

Climbing Wall Instruction Manual

Climbing Wall Panels

Select a style and quantity of panels to be mounted.

- 48" x 48" Wood Panel (081084268)
- 44" x 48" Granite Panel (081084276)

Climbing Wall Handholds

Select the styles and quantity of handholds to be attached.

- Character (081084284)
- Number (081084300)
- Letter (081084292)
- Roof Set (081084318)

If Mounting Directly to a Wall

A Panel Anchoring Kit contains hardware to mount **one** panel. Choose Panel Anchoring Kits according to the **quantity of panels** and the type of wall that the panels will be mounted to.

- Studded Wall Panel Anchoring Kit (081084367)
- Concrete Wall Panel Anchoring Kit (081084359)

If Mounting to an Adjustable Bracket System

The Adjustable Bracket System contains hardware to mount **two** panels. Choose Adjustable Bracket Anchoring Kits according to the **quantity of systems** and the type of wall that the systems will be mounted to.

- Adjustable Bracket System (081084342)
- Studded Wall Adjustable Bracket Anchoring Kit (081084334)
- Concrete Wall Adjustable Bracket Anchoring Kit (081084326)

Mounting a Single Panel to a Studded Wall

Studded Wall Panel Anchoring Kit (081084367)

Studded Wall Panel Anchoring Kit:

(4) 5/16" x 3" bolts
(4) 3/8" x 1 1/4" washers

Climbing Panel:

(1) Panel

Tools needed:

Drill
7/32" wood drill bit
1/2" wood drill bit
1/2" socket wrench
Tape measure
Level

Locate the studs in the wall that the panel will be mounted to. Mark 4 locations for the pilot holes on the studded wall. It is important that the pilot hole is in the center of the studs to ensure a safe and secure mounting of the Climbing Panel.

Measure the height and width of the marks on the studded wall. The panel does not have any pre-drilled holes for attaching to a studded wall. Mark where the holes will need to be drilled on the panel to line up with the pilot holes on the studded wall.

Drill pilot holes into the studded wall with a 7/32" drill bit at the marked locations.

Drill holes into the panel with a 1/2" drill bit at the marked locations.

Stand the panel flush against the wall. Place a 5/16" x 3" bolt through a 3/8" x 1 1/4" washer and the panel into the piloted hole in the wall. With a 1/2" socket wrench, fasten the bolt into the studded wall. Do not tighten completely.

Place 3 more bolts and washers through the panel holes and into the wall. Verify that the panel is level. Securely tighten all 4 bolts.

Mounting a Single Panel to a Concrete Wall

Concrete Wall Panel Anchoring Kit (081084359)

Concrete Wall Panel Anchoring Kit:

- (4) ½ - 13 x 2 ½” bolts
- (4) ½” washers
- (4) ½” single expansion anchors
- (1) ⅜” hex key

Climbing Panel:

- (1) Panel

Tools needed:

- Drill
- ⅞” carbide drill bit
- Hammer
- Level

Stand the panel flush against the wall. The panel comes with 6 pre-drilled holes. Use the 4 corner holes to mark the locations to drill into the concrete wall. Remove the panel.

Drill holes into the concrete wall at the marked locations with a ⅞” drill bit. The holes must be 2 ½” deep. Clean out the hole of all debris.

With a hammer, insert each anchor into the concrete wall threaded side first.

Stand the panel against the wall. Place a ½ - 13 x 2 ½” bolt through a ½” washer and the panel into the anchor in the wall. With a ⅜” hex key, fasten the bolt into the concrete wall. Do not tighten completely.

Place 3 more bolts and washers through the panel holes and into the wall. Verify that the panel is level. Securely tighten all 4 bolts.

