

**SERVICE BULLETIN 126**

September 27, 2005

Use the "Current Product Manual" for later software version releases. To view/print the current product manuals, please refer to our website at www.thomsontechnology.com

INSTRUCTIONS FOR REPLACING TSC800 TRANSFER SWITCH CONTROLLERS EEPROM SOFTWARE CHIP

1. Place the Generator in "OFF" to ensure it does not start.
Note: In the event of a utility power failure during software upgrade the system can be manually operated to restore the load bus. This requires starting the generator by placing it's Engine Controls in "Manual Run" and the ATS mechanism manually operated to the emergency source position (with the Power Isolation Plug disconnected).
2. Disconnect all power sources prior to pulling the Power Isolation Plug (Refer to Figure 3). For Service Entrance rated ATs the rotary disconnect switch can be used to isolate the utility power supply and sensing (Refer to Figure 4). Facility power can be restored through the transfer switch to power the load bus during the chip change but only after the Isolation Plug is pulled (the EEPROM can not be removed or installed with AC power to the controller).
3. Remove the rear cover of the TSC800 Controller to gain access to the EEPROM Chip (Refer to Figure 1).
4. Note location and orientation of EEPROM chip by determining the location of the "Identifier Dot" on the outside edge of the chip. (Refer to \triangle Figure 2.)
5. Using the supplied chip puller remove the EEPROM chip. Insert the prongs of the puller diagonally into the socket slots. Squeeze the puller together until the chip pops out. **DO NOT PULL, PRY, TWIST OR FORCE THE CHIP OUT OF THE SOCKET! THE TOOL IS DESIGNED TO DO THE WORK FOR YOU!**
6. Place the replacement chip over the socket in the same orientation as noted in Item No. 4. The EEPROM chip will sit level in the socket when properly/squarely inserted. Using thumb/finger pressure only, press on the center of the chip until it snaps into the socket and is level, ensuring complete connection with all pins. Take care not to press the chip in at an angle. If this occurs, do not force the chip level. Instead use the puller to carefully remove the chip and try again. NOTE: Practice a few times with the old chip if necessary before installing the new chip. Damage can result from improper installation.

7. Replace the rear cover.
8. Reconnect the Power Isolation Plug.
9. Reapply power to the ATS.
10. Confirm the TSC800 is operational (Watch Dog LED on rear of circuit board is flashing). Incorrect EEPROM installation will result in none operation.
11. Confirm the TSC800 considers the Utility Supply Normal and no Engine Start is issued (Engine Start LED on the rear of the circuit board is OFF)
12. Review/confirm the TSC800 program data to be correct for the installation.
13. Return the Engine Controller to Auto.
14. Operate the system through all modes of operation to confirm proper operation.

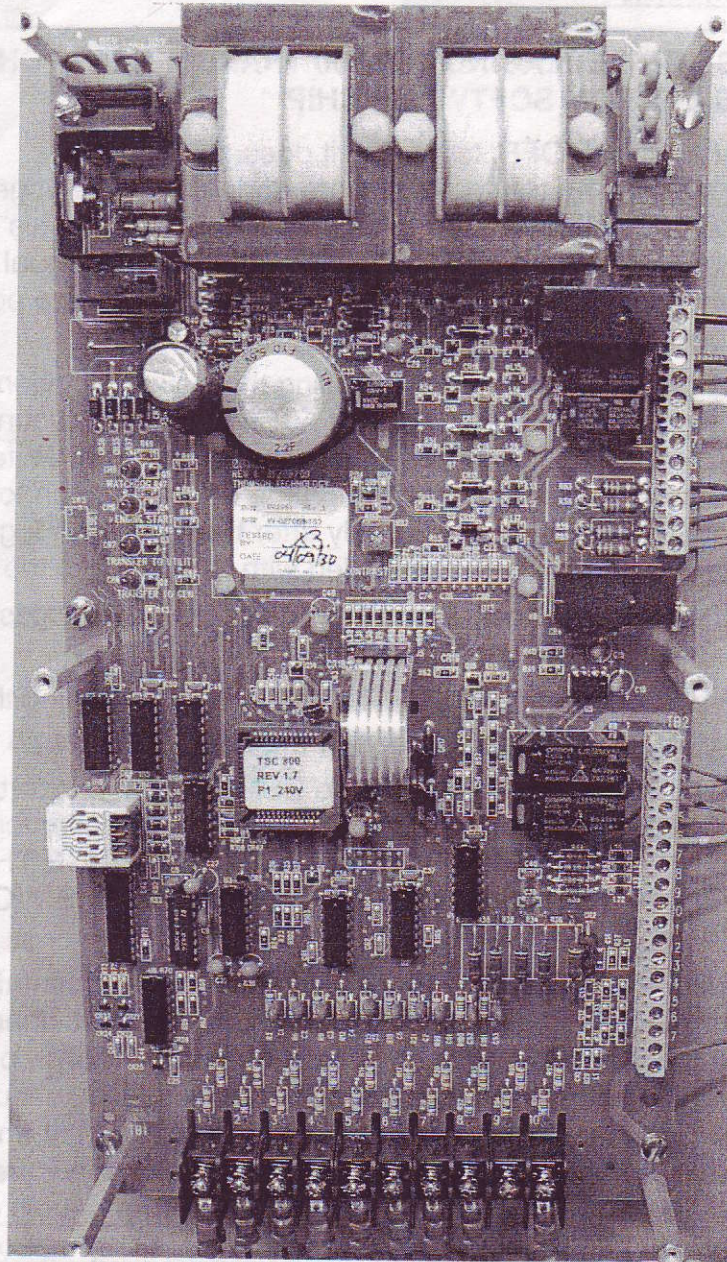
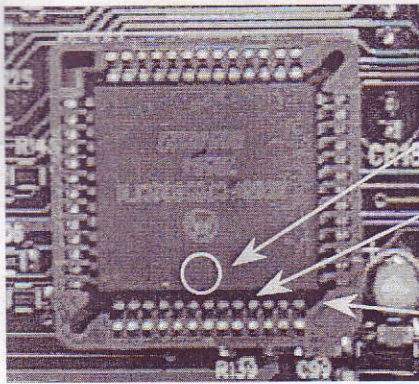


Figure 1



EEPROM Orientation Dot

EEPROM edge Beveled, with IC removed an arrow in the socket will point down to indicate Orientation Dot Alignment Point

Socket & EEPROM have corners keyed with a 45° angle

Figure 2

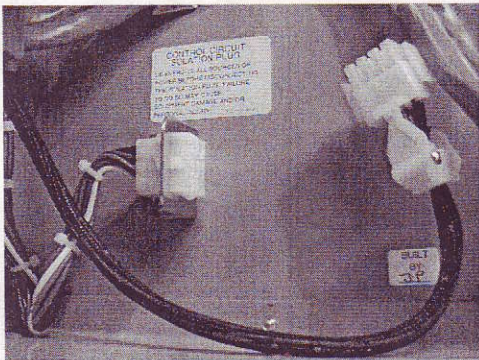


Figure 3

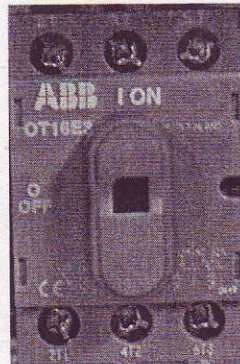


Figure 4

Should additional technical support be required, please feel free to contact Thomson Technology Service at 1-604-888-0110, press 0 for the operator and request technical assistance or contact us through our website at: <mailto:info@thomsontechnology.com>