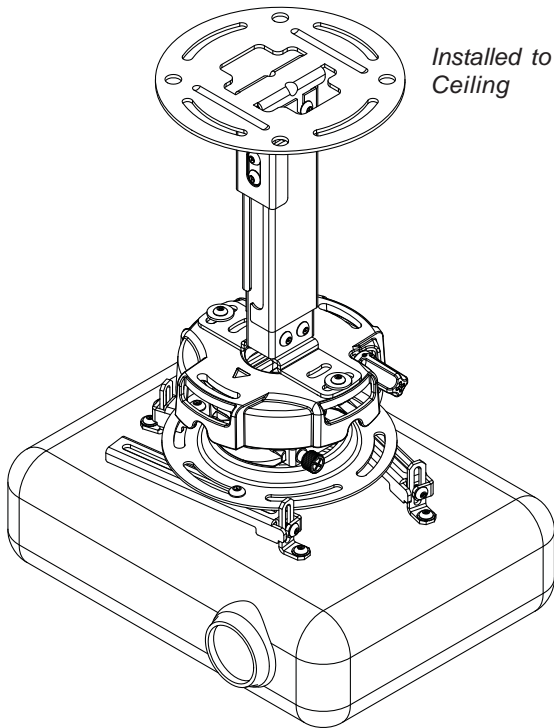# peerless®

Installation and Assembly:
Projector Ceiling/Wall Mount

Models: PRG-EXA, PRG-EXA-S, PRG-EXA-W
PRG-EXB, PRG-EXB-S, PRG-EXB-W
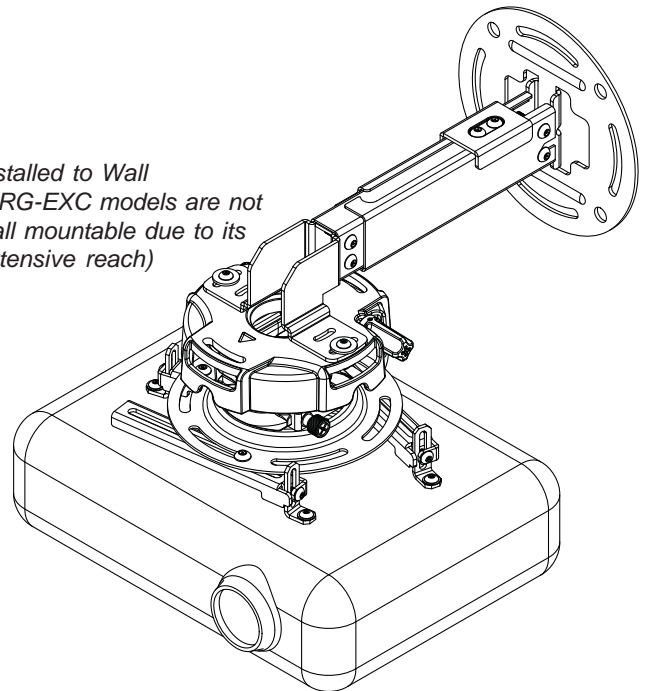**PRG-EXC, PRG-EXC-S, PRG-EXC-W**

c **UL** us

This product is intended for use with UL Listed products and must be installed by a qualified professional installer.

Maximum UL Load Capacity:
50 lb (22.7 kg)

Installed to Ceiling

Installed to Wall (PRG-EXC models are not wall mountable due to its extensive reach)

Features:

• Continuous channel design for uninterrupted drop length or wall extension adjustments
• Safety catch designed into extension to ensure user and equipment safety
• Internal cable management within channels for clean, clutter-free appearance
• Includes PRG Series projector mount for precise image alignment

Note: Read entire instruction sheet before you start installation and assembly.

⚠ WARNING

- Do not begin to install your Peerless product until you have read and understood the instructions and warnings contained in this Installation Sheet. If you have any questions regarding any of the instructions or warnings, please call Peerless customer care at 1-800-865-2112.

- This product should only be installed by someone of good mechanical aptitude, has experience with basic building construction, and fully understands these instructions.

- Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.

- Never exceed the Maximum UL Load Capacity. See page 1.

- If mounting to wood ceiling/wall studs, make sure that mounting screws are anchored into the center of the studs. Use of an "edge to edge" stud finder is highly recommended.

- Always use an assistant or mechanical lifting equipment to safely lift and position equipment.

- Tighten screws firmly, but do not overtighten. Overtightening can damage the items, greatly reducing their holding power.

- This product is intended for indoor use only. Use of this product outdoors could lead to product failure and personal injury.

- This product was designed and intended to be mounted to the following supporting surfaces checked below with the hardware included in this product as specified in the installation sheet. To mount this product to an alternative supporting surface, contact Peerless customer care at 1 800 865-2112.

- This product was designed to be installed on the following ceiling/wall construction only;

CEILING/WALL CONSTRUCTION		ADDITIONAL HARDWARE REQUIRED
☒	Wood Stud	None
☒	Wood Joist	None
☒	Solid Concrete	None
☒	Cinder Block	None
☐	Metal Stud	Do not attach except with Peerless accessory kit for metal studs; Contact Customer Service for Peerless accessory kit for metal studs.
☐	Brick	Contact Customer Service
☐	Other or unsure?	Contact Customer Service

Tools Needed for Assembly

- stud finder ("edge to edge" stud finder is recommended)
- drill
- phillips screw driver
- 1/4" bit for concrete and cinder block wall
- open end wrench
- 5/32" bit for wood stud or joist
- level
- 8 mm open end wrench

Table of Contents

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Visit the Peerless Web Site at www.peerlessmounts.com   For customer care call 1-800-865-2112 or 708-865-8870.

Parts List

	Description	Qty.	PRG-EXA PRG-EXB Part #	PRG-EXA-S PRG-EXB-S Part #	PRG-EXA-W PRG-EXB-W Part #	PRG-EXC Part #	PRG-EXC-S Part #	PRG-EXC-W Part #
A	projector mount assembly	1	055-1802	055-4802	055-2802	055-1802	055-4802	055-2802
B	adapter plate	1	055-0619	055-0620	055-0621	055-0619	055-0620	055-0621
C	concrete anchor	2	590-0097	590-0097	590-0097	590-0097	590-0097	590-0097
D	#14 x 2.5" phillips hex head wood screw	2	5S1-015-C03	5S1-015-C04	5S1-015-C04	5S1-015-C03	5S1-015-C04	5S1-015-C04
E	#10-32 x 1/4" socket pin screw	1	520-1196	520-2196	520-2196	520-1196	520-2196	520-2196
F	1/4" flat washer	6	540-1078	540-2078	540-2078	540-1078	540-2078	540-2078
G	#6 flat washer x .5 OD	4	540-1025	540-2025	540-2025	540-1025	540-2025	540-2025
H	2 mm security allen wrench	1	560-1097	560-1097	560-1097	560-1097	560-1097	560-1097
I	4 mm security allen wrench	1	560-9646	560-9646	560-9646	560-9646	560-9646	560-9646
J	M3 x 8 mm serrated washer head socket pin screw	4	510-1004	510-2004	510-2004	510-1004	510-2004	510-2004
K	M4 x 10 mm serrated washer head socket pin screw	4	510-1060	510-2060	510-2060	510-1060	510-2060	510-2060
L	M5 x 10 mm serrated washer head socket pin screw	4	510-1126	510-2063	510-2063	510-1126	510-2063	510-2063
M	M6 x 10 mm serrated washer head socket pin screw	4	510-1066	510-2066	510-2066	510-1066	510-2066	510-2066
AA	ceiling plate	1	055-1773	055-4773	055-2773	055-1773	055-4773	055-2773
BB	outer channel	1	SEE CHART	SEE CHART	SEE CHART	SEE CHART	SEE CHART	SEE CHART
CC	inner channel	1	SEE CHART	SEE CHART	SEE CHART	SEE CHART	SEE CHART	SEE CHART
DD	clamp plate	1	055-1771	055-4771	055-2771	055-1771	055-4771	055-2771
EE	vertical mounting plate	1	055-1876	055-4876	055-2876	055-1876	055-4876	055-2876
FF	horizontal mounting plate	1	055-1787	055-4787	055-2787	N/A	N/A	N/A
GG	M5 x 16 mm socket pin screw	2	520-1161	520-2161	520-2161	520-1161	520-2161	520-2161
HH	M6 x 12 mm socket pin screw	2	520-1050	520-2050	520-2050	520-1050	520-2050	520-2050
II	M6 x 10 mm socket pin screw	4	520-1066	520-2066	520-2066	520-1066	520-2066	520-2066
JJ	M5 x 10 mm socket pin screw	4	520-1063	520-2063	520-2063	520-1063	520-2063	520-2063
KK	serrated locknut	2	530-1027	530-2042	530-2042	530-1027	530-2042	530-2042
LL	cable cover	2	SEE CHART	SEE CHART	SEE CHART	SEE CHART	SEE CHART	SEE CHART

