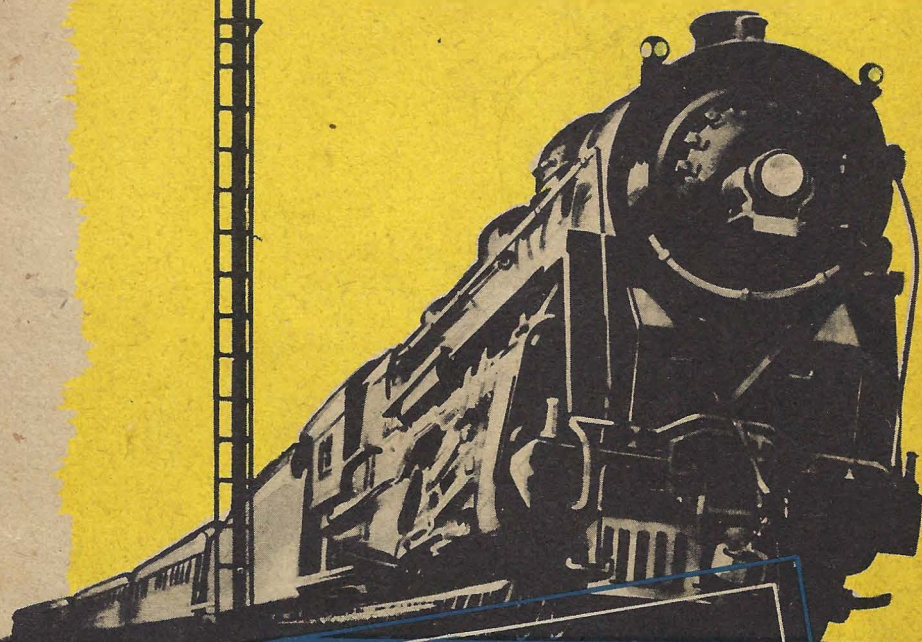




PLANS

and BLUE PRINTS



*for Lionel
Model Railroaders*



Hi, Fellows!

**"LET'S START BUILDING
OUR LIONEL RAILROAD —
LET'S GO, NOW!"**

Now that Lionel has finished its war job for Uncle Sam and Lionel Trains are back again — let's get going, fellows!

Soon we'll have plenty of track, switches, signals, locos, and rolling stock. Soon, we'll have new Lionel railroad accessories the like of which you never dreamed of.

Start planning the kind of Lionel railroad you've always wanted. Then

begin building the layout, so that when all the new Lionel equipment is ready all you have to do is throw the switch, and let 'er roll!

That's the purpose of this little book — to give you ideas and suggest easy and inexpensive ways to build. Read every page carefully. Talk it over with Dad. His advice and help is very important. And don't forget to get mother on your side, too.

**"DAD WILL HELP BECAUSE
HE'S GOOD AT BUILDING
THINGS!"**



BEDROOM?

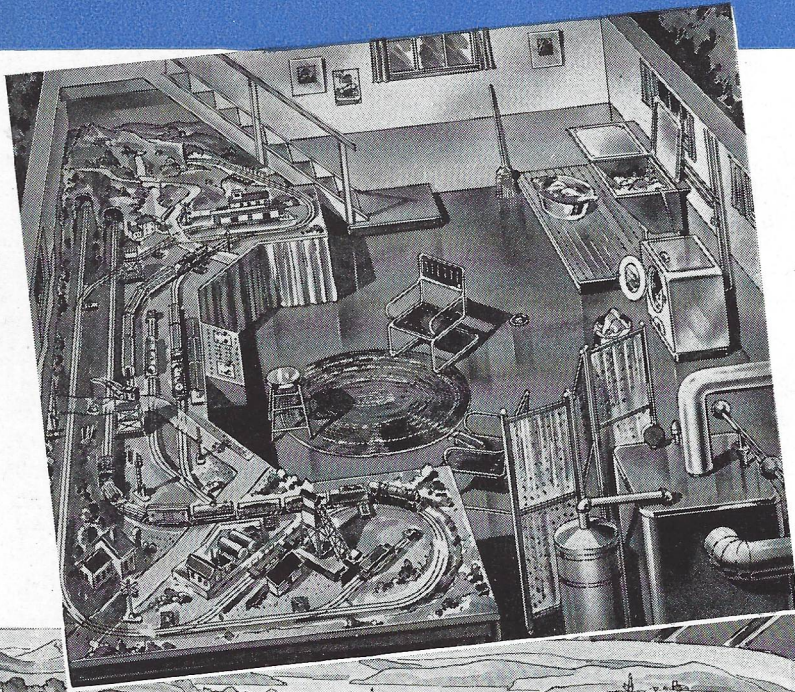
BASEMENT

ATTIC...



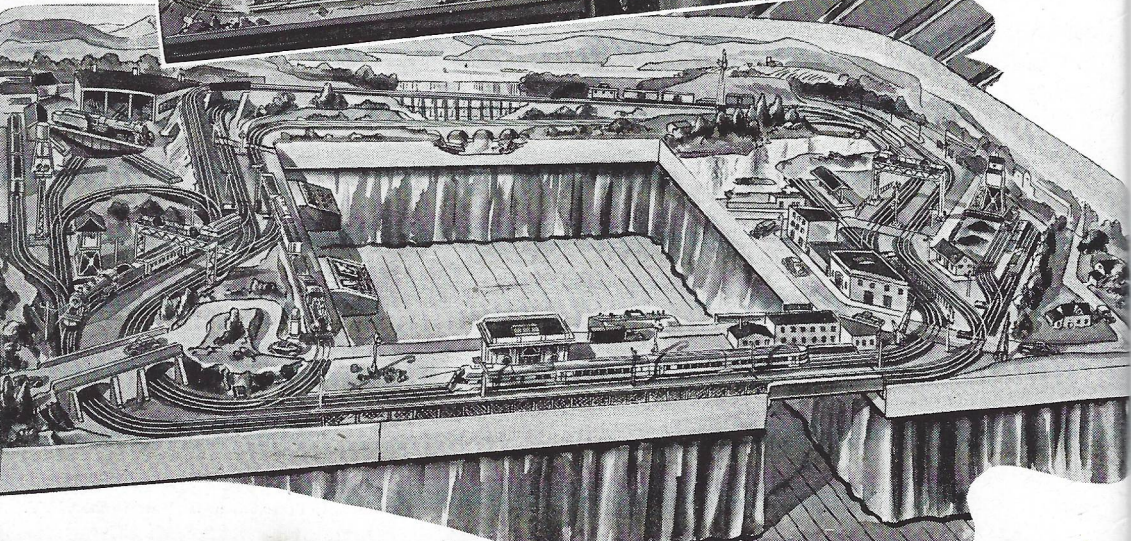
**"WHERE'S THE BEST PLACE
FOR MY LIONEL TRAIN LAYOUT?"**

Begin with a family conference — Dad, Mother, and maybe your big brother. Talk the whole thing over. The first thing to decide is where to put the track layout for your Lionel Railroad.

