INSTALLATION INSTRUCTIONS
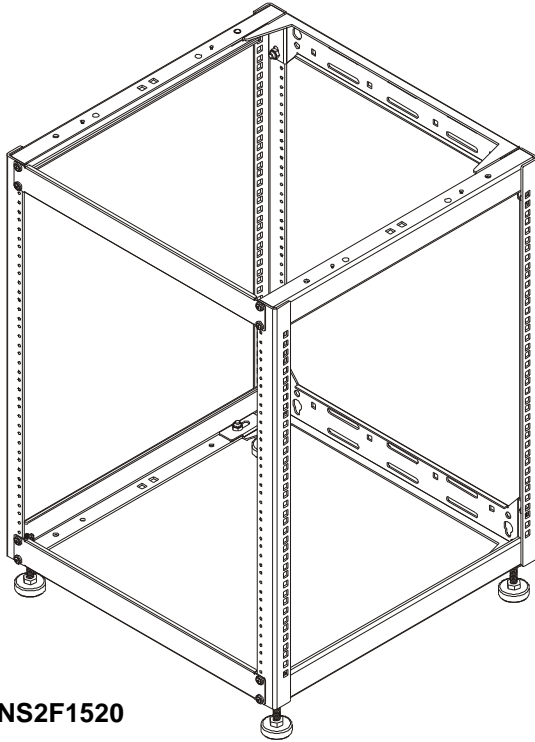
NS2F1520
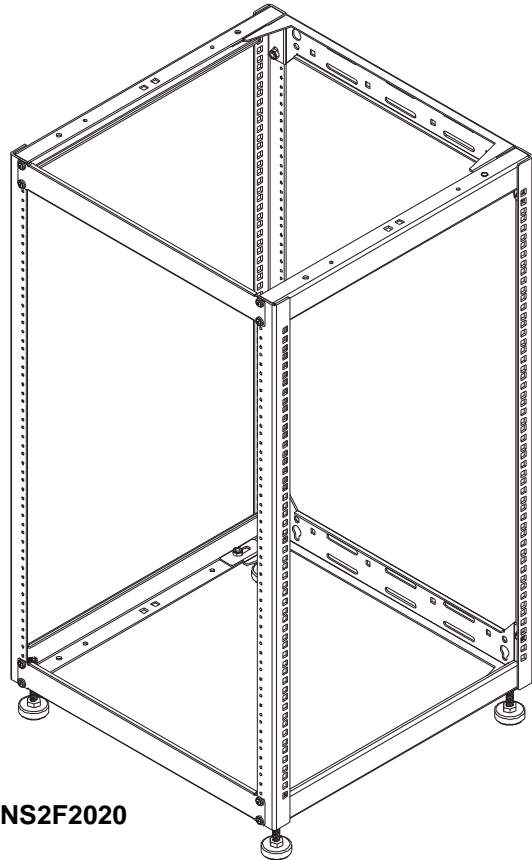
NS2F2020

Stackable Racks

⊚CHIEF®

Our Mounts. **Your Vision.**

NS2F1520-2020

DISCLAIMER

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⚠ IMPORTANT SAFETY INSTRUCTIONS

⚠ **WARNING:** A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

⚠ **CAUTION:** A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

⚠ **WARNING:** Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer's responsibility to make sure all components are properly assembled and installed using the instructions provided.

⚠ **WARNING:** Failure to provide adequate structural strength for this component can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this component is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the component.

⚠ **WARNING:** Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components located within the rack does not exceed 600 lbs (272 kg) if rack is free-standing or stacked or 200 lbs (90.7 kg) if mounted to a wall. Use with products heavier than the maximum weight indicated may result in instability or collapse of the rack causing possible injury.

⚠ **WARNING:** Do NOT stack more than two rack assemblies on top of each other.

⚠ **CAUTION:** If free standing, always load the rack from the bottom up and load the heaviest item in the rack first to prevent tipping. If mounted to a wall, weight can be distributed as desired.

⚠ **CAUTION:** If free standing, 50% of the total weight should be mounted in the lower third of the rack.

IMPORTANT ! : Minimum spacings between the Accessories and components and the (ITC/AV) Rack Enclosure shall be maintained for safe operation of the equipment when installed in accordance with the National Electric Code, ANSI/NFPA 70-2008. Operating temperature inside rack shall not exceed 104°F.

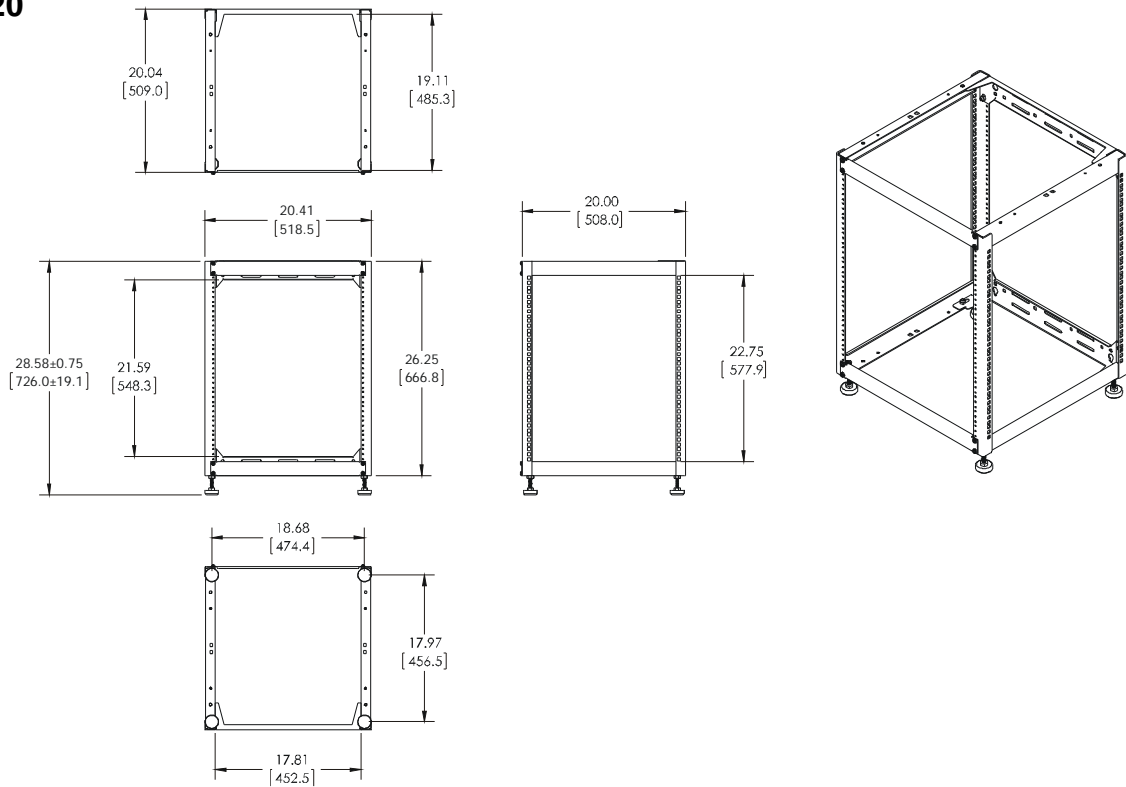⚠ **WARNING:** Do not use this product outdoors.

⚠ **WARNING:** RISK OF INJURY TO PERSONS! Do not use this mounting system to support video equipment such as televisions or computer monitors.

