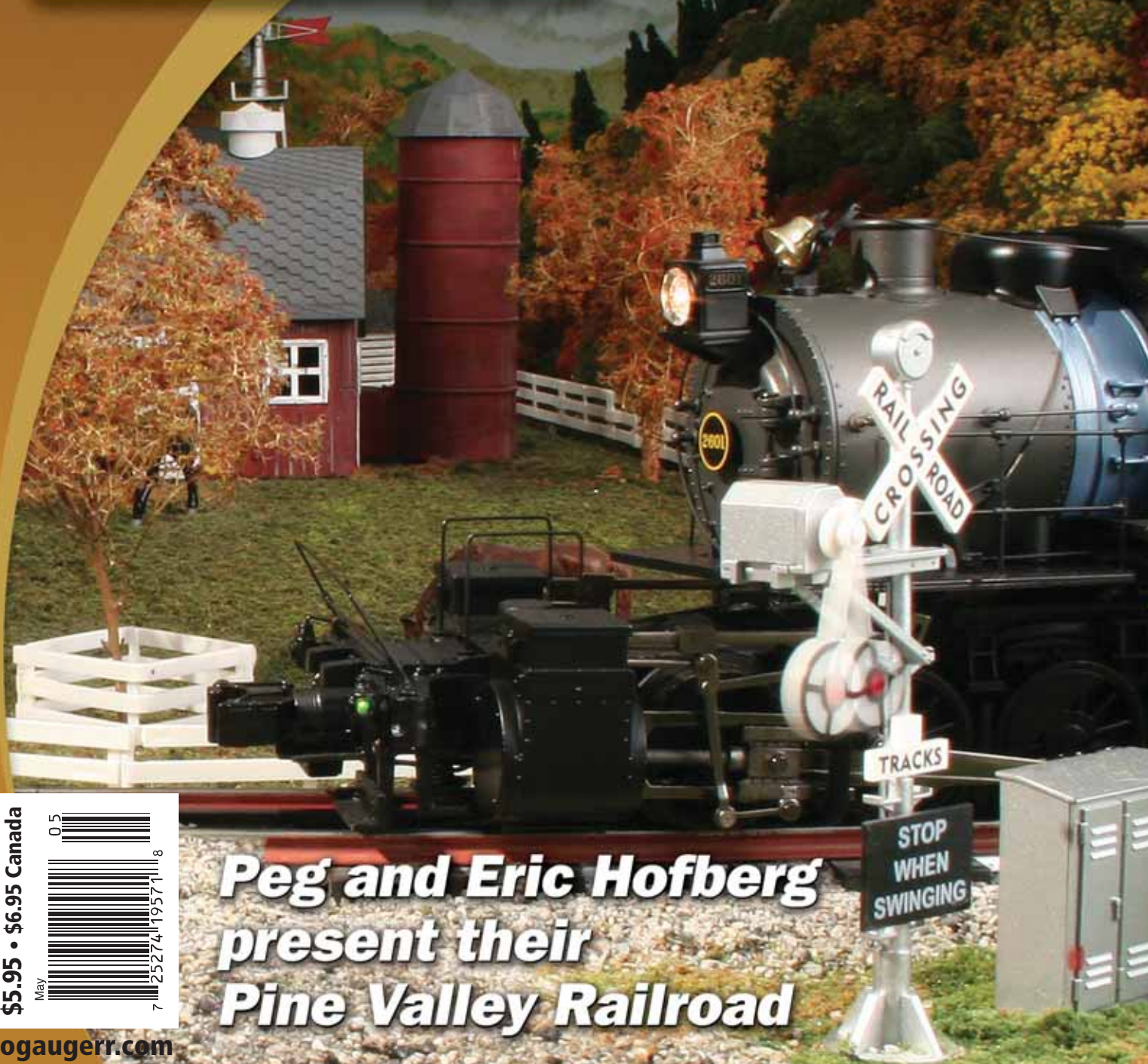


GAUGE™ RAIL-ROADING

Weathering Part 2 with Bob Bartizek



***Peg and Eric Hofberg
present their
Pine Valley Railroad***

\$5.95 • \$6.95 Canada





Best Friend of the Train Repairman

This is a *different* “Backshop.” It doesn’t deal with a specific repair, but rather with an exceptional set of tools. These tools are unique to our hobby and allow us to do all kinds of repairs.

There’s an old saying that goes, “You have to have the right tool for the right job.” When it comes to train repairs, that saying is as good as gold. Keeping trains working and keeping them looking as good as new is a special “hobby within the hobby” of mine. It started as a matter of necessity, since I grew up in a rural town. If any of my trains needed repairs, it was either wait until Dad went to the city on business when I could tag along with my broken treasure to the train store or learn to repair it myself right there at home.