Mounting Two Panels to an Adjustable System on a Studded Wall

Adjustable Bracket System for Studded Wall (081084342 + 081084334)

Adjustable Bracket System:

- (3) 51” horizontal channels
- (2) 90” vertical assemblies
- (10) ½ - 13 spring nuts
- (10) ½ - 13 x 1 ¾” bolts
- (6) ⅜” x 1 ¼” washers
- (6) ⅜ - 16 spring nuts
- (6) ⅜ - 16 x 1” bolts
- (1) 5/16 hex key
- (1) 7/32 hex key

Climbing Panel:

- (2) Panels

Tools needed:

- Drill
- 7/32 wood drill bit
- ½” socket wrench
- Tape measure
- Level

Studded Wall Adjustable Bracket Anchoring Kit:

- (12) 5/16” x 3” bolts
- (12) ⅜” x 1 ¼” washers

Step 1: Horizontal Channel Installation

Locate the studs in the wall that the Adjustable Bracket System will be mounted to. The horizontal channels will need to span 4 studs across at heights of 21”, 63”, and 83” (*See figure 1*)

Mark locations for 4 pilot holes at 21” above the floor on the studded wall. It is important that the pilot hole is in the center of the studs to ensure a safe and secure mounting of the Adjustable Bracket System.

Drill pilot holes into the studded wall with a 7/32” drill bit at the marked locations.

Hold a horizontal channel against the wall. Place a 5/16” x 3” bolt through a ⅜” x 1 ¼” washer and the horizontal channel into the piloted hole in the wall. With a ½” socket wrench, fasten the bolt into the studded wall. Do not tighten completely.

Place 3 more bolts and washers through the horizontal channel and into the wall. Verify that the horizontal channel is level. Securely tighten all 4 bolts.

Repeat the same process for horizontal channels at heights of 63" and 83".

Step 2: Vertical Assembly Installation

The vertical assemblies will be mounted with the small black wheels facing inward on both ends of the horizontal channels. (See figure 1)

Place a $\frac{3}{8}$ " - 16 spring nut into both ends of each horizontal channel. Set the spring nuts 44 $\frac{1}{4}$ " apart. (See figure 1)

Hold a vertical assembly against the horizontal channels making sure that the weight rests on the floor and the wheel is facing inward. Place a $\frac{3}{8}$ " - 16 x 1" bolt through a $\frac{3}{8}$ " x 1 $\frac{1}{4}$ " washer and the vertical assembly into a channel nut. With a 7/32 hex key, fasten the bolt into the channel nut. Do not tighten completely.

Place 2 more bolts and washers through the vertical assembly and into the channel nuts. Verify that the vertical assembly is level. Securely tighten all 3 bolts.

Repeat mounting process for other vertical assembly. Make sure the channel nuts remain 44 $\frac{1}{4}$ " apart before tightening the second vertical assembly.

Step 3: Panel Installation

Place a $\frac{1}{2}$ " - 13 spring nut in the inner channel of each vertical assembly at heights of 12" and 36". For optional Step 5, place a $\frac{1}{2}$ " - 13 spring nut in the outer channel of each vertical assembly at a height of 24". (See figure 1)

Stand a panel against the vertical assemblies with the pre-drilled mounting holes aligned with the spring nuts. Place a $\frac{1}{2}$ " - 13 x 1 $\frac{3}{4}$ " bolt through the panel mounting hole and into a spring nut. With a 5/16 hex key, fasten the bolt into the spring nut. Do not tighten completely.

Place 3 more bolts through the panel mounting holes and into the spring nuts. Verify that the panel is level. Securely tighten all bolts.

Repeat the same process for the second panel with the spring nuts at heights of 60" and 84".

Step 4: Opening the Climbing Wall into an Inclined Position (optional)

To open the Climbing Wall, remove the lanyard pins at the base on each side of the bracket system. Slide the Climbing Wall out to an inclined position.

Step 5: Lock the Climbing Wall in a Vertical Position (optional)

To lock the Climbing Wall vertical, place two $\frac{1}{2}$ " - 13 x 1 $\frac{3}{4}$ " bolts through the lower panel's outer mounting holes and into the spring nuts. With a 5/16 hex key, fasten the bolts.

