



ASSEMBLY INSTRUCTIONS

RADIO

DOUBLE DIESEL

ITEM NO. 8964

PATENT # 5,690,278

with
POWER-100

CAUTION-ELECTRICALLY OPERATED PRODUCT

NOT RECOMMENDED FOR CHILDREN UNDER 8 YEARS OF AGE. AS WITH ALL ELECTRIC PRODUCTS, PRECAUTIONS SHOULD BE OBSERVED DURING HANDLING AND USE TO AVOID ELECTRIC SHOCK. FOR USE IN DRY INDOOR LOCATIONS ONLY. INPUT: 120 VAC, 0.082 AMP, 60 HZ. OUTPUT: 6 VA, 12.0 VDC.

START HERE

THE RIGHT WAY IS MORE FUN!

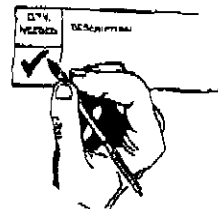
This quality product is a perfect way to start your model railroading empire. Read the directions completely before unpacking or beginning assembly. Work slowly and carefully. You'll find that much of the fun is in the building of your railroad.

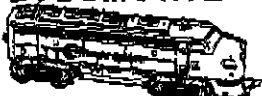
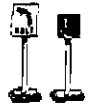
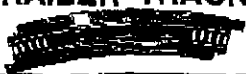
1 PARTS LIST

This is a list of all the parts included with this item. If you are missing any parts, or if any are damaged, use the Adjustment Form on the next page to obtain needed parts from LIFE-LIKE PRODUCTS.

IMPORTANT: The store where you bought this item does not have parts. You will get the easiest and fastest service by following these instructions.

1. Unpack the parts. Save the packing materials.
2. Check off the parts in the grey spaces indicated as you unpack them.
3. Look in the carton again and check all the packing materials to make sure you have all the parts.
4. Use the Adjustment Form on Page 7 to order any missing parts.



1	F7 LOCOMOTIVE 	2	RECEIVERS 	3	TRACKSIDE SHANTY KITS 
1	HI NOSE GP38-2 LOCOMOTIVE 	2	TRANSMITTERS  2-8 Volt Batteries Not Included	1	LIGHTED YARD TOWER 
4	FREIGHT CARS 	24	STREET & HIGHWAY SIGNS 	2	POWER PACKS 
2	CABOOSES 	1	PKG OF 2 CARS AND 1 TRUCK 	1	SHEET EACH OF MOUNTAIN PAPER AND LAKE PAPER
22	18" RADIUS CURVED TRACK 	19	RAILROAD SIGNS 	2	PIECES 25" X 99" GRASS MAT ROLLED TOGETHER
2	CURVED TERMINAL RERAILER TRACKS 	2	18 PC. BRIDGE AND PIER SETS 	1	PACKAGE OF 1 EACH LYCHEN AND EARTH
16	9" STRAIGHT TRACK 	2	PKGS OF SPARE COUPLERS & HOOK-UP WIRES	1	BEGINNER'S GUIDE TO MODEL RAILROADING

LOCOMOTIVE, FREIGHT CARS, AND CABOOSE ILLUSTRATIONS MAY VARY FROM THE ITEMS IN THIS SET.

