



OZARK DIVISION NEWSLETTER SEPTEMBER 2022

Don Miller – Ozark Division Communications Editor 06-59842.

This Quarter’s Newsletter is highlighted by two articles. The first is an article on “paper” collecting by Gateway Chapter President, David Osborn. The second details the customization of a Menard’s Nuclear Power Plant for installation on my layout. But first a word about joining TCA by our Division President, Rob English.

Presidents Message

So why join the TCA?

This is a basic question we all have an answer to. Mine is rooted in the history I have with the Train collecting and operating community.

Back in 1994, I returned to St. Louis from working in remote Eastern Illinois. I had worked there for 3 years and was looking to reconnect with people here in St Louis. I went to a local Hobby Shop (Kirkwood Hobby) with a friend and was bitten by the train bug again after enjoying them as kid.

In searching out like-minded folks, I stumbled across the TCA, and I was interested in what this group could teach me about train collecting and operating. After finding two members to vouch for me, and a year of probationary membership, I became a full member in 1996.

What I got, and still get, from membership in TCA, is SOOO much more than folks willing to share tips and tricks of collecting and operating trains. I have a network of friends, mentors... of likeminded folks that I learn from, discuss with, and enjoy the many aspects of this wonderful hobby alongside. This is an invaluable part of the TCA that is hard to quantify but becomes immediately evident when you engage with the TCA community. It has been rewarding to get as much as I have from this TCA Community... it has been even more rewarding to contribute to the TCA through my learnings, and new collector coaching as well as the operational experiences... and by virtue of my service to the TCA organization.

Tell the young/new collector/operator about the TCA and the value that you have experienced. Encourage them to join AND engage the members! After all, which of us doesn't want to talk and play trains!

Rob English 96-43303, President, Ozark Division of the TCA

Lionel Prewar Service Station Tools & Documents

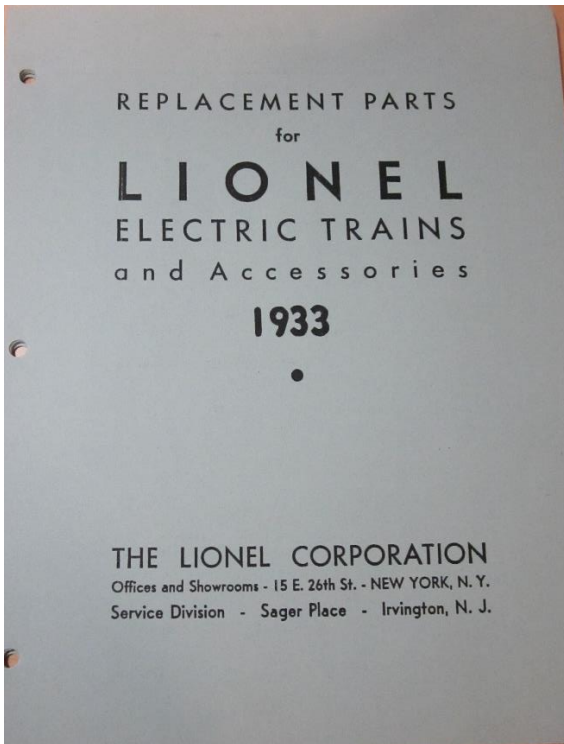
Why do people collect Lionel Service Manuals and the contents of them? I think there are more reasons than the obvious one which is to have the technical information contained within them. The information can include part numbers, how the parts were assembled, how the item was wired and how it can be repaired. A more subtle reason to collect the manuals is to enjoy the history contained within the manual's pages. To get the full value of a service manual you must read it from cover to cover. I seriously doubt if many have done it. The final reason is because the manuals are nostalgic. They are old and have a feel very different from Lionel's current production of computerized technical documents.

It's my opinion that most collectors buy a Service manual at a train show take it home and put it on the shelf. They don't use it and never read it. They never avail themselves of the wealth of historical information that resides within its covers. Train collectors that buy one and do use it can quickly become frustrated with it. Why, because what they spent more than one hundred dollars on is often incomplete and therefore hard to use. This is quite often true for Postwar Service Manuals. Having a truly complete and useful Postwar Service manual usually requires multiple purchases of the manuals. This topic will be the subject of a future article.

PREWAR PARTS LISTS, SERVICE MANUAL & SERVICE BULLETINS

PARTS LISTS

As far as I know Lionel did not make service or parts information available to dealers until the early 1930s. Lionel first made parts list available to dealers in 1930. Additional parts lists were published sporadically beginning in 1930 followed by 1933, 1935 and 1937. (Photos 1 & 2) The photos show a reproduction of the 1933 Replacement Parts list. It is organized by part name rather than item number (i.e., 260E). This makes them a little more challenging to use but they were still helpful.



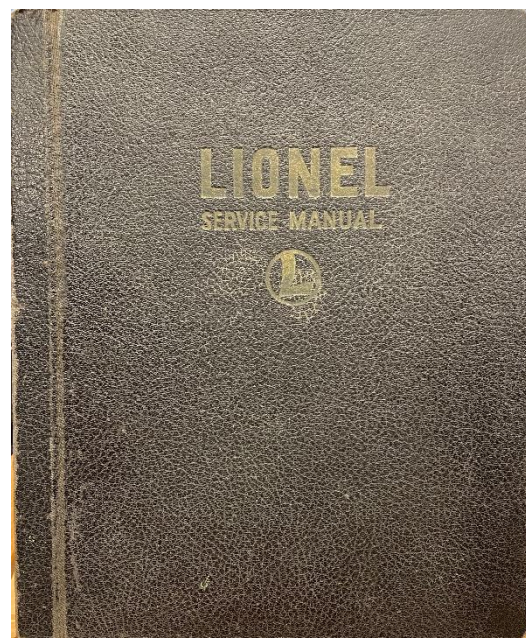
Replacement Parts for "O" Gauge Locomotives
ISSUED 1933 • REISSUED 1986