The most difficult repair for me was anything involving a rivet. Rivets (at least in our train hobby) are pretty simple fastening devices. They are a solid connector with a

head on one end and a hollow tip on the other end. The objective is to slide the rivet through holes on toy train parts,peen the hollow end out, and smoothly roll the metal over to form another head on that end as well. Peening is the mechanical working of the hollow end of the rivet by means of hammer blows, causing it to make a permanent connection.

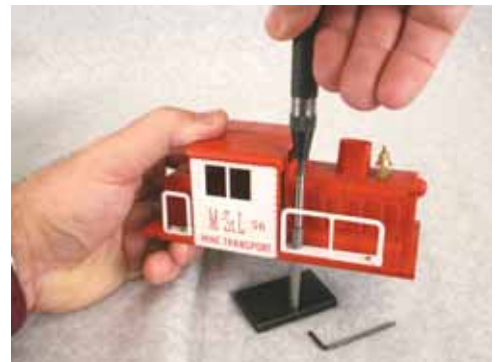
As a kid I tried to invent (more like “rig up”) tooling I needed for fastening rivets. The tools were crude center punches, filed nail tips, or anything else I could dream up. The repairs worked, maybe, sort of, but they always lacked the professional appearance and function of the original rivet. It seemed that no matter what I did, I just couldn’t hold on to the item being repaired and perform the peening operation the right way. I always needed extra arms and hands. When it came to replacing tiny springs in coupler knuckles or replacing worn-out or abused



Basic 0 gauge tool set.



Peening rivet for knuckle pin on knuckle coupler using Original Riveter with BRT1-1 Tip and the BR1-P1 Backing Stake. Parts needed for this fix are Coupler Knuckle Spring #480-16 and Coupler Knuckle Pin #TC-23. Get lots of the tiny springs. They get lost so-o-o easily!



Tightening hand rails on a motorized unit using the Original Riveter with tip BRT2-1 and BR1-P1 Backing Stake. Note the BREXT-1, 1” extension for the Original Riveter, allows the body of the Original Riveter to stay safely away from the engine cab.

Carl's Toy Trains

Home of the Brakeman's Riveting Tool Set
Factory quality riveting for 'O' & 'S' gauge model
trains, that is quick, easy and affordable!!!



**MADE
in the
U.S.A.**

website: www.rivetin.com
phone: 781-367-7578
e-mail: carl@rivetin.com

P.O. BOX 443 • MEDFORD, MA 02155-0005

Carl's Toy Trains

Home of the Brakeman's Riveting Tool Set
Factory quality riveting for 'O' & 'S' gauge model
trains, that is quick, easy and affordable!!!



**MADE
in the
U.S.A.**

website: www.rivetin.com
phone: 781-367-7578
e-mail: carl@rivetin.com

P.O. BOX 443 • MEDFORD, MA 02155-0005

Carl's Toy Trains

Home of the Brakeman's Riveting Tool Set
Factory quality riveting for 'O' & 'S' gauge model
trains, that is quick, easy and affordable!!!



**MADE
in the
U.S.A.**

website: www.rivetin.com
phone: 781-367-7578
e-mail: carl@rivetin.com

P.O. BOX 443 • MEDFORD, MA 02155-0005

Carl's Toy Trains

Home of the Brakeman's Riveting Tool Set
Factory quality riveting for 'O' & 'S' gauge model
trains, that is quick, easy and affordable!!!



**MADE
in the
U.S.A.**

website: www.rivetin.com
phone: 781-367-7578
e-mail: carl@rivetin.com

P.O. BOX 443 • MEDFORD, MA 02155-0005

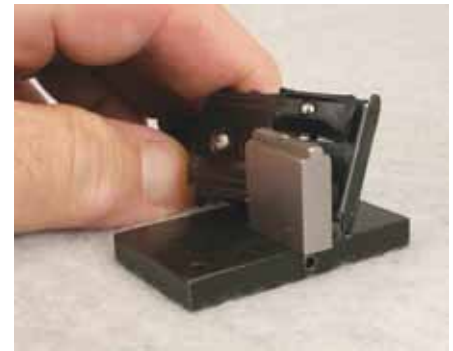


The finished rivet has that factory installed professional appearance.

accessory slide shoes on my operating cars, well, that was just impossible.

Time marches on and with it, thankfully, so goes ingenuity. Somewhere there was a guy named Carl Scire. He saw a great new function for an existing tool. He adapted an existing spring-loaded center punch used by machinists. What he came up with was a whole new simple and easy way to handle the job of installing rivets and staking metal parts together. In short, he revolutionized the toy train repair hobby.

