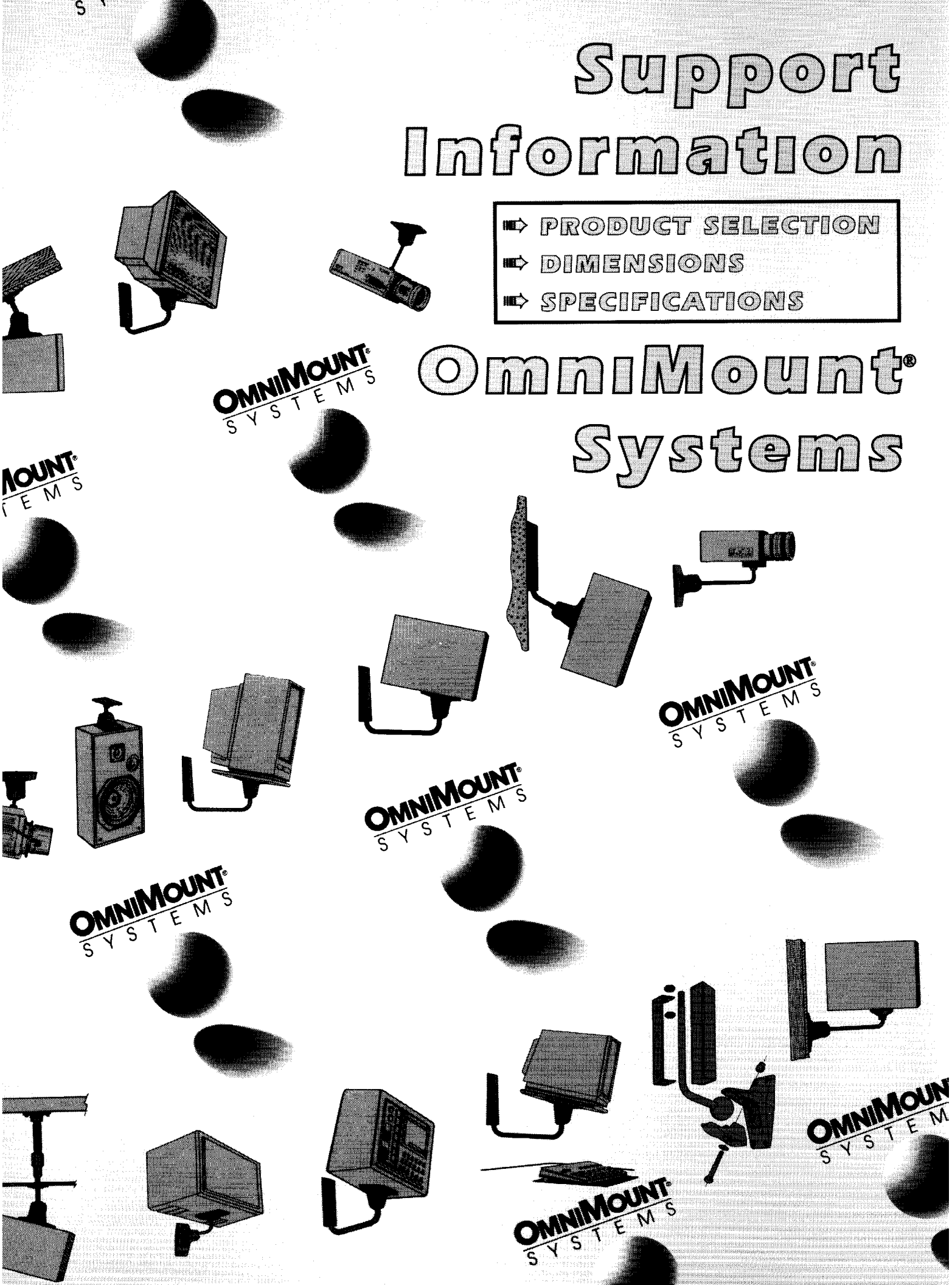
Support Information

- PRODUCT SELECTION
- DIMENSIONS
- SPECIFICATIONS

OmniMount® Systems



First, some general things for you to know...

..About the object you're mounting

"OmniMount Prepped" refers to objects that retrofit directly to OmniMount products. These objects contain factory installed threaded inserts, engineered and designed in by the manufacturer. The inserts are intended to provide safe support when the object is mounted. Many loudspeakers have them, as do most security cameras.

If no factory inserts have been provided, then it is **you** who will have to evaluate the strength of the object and the integrity of the materials it's made of. The construction of the object must be **at least** sturdy enough to support its own weight over time, especially at the point of attachment to the OmniMount assembly.

...And what you're mounting onto

Careful evaluation must be made of the surfaces you will be mounting onto. Adequate strength, composition, and construction of these surfaces is obviously crucial to a safe and secure installation.

Specify and use the appropriate interfacing hardware. Select the right type, size and combination of fasteners to support the load safely. Consider carefully and plan for all installation conditions and variables.

"How much does it weigh?" This is probably the first question that comes to mind when deciding to mount something on the wall or the ceiling.

But mounting any object safely and properly also requires careful consideration of the object's overall size (height x width x depth), it's center of gravity, distribution of load, and whether or not dynamic loading will be acting upon it.

Static/Stationary load — vs. — Active/Potential Dynamic load

An OmniMount assembly attached to a solid wall, where no external motion forces are at play, is an example of a static/stationary load installation.

An OmniMount assembly attached to a surface inside a moving vehicle subjects the mounted object to an **active** dynamic load situation. As an example of a **potential** dynamic load installation, consider a ball thrown astray in a sports venue and how it could impact a mounted object.