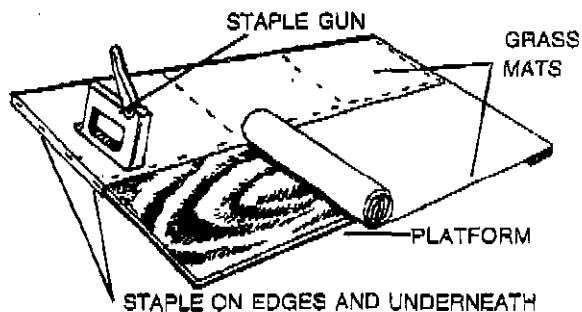
RM586961

RADIO DOUBLE DIESEL TRACK DIAGRAM AND KEY

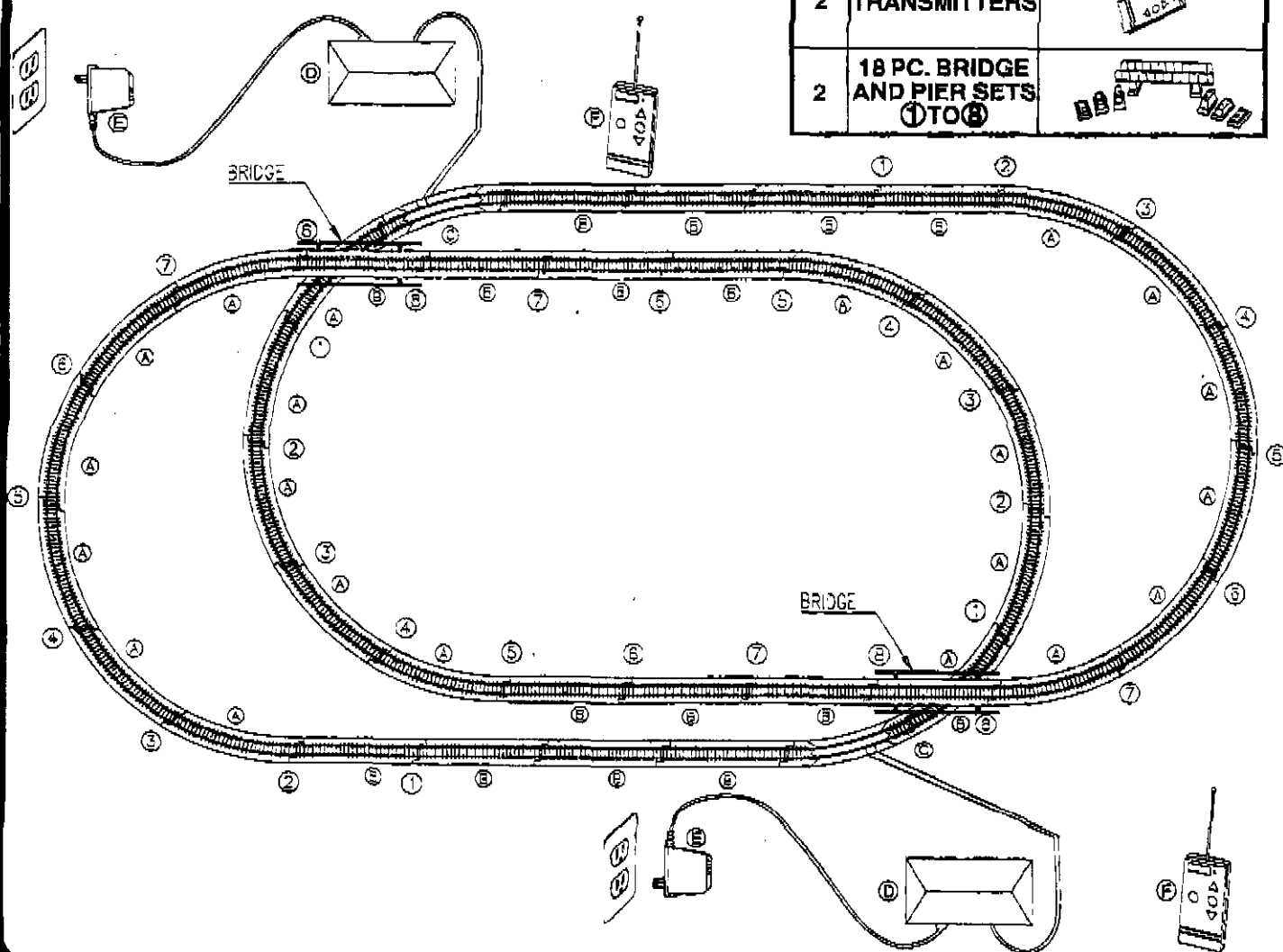
You will need a 4' x 8' platform on which to build this layout. We've provided enough grass mat material to cover this size platform. (You may want to build your layout on a larger board to make it easier to expand in the future.) Plywood or Homasote work well. The easiest ways to mount the mats are with a staple gun or thumb tacks. (Green thumb tacks will blend in with the grass mats!)