IMPORTANT ! : NS2F1520-2020 racks are designed to be mounted to an 8" concrete, 8"x8"x16" concrete block, or 2" x 4" wood studs (16" on center) wall.
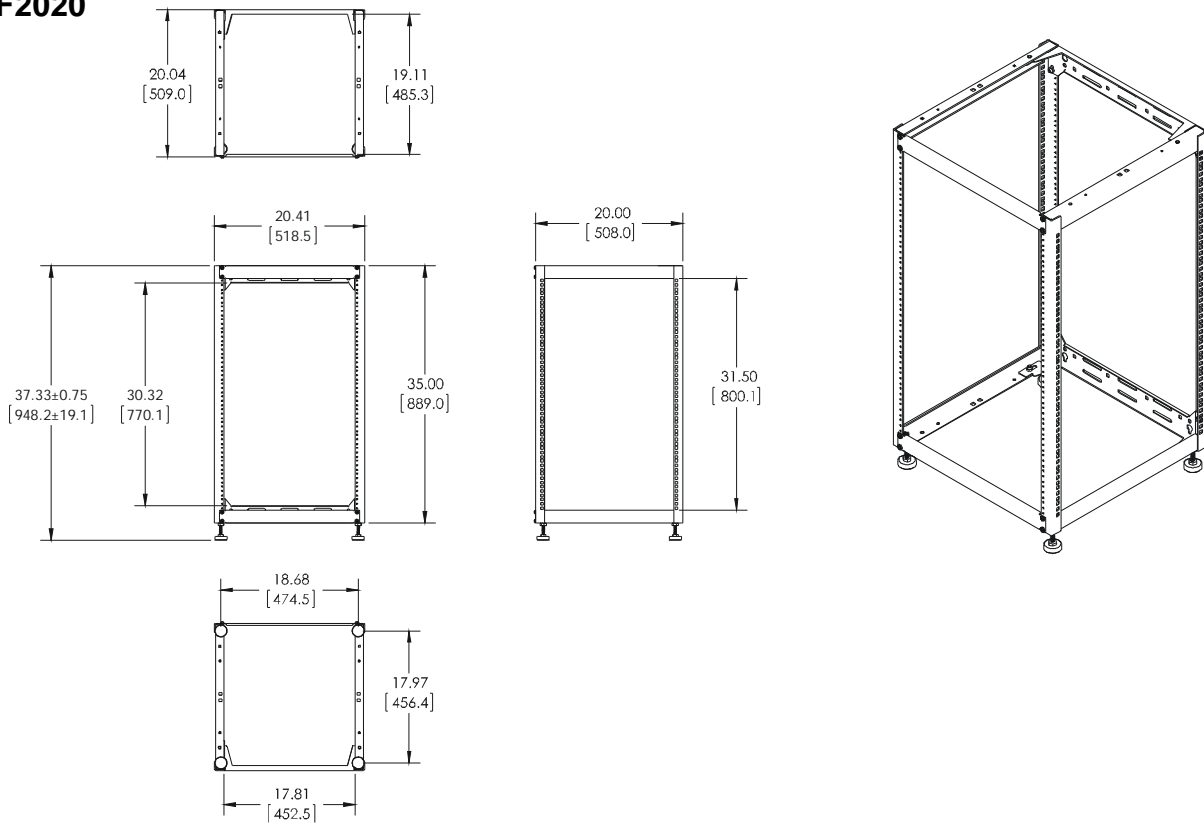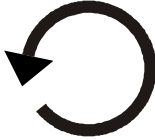
--SAVE THESE INSTRUCTIONS--

DIMENSIONS

NS2F1520

20.04 [509.0]
19.11 [485.3]

20.41 [518.5]
20.00 [508.0]

28.58±0.75 [726.0±19.1]
21.59 [548.3]
26.25 [666.8]
22.75 [577.9]

18.68 [474.4]
17.97 [456.5]
17.81 [452.5]

NS2F2020

20.04 [509.0]
19.11 [485.3]

20.41 [518.5]
20.00 [508.0]

37.33±0.75 [948.2±19.1]
30.32 [770.1]
35.00 [889.0]
31.50 [800.1]

18.68 [474.5]
17.97 [456.4]
17.81 [452.5]

LEGEND

	Tighten Fastener
	Apretar elemento de fijación
	Befestigungsteil festziehen
	Apertar fixador
	Serrare il fissaggio
	Bevestiging vastdraaien
	Serrez les fixations

	Pencil Mark
	Marcar con lápiz
	Stiftmarkierung
	Marcar com lápis
	Segno a matita
	Potloodmerkteken
	Marquage au crayon

	Loosen Fastener
	Aflojar elemento de fijación
	Befestigungsteil lösen
	Desapertar fixador
	Allentare il fissaggio
	Bevestiging losdraaien
	Desserrez les fixations

	Drill Hole
	Perforar
	Bohrloch
	Fazer furo
	Praticare un foro
	Gat boren
	Percez un trou

	Phillips Screwdriver
	Destornillador Phillips
	Kreuzschlitzschraubendreher
	Chave de fendas Phillips
	Cacciavite a stella
	Kruiskopschroevendraaier
	Tournevis à pointe cruciforme

	Adjust
	Ajustar
	Einstellen
	Ajustar
	Regolare
	Afstellen
	Ajuster

	Open-Ended Wrench
	Llave de boca
	Gabelschlüssel
	Chave de bocas
	Chiave a punte aperte
	Steeksleutel
	Clé à fourche

	Remove
	Quitar
	Entfernen
	Remover
	Rimuovere
	Verwijderen
	Retirez

	By Hand
	A mano
	Von Hand
	Com a mão
	A mano
	Met de hand
	À la main

	Optional
	Opcional
	Optional
	Opcional
	Opzionale
	Optie
	En option

	Hex-Head Wrench
	Llave de cabeza hexagonal
	Sechskantschlüssel
	Chave de cabeça sextavada
	Chiave esagonale
	Zeskantsleutel
	Clé à tête hexagonale

	Security Wrench
	Llave de seguridad
	Sicherheitsschlüssel
	Chave de segurança
	Chiave di sicurezza
	Veiligheidssleutel
	Clé de sécurité

TOOLS REQUIRED FOR INSTALLATION

1/2" (13mm)

7/32" (5.5mm)
3/8" (10mm)

1/2" (12.7mm)

#2

1 2 3 4 5

PARTS

A (1)
[Left frame]

L

B (1)
[Right frame]

R

C (2)
[Rear brace]

D (2)
[Front panel]

E (4)
[Foot]

F (12)
1/4-20

G (25)
#10-32 x 3/4"
(with washer)

H (10)
1/4-20 x 3/8"

J (2)
["U" washers]

K (2)
3/4"

L (4)
[U10 anchor]

