

WITH

SUPERMAN



AT THE GILBERT
HALL OF SCIENCE

ALL ABOUT

Erector

American Flyer Trains

Gilbert Chemistry sets

and other Gilbert

Scientific Wonders

BOYS!

GREAT ADVENTURES ARE
AHEAD OF YOU WHEN YOU
EXPLORE THE WORLD
OF SCIENCE

YOU CAN SAY THAT
AGAIN! WHAT I WANT
FOR CHRISTMAS ARE
PRESENTS DEVELOPED
AT THE GILBERT
HALL OF SCIENCE



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The A. C. Gil-
bert Co., New
Haven, Conn.

★

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in this book apply only to
U. S. A. east of the Rocky
Mountains. Prices Denver
and west are slightly higher.

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and prices without incur-
ring obligation.

D-1508

HELLO BOYS! This is the book you asked me to send you. It is written for boys who want action and lots of it—who want to tread new paths of adventure—who want to discover new frontiers to conquer.

To our forefathers, adventure meant blazing a trail through the wilderness, fighting off Indians and wild animals, and conquering the forces of nature.

Today the world's most thrilling adventures lie in the field of science—engineering, chemistry, electricity, microscopy and other forms of scientific activity. There is as much romance in discovering the secrets of strange chemicals as the secrets of strange lands.

There is as much exciting fun in building a giant engineering marvel as in exploring a giant mountain. There is as much glory in conquering the wild forces of electricity as in conquering wild tribes.

The Gilbert Hall of Science—where all the products shown in this book are developed and made—was founded so that you can play a leading part in the spectacular drama of modern science.

As you read this book, you'll probably feel you want every type of set you see. But of course you can't ask Dad for too much at once. So here's what I suggest. Tell him which sets you want most this Christmas. Then save this book, ask for another set for your birthday, more sets next Christmas.

A.C. Gilbert

Founder of the Gilbert Hall of Science

Visit the Famous Gilbert Hall of Science in New York and other cities

Dedicated to the boys and girls of America, the Gilbert Hall of Science is the greatest scientific exhibit of its kind in the world. Here you see a colossal scale model railroad system. Mighty trains fill the air with real smoke and realistic "choo-choo" sounds. Thrilling automatic loading equipment loads cars with logs, coal and metal. You see the Erector Mysterious Walking



Giant . . . miraculous jumping rings and lightning-hurling Jacob's ladder . . . Polarizing microscopes that reveal Nature's hidden colors . . . exciting chemical labs . . . mysterious "Push me" buttons that bring you sensational surprises. Admission to all Gilbert Halls of Science is free—and here is where to find them.

New York—Fifth Ave. and 25th St.; Washington—1610 K St. N. W., diagonally opposite Statler Hotel; Miami—300 East Flagler St., and at leading department stores and toy dealers.



When a scientific outfit is developed at the Gilbert Hall of Science, you know it is the finest made

Back of every product made by the enormous factories of The A. C. Gilbert Company is the Research Department of The Gilbert Hall of Science.

Here, under the personal direction of A. C. Gilbert, the inventor of Erector, are skilled engineers and other technical experts who devote their full time and energy to creating new and ever-better scientific outfits.

So—if you want the best—always look for the name "The A. C. Gilbert Company" on the box.

\$200 in Annual Awards to Boy Scientists

To the boy doing what, in my opinion, is the most important research in Chemistry, Microscopy or Electricity, I will award \$100.00 in cash. To the ten boys doing the next most important research, I will award \$10.00 each. Applicants must not be over 17 years old and must send me a full description of their experiments by May 1st, 1949.

A.C. Gilbert

ERECTOR®

Developed at the Gilbert Hall of Science

IT'S GREAT TO BE AN ENGINEER
AND BUILD GIANT
MECHANICAL MARVELS

AND ERECTOR HAS GIRDERS
OF STEEL-TO BUILD LIKE REAL

Only Erector has all these features. Builds the square girder with interlocking edges. Curved, straight and giant structural girders. Metal base plates. 5 kinds of gears. Real engineering bolts and nuts. 110 volt reversing electric engine. Electro-magnet. Electric lights. Engineer's shack. Boiler shells. Automobile wheels. More than 115 different parts.

No. 12½ Erector—The Remote Control Set—Builds mysterious walking giant, tractors, bulldozers, electromatic crane and hundreds of other realistic action models that start, stop and reverse by remote push button control. The world's only construction set with this sensational feature. Set contains three powerful motors, "Safety First" transformer, caterpillar tread for crawler models, and all Erector electric features. The three big trays contain a total of over 35 pounds of exciting parts. The greatest Erector of all time. \$50.00.



MEET THE
MYSTERIOUS
WALKING GIANT

He's made of metal • He has electric eyes • He walks by remote control



Exciting parachute jump—5 feet high

No. 9½ Erector—The Parachute Jump Set—Contains 4 parachutes and other parts for building real action parachute jump. Parachutes are hoisted to top by 110 volt electric engine—float down when they strike release mechanism. Set includes parts for making giant power plant and motor car models. Electric engine has gear shift for forward, reverse and stop. Set contains electromagnet, electric lights, big assortment of girders, gears, etc. for building realistic, power-driven models of all kinds. A de luxe combination engineering and construction set. \$27.50.

No. 8½ Erector—The All-Electric Set. Crammed with exciting electric features. 110-volt reversing electric engine with automobile type gearshift. Electric lights. Electro-magnet so powerful it grabs up steel girders before it touches them. Contains total of 15 pounds of up-to-date parts for building giant Ferris wheel, magnetic crane, bascule bridge, oil drilling rig and over 100 other colossal engine-driven, electrically lighted engineering marvels. Most complete engineering outfit Dad can buy for \$19.95.

Giant Ferris Wheel operates in either direction at high or low speed.





Walking beam engine
is fun to build — fun
to run

No. 7½ Erector—the Engineer's Set Look at all the parts in this set. Polished steel boiler shell, 110-volt electric engine with gearshift that operates two movements, each of which can be independently stopped, started, reversed. Engineer's shack. Large wheels. Base plates, gears, pinions, etc. Builds walking beam engine, realistic hoisting engine, derricks, bridges, motor trucks, numerous other gleaming, electrically operated models. Getting this set is like getting dozens of Christmas gifts in one package. \$15.00.

Sensational No. 6½ Erector—You'll feel like a real engineer when you build this airplane ride—then make it spin merrily around when you hook up the Erector electric engine. Set also builds lift bridge, windmill pump, airplane beacon, pile driver, other buzz-with-action models. Set includes girders in different sizes and types, gears, pinions, miniature house for bridge tender and many other parts. Loads of fun at the sensational low price of \$10.00.



Exciting airplane
ride goes round
and round



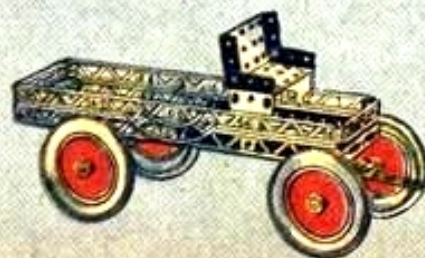
**Builds Realistic, Spectacular
Railroad Bridges**

Famous No. 4 1/2 Erector—Exciting bridges, a windmill, horizontal engine, trucks and a busy trip hammer are only a few of the realistic action models you can build with this wonderful set. Powerful mechanical motor needs no wires or batteries, and can be installed in truck models to make them run under their own power. The set includes four large wheels, base plates, girders and many other fascinating parts. A great set at a price that is easy on Dad's pocketbook. \$6.95.

No. 2 1/2 Erector—the Apprentice Set. Four big red wheels, a gleaming array of girders—both curved and long—and dozens of other carefully engineered Erector parts will start you out on a thrilling construction career. With this set you can build—with your own hands—a portable derrick, an inclined railroad, a drawbridge, an elevator, Dutch windmill and many other models. Finest and most complete apprentice construction set you can find for the money. \$3.00.



