

The background of the cover is a close-up, low-angle shot of a modern building's facade. The image shows a series of dark, metallic-looking structural elements, possibly a staircase or a series of beams, that create a strong sense of depth and perspective. The lighting is dramatic, with a bright light source on the left side, creating a strong glow and highlighting the textures of the building materials. The overall color palette is dark and moody, with shades of grey, black, and white, accented by the warm light from the left.

TUNE[®]

Tune M1L Foldaway Bench Install Guide

About This Guide

This guide covers everyday use of your Tune Foldaway Bench: installing, uninstalling, deploying, stowing, using the lids, and keeping it secured for travel. This guide applies to both the full bench and the club bench.

- Bench Install Prep - Out-of-Box
- New Install
- Bench Operation
- Uninstalling & Reinstalling the Bench
- Troubleshooting
- Appendix A - Bench Setup Dimensions

Bench Components and Service Tools Required

Bench Components:

Richlite Bench Lid(s)

Gas Struts

Slam Latches

Stow Struts

Rubber Draw Latches

Bench Tie-Down Straps

Tools for Service/Install/Uninstall:

T-40 Driver (Hand or Impact)

13mm Socket and Socket Wrench

13mm Ratcheting Wrench

Torque Wrench with T-40

Tape Measure

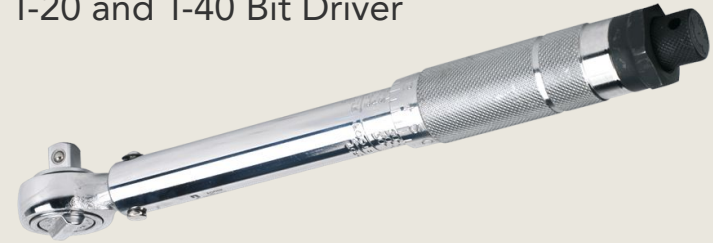
Flashlight

Service Tools Required

T-40 and T-20 Driver (Hand or Impact)



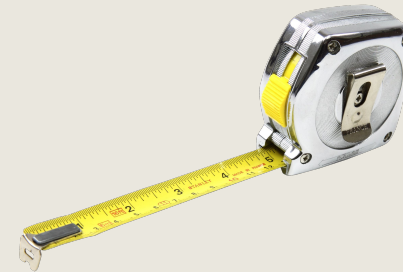
Torque Wrench with a T-20 and T-40 Bit Driver



13mm Socket and Socket Wrench



Tape Measure



8mm and 13mm Ratcheting Wrench

Flashlight



What's in the Box?

Opening the Box

1. Check for all components
 - a. (2) Stow Strut Brackets
 - b. (1) Short Stow Strut Bracket and Protective Pad
 - c. (2) Stow Struts
 - d. (2) Stow Strut Hardware Kits
 - e. (2) Rubber Draw Latches
 - f. (1) Standard Bench Hardware Kit
 - g. (2) Cam Straps with Strap Keeper