M (4)
5/16 x 3 1/2"
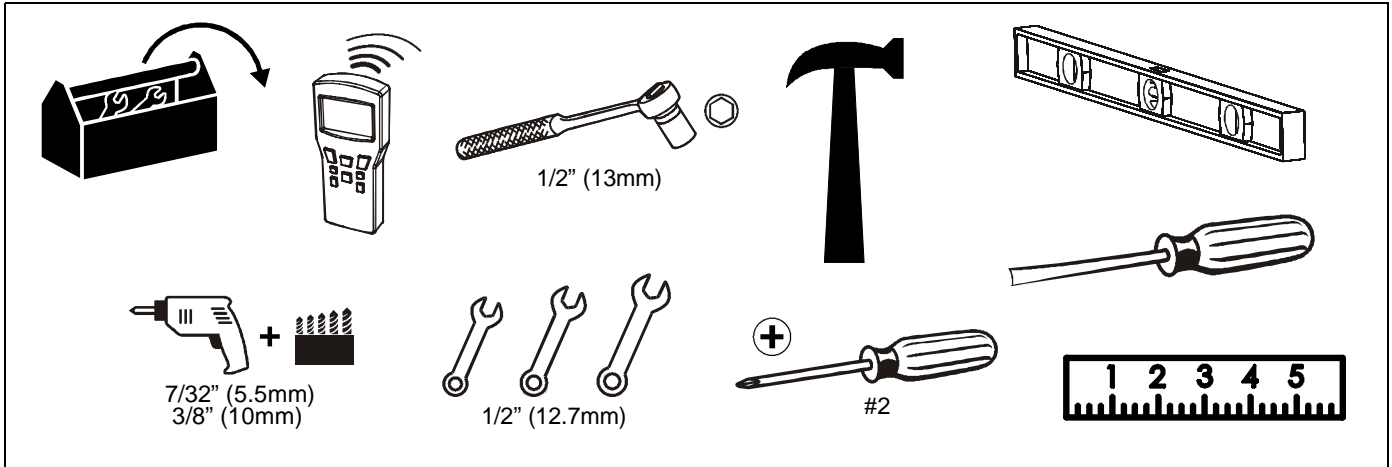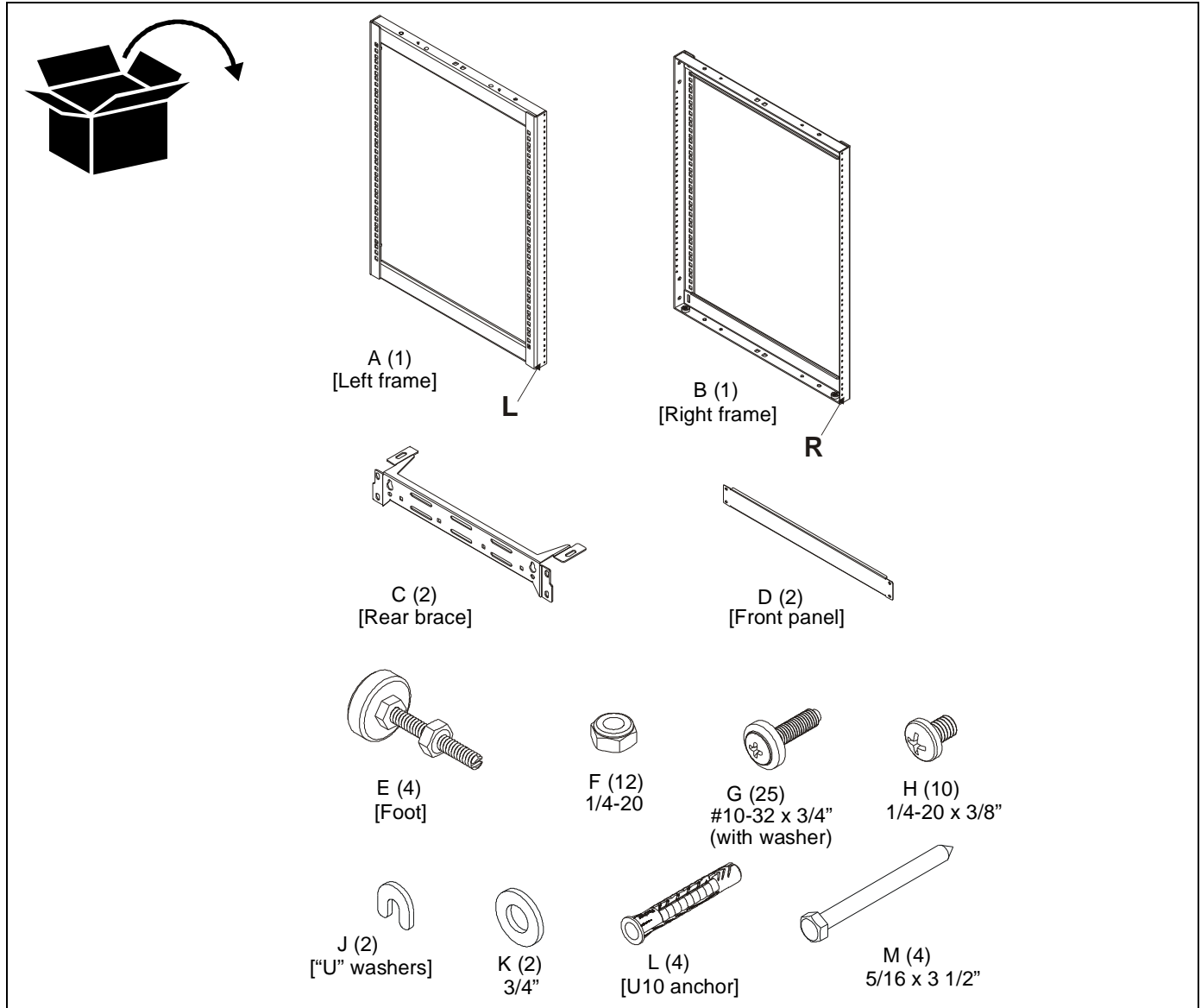
Assembly And Installation

Frame Construction

1. Position brace (C) over screw studs on left frame (A). (See Figure 1)

2. Thread two 1/4-20 hex nuts (F) over vertical screw studs to secure brace (C) to left frame (A). (See Figure 1)

3. Thread 1/4-20 hex nut (F) over horizontal screw stud to secure brace (C) to left frame (A). (See Figure 1)
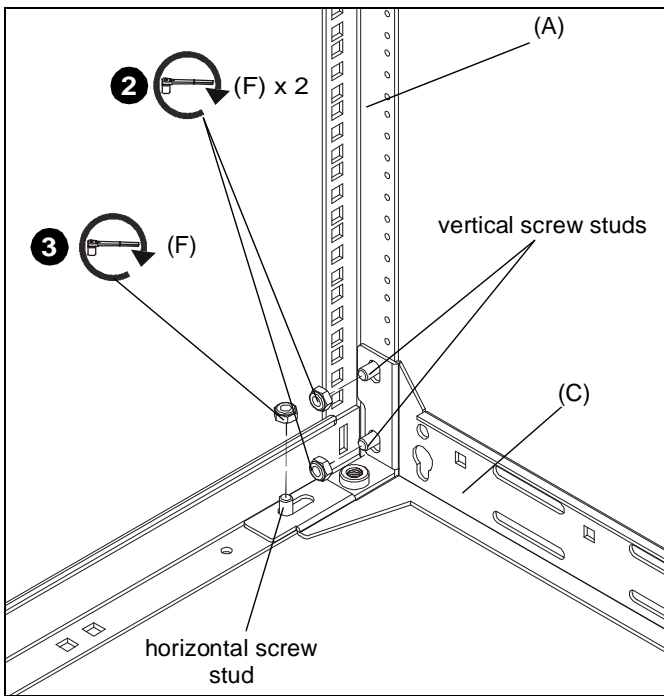
Figure 1

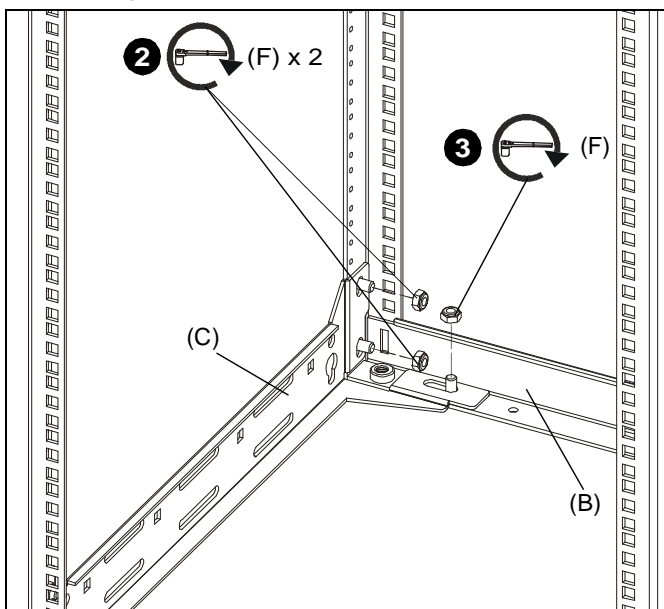4. Repeat steps 1-3 to secure right frame (B) to brace (C). (See Figure 2)