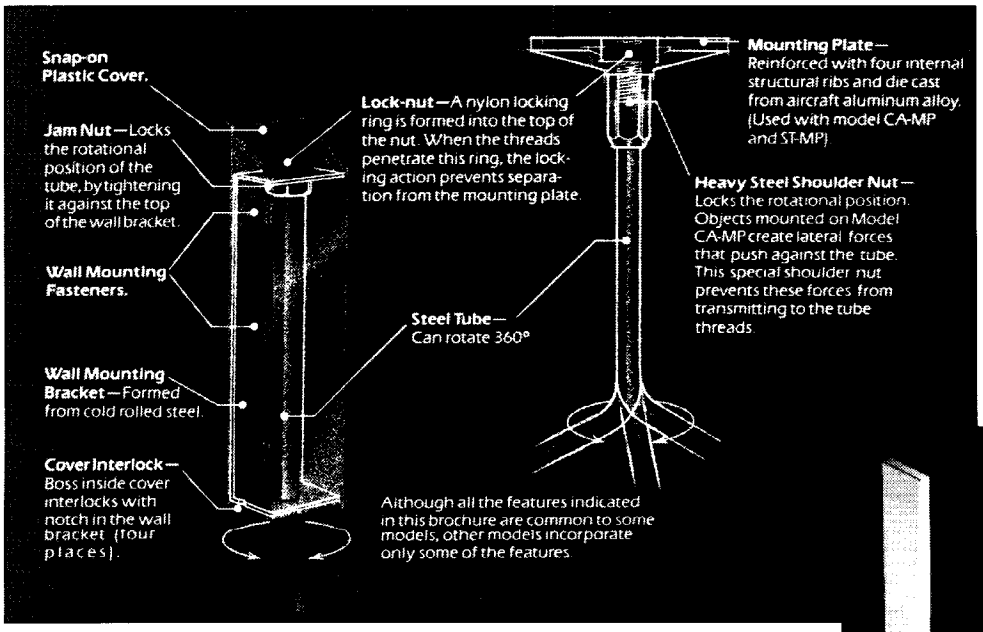
The best way to compensate for dynamic loading is to choose an OmniMount assembly capable of supporting **greater** weight than the object itself. This usually means choosing the same model, but within the next higher series.

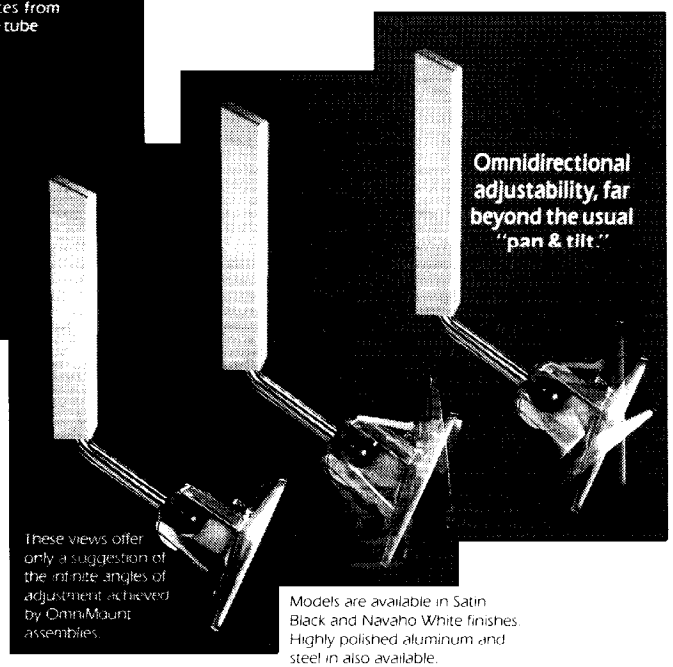
For product selection you'll need to know three basic things...

1. **The Location of the Mounting Surfaces:** That is, on the wall, ceiling, floor, deck, or other place. And where, on the object itself, the OmniMount assembly will be secured—on the top, on the back, on the bottom, or on the side.
2. **The Weight of the Object to be Mounted:** Use the weight chart below as a guide.
3. **The Overall Dimensions of the Object**: The height, width, and depth of it. This information is required to choose accurately the OmniMount model that will best fit the object you are mounting and best fit in the space available for it. The full sweep of the chart gives you dimensional information for both the complete models and their component parts.

Objects to be Mounted can Weigh Up to:			
8Lbs. 3.6KG	for the	**25 Series**	models
15 Lbs. 6.8KG	for the	**50/53 Series**	models
25Lbs. 11.3KG	for the	**75 Series**	models
55Lbs. 24.9KG	for the	**100 Series**	models
120Lbs. 54.4KG	for the	**300 Series**	models
225Lbs. 102.1KG	for the	**500 Series**	models

Combine good judgement with a common sense knowledge of the physical laws that affect balance and stability, and you'll choose the best OmniMount product to do the job.