**Realistic Farm Wagon
with Big Red Wheels**



GILBERT CHEMISTRY SETS

DEVELOPED AT THE
GILBERT HALL OF SCIENCE

CHEMISTRY IS A KEY SCIENCE IN
EVERYTHING FROM THE FOOD YOU EAT
TO ATOMIC ENERGY

GEE! YOU CAN PERFORM
HUNDREDS OF SWELL
EXPERIMENTS WITH A GILBERT
CHEMISTRY LAB.



More boys have won fame and big awards with Gilbert Chemistry Sets than any other kind. Far more than "toy" sets. Range of chemicals and apparatus are based on real laboratory technique. You can make strange chemicals change color. Transform a liquid into gas—then into a solid—finally to a liquid again. Write messages in invisible ink or fire ink. Make a chemical weather flag. Do finger-printing. Turn a salt cellar into a miniature gas volcano. Spectacular experiments in organic, inorganic and electro chemistry.



**THE NEW GILBERT CHEMISTRY LABS
HAVE ALL THESE ADVANCED FEATURES
FOR EXTRA FUN AND THRILLS.**

NEW—All metal construction—rugged and easy to carry.

NEW—Each section designed as complete laboratory with trays and racks.

NEW—Tip racks for test tubes, for easier handling of test tubes.

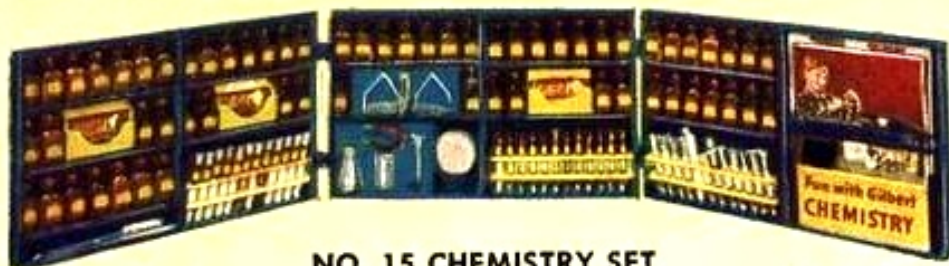
NEW—Brown, lightproof bottles such as used for fine pharmaceuticals.

NEW—Rectangular shaped bottles and shelf spaces, holding bottles with label side out.

NEW—Postwar chemistry book. 144 pages profusely illustrated; large type. 8" x 10" page size and stay open binding. Edited by Prof. Treat B. Johnson, distinguished Yale professor, author of hundreds of publications in the field of organic chemistry, member of the National Academy of Sciences, the National Research Council, the American Chemical Society, the American Institute of Chemists, and other scientific organizations.

No. 6 Chemistry Set

Senior Laboratory. Big, three-compartment blue metal cabinet with wide range of chemicals. Cabinet is 28 $\frac{3}{4}$ " wide and 11" high when open. Number of pieces of apparatus and chemicals totals 60. Large illustrated manual describes 389 experiments that can be performed with set. \$7.95.



NO. 15 CHEMISTRY SET

Master Scientist's Laboratory. Every inch a laboratory for a master chemist—in size, equipment and range of experiments.

The de luxe blue metal cabinet measures 57" from end to end when open. The height is 11". Set includes long list of chemicals, scales, beaker, flask, alcohol lamp, gas generator, thermometer—a total of 145 pieces of chemicals, minerals and apparatus. Large illustrated manual describes 526 experiments that can be performed with this set. \$25.00.

Yes—There Are Big Opportunities in Chemistry

Meet Robert D. Whitaker, 14 years old, who became America's boy chemist of the year. Work in his Gilbert Chemical Laboratory on catalysts brought Robert important honors and a check that ran into three figures. You have an opportunity to do the same—but be sure to start with a Gilbert Chemistry Set.



No. 2 CHEMISTRY SET

Junior Laboratory. Contains 26 pieces of chemicals and apparatus packed in two-compartment blue metal cabinet. Size when open, 19" wide—11" high. New large manual describes 223 experiments that can be performed with this set. \$3.50.

No. 1 CHEMISTRY SET

Beginner's Outfit. Contains 23 pieces of chemicals and apparatus, including wooden test tube rack. Manual shows how to perform 151 experiments. \$1.75.



Take A Tip From A Famous Boy Chemist

What is the best way to start if you want to win high honors as a boy chemist? Take a tip from Frederick C. Menenko of La Porte, Ind. whose original research in chemistry brought him a check for \$100.00 and made him famous. He says, "It makes me proud to feel that I started with a Gilbert Chemistry Outfit."

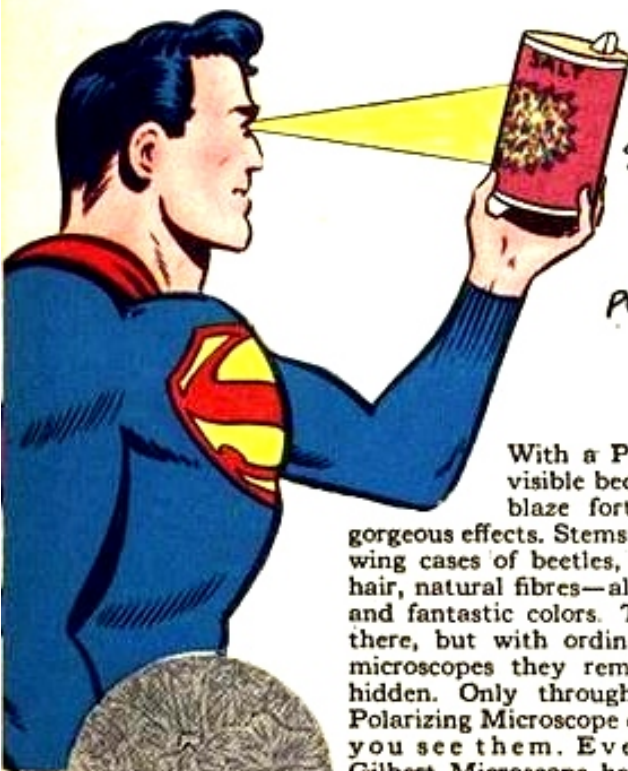


No. 10 CHEMISTRY SET

Inventor's Laboratory. This four-compartment blue metal cabinet measures 40" wide and 11" high when fully opened. 99 chemicals and pieces of apparatus stand in bright array on neat shelves and test tube racks. Set includes scales. New large illustrated manual describes 491 experiments that can be performed with this set. \$15.00.

GILBERT Polarizing MICROSCOPES

Developed at the Gilbert Hall of Science



YOU FEEL YOU HAVE
X-RAY VISION LIKE
SUPERMAN WHEN YOU SEE
NATURE'S HIDDEN COLORS
WITH A GILBERT
POLARIZING MICROSCOPE

With a Polarizing Microscope the invisible becomes visible. Startling colors blaze forth under polarized light in gorgeous effects. Stems of plants, fish scales, crystals, wing cases of beetles, sections of minerals, human hair, natural fibres—all are found to have beautiful and fantastic colors. The colors have always been there, but with ordinary microscopes they remain hidden. Only through a Polarizing Microscope can you see them. Every Gilbert Microscope has a Polarizer, which fits underneath the stage—and an Analyzer, which fits over the eyepiece.



← Under ordinary light
Under Polarized light →



GEE! THAT FLY'S
FOOT LOOKS AS BIG
AS A CAT'S PAW —
AND THOSE COLORS
ARE HOT

No. 15 Microscope Set

De luxe outfit in two-door wooden cabinet 14½" high and 26" wide open. Professional type equipment. Polaroid Jr. analyzer and polarizer. Microscope is equipped with three different objective lenses mounted in turret. Gives from 95 to 400 power. Set has bench microtome, alcohol lamp, many specimens, chemicals, extra slides, other equipment. Big illustrated manual. \$14.95.





No. 6 Microscope Set

Scope has high resolving power with three separate lenses for magnifications of 50, 90 and 210 diameters. Equipped with Polaroid Jr. Rubber friction focusing. Set contains apparatus, chemicals and equipment — including slides, specimens, stains, 3-hole mixing tray, dissecting stand with magnifying lens. Illustrated manual shows how to do 213 experiments. \$6.50.

Owning a Gilbert Polarizing Microscope is like taking a trip to Magicland. Each time you examine a new specimen—bits of wood, fabrics, bird feathers, minerals—you discover magic new configurations and magic new colorings.