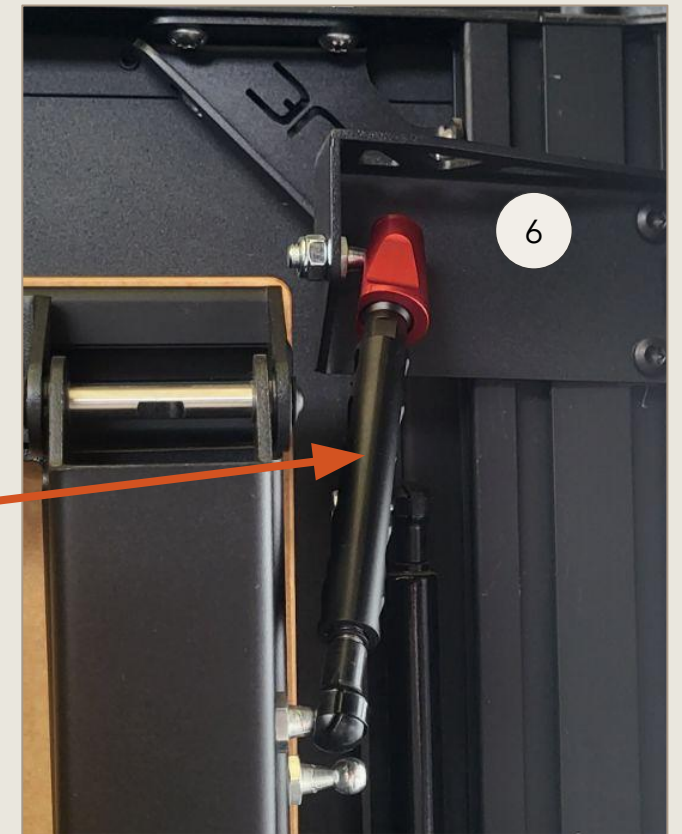
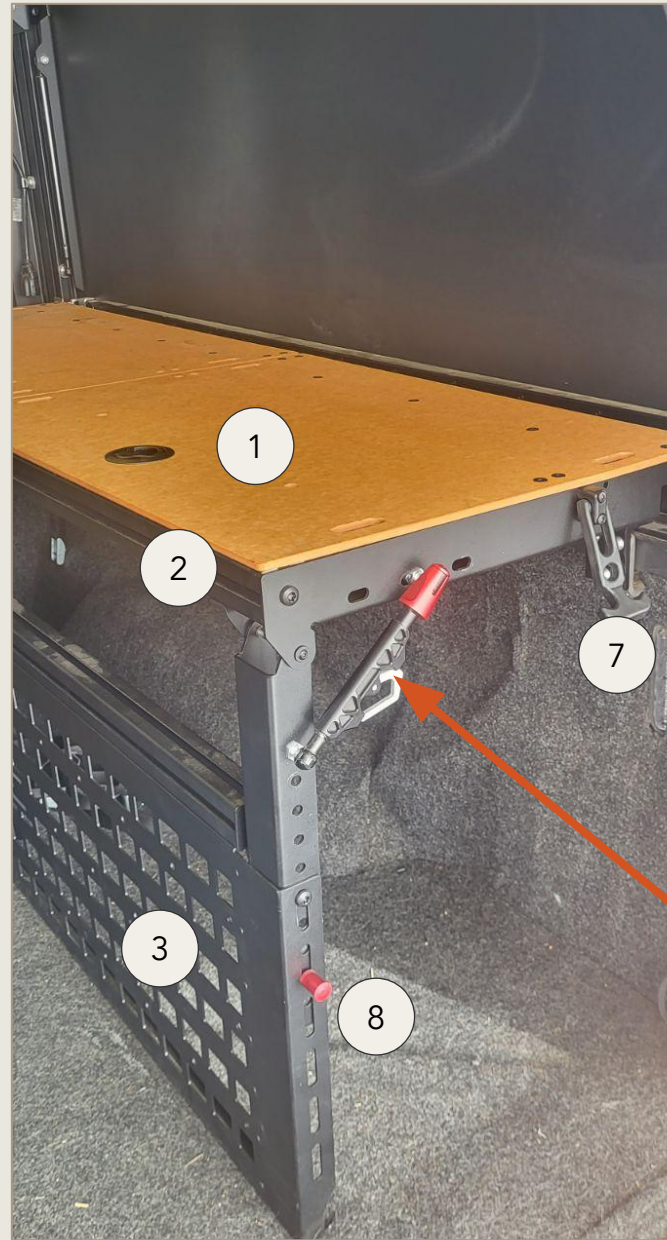
Fig. 1



Fig. 2

Bench Components

1. Richlite Bench Lid(s)
2. Bench Top Frame
3. Bench Front/MOLLE Panel
4. Gas Struts
5. Stow Struts
6. Stow Strut Brackets
7. Rubber Draw Latches
8. Latch Post/Clamp Post
9. Bench Tie-Down Straps



Before Service/Install/Uninstall:

1. Clear the bench of loose contents.
2. Ensure the truck/camper is on level ground.
3. Be aware of any wiring that could be impacted.
4. Ensure that a Husky Liner/BedRug has been installed. The bench needs to be installed on an even surface to ensure the top can be made level.
5. For install/uninstall, a second person may be necessary, especially for larger bench sizes.

