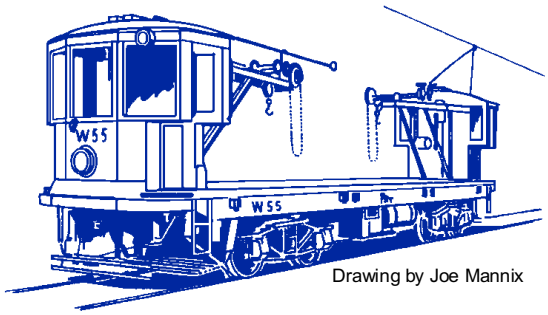


Drawing by Joe Mannix

Module Building Techniques
Module Legs & Overhead Wire

Gary Reighn

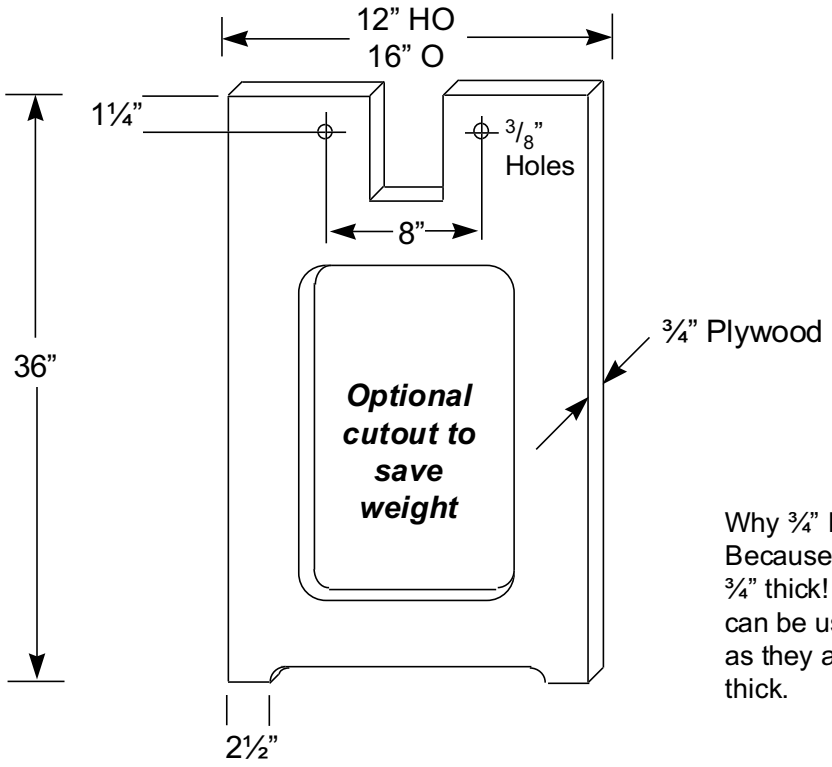
East Penn Traction Club

May 1995

The following drawings were taken from a presentation made by Gary Reighn at the 1995 East Penn Trolley Meet. The presentation was one in a series on new techniques and tips for building trolley modules as defined by the East Penn Traction Club's module standards. These drawings provide additional material or clarification of material described in the standards and are, for the most part, self explanatory. The standards should be referenced when viewing these drawings and to obtain detailed technical specifications. To obtain a copy of the standards, visit the East Penn Traction Club web site at: http://www.eastpenn.org.

