILL NOT PROVIDE A SUFFICIENTLY SECURE SUPPORT.

FIGURE 2. ILLUSTRATION OF STRADDLE BEAM CEILING BRACKET INSTALLATION

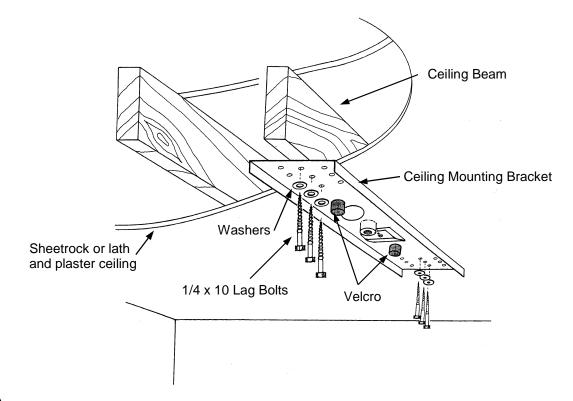


NOTE: THE OUTER ROW OF HOLES ARE 16" BETWEEN CENTERS WHICH IS THE MOST COMMON BEAM SPACING IN RESIDENTIAL WOOD FRAME CONSTRUCTION.



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FIGURE 3 ILLUSTRATION OF SINGLE BEAM CEILING BRACKET INSTALLATION

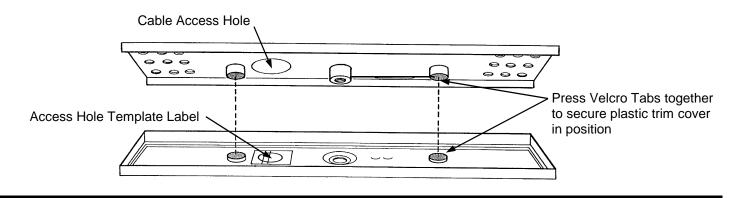


DO NOT RUN THE AC POWER CORD THROUGH THE CEILING PLATE AND TRIM COVER

STEP 2. INSTALL THE CEILING MOUNT PLASTIC TRIM

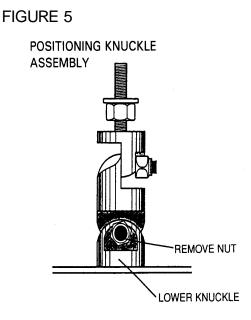
- 2.1 The Access Hole (See Fig. 4) in the ceiling attachment plate is large enough to accommodate the molded connectors commonly used the with projector.
- 2.2 Audio, Video and other low voltage connections may be passed through the access hole in the ceiling plate and may also be passed through the plastic trim cover. There is a label (See Fig. 4) on the inside of the plastic trim cover, adjacent to the center mounting bushing.
- 2.3 Select the contour appropriate for your application and cut out the opening along the line indicated on the label. Use a very sharp cutting tool.
- 2.4 Thread the cable through the plastic trim cover. Place the plastic trim cover in place over the ceiling plate and press the velcro tabs together.

FIGURE 4 INSTALLATION OF PLASTIC TRIM ON THE CEILING BRACKET





STEP 3 DETACH THE POSITIONING ASSEMBLY FROM THE PROJECTOR ATTACHMENT PLATE.



NOTE: PLEASE LOOK OVER THE EXACT MANNER IN WHICH THE POSITIONING ASSEMBLY AND THE ATTACHMENT PLATE GO TOGETHER SO THAT YOU WILL BE ABLE TO REASSEMBLE THEM WHEN YOU HANG THE PROJECTOR.

3.1 Using 9/16" box wrench, remove the nut from the lower knuckle (vertical position) and slide the center and upper knuckle assembly apart from the bottom knuckle which is part of the attachment plate. (See Fig. 5)

SPECIAL NOTE TO INSTALLERS: In some instances the relationship of the location of the projection screen to the exact position of the ceiling mounting bracket makes it desirable to have the centerline of the lens at the center of the mounting bracket. If you find it necessary to have the lens at the centerline of the mount, remove the lower element of the positioning knuckle from its original position and re-mount it in the D shaped hole in the mounting plate located in the area over the lens. This will align the centerline of the lens with the center of the mounting bracket. The positioning knuckle assembly can easily compensate for the slight loss of static balance of the mounted projector.

STEP 4 INSTALLATION OF THE PROJECTOR ATTACHMENT PLATE

- 4.1 Place the attachment plate over the bottom of the projector (See Fig. 6) and align the holes of the plate with the threaded fittings on the projector case.
- 4.2 Install the three M4 x 12mm long screws provided. Fasten these securely but DO NOT overtighten. (See Fig. 7)
- 4.3 Install the longer, M4 x 30 mm flat head screw into the indicated hole. (It goes into the recessed fitting in the plastic housing).