Preparing for Initial Install (Out of Box)

Bench Height Positioning

1. Check for all components
 - a. (2) Stow Strut Brackets
 - b. (1) Short Stow Strut Bracket
 - c. (2) Stow Struts with Hardware Kits
 - d. (2) Rubber Draw Latches with Latch Posts
 - e. (2) Cam Straps
2. Identify bench height measurement based on your vehicle from chart ([Appendix A](#)).
3. With MOLLE panel face down, use a 13mm wrench and a T-40 driver to remove the 2 bolts and nuts holding the bench face on both sides. (Fig. 1)
4. Slide the bench face down until the measurement shown in Fig. 2 is achieved.
5. Re-install one bolt on each side, ensuring not to line them up, to secure the bench height. Do not completely tighten each bolt yet as this bolt may need to be adjusted later in the process depending on your specific truck.



Fig. 1



Fig. 2



Fig. 3

Preparing for Initial Install (Out of Box)

Ball Stud Positioning

6. Determine the best position for the stow strut ball studs, depending on which holes are still available.
7. Lift bench to sit at a 90 degree angle (Fig. 1). Hinges should be upward with the bench top sitting flat on the same surface as MOLLE panel face.
 - a. Hold stow strut at a 45 degree angle, using the bottom holes as the starting point. Make note of the optimal through holes as they will be used in the next step.
 - b. **NOTE:** The bench must sit at 90 degrees, with the stow strut as close to 45 degrees as possible. (Fig. 2)
8. Install the ball studs with a plastic washer between the ball stud and the outer face of the bench leg. (Fig. 3)
 - a. Use two 13mm ratchet wrenches. Hold the ball stud still while tightening so you do not scratch the exterior powder coat.



Fig. 1

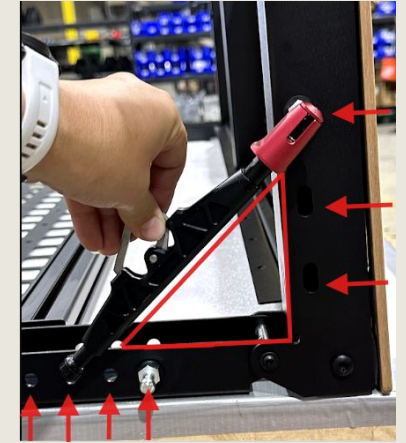


Fig. 2



Fig. 3

Preparing for Initial Install (Out of Box)

Bench Clamp Post and Rubber Draw Latch Positioning

9. Fold the bench top back down and find the 2 sets of vertical through holes. (Fig. 1)
 - a. Choose the best position for the bench clamp posts, depending on which holes are still available.
10. Install the draw latch into the hole locations identified in the step above (red arrows).
11. Use an 8mm ratchet wrench and a T-20 driver on a torque wrench. Do not overtighten, ensure the torque wrench is set to 12 ft-lb.
12. Based on where the draw latch was installed, install latch post into the aligning set of holes (blue arrows).
- a. Apply threadlocker to the M8 bolt if it does not already have it.
13. Use the draw latches to clamp the bench shut and confirm it closes squarely. (Fig. 2)