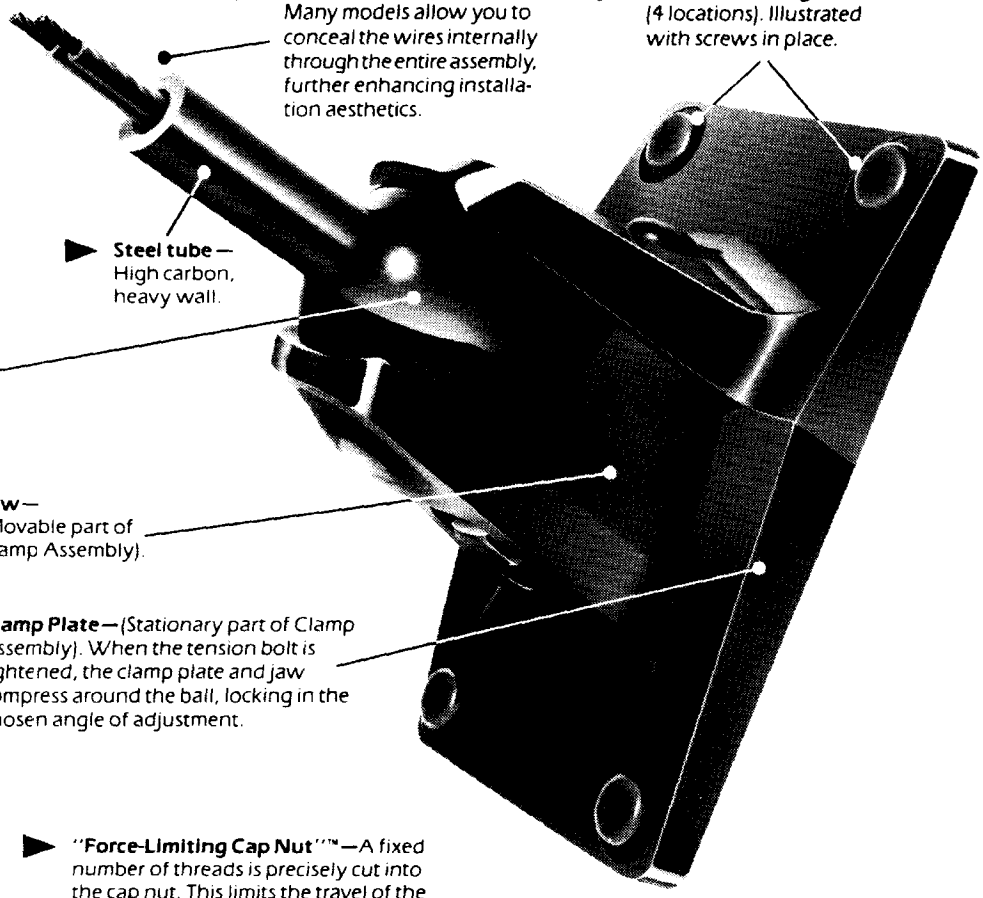


Models are available in Satin Black and Navaho White finishes. Highly polished aluminum and steel in also available.

Architectural & Engineering Specifications

Where "Universal Mounting Assemblies" are indicated in contract documents, they shall be "as manufactured by OmniMount Systems." Mounts shall have a carbon steel or stainless steel ballshaft, with a polymer ball permanently bonded to one end. Clamp Assemblies and Mounting Plates shall be of aircraft grade aluminum alloy, with remaining structural components fabricated of cold-rolled steel. Fasteners used for assembly shall be of hardened steel—certain cosmetic parts shall be of injection molded plastic. Fastening hardware selected for mounting surfaces shall be of a proper size and type to support loads safely—as detailed in OmniMount Systems' product data and installation instructions, Fastening hardware shall be finished as necessary to match mounting assemblies.

What it's made of and How it works . . .



Invisible Wiring Feature—*Many models allow you to conceal the wires internally through the entire assembly, further enhancing installation aesthetics.*

Screw Mounting Holes—*(4 locations). Illustrated with screws in place.*

Steel tube—High carbon, heavy wall.

Polymer Ball—*This is the "heart" of the OmniMount System. A lot of R&D has gone into this proprietary compound. Extremely high tensile strength and unique compression-set are among its secrets.*

Jaw—(Movable part of Clamp Assembly).

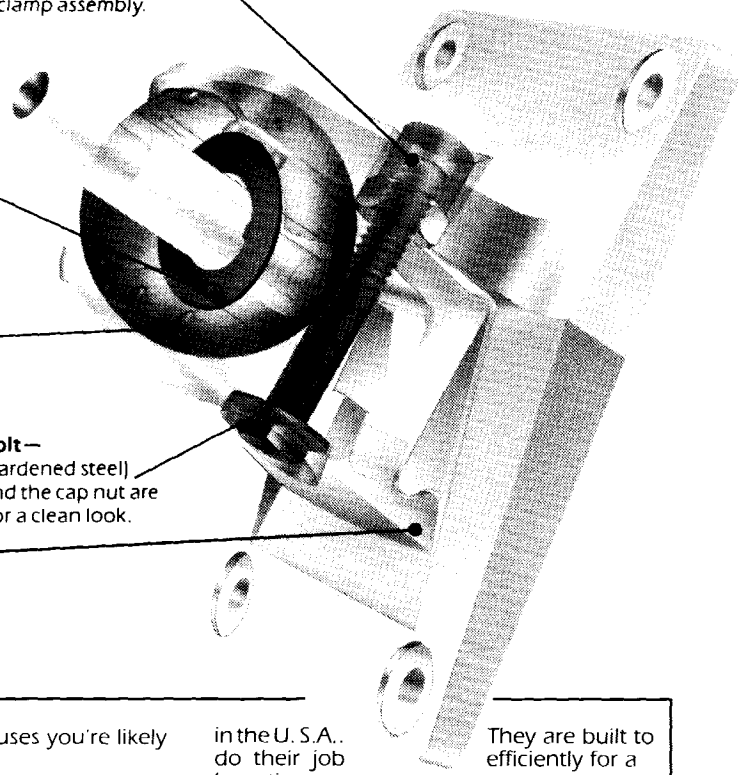
Clamp Assembly—(Made of die cast aluminum aircraft alloy)—is comprised of the clamp plate and jaw.

