Discovery® Plate-Loaded Series

DPL802 Smith Machine | Assembly Guide



Assembly Requirements

Precor recommends at least two people for this installation. DO NOT attempt assembly by yourself.

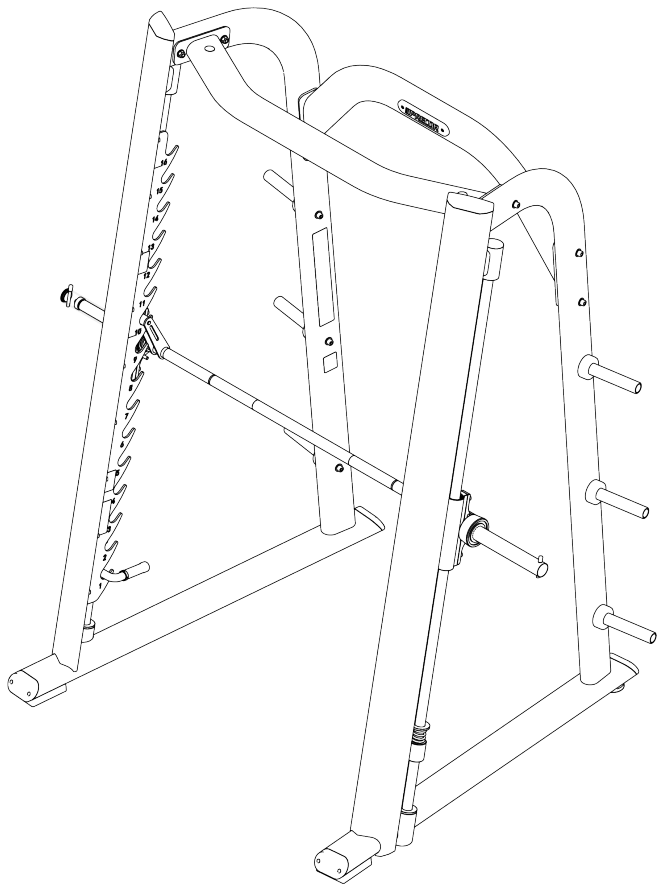
When assembling the equipment, we recommend you:

- Follow the assembly instructions in order.
- Unpack the box(es) and assemble the equipment close to where you plan to use it.
- Locate the equipment at least 40 inches (1 meter) away from walls or furniture on either side of the equipment, and 40 inches (1 meter) away from objects behind or in front of the equipment.
- Assemble the equipment on a solid, flat surface so it remains level and stable.
- Do not fully tighten fasteners until instructed to do so.
- DO NOT move equipment without assistance.

Required Tools

- Torque wrench with torque range to at least 150 ft-lb (206 N-m) and fits the following hex bits: 6, 8, and 10 mm
- Socket wrench sets, metric and standard, plus extensions
- Open-end wrench sets, metric and standard
- Hex wrench sets, metric and standard, plus extensions
- Philips screwdriver

Dimensions W = 2130 mm/84 inches; H = 2213 mm/87.2 inches; L = 1477 mm/58.2 inches
Net Weight = 413 lbs/187.4 kg
Max load weight = 300 lbs/136.1 kg per side (net load 600 lbs/272.2 kg)



Frame Components

1. Side frame, left
2. Side frame, right
3. Rear cross frame
4. Weight bar
5. Top cross frame

Hardware Kit

	Name	Qty
6	Weight storage bar	6
7	Weight storage bar bumper	6
8	Weight plate retention pin	2
9	M12 x 85 mm socket head cap screw	8
10	M12 x 30 mm socket head cap screw	4

	Name	Qty
11	M12 x 25 mm socket head cap screw	6
12	Set screw M8	6
13	13 mm flat washer	24
14	M12 nylon lock nut	6