OUTER CHANNEL, INNER CHANNEL AND CABLE COVER PART NUMBER CHART

Model#	extendable length	outer channel (B) part#	inner channel (C) part#	cable cover (Q) part#
PRG-EXA	8.69" - 12.79"	055-1779	055-1778	055-1809-2
PRG-EXA-S	8.69" - 12.79"	055-4779	055-4778	055-4809-2
PRG-EXA-W	8.69" - 12.79"	055-2779	055-2778	055-2809-2
PRG-EXB	12.69" - 20.69"	055-1776	055-1775	055-1809-1
PRG-EXB-S	12.69" - 20.69"	055-4776	055-4775	055-4809-1
PRG-EXB-W	12.69" - 20.69"	055-2776	055-2775	055-2809-1
PRG-EXC	19.14" - 32.9"	055-1770	055-1769	055-1809
PRG-EXC-S	19.14" - 32.9"	055-4770	055-4769	055-4809
PRG-EXC-W	19.14" - 32.9"	055-2770	055-2769	055-2809

Visit the Peerless Web Site at www.peerlessmounts.com

For customer care call 1-800-865-2112 or 708-865-8870.

A

B

C

D

E

F

G

H

I

J

K

L

M

AA

BB

CC

DD

EE

FF

GG

HH

II

JJ

KK

LL
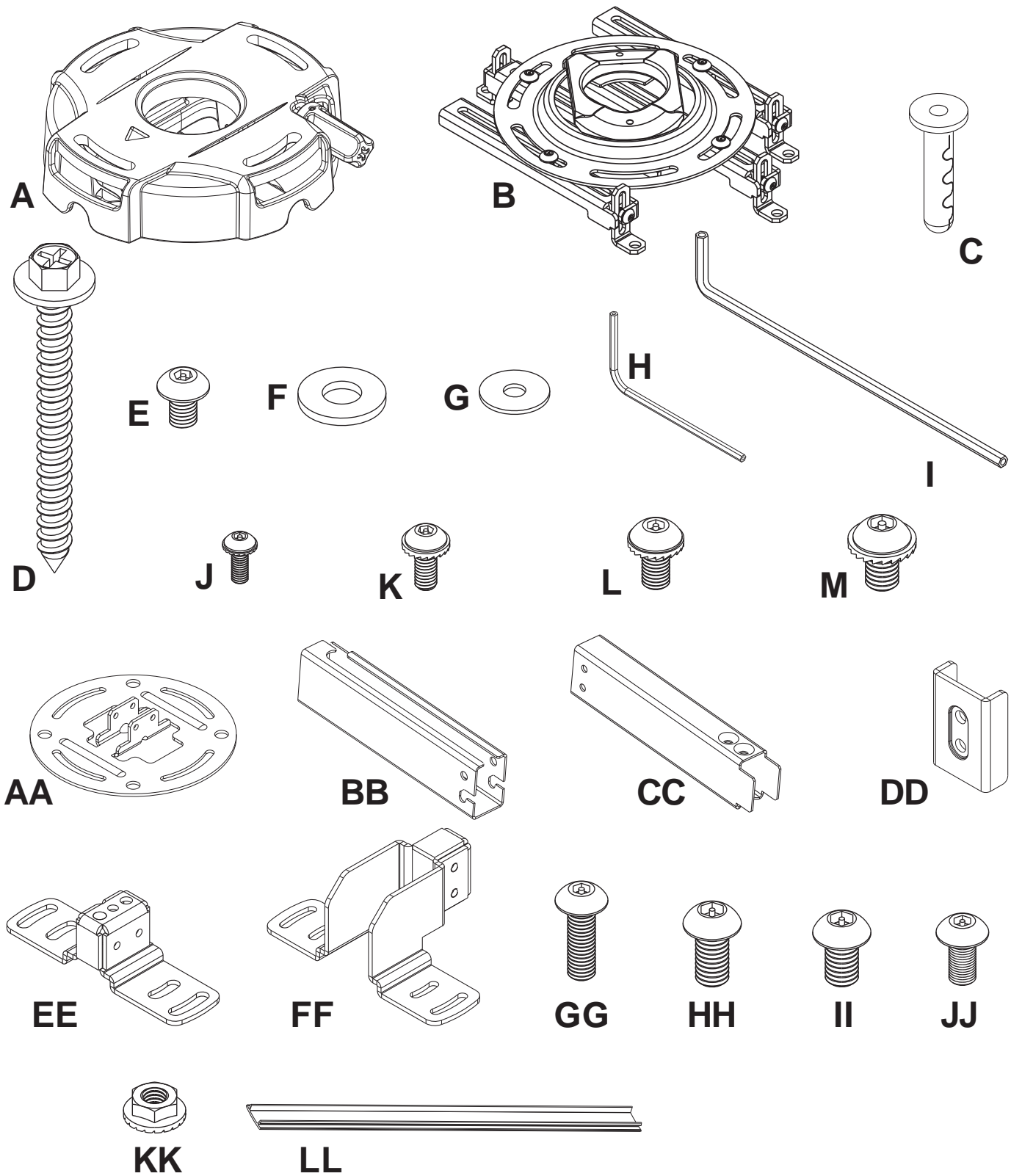
1 Install Outer Channel to Ceiling Plate

Attach outer channel (**BB**) to ceiling plate (**AA**) using four M6 x 10 mm socket pin screws (**II**) as shown.

Tighten screws with 4 mm security wrench (**I**).

II

AA

BB

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For customer care call 1-800-865-2112 or 708-865-8870.
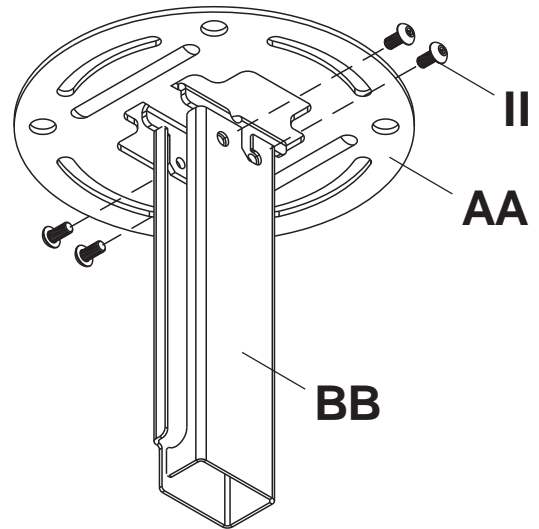
Installation to Wood Joist Ceilings or Wood Stud Walls

⚠ WARNING

- Installer must verify that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.

- Tighten wood screws so that ceiling/wall plate is firmly attached, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.

- Never tighten in excess of 80 in. • lb (9 N.M.).