PART	FOR ARTICLE	PART NO.	PRICE
Arm & Spring Assembly with 2 Springs	All Locos Except Those with Estimating Headlights	E-47	.40
Arm & Spring Assembly with 2 Springs & Contact Panel with 8 Contacts	All Locos Except Those with Estimating Headlights	E-86	1.00
Armature Complete	All Super-Motors (Prior to 1931)	515-30	1.00
Armature Complete with Pinion Axle	All Super-Motors (1931 & 1932 Type)	515254-27	1.10
Axle Bushing	All Motors	51-37	.05
Bearing (Back) Comp.	All "B-B" Locos	51-90	.10
Bearing (Front) Comp.	All "B-B" Locos	1-60	.40
Boller Head Complete	All "B-B" Locos	1-59	.75
Boller Head Complete	257-258	257-3	.65
Boller Head Complete	260E	259-29	.25
Boller Head Complete	261, 262	260E-61	.75
Boller Head Complete	260E 261, 262, 262E	261-19	.65
Boller Head Catch Spring	260E 261, 262, 262E	260E-53X	.15
Brushes	All Motors Except Super-Motors	260E-85	.20 Dsz. .02
Brush Plate Assem.	All Motors Except Super-Motors	73-1	.60
Brush Plate with Controller, Complete	Super-Motors	74-1	.50
Brush Spring	Super-Motors (Prior to 1930)	515-27	.50
Chopper Unit	Super-Motors (1930 Type)	515254-12	.50
Chopper Switch Unit	All "B-B" Locos	1-87	1.00
Circuit Breaker	All Motors	1-48	.05
Cell Only	All Distant Control Locos Prior to 1933	CH-35	2.00
Connecting Rod (Short)	260E	CH-36	.50
Connecting Rod (Short) Screw	1933	51E-6	.20
Connecting Rod (Long) Screw	260E	E-31	.50
Connecting Rod	260E	260E-33	.05
Connecting Rod Screw	257, 258, 259, 259E, 261, 262, 262E, 1694	260E-24	.05
Conn. Rod (Long) & Lower Piston Rod Assem. R. H.	260E	260E-23	.05
Conn. Rod (Long) & Lower Piston Rod Assem. L. H.	260E	257-45	.05
Conn. Rod (Lower) & Drive Rod Assem. L. H.	257, 258, 261, 262, 262E	257-46	.05
Conn. Rod (Lower) & Drive Rod Assem. R. H.	257, 258, 261, 262, 262E	260E-69	.20
Contact Panel with 5 Contacts & Conn. Link	260E	260E-64	.20
Contact Points for Controller	257, 258, 261, 262, 262E	257-43	.15
Contact Shoe Complete	257, 258, 261, 262, 262E	257-48	.15
Contact Shoe Complete	All Locos Except Those with Estimating Headlights	E-65	.35
Contact Shoe Roller	All "B-B" Locos	CON-12	.10 Dsz. .01
Contact Support & Double Contact Contact	All Locos Except "B-B" Locos	515-40	.75
Contact Support with Double & Single Contact	All "B-B" Locos	81-14	.85
Controller Handle	All "E" Units	515254-3	.10
Controller Hand Reversing Unit	All "E" Units	259E-26	.25
Controller to Short Distant Reversing Unit	251, 251E, 252, 252E, 253, 253E, 254, 254E, 255	259E-32	.35
Controller, Hand Reverse	258, 259, 259E, 262, 1694	8-22	.35 Dsz. .03
Controller to Short Distant Reversing Unit	260E	CON-31	.40
Controller Switch for Chopper	260E	CON-37	.75
Coupler	259, 259E, 1661, 1661E	CON-38	.50
Couplers	All Except 256	CON-40	.50
Couplers	256	259-32	.10 Dsz. .01
		CP-8	.20
		CP-21	.25

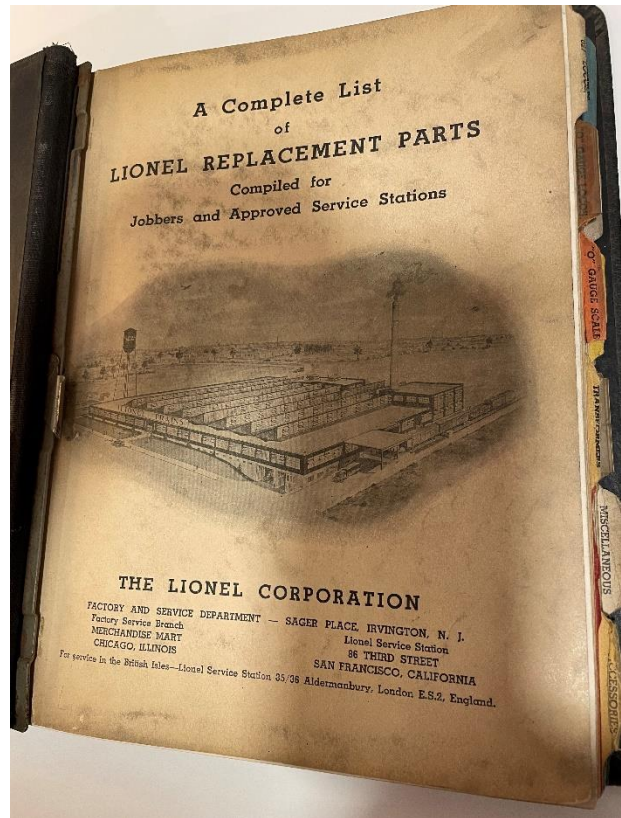
[2]

SERVICE MANUALS

The Prewar service manual (photos 3, 4, 5) was first issued in 1939 coincident with creation of the Service Station network. It was reissued and revised in 1941. The 1941 revision contained 94 pages divided into 12 sections.



The Locomotives, O gauge scale, Transformers, Couplers & Trucks, Accessories, Whistles, E-units, OO gauge, Operating Cars, Miscellaneous and Standard gauge. Individual items are listed in each section by number (i.e., 201). The information within each section only includes parts lists for items. There are no narrative descriptions, exploded diagrams nor wiring diagrams. In addition to trains, the manual includes boats, remote control airplanes, current reducers and inverters, paint colors, replacement lamps. Track parts, wire, screws nuts and miscellaneous. Due to the short 2-year time frame and lack of revisions or additions after 1941 these versions are generally complete.