Gary Reighn
East Penn Traction Club
Philadelphia, PA, USA

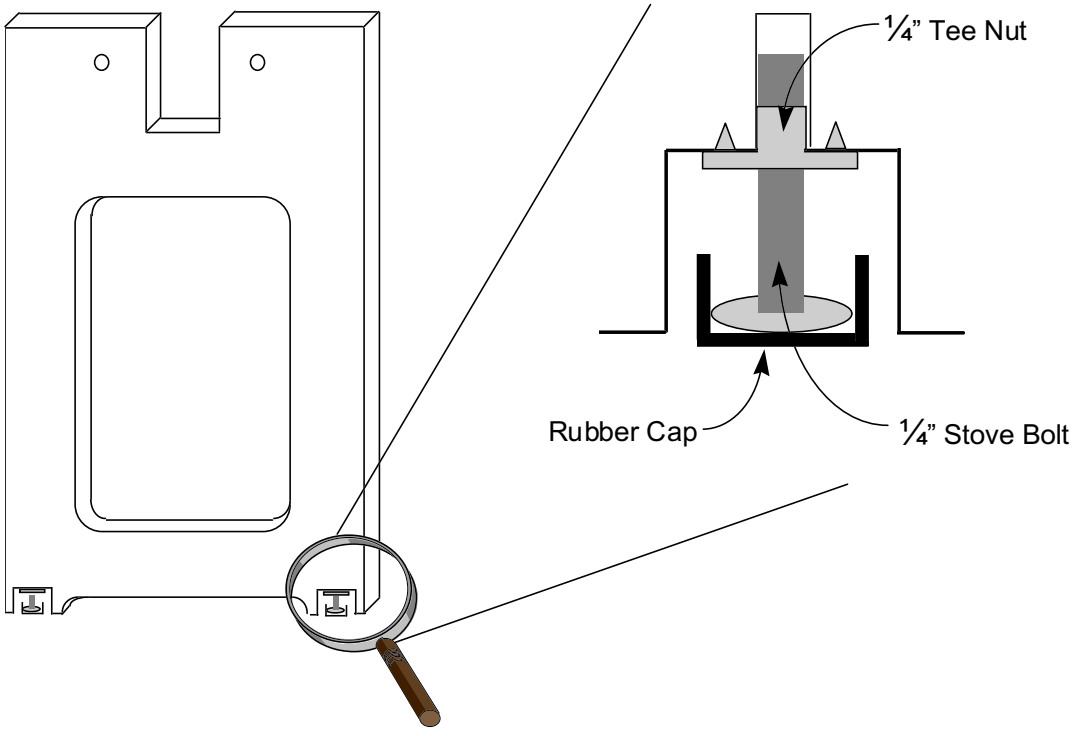
Standard Module Legs



