

Note No.	SVC-FSB-0022 Rev A
Release Date	02/16/2015
Contact	ngceoservice@ngc.com

TEC Communications Crystal Replacement

Summary

Two 5R6-901 TEC controllers were returned to their manufacturer, Oven Industries, for repair. Both exhibited communications errors on the eDrive, code 0806. Oven Industries indicated both failures were the result of defective crystals that set the operating frequency of the communication link to the eDrive. Replacing the crystal restored the controllers to normal operation. This service bulletin describes the steps needed to replace the crystal.

Scope

This technical note applies to all 5R6-901 internal TEC controllers used in 4U eDrives.

Special Information

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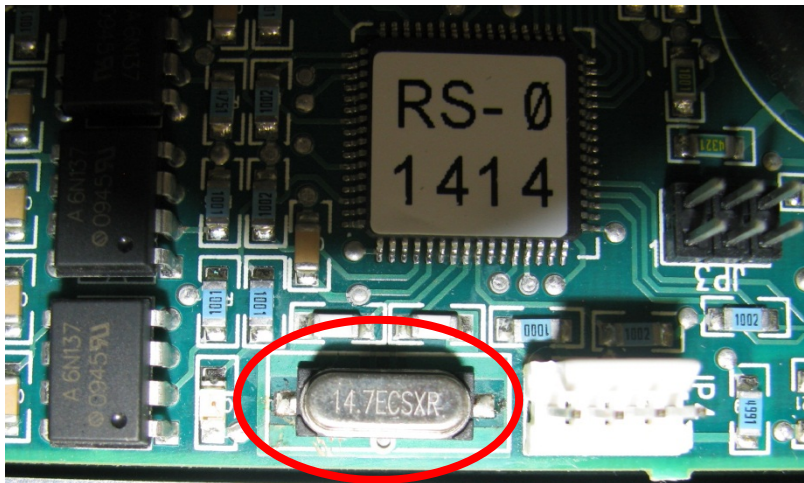


WARNING NG CEO recommends that a qualified service technician perform the following service procedure to avoid any damage.

Communications Crystal Replacement

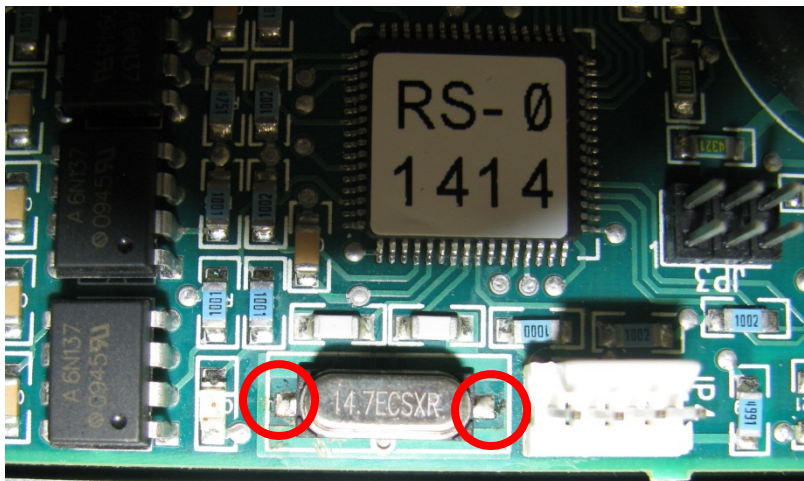
1. Follow the Communications Crystal Replacement instructions below. The replacement Communications Crystal is part number ECS-147.4-20-5PX-TR.
2. Reinstall the TEC circuit card in the eDrive, if needed, and verify that the error code 0806 clears.

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1. Locate the Communications Crystal

The Communications Crystal is a silver-colored can marked "14.7ECSXR" near the edge of circuit card.



2. Remove Defective Crystal

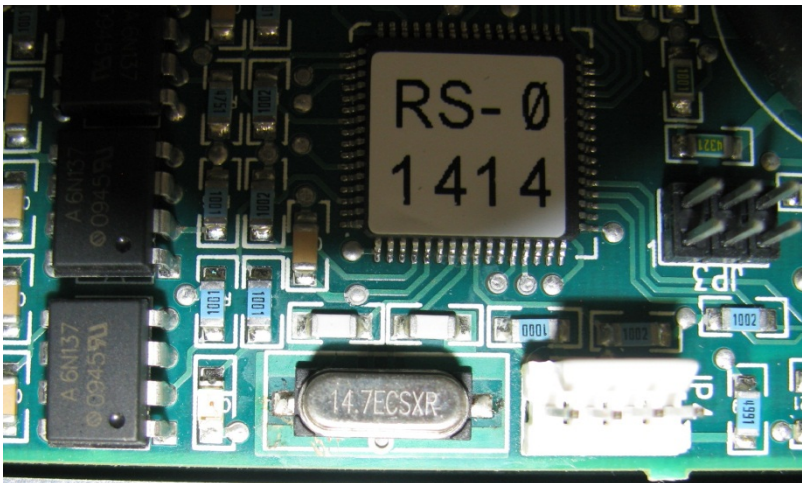
Remove the crystal from the circuit card with a soldering iron. Heat the tabs soldered onto circuit card at either end of the crystal body. Take care not to damage any surrounding components.



3. Clean Solder Pads

Remove any excess solder on the circuit card pads prior to installing the new crystal.

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4. Install New Crystal

Use a soldering iron to solder tabs at both ends of the new crystal. Clean the assembly to remove residual flux and air dry. For circuit repairs Flux-Off Brush Clean is the recommended solvent.