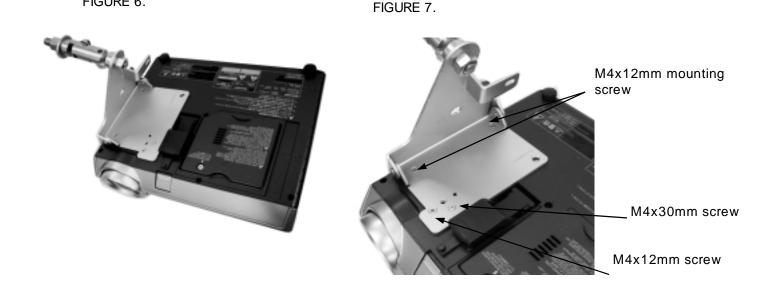


FIGURE 6.

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- 4.3 Fold the attachment plate down on its hinge. See Fig. 8
- 4.4 Install the M4 knurled thumb screw by hand. See Fig. 8. DO NOT USE TOOLS TO TIGHTEN THIS SCREW.

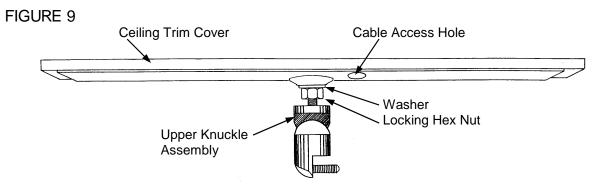
FIGURE 8

M4 Knurled Thumb Screw



REMINDER: MAKE SURE TO ALLOW SUFFICIENT SLACK IN THE WIRING TO PERMIT THE PROJECTOR TO SWING DOWN ON THE HINGE TO ALLOW EASY SERVICING OF THE FILTER AND THE LAMP ASSEMBLY.

STEP 5 ATTACH THE POSITIONING ASSEMBLY TO THE CEILING PLATE



IF YOU INTEND TO RUN AUDIO OR VIDEO CABLES THROUGH THE CEILING PLATE PROCEED WITH STEP 5.1 AND 5.2, OTHERWISE PROCEED TO STEP 5.3:

- 5.1 Cut opening in the ceiling plate trim cover as indicated on the label inside cover near the center bushing.
- 5.2 Thread cables through the plastic trim cover.

DO NOT RUN THE AC POWER CORD INSIDE THE PLASTIC TRIM COVER. ALL WIRING MUST COMPLY WITH THE NEC AND ALL LOCAL BUILDING, ELECTRIC, AND SAFETY CODES.



- 5.3 Place the plastic trim cover in position over the ceiling plate and press the Velcro tabs together.
- 5.4 After completing step #5.3, screw the longer shaft with the locking nut and washer into the center threaded bushing on the ceiling plate as far as it will go. (See Fig. 9)
- 5.5 Tighten the locking nut against the ceiling plate using a 3/4" open end wrench or an adjustable crescent wrench.
- 5.6 Tighten the locking nut on the upper knuckle using a 9/16" box wrench.



DO NOT RUN THE AC POWER CORD INSIDE THE PLASTIC TRIM COVER. ALL WIRING MUST COMPLY WITH THE NEC AND ALL LOCAL BUILDING, ELECTRIC, AND SAFETY CODES.

STEP 6 HANGING THE PROJECTOR FROM POSITIONING ASSEMBLY

- 6.1 Raise the projector with the mounting plate attached and slide the fitting (See Fig. 10) over the support stud on the hanging position.
- 6.2 Replace the locking nut (removed in step 3.1). Using the 9/16" box wrench run the nut up but do not tighten all the way.



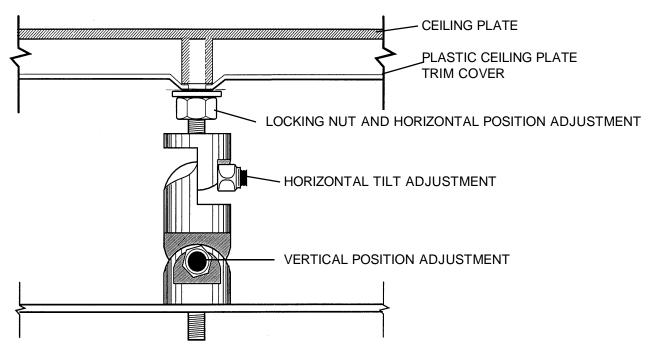
FIGURE 10

STEP 7 AIM THE PROJECTOR

- 7.1 After the projector has been property wired, turn it on and loosen the positioning assembly adjustment nuts just enough so that you can move the projector fairly easily. (See Fig. 11) DO NOT COMPLETELY LOOSEN THE NUTS.
- 7.2 Set the Horizontal Centering by loosening the ceiling locking nut, move the projector to center the image and tighten the nut. (Use 3/4" open end wrench).
- 7.3 Set the vertical centering and tighten the lower positioning adjustment nut. (See Fig. 11)
- 7.4 Set the Horizontal tilt and tighten the upper positioning adjustment nut. (See Fig. 11)