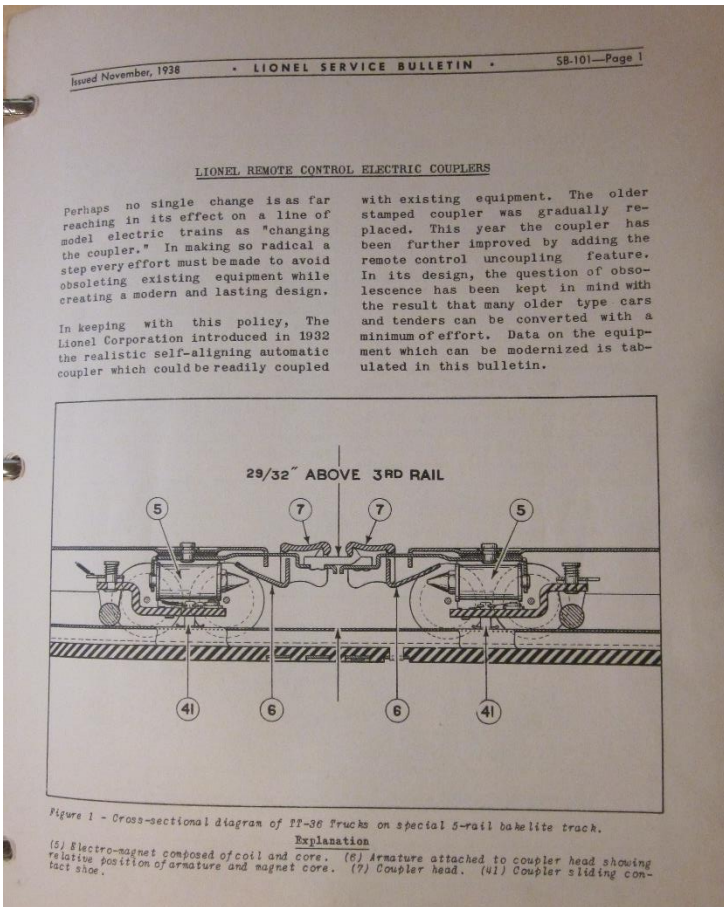
UNION NOVEMBER, 1939
REVISED MAY, 1941

PAGE 24
REVISED

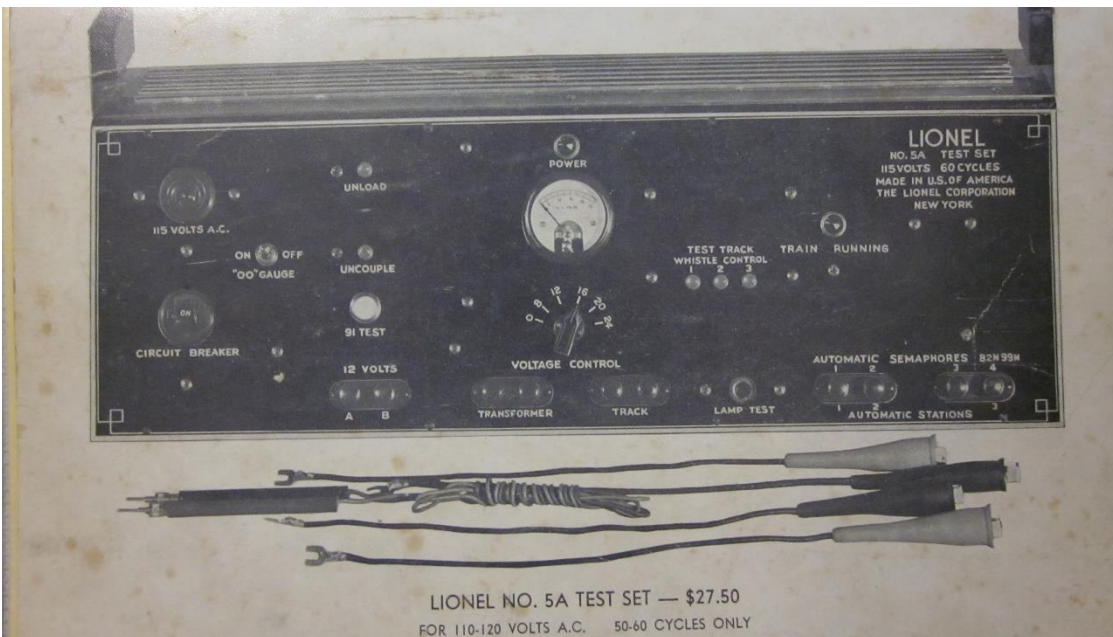
**"O" GAUGE
PENNSYLVANIA-TYPE SWITCHING LOCOMOTIVES
No. 227 - 228 - 230 - 231**