Mounting Two Panels to an Adjustable System on a Concrete Wall

Adjustable Bracket System for Concrete Wall (081084342 + 081084326)

Adjustable Bracket System:

- (3) 51" horizontal channels
- (2) 90" vertical assemblies
- (10) ½ - 13 spring nuts
- (10) ½ - 13 x 1 ¾" bolts
- (6) ⅜" x 1 ¼" washers
- (6) ⅜ - 16 spring nuts
- (6) ⅜ - 16 x 1" bolts
- (1) 5/16 hex key
- (1) 7/32 hex key

Climbing Panel:

- (2) Panels

Tools needed:

- Drill
- ⅞" carbide drill bit
- ½" socket wrench
- Tape measure
- Level

Concrete Wall Adjustable Bracket Anchoring Kit:

- (6) ½" - 13 x 2 ½" bolts
- (6) ½" washers
- (6) ½" single expansion anchors
- (1) ⅜" hex key

Step 1: Horizontal Channel Installation

The horizontal channels will need to be mounted on the wall at heights of 21", 63", and 83" (*See figure 1*)

Mark locations for 2 holes at 21" above the floor on the concrete wall.

Drill holes into the concrete wall at the marked locations with a ⅞" drill bit. The holes must be 2 ½" deep. Clean out the hole of all debris.

With a hammer, insert each anchor into the concrete wall threaded side first.

Hold a horizontal channel against the wall. Place a ½" - 13 x 2 ½" bolt through a ½" washer and the horizontal channel into the anchor in the wall. With a ⅜" hex key, fasten the bolt into the concrete wall. Do not tighten completely.

Place 1 more bolt and washer through the horizontal channel and into the wall. Verify that the horizontal channel is level. Securely tighten both bolts.

Repeat the same process for horizontal channels at heights of 63" and 83".

Step 2: Vertical Assembly Installation

The vertical assemblies will be mounted with the small black wheels facing inward on both ends of the horizontal channels. (*See figure 1*)

Place a ⅜ - 16 spring nut into both ends of each horizontal channel. Set the spring nuts 44 ¼" apart. (*See figure 1*)

Hold a vertical assembly against the horizontal channels making sure that the weight rests on the floor and the wheel is facing inward. Place a ⅜ - 16 x 1" bolt through a ⅜" x 1 ¼" washer and the vertical assembly into a channel nut. With a 7/32 hex key, fasten the bolt into the channel nut. Do not tighten completely.

Place 2 more bolts and washers through the vertical assembly and into the channel nuts. Verify that the vertical assembly is level. Securely tighten all 3 bolts.

Repeat mounting process for other vertical assembly. Make sure the channel nuts remain 44 ¼" apart before tightening the second vertical assembly.

Step 3: Panel Installation

Place a ½ - 13 spring nut in the inner channel of each vertical assembly at heights of 12" and 36". For optional Step 5, place a ½" - 13 spring nut in the outer channel of each vertical assembly at a height of 24". (See figure 1)

Stand a panel against the vertical assemblies with the pre-drilled mounting holes aligned with the spring nuts. Place a ½" - 13 x 1 ¾" bolt through the panel mounting hole and into a spring nut. With a 5/16 hex key, fasten the bolt into the spring nut. Do not tighten completely.

Place 3 more bolts through the panel mounting holes and into the spring nuts. Verify that the panel is level. Securely tighten all bolts.

Repeat the same process for the second panel with the spring nuts at heights of 60" and 84".

Step 4: Opening the Climbing Wall into an Inclined Position (optional)

To open the Climbing Wall, remove the lanyard pins at the base on each side of the bracket system. Slide the Climbing Wall out to an inclined position.

Step 5: Lock the Climbing Wall in a Vertical Position (optional)

To lock the Climbing Wall vertical, place two ½" - 13 x 1 ¾" bolts through the lower panel's outer mounting holes and into the spring nuts. With a 5/16 hex key, fasten the bolts.

WARNINGS

- Read through manual before installing the Climbing Wall, Anchoring Kits, or Adjustable Bracket System
- Become familiar with the location of the utilities within the wall before drilling any holes.
- It is important to have a licensed professional remove any electrical fixtures, conduit, plumbing, etc.
- Choose a location that provides a sufficient landing zone.
- An 8' minimum wall clearance is recommended.
- Always follow manufacturer's safety recommendations when using power tools.
- Always perform regular inspections and maintenance of equipment.
- Do not over tighten bolts or handholds. This could cause bolts to strip and handholds to crack or break.
- A mat at least 4" thick should be placed at the base of the Climbing Wall.
- Never allow children to climb without adult supervision. There should be at least one adult per child.

Figure 1:

