

INSTRUCTION BULLETIN

No. 340194 Machine:5700XP, 5700XPS Published: 10-2006 Rev. 02

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in the machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save the cost of ordering an entire kit.

NOTE: Numbers in parenthesis () are reference numbers for parts listed in Bill of Materials.

Installation instructions for kit number 370174

SYNOPSIS:

This kit contains the parts needed to replace the controller on the 5700 scrubber. The software has been changed so customers can control the brush down pressure settings. All current production 5700XP and XPS machines are equipped with the new software.

Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS:

When the key is first turned to the on position, all the LED lights on the touch panel should illuminate for several seconds. If any of the LED lights does not illuminate, they are either burned out or there is possibly a problem with the touch panel or ribbon cable.

The new circuit board has a restricted scrub pressure feature. The 3rd and 4th scrub pressures can be locked out to prevent the scrub brushes from becoming excessively worn. Follow Steps 1 through 3 to enable or disable this feature.

- 1. Press and hold the scrub pressure button.
- 2. Turn the key switch to the on position and continue pressing the scrub pressure button until either all the scrub pressure LED lights illuminate (showing machine is in the default mode), or only the first two LED lights illuminate (showing machine is in the restricted mode).
- 3. Release the scrub pressure button and turn the key switch to the off position to store the changes to the software memory.

(Estimated time to complete: 1 hour)

INSTALLATION: (Refer to FIG. 1)

FOR SAFETY: Before leaving or servicing machine, stop on level surface and set parking brake. Then turn off machine and remove key.

- 1. Make sure the solution tank is empty. Raise the solution tank and engage the safety arm.
- 2. Disconnect the negative battery cable from the battery connected closest to ground.

WARNING: Always disconnect battery cables from machine before working on electrical components.

3. Remove the two M8 hex screws holding the top of the plastic instrument panel to the machine electrical mount plate.

- 4. Tilt the instrument panel assembly back until it is resting against the lanyard.
- 5. Place the exposed adhesive side of the ground strap (2) firmly around wrist and attach the copper foil end to an exposed electrical ground or unpainted hardware.
- 6. Locate the electronic control circuit board under the plastic cover on the lower right side of the electrical mount plate.
- 7. Remove the four M4 hex screws (A) holding the plastic cover (B) to the electrical mount plate (C). Set the cover and M4 hex screws aside.



FIG. 1 - Control Board

- 8. On the XPS model, the smaller circuit board must be removed first.
- 9. Carefully disconnect the ribbon cables and wire harness connectors from the electronic circuit board.

ATTENTION; 5700 XP models only: The controller will be damaged if the ribbon cable removed from terminal P1 is placed on terminal P6.

NOTE: The flat connector on the ribbon cable is tightly attached to the circuit board. Use both hands to carefully pull the flat connector on the ribbon cable from the pins.

- 10. Use a small needle nose pliers to compress the tang on each circuit board clip (E) holding the board (C) to the electronic control board below it. Remove the board (C) and plastic circuit board insulator (D). Discard the plastic circuit board insulator (D).
- 11. Position the new electronic control board (1) onto the electrical mount plate. Gently push the board onto the circuit board clips

- 12. Reconnect the electronic control circuit board to the main harness.
- 13. Reinstall the smaller circuit board (XPS only).
- 14. Put a small amount of dielectric grease on the terminals of the low voltage circuit to protect it against condensation and corrosion. (part # 86385)
- 15. Reinstall the plastic cover (B) over the electronic control circuit board. Tighten the four M4 hex screws (A) to 223 290 Ncm (19 25 in lb).
- 16. Pivot the instrument panel assembly back up to the electrical mount panel. Reinstall the two M8 hex screws and hand tighten.
- NOTE: Be sure all the wires are away from the pinch points when pivoting the instrument panel back into position.
- 17. Reconnect the negative battery cable to the battery connected closest to ground.
- 18. Close the solution tank. Initialize the new board and operate the machine to check for proper operation.

TO INITIALIZE NEW BOARD

- 1. Turn the key to the "ON" position.
- 2. Push and hold the brush "DOWN PRESSURE " button until desired down pressure setting is indicated.
- 3. Initialization is complete.

***TO ACTIVATE REDUCED DOWN PRESSURE FUNCTION**

- 1. Turn the key to the "OFF" position.
- 2. Push and hold the brush "DOWN PRESSURE " button, turn the key to "ON".
- 3. Continue holding the brush down pressure button (for about 10 seconds) as the 1 & 2 pressure lights "flash" on and off, then stop flashing. Release the button.
- 4. After programming, only brush settings 1 and 2 may be selected by the operators.

*Repeat above procedure to enable all four down pressure settings.

Ref.	TENNANT Part No.	Description	Qty.
1 2	222821 27964	Control board Grounding strap	1 1

BULL OF MATERIALS FOR CONTROLLER REDLACEMENT KIT 370174

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