## The Trolleyville Times

August 2009

Check the Custom Traxx Summer Special for powering certain HO s

The Con-Cor HO Scale **Ready-to-Run Electroliner !** \*\*\*

## **The Illinois Terminal 450-457** series PCC from IHP! \*\*\*

In late June, Con-Cor began releasing their HO scale model of the PCC cars to the Illinois Terminal Railroad. These the Chicago, North Shore & Milwaukee Electroliner. These two trains, 801-802 and 803-804, provided premium service from Chicago to Milwaukee until the lines demise in 1963, saint Louis Car company utilized are purchased to modernize the local service from Granite City, Illinois to Saint Louis, Missouri. The PCC cars only remained in service for nine years, completing their last runs in June Con-Cor went to great lengths to educate each buyer on the 1958. In 1960, all eight cars were sold to Bierman Iron & spectacular nature of this train. The trains were featured in the Metal Company (BIMCO) where they literally rusted away October and November 1982 issues of Trains Magazine and before being finally scrapped in 1964. Fortunately, in the folks at Con-Cor thoughtfully included both articles with December of that same year, car 450 was acquired by the the unit. Briefly, the two trains were built in 1940 by Saint Louis Car Company and introduced to the public in February 1941. They ran until 1963 and then were sold for \$3,200 each to the Philadelphia Suburban Transit (PST) for limited stop service on the Norristown Line, which was the only PST line service on the Norristown Line, which was the only PST line of the standard trolley catchers and kept them throughout that was standard gauge. They were re-named the Liberty their service lives. Liners with the names Independence Hall (803-804) and the Valley Forge (801-802) replacing their old 800 series numbers. They were eventually retired in December 1977. After allowing both trains to rust away at 69th Street and be attacked by the local vandals, the Southeastern Pennsylvania Transportation Authority (SEPTA) finally decided to put the trains up for bid in 1981 with the 803-804 going to the Rockhill Trolley Museum in Pennsylvania and 801-802 going to the Illinois Railway Museum in Union, Illinois. Con-Cor's founder, Jim Conway often rode these trains as a young boy and teenager. Custom Traxx' founder George Huckaby rode the first PST Libertyliner revenue trip out of 69th Street in Philadelphia in 1964.

Upon receiving our model of the 801-802, we were in awe of still in service. the box with the striking photo of the Electroliner on the cover. We wanted to frame the box and hang it on the wall. Then we Imperial Hobby Productions (IHP) displayed many new opened the box and went through all the prototype data provided by Con-Cor along with professionally developed of our reporters obtained one of these kits and began to instructions. It would be a week before we would actually take evaluate it. Last month we published our review of the IHP the four-unit train out of its carefully packaged box and test HO scale model of the 1946 Shaker Heights Pullman PCC run it.

graciously provided by Con-Cor. We did not know of for this edition. Assembling this model resulted in many proposals to add another coach to the train, making it five units. There are more items like that in the information provided. Do not fail to completely read all the information provided!

So finally, we opened the box and started to put the four units vears in West Philadelphia. together. You will really want to make sure to have thoroughly read the section "Assemble the Electroliner on the Track to Prepare for Operation". located on the tenth page. There is also a complete set of instructions on the Con-Cor website. Read the entire instruction page from cover to cover before starting. The assembly is easy once you get the hang of it.

The A-Car performs as "locomotive" and is the only unit with two trucks attached. Only the front truck is powered. It is capable of running by itself so perform steps A) and B). After

this it gets a little tricky. Get a really strong desk or shop bench In support of efforts by the Southern California Traction light so that you will be able to have great visibility between Club (SCTC) and the East Penn Traction Club (EPTC) to the cars. Line up the metal "T" post on the C-Car, the lounge encourage development of kit building skills in the traction unit, with the plastic "C" slip on the A-Car. At the same time portion of the model railroading hobby, effective July 1, ensure that the eight pin male plug slides into the 8 pin female 2009, Custom Traxx will be offering customers the ensure that the eight pin male plug shdes into the 8 pin female 2005, Custom Hax will be obleting customers the plug on the C-Car and then push the two units together. Because the eight pin plugs swivel for curves, they are (HP) shells with items in our inventory including trolley sometimes hard to line up. Berne Gerod developed a very simple procedure. He fashioned a piece of card stock or plastic as ubout  $5 \times 2.0$  inches Affer determining which way the wale simple procedure in rashoned a piece of eard stock of plaste IHP shells/kits listed below since May 15, 2009 and can about .5 X 2.0 inches. After determining which way the male provide a copy of the invoice, there are some great savings plug is canted, slowly push to bring it into alignment with the for modelers. This special sale is scheduled to end on female plug. Then, push until the pins have entered partway August 31, 2009 so check with their web site for the and aligned, withdraw the cardstock and complete the particulars!