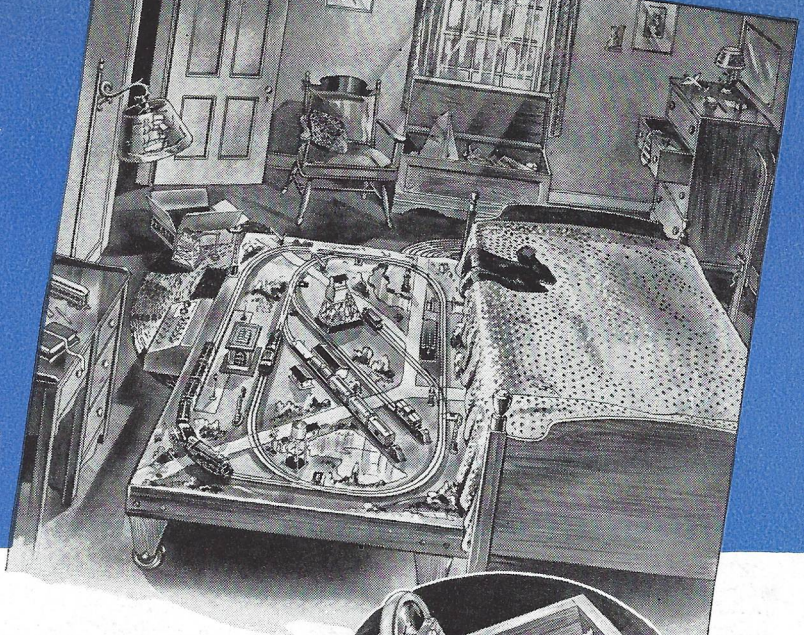


**IN THE
CELLAR**

**IN THE
ATTIC**



IN THE BEDROOM

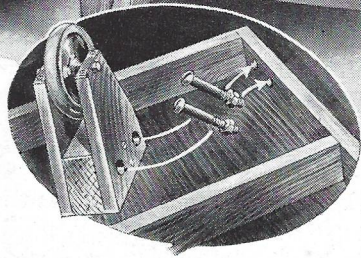


You may find that a bedroom layout like the one above is the most practical plan if space is at a premium in your house.

On the other hand you may find lots of good room and light in the attic — or the cellar layout may be the perfect answer.

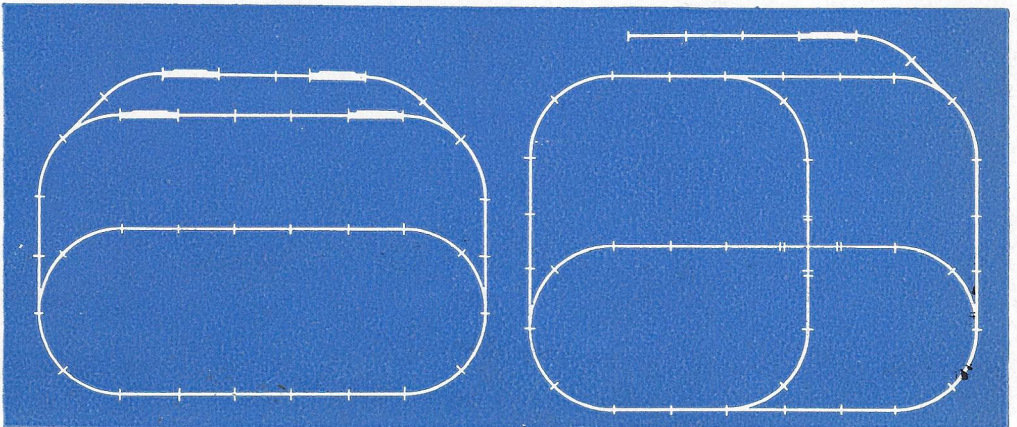
That's why it is so necessary to talk the whole thing over with the folks. You know Dad will be your biggest booster, because he is going to get a keen thrill out of Lionel railroading, too.

Watch his alert interest when he finds out what you want to do, and how much you need his help.



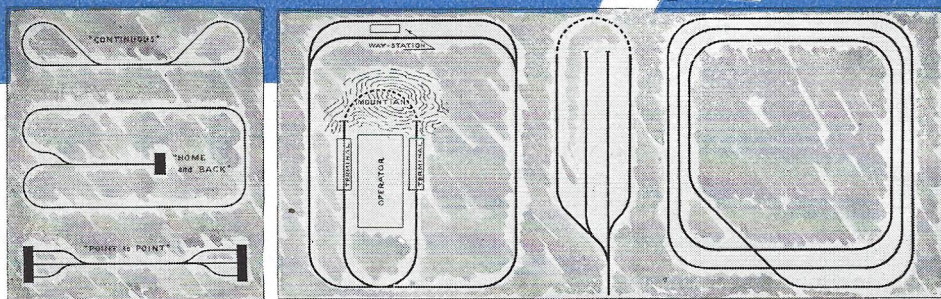
The ideas in this book will suggest other ideas to him — original ideas which he will help you carry out in building your track layout and scenery.

Mother will be real cooperative, too, because she wants you and Dad to be real pals. And nothing makes for such Dad and son comradeship as Lionel railroading.



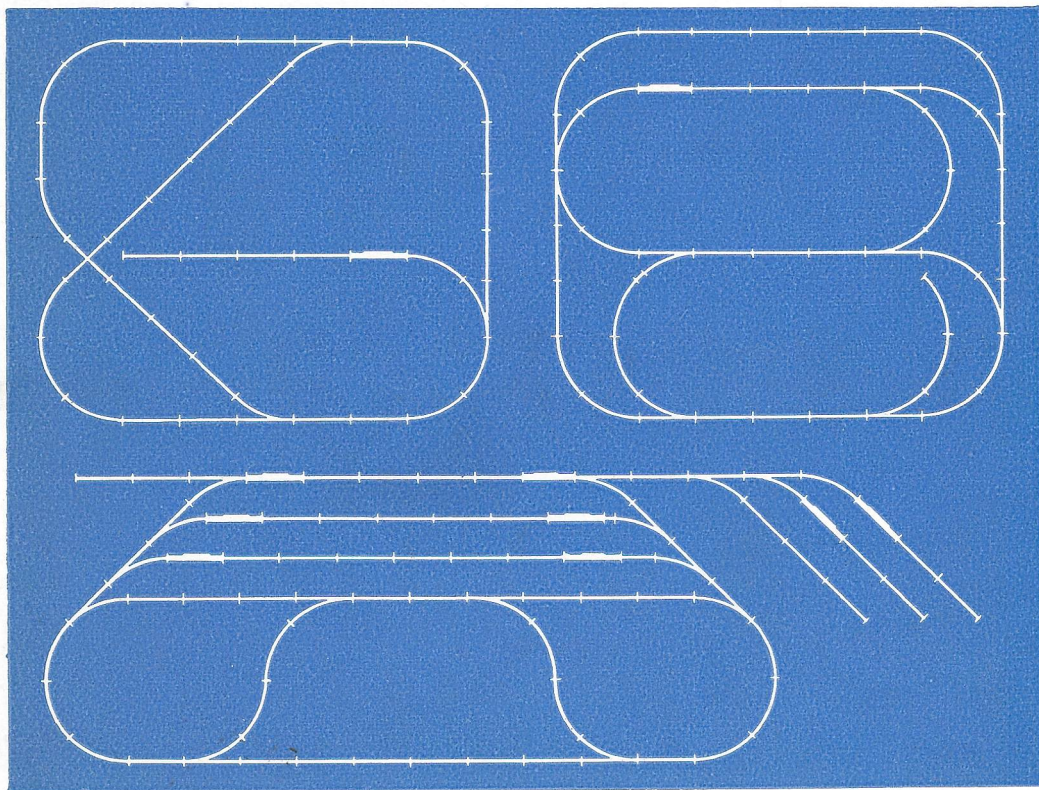
"NOW TO PICK A TRACK LAYOUT SUITED TO THE SPOT—"

That's where this book comes in. It is full of suggestions, as you can see. Determine the kind of track layout you want—then go ahead and build.