PRICE	227	228	230	231	DESCRIPTION
AUTOMATIC COUPLER ASSEMBLY					
4.30	227-73	228-10	230-10	231-10	Coupler Drumator Assembly
1.00	227-81	227-81			Locular Drumator Assembly
.10	227-81	227-81			Coupler Spring
.25	227-81	227-81			Coupler Rod
.10	227-82	227-82	230-22	230-22	Coupler Fork Assembly
.10	227-84	227-84			Turner Assembly
BOILER AND CAR COMPLETE AND PARTS					
.15	227-10	227-10	227-10	227-10	Asst. Pipe
.10	700E-230C	700E-230C	700E-230C	700E-230C	Asst. Complete
.10	227-11	227-11	227-11	227-11	Boiler and Cab Complete
.10	227-12	227-12	227-12	227-12	Grate Roll Nibs
.10	227-13	227-13	227-13	227-13	Grate Roll, Left
.10	227-14	227-14	227-14	227-14	Grate Roll, Right
.10	227-15	227-15	227-15	227-15	Headroll
.10	227-16	227-16	227-16	227-16	Headroll Bracket
.10	227-17	227-17	227-17	227-17	Headroll Stud
.10	227-18	227-18	227-18	227-18	Headroll Washer
.10	227-19	227-19	227-19	227-19	Headroll Nut
.10	227-20	227-20	227-20	227-20	Headroll Bolt
.10	227-21	227-21	227-21	227-21	Headroll Lock Washer
.10	227-22	227-22	227-22	227-22	Headroll Nut
.10	227-23	227-23	227-23	227-23	Headroll Washer
.10	227-24	227-24	227-24	227-24	Headroll Bolt
.10	227-25	227-25	227-25	227-25	Headroll Lock Washer
.10	227-26	227-26	227-26	227-26	Headroll Nut
.10	227-27	227-27	227-27	227-27	Headroll Washer
.10	227-28	227-28	227-28	227-28	Headroll Bolt
.10	227-29	227-29	227-29	227-29	Headroll Lock Washer
.10	227-30	227-30	227-30	227-30	Headroll Nut
.10	227-31	227-31	227-31	227-31	Headroll Washer
.10	227-32	227-32	227-32	227-32	Headroll Bolt
.10	227-33	227-33	227-33	227-33	Headroll Lock Washer
.10	227-34	227-34	227-34	227-34	Headroll Nut
.10	227-35	227-35	227-35	227-35	Headroll Washer
.10	227-36	227-36	227-36	227-36	Headroll Bolt
.10	227-37	227-37	227-37	227-37	Headroll Lock Washer
.10	227-38	227-38	227-38	227-38	Headroll Nut
.10	227-39	227-39	227-39	227-39	Headroll Washer
.10	227-40	227-40	227-40	227-40	Headroll Bolt
.10	227-41	227-41	227-41	227-41	Headroll Lock Washer
.10	227-42	227-42	227-42	227-42	Headroll Nut
.10	227-43	227-43	227-43	227-43	Headroll Washer
.10	227-44	227-44	227-44	227-44	Headroll Bolt
.10	227-45	227-45	227-45	227-45	Headroll Lock Washer
.10	227-46	227-46	227-46	227-46	Headroll Nut
.10	227-47	227-47	227-47	227-47	Headroll Washer
.10	227-48	227-48	227-48	227-48	Headroll Bolt
.10	227-49	227-49	227-49	227-49	Headroll Lock Washer
.10	227-50	227-50	227-50	227-50	Headroll Nut
.10	227-51	227-51	227-51	227-51	Headroll Washer
.10	227-52	227-52	227-52	227-52	Headroll Bolt
.10	227-53	227-53	227-53	227-53	Headroll Lock Washer
.10	227-54	227-54	227-54	227-54	Headroll Nut
.10	227-55	227-55	227-55	227-55	Headroll Washer
.10	227-56	227-56	227-56	227-56	Headroll Bolt
.10	227-57	227-57	227-57	227-57	Headroll Lock Washer
.10	227-58	227-58	227-58	227-58	Headroll Nut
.10	227-59	227-59	227-59	227-59	Headroll Washer
.10	227-60	227-60	227-60	227-60	Headroll Bolt
.10	227-61	227-61	227-61	227-61	Headroll Lock Washer
.10	227-62	227-62	227-62	227-62	Headroll Nut
.10	227-63	227-63	227-63	227-63	Headroll Washer
.10	227-64	227-64	227-64	227-64	Headroll Bolt
.10	227-65	227-65	227-65	227-65	Headroll Lock Washer
.10	227-66	227-66	227-66	227-66	Headroll Nut
.10	227-67	227-67	227-67	227-67	Headroll Washer
.10	227-68	227-68	227-68	227-68	Headroll Bolt
.10	227-69	227-69	227-69	227-69	Headroll Lock Washer
.10	227-70	227-70	227-70	227-70	Headroll Nut
.10	227-71	227-71	227-71	227-71	Headroll Washer
.10	227-72	227-72	227-72	227-72	Headroll Bolt
.10	227-73	227-73	227-73	227-73	Headroll Lock Washer
.10	227-74	227-74	227-74	227-74	Headroll Nut
.10	227-75	227-75	227-75	227-75	Headroll Washer
.10	227-76	227-76	227-76	227-76	Headroll Bolt
.10	227-77	227-77	227-77	227-77	Headroll Lock Washer
.10	227-78	227-78	227-78	227-78	Headroll Nut
.10	227-79	227-79	227-79	227-79	Headroll Washer
.10	227-80	227-80	227-80	227-80	Headroll Bolt
.10	227-81	227-81	227-81	227-81	Headroll Lock Washer
.10	227-82	227-82	227-82	227-82	Headroll Nut
.10	227-83	227-83	227-83	227-83	Headroll Washer
.10	227-84	227-84	227-84	227-84	Headroll Bolt
.10	227-85	227-85	227-85	227-85	Headroll Lock Washer
.10	227-86	227-86	227-86	227-86	Headroll Nut
.10	227-87	227-87	227-87	227-87	Headroll Washer
.10	227-88	227-88	227-88	227-88	Headroll Bolt
.10	227-89	227-89	227-89	227-89	Headroll Lock Washer
.10	227-90	227-90	227-90	227-90	Headroll Nut
.10	227-91	227-91	227-91	227-91	Headroll Washer
.10	227-92	227-92	227-92	227-92	Headroll Bolt
.10	227-93	227-93	227-93	227-93	Headroll Lock Washer
.10	227-94	227-94	227-94	227-94	Headroll Nut
.10	227-95	227-95	227-95	227-95	Headroll Washer
.10	227-96	227-96	227-96	227-96	Headroll Bolt
.10	227-97	227-97	227-97	227-97	Headroll Lock Washer
.10	227-98	227-98	227-98	227-98	Headroll Nut
.10	227-99	227-99	227-99	227-99	Headroll Washer
.10	228-00	228-00	228-00	228-00	Headroll Bolt
.10	228-01	228-01	228-01	228-01	Headroll Lock Washer
.10	228-02	228-02	228-02	228-02	Headroll Nut
.10	228-03	228-03	228-03	228-03	Headroll Washer
.10	228-04	228-04	228-04	228-04	Headroll Bolt
.10	228-05	228-05	228-05	228-05	Headroll Lock Washer
.10	228-06	228-06	228-06	228-06	Headroll Nut
.10	228-07	228-07	228-07	228-07	Headroll Washer
.10	228-08	228-08	228-08	228-08	Headroll Bolt
.10	228-09	228-09	228-09	228-09	Headroll Lock Washer
.10	228-10	228-10	228-10	228-10	Headroll Nut
.10	228-11	228-11	228-11	228-11	Headroll Washer
.10	228-12	228-12	228-12	228-12	Headroll Bolt
.10	228-13	228-13	228-13	228-13	Headroll Lock Washer
.10	228-14	228-14	228-14	228-14	Headroll Nut
.10	228-15	228-15	228-15	228-15	Headroll Washer
.10	228-16	228-16	228-16	228-16	Headroll Bolt
.10	228-17	228-17	228-17	228-17	Headroll Lock Washer
.10	228-18	228-18	228-18	228-18	Headroll Nut
.10	228-19	228-19	228-19	228-19	Headroll Washer
.10	228-20	228-20	228-20	228-20	Headroll Bolt
.10	228-21	228-21	228-21	228-21	Headroll Lock Washer
.10	228-22	228-22	228-22	228-22	Headroll Nut
.10	228-23	228-23	228-23	228-23	Headroll Washer
.10	228-24	228-24	228-24	228-24	Headroll Bolt
.10	228-25	228-25	228-25	228-25	Headroll Lock Washer
.10	228-26	228-26	228-26	228-26	Headroll Nut
.10	228-27	228-27	228-27	228-27	Headroll Washer
.10	228-28	228-28	228-28	228-28	Headroll Bolt
.10	228-29	228-29	228-29	228-29	Headroll Lock Washer
.10	228-30	228-30	228-30	228-30	Headroll Nut
.10	228-31	228-31	228-31	228-31	Headroll Washer
.10	228-32	228-32	228-32	228-32	Headroll Bolt
.10	228-33	228-33	228-33	228-33	Headroll Lock Washer
.10	228-34	228-34	228-34	228-34	Headroll Nut
.10	228-35	228-35	228-35	228-35	Headroll Washer
.10	228-36	228-36	228-36	228-36	Headroll Bolt
.10	228-37	228-37	228-37	228-37	Headroll Lock Washer
.10	228-38	228-38	228-38	228-38	Headroll Nut
.10	228-39	228-39	228-39	228-39	Headroll Washer
.10	228-40	228-40	228-40	228-40	Headroll Bolt
.10	228-41	228-41	228-41	228-41	Headroll Lock Washer
.10	228-42	228-42	228-42	228-42	Headroll Nut
.10	228-43	228-43	228-43	228-43	Headroll Washer
.10	228-44	228-44	228-44	228-44	Headroll Bolt
.10	228-45	228-45	228-45	228-45	Headroll Lock Washer
.10	228-46	228-46	228-46	228-46	Headroll Nut
.10	228-47	228-47	228-47	228-47	Headroll Washer
.10	228-48	228-48	228-48	228-48	Headroll Bolt
.10	228-49	228-49	228-49	228-49	Headroll Lock Washer
.10	228-50	228-50	228-50	228-50	Headroll Nut
.10	228-51	228-51	228-51	228-51	Headroll Washer
.10	228-52	228-52	228-52	228-52	Headroll Bolt
.10	228-53	228-53	228-53	228-53	Headroll Lock Washer
.10	228-54	228-54	228-54	228-54	Headroll Nut
.10	228-55	228-55	228-55	228-55	Headroll Washer
.10	228-56	228-56	228-56	228-56	Headroll Bolt
.10	228-57	228-57	228-57	228-57	Headroll Lock Washer
.10	228-58	228-58	228-58	228-58	Headroll Nut
.10	228-59	228-59	228-59	228-59	Headroll Washer
.10	228-60	228-60	228-60	228-60	Headroll Bolt
.10	228-61	228-61	228-61	228-61	Headroll Lock Washer
.10	228-62	228-62	228-62	228-62	Headroll Nut
.10	228-63	228-63	228-63	228-63	Headroll Washer
.10	228-64	228-64	228-64	228-64	Headroll Bolt
.10	228-65	228-65	228-65	228-65	Headroll Lock Washer