- Make sure that mounting screws are anchored into the center of the stud or joist. The use of an "edge to edge" stud finder is highly recommended.

- Hardware provided is for attachment of mount through standard thickness drywall or plaster into wood studs or joists. Installers are responsible to provide hardware for other types of mounting situations (not UL approved).

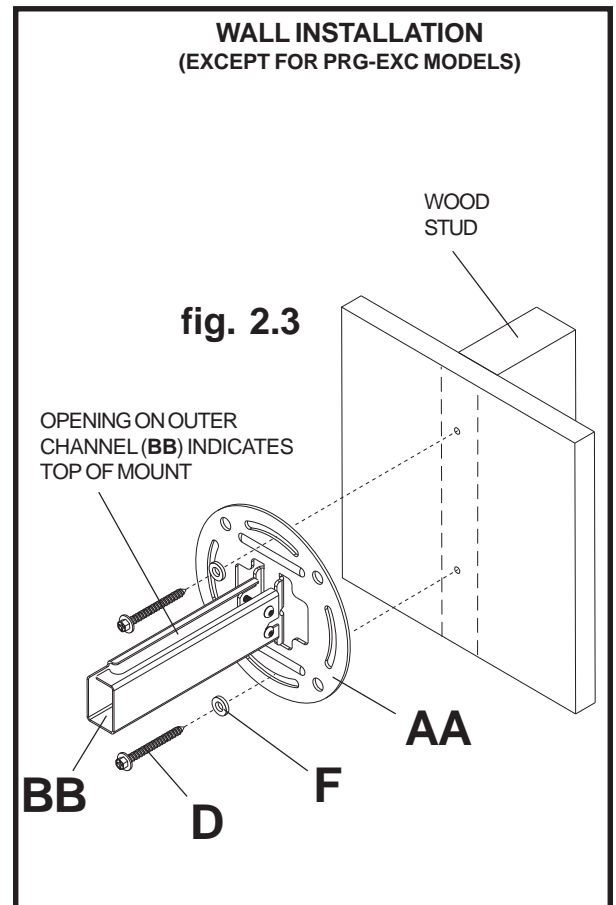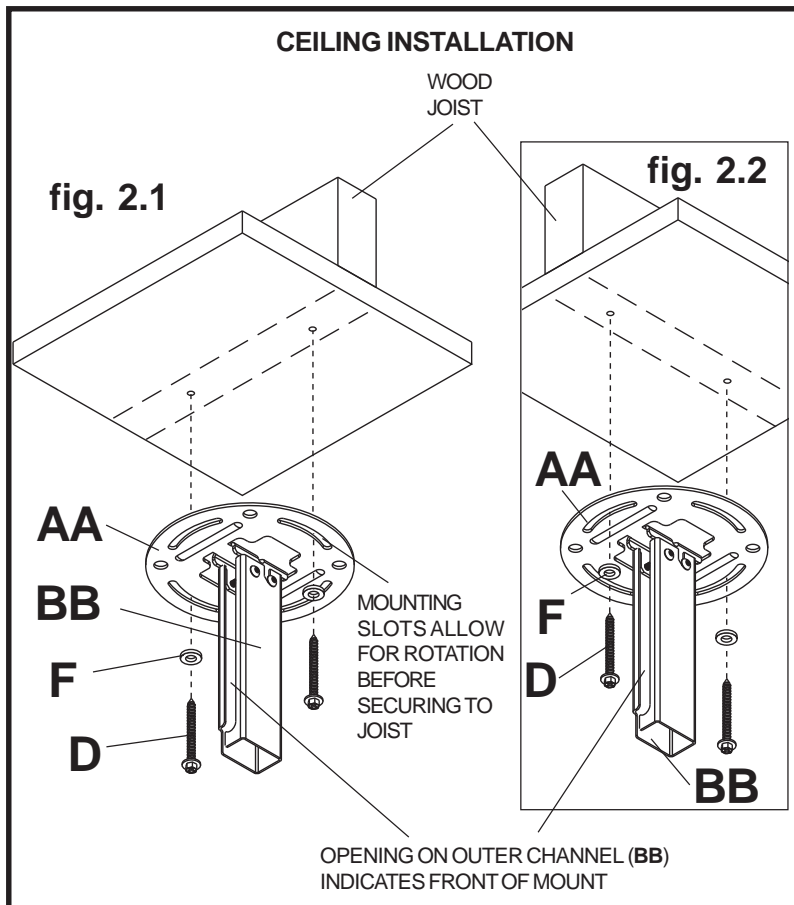**2** **NOTE: Wall installation with models PRG-EXC, PRG-EXC-S and PRG-EXC-W is not available.**

Use a stud finder to locate the edges of the stud or joist. Use of an edge-to-edge stud finder is highly recommended. Based on its edges, draw a vertical line down the stud's or joist's center. Place ceiling/wall plate (**AA**) on wall or ceiling as a template, making sure that the two mounting slots are on the centerline.

For ceiling installation: Opening on outer channel (**BB**) indicates front of mount. Use the correct mounting slots on the ceiling/wall plate depending on ceiling joist orientation as shown in figure 2.1 and figure 2.2. Mounting slots on ceiling plate allow for 45° (±22.5) of rotation before securing to joist.

For wall installation: Opening on outer channel (**BB**) indicates top of mount.

Mark the center of the two mounting holes. Drill two 5/32" (4 mm) dia. holes 2-1/2" (65 mm) deep. Secure ceiling/wall plate (**AA**) to wood stud or joist using two #14 x 2-1/2" wood screws (**D**) and two 1/4" washers (**F**) as shown.

Skip to step 3

CEILING INSTALLATION

WOOD JOIST

fig. 2.1

fig. 2.2

AA

BB

F

D

MOUNTING SLOTS ALLOW FOR ROTATION BEFORE SECURING TO JOIST

AA

F

D

BB

OPENING ON OUTER CHANNEL (**BB**) INDICATES FRONT OF MOUNT

WALL INSTALLATION
(EXCEPT FOR PRG-EXC MODELS)

WOOD STUD

fig. 2.3

OPENING ON OUTER CHANNEL (**BB**) INDICATES TOP OF MOUNT

AA

BB

D

F

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For customer care call 1-800-865-2112 or 708-865-8870.

Installation to Concrete Ceilings or Concrete/Cinder Block Walls

⚠ WARNING

- When installing Peerless wall mounts on cinder block, verify that you have a minimum of 1-3/8" of actual concrete thickness in the hole to be used for the concrete anchors. Do not drill into mortar joints! Be sure to mount in a solid part of the block, generally 1" minimum from the side of the block. Cinder block must meet ASTM C-90 specifications. It is suggested that a standard electric drill on slow setting is used to drill the hole instead of a hammer drill to avoid breaking out the back of the hole when entering a void or cavity.

- Concrete must be 2000 psi density minimum. Lighter density concrete may not hold concrete anchor.

- Installer must verify that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.

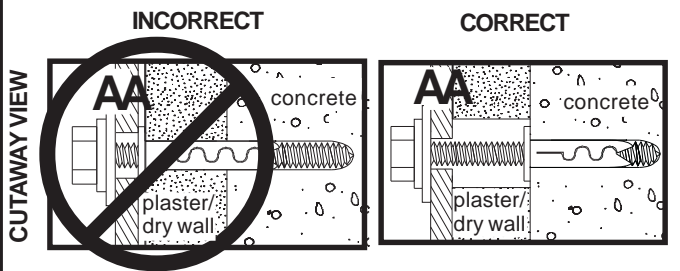**2** **NOTE: Wall installation with models PRG-EXC, PRG-EXC-S and PRG-EXC-W is not available.**

Place ceiling/wall plate (**AA**) on ceiling or wall as a template. **Note:** Place ceiling/wall plate according to position of opening in outer channel (**BB**) as shown in figure 2.4. or figure 2.5. Drill two 1/4" (6 mm) dia. holes to a minimum depth of 2.5" (64 mm). Attach ceiling/wall plate (**AA**) using two concrete anchors (**C**), two #14 x 2.5" wood screws (**D**) and two 1/4" washers (**F**) as shown in figure 2.6. Tighten wood screws (**D**) until ceiling/wall plate (**AA**) is firmly attached.