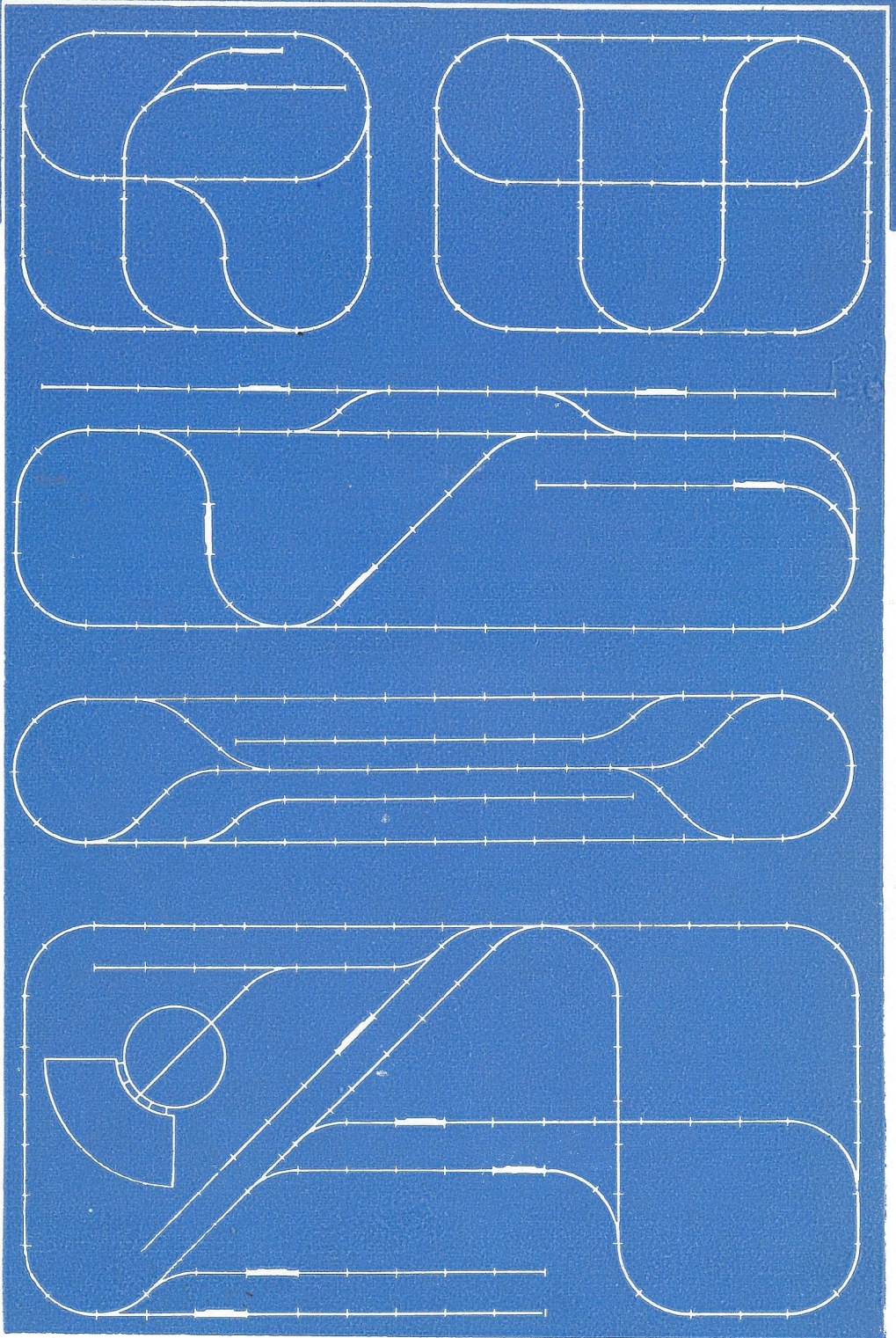


There are three types of track layouts. One is a circle, another a straight line, and the third like the letter Q. The first is known as the "continuous" layout—since it is a single loop or oval. A "point-to-point" layout is the

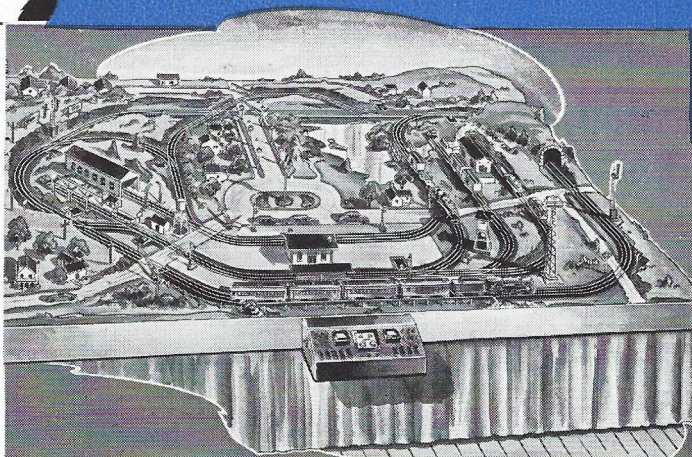
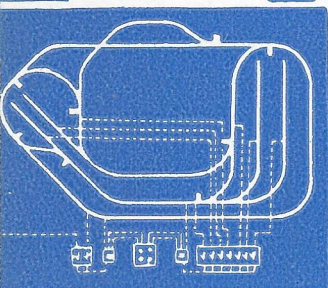
second type. It has two terminals with a stretch of straight track between them. The third layout is called "home-and-back" and contains only one terminal feeding into a continuous track circuit. The choice is yours.



**"GET OUT THE RULER DAD,
AND HELP ME MEASURE THIS"**

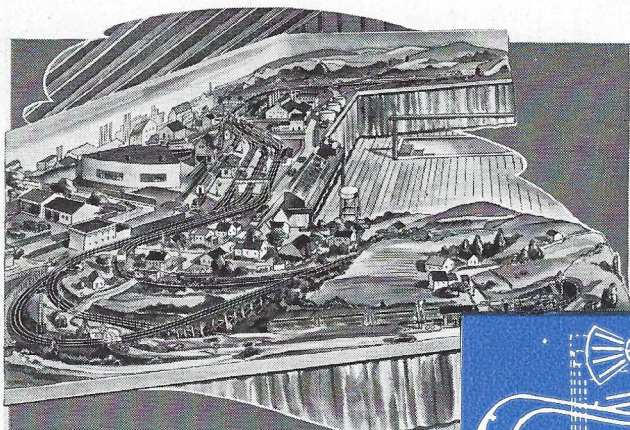


**"DAD DREW THESE SKETCHES
OF HOW OUR LIONEL RAILROAD
MIGHT LOOK, HE WANTED
NOTHING TO GO WRONG."**

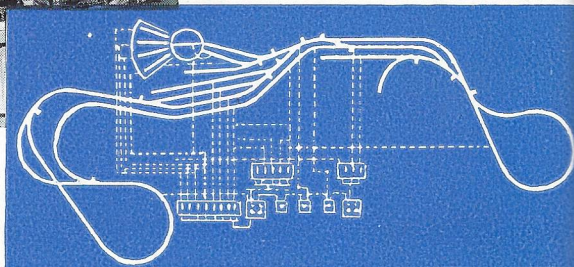


Dad's pretty good at drawing. So he sat down the other night and sketched these four layouts. Look them over. They are swell, aren't they? And not hard to build. I'm not going to tell you which one we picked, be-

cause every fellow has his own ideas. But you are at liberty to take any one of these you like. I'll bet I know which one you are going to pick!