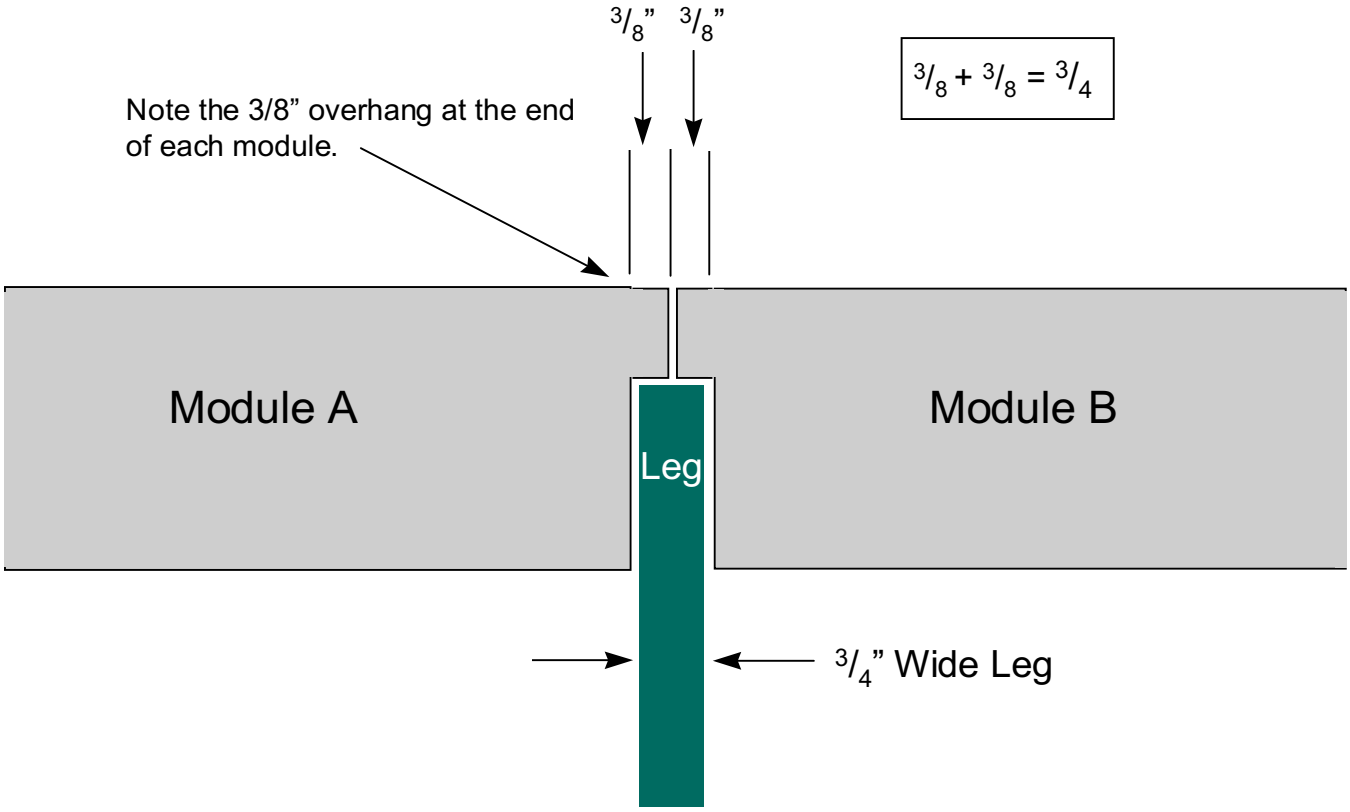
Why ¾” Plywood? Because it is exactly ¾” thick! Other woods can be used as long as they are exactly ¾” thick.