Figure 2

5. Position second brace (C) over upper screw studs on left and right frames (A and B). (See Figure 3)

6. Thread four 1/4-20 hex nuts (F) over vertical studs to secure brace (C) to left and right frames (A and B). (See Figure 3)

7. Thread two 1/4-20 hex nuts (F) over horizontal screw studs to secure brace to right and left frames (A and B). (See Figure 3)
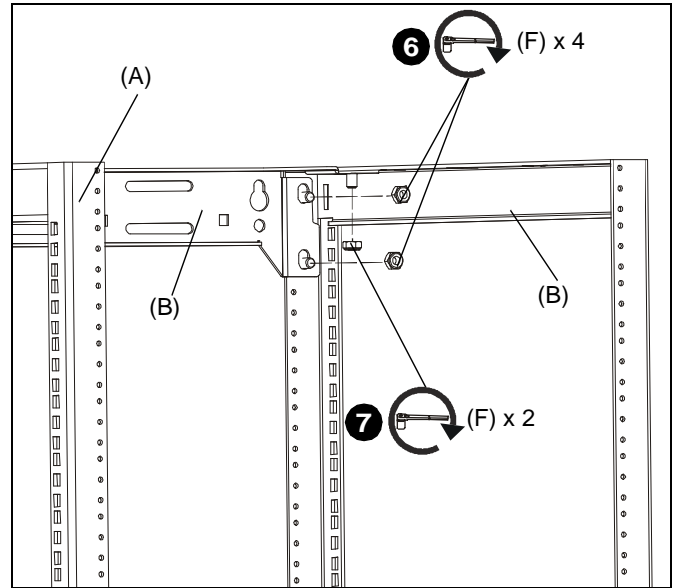

Figure 3

8. Use eight #10-32 x 3/4" Phillips machine screws (G) to secure two front panels (D) to frames (A and B). (See Figure 4)
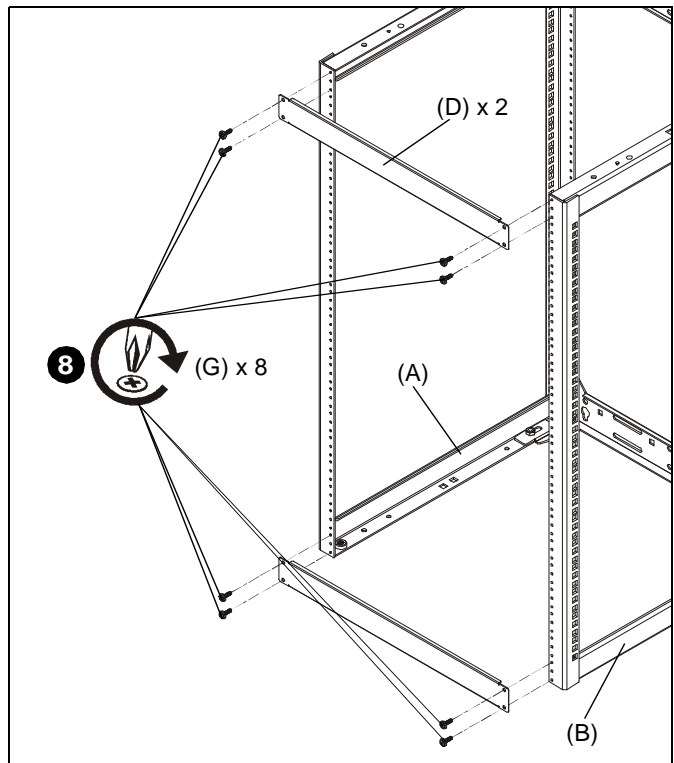

Figure 4

Install Feet (Optional)

1. Lay assembled frame on its back. (See Figure 5)

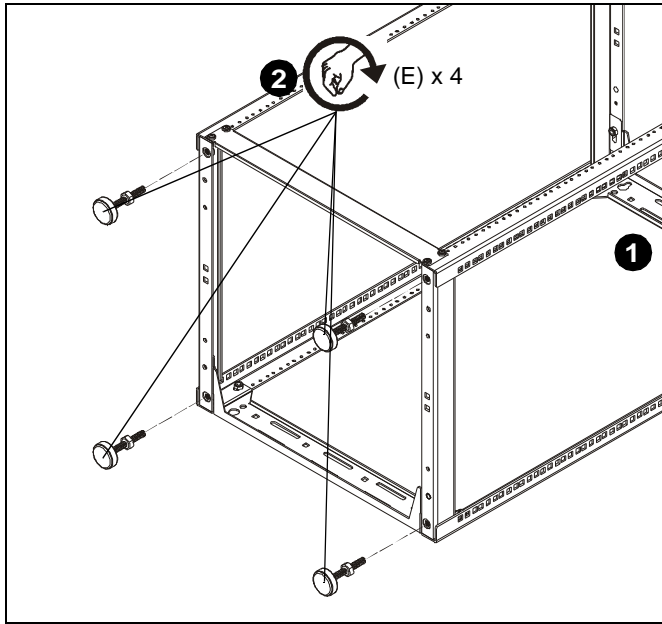2. Thread four feet (E) into holes on bottom of frames. (See Figure 5)

Figure 5

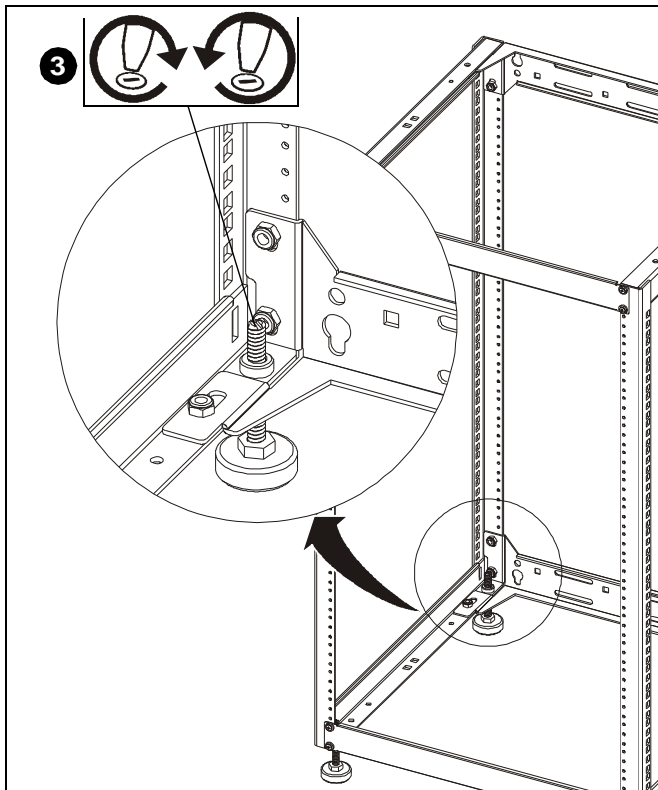3. Use a flathead screwdriver to turn each screw until rack is completely level. (See Figure 6)