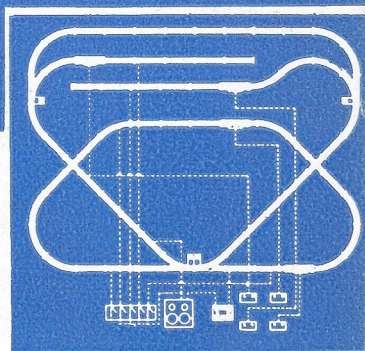
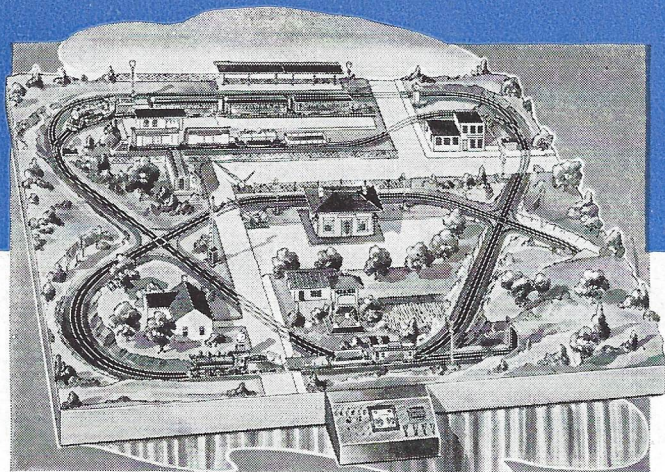


The top layout will permit the operation of two trains at the same time. One engineer can feed trains into the main line, where the second engineer will take over their control. This layout enables trains to be reversed when traveling in either



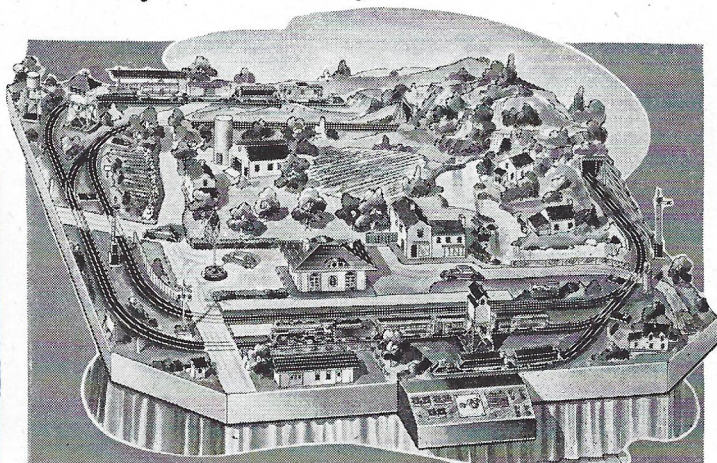
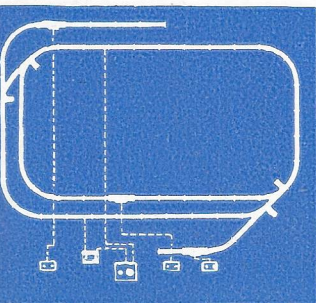
direction. The bottom layout we call the complete attic road.

**"WHICH ONE DO YOU LIKE BEST
OF THESE FOUR IDEAS?"**



This is a small two-train railroad idea. How do you like it? The track layout is sectionalized, the main tracks being broken into four sections, each controlled by a toggle switch. The two sidings shown in the layout

plan can be used as passing tracks or for the storage of surplus cars. Two pairs of switches and two crossings provide several routes for the passenger and freight trains which this Lionel system will accommodate.

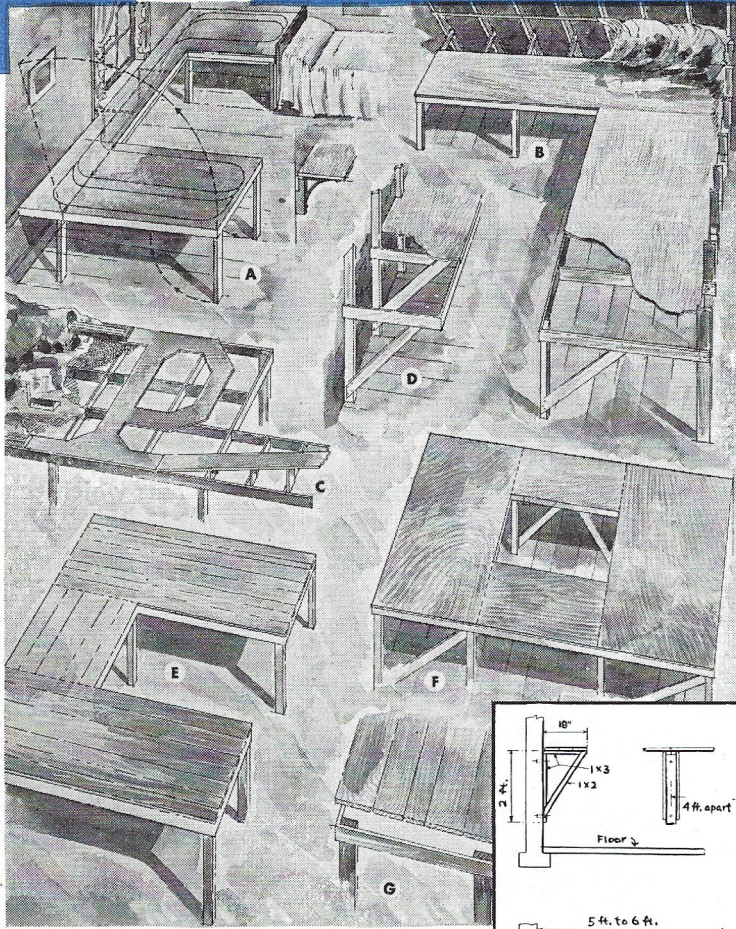


This shows a single loop, double-tracked half way, and two sidings. This layout is designed for "0-27" track. It is small enough to be placed on end against a wall when not in use. Of course in this event the table must

be built strongly, and the legs made collapsible. The various accessories such as signals and stations are fastened to the platform. This, Dad says, is a very easy layout to construct. I guess your Dad will say the same.



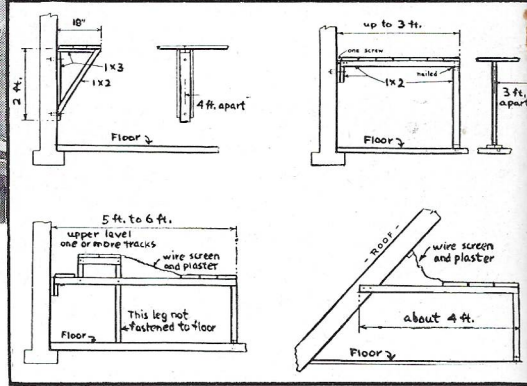
"NOW WE BUILD OUR TABLE OR SHELVES TO HOLD THE LIONEL RAILROAD."



"DAD IS GETTING FUN OUT OF THIS, TOO."

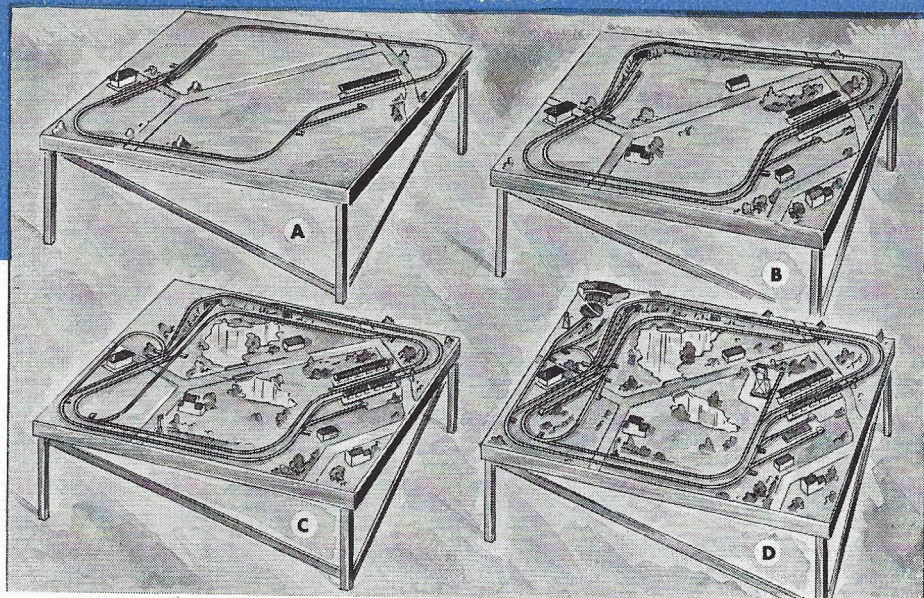


Now that you have selected your track diagram, the platform of proper shape should be planned. Here are a few suggestions. Dad says to build your platform supported by two-by-two or two-by-four lumber for legs. This makes a good strong platform. Whenever possible, fasten the structure to the wall or columns, because



anchoring to the wall increases the rigidity of the fixture. Just show these sketches to your dad. He will know how to construct your platform.