Cover half the platform with one mat lengthwise. Pull tightly and tuck under the ends and side. Staple or tack mat to platform on edges and underneath. Some staples on top help prevent bulges. Repeat for the second mat, overlapping them slightly.

The staples or tacks can be concealed by painting them green or covering them with landscaping materials. If you prefer, glue may be used to mount the mats. However, some glues may make the mat buckle.



22	18" RADIUS CURVE	(A)
16	9" STRAIGHT TRACK	(B)
2	RERAILER (18" RADIUS CURVE)	(C)
2	RECEIVERS	(D)
2	POWER PACKS	(E)
2	TRANSMITTERS	(F)
2	18 PC. BRIDGE AND PIER SETS ① TO ⑧	

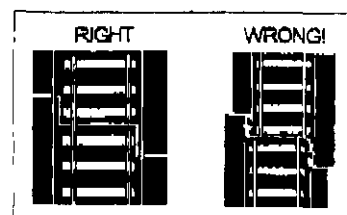
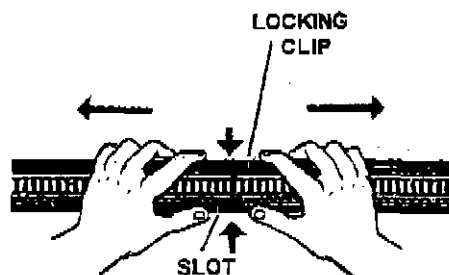


2 CONNECTING POWER-LOC™ TRACK*

The set that you have purchased features the innovative Power-Loc track system for the fastest and easiest set-up possible. The solid road bed base offers durability and support on any surface, therefore eliminating the need for boards, nails, screws and other tools.

1. To set up your Power-Loc track layout, first clear an area large enough for a 35" x 82" oval. While your trains will run on the Power-Loc track on any surface, you may want to avoid **connecting** your track on shag or thick carpet as the shag could get stuck between the track pieces, preventing them from locking together correctly. It's a better idea to join your track on a smoother surface; then it's easy to move onto a carpeted area.
2. Following the track diagram on page 2, place the track on a flat surface in the shape and order of the plan. Now you are ready to connect your track.
3. Keeping track level, simply align the locking clips with the slots on the extended edges of track pieces and press together until clips click into place. Join the remaining pieces of track in the same manner. **NOTE:** Do not try to connect your track by holding it in the air and fastening. You could snap off one of the locking clips if you do not connect the track on a flat surface.
4. Once your track is connected, you can easily pick it up and move it, or hang it on a wall or slide it under a bed for quick and convenient storage. The exclusive Power-Loc design provides maximum strength at every joint so track stays together.
5. To disassemble your Power-Loc track, keep the track level and grasp the track pieces close to the joint. Firmly slide the track pieces away from each other until the locking clips snap out of the slots.

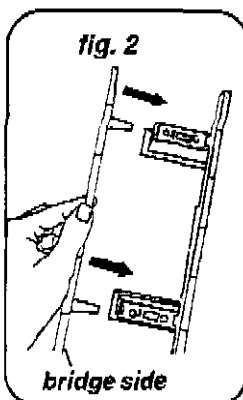
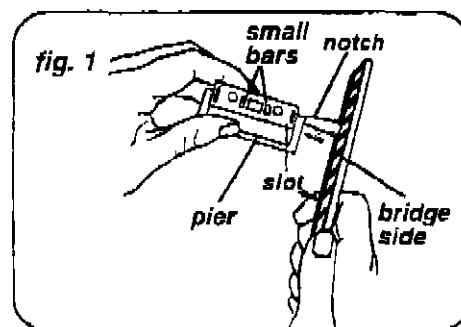
*Patent # 5,690,278