Figure 6

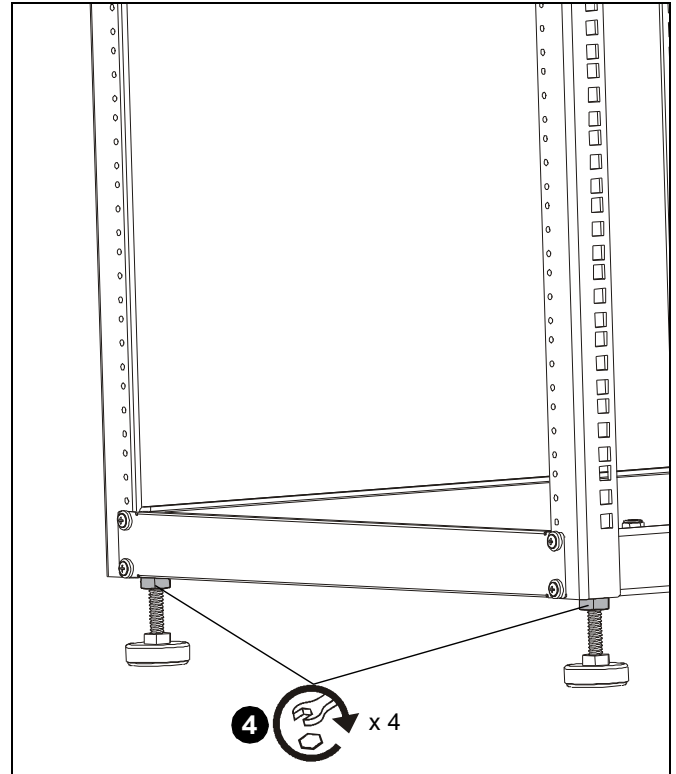4. Tighten nuts on feet until they are flush with the bottom of the rack. (See Figure 7)

Figure 7

Stacking (Second Rack sold separately)

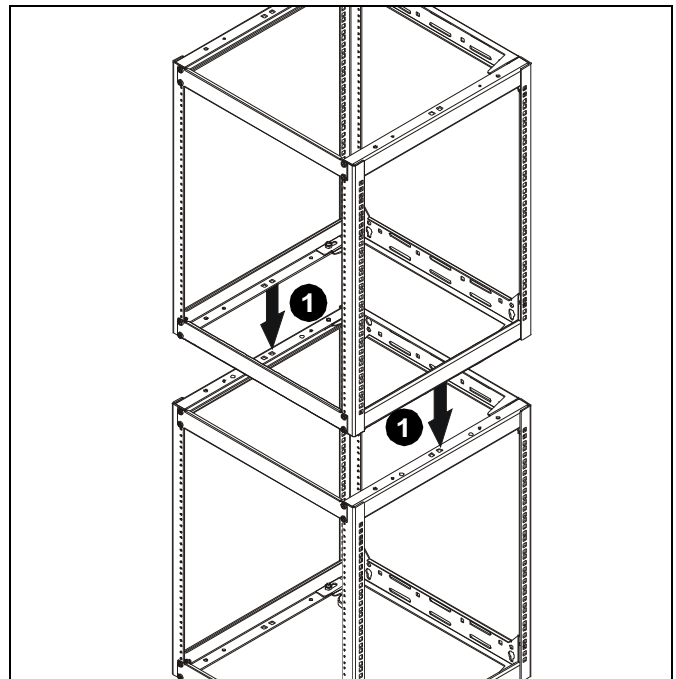1. Place assembled second rack (without feet) onto first rack. (See Figure 8)

Figure 8

2. Use four 1/4-20 x 3/8" Phillips screws (H) to secure second rack to first rack. (See Figure 9)

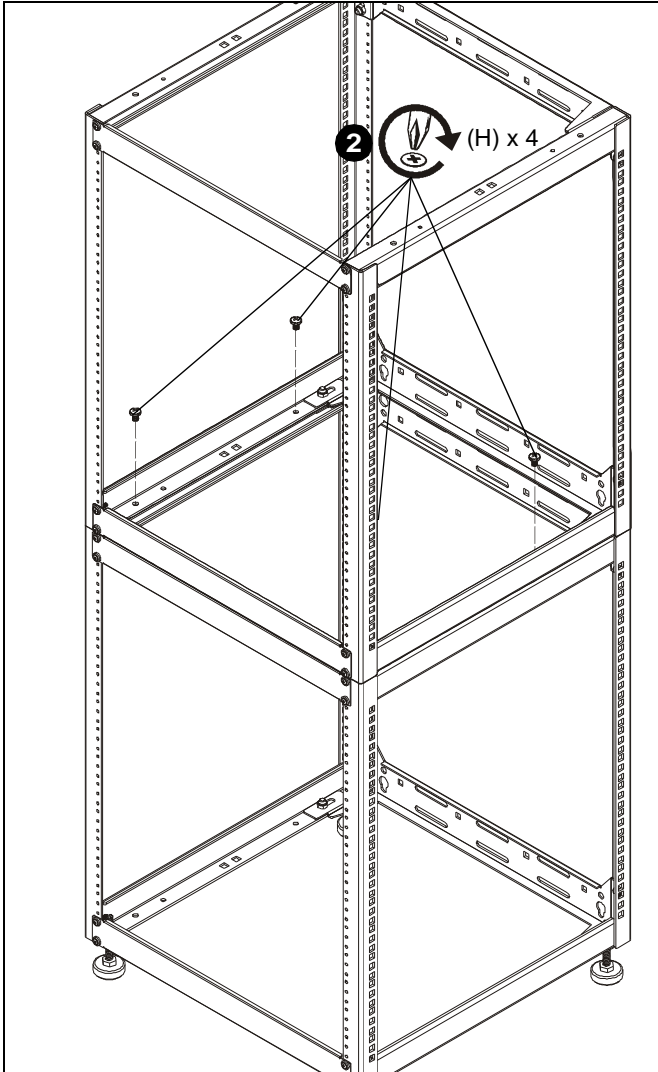⚠️ **WARNING:** Do NOT stack more than two racks on top of each other!

Figure 9

Mounting Single Rack to Wall - Wood Studs

NOTE: If installing to Concrete/Concrete Block, proceed to Mounting to Concrete/Concrete Block Section. If installing a Stacked Rack, proceed to Mounting Stacked Rack Sections.

1. Use a stud finder to locate wood studs.

2. Place assembled frame over studs and mark hole locations. (See Figure 10)

IMPORTANT ! : Use a level to make sure of a level mount.

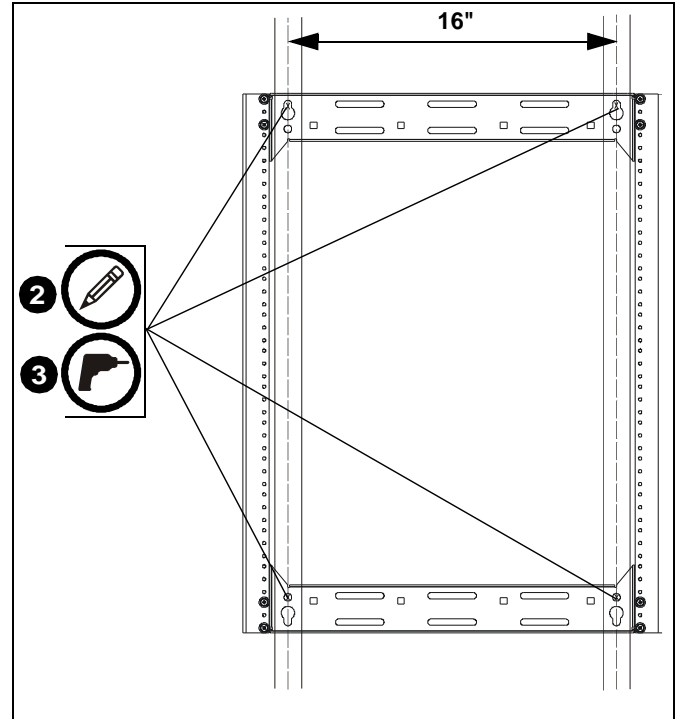3. Drill four 7/32" (5.5mm) diameter holes to a depth of 3 1/2" (89mm) at marked locations. (See Figure 10)