"HERE ARE MORE TRACK LAYOUT
IDEAS WE'RE CONSIDERING."



PLAN YOUR RAILROAD TO GROW – USING THESE SUGGESTIONS

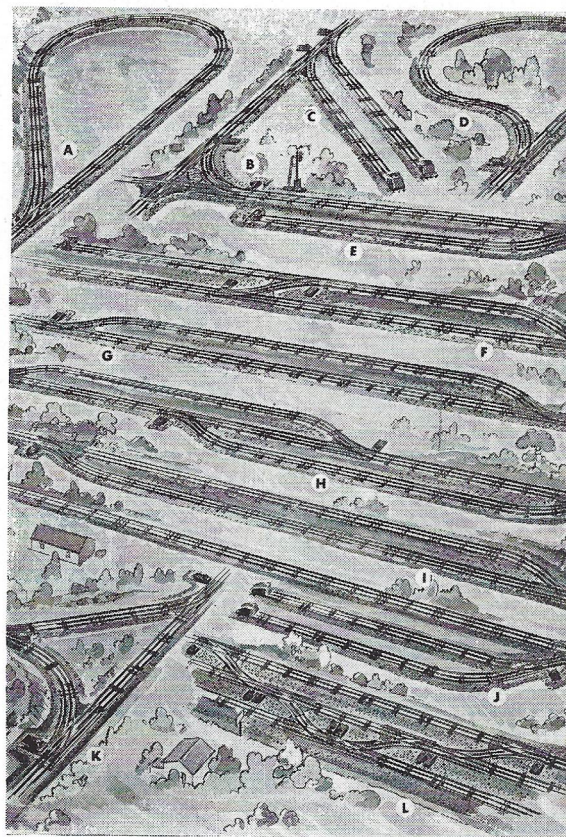
A and D indicate methods of building reversing loops. In order to reproduce the shape in the first diagram, without distortion, use a very short piece of straight track cut from a full length section. B shows a crossing and two "0" gauge switches fitted together at intersecting lines. C, E, F and J show turnouts for freight or industrial sidings on a single track main line.

Three different types of passing tracks, made with regular "0" gauge sections, are shown in sketches G, H and I.

Sketch K is shown as a wye and may be used in yards around terminals for reversing the direction of the locomotives or trains.

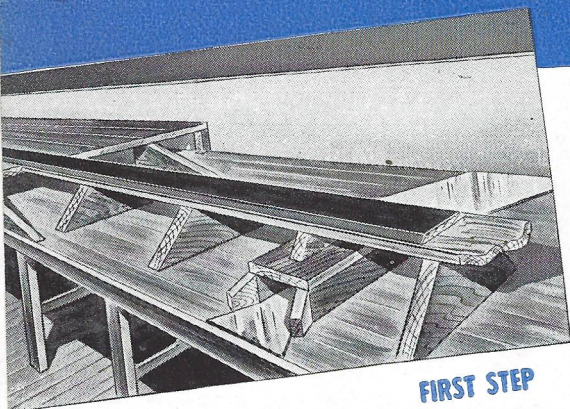
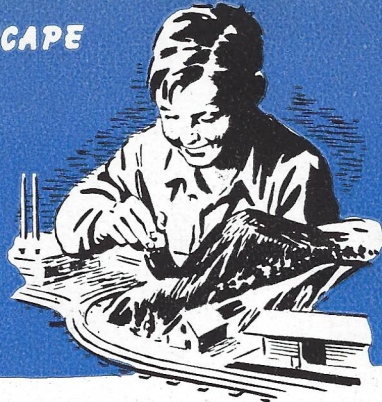
Sketch L indicates a switching arrangement for a three track line.

It is always best to plan your railroad so you can add to it from time to time—making it bigger and finer as the years go on. Note the interesting track suggestions above.

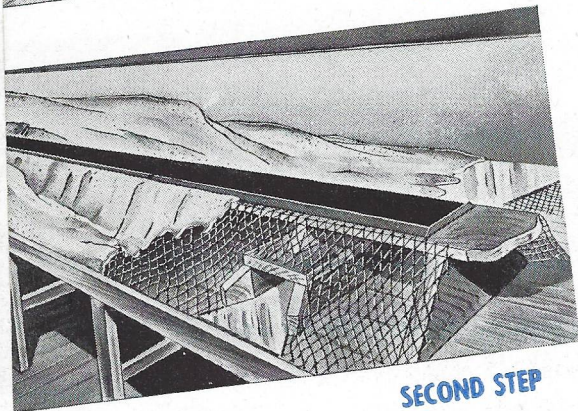


"AND WE'RE GOING TO LANDSCAPE OUR LAYOUT, TOO."

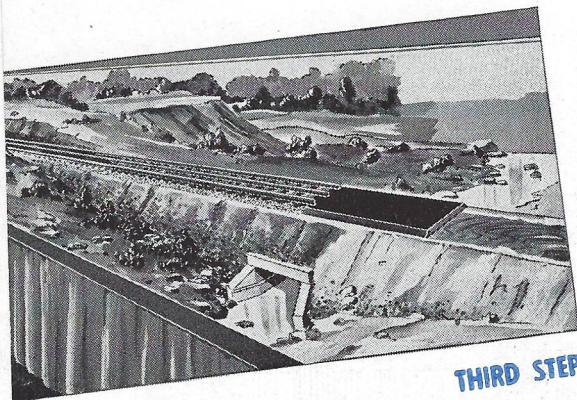
Dad says nothing improves the appearance of a model railroad so much as realistic track work. So — we're going to landscape our Lionel railroad.



FIRST STEP



SECOND STEP



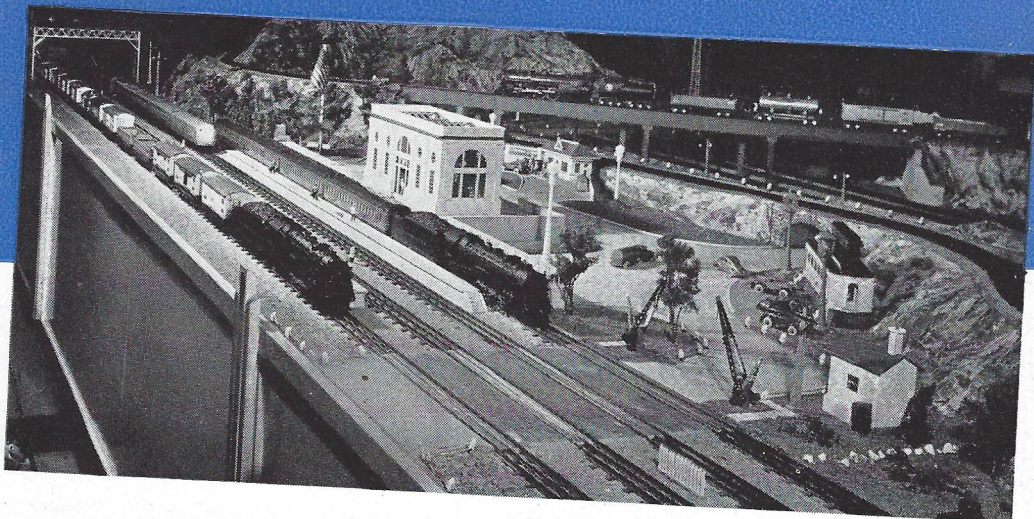
THIRD STEP

In building a realistic ballasted "O" Gauge roadbed, the sections of track first are mounted on a board in long sections. The sections of track are attached to the boards with small screws. Surrounding ground-work on the track beds is built of plaster or papier-mache. The only other thing that must then be done to complete the model track is to obtain finely sifted ballast from a roofing company, and apply it between the ties. This may be done by using glue, shellac, varnish, or any other adhesive. While still wet, the ballast is sprinkled over the track base. Any glue and ballast that gets on the rail or ties is easily scraped off. The ditches on the side of the track are modeled and painted with dull greys and browns.