FIGURE 11 DETAIL OF POSITIONING ASSEMBLY



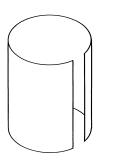
STEP 8 INSTALL THE PLASTIC TRIM COLLAR

- 8.1 The plastic trim collar may be used as a cosmetic concealment of the positioning adjustment knuckle assembly and the audio and video signal cables.
- 8.2 The slit side of the collar enables the installer to spread the collar enough to place it over the adjustment knuckle. It will curve back by its own spring action to wrap around itself enough to close the gap. (See Fig. 12)

FIGURE 13

8.3 If the projector is hung at a sharp angle, you may trim the collar for a better fit. (See Fig. 13)

FIGURE 12





DO NOT RUN THE AC POWER CORD INSIDE THE PLASTIC TRIM COLLAR. ALL WIRING MUST COMPLY WITH THE NEC AND ALL LOCAL BUILDING, ELECTRIC AND SAFETY CODES.

NOTE: IN THE EVENT YOU WISH TO USE THE SHARP ADJUSTABLE EXTENSION ACCESSORY IN CONJUNCTION WITH THE CEILING MOUNTING BRACKET, PLEASE REFER TO THE INSTALLATION INSTRUCTION MANUAL INCLUDED IN THE EXTENSION TUBE PACKAGE.



FIGURE 14. HINGED ATTACHMENT PLATE

PROCEDURE FOR SERVICING LAMP HOUSING OR AIR FILTER:

- A. Remove the knurled thumb screw. See Fig. 14. The projector will swing down on the hinge of the mounting bracket. The bottom of the projector will now be in a position to permit servicing the lamp assembly.
- B. Proceed to service the air filter or the lamp assembly. Follow the appropriate instructions in your projector owner's manual.



C. After completing the service procedure swing the projector back up and re-install the knurled thumb screw.

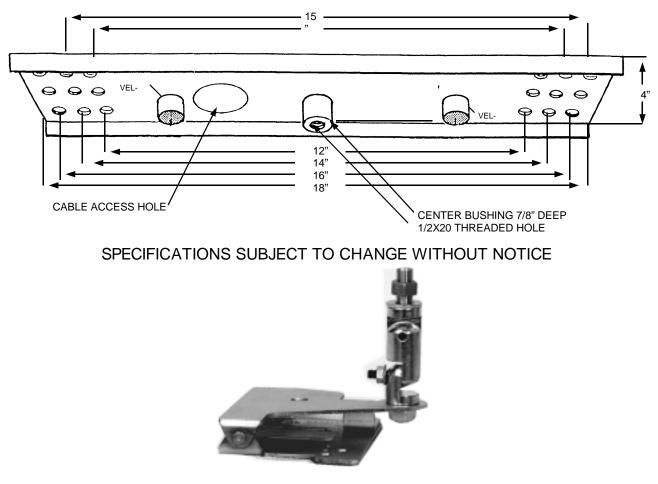
NOTE: HINGED ATTACHMENT PLATE ALLOWS PROJECTOR TO DROP DOWN FOR EASY ACCESS TO FILTER AND LAMP HOUSING. SEE PROJECTOR OWNER'S MANUAL FOR DETAILS OF FILTER OR LAMP REPLACEMENT PROCEDURES.



DIMENSIONS AND MEASUREMENTS OF COMPONENTS FOR SHARP MOUNTING BRACKET AN-CM70

CEILING PLATE 4" WIDE X 18" LONG

DISTANCE BETWEEN SETS OF MOUNTING HOLES: 1st SET 12", 2nd SET 14", 3rd SET 16" ADDITIONAL POSSIBLE COMBINATIONS OF MOUNTING HOLE DISTANCE 13" & 15" THREAD SIZE OF SWIVEL SHAFT & CEILING PLATE BUSHING 1/2" X 20



ATTACHMENT PLATE WITH POSITIONING ASSEMBLY: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

- A. From ceiling to inverted bottom of projector: 5 1/2"
- B. Length of position adjustment knuckle assembly: 3 1/2"
- C. Lens offset from center of lens to center of mounting bushing: 3"
- D. Ceiling to center of lens: 7"
- E. Ceiling to top of inverted projector: 8 7/8"
- F. Mounting screws M4 X 12 & 30 mm long metric flat head phillips.



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