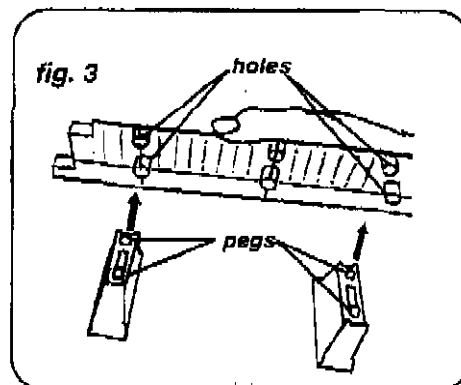
ASSEMBLING BRIDGE AND PIER SET

Now you can elevate your track layout using the two 18 piece bridge and pier sets. First, organize the piers in descending height order (there will be four of each size, so make four groups).

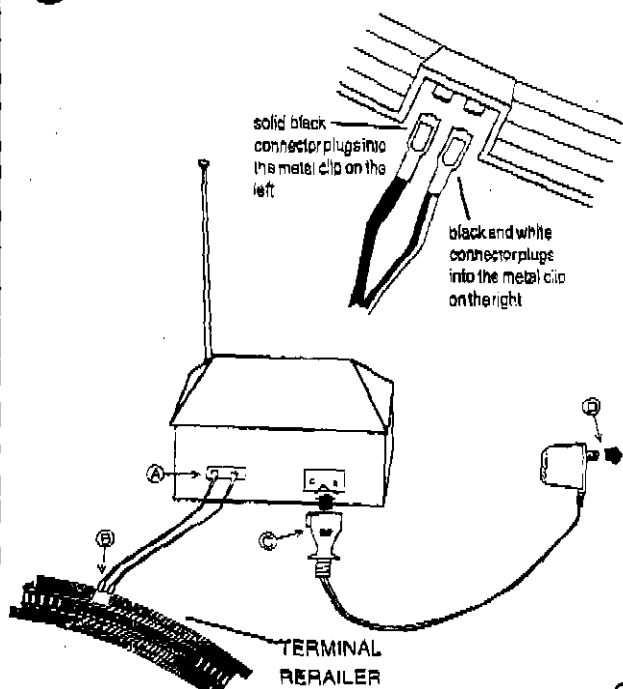
1. Hold one bridge side so that the notches are at the bottom and pointing toward the left. Slide one notch into the side of the slot located at the top of one of the tallest piers (**fig. 1**). Be sure that the notch goes straight in the side and above the small bar near the center of the pier. Insert the other notch of the same bridge side into the slot of the other tallest pier.
2. Hold the other bridge side so that the notches are at the bottom and pointing toward the right. Slide the notches into the sides of the remaining slots at the top of the two tallest piers (**fig. 2**).



3. Place assembled bridge under track where indicated in track diagram on page 2. **Note:** For this track configuration, the pegs on the top of the **tallest** piers **do not** snap into the holes in the underside of the track pieces. Simply position the bridge under the track.
4. Now place one set of the remaining piers, in order of descending height, under the track going away from one side of the bridge. Insert the pier pegs into the holes in the bottom of the track where indicated in the track diagram on page 2. Press down firmly on track to secure piers (**fig. 3**). Repeat for remaining set of piers on the other side of bridge.



3 CONNECTING YOUR POWER PACK AND RECEIVER



- (A) Raise antennae and place roof on receiver with black colored roof.
NOTE: The receiver with the black colored roof is controlled by the black colored transmitter. The receiver with the brick colored roof is controlled by the brick colored transmitter.

Loosen the screws on the terminals of your receiver. Slip the forked end of the black and white terminal wires under the left screw. Slip the forked end of the solid black terminal wire under the right screw. Make sure that each fork is touching only 1 screw and not the other fork. Tighten the screws.