Avoid severe grades in building your model railroad. The climb must not be too steep. The simplest way to build a mountain division is to fasten all the elevated portions of track on wooden boards supported at regular intervals by short blocks.

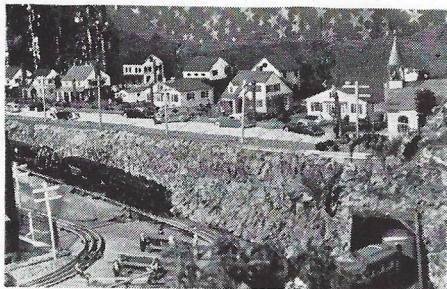
You can landscape your railroad in any number of ways. This is where your own ideas and ingenuity come in. Besides Dad will have some thoughts on the subject, too, on how to create effective landscaping. Only a few suggestions are shown here.

**"LANDSCAPING MAKES OUR LIONEL RAILROAD
MORE REAL AND LIFE-LIKE."**

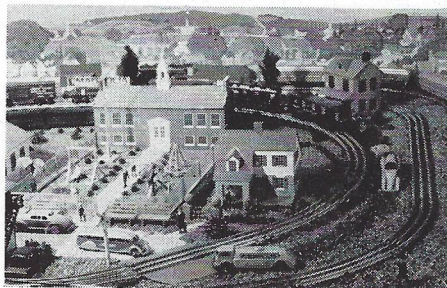


Dad and I figured out a variety of good landscaping ideas to make our railroad look like real countryside. It's easy. It takes a little time, but it's swell fun. It's up to you to create your own. Maybe a farm scene, or a

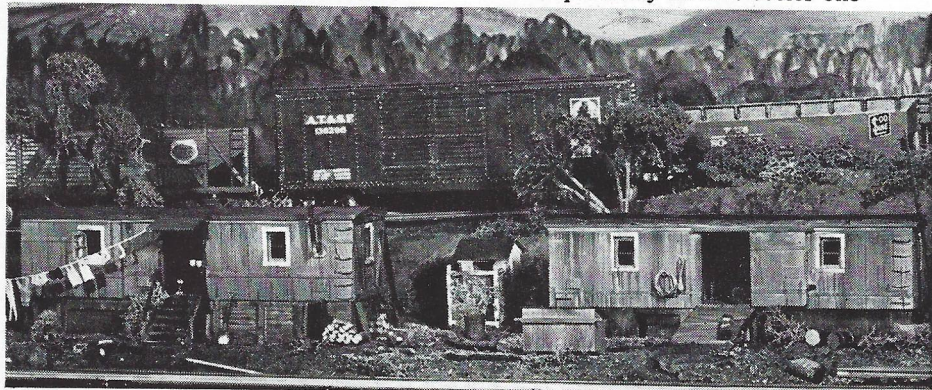
factory layout, or a suburban city terminal. Once your track layout is up you will imagine lots of clever things to do to create striking railroad realism. I'm sure you will find the suggestions on these pages very helpful.



Construct it little by little until your model pike is complete

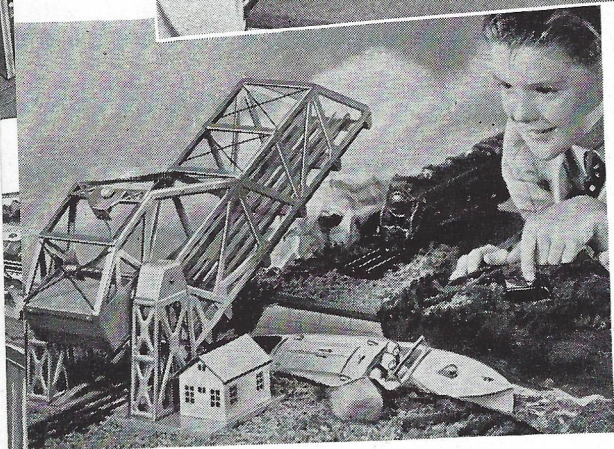
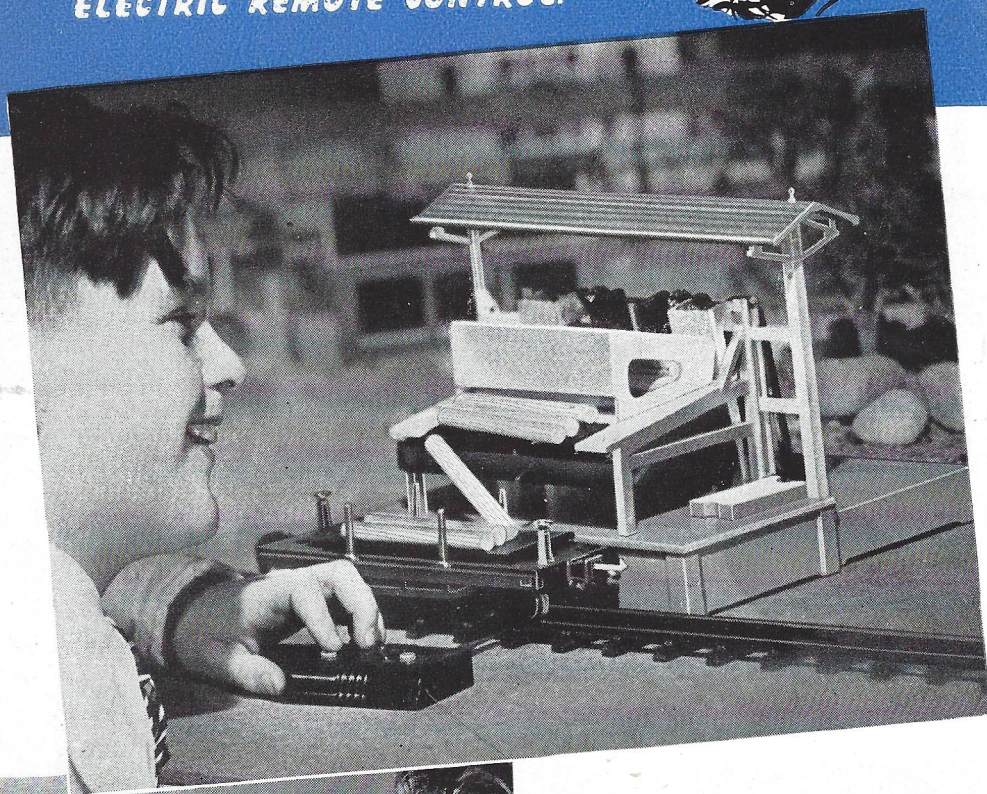


Here's an interesting idea, but you will probably have a better one



Gosh! What fun you are going to have making your Lionel railroad real and life-like. I'll bet, right now, you can't wait to start.