⚠ WARNING

- Tighten wood screws firmly, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.

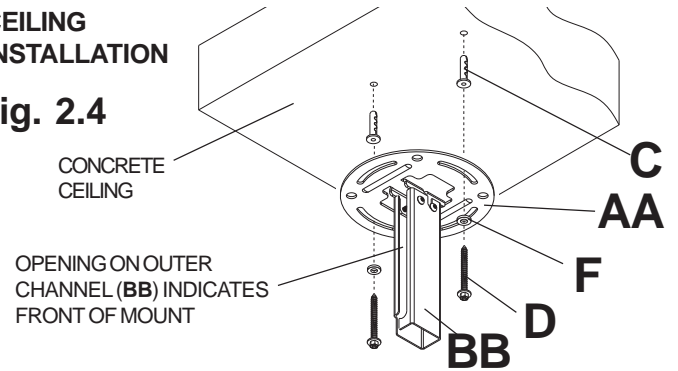- Never tighten in excess of 80 in • lb (9 N.M.).

⚠ WARNING

- Always attach concrete expansion anchors <u>directly</u> to load-bearing concrete.

- Never attach concrete expansion anchors to concrete covered with plaster, drywall, or other finishing material. If mounting to concrete surfaces covered with a finishing surface is unavoidable, the finishing surface must be counterbored as shown below. Be sure concrete anchors do not pull away from concrete when tightening screws. If plaster/drywall is thicker than 5/8" (16 mm), custom fasteners must be supplied by installer (not UL approved).

CUTAWAY VIEW

INCORRECT

AA — concrete
plaster/dry wall

CORRECT

AA — concrete
plaster/dry wall

CEILING INSTALLATION

fig. 2.4

CONCRETE CEILING

OPENING ON OUTER CHANNEL (**BB**) INDICATES FRONT OF MOUNT

C
AA
F
D
BB

WALL INSTALLATION (EXCEPT FOR EXC MODELS)

fig. 2.5

CINDER BLOCK WALL

CONCRETE WALL

OPENING ON OUTER CHANNEL (**BB**) INDICATES TOP OF MOUNT

BB D F AA C

fig. 2.6

1

concrete surface
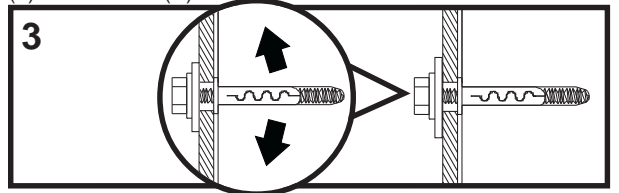
C
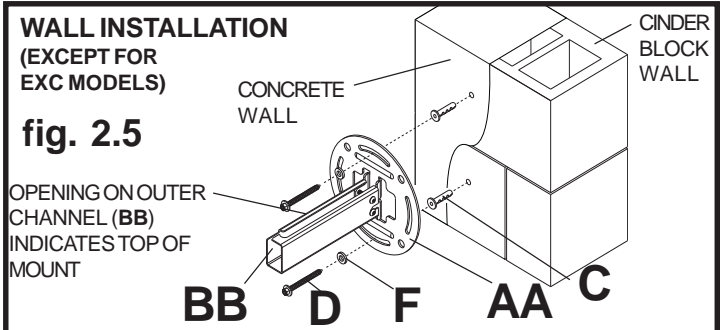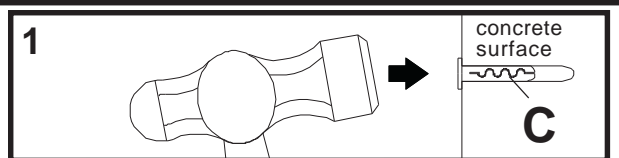
Drill holes and insert anchors (**C**).

2

D AA

F C
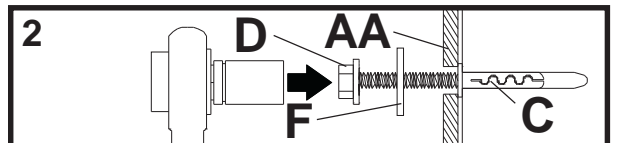
Place plate (**AA**) over anchors (**C**) and secure with washers (**F**) and screws (**D**).

3

Tighten all fasteners.

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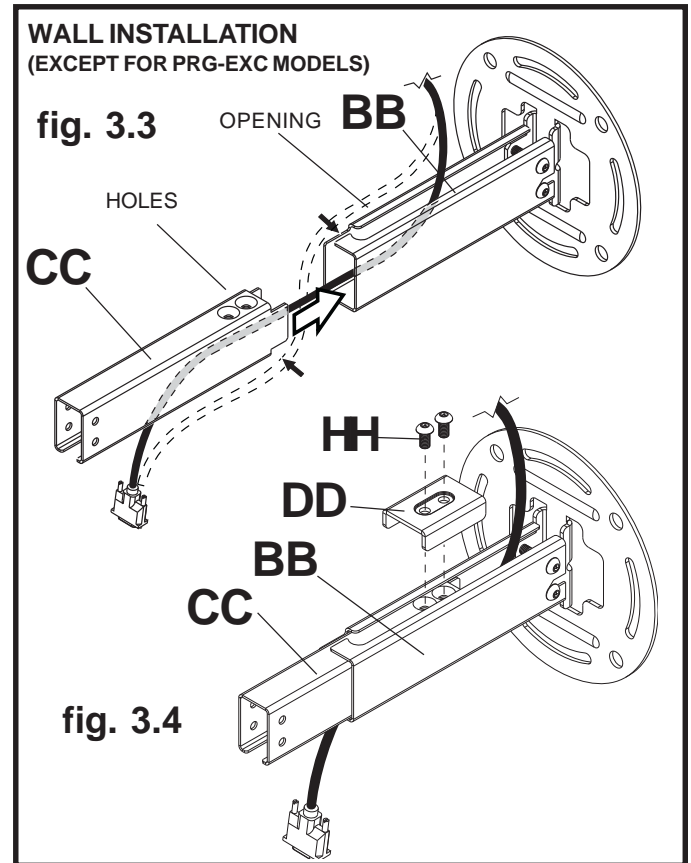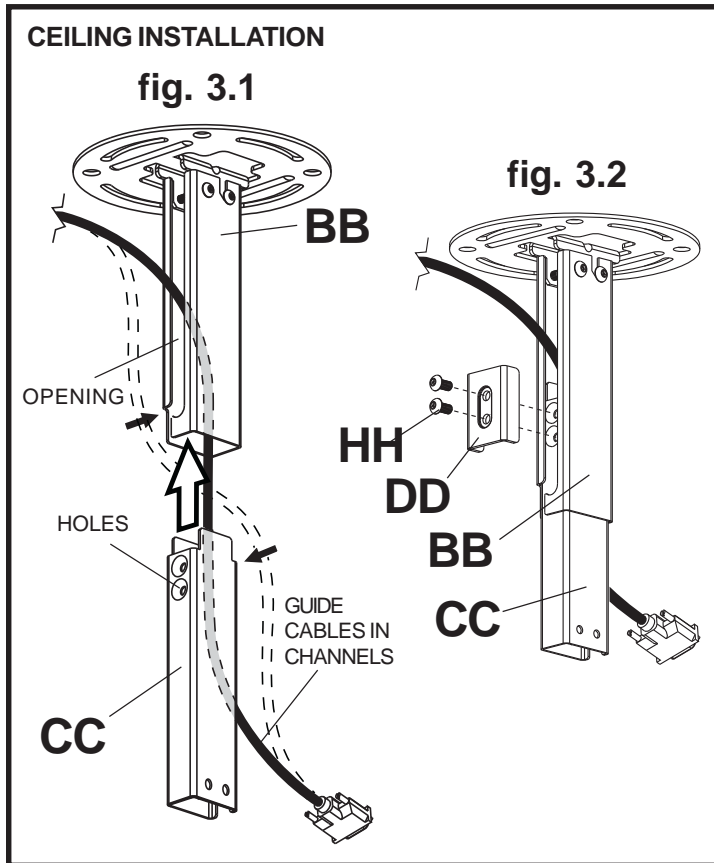For customer care call 1-800-865-2112 or 708-865-8870.

