



**PSE18...370**



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## 1. ESD Warning

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Please note!

**The life span of electronics can be affected by damage caused by electrostatic discharge.** This can happen if a charged tool or person touches a component. Therefore it is very important that all tools and personnel are discharged by touching an earthed point before the printed circuit board or any of the components are touched. It is equally important to discharge the package with the new component before opening it.

A person walking on a carpet can be charged with up to fifteen thousand volt (15000V). Compare this with the fact that some sensitive components can be destroyed when discharged on a much lower level (about 100V). We kindly ask you to pay notice to this, as this is a vital point in order to ensure the life span of the product.

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## 2. Tools

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Small screwdriver for removing the cover and the fan.  
Torx screwdriver Tx20

### 3. Step by step

1. Before disconnecting the cables - mark them.
2. All screws with built-in conical spring washers and single conical spring washers which are removed shall be exchanged to new unused ones.



3. Disconnect all cables from the terminals 1 through 14, external keypad and the fieldbus plug accessory.

4. Disconnect the cables from 1L1, 3L2, 5L3, 2T1, 4T2, 6T3. For PSE18...105 remove the connection unit.

5. Detach the HMI module with a small screwdriver.

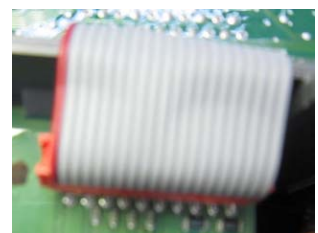


6. Discharge the tools and yourself by touching earth (if you are not earthed).

7. Disconnect the gate cables from the main-board.



8. Disconnect the ribbon cable from the sub-board.



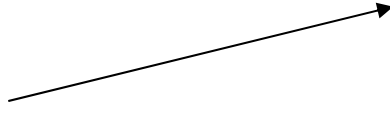
9. For PSE210...370 disconnect also the other cables between the main-board and the sub-board.



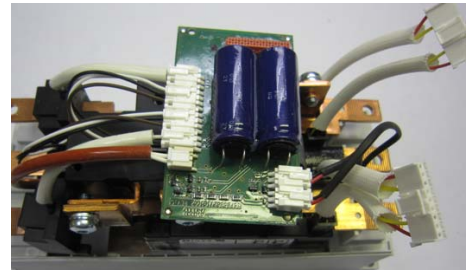
10. Remove the HMI module.



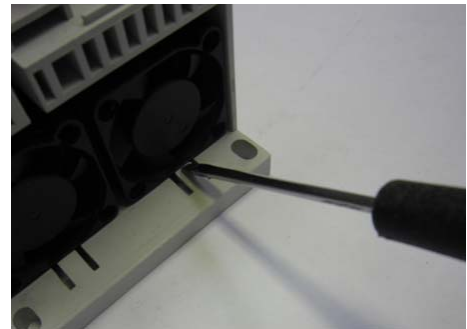
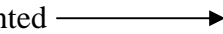
11. Remove the middle part (4-6 screws).



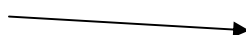
12. Disconnect the sub board from the middle part. Don't remove the cables.



13. Remove the broken fan. The fans are mounted with snaps.



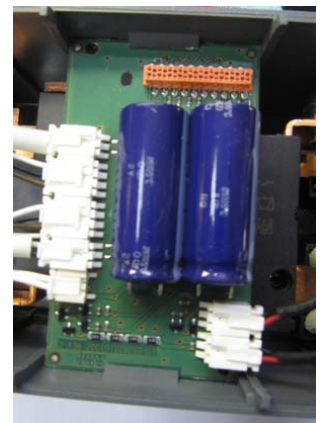
14. Disconnect the fan cable from the sub board.



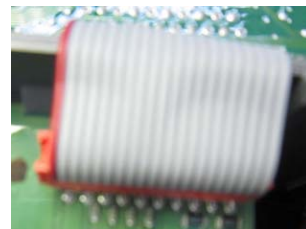
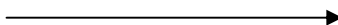
15. Put the new fan in place and connect the cable to the sub board.

16. Mount the middle part (4-6 screws).

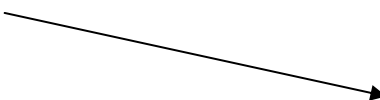
17. Mount the sub-board into the middle part



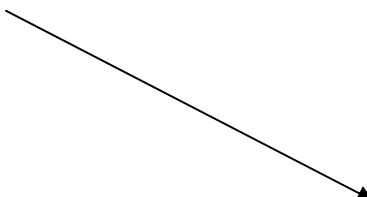
18. Connect the ribbon cable on the sub-board.



19. Connect the gate cables on the main board

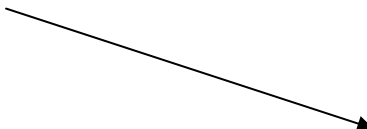


20. For PSE210...370 connect the cable between the main board and the sub board.



21. Mount the HMI module.

22. For PSE18...105 mount the connection unit.



23. Connect the cables to 1L1, 3L2, 5L3 (main voltage) and 2T1, 4T2, 6T3 (motor connection).

24. Connect all the cables to the terminals 1 through 14, external keypad and the fieldbus plug accessory.

**Ready for start!!**



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