- (B) Plug the solid black connector located on the other end of the terminal wire into the metal clip on the left of the terminal rerailer track. Plug the black and white connector located on the other end of the terminal wire into the metal clip on the right of the terminal rerailer track.

- (C) Plug the wires from the power pack into the receiver.

- (D) Plug the power pack into the wall outlet.

Follow these steps again with the receiver with the brick colored roof.

- (E) Connect one 9 VA battery (not included) to each of the transmitters.

IMPORTANT:

Make sure that the forked ends of the terminal wires are not touching each other.

Check to see that each fork connector is touching only one screw.

Make sure that the connectors on the other end of the terminal wires are securely plugged into the metal clips on the terminal rerailer.

client can not modify the product.

4 USING POWER PACK

Your new power pack is an electrical appliance and should be operated with the same caution you would apply to any electrical apparatus. By following a few safety rules, you can keep your power pack trouble-free.

1. Unplug power pack when not in use. Always grasp the power pack at the outlet. Do not pull the cord to remove the power pack from the wall outlet.



2. Make sure the power cord does not cross an area where someone could trip over it. Be sure there's enough slack in the cord when it's connected to the outlet and the power track.



3. Keep liquids away from power pack. Should it get wet, do not touch! Turn off the power at a wall switch or fuse box before removing the power pack from the outlet.

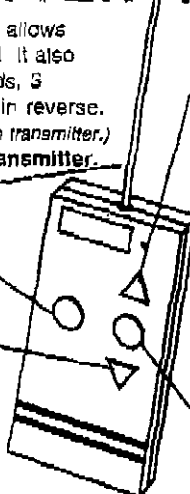


5 TRANSMITTER FEATURES

Your remote control transmitter allows control from up to 20 feet away! It also provides realistic railroad sounds, 3 speeds forward, and 3 speeds in reverse. (One 9 Volt battery required for each transmitter.) Insert battery into back of transmitter.

Raise antennae. Press this button to hear realistic railroad sounds.

Press this button once for the loco to go in reverse slowly. Press again to go faster. Press again to go at the fastest speed. While in forward motion, press this button once, twice or three times to reduce speed.



Press this button once to start the locomotive to move forward. Press again to increase the speed. Press again to make the locomotive go at top speed. While in reverse, press this button once to decrease speed. Press again to decrease speed one more notch. Press again to reduce to lowest speed.

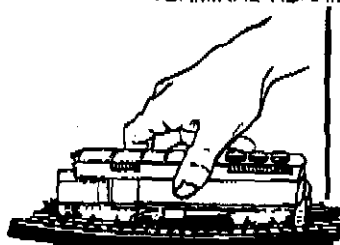
Press this button to stop the locomotive quickly.

6 RUNNING YOUR LOCO

1. Place loco on terminal/rerailer track. Gently push it back and forth until all wheels are on the track.

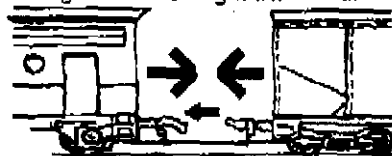
TERMINAL RERAILER

2. Break in your loco by running it forward for 10 minutes at slow speed, then backward 10 minutes at slow speed.



7 ADDING YOUR CARS

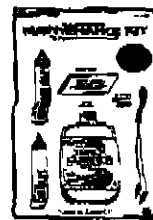
1. Your freight cars are packed individually. Carefully turn the wheelset clockwise so the coupler faces outward. Place each car on the track.
2. Gently push cars back and forth over terminal/rerailer until all wheels are on the track.
3. Couple cars to each other or to loco by pushing them together on straight track until couplers lock.



8 KEEP TRACK CLEAN

For the best performance of your train it is important to keep the rails clean.