Installing Inner Channel and Routing Cables

3

Note: Be certain holes on inner channel (**CC**) face in the same direction of opening on outer channel (**BB**).

Note: Cables must be removed from projector before routing through channels. If cables are not removable from projector, routing through channels is not an option.

Guide projector cables into openings in channels then insert inner channel (**CC**) into outer channel (**BB**) as shown in figure 3.1 or 3.3.

Position inner channel (**CC**) to the desired extended position and secure using two M6 x 12 mm socket pin screws (**HH**) through clamp plate (**DD**) and into inner channel (**CC**) as shown in figure 3.2 or 3.4.
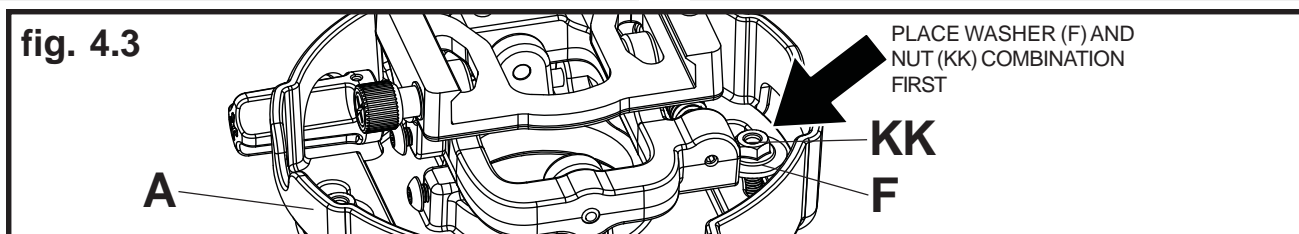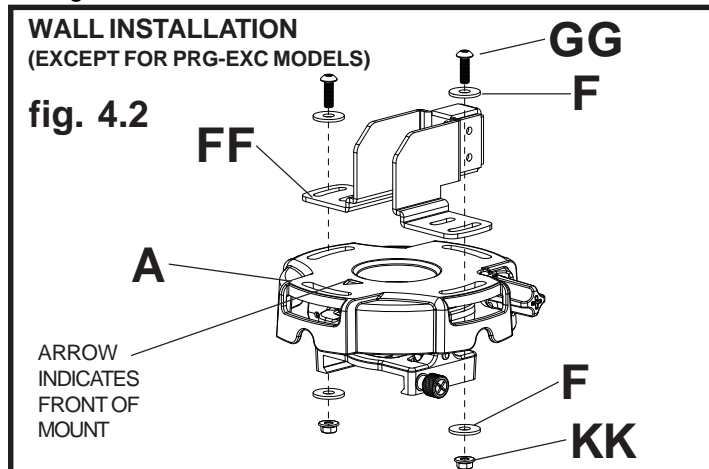
CEILING INSTALLATION

fig. 3.1

BB

fig. 3.2

OPENING

HH

DD

BB

HOLES

CC

GUIDE CABLES IN CHANNELS

CC

WALL INSTALLATION
(EXCEPT FOR PRG-EXC MODELS)

fig. 3.3

OPENING

BB

HOLES

CC

HH

DD

BB

CC

fig. 3.4

Visit the Peerless Web Site at www.peerlessmounts.com

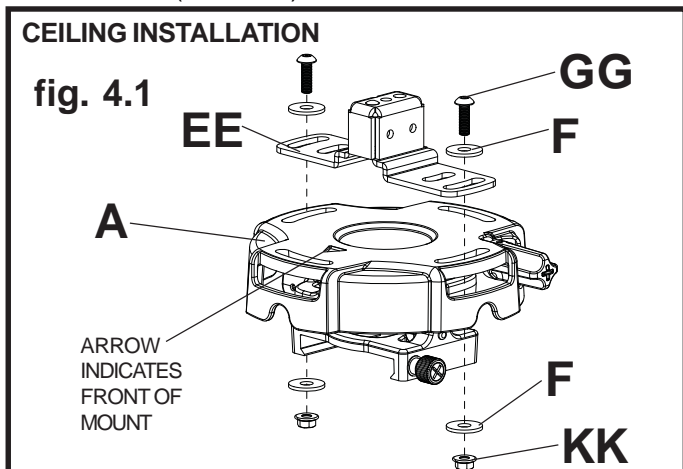For customer care call 1-800-865-2112 or 708-865-8870.

Installing Projector Mount

4 **Installing PRG projector mount with ceiling installation:** Attach vertical mounting plate (**EE**) to PRG projector mount (**A**) using two M5 x 16 mm socket pin screws (**GG**), four 1/4" washers (**F**) and two locknuts (**KK**) as shown in figure 4.1.

Installing PRG projector mount with wall installation: Position PRG projector mount (**A**) to the orientation shown in figure 4.2 and attach to horizontal mounting plate (**FF**) using two M5 x 16 mm socket pin screws (**GG**), four 1/4" washers (**F**) and two locknuts (**KK**).

NOTE: Placing washer (**F**) and nut (**KK**) combination on inside of PRG projector mount first while attaching mounting bracket (**EE or FF**) can make installation easier as shown in figure 4.3.

CEILING INSTALLATION

fig. 4.1

GG

EE

F

A

ARROW INDICATES FRONT OF MOUNT

F

KK

WALL INSTALLATION
(EXCEPT FOR PRG-EXC MODELS)

fig. 4.2

GG

F

FF

A

ARROW INDICATES FRONT OF MOUNT

F

KK

fig. 4.3

PLACE WASHER (F) AND NUT (KK) COMBINATION FIRST

KK

A

F

5 **Ceiling installation:** Insert vertical mounting plate (**EE**) into inner channel (**CC**) with PRG projector mount (**A**) in the correct orientation shown in figure 5.1. Secure vertical mounting plate to inner channel using four M5 x 10 mm socket pin screws (**JJ**) as shown in figure 5.2.