Clamp Plate—*(Stationary part of Clamp Assembly). When the tension bolt is tightened, the clamp plate and jaw compress around the ball, locking in the chosen angle of adjustment.*

"Force-Limiting Cap Nut"™—*A fixed number of threads is precisely cut into the cap nut. This limits the travel of the tension bolt and helps prevent over-tightening of the clamp assembly.*

Steel "Capture Ring,"™—The ring is electro-welded to the tube at an eccentric angle. The ring and tube-end is then immersed in a thermally reactive chemical adhesive.

When molded, the ball is mechanically captured by the welded ring and bonded by the adhesive. This "triple positive lock" (thermal, chemical and mechanical) ensures that the ball cannot separate from the tube.



Spherical cavities—Designed into the clamp assembly, the cavities have internal "teeth" that bite into ball during the tightening process. This helps hold the object at the chosen angle of adjustment.

Tension Bolt—(Grade 8 hardened steel) this bolt and the cap nut are recessed for a clean look.

The Fulcrum—*A precise range of movement is designed into this pivot point: It allows the jaw to be opened just wide enough to remove—and later replace the ball during installation. It also distributes the substantial compressive forces generated when the mounted object is locked into position.*

For Your Information...

OmniMount Systems have been specified and installed both safely and productively for many years. With the extraordinarily varied applications and installation advantages of OmniMount products, it is important to become fully aware of the guidelines and specifications we have set forth here. The more familiar you become with OmniMount assemblies, the more time-saving uses you're likely to find for them.

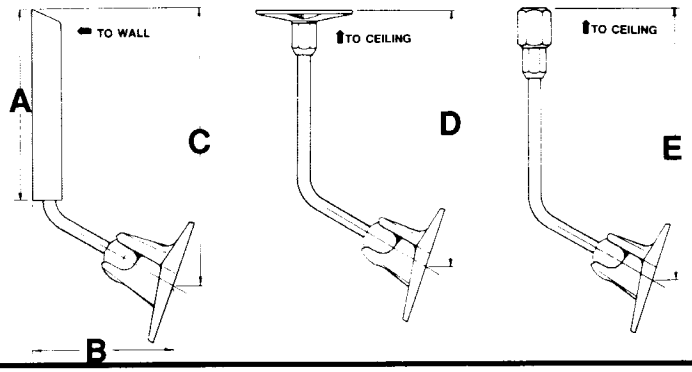
The patented OmniMount Systems ball and clamp assembly works with a variety of ball shaft lengths and bend configurations, wall brackets, mounting plates, plumbing pipe, all-thread rod adapters and accessories—all in very many sizes and load handling capabilities.

OmniMount products are carefully engineered and quality manufactured in the U. S.A.. They are built to do their job efficiently for a long time.

OmniMount assemblies are of industrial quality, but they're not industrial looking. Functional design makes for special good looks, creating a clean uncluttered installation. Specifying OmniMount products eliminates the need for welding or custom fabricating expensive brackets. And you'll no longer have to settle for unsightly and time-consuming "nuts & bolts" alternatives.

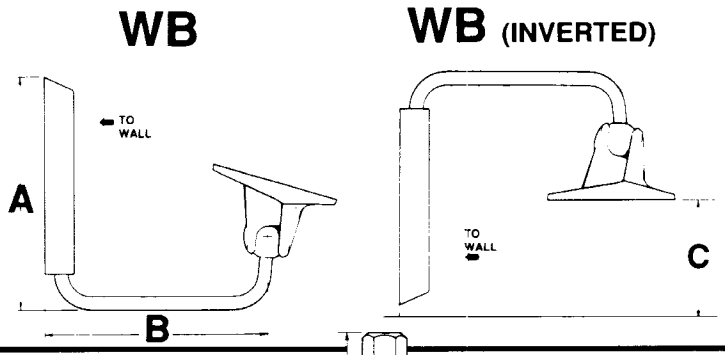
DIMENSIONS FOR COMPLETE MODELS

WA, CA, CA-PA



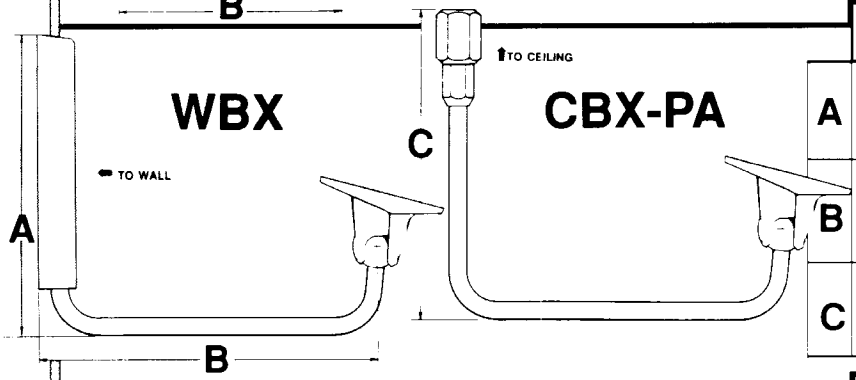
	50 SERIES	75 SERIES	100 SERIES	300 SERIES
A	6 1/4 158.8	6 1/4 158.8	9 1/4 235.0	12i 315.9
B	4 5/8 117.5	5 3/8 136.5	6 7/8 174.6	9 1/2 241.3
C	9 1/2 241.3	10 254.0	14 355.6	19 482.6
D	9 228.6	10 1/4 260.4	13 1/8 333.4	18 1/4 463.6
E	10 254.0	11 1/4 287.8	14 3/8 365.1	19 1/2 495.3

WB, WB (INVERTED)