In 1949, Saint Louis Car Company delivered eight double



Car 453 is shown above in the Granite City yards while

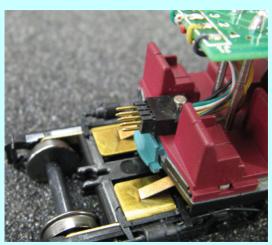
cars, series 71-95, after which the manufacturer

complimented our reporter. We completed our review of Another surprise was the wealth of information about the trains the Illinois Terminal 450-457 series PCC kit just in time remarkable vehicles have been in service for almost 30

> **Custom Traxx Special for IHP HO scale Trolley Modelers!**

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coupling. Take care, as the pins are small and bend easily. He tested each coupling as he went along to ensure he had a [Electroliner, from column 1] correct coupling. He also told us that describing it took longer First, when using the toothpicks, ensure that the toothpick than joining the four units.



If you can see any of the pins between the diaphragms, after the units are you may not be correctly connected. Please the two units on the track. If they are connected correctly, the interior lights will be illuminated in the C-Car.

is wedging itself between the chassis and the windows, NOT the windows and the car body. If the latter happens, the chassis will not budge. In fact, you will be actually locking it in. Again use an intense light and watch carefully where your toothpick is going. When all the required toothpicks are in the right place, the chassis just pops out. Once we finally got the A-Car apart and this is NOT a snap, everything became clear, especially the trolley pole issues. Con-Cor partially replicated a very successful trolley pole design instituted by Model Tramway, Fairfield Traction Models and S. Soho many years ago. The pole assembly consisted of two pieces. The first was the trolley pole, with springs and NMRA S-5 wheel turning on a 1mm spindle which plugged into a roof mounted brass sleeve. This allowed a wire to be attached to the brass sleeve and allow the pole to swivel unimpeded. The Con-Cor pole combined both items into one single assembly and attached the wire to the combined assembly and this wire, at first, seemed to provide an impediment to the free swiveling of the trolley pole base. It turned out that if one could get a small drop of plastic compatible oil between the pole base and the shell, this would improve the poles ability to swivel dramatically. Unfortunately, this is done better from the inside of each unit. Shown in the next photo is the red wire which connects the trolley pole to the circuit board in each car.



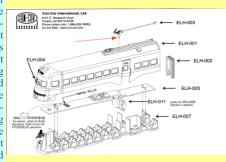
rail DC mode. This is a smooth quiet-running unit which with the neutral 9.5mm SCTCI down to 3.5mm to avoid contact with the neutral signal contact with the neutral signal contact and the second sec glided around the SCTC test track. It started moving steadily, units. For more about the SCTC1, click here! without jerks or hesitations, at 2.0 volts. Our first problem came when we decided to let the poles ride on track the We removed the trolley pole by simply removing the pin in overhead wire. As soon as we came to our 12" radius curve the the Con-Cor trolley pole base on the underside of the roof pole dewired. The poles all have adequate spring pressure and and desoldering the wire from the circuit board, note on the shoes are in accordance with NMRA specification S-5. But the first page of the supplied instructions, there is a hole we noticed that there was excessive resistance to the swivel of shown in the bottom of the trolley pole base. the pole. At the same we noticed that we could not remove the pole from the roof of the car. We checked the poles on the C-Car, B-Car and D-Car and felt similar resistance. We knew that we would have to change the poles anyway as the SCTC does not allow cars to run on their modules with poles that cannot be removed from the roof without car disassembly. Changing the dip switch in the A-Car from track to overhead wire would require us to disassemble the "A" unit anyway, so we continued to assemble the train and couple the A-Car and C-Car to the B-Car. Here we met another problem. During assembly one of the body current wipers, clearly shown in the first photo in this article, had become wedged under its contact plate on the truck. We removed the screw holding the truck and

very carefully dislodged it, reformed it and re-installed the If you are fortunate, you can just pull that pin from the truck. We had much difficulty getting the eight-pin male plug pole base, Remove the wire soldered to the base and and on the C-Car to line up with the female plug on the B-Car. But the entire pole assembly can be removed. In our eventually we made it happen. This is where good lighting is experience, only one of the four poles came out that easy essential so you can see between the two units looking from the top down. Hooking the final D-Car was relatively easy by this time and we were ready to run our train on the Souther the south of the souther the this time and we were ready to run our train on the Southern the circuit board to it. We then moved the dip switch to the California Traction Club test track.



To operate on the SCTC modules, we would be have to replace all these poles, install SCTC1 trolley pole bushings and most likely Miniatures by Eric HT-P2 poles with trolley shoes. The club also prefers to use .020" steel spring wire for trolley poles versus the .032" brass used in the provided poles.