SERVICE BULLETINS



In addition to the service manual there were Prewar Service Bulletins that were available to service stations beginning in 1939. (Photo 6). Fifteen different service bulletins were published and mailed to service stations between 1939 and 1942. An introductory letter was sent in 1938 which explained the upcoming availability of information for service stations included "factory training in the form of complete information and electrical data on all Lionel equipment so that all employees of the service stations will be qualified to render thorough and intelligent service." This was followed by the admonition that a properly equipped service station "should carry a complete replacement parts stock, a handy tool kit, testing equipment such as THE LIONEL TEST SET and other standardized tools."



Included with the letter was service bulletin 101. Contents included 9 pages of service narratives and diagrams for couplers & trucks and operating cars. Finally, there were 5 pages of charts which provided repair estimating guides for each item.

REPAIR ESTIMATING GUIDE FOR "O" GAUGE LOCOMOTIVES

REPAIRS REQUIRED	NUMBER OF LOCOMOTIVE													
	259R	260E	261E	262	262E	263E	264E	265E	616E	636W 616W	700E	752E	752W	763E
Armature	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	2.00	1.30	1.30	2.00
Brushes	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	.90	.60	.60	.90
Shoe	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90	.90
Shoe Rollers	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	---	---	.25
Wiring	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25
Cleaning and Lubricating	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25
Gear Plate	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	---	.20	.20	---
Brush Plate	.60	.60	.60	.60	.60	.60	.60	.60	.60	.60	1.80	.60	.60	1.80
Bushings	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75	1.25	.75	.75	1.25
Gear	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40	---	.40	.40	---
Adjusting E Unit	---	.60	.60	---	.60	.60	.60	.60	.60	.60	.75	.60	.60	.75
Install 3 Position Unit	---	2.50	2.50	---	2.50	2.50	2.50	2.50	2.50	2.50	3.50	2.50	2.50	3.50
Maximum Charges	3.00	4.00	4.00	3.00	4.00	4.00	4.00	4.00	4.00	4.00	6.50	4.75	4.75	6.50

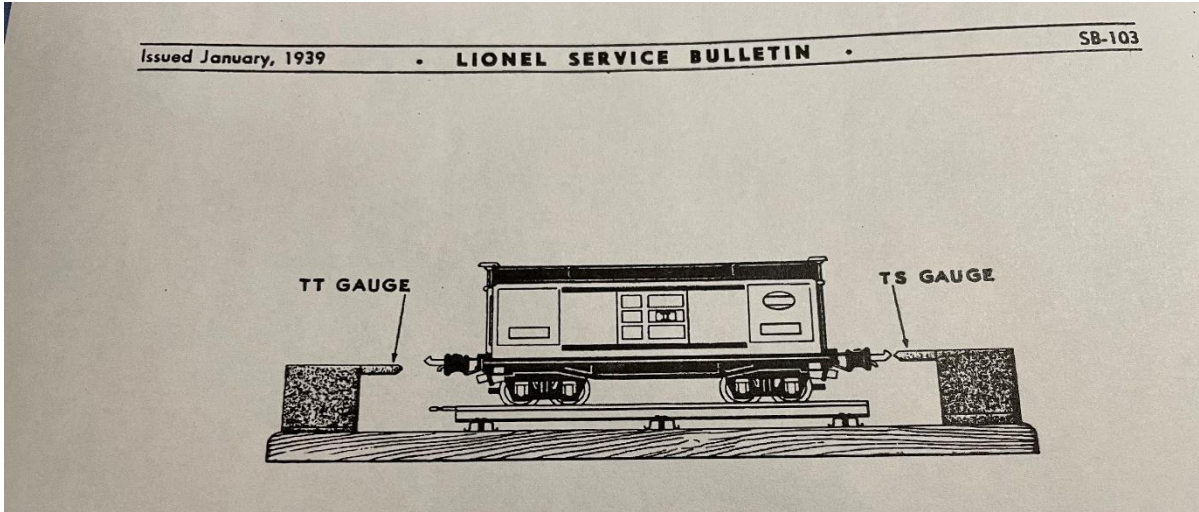
For the rest of the prewar period additional bulletins addressed various topics one of which was the suggested contents of the "Handy Tool Kit" needed by service stations. Others addressed whistles, coupler gauge set, whistle controllers, "general information on 1940 Switching Locomotives and Tenders" and many other topics.