Now, anyone who is the least bit handy can use Carl's tools and repair or replace virtually anything riveted together. All you have to do is replace the rivet and, using his tooling and backing stakes, perfectlypeen the rivet into place. The Brakeman's Riveter tool makes it so easy that it is virtually impossible to tell your finished result



Note the special backing stake BR1-P3 for accessory car slide shoes. This stake allows the head of the rivet to be held firmly in the seat of the slide shoe during the installation and rivet operation. Note also the beveled ends for the #TT-208 Slide Shoe. That modification to the slide shoe is covered in "Backshop" Run 218 for hi-rail track and switches.



Peening the slide shoe rivet using the Original Riveter, the BRT2-1 Tip, and the BR1-P3 Slide Shoe Backing Stake. Parts needed for this fix include the Slide Shoe #TT-208, Shoe Plate #TC-109, and the Slide Shoe Rivet #480-20.

Featured in Run 221's Barrett in the Backshop

	<p>Brakeman's Riveter Boxed Set #3 for O Gauge \$331.00</p> <p>Deluxe Complete O Gauge Boxed Set #3A \$399.00</p> <p>Wooden Box shown is also sold separately for an additional \$39.00 and can be shipped with either The Original Starter Set or The Basic Tools O Gauge Set</p>		<p>Brakeman's Riveter Original Starter Set</p> <ul style="list-style-type: none"> • BR-1 Original Riveter with BRT1-1 Tip • BRT2-1 Shoe/Armature Spring Tip • BR-PO 4 pc Backing Post Set <p>\$79.00</p> <hr/> <p>Brakeman's Riveter Basic Tools O Gauge Set</p> <ul style="list-style-type: none"> • BR-1 Original Riveter with BRT1-1 Tip • BRT2-1 Shoe/Armature Spring Tip • BR-PO 4 pc Backing Post Set • BR-2 Super Riveter for replacing O Ga. Trucks • BR-S Truck Rivet Securing Tool <p>\$153.00</p>
--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Carl's Toy Trains
PO Box 443
Medford, MA 02155

1-800-RIVETIN
WWW.RIVETIN.COM

See the Brakeman's Riveting Set
Demonstrated at the next York, PA
Eastern Div. TCA Meet in the Silver Hall,
Table J-40



You may need to install a new spring to hold the slide shoe firmly in place and to avoid it picking on the ends of rails of hi-rail switches. Use the Original Riveter equipped with the BRT2-1 Tip and the BR-PE Backing Stake. Parts needed include the Slide Shoe Spring #6TC-12 and the Slide Shoe Spring Eyelet #61-14.



Here is the finished slide shoe and spring assembly. If all else is OK with any operating car mechanism and wiring, most all other operating car issues result from weakened or damaged slide shoe springs or slide shoe rivets whose all-important head is worn off, preventing contact with the accessory hot rail.



Here's another easy job to do with the Original Riveter. You can tighten brake wheels and their base shaft at the same time on Lionel dump cars using the BRT1-1 Tip with the BR1-P1 Backing Stake.



Here's another super handy backing stake. It is the BR1-SP which fits snugly and firmly on the inside of Lionel F3 and GP side frames as shown here.



Using the Super Riveter with much more striking force and the BRT4-2 Swaging Tip, side frames can once again be firmly tightened to the truck frame top.



Much force is needed to perform this task, but the results are truly professional and original looking.

from the factory original!

The secret to using rivets is total control of the method used to put pressure on the rivet and total control of backing behind the head of the rivet. A rivet press like the ones used to install rivets at the factory is prohibitively expensive. Carl's rivet tool is a great alternative. Instead of a con-

tinuous pressure as a press would use, the Brakeman's Riveter is a simple hand-held device that allows you to dial up the striking pressure as well as the number of strikes you use.

Using either the Brakeman's Original Riveter (the BR-1) or the Super Riveter (BR-2) and various backing devices, you

can dial in the amount of "punch" the rivet tool will deliver and gently, firmly peen over the end of the rivet. The beauty of these tools is that you can do it slowly in stages determined only by the amount of punches you decide to apply or the amount of pressure per punch. The BR-1 or BR-2 can be loaded with many different

Carl's Toy Trains
 Home of the Brakeman's Riveting Tool Set
 Factory quality riveting for 'O' & 'S' gauge model trains, that is quick, easy and affordable!!!