Optional Leg Levelers

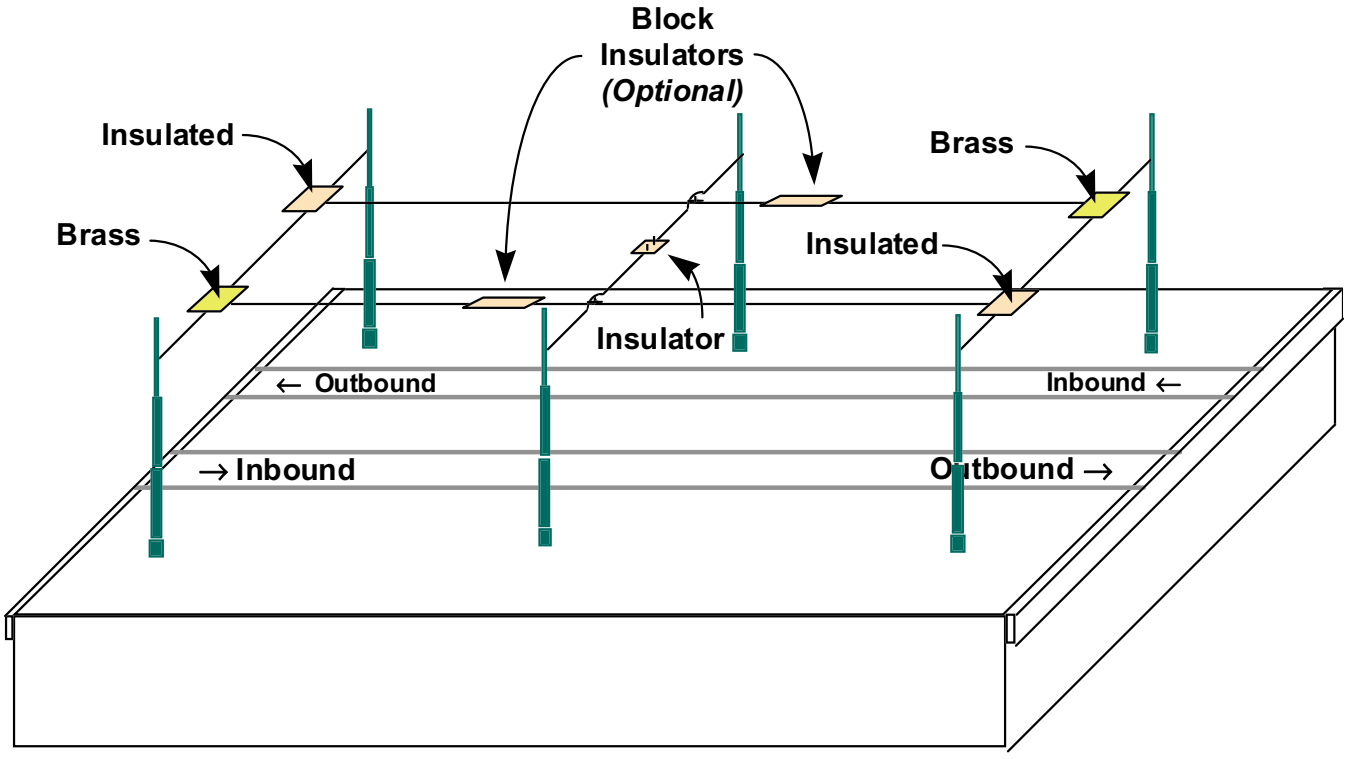
(Design by Bob Dietrich)