SERVICE TOOLS

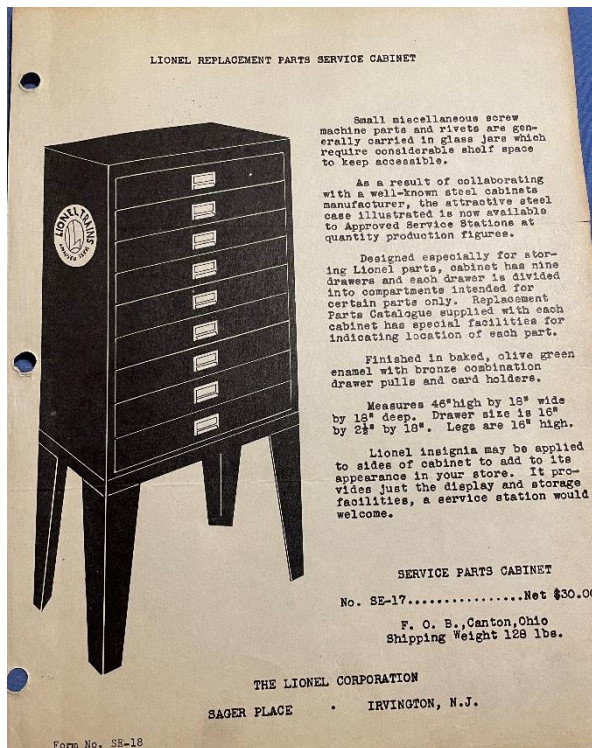
In addition to the 5, 5A and 5B Test Sets mentioned earlier I am aware of two additional tools Lionel made available in the prewar era. Both are scarce.

The first is the SE-1 Coupler Gauge Set which is illustrated in Service Bulletin 103 dated January 1939. Lionel found that the most frequent problem with electro-magnetic couplers was the "misalignment coupler hooks." If the hooks are not aligned properly the cars will not couple or uncouple freely. The SE-1 is Lionel's remedy to the problem.

The picture below shows that the SE-1 is simply a wood block 2 ¾ inches by 20 inches with sections of O-Gauge



track attached. In addition, there are two accurately machined blocks to set coupler hook height. Each block has a point or ridge on it that exactly matches the correct coupler hook height for a prewar high coupler (TS) and another for the low coupler (TT). A piece of rolling stock was placed on the track section and the coupler hook was compared to the appropriate block. Adjustments were made with hand tools. The SE-1 was sold to service stations for \$2.50.



I have never seen the final tool and not many know about it. It is the SE-17 Lionel Replacement Parts Cabinet. There is nothing much I can say about it beyond what is printed in the Service Bulletin. I theorize some other entity manufactured it and Lionel simply put a Service Logo on it. I found the bulletin inside the covers of a prewar service manual.

This concludes my article on Lionel Prewar Service Tools & Documents. If interested I can share sources for reproduction documents.

I welcome questions, corrections, and additional information from any reader.

David Osborn 75-7280 President, Gateway Chapter.

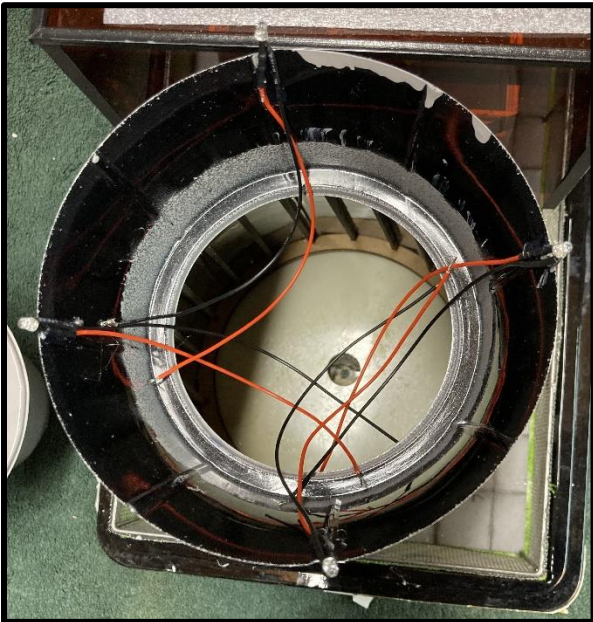
Nuclear Power in Brennanville!

I am truly a child of the atomic age. Born in the mid-forties, by the time of my grade school days, I was reading my father's Civil Defense documentation. Dad was the Civil Defense coordinator for the small town of Davis, SD. I grew up reading every document that the government saw fit to send the Civil Defense coordinator for a town of 125. Documents detailed how to build an underground fall-out shelter. If you did not have an underground shelter, where were the best places in your house to take cover (the basement), store fresh drinking water (bathtub), and how to prepare food in a powerless environment.

Somehow, we survived the fifties and the cold war. In the 60s I took on one of the most complicated model kits I ever built, Revell's Nuclear Power Plant. Pipes and parts went everywhere. I wish I had that model today. In the late sixties, college found me working in the Physics Department at the University of South Dakota. One of my jobs was to count background radiation for the Pathfinder Nuclear Power Plant near Sioux Falls, SD. No, I did not run around with a Geiger counter in hand, rather I would receive filters from vacuum cleaner type devices, located in the area around the Pathfinder plant. The filters would be burned, and I would count the background radiation in the ashes.



Fast forward 55+ years and we have the introduction of Menard's model of Oak Point Nuclear Power Facility. This model brought back many memories and I had to have it. As with other Menard's buildings, this model was terrific, and the price was right. The transformers on the left have red blinking LEDs. To the right is a plastic model of a cooling tower and in front are two figures, even including their dog, Jack. However, the main attraction is in the reactor building in the center. Inside this building is a disco ball like configuration. Streaks of colored lights are created on the walls by the rotating ball. In my imagination the streaks of light are atomic particles flying out of the reactor. The streaking lights are amazingly effective in the dark. The model is set on a green grass base and surrounded by simulated woven wire fence. The warning signs on the fence are a neat addition.



As I looked at the model, it seemed to me that the cooling tower should do something. I thought that I could solve this problem by adding smoke units in the tower to simulate steam. I also decided to add four flashing red LEDs to the top of the tower. After all the cooling tower is the tallest part of the model and we need to warn aircraft in the area to stay clear. The photo on the left shows the top of the Cooling Tower removed. I hot glued the LEDs to the side of the tower.



