



STEP 1 - PREP — Before Every Trip

- Check battery fuel gauge before every trip. If one bar is showing replace with fully charged battery.
- **Verify battery is firmly seated and thumbscrews are tight before use.**
 - When Thumb screws are hand tight, tighten with a quarter or short screwdriver about one more turn. There is a soft rubber washer that locks the screw in place.
 - If not tightened fully, vibration and bouncing during transit can loosen a thumb screw causing loss of response while loaded.
- Inspect retaining rings (on hook and clevis) before each use.

STEP 2 - WAKE THE UNIT BY PRESSING LOOSEN

⚠ **The SS92002 enters SLEEP MODE when idle and NOT UNDER TENSION for 10 min. to conserve battery power.**

- To wake: Press the LOOSEN button once. Wait 2–3 seconds, then proceed.
- If still unresponsive, check battery seating (see Step 1).

STEP 3 - EXTEND TO CONNECT CHAIN

- Double click the LOOSEN button. Extends and stops automatically.
- Either button can be pressed to stop.





STEP 4 - ATTACH CHAINS

- Connect Swivel-Hook end to chain connected to trailer first — this lets you position the unit easily.
- Hook the extension end securely to chain on equipment/load.
- Remove all twists and slack from chain before tensioning.
- **Must have clearance all around unit and confirm no lateral forces on the unit. Make sure battery will not contact any hard surfaces while in transit.**

STEP 5 - TIGHTEN CHAINS

- Press and hold TIGHTEN button. Chain reaches working tension in ~10 seconds. Unit stops automatically at factory-set tension level.
- Hands-free option: Double-click TIGHTEN. Unit tensions to snug level automatically — check chain position on equipment, then press and hold TIGHTEN to final tension.

LED STATUS INDICATORS

INDICATOR	MEANING / ACTION
 SOLID GREEN	At factory-set TENSION level. Secure.
 GREEN blinking every 5 sec (heartbeat)	Dynamic Tension Control is ACTIVE — unit is monitoring and retightening at set intervals. Faster FMCSA 392.9(b) tension checks.
 YELLOW	Low tension — press and hold TIGHTEN until GREEN. Blinks for 2 sec. at full extension and full retraction
 GREEN + YELLOW BLINKING	Unit is at full stroke & cannot tighten further. Fix: Double-click LOOSEN to fully extend. Re-set chain and re-TIGHTEN.

STEP 6 - LOCK / UNLOCK to PREVENT Button Tampering

- To LOCK the Buttons: Press and hold the TIGHTEN and LOOSEN buttons simultaneously until the GREEN LED flashes (~4 sec). Unit is now locked.
- To UNLOCK the Buttons: press and hold both buttons simultaneously until the GREEN LED flashes. Unlocked.
- While locked, pressing either button will cause the YELLOW LED to blink, indicating the unit is locked and will not respond.

STEP 7 - DYNAMIC TENSION CONTROL keeps chains tightened automatically in transit

- Dynamic Tension Control is active when the LED blinks Green (heartbeat) every 5 seconds. When active, chain tension is being checked automatically at set intervals by software algorithms to ensure chains remain tight during a delivery.
- For required chain inspections at 50 miles and every 3 hours, or change of driver: confirm GREEN LED (heartbeat) is active. Check chain tension. (49 CFR 392.9(b))

STEP 8 - LOOSEN CHAINS ⚠ Stand clear of chain path while loosening.

- Double-click the LOOSEN button. The unit loosens automatically and stops at full extension, yellow LED blinks. Unhook chain.

STEP 9 - CLOSE FOR STORAGE

- Double-click the TIGHTEN button. The unit retracts and closes automatically and stops. When fully retracted Yellow LED blinks. Place in storage.
- Can be used in all weather conditions (0°F-149°F). Store in dry location on truck or trailer when not in use.

Always Use Safely

- ! **Inspect unit, chain, hooks and retaining rings before every use.**
- ! **Never exceed Working Load Limit (WLL): 9,200 lb.**
- ! **Stay clear during tensioning and release — keep others clear too.**
- ! **NOT for overhead lifting.**
- ! **Re-check battery seating after rough roads or extended vibration.**

QUICK TROUBLESHOOTING

SYMPTOM	LIKELY CAUSE & ACTION
No response to any button	Unit in sleep mode → Press LOOSEN once to wake. If still no response, remove and firmly reseal battery. If blinking yellow, unit in LOCK mode. Unlock per STEP 6.
Unresponsive while under load / after transit	Battery may have vibrated loose. Press LOOSEN to wake. If no response, remove and firmly reseal battery before continuing. If no response, remove all other units, move equipment, unhook chain and return unit to service center for repair.
GREEN + YELLOW blinking	At full tighten stroke. Double-click LOOSEN to fully extend, reset chain, then re-TIGHTEN.
Yellow indicator en route	Chain lost tension. Reset chain as needed. Press and hold TIGHTEN until SOLID GREEN returns.

COMPLIANCE & SPECS

- ✓ Meets FMCSA 49 CFR 393.102 Tie-down Strength Requirements (WLL)
- ✓ Conforms to FMCSA 49 CFR 393.100–114 Cargo Securement Requirements
- ✓ Designed to make FMCSA 49 CFR 392.9(b) checks safer and faster
- ✓ WLL: 9,200 lb. | Minimum Breaking Strength: 36,800 lb.
- ✓ Battery: Use B28850 28.8V 5.0Ah Li-Ion Battery Pack only.
- ✓ Chain: 3/8" or 1/2" Grade 70 Transport Chains

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