Note: It is recommended for this application, that you use We placed the two units on the track and ran them in the two- one of the original 5.3mm long SCTC1 bushings or cut the



overhead position and reassembled the unit. After

Since we do not yet know which Train Control Systems (TCS) installing our test HT-P2 trolley pole, the "A" unit ran decoder to use, the train was operated in the DC/analog mode. smoothly and flawlessly.

The train just runs smoothly and effortlessly. As soon as John McWhirter saw it running he said "...Wow ... What a Train ... I wish we still had trains like that ... " The train effortlessly glided around our 9" radius curves and seemed to get smoother and quieter as it ran, if you could consider that possible. The club certified our Electroliner 801-802 in two-rail operation at 45.1 scale miles per hour at 7.0 volts. Then we tried to run the train in reverse and that is where there are two issues. While the train runs in reverse well, it did not like the smaller radius curves in reverse as well as it did running forward. First, the front truck of the D-Car would derail a lot on curves. Second, with the A-Car pushing the train, the slack between the units is less and the rubber diaphragms interfere with each other to a greater extent. This reduces the radius of curves that the unit will traverse without a derailment. Without major One could also place a drop of plastic compatible oil modifications to the unit, the second problem can not be between the pole base and the shell from the underside and corrected but the first problem can be corrected by adding improve the poles ability to swivel dramatically. We noted weight to the D-Car. The correct amount of weight is still that dramatically improved the ability of the provided pole under evaluation but it seems to be in the neighborhood of .5 assembly to track on the overhead wire. It also will save ounce. There is room under the front platform ahead of the you a lot of problems if you go further and disassemble the front truck or you could add some metal people figures into the seats. We started by adding 1/4 ounce of weight in two pieces right behind the pilot. We will resume testing after the coversion to overhead wire operation because that is how the conversion to overhead wire operation because that is how the without damaging, breaking or scratching something. We train will be operated.

Now it was time to disassemble the A-Car to try overhead wire patience. So the bottom line is that if you don't have to take operation. This is where you need to carefully read the section the units apart ......don't unless you are patient, and have "Removing the Body from the "HO" Electroliner good lighting. We store the completed train on one of A-Locomotive", located on the ninth page. One thing we line storage boxes. It is always handled with two hands, learned is to use **round** toothpicks not the flat ones. You are each hand holding two units. about to experience out the fantastic engineering used on this But at the end of the day(s), after we had replaced the car. We are very familiar with the integrity of the supplier in poles, reassembled each of the units and get them back China who made these cars and we are not at all surprised.



Watching the assemblers at work while I was in China in April 2008 tipped me off on how to disassemble these units. These people know how to assemble and disassemble delicate items such as these in their sleep.

[See Electroliner, column 2]

## **Bowser San Francisco PCC Now In Production !**

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On Thursday, July 23rd, the final production samples of the San Francisco PCC car arrived at both Bowser Manufacturing in Montoursville, PA and the Custom Traxx testing facility in Los Angeles, CA. All cars have been going though their tests and will negotiate 9" radius curves with ease. Prior to obtaining these cars, preliminary samples and pre-production samples had been received in May 2009 and July 2009, respectively and each group of samples had issues that we required modification. These cars all have eight-wheel electrical track pickup in both two-rail and overhead wire modes. Even the brass power pick-up bars behind the wheels have been blackened, eliminating the toy look from the trucks. These cars have the smoothest, quietest Bowser drives experienced, even the motor mounts have been cushioned. The car has operating headlights, taillights and dash lights in the DC mode. The car is DCC ready and when a decoder is added, the car has interior lights and an illuminated front destination sign. The two undecorated cars in the rear of the photo below are these vehicles. All the cars in the photo use the Bowser traction drive and are under various stages of testing by selected members of the Southern California Traction Club and the East Penn Traction Club. Expect these cars very soon at your local dealer. Don't wait too long or they will be all gone. They are real beauties!!



did all three trying to get the C-Car apart. We want to emphasize that this is a very difficult job requiring loads of

together both electrically and physically, we placed our Electroliner on the test track of the Southern California Traction Club and certified the unit at 45.1 scale miles per hour. The unit ran perfectly under overhead wire and will be a featured at the next club showing. Our model Electroliner ran through the SCTC test track 9" radius curves with the A-Car, the powered unit, pulling but would not do that with the A-Car pushing. All four trolley poles collect current so the train can be operated from overhead wire with one or two poles. As press time, we trying to find the appropriate TCS decoder to insert into the unit. Information was not available from either TCS or Con-Cor so we sent our unit to TCS to assist them in deciding the best decoder for this train. Suppliers working together usually achieve the best results. The Electroliner is a fantastic addition to the HO model railroading and traction field. We just may acquire a model of 803-804 when 801-802 returns from Pennsylvania......



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