G-Scale Graphics RailBoss 4 Plus R/C is the only system (that we know of) designed specifically to control two Phoenix Remote Couplers, without the need for the Phoenix Remote-Coupler Control board. If you just try to "Simply energize the solenoid", it can be damaged quite easily.

Open this coupler anywhere



ith today's advanced electronic controls (DCC, battery R/C, etc.), it's becoming more common to use available auxiliary function commands to control various aspects of our trains heretofore left alone. We can add prototypical lights, smoke, sound, and, more recently, remote-controlled uncouplers.

Phoenix Sound has just released a circuit board for remotely controlling couplers (see review above), and they have introduced their own remote-controlled coupler that plugs into that board.

The Phoenix coupler is a knuckle-style coupler, on par in size with the Kadee "G" scale coupler. The coupler is 3D printed in nylon. The coupler itself (exclusive of the shank) measures 11/16" wide x 1/2" tall x 3/4" long. A solenoid is neatly attached to the bottom of the coupler. My review sample was dark blue, but that's nothing a can of paint can't fix. It operates like a prototypical coupler, in that there's a knuckle that opens to allow the coupler to connect and disconnect from other cars. In the case of this coupler, the knuckle is spring loaded

VITAL STATISTICS

Remote-controlled coupler Phoenix Sound Systems, Inc. 3514 West Liberty Rd. Ann Arbor MI 48103 Price: \$47 Website: www.phoenixsound.com

Large scale, remotely controlled coupler; online instruction manual



so that it pops open, and the "trip pin" is a metal rod connected to the electronic solenoid. When the solenoid is energized, it pulls this rod back, thus releasing the knuckle.

The coupler is currently only available in a truck-mounted configuration. Depending on the equipment to which you're mounting the coupler, this could be a good or bad thing. It's easy to mount it on a typical truck-mounted coupler arm. I mounted mine on an LGB truck for testing purposes. You may have to do some light cutting or filing to get it to fit properly, depending. If you're going with a body-mounted coupler, you'll have to do some fiddling to get the coupler to fit on the mount. I don't think this would be difficult, but I do hope Phoenix releases a body-mounted version in the not-too-distant future.

My tests were conducted on my shelf railroad in my workshop. I found the coupler to be reliable. It opened and closed easily and seemed to withstand a fair amount of tension. The effects of a long, heavy train were simulated by letting the drivers of the locomotive slip, the locomotive tugging on the coupler as it did so. Under extreme loads, the coupler did occasionally come open on its own. I

PROS and CONS

PROS: Simple installation and hook-up; compatible with a variety of manufacturers' couplers

CONS: Available in truck-mounted configuration only

noticed this happening when the trip pin had worked its way backward as a result of vibration on the couplers imposed by the test. I imagine my workbench test to be a little more extreme than real-world conditions, though.

Operation of the coupler is simple. You simply energize the solenoid and it opens. How you energize the solenoid is up to you. You could use Phoenix's remote uncoupler board or a suitable auxiliaryfunction output of whatever control system you're using. You need only to energize the solenoid momentarily to open the knuckle. I found the coupler's operation to be quite consistent.

The big question with any large-scale coupler is, does it plays well with others? Large scale is not known for widespread coupler compatibility, and stories of issues with brand X coupling to brand Q abound. I have in my collection couplers from Aristo-Craft, Bachmann, Kadee, and Accucraft. Phoenix's literature says they're compatible with USA Trains' couplers; I did not have one on hand to confirm. Of all the couplers I tried, the Phoenix coupler proved most compatible with Kadee's "G" scale coupler. It routinely coupled and uncoupled without any problems. Only the Aristo-Craft coupler gave me trouble in terms of operation. It doesn't fit very easily into the opening of the Phoenix coupler, so has trouble coupling and uncoupling. With the other couplers, uncoupling was consistent. When I energized the solenoid, it easily released from all the other manufacturers' couplers. Recoupling to them was hit-ormiss but no worse than what one experiences coupling other dissimilar couplers. Sometimes a little human intervention was needed to get the trip pins to lock. It's always been easier to get them apart than to get them together.

It's important to note that these tests were done with the couplers mounted at the same height (11/8" centerline). That's the de-facto standard for large scale, body-mounted couplers or truck-mounted Kadee couplers. If the couplers on your equipment are not at that height, then all

bets are off. It makes no difference how compatible couplers are in operation—if they're not at the same height, there will be issues

The bottom line is that, an automatic coupler in large scale works best when it works with the widest variety of manufacturers' couplers. To that end, this coupler works about as well as one could expect, given the variety that exists in large scale. When couplers aren't 100% the same, you can't expect 100% compatibility, so one can't really fault Phoenix's for not meeting that standard, since there isn't any standard. "As good as any other combination" is really about the best anyone can ask for. This one meets that expectation.

-K. Strong



Make your own construction set

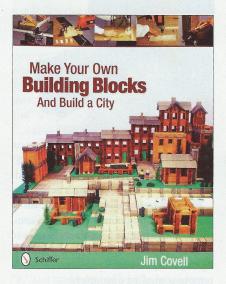
very once in a while a truly unusual book comes along, and this is one of those times. Make Your Own Building Blocks and Build a City is just what the title suggests. However, it's more than that. It's the author's personal story of his love for construction sets and life-long desire to create his own. As a child, Jim Covell had both American Logs (similar to Lincoln Logs) and American Plastic Bricks, an early product somewhat similar to Lego. These were used in conjunction with his American Flyer trains and they sparked a love of these types of toys and a life-long desire to make his own. This book is the culmination of that desire.

The preface and first couple of chapters tell the author's story and describe the tools he uses. Chapter three gets into the fundamentals—the modular system he devised that is the basis for the design of all of his blocks. Chapters four through nine discuss each type of block and their uses. The blocks are square in section but slot together in the same way as Lincoln Logs. Chapters 10 and 11 offer two different ways of making the blocks, one with large power tools (radial-arm saw and table saw, primarily) and the other with hand-held tools. A smaller, two-chapter section rounds out the book with additional, specialty blocks and a little town.

BOOK REVIEW

Make Your Own Building Blocks and Build a City by Jim Covell Published by: **Schiffer Publishing Company** 2880 Lower Valley Road Atalen PA 19310 81/2" x 11", softbound, 98 pages, full-color reproduction throughout Price: \$19.99

Website: www.schifferbooks.com



While simple in concept, the author has taken the idea of interlocking blocks far beyond those that are commercially available. An enormous amount of thinking has gone into his blocks and the result is a system that has far more flexibility than store-bought construction sets. The resulting structures are, nominally, halfinch scale and the author uses them with (what else?) large-scale trains.

The writing is generally clear but some sections may take two or three readings to understand the point being made. While the concept may be simple—blocks that interlock—the entire modular system is surprisingly complex. If you want to follow his example, it pays to actually read and understand what the author is telling us. His instructions are detailed and complete, down to finally sanding and staining the individual blocks.

This book is unique in another way. Jim Covell has virtually invented his own hobby. His book presents this hobby to the world, documenting his journey from its beginning when he was a child to its current state. While the resulting structures may not appeal to all garden railroaders, they would certainly fit into certain situations. This is a fascinating and ingenious book. -M. Horovitz