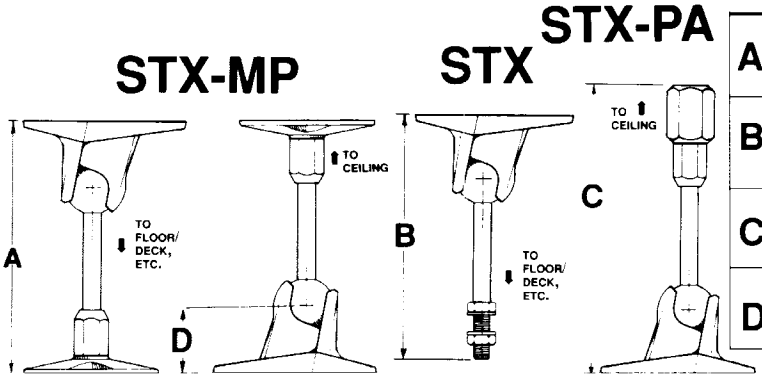
	25 SERIES	50 SERIES	75 SERIES	100 SERIES	300 SERIES	500 SERIES
A		7 3/8 187.3	8 1/8 206.4	11 279.4	14 3/4 347.7	
B		7 177.8	9 3/4 247.7	10 3/4 273.1	15 3/8 390.5	14 1/2 368.3
C		3 1/8 79.4	3 1/8 79.4	4 7/8 123.8	6 152.4	

WBX, CBX-PA



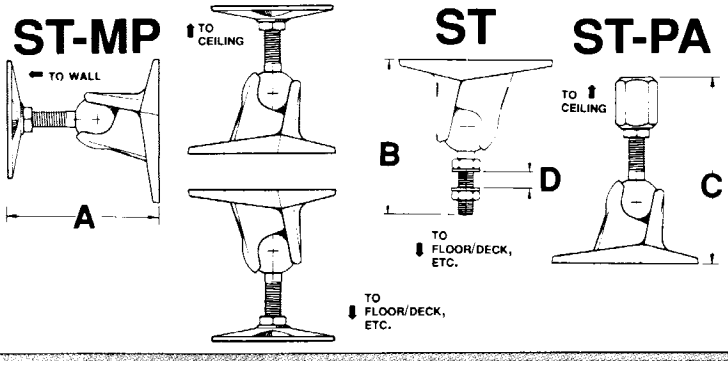
	25 SERIES	50 SERIES	75 SERIES	100 SERIES	300 SERIES	500 SERIES
A	7 1/4 184.2		14 355.6	14 355.6	14 3/4 374.7	20 3/8 517.5
B	7 1/4 184.2		14 3/4 374.7	18 457.2	18 5/8 473.1	24 609.6
C	7 7/8 200.0				15 3/8 390.5	22 558.8

STX-MP, STX, STX-PA



	25 SERIES	50 SERIES	75 SERIES	100 SERIES	300 SERIES	500 SERIES
A	4 1/8 104.8	6 5/8 168.3	7 1/8 181.0	9 1/2 241.3	12 1/2 317.5	16 406.4
B	4 1/8 104.8	6 1/2 165.1	7 177.8	9 3/8 238.1	12 1/2 317.5	15 381
C	4 3/4 120.7	7 1/2 190.5	8 1/4 209.6	10 1/2 266.7	13 3/4 349.3	16 7/8 428.6
D	1 3/16 30.2	1 3/4 44.5	2 1/16 52.4	2 5/8 66.7	3 7/16 88.9	4 1/4 111.1

ST-MP, ST, ST-PA



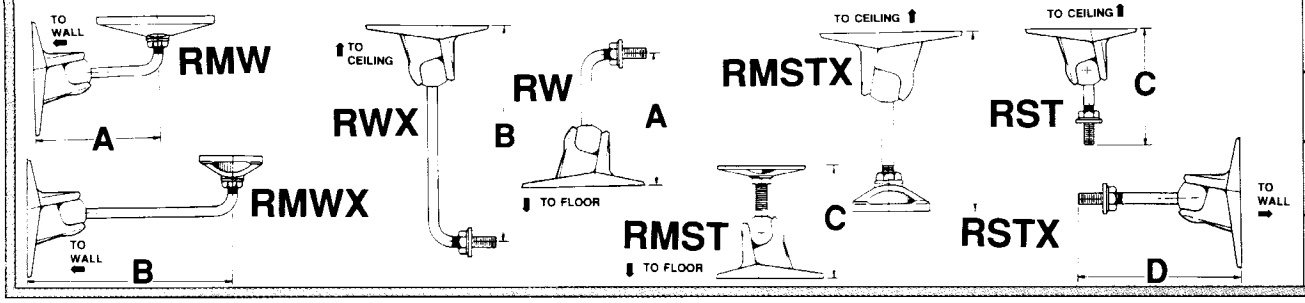
	25 SERIES	50 SERIES	75 SERIES	100 SERIES	300 SERIES	500 SERIES
A	3 76.2	3 7/8 98.4	4 5/8 117.5	6 1/8 155.8	7 177.8	11 1/4 285.8
B	2 7/8 73.0	3 7/8 98.4	4 1/2 114.3	6 152.4	7 177.8	10 3/8 263.5
C		4 3/4 120.7	5 3/4 146.1	7 1/4 184.2	8 1/4 209.6	12 304.8
D		1/2 12.7	1/2 12.7	1/2 12.7	3/4 19.1	1 25.4

REVERSE MOUNT MODELS

FOR OBJECTS WITH FACTORY INSTALLED THREADED INSERTS

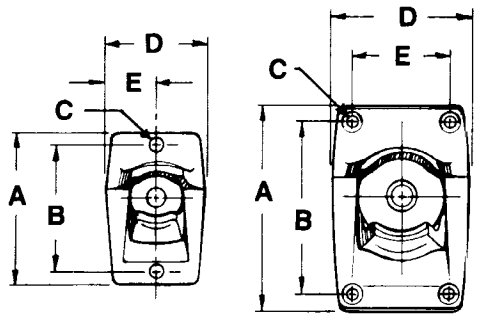
$\frac{1}{4}$-20 IS STANDARD - 25 SERIES
$\frac{3}{8}$-16 IS STANDARD - 53 SERIES