MADE in the U.S.A.

website: www.rivetin.com
 phone: 781-367-7578
 e-mail: carl@rivetin.com

P.O. BOX 443 • MEDFORD, MA 02155-0005

Featured in Run 221's Barrett in the Backshop

	<p>Brakeman's Riveter Boxed Set #3 for O Gauge \$331.00</p>		<p>Brakeman's Riveter Original Starter Set</p> <ul style="list-style-type: none"> • BR-1 Original Riveter with BRT1-1 Tip • BRT2-1 Shoe/Armature Spring Tip • BR-PO 4 pc Backing Post Set <p>\$79.00</p>
	<p>Deluxe Complete O Gauge Boxed Set #3A \$399.00</p> <p>Wooden Box shown is also sold separately for an additional \$39.00 and can be shipped with either The Original Starter Set or The Basic Tools O Gauge Set</p>		<p>Brakeman's Riveter Basic Tools O Gauge Set</p> <ul style="list-style-type: none"> • BR-1 Original Riveter with BRT1-1 Tip • BRT2-1 Shoe/Armature Spring Tip • BR-PO 4 pc Backing Post Set • BR-2 Super Riveter for replacing O Ga. Trucks • BR-S Truck Rivet Securing Tool <p>\$153.00</p>

Carl's Toy Trains
 PO Box 443
 Medford, MA 02155

1-800-RIVETIN
WWW.RIVETIN.COM

See the Brakeman's Riveting Set Demonstrated at the next York, PA Eastern Div. TCA Meet in the Silver Hall, Table J-40

tips for literally hundreds of jobs or tasks to be performed. The BR-PB Universal Backing Post Base Plate can accept many different backing posts to perform the job of backing up the head of the rivet you are working on so that you can easily control the “hits” from the BR-1 or BR-2 tool on the other end.

There is no way within the confines of this article that I can cover all the things this set will let you profession-



The BR-FB Fitted Base for F3 and Alco frames provides firm support for securing ladders to the frames. Here, an F3 frame is inserted and the ladder stake is being re-swaged using the Super Riveter with the BRT4-2 Swaging Tip.



Here's what the finished job looks like. A dab of flat black paint produces a nice professional job.



The same tools are used for Alco frames with the same professional results.

ally repair. If you own the complete set as I have for many years now, I'm sure that you will find countless more tasks it can perform that most of us haven't even come across yet. That is one of the beauties of this system. Photos with this article show some of the most common and valuable operations that I perform with my set. Replacement parts needed for these operations can be purchased from parts suppliers, such as George Tebolt Train Parts (see the ad in this issue). Carl Scire's Brakeman's Riveter is advertised under Carl's Toy Trains. For complete coverage of all the tools Carl offers, please also see his website at www.rivetin.com.

List of Referenced Repair Parts

Armature Spring	480-38
Armature Spring Rivet	480-19
Coupler Knuckle	480-8
Coupler Knuckle Pin	TC-23
Coupler Knuckle Spring.	480-16
Coupler Roller.	481-11
Coupler Roller Pin.	481-12
Coupler Roller Spring	TCL-45
Coupler Roller Spring Rivet . .	TT-234
Coupler Roller Assembly Rivet	480-19
Dump Car Brake Wheel	2419-23
Shoe Plate	TC-109
Slide Shoe	TT-208
Slide Shoe Rivet	480-20
Slide Shoe Spring	6TC-12
Slide Shoe Spring Eyelet	61-14

Carl's Toy Trains

Home of the Brakeman's Riveting Tool Set
Factory quality riveting for 'O' & 'S' gauge model
trains, that is quick, easy and affordable!!!



**MADE
in the
U.S.A.**

website:www.rivetin.com
phone:781-367-7578
e-mail:carl@rivetin.com

P.O. BOX 443 • MEDFORD, MA 02155-0005

Carl's Toy Trains

Home of the Brakeman's Riveting Tool Set
Factory quality riveting for 'O' & 'S' gauge model
trains, that is quick, easy and affordable!!!



**MADE
in the
U.S.A.**

website:www.rivetin.com
phone:781-367-7578
e-mail:carl@rivetin.com

P.O. BOX 443 • MEDFORD, MA 02155-0005

Carl's Toy Trains

Home of the Brakeman's Riveting Tool Set
Factory quality riveting for 'O' & 'S' gauge model
trains, that is quick, easy and affordable!!!



**MADE
in the
U.S.A.**

website:www.rivetin.com
phone:781-367-7578
e-mail:carl@rivetin.com

P.O. BOX 443 • MEDFORD, MA 02155-0005

Carl's Toy Trains

Home of the Brakeman's Riveting Tool Set
Factory quality riveting for 'O' & 'S' gauge model
trains, that is quick, easy and affordable!!!



**MADE
in the
U.S.A.**

website:www.rivetin.com
phone:781-367-7578
e-mail:carl@rivetin.com

P.O. BOX 443 • MEDFORD, MA 02155-0005