1. Use liquid **TRACK CLEANER** (ITEM #1415) on your model railroad regularly to prevent and remove build-up of grease, oil, dirt and oxidation that prevents good electrical contact.
2. Use **TRACK BRITE** (ITEM #1440) for spot cleaning and rail polishing. Removes stubborn caked on dirt and old oxidation on track.
3. The Life-Like **MAINTENANCE KIT** (ITEM #8629) includes **TRACK CLEANER**, **TRACK BRITE**, a grease and oil gun, and a electrical trouble shooter. This kit will allow you to locate electrical problems, improve operation and keep track clean. You will get peak performance and longer life from your model railroad.

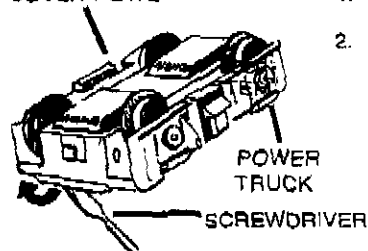


NOTE TO PARENTS

Transmitter, power pack, and connecting wires should be examined periodically for conditions such as: frayed or loose wires, metal touching metal, dirty electrical contacts, careless or sloppy wiring, such as damage to the output cord, blades, housing or other parts, that may result in fire, electric shock or injury to persons. In the event of such conditions, the power pack should not be used until properly repaired.

9 TAKING CARE OF YOUR LOCO

COVER PLATE



1. Use Life-Like **TRACK CLEANER** or **TRACK BRITE** on metal locomotive pick-up wheels to keep them clean.
2. Your Life-Like locomotive is factory lubricated. If the loco becomes noisy after running many hours, it may need additional lubrication. Use only Life-Like Grease Gun Grease Gun available in Life-Like's Maintenance Kit, #8629) specially blended for your locomotive.

To lubricate, pry off the cover plate on the power truck with a small screwdriver as shown. Apply grease sparingly to gears. DO NOT over lubricate.

10 PAINTING YOUR SIGNS

To add authentic detail to your utility poles, you may want to paint the street lamps and transformers silver before you assemble the detail parts. Call boxes may be painted yellow. Be sure to use plastic-compatible modeling paints.

To increase the realism of your unpainted signs, use a permanent fine point black marker to color the raised portion on the signs. Carefully slide the side of the marker's point across the raised lettering or picture until the raised portion is as dark as you want it to be. The poles and bases may be painted brown if desired.



PROBLEMS?

HAVE YOU...

- **Double-checked your assembly instructions?**

You may have skipped a key direction.

- **Double-checked your operating instructions?**

It lists symptoms and cures for common problems.

If something is still wrong, contact Life-Like!

CALL US TOLL-FREE!

QUICK ACTION SERVICE DEPARTMENT

HOURS: 9:00 AM — 3:30 PM (EASTERN TIME)

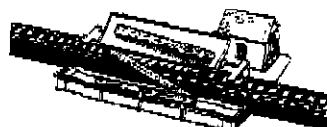
MONDAY — FRIDAY

1-800-638-1470

Or write: LIFE-LIKE PRODUCTS, INC., CONSUMER SERVICE DEPT., 1600 UNION AVENUE, DOCK 2, BALTIMORE, MD 21211-1998

MORE FUN!

Your new train set includes many exciting, realistic extras to get you started. Additional accessories can be purchased from your local model railroading retailer. Make your train layout grow with great add-ons from Life-Like. See the back section of the enclosed *Beginner's Guide to Model Railroading* for a more complete listing of additional Life-Like products.



Operating Accessories



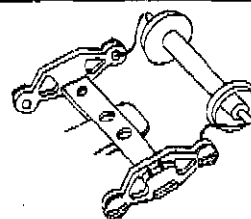
Buildings



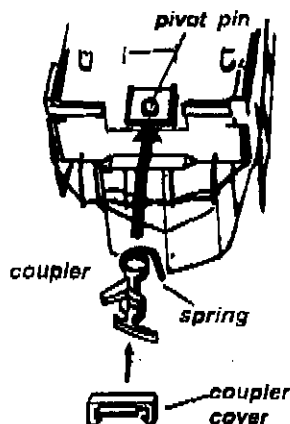
Landscaping Materials

REPLACING WHEEL SETS

The freight cars wheels and axles are adjusted for maximum free rolling. Occasionally, rough handling in shipping will cause the wheels to pop out of the side frames of the cars. The wheels can be easily replaced by spreading the side frames and inserting the axles into the indentations of either side of the tracks.