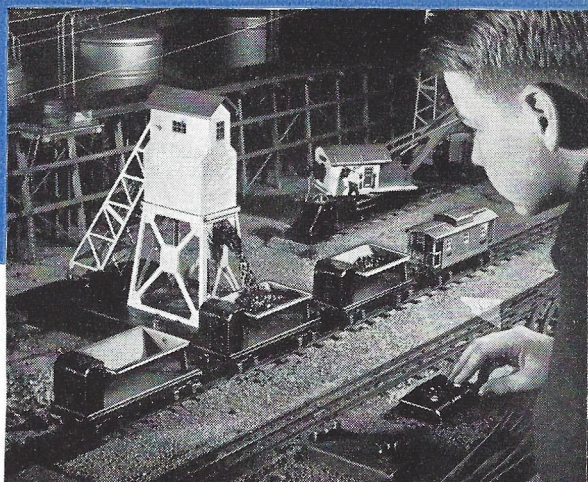
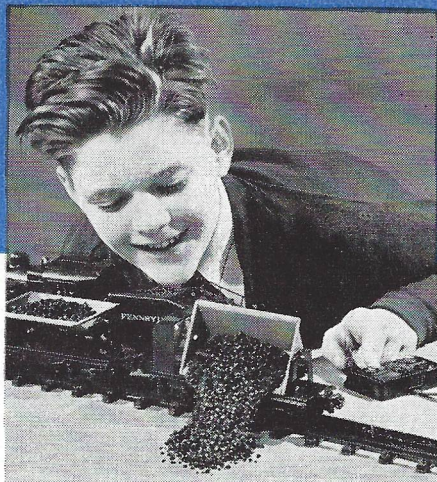
**"OUR LIONEL RAILROAD
WILL BE OPERATED BY
ELECTRIC REMOTE CONTROL."**



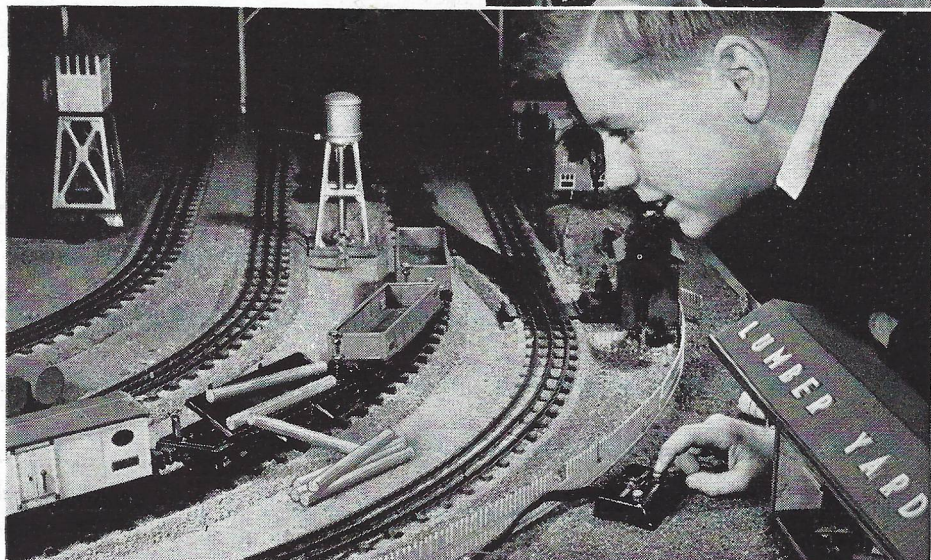
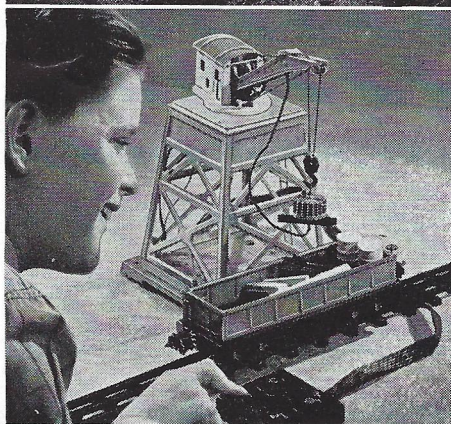
**This is fun! This is real railroading!
Lionel's electric remote control is fas-
cinating. All you do is press a button.**

What happens? Trains start, stop, and reverse at your command. Cars may be uncoupled at your will. As you so decide, and by remote control, an electric magnet crane will perform with precision, or the log loader will discharge its cargo of logs, or the dump car will unload its contents. Just as in real railroading, you can make your loco whistle-signal at the touch of a button. This is only to mention a few of the marvels of the new Lionel electric railroads. And Lionel promises us boys even greater model railroad surprises in 1946.

"DAD SAYS I'M REMOTE
CONTROL IS REAL FUN."

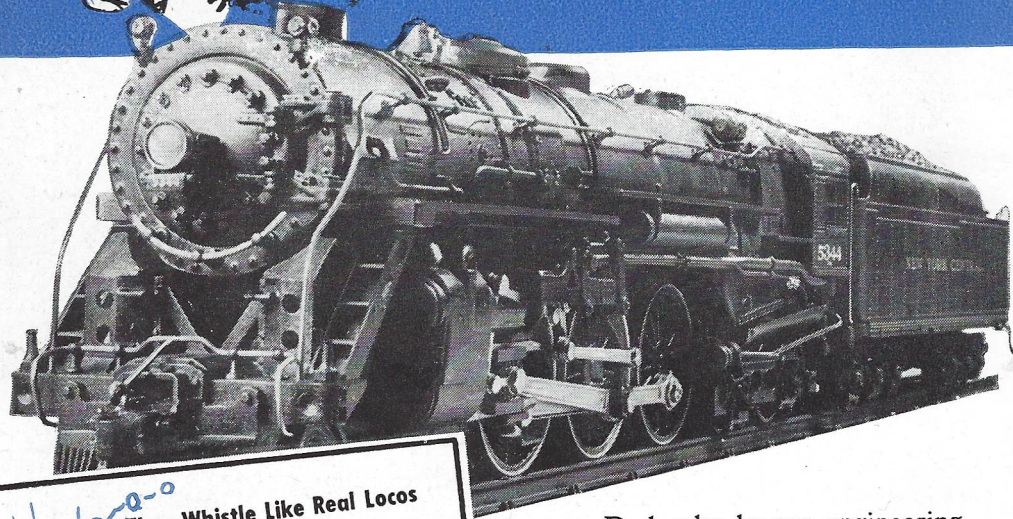


When you get your Lionel Train this Christmas look for the new trucks and couplers. Note the solid steel wheels, the magnificent true-to-life electric knuckle coupler, the heavy steel axles, and the solid truck frame. Here's real railroad engineering! And this, so Lionel tells us, is only a sample of what's coming in the new Lionel Railroads in 1946. There's real news ahead.




"GEE, THESE LIONEL LOCOS ARE BEAUTIES!"

Dad and I spend hours examining our Lionel locos. What super-duper beauties! So real! So like the finest locomotives on the big rails, Sturdy! Powerful!—FAST!

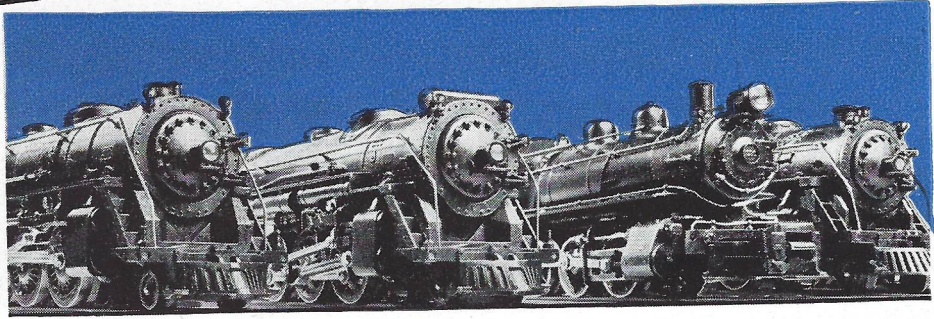


They Whistle Like Real Locos

Long, loud, deep-throated whistles, or short, sharp, quick blasts. You see that's the way a locomotive talks. Sound any signal you wish merely by pressing the remote control button.

A graphic showing a whistle with sound waves and the text "WOO-OO-O-O" written in a stylized, hand-drawn font.