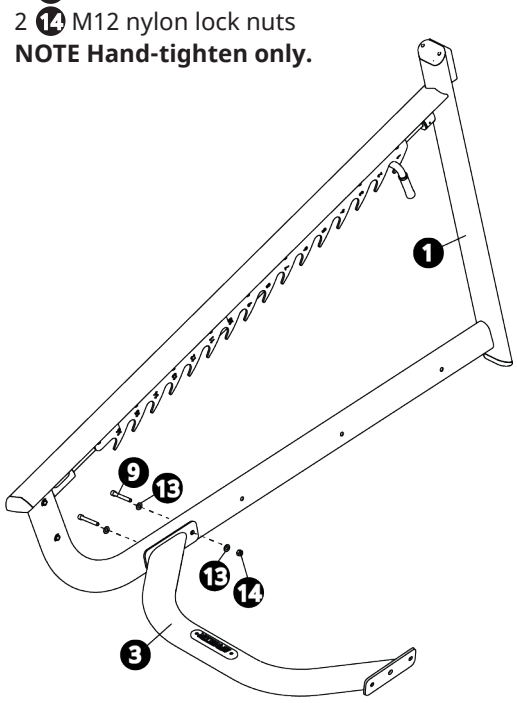
Frame Assembly

1. Attach left side frame to rear cross frame

CAUTION Lay a protective cloth on the ground to protect the paint on standing frames during this step.

Over a protective cloth, have your assistant hold the left side frame 1 up and attach the rear cross frame 3 using:

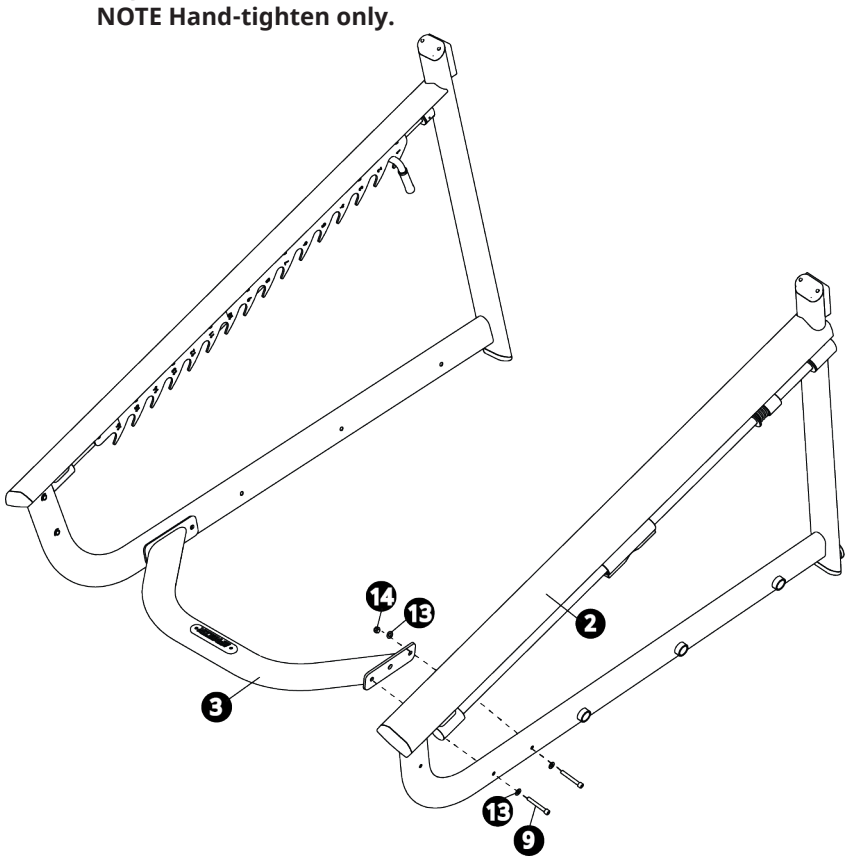
2 9 M12 x 85 mm socket head cap screws (SHCS)
6 13 13 mm flat washers
2 14 M12 nylon lock nuts
NOTE Hand-tighten only.



2. Attach right side frame to rear cross frame

With the unit still on its side, attach the rear cross frame 3 to the right side frame 2 using:

2 9 M12 x 85 mm SHCS (lower holes)
6 13 13 mm flat washers
2 14 M12 nylon lock nuts
NOTE Hand-tighten only.