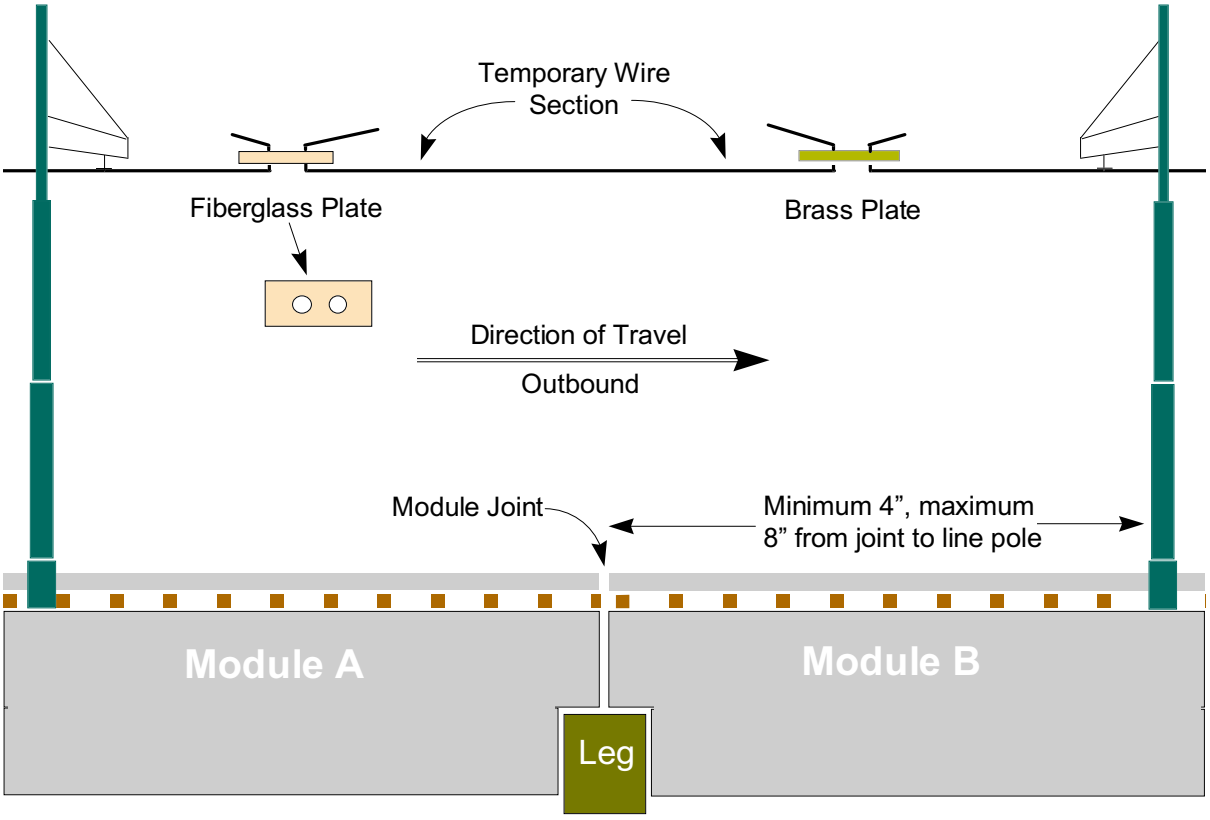
Module Joint Detail

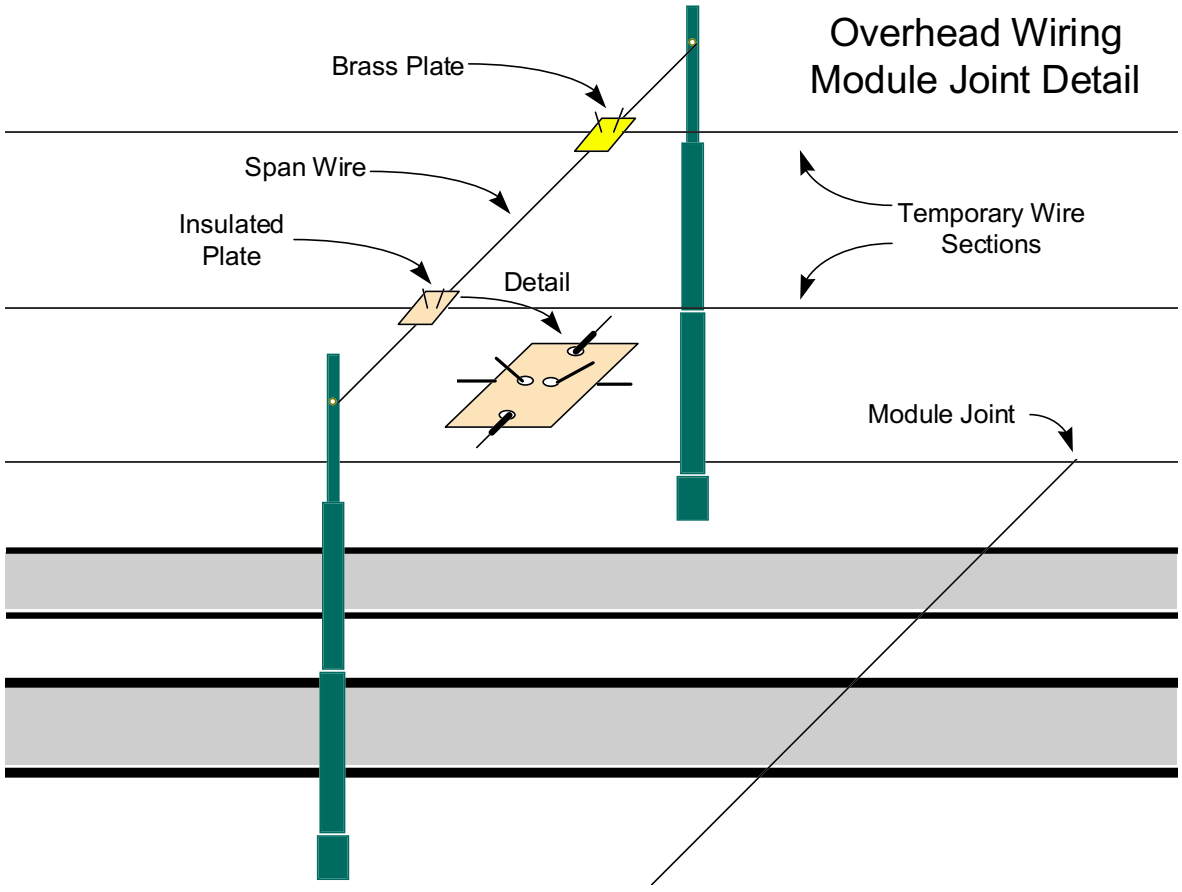


Typical Module Overhead



Overhead Wiring - Module Joint Detail

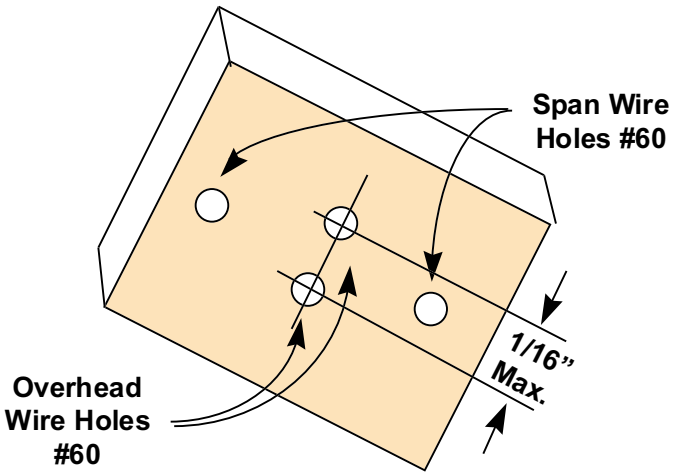




Overhead Connectors

Span Wire Connector

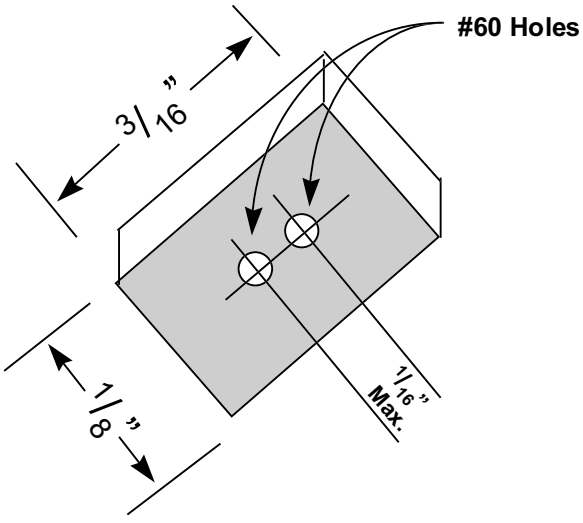
(Used at Module Interfaces)



Breadboard or Fiberglass
Material for Insulated;
.025 Brass for Non-insulated

Remember: Insulated connector on the outbound track;
Non-insulated connector on the inbound track.