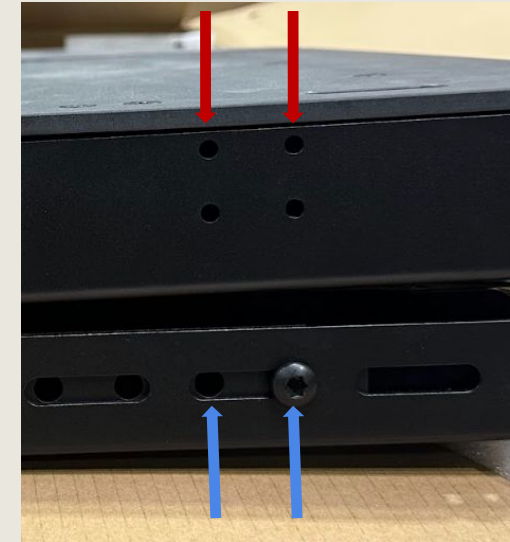


Fig. 1

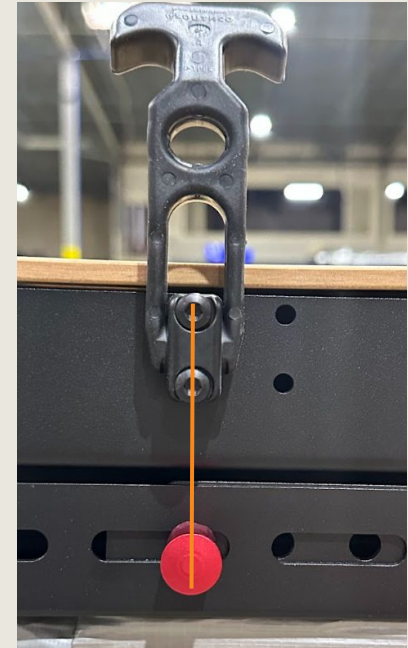


Fig. 2

Preparing for Initial Install (Out of Box)

14. Verify the first bolt is not interfering with either the bench clamp post or ball stud. (Fig. 1)
15. Install the second bolt on the inside of the leg (Fig. 2), ensuring the inside bolt is not in the same location as the bolt on outside of leg. (Fig. 3)
 - a. Do not place bolts directly opposite of each other in a leg, this will create a hinge and the bench leg will not safely support any load.
 - b. Select slots that have the inner hole as close to the center, when possible. (Fig. 3)
16. Mirror bolt placement on the other leg.
17. Torque each bolt to 10 ft-lb.



Fig. 1



Fig. 2

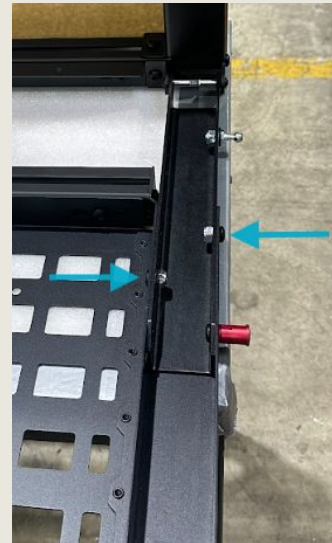


Fig. 3

Preparing for Initial Install (Out of Box)

Install Prep – Stow Brackets

1. Hand thread SS.TBHCS.BO.M8X12 and SS.HMRN.M8X8.8 through the mounting holes.



Fig. 1

Initial Bench Installation

Position and Center the Bench

1. Center the bench on the base profile and lightly thread the hammer nuts into place using a T-40 driver. Use a tape measure to confirm center. (Fig. 1)
 - a. Measure the distance between camper profiles, subtract the width of the outer hinges, and divide by two. This is the distance on each side of the bench that it should be set to.

Bench Size	5'	5.5'	6'	6.5'
Outer Hinge Width (in)	47.25	53.25	60.25	64.75

- i. Example: 68.75" between profiles, 6.5" bench: $68.75 - 64.75 = 4$, $4 / 2 = 2$. You should have 2" either side.
 - ii. Do not fully tighten the hammer nuts yet. The bench is not fully tightened until later.
- b. Exception – driver side with a heater: in some trucks the bench must be installed off center. Locate the bench so there is enough room between the bench and the heater to operate the stow struts. (Fig. 2)
Approximately 3-4 inches.

Note: If you had to justify the bench away from a heater here, you will likely need the short stow bracket at the rear. Further, if heater is installed, install driver side bench first and then match the location for the passenger side bench.



Fig. 1



Fig. 2



Fig. 3

Initial Bench Installation

Install Stow Brackets

1. Install the stow struts onto the bench.
 - a. There is left and right stow strut. Ensure the cam strap loop (silver metal portion) is facing away from the bench.
2. Deploy the bench to the deployed position and attach the stow struts to the secondary ball joint. (Fig. 1)
 - a. If it does not sit at 90 degrees, you may have to adjust the ball stud location or the bench face height.
3. Fold the bench up to get a feel for where the stow brackets will need to be located.
4. Install the stow brackets as shown. (Fig. 2)
 - a. Ideally the bench should sit vertically when in the stow position.
 - b. On an M1L there are two vertical T-track options. Use whichever lets the bench stow vertically and the stow struts reach.
 - c. Torque all mounting bolts to 12 ft-lbs.