(OTHER THREADS INCLUDING METRIC ARE AVAILABLE)



	25 SERIES	53 SERIES
A	3 76.2	$4\frac{1}{2}$ 114.3
B	$4\frac{3}{4}$ 120.7	$7\frac{1}{2}$ 190.5
C	$2\frac{7}{8}$ 73.0	4 101.6
D	$4\frac{1}{8}$ 104.8	$6\frac{7}{8}$ 174.6

CLAMP ASSEMBLY



25 (2 HOLE)				
A	B	C	D	E
$2\frac{13}{16}$ 71.4	$2\frac{3}{8}$ 60.3	$\frac{1}{4}$ 6.4	$1\frac{5}{8}$ 41.3	$\frac{13}{16}$ 20.6

50 (2 HOLE)				
A	B	C	D	E
$3\frac{5}{8}$ 92.0	3 76.2	$\frac{1}{4}$ 6.4	$2\frac{3}{16}$ 55.6	$1\frac{3}{32}$ 27.8

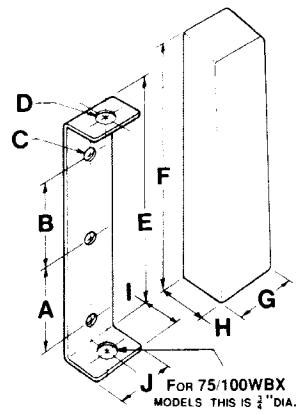
75 (4 HOLE)				
A	B	C	D	E
$4\frac{7}{8}$ 123.8	$4\frac{1}{4}$ 107.9	$\frac{1}{4}$ 6.4	$2\frac{15}{16}$ 74.6	2 50.8

100 (4 HOLE)				
A	B	C	D	E
6 152.4	5 127.0	$\frac{5}{16}$ 7.9	4 101.6	$2\frac{3}{4}$ 69.9

300 (4 HOLE)				
A	B	C	D	E
8 203.2	$6\frac{7}{8}$ 174.6	$\frac{3}{8}$ 9.5	5 127.0	$3\frac{7}{16}$ 87.3

500 (4 HOLE)				
A	B	C	D	E
$10\frac{3}{4}$ 273.1	$9\frac{1}{2}$ 241.3	$\frac{1}{2}$ 12.7	7 177.8	5 127.0

WALL BRACKETS/COVERS



NOTE:
For 75/100 WBX Wall Bracket All dimensions (exept "D") are the same as indicated for the 300 series wall bracket.

50-75

A	B	C	D	E
$2\frac{1}{8}$ 53.9	2 50.8	$\frac{5}{16}$ 7.9	$\frac{7}{16}$ / $\frac{1}{2}$ [illegible]	$5\frac{7}{16}$ 138.1

F	G	H	I	J
$6\frac{3}{16}$ 157.2	$1\frac{13}{16}$ 46.0	$1\frac{1}{3}$ 28.6	$1\frac{1}{16}$ 27.0	$1\frac{5}{8}$ 41.3

100

A	B	C	D	E
$3\frac{5}{16}$ 84.1	3 76.2	$\frac{3}{8}$ 9.5	$\frac{5}{8}$ 15.9	$8\frac{1}{4}$ 209.6

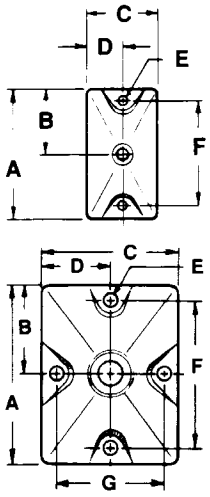
F	G	H	I	J
$9\frac{1}{4}$ 235.0	$2\frac{1}{8}$ 54.0	$1\frac{3}{8}$ 34.9	$1\frac{1}{4}$ 31.8	2 50.8

300

A	B	C	D	E
$4\frac{11}{16}$ 119.1	$4\frac{9}{16}$ 115.9	$\frac{3}{8}$ 9.5	1 25.4	$11\frac{1}{4}$ 285.8

F	G	H	I	J
$12\frac{7}{16}$ 315.9	$2\frac{1}{8}$ 54.0	$2\frac{1}{4}$ 57.2	$2\frac{1}{8}$ 54.0	2 50.8

MOUNTING PLATES (MP)



NOTE:
Mounting plate for 500 series is designed differently from examples shown.

25

A	B	C	D	E	F	G
$2\frac{7}{8}$ 73.0	$1\frac{7}{16}$ 36.5	$1\frac{1}{2}$ 38.1	$\frac{3}{4}$ 19.1	$\frac{1}{4}$ 6.4	$2\frac{3}{8}$ 60.3	

50

A	B	C	D	E	F	G
$3\frac{3}{16}$ 81.0	$1\frac{19}{32}$ 40.5	$2\frac{1}{4}$ 57.2	$1\frac{1}{8}$ 28.6	$\frac{1}{4}$ 6.4	$2\frac{9}{16}$ 65.1	

75-100

A	B	C	D	E	F	G
$4\frac{1}{4}$ 108.0	$2\frac{1}{8}$ 54.0	$3\frac{5}{16}$ 84.1	$1\frac{5}{8}$ 41.3	$\frac{5}{16}$ / $\frac{3}{8}$ 7.9/9.5	$3\frac{1}{2}$ 88.9	$2\frac{5}{8}$ 66.7