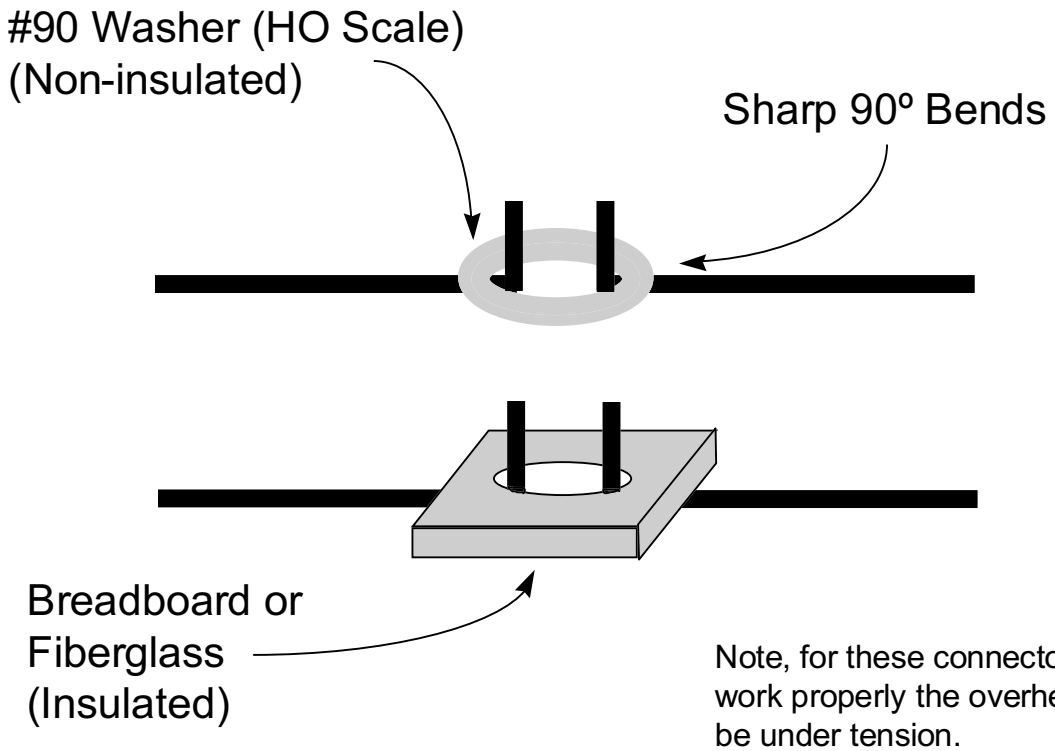
Simple Overhead Connector



Breadboard or Fiberglass
Material for Insulated;
.025 Brass for Non-insulated

Note: The non-insulated version of this connector is used to insulate span wires when they bridge overhead sections or to isolate overhead sections for block control.

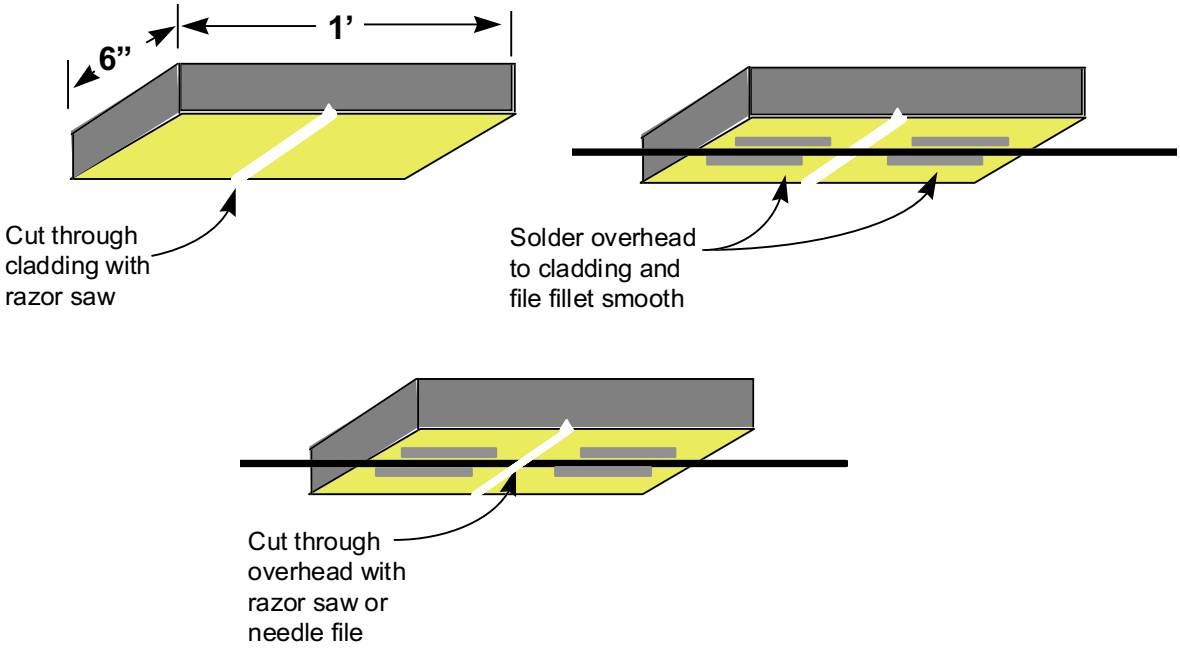
Other Overhead Connectors



Note, for these connectors to work properly the overhead must be under tension.

Trouble-Free Block Insulators

(Design by Gary Reighn)



Use Copper Clad Printed Circuit Board Material

For more information on these insulators, refer to the article written by Bob Dietrich and posted on the East Penn Web Site.