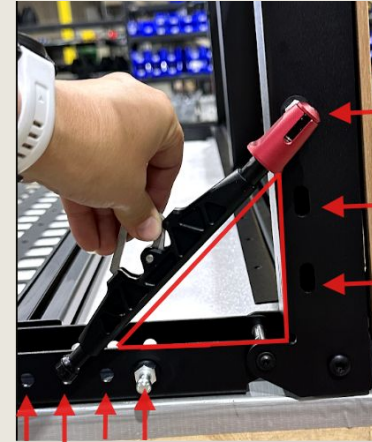


Fig. 1

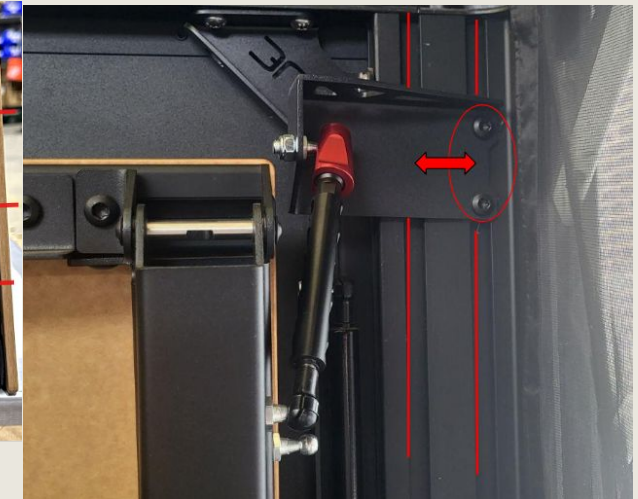


Fig. 2



Fig. 3

M1L Left Stow

M1L Right Stow

Initial Bench Installation

Final Torque and Tie Down Straps

1. Torque all mounting bolts to 12 ft-lb. (Fig. 1)
 - a. This includes the bench base hammer nuts from and the stow bracket hardware.
2. Install the bench tie down cam straps IN.VI.AY.WS.CBAE.1450.L and .R from the stow strut to the truck's D ring. (Fig. 2)
 - a. Ensure the Tune logo is facing up. There is a left and a right version — check before you fasten.



Fig. 1



Fig. 2

Stowing the Bench ([watch video](#))

1. Locate the stow struts on either side of the bench.
 - a. NOTE: Club benches only have one stow strut.
2. Pull down gently on the red collet on the stow strut (Fig. 1) to release from the the ball stud mounted to the bench top frame. Repeat on the other side for full benches.
3. Lift the bench top frame upwards from a horizontal to vertical position. The bench face/MOLLE panel will hinge with the bench top frame.
4. Attach the stow strut to the ball stud on the stow bracket attached to the vertical t-tracks. (Fig. 2)
5. Stretch the rubber draw latches around the red latch post posts to fully secure the bench. (Fig. 3)
6. Repeat steps 4 & 5 on the opposite end of the bench.

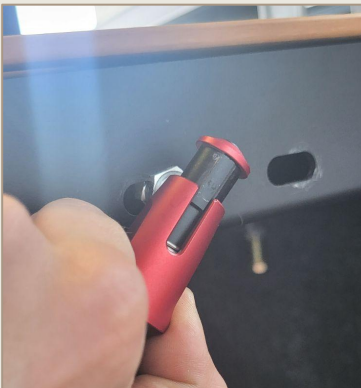


Fig. 1

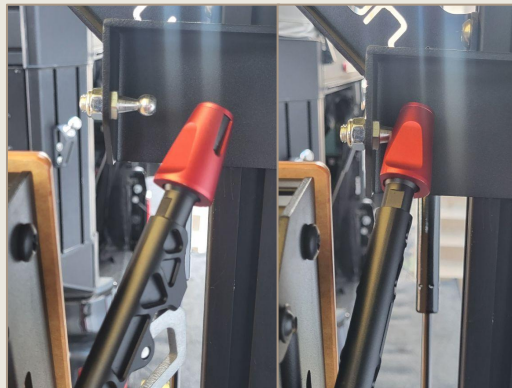


Fig. 2



Fig. 3



Support the bench as you lift.
Do not let it swing free between
the two ball studs.