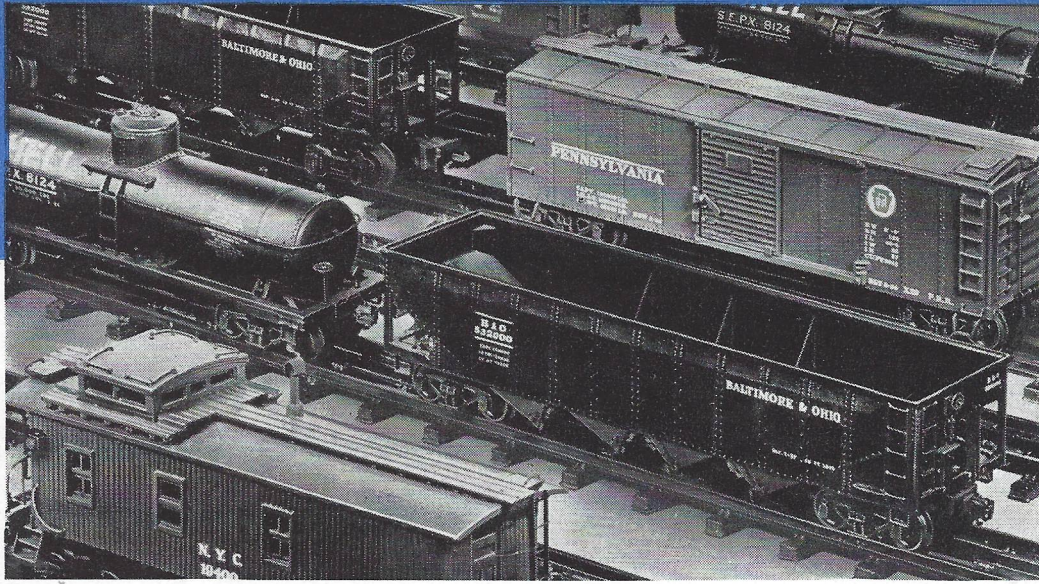
Dad, who knows engineering says Lionel locomotives are marvels of precision manufacture. "Beautifully engineered!" he exclaimed. And just as Lionel locos are perfectly designed, so is every other bit of Lionel equipment from rolling stock to the colorful and exciting accessories.



Look at them lined up here ready to go! Aren't they beauties? Could you tell them from real locomotives? We

are going to have three locomotives on our railroad — not all at once, of course, but as our set grows in size.

WE'RE GOING TO HAVE A LOT
OF LIONEL FREIGHTS, TOO!"



Dad says freights
lend perfect realism
to a model
railroad — so we
are going to have
a lot of Lionel
freights. Just to
show you a few,
we had these new
pictures made.



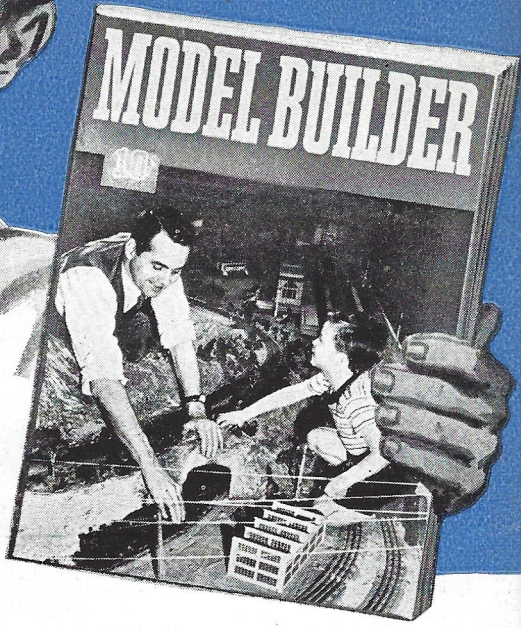
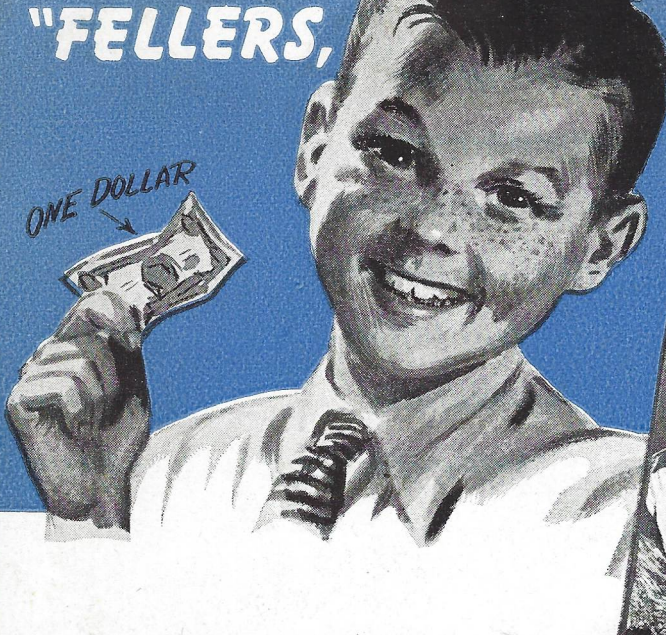
Don't forget to look for the *brand*
new Lionel remote control real rail-
road couplers, the die cast trucks, and
the *solid* steel wheels. You have

never seen anything quite like them
before. Just a sample, boys, of what's
coming in Lionel locos, cars and
accessories.

"FELLERS,

**HERE'S HOW I AM
GOING TO KEEP UP TO
DATE ON
MODEL RAILROADING."**

ONE DOLLAR



**I'm Going To Subscribe To
'MODEL BUILDER'**

I heard about "Model Builder" from a friend of mine. He lives next door to me. He reads it regularly and says he wouldn't be without it.

He and his dad use "Model Builder" magazine to get new ideas on track layouts, new construction stunts, and suggestions for building scenery and model railroad backgrounds.

By reading "Model Builder"

month after month, you get all the latest advice on how to build really true-to-life railroads.

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Take a tip from me, and send in \$1.00 now for one year — eight issues. (Not published from May to September.)

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(EIGHT ISSUES)**

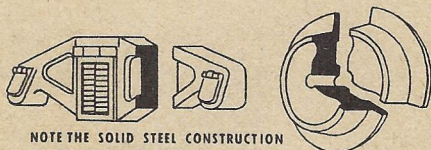
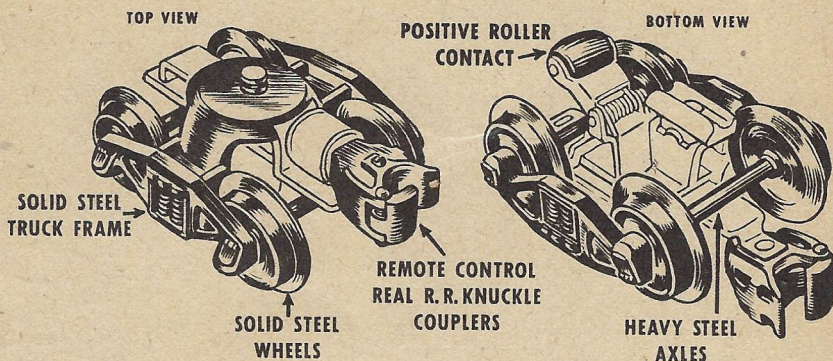
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REMOTE CONTROL REAL R. R. KNUCKLE COUPLERS, DIE CAST TRUCKS AND SOLID STEEL WHEELS ON LIONEL TRAINS



Flash news! This is only a pre-view of what's coming in 1946. Your new Lionel Trains at your favorite store have these features NOW! See them! Even greater realism is on the way!

**MORE SENSATIONAL
IMPROVEMENTS COMING
IN 1946!**





REALISM!

That's what you are assured of in LIONEL Trains and Model railroad accessories. Coming! — startling improvements — new, and undreamed of realism in 1946.