Figure 10

4. Partially install two 5/16" x 3 1/2" lag bolts (M) into upper holes. (See Figure 11)

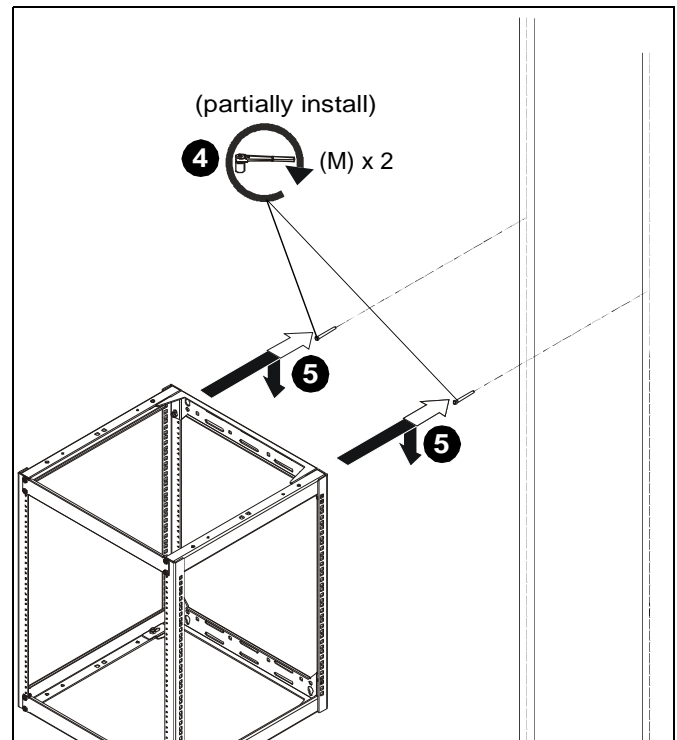5. Hang rack onto partially installed bolts. (See Figure 11)

Figure 11

6. Slide two "U" washers (J) onto lag bolts (M). (See Figure 12)

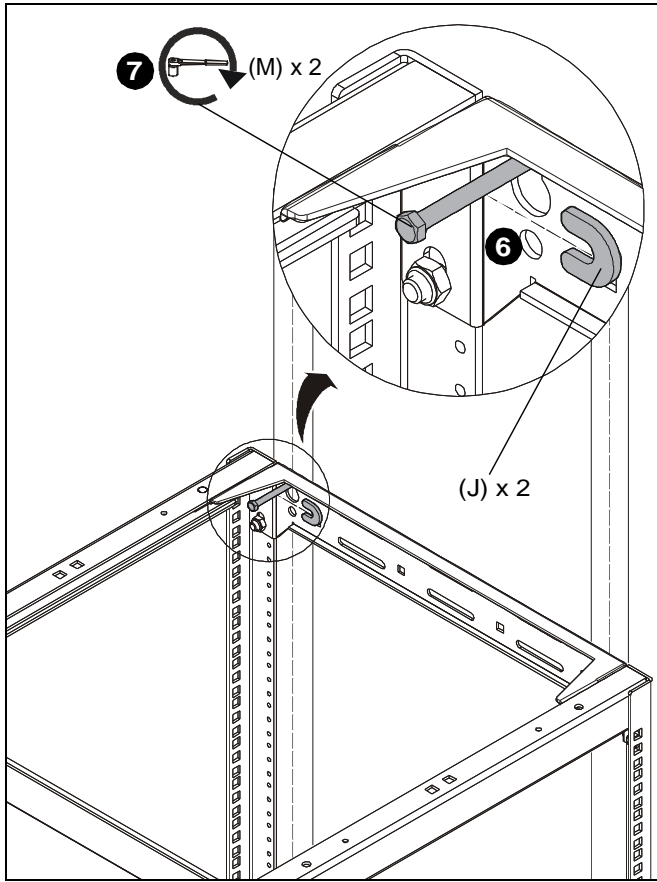7. Tighten two lag bolts (M) until "U" washers (J) are pulled firmly against the brace. (See Figure 12)

Figure 12

8. Use two 5/16" x 3 1/2" lag bolts (M) and two 3/4" spacers (K) to secure lower part of bracket to wall. (See Figure 13)
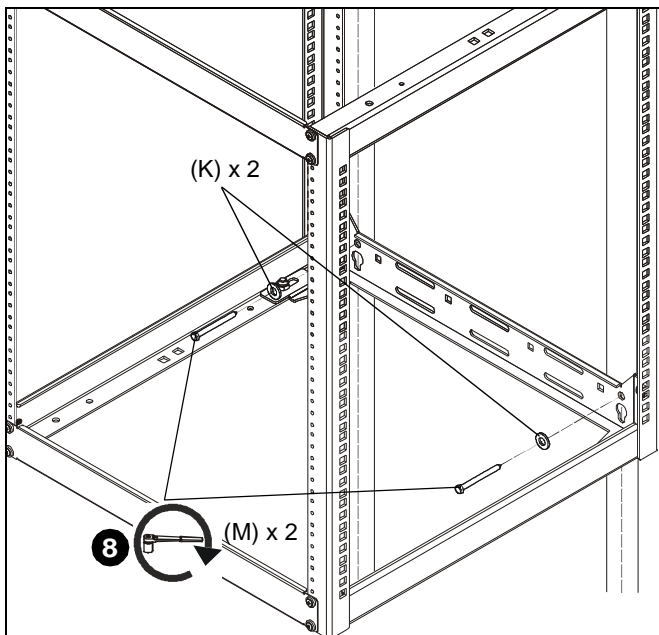

Figure 13

Mounting Single Rack to Wall - Concrete or Concrete Block

1. Determine mounting location.

2. Place assembled frame on wall and mark hole locations. (See Figure 14)

IMPORTANT ! : Use a level to make sure of a level mount.

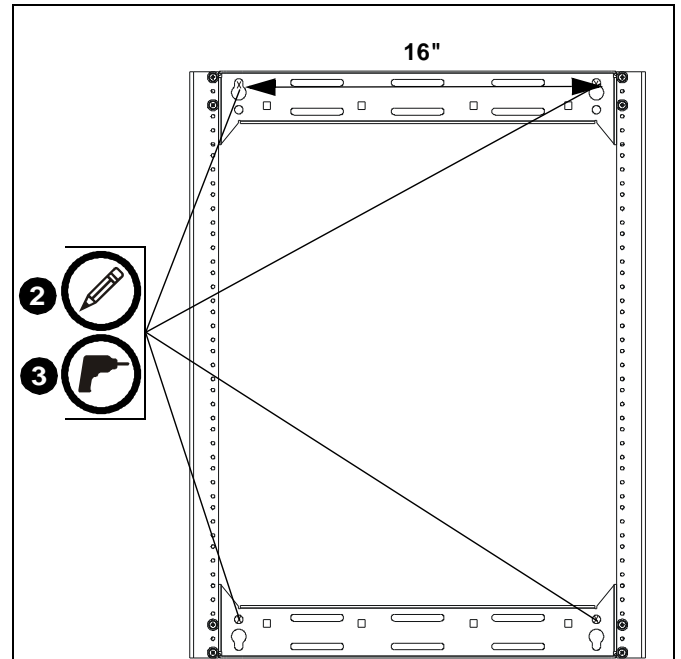3. Drill four 3/8" (10mm) diameter holes to a depth of 3 1/2" (89mm) at marked locations. (See Figure 14)