Deploying the Bench ([watch video](#))

1. Unhook the rubber draw latches from the red clamp posts.
2. Pull down gently on the red collet to release each stow strut from the stow bracket ball stud.
3. Lower the bench, supporting it as it comes down, then reattach each stow strut to the ball stud on the bench.

ⓘ Support the bench as you lower. Do not let it drop freely.



Securing the Bench for Transit in the Deployed Position

1. Make sure the stow struts are secured to both ball studs on the bench, on both sides.
2. Run the supplied cam strap through the stow strut.
3. Locate your truck's D ring, then loop the cam strap through it and tighten.
 - a. It is important to do this before every drive, not only after you have had the bench down.

⚠ A bench that is not properly strapped can shift while braking. Check the straps every time, not just after you have had the bench down.



Accessing the under bench storage area

Each lid is held open by gas struts. Let the struts take the weight rather than holding the lid yourself.

Push the lid down until the slam latches click to close it. Do not slam it — let the latch do the work.

If you run a cooler, secure it with the cooler tie-down straps.



Richlite Bench Top Care & Cleaning

Bench Lids are made of Richlite, a durable, high-quality material.

The surface can be damaged if used as a cutting surface.

Wipe up standing water rather than letting it sit on the surface.

Use warm water and sponge/towel for daily cleaning. Mild soap can be used if needed. Do not use abrasive cleaners or solvents.

See the [Richlite Care & Maintenance Guide](#) for approved products and finish maintenance.

The Richlite Bench Lid can withstand heat up to 350F (176C). However, we do not recommend placing objects directly on the surface.

Before Uninstalling the Bench

1. Remove all cam straps.
2. If the bench is stowed, unfold it into the deployed position and confirm both stow struts are attached to the associated ball studs.
3. Clear the bench top and close both lids.

ⓘ Never remove mounting bolts from a stowed bench. Unfold it first so the struts are not carrying load.

Uninstalling the Bench

1. Ensure the bench is in the deployed position.
 - a. If the bench is in the stowed position, move it to the deployed position and ensure that the stow struts are engaged.
2. Clear the bench top and the storage area underneath.
3. Remove the mounting bolts and their associated hammer nuts using a T-40. A full-length bench has 6 bolts; the Club bench has 4.
4. Remove the stow brackets if you want to.
5. Once the bench is free of the base profile, pull it away from the bed wall.
6. Fold the bench and latch it closed on both sides.



Storing an Uninstalled Bench

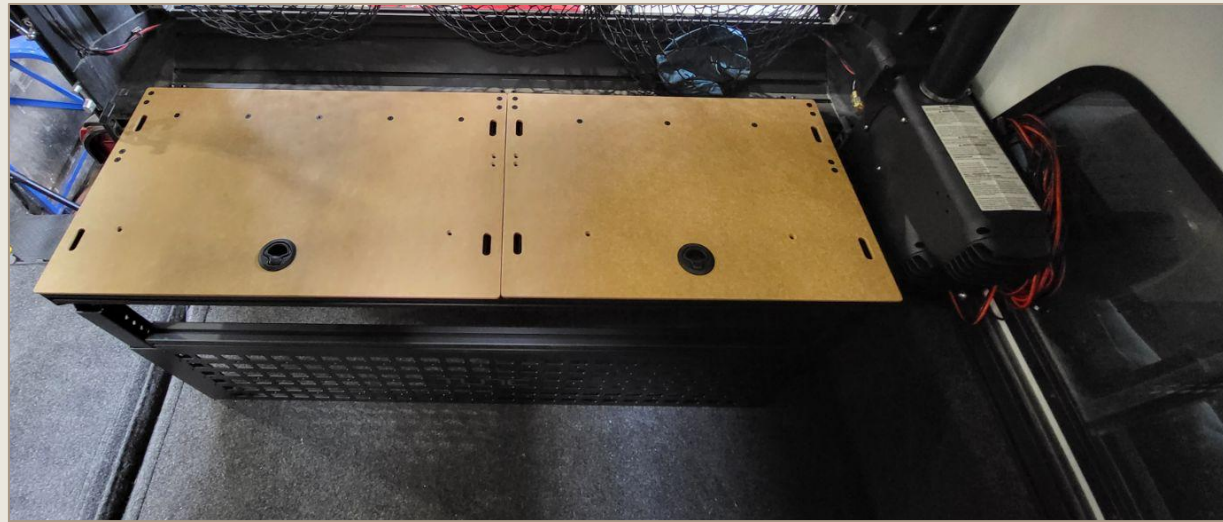
Set the bench down onto a soft surface like a blanket, foam, or plywood to avoid scratches. It will be most balanced by placing it directly onto the durable richlite countertop surface.