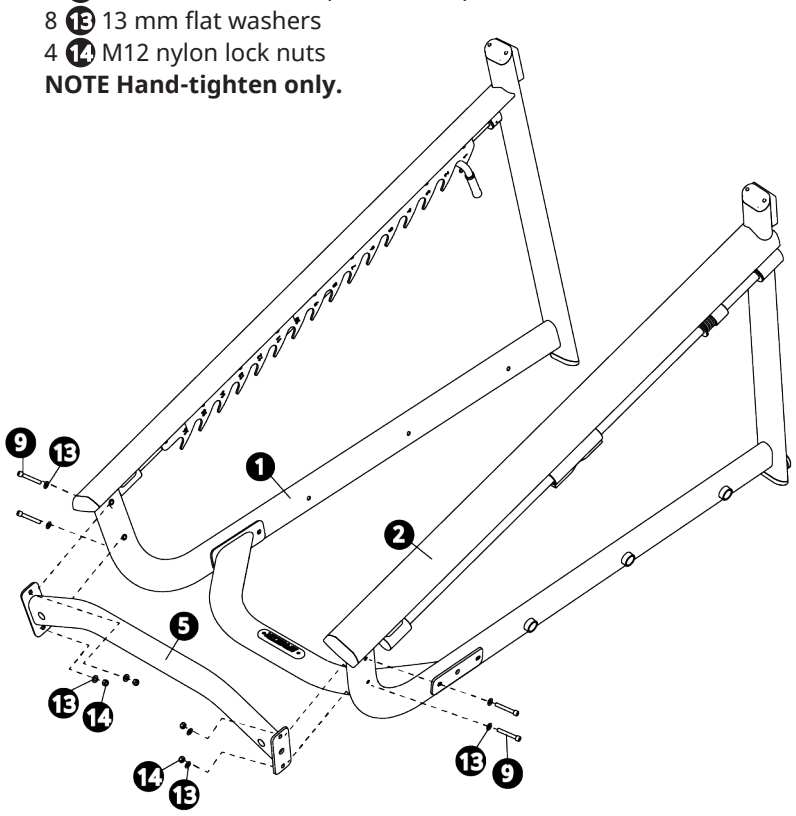


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3. Attach top cross frame to side frames

With the unit still on its side, attach the top cross frame ❺ with the drain holes outward to the side frames ❶ ❷ using:

4 ❾ M12 x 85 mm SHCS (lower holes)
8 ⓭ 13 mm flat washers
4 ⓮ M12 nylon lock nuts
NOTE Hand-tighten only.

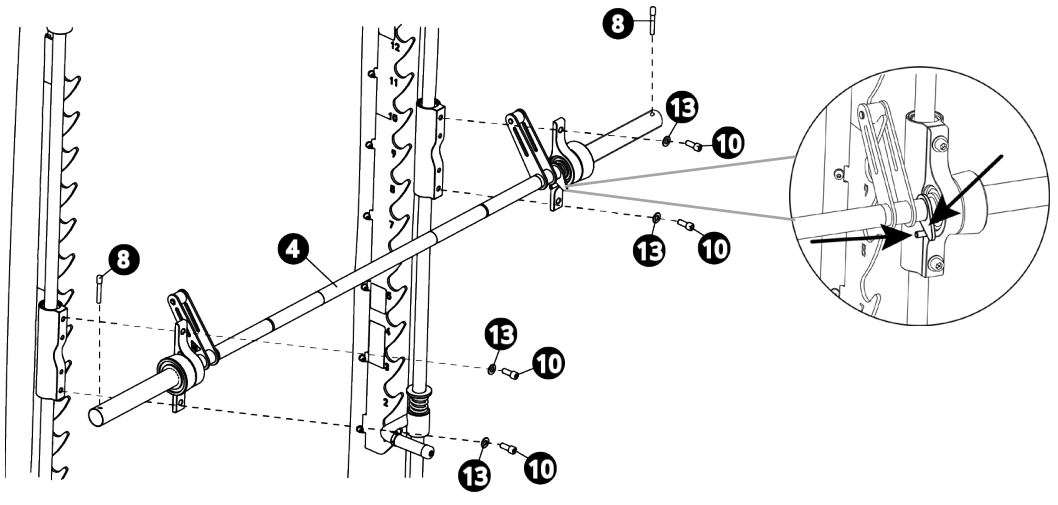


4. Attach weight bar to frame

Stand the unit up and adjust so that it is square. Place the weight bar ❹ against the side frames so that fastener holes align on the bar and linear bearing housing on the frame. Adjust frame as needed so bar aligns correctly and the safety stop is down and against the stop pin (see inset). Secure the weight bar using:

4 ❿ M12 x 30 mm SHCS
4 ⓭ 13 mm flat washers
NOTE Hand-tighten only.