The next step was to fabricate a holder for the smoke units. Now, I am one of those guys that never throws anything away, and from my stash of containers, I found a plastic supplement container that was exactly the right diameter. After cutting the cylinder to the right height, I covered one end with screen wire. I made small slits in the screen wire and pushed in the Sueth smoke units. I had decided to use three smoke units, they produce a genuinely nice stream of steam.



The container forms a “chimney” and the smoke streams nicely upward. I cut the center out of the cooling tower top and placed it over the smoke unit’s container. The photo on the left shows the installation of the top with smoke units and LEDs. I should add that the three smoke units put out a LOT of smoke. To fix this problem, I hid a SPST switch in the layout facia, so I could turn the smoke on only when showing the model, otherwise the room fills up with smoke.

The picture below shows the power plant in action. Note the streaks of light on the wall and the “steam” rising out of the cooling tower. Yes, the spherical ball to the right is the Lionel Nuclear Reactor.





The story does not end here. In May of 2022 I had a water pipe burst over the part of the layout called Brennanville. The citizens of Brennanville call it the great flood of '22. In rebuilding the city, the government took over what used to be the city park and allowed the installation of the nuclear plants. It seems that some guy from government called Emmet Doe Main, said they could take the land away. The citizens of Brennanville are not happy about the installation of nuclear power plants, literally in their back yards. The picture at left shows the citizens protesting. The protests continue, even today.

If you would like to see a short video of the nuclear plant in action, click this [LINK](#).

Don Miller 06-59842, Newsletter Editor, with Brad Marples HE95-41819, Past President

Members celebrating 50-year TCA membership:

HR73-5233 L. E. Bartholomee, Thayer, MO

HR73-5923 Dean Williams, Sand Springs, OK

Members celebrating 25-year TCA membership:

98-47139 Donald R. Hanson, St. Louis, MO

98-47141 Charles Bailey, Lake St. Louis, MO

98-47269 David C. Conwell, Tulsa, OK

98-47742 Bartolomeo J. Castelli, Imperial, MO

98-48374 Terry Moore, Lamar, MO

CHAPTER ACTIVITIES

Gateway Chapter, St. Louis

The Gateway Chapter held its Fall meeting on Sept 17th at the National Transportation Museum in St. Louis. There were about fifteen members present. We started off with show and tell by those present. David Aholt presented the early 4-wheel prewar O gauge freight cars. The cars were cataloged from 1915 until 1935. After 1935 they were included in uncatalogued promotional sets and specials. Eric Stracklejahn showed an Ives mechanical unit train which consisted of gondolas. Bob Osterhoff shared some original Lionel correspondence. This generated a lot of discussion about Lionel's military contracts. Finally, Chris Hanewinckel shared some AMT passenger cars.

Greg Hake's talk presented how Lionel boxes can be restored to look original. Greg was followed by a 45-minute video about toy trains and plastic. Dr. Joe Lechner described a chronology about the several types of plastics used in producing toy trains which included how the molds were built and used.

General fellowship completed our afternoon.

We look forward to our January meeting and growing our membership. If anyone is interested in joining, please email me at postwar.do@gmail.com.



The chapter's Facebook page is [St Louis Gateway Chapter of the TCA](#).

Central Missouri Chapter Report, September 2022

Our monthly meetings continue and are usually the first Wednesday of each month.

Our open house was on Saturday, August 20th. We had 238 visitors who viewed the seven train layouts from N to G gauge. All layouts were operating and gained lots of interest.

A special thanks to all who participated in the event by running trains, assisting in setting up and breaking down the layouts.

Sarah from Parks and Recreation was there all day and cleaned after we were finished. She (they) also provided food for lunch for us. Ben Colley and Dennis James provided donuts.

Tom Hourigan has an O gauge layout that we placed in the basement. He, and whoever is interested, will rebuild it (I am in for that). Maybe a few workdays and a lot of elbow grease can bring the layout back to life.

Our next project is the November 5 Swap Meet that will be held at the Columbia Senior Activity Center, 1121 Business Loop 70 East, Columbia, MO. Our Facebook page is [mid-motrainclub](#).



HOA Chapter News June 2022

June: Received a thank you note from the President, Mo-Kan Garden Railroaders with the comment “we look forward to future collaborations.” Wayne Lang is a TCA-HOA member, Karen Lang hosted the HO layout in the basement display and Bruce MacP. (TCA-HOA) assisted Wayne in the garden.

July: No chapter events were scheduled. We continued to receive chapter membership submissions for the HOA Facebook page.

August: TTOS National Convention had three HOA members on their layout tour (Don M., Dave S., Darin G.); they were presented with appreciation certificates along with invitations to the convention dinner; several TTOS - TCA members commented that they were glad to see the TTOS – TCA cooperation; a member has referred a speaker for the annual meeting (current train engineer); BOD mtg held to finalize activities and events for the year, at this meeting was a prospective new HOA Chapter Director (Dwight C.). The Board has decided to conduct a brief survey of the membership (by email). The survey will help us plan activities; determine where members' interests are and continue communication with the membership.

Our annual meeting will be held on Saturday, December 10, 2022.

September: Layout Tour was hosted by Barbie & Keith Marquis, Independence, MO. Keith has been revamping his whole basement ‘O’ and Super “O” scale layout for over a year. It has been since 2015 that the layout was last on tour. Keith has done an excellent job and the membership is in for quite a treat.



Our Facebook page is [Heart of America TCA Train Club](#).

Train Related Activities in the Ozark Division geographical Area

Edited by Darin Grant 11-65910, VP Ozark Division

September 24th, 2022: Pacific Eagles Train Show

Saturday 10:00am – 3:00pm

707 W. Congress Street, Pacific, MO

October 1-2nd, 2022: Topeka Model Railroaders Train Show & Swap Meet

Saturday 10:00am – 6:00pm, Sunday. 10:00am – 3:00pm

Great Overland Station

701 N. Kansas, Topeka, KS 66608

topekamodelrailroaders@gmail.com

October 1-2nd, 2022: Wichita Toy Train Club Train Show

Saturday 9:00 am – 5:00pm, Sunday 10:00am – 3:00pm

Cessna Activity Center, 2744 George Washington Blvd., Wichita, KS

Admission \$7, Children 12 and under free

Info: <http://www.wichitatomytrainmuseum.org>

October 8th, 2022: October TCA HOA Layout Tour and Garage Sale

Saturday 9:00am – 2:00pm

Leawood, KS

More details coming soon!