300

A	B	C	D	E	F	G
$6\frac{7}{8}$ 174.6	$3\frac{7}{16}$ 87.3	$4\frac{7}{8}$ 123.8	$2\frac{7}{16}$ 61.9	$\frac{3}{8}$ 9.5	$5\frac{3}{4}$ 146.1	4 101.6

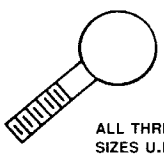
500 - NOTE

Mounting plate for 500 series is designed differently from examples shown

A	B	C	D	E	F	G
12 304.8		12 304.8				

BALLSHAFT THREAD SPECIFICATIONS

25 SERIES	50 SERIES	75 SERIES	100 SERIES	300 SERIES	500 SERIES
$\frac{1}{4}$-20	$\frac{7}{16}$ – 20 53 SERIES $\frac{3}{8}$ – 16	$\frac{1}{2}$-20	$\frac{5}{8}$-18	1-14	$1\frac{1}{2}$-12



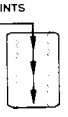
ALL THREAD SIZES U.N.F.

EXCEPTIONS AND VARIATIONS

25WBX/CBX - $\frac{7}{16}$ – 20 THREAD
75WBX/CBX - $\frac{3}{4}$ – 16 THREAD
100WBX/CX - $\frac{3}{4}$ – 16 THREAD
ALL 50 SERIES REVERSE MOUNT MODELS - $\frac{3}{8}$ – 16 THREAD

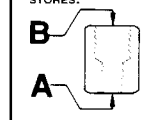
TA THREADED ADAPTERS

- EXTENDS BALL-SHAFT LENGTH USING ALLTHREAD" ROD
- JOIN ST STX MODELS TO CREATE TWO PIVOT POINTS



PA PLUMBING PIPE ADAPTERS

- EXTENDS BALL-SHAFT LENGTH USING STANDARD PIPE AVAILABLE AT HARDWARE OR PLUMBING SUPPLY STORES.



	25 SERIES	50 SERIES	75 SERIES	100 SERIES	300 SERIES	500 SERIES
A	$\frac{1}{4}$-20	$\frac{7}{16}$-20	$\frac{1}{2}$-20	$\frac{5}{8}$-18	1-14	$1\frac{1}{2}$-12
B		$\frac{1}{2}$"	$\frac{3}{4}$"	$\frac{3}{4}$"	$1\frac{1}{2}$"	2"

EXCEPTIONS AND VARIATIONS (WBX/CBX MODELS)

25WBX/CBX - Use 50TA/50PA adapters
PA adapters not available for other 25 series models.
75WBX/CBX and 100WBX/CBX - Require $\frac{3}{4}$-16 TA adapter —available from others but not from OmniMount Systems.
PA adapters not available for these models.

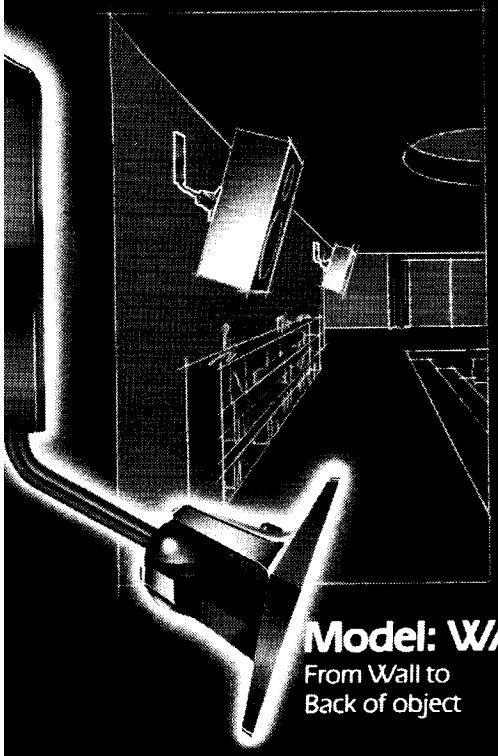
SPECIAL ADAPTERS:

Microphone Stand: $\frac{5}{8}$-27 female thread adapts 25 Series and 50 Series models only.
Tubular Tripod Stand: Two sizes available - $1\frac{3}{8}$ diameter and $1\frac{1}{2}$ diameter For use with models 100ST and 100STX only.
"C" Clamp: Adapter is for use with "C" clamp of the type used for theatrical lighting fixtures—must have either a $\frac{1}{2}$-13 *stud or through-hole access for a* $\frac{1}{2}$" diameter bolt. Available for 100 Series models only.
"T" Bar Ceiling Adapters: For mounting objects on acoustic tile suspended ceilings.

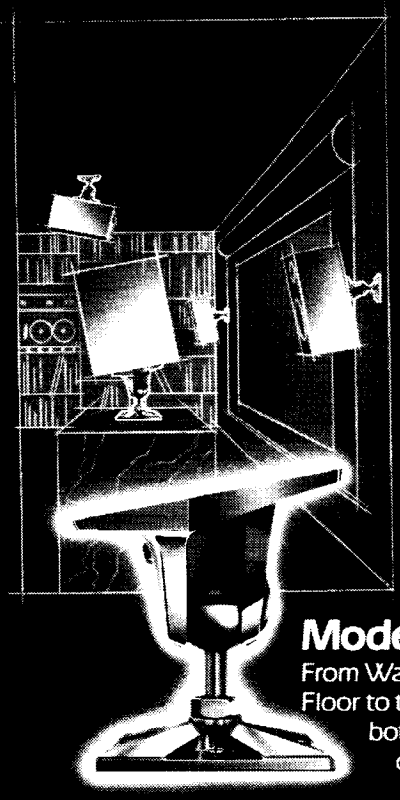
MANY SPECIAL ACCESSORIES ARE AVAILABLE SUCH AS:

Quick-release handles (25 and 50 series only); Pole mount adapters; Safety cables; Vibration isolators; Shelving kits and strut member kits that allow load distribution across three wall studs (300 and 500 series models only). Contact your sales representative of OmniMount Systems directly for more information.