Insert weight plate retention pins ❽ into each end of the weight bar.

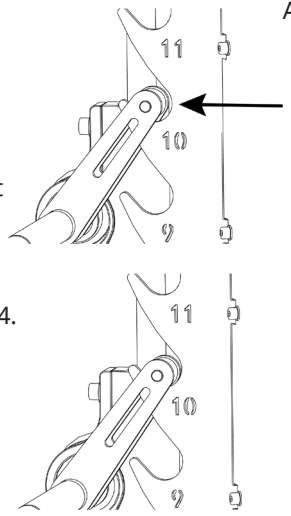


5. Adjust weight bar and tighten all fasteners

If either weight bar catch roller does not engage fully with a hook, then adjust the frame as follows:

1. Turn the two feet so they are fully recessed into the frame.
2. Loosen the four bolts connecting the top and rear cross frames on the side opposite of the hook that does not engage.
3. Extend the foot on the opposite side of the hook that does not engage.
4. Tighten the four bolts on the cross frames.
5. Check the catch rollers to see if it fully engages with the catch hook. If either catch roller does not fully engage, repeat steps 2-4.
6. Adjust the opposite foot to steady the unit.

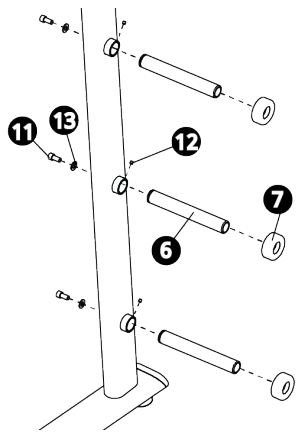
When the weight bar is flush to the frame and both catch rollers on the weight bar rest fully in the catch hooks, then **torque all M12 hardware to 90 N-m** (66.38 ft-lb).



6. Attach weight storage bars

Attach the six weight storage bars ❻ to the left and right side frames using:

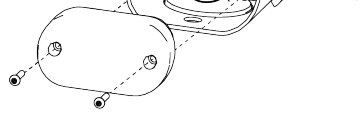
6 ⓬ set screws (fully tighten)
6 ⓭ 13 mm flat washers
6 ⓫ M12 x 25 mm SHCS
6 ❼ storage bar bumpers
NOTE Fully tighten.



Stabilize Equipment

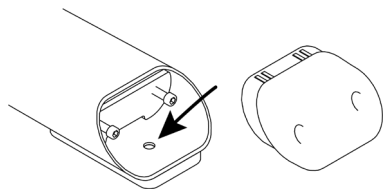
After assembly, test the stability by pushing down on each corner of the unit. If the base frame rocks or wobbles, adjust the feet to stabilize it.

1. Locate the round adjustable feet on the unit.
2. Remove the cover.
3. Use a 19 mm open-end wrench to turn the positioning bolt. Turn right to move foot upward. Turn left to move foot downward.
4. Continue to test the corners of the unit and readjust feet as needed.
5. When the equipment is stable, re-tighten the jam nut with an 18 mm open-end wrench to 50 ft-lb (67.79 N-m).
6. Replace the cover and tighten.



Bolt Equipment to Floor

Precor recommends that the strength equipment be bolted down at all anchoring points. To bolt the equipment to the floor, remove the end cap from the frame base to expose the anchor point. Replace end caps when bolting is complete.



NOTE As floor materials vary, it is important to consult a licensed contractor to advise on proper bolting techniques and appropriate fastener types.

CAUTION Standards can change. Precor recommends you keep apprised of your local industry standards. Precor shall not be held liable for failure to properly bolt the strength equipment to the floor.

Refer to your Discovery Plate Loaded Line owner's manual for maintenance information. For support, tutorials, and more information in additional languages, visit us at *www.precor.com*.

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