11 REPLACING COUPLERS



If you break or lose a coupler on your GP38 lo-nose loco, extras are included. Turn the locomotive upside down and pop the coupler cover off using a small screwdriver. Remove the broken coupler and replace it with a new one. The hole in the coupler fits over the pivot pin. The pivot pin spring should fit into the small groove located at the bottom right corner of the coupler pocket. Re-attach the coupler cover. The small tab on the cover faces the wheels of the loco, and the large tab faces away from the loco. (Notice the placement of the other coupler on your loco.)

If you break or lose a coupler on your F7 loco, freight cars or caboose, extras are included. Remove the broken coupler by twisting off. Push the new one into the coupler pocket (fig. 4) and gently twist it until the pivot pin pops into the shank hole (fig. 5, fig. 6).

For the F7 loco's front coupler, you must first remove the pin, then slide the coupler out. To replace, place the coupler in, then insert pin.

fig. 4

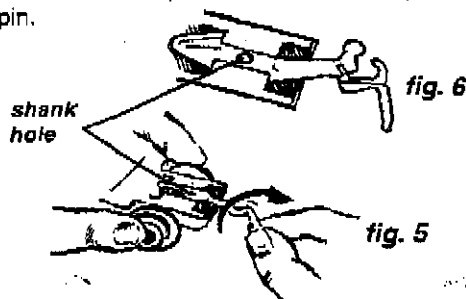
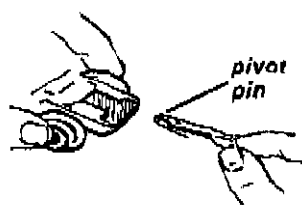


fig. 5

MAKING LAKES AND ROADS

You can make lakes, ponds or winding streams!

1. Using scissors, cut out different shapes from the Life-Like lake paper.
2. Use white glue to secure lake paper to grass mat. Place where you wish.
3. Put lichen shrubs, path or earth along edges. You can even make islands!

With the earth material, you can make roads, fields, and much more!

1. Draw roads with pencil.
2. Brush white glue between lines. Sprinkle on earth or path.
3. Allow to dry and remove the excess earth or path.

(IMPORTANT: Loose materials can get inside loco motor, also debris on track can cause derailments.)

Mountain paper works perfectly cut into sections, crumpled for texture, securing edges of the paper to the board to create realistic rocks, hills and boulders.





LIFETIME LIMITED WARRANTY

LIFE-LIKE PRODUCTS, INC. will repair or replace (at its option) any part which it finds faulty in workmanship or material provided these instructions are followed:

1. Fill out form for adjustment ADVISING NATURE OF PROBLEM and your name and address.
2. All returned items must be shipped to LIFE-LIKE postage fully prepaid, along with \$5.00 for return postage and handling. IF PART IS RETURNED WITHIN 90 DAYS OF PURCHASE, RETURN POSTAGE AND HANDLING FEE NEED NOT BE INCLUDED - NOTE: Proof of purchase with date must accompany returned part.
3. Send Adjustment Form or facsimile, defective part, plus postage and handling to: **Consumer Service Dept., LIFE-LIKE PRODUCTS, Inc. 1600 Union Avenue, Dock 2, Baltimore, Maryland 21211. PLEASE! DO NOT RETURN THE ENTIRE SET. IT WILL ONLY CAUSE UNNECESSARY DELAYS AND CAN CAUSE FURTHER DAMAGE.**
4. Pack properly to protect item against added damage.
5. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This train set is warranted against defects in workmanship and materials for as long as it is in the possession of the original purchaser or owner.