How to Reinstall Your Bench

1. Center the bench on the base profile: measure the distance between the camper profiles, subtract the width of the bench top, and divide by two. That is the gap on each side.
2. Lightly thread the hammer nuts with a T-40 driver. Leave them loose until the last step.
3. If your truck has a driver-side heater, the bench may sit off center. Leave roughly 3–4 in between the bench and the heater so the stow struts can operate.



Gap measurement



Bench installed off center for heater clearance

Troubleshooting Guide

Quick Diagnostic

Symptom	Most Likely Cause	Go To
Bench will not sit at 90°	Ball stud position or face height	Bench Will Not Sit Square
Bench will not clamp shut squarely	Face height out of parallel	Bench Will Not Sit Square
Bench rattles while driving	Hardware backed off, or straps loose	Rattle or Movement
Bench moves along the bed	Hammer nuts loose in the T-track	Rattle or Movement
Lid drops or will not stay open	Gas strut failure	Lid Faults
Lid will not latch shut	Slam latch fault or misalignment	Lid Faults

Bench Will Not Sit Square

1. Deploy the bench and check whether it reaches 90° on its own, or stops short on one side.
2. Measure the bench face height on both sides. They should be identical — a bench out of parallel will not clamp squarely.
3. Check whether both stow struts are seated on their ball studs.
4. Fold the bench up and check whether the clamp and clamp post line up before the latches are closed.
5. Do not force the bench square with the stow strut. If it will not sit square, find the cause.

Bench Will Not Sit Square — Results

Test Result	Failure	Solution (start with A)
Sides measure differently	Face height out of parallel	A. Contact Customer Care. Height is a factory setting.
Stow strut off its ball stud	Ball socket unseated	A. Reseat the socket onto the stud. Do not disassemble the socket.
Sits at 90° but clamps crooked	Clamp post position	A. Contact Customer Care. Recheck face height first.
Will not stow fully vertical, M1L	Known M1L limitation	A. May be normal. [NEEDS MP] No acceptable angle range is specified.

Rattle or Movement

1. With the bench stowed and clamped, push firmly and watch where the movement actually starts.
2. If the whole bench slides along the bed, the fault is at the hammer nuts in the base profile T-track.
3. If the bench face moves relative to the leg, the fault is at the face height bolts.
4. Check the tie-down cam straps. Both must be fitted, correctly handed, and tight at the D rings.
5. Check the torque on every bolt you can reach without removing anything. Specs are as follows:
 - a. Mounting Hardware: 12 ft-lb
 - b. Bench Leg Bolts: 10 ft-lb

Rattle or Movement — Results

Test Result	Failure	Solution (start with A)
Bolts below 12 ft-lb	Hardware backed off in service	A. Retorque to 12 ft-lb. B. Recheck after the next trip.
Bench slides in the T-track	Hammer nuts loose	A. Retighten the hammer nuts to 12 ft-lb.
Only one strap fitted	Missing strap	A. Fit both. Note the M1 kit currently ships only one.
Straps fitted but bench moves	Straps not tensioned, or wrong side	A. Check handedness — Tune logo up — then tighten the cam buckles.
Retorques, then loosens again	Damaged thread or nylock	A. Replace the bolt and nylock as a pair.