Figure 14

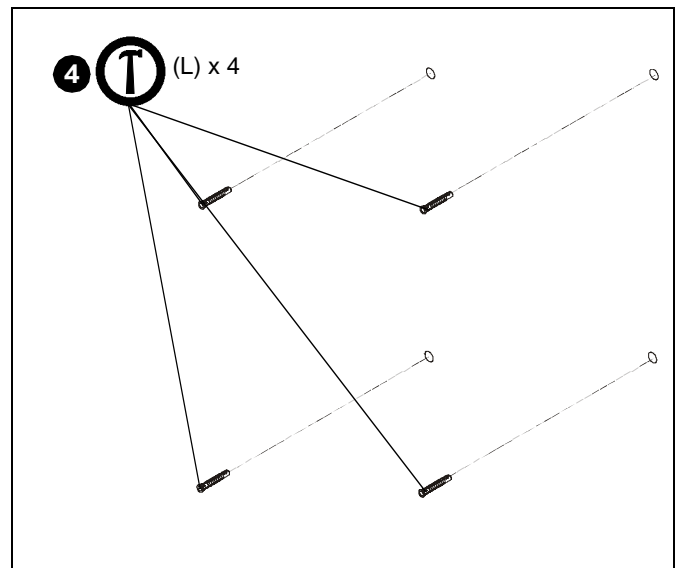4. Install four U10 anchors (L) into drilled holes. (See Figure 15)

Figure 15

9

5. Partially install two 5/16" x 3 1/2" lag bolts (M) into upper U10 anchors (L). (See Figure 16)

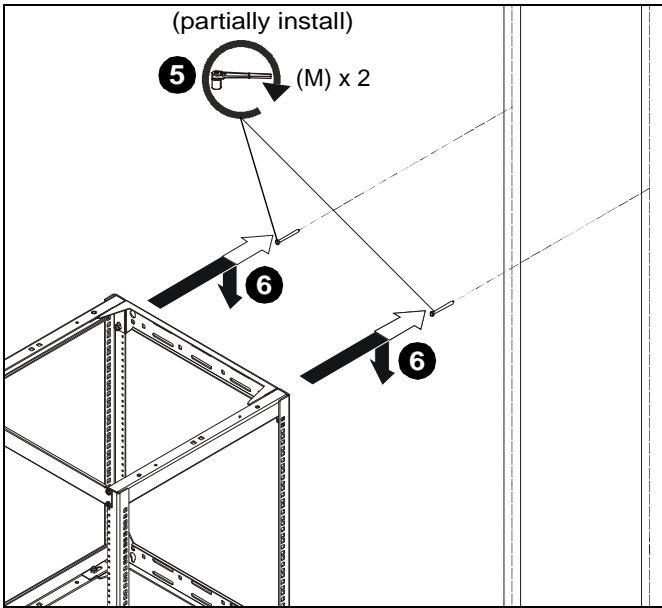6. Hang rack onto partially installed bolts. (See Figure 16)

Figure 16

7. Slide two "U" washers (J) onto lag bolts (M). (See Figure 17)

8. Tighten two lag bolts (M) until "U" washers are pulled firmly against the brace. (See Figure 17)

Figure 17

9. Use two 5/16" x 3 1/2" lag bolts (M) and two 3/4" spacers (K) to secure lower part of rack to wall. (See Figure 18)
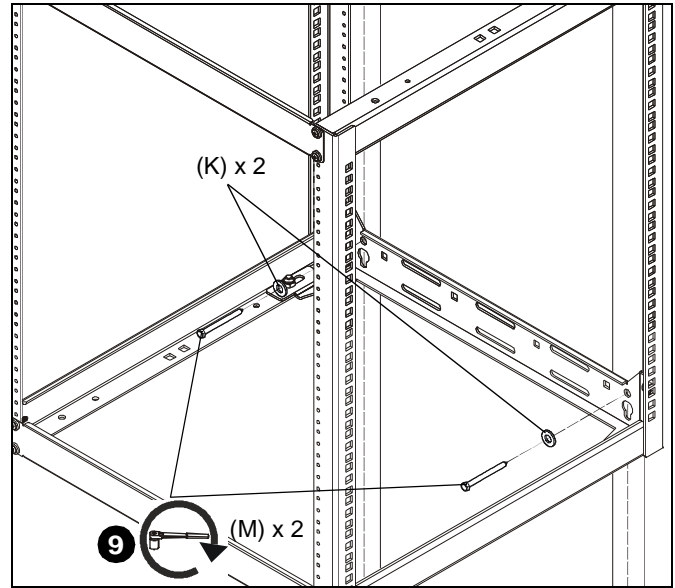
Figure 18

Mounting Stacked Racks to Wall- Wood Studs

1. Use a stud finder to locate wood studs.

2. Place assembled frame over studs and mark eight hole locations.

IMPORTANT ! : Use a level to make sure of a level mount.

3. Drill eight 7/32" (5.5mm) diameter holes to a depth of 3 1/2" (89mm) are marked locations.

4. Partially install two 5/16" x 3 1/2" lag bolts (M) into upper holes. (See Figure 19)

5. Hang rack onto bolts. (See Figure 19)

Figure 19

10

6. Slide two "U" washers (J) onto lag bolts (M). (See Figure 20)

7. Tighten two lag bolts (M) until "U" washers are pulled firmly against the brace. (See Figure 20)
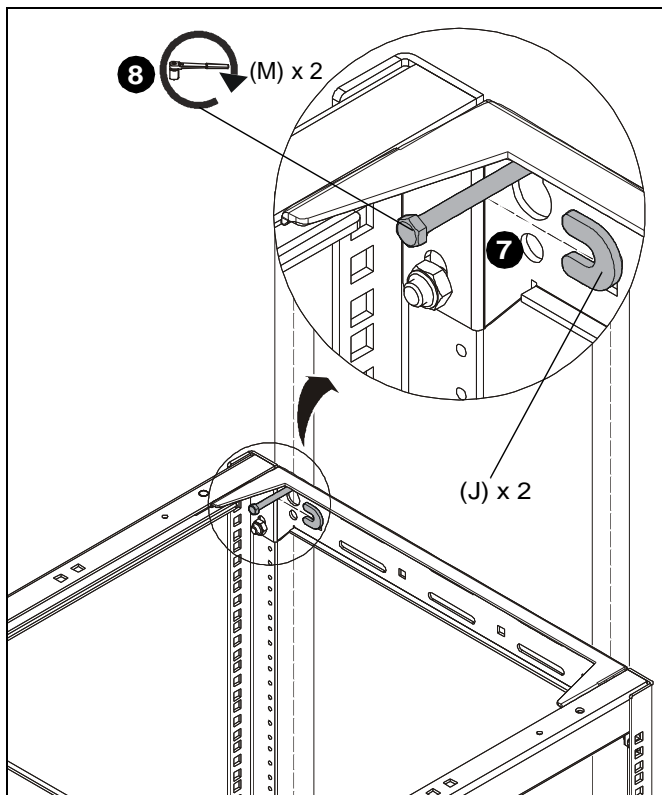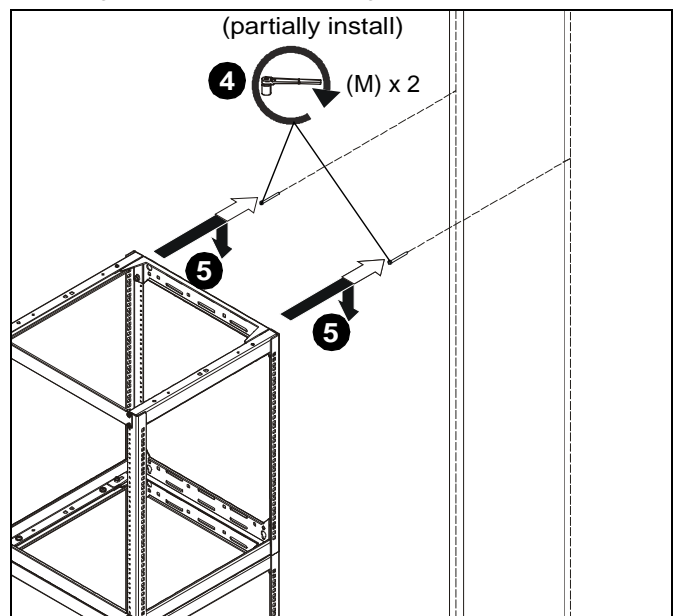
8. Use two 5/16" x 3 1/2" lag bolts (M) and two 3/4" spacers (K) to secure lower part of rack to wall. (See Figure 20)