This warranty does not include the cost of any inconvenience nor does it cover transportation damage, misuse, abuse, accident, or any item which has been tampered with. The warranty does not apply to electric bulbs.

ADJUSTMENT FORM

Please Use This Form When Ordering Missing Parts or
Returning Damaged Parts

NOTE: RETURN ONLY THE PART(S) THAT MUST BE REPAIRED OR REPLACED.

Do not send the entire set! Your packaging can cause unnecessary damage. If possible, return part in original package or rewrap securely with strong package tape before mailing.

<u>PART(S) RETURNED</u>	<u>NATURE OF PROBLEM (Brief Description)</u>

MAIL TO: Consumer Service Dept., LIFE-LIKE PRODUCTS, Inc.
1600 Union Avenue, Dock 2, Baltimore, Maryland 21211

NAME

ADDRESS

CITY

 STATE

 ZIP

RETURN THIS ENTIRE PORTION...PRINT CLEARLY---THIS IS A SHIPPING LABEL
CONTENTS MERCHANDISE---POSTMASTER: THIS PARCEL MAY BE OPENED FOR INSPECTION.
RETURN POSTAGE GUARANTEED.

ITEM NO. 8964

IF YOU HAVE PROBLEMS OPERATING THIS SET...

IF THE TRAIN RUNS BUT THE SOUND DOES NOT WORK:

1. Check the transmitter battery, replace if needed.
2. Make sure the antennae on the transmitter and receiver are fully extended.
3. Move the transmitter within five feet of the receiver.
4. Push the "sound" button on the transmitter.
5. Does the red light on the transmitter light up when the sound button is pushed? If not, you need a new transmitter. If it does light, you need a new receiver. Call 1-800-638-1470 for assistance.

IF THE SOUND WORKS BUT THE TRAIN DOES NOT RUN:

1. Follow steps 1-3 above.
2. Position the locomotive on the terminal rerailer track and make sure all wheels are properly on the track.
3. Press the "forward" button on the transmitter three times.
4. Does the red light on the transmitter light up each time the "forward" button is pushed? If not, you need a new transmitter. Call 1-800-638-1470 for assistance.
5. Is the red light on the receiver between the track connections and the power pack plug lit? If not, call 1-800-638-1470 for a replacement receiver.
6. If the set still does not work, you need a new locomotive. Call 1-800-638-1470 for assistance.

IF THERE IS NO SOUND AND THE TRAIN DOES NOT RUN:

1. Follow steps 1-3 at the top of the page.
2. Check all wiring connections, see page 4, section 3, "Connecting Your Power Pack & Receiver," of the instructions.
3. Check your wall outlet. Plug in a lamp you know works. If the lamp does not work, there is a problem with the outlet. Plug the power pack into another outlet that you tested and you know works.
4. If the set was working previously, the overload protector in the power pack may have tripped. Remove any metal parts that may be lying across the rails, wait fifteen minutes, and try again.
5. If the set was working previously, the locomotive wheels and/or track rails may be dirty. Clean them as described on page 5, section 8, "Keep Track Clean," of the instructions.
6. Push the "sound" and "forward" buttons on the transmitter three times. Does the red light on the transmitter light up? If not, you need a replacement transmitter. Call 1-800-638-1470 for assistance.
7. Is the red light on the receiver between the track connections and the power pack plug lit? If not, call 1-800-638-1470 for a replacement power pack.
8. If the set still does not work, you need a replacement receiver.

If you still cannot find the cause of any problem, call us

TOLL FREE 1-800-638-1470

THE FCC WANTS YOU TO KNOW: Your train set might cause TV or radio interference even when it is operating properly. To determine whether your train set is causing the interference, turn off your train set. If the interference goes away, your train set is causing the interference. Try to eliminate the interference by moving your train set away from the TV or radio.