No. 10 Microscope Set

Handsome wooden cabinet, 14½" high, 20" wide open. Has Polaroid Jr. 110-150 power microscope has rack and pinion focusing with two wheels, tilting arrangement and draw tube, 11½" extended. Set includes 3-piece magnifying unit, 2 dissecting needles, 17 vials of chemicals and stains, prepared slide, extra glass slides, specimens, labels, cover glasses. Illustrated manual. \$9.95.

No. 2 Microscope Set

Contains 150 power microscope and Polaroid Jr. Microscope has tilting device, wheel focusing, and spring clips to hold slide and polarizer. Scope has adjustable mirror. Glass slides, specimens, cover glasses, dissecting needles and illustrated manual come with set. \$2.95.



GILBERT TOOL CHESTS

Developed at the Gilbert Hall of Science

With a Gilbert Tool Chest and a few boards, you have everything you need to build a ladder, doghouse, Treasure Chest, tree platform, extra furniture for your room and dozens of other things. Note, too, that Gilbert trusty tools come in strong metal cabinets so that you can easily carry them to the job you are working on.



No. 2 1/2 Cabinet

Eighteen useful tools designed by the Gilbert Hall of Science to fit boys' hands and make it easy to work with wood. In red metal chest with brass handle. 16 1/4" x 8 1/4" x 2 1/4" \$4.95.



No. 7 Cabinet

Fifteen better-grade tools. 16" Cross-cut Saw that bites through wood with speed and precision. 7" Plane, Brace with 2-jaw Screw Chuck, other tools that feel right—do the job right. In blue metal chest with brass handle. 18 1/4" x 10 1/2" x 2 1/2". \$9.95.



No. 11 Cabinet

Handy set. Contains 22 pieces of real practical tools. Chisels that are keen and true, 16" Saw, 2-jaw Screw Chuck Brace, Hammer, 8 1/2" Plane, Level, etc. In red metal chest with brass handle, reinforced corners, suitcase catches. 20 1/4" x 12 1/4" x 3". \$13.95.



GILBERT MYSTO MAGIC

Developed at the Gilbert Hall of Science

One hour after you get a Gilbert Mysto Magic Set you can mystify your friends with baffling tricks. Here are tricks never before offered in amateur sets—the closely-guarded secrets of world-famous magicians—stunts that bring the house down with applause.



No. 1 1/2 Gilbert Mysto Magic

Ten easy tricks for pocket or stage. Includes famous and mysterious Photoplasmic Mystery, Cut and Restore Paper Ribbon, Multiplying Cards and Coins, Vanishing Handkerchief, Dollar Bill Vanisher, Phantom Card Trick, Galloping Dime, Hiding Chessman. 18" x 10" x 1 1/4". \$1.95.

THE WHOLE WORLD KNOWS OF SUPERMAN'S MIRACULOUS POWERS



No. 2 1/2 Gilbert Mysto Magic

Contains 12 startling, mystifying tricks including Famous Ming Toy Laundry Ticket, Topsy Turvey Match, New Ace Trick, Sphinx Card Trick, Multiplying Billiard Balls, Jumping Peg, Svengali Mind Reading Wonder, Mysterious Linking Rings, etc. Includes make-up kit of mustache, goatee, poster for putting on magic show anywhere from drawing room to stage. 20 3/8" x 13 3/8" x 1 1/4". \$3.50.

THE KIDS THINK I HAVE
MIRACULOUS POWERS WHEN I
PERFORM MYSTO MAGIC TRICKS



No. 5 Gilbert Mysto Magic

Contains an assortment of mystifying tricks by the World's greatest magicians including Famous Dice in the Box Mystery, Magician's Rhapsody, Glass and Bottle Transposition, Handkerchief Casette Trick, Drum Head Tube Trick, Acrobatic Wedding Ring, Vanishing Handkerchief Trick. Contains Magic manual, Handkerchief manual, Knots and Splices manual that describe many additional tricks. Make-up kit includes mustache, goatee and poster. 20 3/8" x 13 3/8" x 2 1/8". \$7.50.

GILBERT PUZZLE SETS

Developed at the Gilbert Hall of Science

Gilbert Puzzle Sets are more fun than a radio quiz show—a fascinating test for nimble fingers and nimble minds. You'll laugh as your friends struggle over them, yet they're easy when you know how. A wonderful stunt at parties. Give each guest a puzzle and offer a prize to the person who solves his puzzle first.



No. 1034 Gilbert Puzzle Tricks

Six clever tricks, each in a sturdy metal box. Every one a real teaser. Solve them yourself, then try them on your friends. 10 $\frac{3}{8}$ " x 8 $\frac{7}{8}$ " x 1 $\frac{1}{4}$ ". \$2.00.



No. 1032 Gilbert Puzzle Set

Seventeen fascinating puzzles with an instruction book giving full details as to their solution. Fun for you, your friends and your family. Size 10" x 18" x 1 $\frac{1}{4}$ ". \$1.50.



No. 1033 Tricks and Puzzles

Contains twenty wire puzzles and six new baffling teasers such as the Radio Tube Trick, Hungry Pup Trick, Atomic Bomb Trick, Trap-a-Sap Trick. Amusing, educational and ingenious. Size 20 $\frac{1}{4}$ " x 13 $\frac{1}{4}$ " x 1 $\frac{1}{4}$ ". \$3.50.