CEILING INSTALLATION
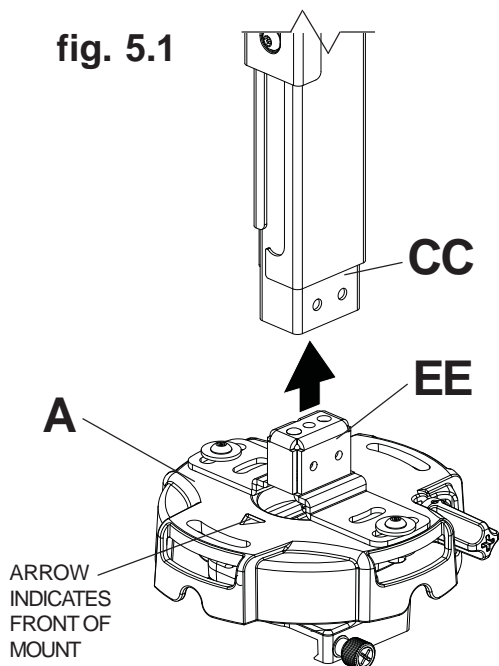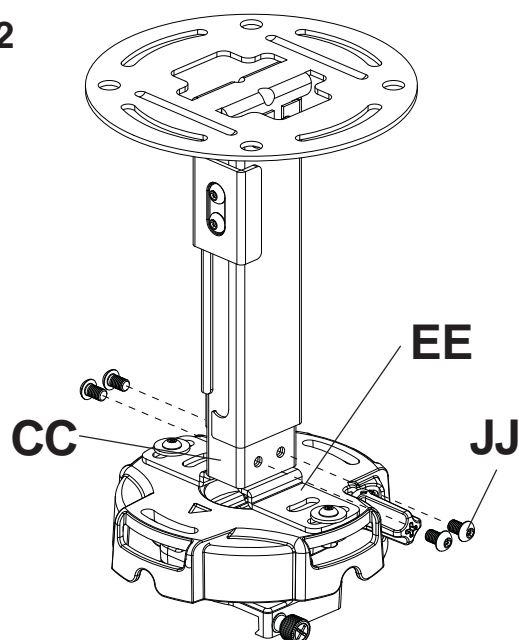
fig. 5.1

CC

EE

A

ARROW INDICATES FRONT OF MOUNT

fig. 5.2

EE

CC

JJ

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5 **Wall installation:** Insert horizontal mounting plate (**FF**) into inner channel (**CC**) as shown in figure 5.3. Secure horizontal mounting plate to inner channel using four M5 x 10 mm socket pin screws (**JJ**) as shown in figure 5.4.

WALL INSTALLATION
(EXCEPT FOR PRG-EXC MODELS)

fig. 5.3

ARROW
INDICATES
FRONT OF
MOUNT

CC

FF

A

fig. 5.4

CC

JJ

FF

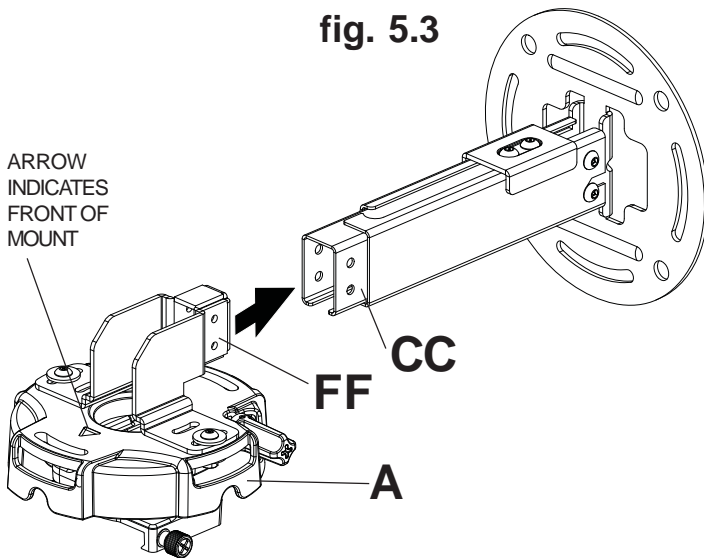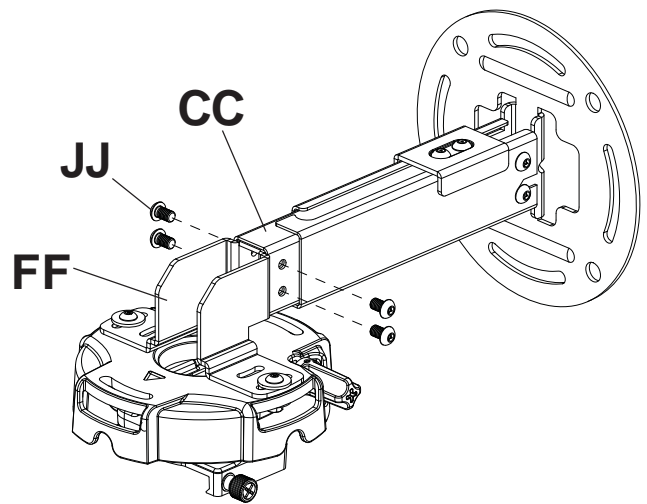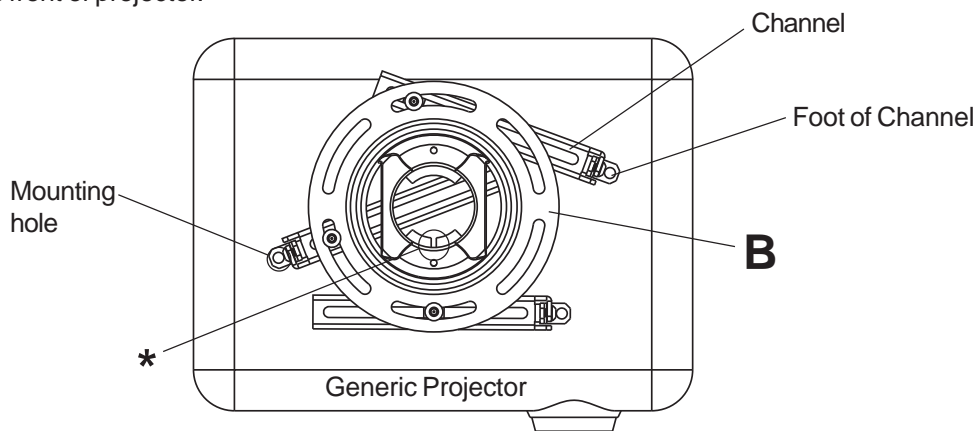## Attaching Adapter Plate to Projector

Note: The projector you are installing may differ in appearance from the sample illustrated below.

6 Place projector upside down. Locate adapter plate (**B**) with notch facing forward as close to projector center of gravity as possible without covering any mounting holes. Loosen channels with 4 mm security allen wrench (**I**), and **if there are only three mounting holes remove fourth channel**. Using one channel for each mounting hole, position feet of channels over mounting holes as shown below. **Important**: If projector does not have at least three mounting holes, do not use this adapter plate.

Note: Some projectors have feet which can be removed and the corresponding threaded insert can be used for a mounting hole.
Note: Once channels are in position retighten fasteners.

*Notch indicates front of projector.