October 8th, 2022: Ozarks Windup Train Meet

Saturday 9:00am – 3:00pm

1538 West Washington, Marshfield, MO 65706

Info - winduptrainguy@aol.com

October 8th, 2022: Greater Tulsa Area Train Show
Saturday 9:00am – 3:00pm
Bixby Community Center
211 N Cabaniss, Bixby, OK 74008
Admission \$5, Children 18 and under free
Info – <http://www.ttos-soonerdiv.org> for this long running train show!

October 8-9th, 2022: Greater St. Louis Metro Area Show
Saturday 10:00am – 4:00pm, Sunday 10:00am – 3:00pm
111 S. Geyer Road, Kirkwood, MO

October 20, 21, 22, 2022: York Train Meet Eastern Division TCA
York State Fairgrounds, 334 Carlisle Ave, York, PA 17404

October 22nd, 2022: Lake of the Ozarks Train Club Train Show
Saturday 9:00am – 3:00pm
Community Christian Church, 1064 N. Business Route 5
Camdenton, MO 65020

November 5th, 2022: 25th Annual Swap Meet-Central Missouri Chapter of the TCA
Open to TCA and sponsor members at 9:00am, to the public at 10:00am - 3:00pm
Columbia Senior Activity Center, 1121 Business Loop 70 East, Columbia, MO 65201
(Flyer at the end of this Newsletter)

November 6th, 2022: Train, Toy & Railroadiana Swap Meet
Sunday 9:00am – 3:00pm
Woodshed Venue
1901 N. Kansas Ave., Topeka, KS 66608
beach.bobo@yahoo.com

November 12-13th, 2022: Trainfest 2022 presented by Kalmbach Media and the Great American Train Shows
Saturday and Sunday 9:00am – 5:00pm
Wisconsin State Fair Park, 8200 W Greenfield, West Allis, WI 53214

December 3rd, 2022: TCA Greater St. Louis TCA Swap Meet
9733 Olive Blvd., Olivette, MO 63132 (Flyer at the end of this Newsletter)

December 3-4th, 2022: Great Train Show
Overland Park Convention Center
6000 College Blvd., Overland Park, KS 66211

Robert M. English 96-43303 – President
5 Exmoor Dr. Saint Louis, MO 63124
314-989-9479
englishes@charter.net

Darin Grant 11-65910 – Vice President
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dgrant@kc.rr.com

Dennis James 02-54131 - Secretary/Treasurer, President - Central MO Chapter
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Ballwin, MO 63011
314-239-7996
jonlstrains@netscape.net



**GREAT ST. LOUIS CHRISTMAS
TRAIN SHOW & FOOD DRIVE
REGISTRATION FORM**

**SATURDAY – DECEMBER 3, 2022
IMMANUEL LUTHERAN SCHOOL
9733 OLIVE BLVD.
OLIVETTE, MO 63132
9 am to 3 pm
ADMISSION \$5 PER PERSON
(\$4 WITH NON-PERISHABLE FOOD ITEM)
CHILDREN 12 AND UNDER FREE
REFRESHMENTS
ATTENDANCE PRIZES
OPERATING DISPLAYS
ALL GAUGES REPRESENTED**

All vendor space is available on a first come basis – no telephone registrations accepted. **ALL TABLES ARE \$16;** no split tables and no more than two helpers per vendor. Vendor set from 7 am on show day morning. Please complete the lower portion and mail with your payment as directed; please include a stamped self-addressed envelope for show conformation. Please make your check payable to Ozark Division and mail to Ozark Division, 810 Windmill Dr., Ballwin, MO 63011. **CANCELLATION PROCEDURE** – All vendor cancellations must be in writing and must be postmarked five days before show day. **NO SHOWS** will forfeit their registration fee. Refunds will be made only when the show is canceled by the host facility or show producer. Show will go on regardless of weather. Friday night set-up 6 pm to 9 pm.

For more information about the show contact Jon Lundvall at 314-239-7996 or at jonlstrains@netscape.net

(CUT ALONG LINE BELOW)

(PLEASE PRINT CLEARLY)

NAME: _____ TCA #: _____

ADDRESS: _____ PHONE #: () _____

HELPER NAMES: _____ E-MAIL ADDRESS: _____

NUMBER OF TABLES: _____ X \$16 = \$ _____ AMOUNT ENCLOSED

TRAIN COLLECTORS ASSOCIATION COMPLIANCE STATEMENT:

I agree to comply with all the rules and regulations of the Ozark Division and the Train Collectors Association. I agree that all items sold by me to any TCA member or other persons at any Ozark Division – TCA sponsored train show, train meet, swap meet or any other event shall be sold on the basis "I represent all such items are authentic and in the manufacturer's original condition; otherwise any such item will be appropriately marked as a restoration/and or reproductions per TCA National Condition & Grading Standards";

<http://www.tcamembers.org/standards/condition.html> 12/4/2021

Signature of Vendor: _____

St. Louis Gateway Chapter - Central Missouri Chapter - Heart of America Chapter



Central Missouri Chapter of the TCA, Ozark Division

Columbia, Missouri

25th Annual Swap Meet

Columbia Senior Activity Center
1121 Business Loop 70 East
Columbia, MO. 65201

Saturday, November 5, 2022

Open to TCA and sponsor members at 9:00 AM
To the public at 10:00 AM to 3:00 PM



Tables \$10.00 each Vendor Setup: 7:30 – 9:00 AM

Admission \$5 per person to benefit the Senior Activity Center.
Children under 12 free

Directions to the Senior Center::

From the west: I-70 to exit 127, right onto Rangeline and left on Bus. Loop 70, Senior Center on the left.

From the east: I-70 to exit 128 (exit is on the left) which becomes Bus. Loop 70, Senior Center on the right.

-----Cut Here and Return ONLY the Table Registration Form-----

Name: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Email address: _____

I want to reserve _____ Tables \$10.00 each. Amount: _____

Will you supply a door prize? (Yes) (No)

A. "I agree to comply with all of the rules and regulations of the Train Collectors Association (TCA) and its Division and Chapters in effect from time to time, especially including all rules and regulations of all TCA Committees and any actions and rulings of all TCA Committees."

B. "I also agree that all items sold by me to any TCA Member or at any TCA sponsored meet shall be sold on the basis that I represent that all such items are authentic and in the manufacturer's original condition unless I have caused any such item to appropriately marked as a restoration or reproduction."

**For more information call Monday – Friday from 6:00 PM to 9:00 PM until November 3, 2022
Call Ben 573-819-8250 or Dennis 636-448-2465**

**Make checks payable to Central Missouri TCA and mail to:
Ben Colley
6406 E. Ash Grove Lane
Hallsville, MO 65255**