AMERICAN FLYER®

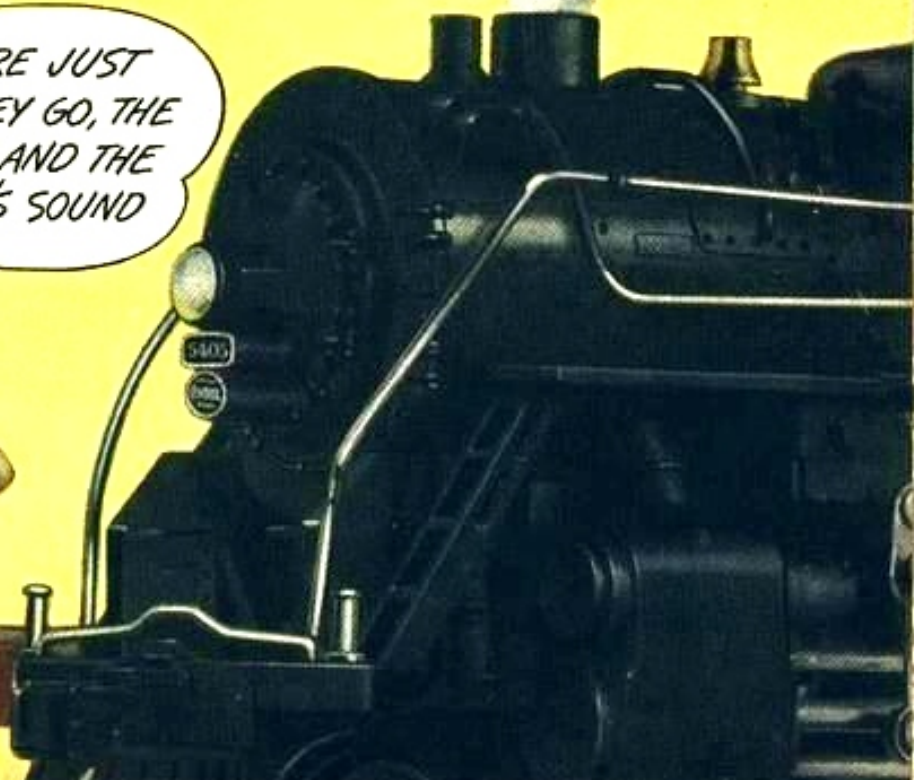


Developed at the Gilbert Hall of Science

*RAILROADING IS FULL OF THRILLING ACTION
AND SPECTACULAR DRAMA*

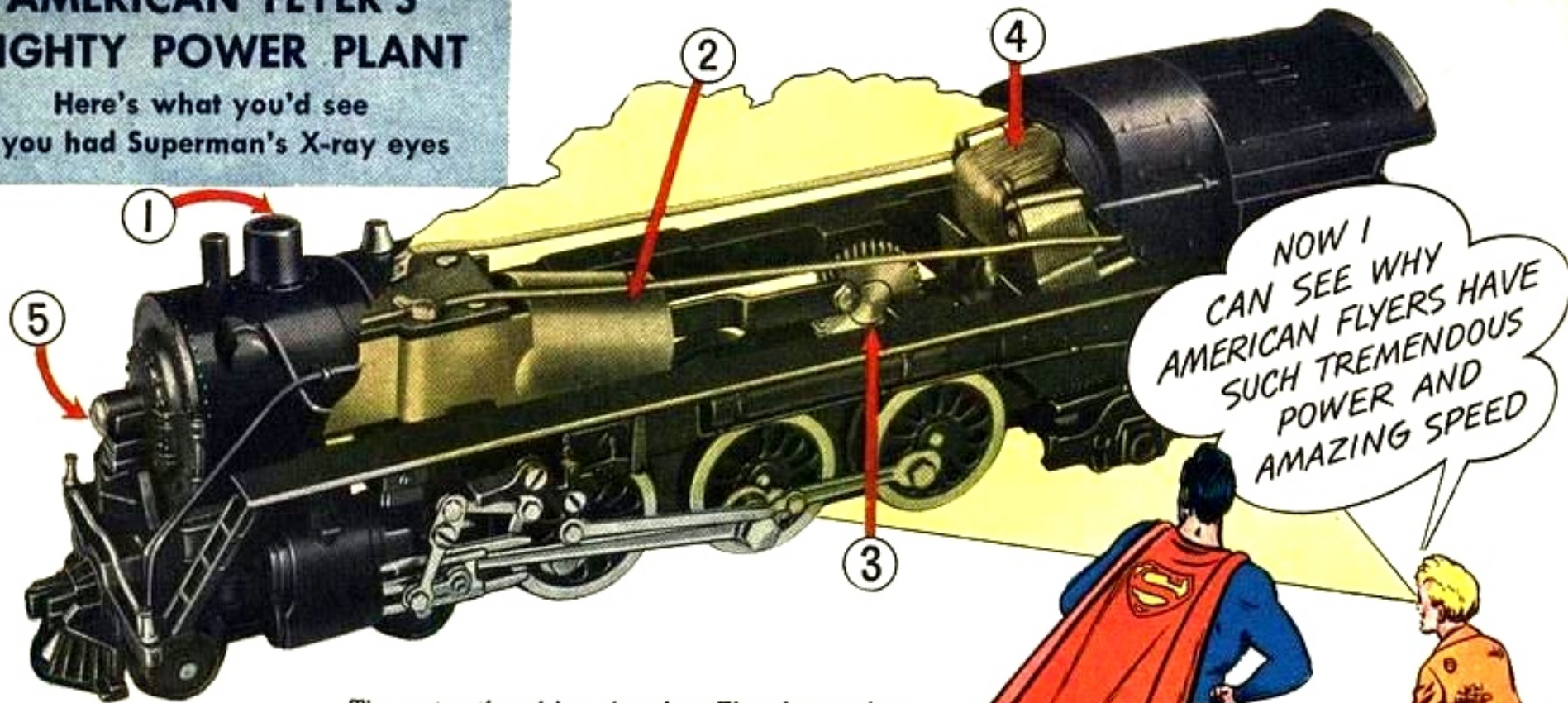
*AND AMERICAN FLYERS ARE JUST
LIKE REAL. THE FASTER THEY GO, THE
MORE SMOKE THEY PUFF AND THE
LOUDER THE "CHOO-CHOO'S" SOUND*

*PUFF-PUFF
CHOO-CHOO*



AMERICAN FLYER'S MIGHTY POWER PLANT

Here's what you'd see
if you had Superman's X-ray eyes



- 1—Smoke refill tube
- 2—Smoke and "choo-choo" generator
- 3—Superpower worm drive
- 4—Precision-engineered motor
- 5—Lucite Electric Headlight

New piston-type smoke and "choo-choo" generator keeps smoke and "choo-choos" synchronized with train speed.

The motor that drives American Flyer locomotives is a direct descendant of the hydraulic control valve motors selected by the Grumman Aircraft Engineering Corporation for their famous Hellcats, and is built to the same rigid specifications. It assures an abundance of smooth, surging power—long life—and realistic, precision control of trains. Locomotives puff smoke 3 seconds after they are started and smoke is visible even in the dark. One smoke cartridge lasts for hours. Smoke unit is easily refilled, and requires no cleaning.

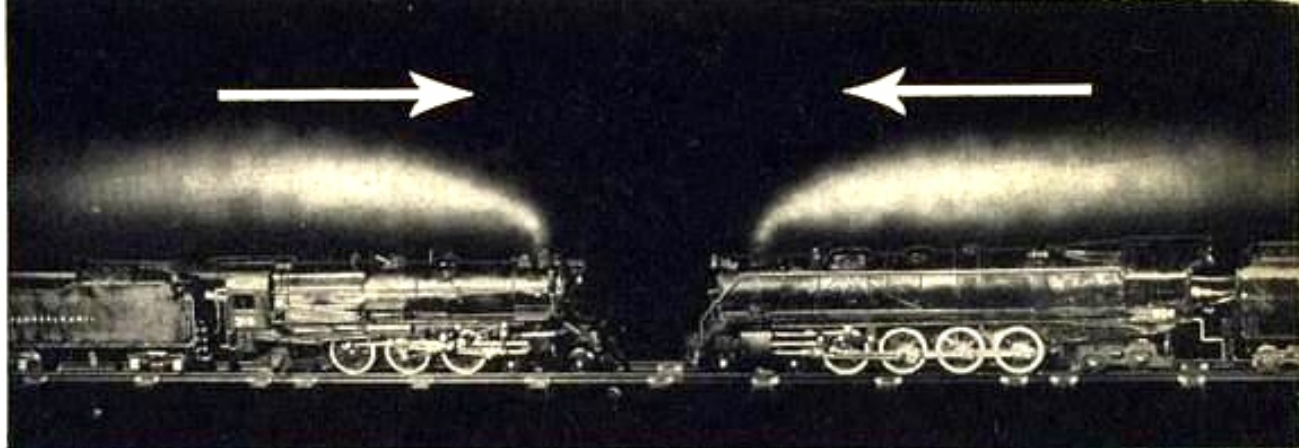
All locomotives, tenders, cars and track engineered to uniform 3/16" scale

DIRECTRONIC PROPULSION LOCOMOTIVES

Exclusive with American Flyer

Provides positive, split-second control of direction of train—banishes jockeying back and forth after stops—eliminates locomotive stopping because of minor dead spots in track—assures continuous propulsive power at high or low speeds.

With Directronic Propulsion locomotives, the throttle of the transformer is used only to regulate the *speed* of the train. The *direction* of the train is controlled entirely by a separate switch on the Directronic Rectifier. After stops, the train always resumes running in the same direction in which it was previously traveling *unless* the direction is intentionally changed by throwing the direction-control switch. Directronic Propulsion locomotives are equipped with a Directronic Propulsion D. C. motor with Alnico permanent magnet—and their operation requires *both* a transformer and the new American Flyer Directronic Rectifier. The Directronic Rectifier converts A. C. to D. C., so that power is supplied to the locomotive in a continuous stream—instead of intermittently as with A. C. See page on Directronic Rectifier.



SPECTACULAR TWO TRAIN OPERATION ON SAME TRACK

Directronic Propulsion brings to scale model railroading the exciting fun of operating two trains on the same track in the same or *opposite* direction. What a thrill to make two trains rush toward each other—stop them just before they collide—then back them away from each other—or make one back away and the other follow.