Channel

Foot of Channel

Mounting
hole

B

*

Generic Projector

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7 Attach adapter plate (**B**) to projector using one screw (**J, K, L or M**) for each channel as shown below. Tighten all screws, while keeping the center of gravity. Be sure that adapter plate (**B**) is straight. Adjust the feet of the channels to keep the adapter plate level. Tighten all screws with 4 mm security allen wrench (**I**) while keeping the center of gravity. If M3 x 8 mm screws (**J**) are used, tighten using 2 mm security allen wrench (**H**).
Note: Projectors will require different size screws for mounting. Use a combination of screws (**J, K, L or M**) and foot adjustment that will result in channels of adapter plate (**B**) fitting tightly against projector. **Important**: In order to properly engage the threads in the mounting holes, the screw must be turned at least 3 full turns.
Note: If using screw (**J**), place washer (**G**) between screw (**J**) and foot of channel.
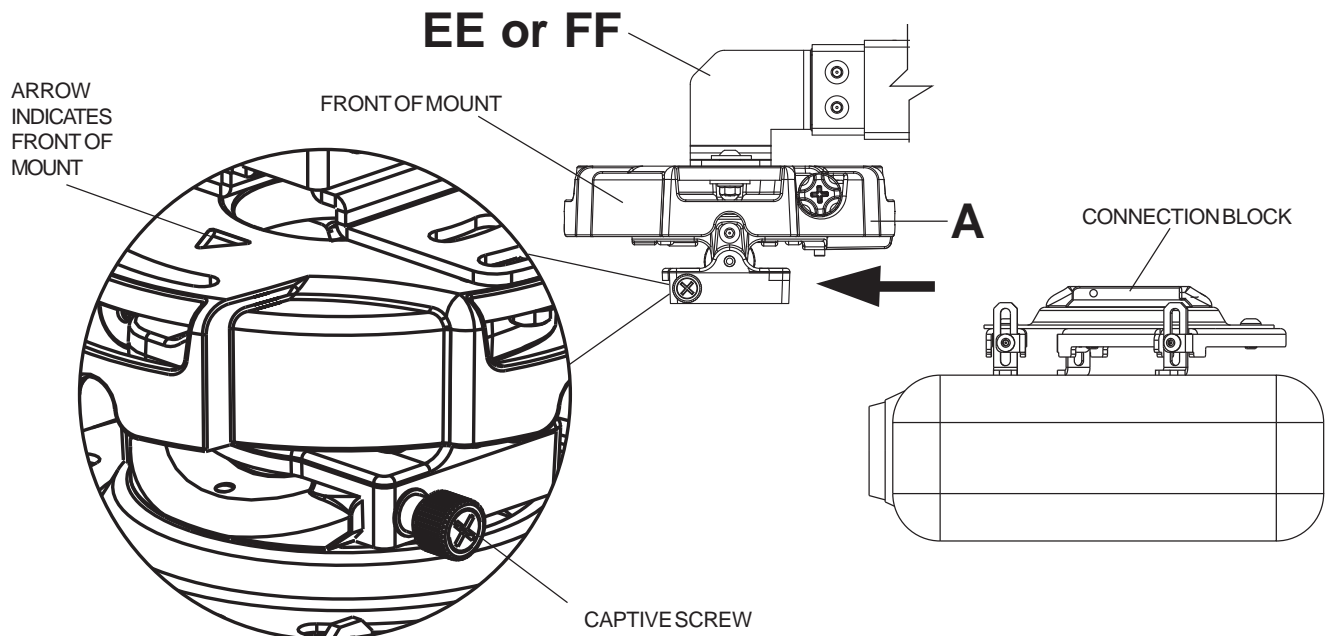
CAUTION

- It is the responsibility of the installer to ensure that the projector is properly ventilated. Feet of channels are used to raise the mount off the projector surface.

B

J, K, L or M

FOOT OF CHANNEL
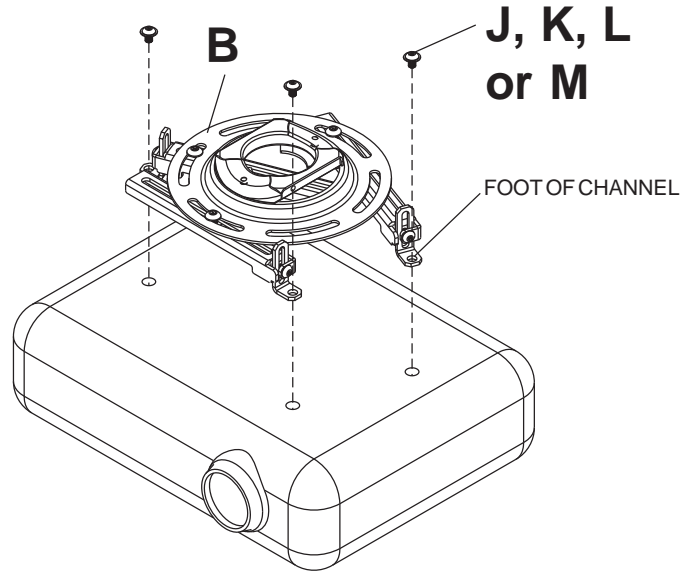
⚠ WARNING

- Always use an assistant or mechanical lifting equipment to safely lift and position the projector.

8 Slide connection block with projector into projector mount assembly (**A**) as shown. Push in and tighten captive screw to secure projector to projector mount assembly (**A**).
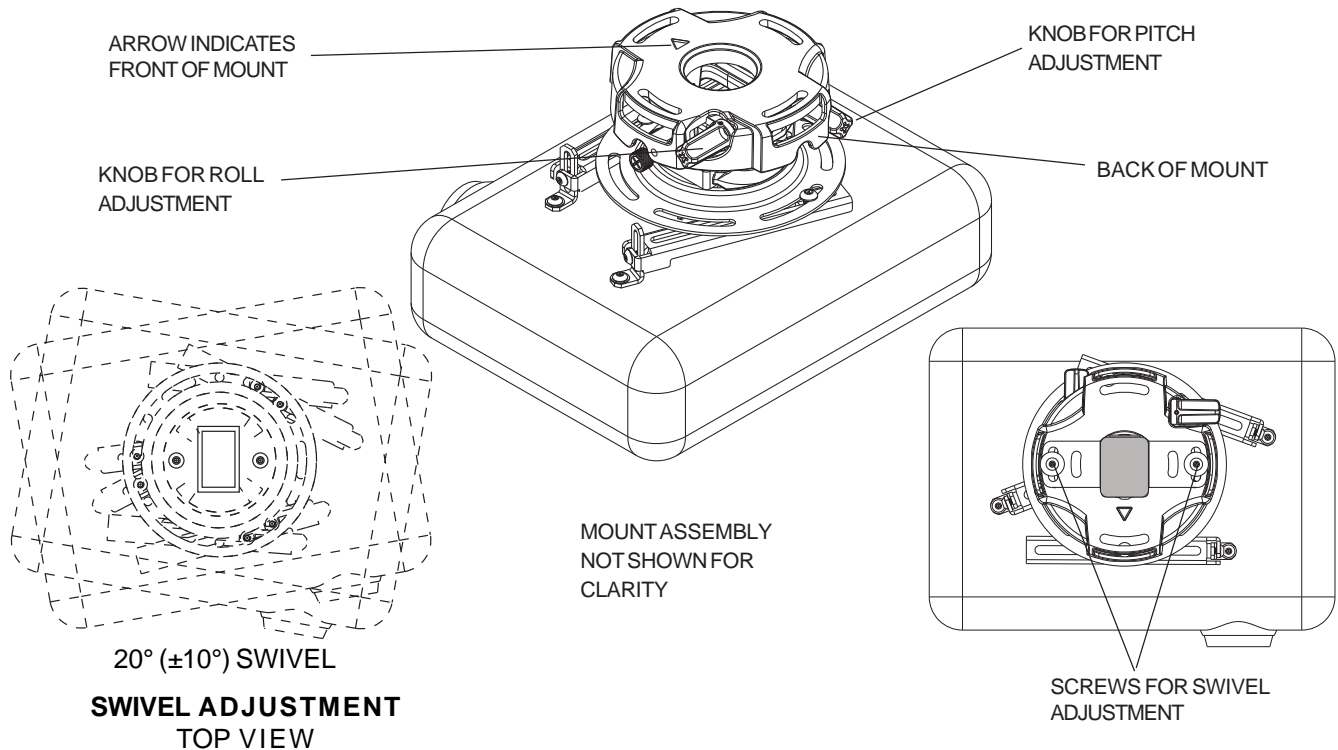
EE or FF

ARROW INDICATES FRONT OF MOUNT

FRONT OF MOUNT

A

CONNECTION BLOCK

CAPTIVE SCREW

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For customer care call 1-800-865-2112 or 708-865-8870.

9 **IMPORTANT**: For security installations, insert one #10-32 x 1/4" socket pin screw (**E**) through projector mount assembly (**A**) and into connection block as shown. Tighten screw with 4mm security allen wrench (**I**).