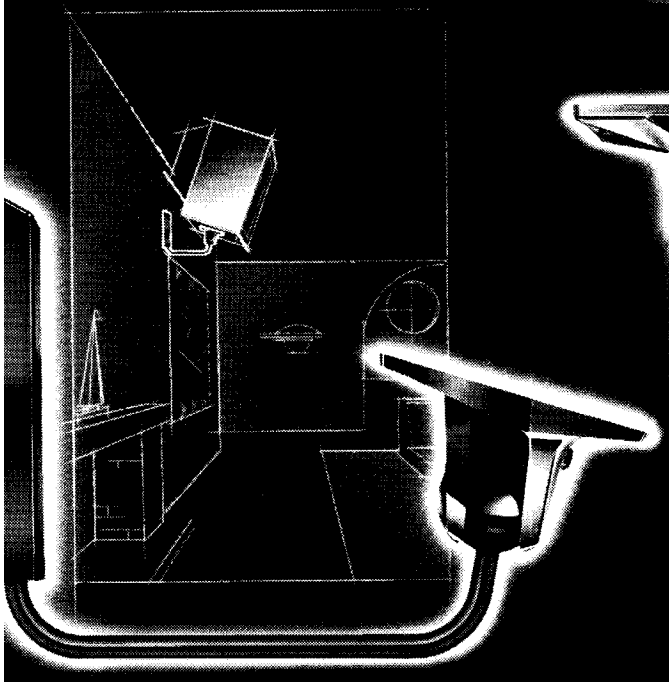
The Plumbing Pipe Connection



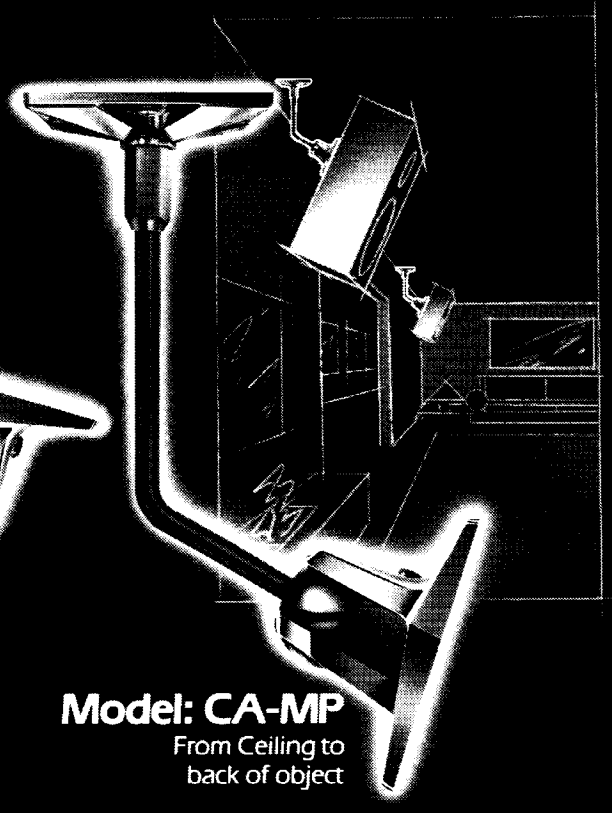
Model: WA
From Wall to Back of object



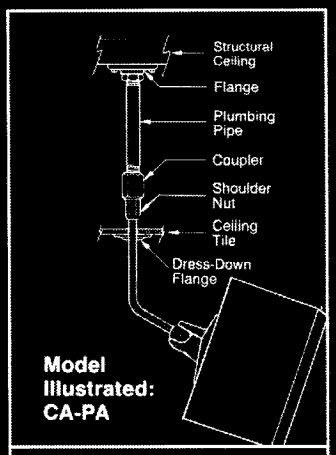
Model: ST-MP
From Wall, Ceiling or Floor to top, back, bottom or sides of object



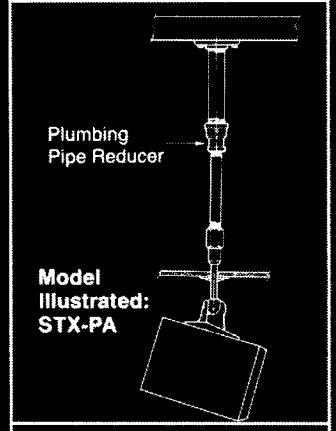
Model: WB
From Wall to bottom of object



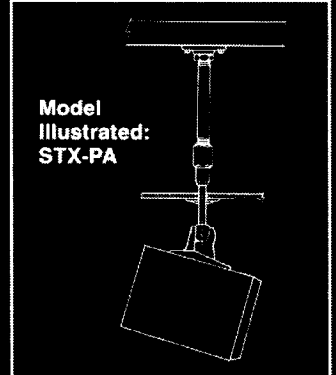
Model: CA-MP
From Ceiling to back of object



Model Illustrated: CA-PA



Model Illustrated: STX-PA



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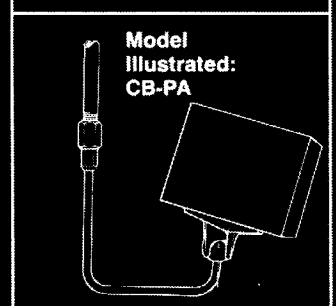

Model Illustrated: CB-PA

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