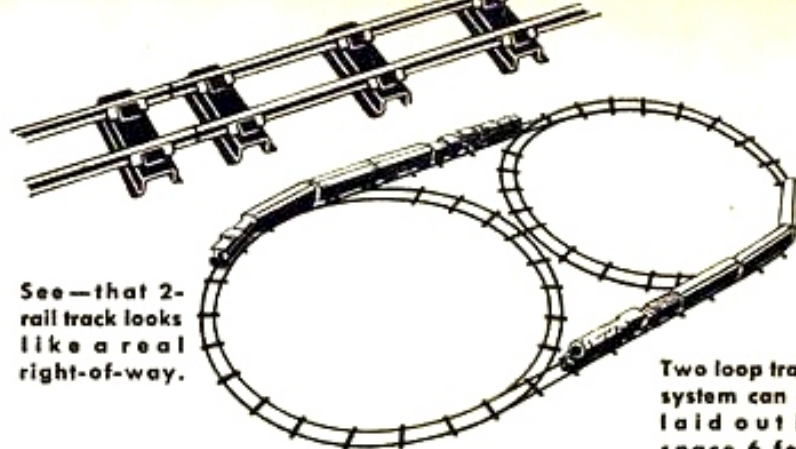
There is a never-ending fascination to changing direction of trains this new way. Equipment needed: One Directronic Propulsion locomotive, one standard locomotive, Directronic Rectifier and Transformer. Directronic Rectifier *must* be used for Directronic Propulsion locomotives. Also operates standard locomotives.



AMERICAN FLYER AUTHENTIC 2-RAIL "T" TRACK

Built to 3/16" scale (S gauge)

American Flyer's 2-rail track has no old-fashioned third rail in the middle, so that it looks just like the track of a real steam railroad. Track is authentic "T" design—flat on top—to give better traction for the wheels. In addition, American Flyer track is built to the same 3/16" scale as American Flyer locomotives, tenders and cars. Your train looks like real—hugs the track like real. And you can get more trackage in less space.



See—that 2-rail track looks like a real right-of-way.

Two loop track system can be laid out in space 6 feet square.

AMERICAN FLYER

Developed at the Gilbert Hall of Science

B. & O. 4—6—2

- ★ 3/16" Scale Model
- ★ Superpower Worm Drive
- ★ Remote Control
- ★ Lightweight Plastic Cars
- ★ Automatic Coupling
- ★ Electric Uncoupling
- ★ Two-Rail Track
- ★ Large 75 Watt Transformer

No. 48T Royal Blue Freight Train—23 pieces—41" long—Every line of this powerful, streamlined, die-cast locomotive says speed, and there are miles of thrills in operating it. Power is transmitted to the six huge drive wheels through superpower worm drive, to assure smooth starting and stopping.

Set contains No. 350 Locomotive and Tender, 17½" long; 633R Box Car, 7 13/16"; 631 Gondola Car, 8"; 630 Caboose, 6". Track: 12 No. 702 curved, 2 No. 700 straight, making 140" oval; 1 No. 706 uncoupling device and control box; 1 No. 690 Track Terminal; large 75 Watt Transformer. \$23.95.



Packed with large 75 Watt Transformer

No. 4801A Atlantic Freight Train—22 pieces—40 13/16" long. Think of the fun of operating this fast freight by remote control. Listen to those "choo-choos" as your train glides forward. Watch the smoke billow from the stack. As you open the throttle wider, "choo-choos" and smoke mount in volume. 75 Watt or 100 Watt Transformer recommended.

Set contains No. 302AC Locomotive and Tender, 16" long; 628 Log Car, 8 3/4"; 633R Box Car, 7 13/16"; 630 Caboose, 6". Track: 12 No. 702 curved; 2 No. 700 straight, making 140" oval; 1 No. 706 uncoupling device and control box; 1 690 Track Terminal. \$26.50.

No. 4803A Atlantic Passenger Train—22 pieces—50 1/2" long. Start this sleek train on its exciting run with smooth precision—just as a real engineer would. There's no jerky "jack-rabbit" pull with American Flyer's worm-gear drive. Then watch it puff smoke—hear those "choo-choos"—perfectly synchronized with train speed. 75 Watt or 100 Watt Transformer recommended.

Set contains 1 No. 302AC Locomotive and Tender, 16" long; 651-G Baggage Car, 10 3/4"; 2 650-G Coaches, 10 3/4". Track: 12 No. 702 curved; 2 No. 700 straight, making 140" oval; 1 No. 706 uncoupling device and control box; 1 No. 690 Track Terminal. \$29.50.

AMERICAN FLYER

Developed at the Gilbert Hall of Science

ATLANTIC 4-4-2

- ★ Real Smoke
- ★ "Choo-Choo"
- ★ 3/16" Scale Model
- ★ Superpower Worm Drive
- ★ Remote Control
- ★ Automatic Coupling
- ★ Electric Uncoupling
- ★ Two-Rail Track
- ★ Lightweight Plastic Cars



No. 4607A Pennsylvania Freight Train—21 pieces—40 $\frac{1}{4}$ " long—Highball this fast freight, and a throbbing chorus of "choo-choos" greets your ears. Make it snail along and the "choo-choos" become a series of slow growls. And it trails clouds of smoke at all speeds. 100 Watt Transformer recommended.

Set contains No. 312AC Locomotive and Tender, 17 $\frac{3}{4}$ " long; 632 Hopper Car, 6 $\frac{3}{8}$ "; 625 Tank Car, 7 $\frac{3}{8}$ "; 630 Caboose, 6". Track: 12 No. 702 curved; 2 No. 700 straight, making 140" oval; 1 No. 706 uncoupling device and control box; 1 No. 690 Track Terminal. \$29.95.

No. 4609A Pennsylvania Passenger Train—21 pieces—50 $\frac{1}{2}$ " long. Watch the glorious plumes of smoke as this hotshot wheels its string of varnish over the rails. Hear the "choo-choos" increase in volume as the pistons flash faster and faster. Two de luxe coaches have electric lights. 100 Watt Transformer recommended.

Set contains No. 312AC Locomotive and Tender, 17 $\frac{3}{4}$ " long; 651-R Baggage Car, 10 $\frac{3}{4}$ ". 2 650-R Coaches, 10 $\frac{3}{4}$ ". Track: 12 No. 702 curved; 2 No. 700 straight, making 140" oval; 1 No. 706 uncoupling device and control box; 1 No. 690 Track Terminal. \$32.95.

AMERICAN FLYER

Developed at the Gilbert Hall of Science

PENNSYLVANIA 4-6-2

- ★ Real Smoke
- ★ Remote Control
- ★ "Choo-Choo"
- ★ Automatic Coupling
- ★ 3/16" Scale Model
- ★ Electric Uncoupling
- ★ Superpower Worm Drive
- ★ Two-Rail Track
- ★ Lightweight Plastic Cars



No. 4611A New York Central Freight Train — 26 pieces— 52 3/16" long. It puffs smoke with thrilling realism. "Choo-choos" can be heard 100 feet away. Electric searchlight on floodlight car can be turned at any angle. Coal dump car unloads realistic coal. 100 Watt Transformer recommended.

Set contains No. 322AC Locomotive and Tender, 19" long; 716 Automatic Coal Dump Car with Control Box, 7 3/4"; 634 Floodlight Car, 8 3/4"; 629 Castle Car, 7 13/16"; 630 Caboose, 6". Track: 12 No. 702 curved; 4 No. 700 straight, making 160" oval; 1 No. 706 uncoupling device and control box; 1 No. 712 Automatic Track Section; 1 No. 690 Track Terminal. \$39.95.

No. 4613A New York Central Passenger Train— 25 pieces— 69 15/16" long. It smokes like a Mainliner. It "choos-choos" like a Mainliner. Here is an authentic scale model of the long trains that roar through the Empire State. Modern lightweight cars have electric lights. 100 Watt Transformer recommended.

Set contains No. 322AC Locomotive and Tender, 19" long; 653-R Baggage and Club Car, 12"; 2 652-R Pullmans, 12"; 654-R Observation, 11 15/16". Track: 12 No. 702 curved, 4 No. 700 straight, making 160" oval; 1 No. 706 uncoupling device and control box; 1 No. 690 Track Terminal. \$42.95.

AMERICAN FLYER

Developed at the Gilbert Hall of Science

HUDSON 4-6-4

- ★ Real Smoke
- ★ "Choo-Choo"
- ★ 3/16" Scale Model
- ★ Superpower Worm Drive
- ★ Remote Control
- ★ Automatic Coupling
- ★ Electric Uncoupling
- ★ Two-Rail Track
- ★ Lightweight Plastic Cars



No. 4619A Pennsylvania Freight Train—27 pieces—49½" long. With the stirring noise of its "choo-choos" in your ears... with real smoke floating back over the cars, you'll feel you're in lumber country when you bring this four-car freight to a stop before that gigantic log loader. Press a remote control button—a log shoots up to the overhead conveyor. Press another button—the log is carried on till it hangs over the log car—then drops with a thud. 100 Watt Transformer recommended.

