



Technical Bulletin

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Recoil Install for Clamshell Inverters

This covers the following models (Read completely before performing service):

- 100306
- 100414
- 100402
- 100565
- All other Clamshell-Style Inverters

1. Unscrew total (8) screws of left and right cover assembly, and then remove left and right cover assembly. (Note: there are two tapping screws at the bottom of right panel side – remove them)



2. Unscrew all screws and bolts of front cover/ rear cover. Remove the snap spring under the fuel spill rubber. Then remove the rear cover and the illuminator.



3. Pull out the fuel hose from the fuel switch and remove the fuel tank. (If the unit has fuel level sensor, unplug the connector of the sensor).



4. Unscrew the screws to remove the right cover. Unscrew the screws of handle oriented plate and have the recoil handle through the front cover.



5. Pull out the fuel hose from the carburetor inlet nozzle to have front cover move freely.



6. Unscrew the (2) bolts of metal bracket. And unplug the connectors of right panel and controller module. Remove the right panel assembly and whole metal bracket with the controller module.



7. Unscrew the bolts of the recoil cover and remove the recoil assembly



8. Put the new spring into the pulley if need to replace a new spring.



9. Put the new rope into the pulley and secure with a stop-knot. And then rotate the rope clockwise [spring side towards to you] (about 3.5 turns) until the rope aligns with the open slot on the outer edge of the pulley.



10. Apply lubricant or grease to the shaft of the recoil cover and insert the pulley to the recoil cover.



11. Pull the rope into the slot and take the loose part of the rope inside the pulley and rotate the pulley about 3 turns [counter-clockwise] until the tension spring resists. Hold the pulley from reversing until the rope is ready to wind back onto the pulley. Feed the rope out to the hole of recoil cover and pull it through the guide hole on the outside of the recoil cover. Place the guide plate / pull handle on the rope and secure with a stop-knot.



12. Place the (2) detent springs as shown



13. Place 2 plastic detents into the spring positions with some lubricant. Note the detents must press the springs when installing.



14. Install the hoop onto the plastic press plate, and then put the plastic press plate onto the plastic detents. **Note: the salient of detents must snap into the guide slot of press plate.**



15. The bolt can have some locking glue, put the bolt into the through-hole of press plate and tighten the bolt.



16. Secure a stop-knot at the end of the new recoil cover end.



17. Pull rope out for some length and secure a stop-knot, and then disassemble the oriented plate from old recoil assembly and install it to the new one.



18. Re-install the recoil assembly with tightening the bolts. Have the recoil handle and oriented plate through the front cover. And then install the oriented plate to the panel and tighten the screws.



19. Re-install the metal bracket and plug all connectors.



20. Re-install the fuel tank. Remember to plug the fuel hoses to fuel switch side and carburetor inlet nozzle side.



21. Re-Install front cover, rear cover and illuminator and tighten the screws and bolts. Don't forget the tapping screws at the bottom and the snap spring.



22. Re-install the left cover and right cover with the screws.



If you have any questions regarding the previous procedure, please contact our technical department Monday-Friday from 8:30 AM-5:00 PM PST at 877-338-0999.

If you have any questions, please contact Champion Power Equipment:

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