9. Repeat Steps 4 and 6-9 for lower rack.
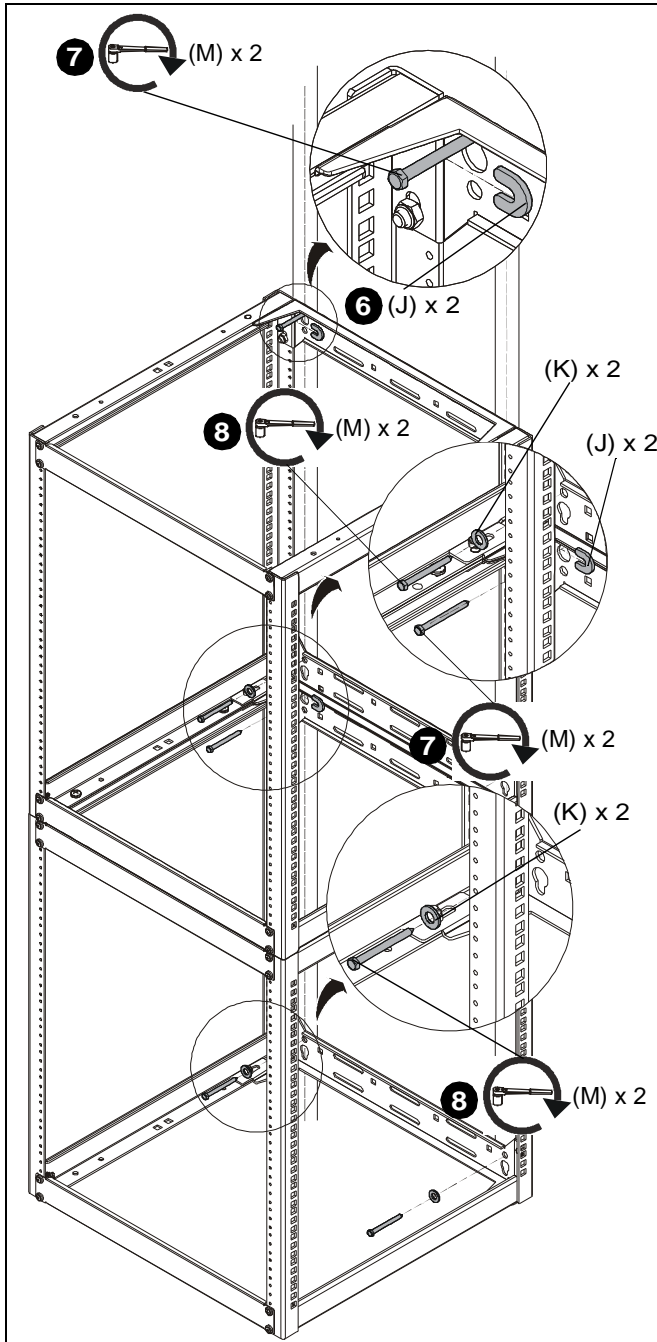
Figure 20

Mounting Stacked Racks to Wall - Concrete or Concrete Block

1. Determine mounting location and place assembled frame on wall and mark hole locations.

IMPORTANT ! : Use a level to make sure of a level mount.

2. Drill eight 3/8" (10mm) diameter holes to a depth of 3 1/2" (89mm) are marked locations.

3. Install eight U10 anchors (L) into drilled holes. (See Figure 21)

Figure 21

4. Partially install two 5/16" x 3 1/2" lag bolts (M) into upper holes. (See Figure 22)

5. Hang rack onto bolts. (See Figure 22)

Figure 22

6. Slide two "U" washers (J) onto lag bolts (M). (See Figure 20)

7. Tighten two lag bolts (M) until "U" washers are pulled firmly against the brace. (See Figure 20)

8. Use two 5/16" x 3 1/2" lag bolts (M) and two 3/4" spacers (K) to secure lower part of rack to wall. (See Figure 20)
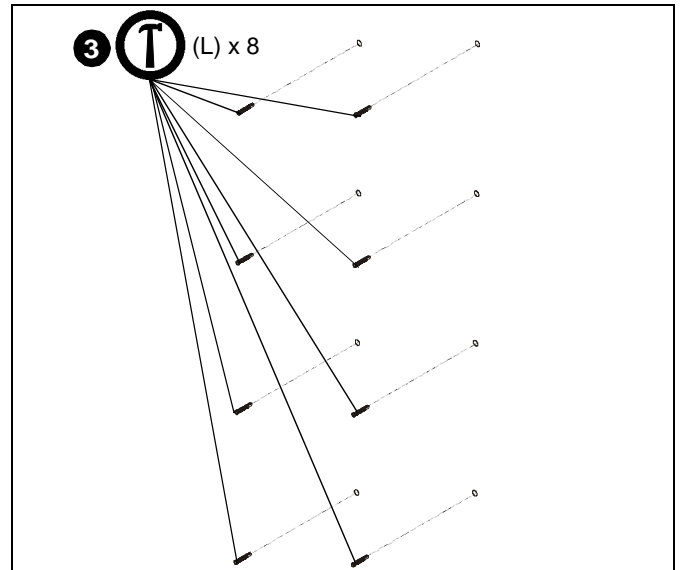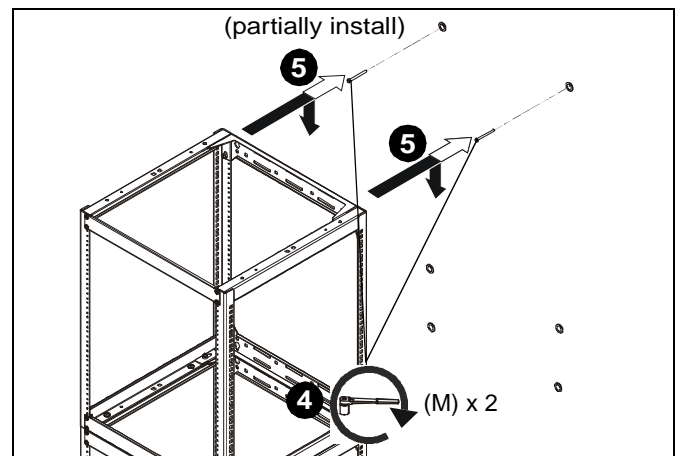
9. Repeat Steps 4 and 6-9 for lower rack.

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USA/International	**A**	6436 City West Parkway, Eden Prairie, MN 55344
	P	800.582.6480 / 952.225.6000
	F	877.894.6918 / 952.894.6918
Europe	**A**	Franklinstraat 14, 6003 DK Weert, Netherlands
	P	+31 (0) 495 580 852
	F	+31 (0) 495 580 845
Asia Pacific	**A**	Office No. 918 on 9/F, Shatin Galleria
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