Set contains No. 312AC Locomotive and Tender, 17¾" long; 717 Automatic Log Car with Control Box, 7 11/16"; 627 Girder Car, 8¾"; 632 Hopper, 6¾"; 630 Caboose, 6"; 751 Log Loader with Control Box, 8¾" x 11½" x 11". Track: 12 No. 702 curved; 4 No. 700 straight, making 160" oval; 1 No. 706 uncoupling device and control box; 1 No. 712 Automatic Track Section; 1 No. 690 Track Terminal. \$52.50.

AMERICAN FLYER

Developed at the Gilbert Hall of Science

PENNSYLVANIA K-5

- ★ Real Smoke
- ★ "Choo-Choo"
- ★ Automatic Log Loader
- ★ 3/16" Scale Model
- ★ Remote Control
- ★ Superpower Worm Drive
- ★ Automatic Coupling
- ★ Electric Uncoupling
- ★ Two-Rail Track
- ★ Lightweight Plastic Cars



No. 4620A New York Central Freight Train—27 pieces—52¼ long. Night and day, powerful trains like this thunder from the coal mines to city coal yards. With this magnificent set you can reproduce the exciting action of loading—transporting—and unloading coal. What's more, as you hustle your train on its way, the smoke changes from wisps to gusts. . . the "choo-choos" come louder, faster. When you stop your train, you dump the loaded coal car by remote control. 100 Watt Transformer recommended.

Set contains No. 322AC Locomotive and Tender, 19" long; 716 Automatic Coal Car with Control Box, 7½"; 633 BoxCar, 7 13/16"; 635 Wrecker, 8¾"; 630 Caboose, 6"; 752 Seaboard Coaler with Control Box, 8½" x 10¾" x 16½". Track: 12 No. 702 curved; 4 No. 700 straight, making 160" oval; 1 No. 706 uncoupling device and control box; 1 No. 712 Automatic Track Section; 1 No. 690 Track Terminal. \$60.00.

AMERICAN FLYER

Developed at the Gilbert Hall of Science

NEW YORK CENTRAL J-3A

- ★ Real Smoke
- ★ "Choo-Choo"
- ★ Coal Loader
- ★ 3/16" Scale Model
- ★ Superpower Worm Drive
- ★ Remote Control
- ★ Automatic Coupling
- ★ Electric Uncoupling
- ★ Two-Rail Track
- ★ Lightweight Plastic Cars



No. 4618 Nickel Plate Switcher — 26 pieces — 48 1/4" long. With this powerful die-cast Directronic Propulsion "yard goat" you can "shuffle the deck" (switch cars around) just as they do in real railroad classification yards. And its realistic-sounding "choo-choos" and realistic-looking smoke are fully synchronized to train speed. Automatic unloading car has truck that rushes off tilting platform by remote control. Searchlight car has floodlight that turns and twists at any angle, throws long, brilliant beam of light. No. 15 Directronic Rectifier and Transformer must be used.

Set contains No. 342DC Switcher Locomotive and Tender, 14 3/4" long; 715 Automatic Unloading Car with Truck, Control Box, 7 3/4"; 634 Floodlight Car, 8 3/4"; 631 Gondola, 8"; 630 Caboose, 6". Track: 12 No. 702 curved; 4 No. 700 straight, making 160" oval; 1 No. 706 uncoupling device and control box; 1 No. 712 Automatic Track Section; 1 No. 690 Track Terminal. \$37.50. No. 4730A Nickel Plate Switcher — same as above but with universal motor, which operates either on A.C. or D.C. \$37.50.

AMERICAN FLYER

Developed at the Gilbert Hall of Science

NICKEL PLATE 0—8—0

- ★ Remote Directronic Control
- ★ Real Smoke
- ★ "Choo-Choo"
- ★ Automatic Mail Car
- ★ Superpower Worm Drive
- ★ 3/16" Scale Model
- ★ Automatic Coupling
- ★ Electric Uncoupling
- ★ Two-Rail Track
- ★ Lightweight Plastic Cars



No. 4615 Union Pacific Freight Train—26 pieces—63" long. Start, stop, reverse this train by remote Directronic control. "Choo-choos" change tone and tempo with train speed. Gusts of smoke fill the air. Wrecker car has revolving cab . . . hook raises, lowers. No. 15 Directronic Rectifier and Transformer must be used.

Set contains No. 332DC Locomotive and Tender, 21½" long; 628 Log Car, 8¾"; 633 Box Car, 7 13/16"; 635 Wrecker, 8¾"; 632 Hopper, 6¾"; 630 Caboose, 6". Track: 12 No. 702 curved; 4 No. 700 straight, making 160" oval; 1 No. 706 uncoupling device and control box, 1 No. 690 Track Terminal. \$45.00.

No. 4617 Union Pacific Passenger Train—25 pieces—72 7/16" long. As this huge Union Pacific Directronic Propulsion locomotive rolls along, smoke pours from its stack, "choo-choos" echo over the pounding of the wheels. All cars are brilliantly illuminated. No. 15 Directronic Rectifier and Transformer must be used.

Set contains No. 332DC Locomotive and Tender, 21½" long; 653-G Baggage and Club Car, 12"; 2 652-G Pullmans; 12"; 654-G Observation, 11 15/16". Track: 12 No. 702 curved, 4 No. 700 straight, making 160" oval; 1 No. 706 uncoupling device and control box; 1 No. 690 Track Terminal. \$48.50.

AMERICAN FLYER

Developed at the Gilbert Hall of Science

UNION PACIFIC 4-8-4

★ Remote Directronic Control

★ 3/16" Scale Model

★ Real Smoke

★ Automatic Coupling

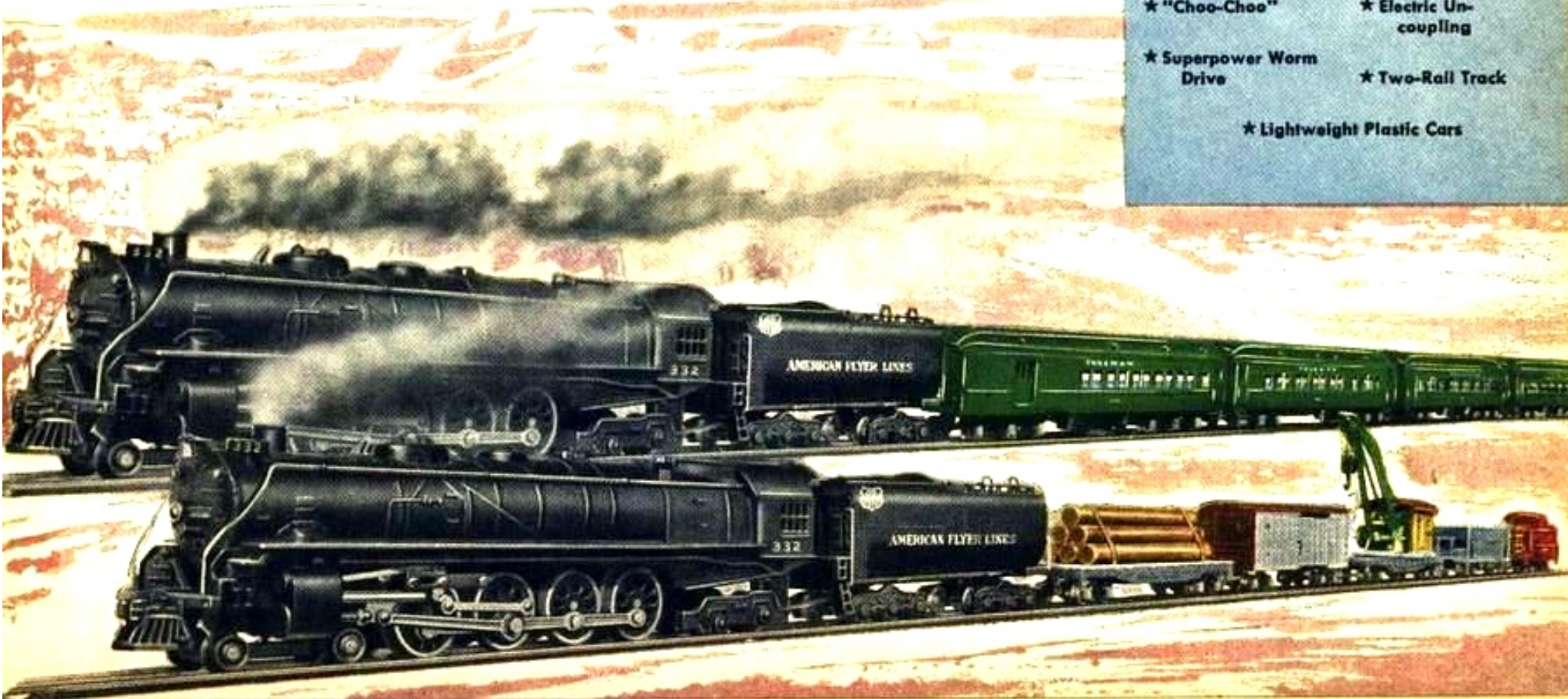
★ "Choo-Choo"

