



INSTALLATION INSTRUCTIONS

PART NUMBER	158-8417A
PART DESCRIPTION	CVR – NO HOUSING
REV DATE	06/20/2014
MACHINE MODELS	ION / KW MODELS



Basic knowledge of the lane machine including mechanical and electrical

TOOLS NEEDED:

Phillips Screwdriver	11/32" Wrench	5/16" Wrench
Wire Strippers	Joint Crimpers	Dykes
Drill	Drill Bit 11/64	Scribe

PARTS INCLUDED:

(1) 158-8417A Current Voltage Regulator (1) 154-8133C 18 AMP Pin Adapter
 (3) 153-1037 Wire Joint

Please thoroughly read the instructions prior to performing the installation of this assembly. To avoid any potential problems, if at any time during the process you have a question, stop and contact our Tech Support department at the numbers listed below



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Kegel's Lane Maintenance Central:
Within USA - 1-800-280-2695
Outside USA - +1 863-734-0200
 via e-mail at LMC@Kegel.net
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THE BELOW INSTRUCTIONS ARE WRITTEN FOR MODELS THAT CURRENTLY HAVE THE CVR HOUSING INSTALLED

CVR Removal

1. With power removed, lay the machine down in the operating position.
2. Using a Phillips screwdriver a 5/16" wrench, remove the lid grounding strap from the inside battery charging door mounting screw. Using a screwdriver and a 11/32" wrench, remove the lid-mounting block on the left side (7-pin) of the machine. Carefully remove entire lid assembly from machine.
3. Unscrew the PC Center Plate mounting screws and tilt plate up to access the electrical compartment.
4. Remove the recovery tank assembly and locate the two CVR mounting screws. Loosen and remove the two CVR mounting screws along with the CVR from the machine. Save the hardware for later use.

Drilling new mounting hole

5. From ***inside the cleaning compartment*** of the machine, use the new CVR as a template and insert one of the screws into the bottom hole of the new CVR.
6. With the screw inserted through the bottom hole of the CVR, push it through the location of the bottom hole of the old CVR located on the frame panel.
7. Use a scribe and make a mark on the frame for the drilling of a new hole for the top mounting screw for the CVR assembly.
8. Take the CVR back out of the machine. Using the 11/64 drill bit, drill a hole where you marked the frame. Clean up any metal shavings that might have been left behind.



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CVR Installation

9. Install the new CVR inside the center compartment on the frame panel so that the wires on the CVR circuit board are facing up.

NOTE: Complete step #10 ONLY if existing machine harness has a WHITE CVR 3-pin connector plug. If the existing connector plug is BLACK, skip step #6

Unplug the 154-8133C 18 AMP Pin Adapter that is plugged into the replacement CVR. Strip ½” of insulation off each adapter wire. Next, cut the machine CVR harness wires (on bottom of PC plate assy) flush to the bottom of the existing CVR harness plug. Strip ½” off each of these wires. Using the (3) 153-1037 Wire Joints supplied w/ the new CVR, crimp the adapter wires together w/ the harness wires, being careful to properly match the wire colors up.

10. Plug the adapter harness into the CVR plug.
11. Re-install the lid back onto the machine, making sure to secure the grounding strap to the left side plate. Tighten all screws completely.
12. Apply power to the machine and test machine operation for proper operation.



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