CONNECTION BLOCK

A

E
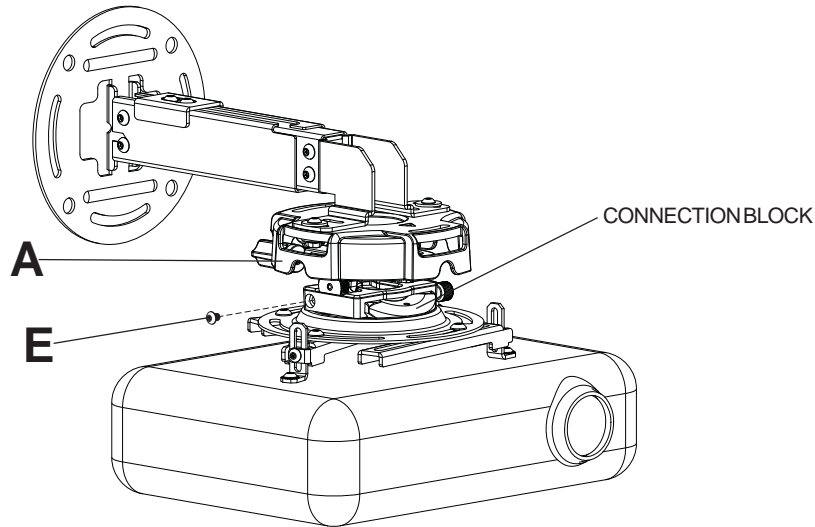
Projector Alignment

10 **To adjust yaw (swivel):** Loosen two screws indicated below half a turn using allen wrench (**I**). Align projector to the desired swivel position and fully tighten screws indicated.
To adjust pitch (forward and backward tilt): Turn knob on back of mount as shown below. Pull knob out and turn by hand for easy adjustment or insert #2 phillips screwdriver in end of knob and turn.
To adjust roll (side to side tilt): Turn knob on side of mount as shown below. Pull knob out and turn by hand for easy adjustment or insert #2 phillips screwdriver in end of knob and turn.

ARROW INDICATES
FRONT OF MOUNT

KNOB FOR PITCH
ADJUSTMENT

KNOB FOR ROLL
ADJUSTMENT

BACK OF MOUNT

MOUNT ASSEMBLY
NOT SHOWN FOR
CLARITY

20° (±10°) SWIVEL

SWIVEL ADJUSTMENT
TOP VIEW

SCREWS FOR SWIVEL
ADJUSTMENT

⚠ WARNING

• Do not loosen adjustment screws to the point they become disengaged from the mount. Weight of the projector should be supported in case of accidental disengagement.

NOTE: For tamper proofing of projector alignment, see step 10-1 on page 13.

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10-1 **To prevent tampering with the pitch and roll adjustments**: Tighten the two tamper resistant security screws on the projector mount assembly using 4 mm security allen wrench (**I**) to lock the pitch and roll adjustments as shown below.

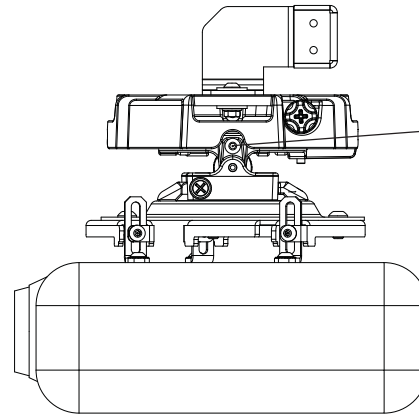**Note:** Tighten screws firmly, but do not overtighten. Overtightening can damage the mount.

CAUTION

- Do not adjust pitch or roll while tamper resistant security screws are fully engaged.
- Loosen the two tamper resistant security screws one complete turn before adjusting the projector mount assembly or damage may occur.
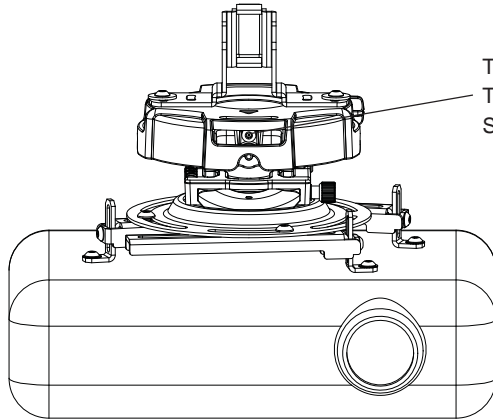
TO LOCK ROLL TIGHTEN
TAMPER RESISTANT
SECURITY SCREW

TO LOCK PITCH
TIGHTEN
TAMPER RESISTANT
SECURITY SCREW

FRONT VIEW

SIDE VIEW

Adjusting Mount Extension

11 While supporting the weight of the projector, loosen clamp plate screws half a turn and position projector to the desired extended position. Retighten clamp plate screws securely.

⚠ WARNING

- On ceiling installations, clamp plate adjustment screws support weight of projector when fully tightened. Weight of the projector will need to be supported if clamp plate screws are loosened.

CEILING INSTALLATION

CLAMP PLATE
SCREWS

DD

WALL INSTALLATION
(EXCEPT FOR EXC MODELS)

CLAMP PLATE
SCREWS

DD
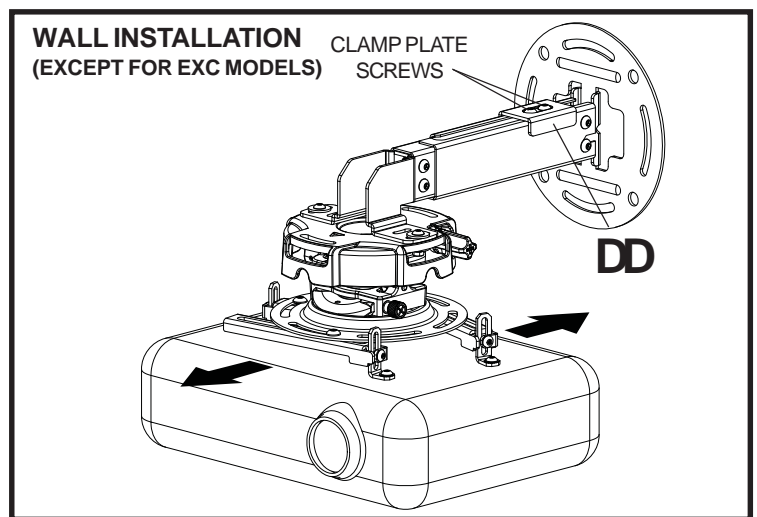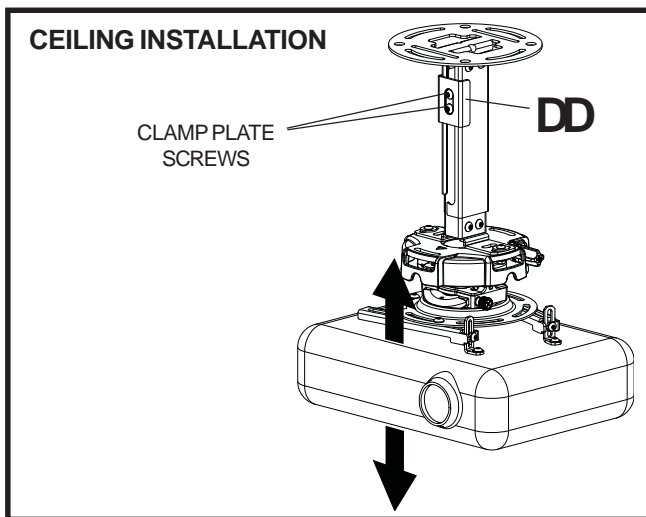
Install Cable Covers

12 Cut cable covers (**LL**) to the length of inner channel (**CC**) and outer channel (**BB**) openings, leaving space for cables if routed through channels. Snap cable covers (**LL**) into openings as shown.

CEILING INSTALLATION

LL
CUT TO
LENGTH OF
OPENING

LL
CUT TO
LENGTH OF
OPENING

BB

CC

CABLES

WALL INSTALLATION
(EXCEPT FOR EXC MODELS)

LL
CUT TO
LENGTH OF
OPENING

BB

CC

LL
CUT TO
LENGTH OF
OPENING

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