★ Electric Uncoupling

★ Superpower Worm Drive

★ Two-Rail Track

★ Lightweight Plastic Cars



No. 4621 Union Pacific Passenger Train—29 pieces—81 7/16 long. Picture yourself wheeling this Directronic Propulsion battle-ship with its brilliant string of cars. How realistically the "choo-choos" rumble and snort—rising and descending in tone as you change train speed. How thrilling to see real smoke pouring out of the stack. What vivid, spectacular action when the mail car flashes by. Automatically a metal arm reaches out and grabs up a sack of mail—while another sack comes tumbling to the ground. No. 15 Directronic Rectifier and Transformer must be used.

Set contains No. 332DC Locomotive and Tender, 21 3/4" long; 718R Automatic Mail Pick-up Car with Control Box, 10 3/4"; 2 650R Coaches, 10 3/4"; 652R Pullman, 12"; 654R Observation Car, 11 15/16". Track: 12 No. 702 curved; 6 No. 700 straight, making 180° oval; 1 No. 706 uncoupling device and control box; 1 No. 713 Mail Pick-up Track Section; 1 No. 690 Track Terminal. \$52.50.

AMERICAN FLYER

Developed at the Gilbert Hall of Science

UNION PACIFIC 8 DRIVE WHEELS

★ Remote Directronic Control

★ Real Smoke

★ "Choo-Choo"

★ Automatic Mail Car

★ Superpower Worm Drive

★ 3/16" Scale Model

★ Automatic Coupling

★ Electric Uncoupling

★ Two-Rail Track

★ Lightweight Plastic Cars



AMERICAN FLYER SUPERPOWER TRANSFORMERS

Developed at the Gilbert Hall of Science



No. 2B Transformer
75 Watts, 60 Cycles
Has built-in circuit breaker.
\$7.95.

No. 2 Transformer
Same as above, but without
circuit breaker. \$6.50.



No. 8B "Safety First" Transformer
100 Watts, 60 Cycles
Green pilot shines when current is passing through; red light when there's trouble.
\$10.50.



No. 12B "Safety First" Twin Control Transformer
250 Watts—60 Cycles

For large track layouts with numerous accessories. Dual throttles. Operates from 2 to 4 trains on same or 2 separate layouts and at different speeds. Built-in circuit breaker protects fixed as well as variable voltage. Red and green pilot lights. Handy off-and-on switch. \$20.95.

Output limited to 15 volts, reducing danger of burning out lights, motors, etc. Throttle shows miles per hour. Transformers operate on A. C. only.

TRANSFORMER	RECOMMENDED FOR TRAINS
Nos. 2, 2B, 8B	Nos. 4801A, 4803A
Nos. 2B, 8B	Nos. 4607A, 4609A, 4611A, 4613A
Nos. 8B, 12B	Nos. 4619A, 4620A
No. 15 Directronic Rectifier	Must be used with 2B, 8B or 12B Transformer for Nos. 4615, 4617, 4618, 4621, HO-140, HO-141.

★ ★ ★

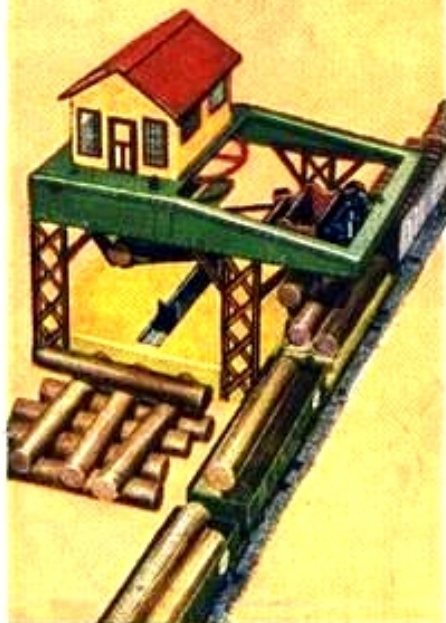
No. 15 Directronic Rectifier. Must be used for Directronic Propulsion Locomotives. Capacity—4 Amperes. Converts A. C. to D. C. so that power is supplied to locomotive in continuous stream. Toggle switch reverses direction of trains. Two sets of terminals, for transformer and track connections. \$12.95.



No. 752 Automatic Seaboard Cooler. Bucket drops to coal pile—jaws open and snap together when full. Loaded bucket is hoisted to top of tower, dumping coal into chute leading to car. Remote control. Size $8\frac{1}{2}'' \times 10\frac{3}{4}'' \times 16\frac{1}{2}''$. \$18.95.



No. 751 Automatic Log Loader. Elevator lifts log to overhead conveyor, which carries it underneath roof to end of arms and drops log into car. All action directed by two remote control push buttons. Size $8\frac{3}{4}'' \times 11\frac{1}{2}'' \times 11''$. \$18.95.



No. 583 Electromatic Crane. Grabs up load of metal by powerful electro magnet—hoists it high in the air—swings over car—lowers—drops metal into car. Every movement controlled by remote control. Size $11'' \times 4'' \times 6''$. \$10.95.



AMERICAN FLYER EQUIPMENT

Developed at the Gilbert Hall of Science



HOLY SMOKE!
YOU SURE
START A LOT OF ACTION
WHEN YOU PRESS THESE
REMOTE CONTROL
PUSH BUTTONS.



No. 596 Water Tank. Lower and raise water spout by remote control. Aviation warning light on top. $11'' \times 6'' \times 6\frac{1}{2}''$. \$5.95.



No. 755 Talking Station. Produces true-to-life sounds of busy railroad station—stops train by remote control—starts train automatically. Built-in automatic audio announcer reproduces sounds of hissing steam, chug of pistons, whistle, voice of train announcer. Station is illuminated. Has swinging and sliding doors. $6'' \times 12'' \times 8''$. \$14.95.



No. 612 Freight and Passenger Station with Crane. With track terminal illuminated. Sliding doors. Hand-operated crane swivels. Boom raises, lowers. 19" x 8" x 5 1/4". \$6.95.



No. 586F Wayside Station with Figures. Smart new suburban station with baggage truck, operator, porter. Double bench, two lights. Enamel finish. 12" x 5" x 3 3/4". \$3.95.



No. 579 Single Street Light. \$1.50.
No. 580 Double Street Light. \$2.25.
With track terminal Electrical contact through terminals in base.
No. 249 Tunnel (11 1/2" long). \$2.95.



No. 750 Trestle Bridge. With track terminal Heavy steel. Tender's house has interior light on the top. Brilliant enamel finish. 17 3/4" x 8 1/4" x 4 1/4". \$4.95.



No. 593 Signal Tower. With track terminal. Stairway leads to lighted operators' room. Windows on three sides. Enameled. 7 3/4" x 5 1/2". \$4.95.



No. 589 Passenger and Freight Station. With track terminal. Realistic windows, swinging door, interior illumination. Enameled. 6" x 12" x 8". \$5.95.