Lid Faults

Test Result	Failure	Solution (start with A)
Lid drops when released	Gas strut failure	A. Replace the gas strut. Replace in pairs.
Lid opens but feels heavy	Gas strut weakening	A. Monitor. B. Replace in pairs when it will no longer hold.
Latch will not engage	Slam latch misaligned in the Richlite	A. Contact Customer Care. Do not overtighten latch screws.
Latch engages but lid sits proud	Stiffener or latch position	A. Contact Customer Care.

What Not to Do

Do not disassemble the snap-on ball socket on the stow strut.

Do not overtighten the slam latch screws — the latch body is plastic and will strip.

⚠ If the fix is not on this page, it is a Customer Care job. Forcing a bench square damages the powder coat at best.

Getting Help

For replacement parts, warranty questions, or anything this guide does not cover, contact Tune Outdoor Customer Care.

APPENDIX A - Bench Height Measurement by Vehicle

Toyota	Model Year	Bed Length	M1L (cm)	M1L (in)
Tacoma	2005-2023	5' & 6'	14.5	5.7
	2024-Present	5' & 6'	18.2	7.2
Tundra	2007-2021	5.5' & 6.5'	23.1	9.1
	2022-Present	5.5' & 6.5'	19.9	7.8

Ford	Model Year	Bed Length	M1L (cm)	M1L (in)
Ranger	2019-2023	6'	20.39	8.0
F-150	1997-2003	5.5'	16.74	6.6
	1997-2003	6.5'	18.33	7.2
	2004-2008	6.5'	23.09	9.1
	2009-2014	5.5' & 6.5'	21.50	8.5
	2015-2020	5.5' & 6.5'	21.50	8.5
	2021-Present	5.5' & 6.5'	21.50	8.5
F-250/F-350	1999-2007	6.75'	17.69	7.0
	2008-2016	6.75'	17.06	6.7
	2017-2022	6.75'	20.39	8.0
	2023-Present	6.75'	20.23	8.0

Dodge	Model Year	Bed Length	M1L (cm)	M1L (in)
Dakota	1997-2004	5.5'	11.34	2
	2005-2011	6.5'	11.98	15
Ram 1500	2002-2008	6.5'	17.69	6
	2009-2018	5.7' & 6.5'	21.98	10
	2019-Present	5.7' & 6.5'	21.98	10
Ram 2500/3500	2003-2009	6.5'	17.69	6
	2010-2018	5.7' & 6.5'	21.98	10
	2019-Present	5.7' & 6.5'	21.98	10

Jeep	Model Year	Bed Length	M1L (cm)	M1L (in)
Gladiator	2020-Present	5'	11.34	4.5

Nissan	Model Year	Bed Length	M1L (cm)	M1L (in)
Frontier	2005-2021	6'	11.98	15
	2022-Present	6'	17.06	14
Titan	2004-2015	5.5'	17.69	6
	2016-2024	5.5' & 6.5'	20.23	4

APPENDIX A - Bench Height Measurement by Vehicle

Chevy	Model Year	Bed Length	M1L (cm)	M1L (in)
Silverado 1500	1999-2006	6.5'	16.10	6.3
	2007-2013	5.5' & 6.5'	24.04	9.5
	2014-2018	5.5' & 6.5'	24.04	9.5
	2019-Present	5.5'	23.72	9.3
	2019-Present	6.5'	24.04	9.5
Silverado 2500/3500	1999-2006	6.75'	15.79	6.2
	2007-2014	6.75'	19.91	7.8
	2015-2019	6.75'	20.55	8.1
	2020-Present	6.75'	20.23	8.0

GMC	Model Year	Bed Length	M1L (cm)	M1L (in)
Sierra 1500	1999-2006	6.5'	16.10	6.3
	2007-2013	5.5' & 6.5'	24.04	9.5
	2014-2018	5.5' & 6.5'	24.04	9.5
	2019-Present	5.5'	23.72	9.3
	2019-Present	6.5'	24.04	9.5
Sierra 2500/3500	1999-2006	6.75'	15.79	6.2
	2007-2014	6.75'	19.91	7.8
	2015-2019	6.75'	20.55	8.1
	2020-Present	6.75'	20.23	8.0