No. 577 Whistling Billboard. With signal control box. Whistles any time by remote control. Illuminated. 4" x 7 1/2" x 4". \$5.95.



No. 585 Tool Shed. Plastic roof, sliding door. Bright enamel finish. Adds realism to sidings, etc. 4 1/2" x 6 3/4" x 5 1/4". \$1.95.



No. 582 Automatic Blinker Signal. With automatic track trip. Double bull's eye Lucite blinkers flash red as train passes. 4 1/2" x 2 3/16". \$2.25.



No. 591 Crossing Gate. With watchman's shack. Your speeding train controls raising, lowering of gates. Red light. 10" x 5 1/4". \$5.95.



No. 578 Station Figure Set. Six hand painted workers, a platform truck, two milk cans and a barrel. Realistic additions to railroad. \$2.95.



No. 581 Girder Bridge. Sturdy modern girder type. Slips easily under any straight track section. 10" x 1 3/4" x 4 1/4". \$2.25.

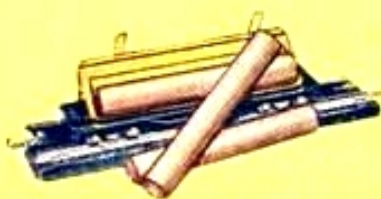
AMERICAN FLYER AUTOMATIC ACTION CARS

No. 715 Unloading Car—
Platform on car swivels,
tilts, shoots truck down in-
cline when you press remote
control button, 7 $\frac{3}{4}$ ". \$4.95.

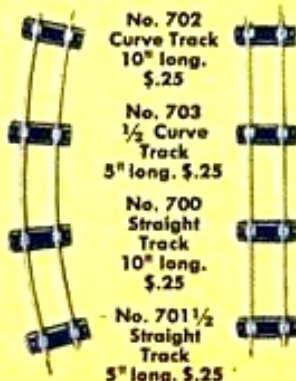
**No. 718 Mail Pick-Up and Dis-
charging Car —** By remote
control the car's metal arm
extends, picks up one mail-
bag as another is tossed out.
Red and green. 10 $\frac{3}{4}$ ". \$5.95.

**No. 716 Automatic Coal
Dump Car—**Sidewings open
by remote control, coal
pours out into unloading
bin. Tuscan red outside,
black inside. 7 $\frac{3}{4}$ ". \$4.95.

No. 717 Log Unloading Car
—Holds 3 logs which are
dumped to ground by re-
mote control. Black chassis,
yellow platform. 7 $\frac{11}{16}$ ".
\$4.95.



No. 725 Railroad Crossing . . .
Unit consists of two straight
sections of track, each 10"
long, at 90°. \$1.95



**No. 702
Curve Track
10" long.
\$.25**

**No. 703
1/2 Curve
Track
5" long. \$.25**

**No. 700
Straight
Track
10" long.
\$.25**

**No. 701 1/2
Straight
Track
5" long. \$.25**

**No. 706 Remote Control Elec-
tric Uncoupler—**A new clamp-
on type—complete with a
10" section of straight track
and electric control button.
\$2.50.

No. 730 Bumper . . . Easily
snapped on and off. Com-
plete with 10" section of
track, recoil spring and light
\$1.95.

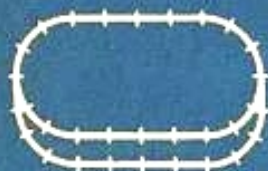
**No. 588 Semaphore Block Sig-
nal —** Realistic operation.
Semaphore arm goes hori-
zontal, lights to red to stop
train—raises to vertical,
lights to green to proceed.
Electrically operated by re-
mote control for one train.
Two train no-collision op-
eration works automatically
from track trips. Enamel
finish. Size 7 $\frac{1}{2}$ " high, base
1 $\frac{3}{4}$ " x 1 $\frac{3}{4}$ ". \$5.95.



No. 720 Pair Switches (remote control) . . .Quick action
electric switches with red and green lights, new remote
control box with two switch control levers. Lights stay
on when train is shut off. \$16.95.

AMERICAN FLYER TRACK LAYOUTS

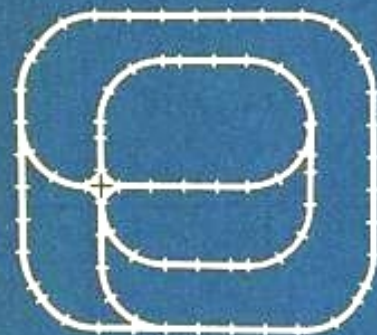
The fun of operating a scale model railroad increases with your track-age. Add a few track sections each month. See how rapidly your system will grow into the railroad empire of your dreams.



No. 8—Space 50" x 80"
Track: 16 Curve, 12 Straight,
1 pair of Switches



No. 5—Space 52" x 106"
Track: 21 Curve, 18 Straight,
4— $\frac{1}{2}$ Straight, 2— $\frac{1}{2}$ Curve,
1 pair Switches, 1 Crossover



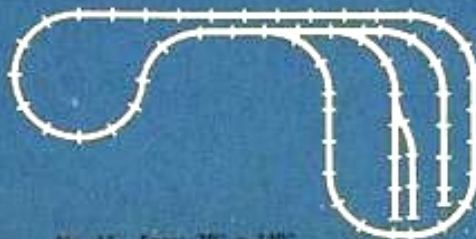
No. 29—Space 100" x 106"
Track: 31 Straight, 29 Curve, 8— $\frac{1}{2}$ Straight,
2 pair of Switches, 1 Crossover



No. 22—Space 60" x 90"
Track: 25 Straight, 18 Curve,
4— $\frac{1}{2}$ Straight,
5 Left Switches, 3 Right Switches



No. 26—Space 30" x 70"
Track: 19 Curve,
14 Straight, 1— $\frac{1}{2}$ Straight,
4 Left Switches,
2 Right Switches



No. 13—Space 70" x 140"
Track: 28 Curve, 20 Straight,
4— $\frac{1}{2}$ Straight,
2 Right Switches, 1 Left Switch



No. 6—Space 40" x 90"
Track: 18 Curve, 4 Straight,
4— $\frac{1}{2}$ Straight, 1 Crossover



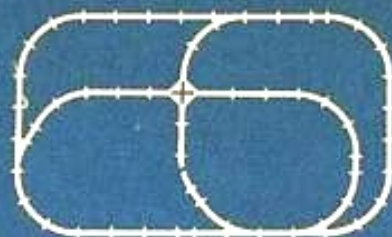
No. 18—Space 70" x 110"
Track: 28 Curve, 41 Straight,
2— $\frac{1}{2}$ Straight, 3 pair of Switches



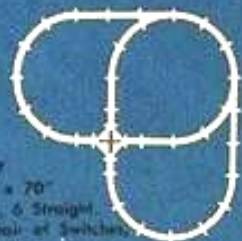
No. 2—Space 40" x 90"
Track: 20 Curve, 6 Straight,
2 pair of Switches



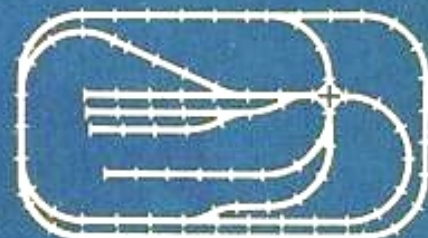
No. 30—Space 65" x 120"
Track: 22 Curve, 32 Straight, 4 Right Switches,
3 Left Switches, 2— $\frac{1}{2}$ Straight



No. 4—Space 70" x 115"
Track: 22 Curve, 22 Straight, 2— $\frac{1}{2}$ Straight,
2 pair of Switches, 1 Crossover



No. 7
Space 70" x 70"
Track: 19 Curve, 6 Straight,
4— $\frac{1}{2}$ Straight, 1 pair of Switches,
1 Crossover



No. 10—Space 72" x 128"
Track: 30 Curve, 48 Straight, 3— $\frac{1}{2}$ Straight,
3— $\frac{1}{2}$ Curve, 4 pair of Switches, 1 Crossover



No. 9—Space 50" x 90"
Track: 22 Curve, 18 Straight,
2 pair of Switches

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