

Instruction Manual - Lilly Belle

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The Carolwood Pacific Railroad - A Brief History

Walt Disney's lifelong passion for railroads started while he was a boy growing up in Missouri. He and his older brother Roy would often wait for the trains that roared through their hometown of Marceline. Often, their uncle, Mike Martin, would be at the throttle of the mighty steam engine and would wave to the boys as he passed. During visits to the family farm, Mike would entertain the boys with exciting stories of life on the rails, and legendary figures such as Casey Jones and Buffalo Bill.

Many years later, Walt rekindled his love of trains. In the 1940's, he frequently visited the backyard railroads of two of his key animators, Ward Kimball and Ollie Johnston. He decided to construct a home with enough land to allow him to build his own backyard railroad. It was located in the Holmby Hills area of Los Angeles on Carolwood Drive, and he called his railroad the Carolwood Pacific.

He decided that the size of his steam engine would be one-eighth of a full-scale locomotive. He based his engine on the famous Central Pacific 173, which was the first steam engine built in California. Walt, Roger Broggie and the machinists at the Disney Studios machine shop built the large-scale miniature. Its first run at Carolwood was in May 1950, and he named it "Lilly Belle" in honor of his beloved wife, Lillian.

Walt's friends and family enjoyed the Carolwood Pacific for over three years. Walt even started work on a second engine to handle the many guests that came to Carolwood. Over time, however, the dangers of running a railroad at his home became troublesome for him. He shut down the Carolwood Pacific and set his sights on a new goal: a wondrous park where families could play together. His first description of this magical place was, "I just want it to look like nothing else in the world... and it should be surrounded by a train." This vision would become the place we all know as Disneyland.

In 1993, Michael Broggie, son of Roger and author of "Walt Disney's Railroad Story", founded the Carolwood Pacific Historical Society. We are dedicated to preserving and promoting Walt Disney's rich railroad legacy. Among our activities are the care of Walt's Carolwood barn (now located in Griffith Park), the restoration of Walt Disney World's Fort Wilderness railroad, and products such as this recreation of Walt's Lilly Belle. Future projects include a feature film documentary of "Walt Disney's Railroad Story" and an exhibit at the California State Railroad Museum that will celebrate Walt's unique contributions to steam railroad preservation. You may learn more about us at www.carolwood.com. We hope that you will consider joining our Society.

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You now own the finest Gauge 1 reproduction of the Lilly Belle. It was hand crafted by Accucraft Trains using the original 1949 blueprints, and both Michael and his brother Roger Broggie, Jr. meticulously inspected and refined the prototypes. (Roger worked as a machinist's apprentice on the original Lilly Belle, and was the creative force behind the completion of Walt's second locomotive - the Lilly Belle II - that is now on display at Disneyland.) This Accucraft Trains' model is simply the finest possible garden gauge recreation of the Carolwood Pacific 173.

Please complete and return the enclosed registration card at your convenience. We are planning additional items to complement your Accucraft Lilly Belle - such as Walt's yellow bobber caboos - and will be happy to contact you as they become available.

Best Wishes,

Michael Campbell
Board of Governors
Carolwood Pacific Historical Society

December 5, 2001



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General Information - Lilly Belle

Technical Specifications:

Scale/Gauge:	1/24, 45 mm Gauge
Total Weight:	5.9 Kg, 13.0 lbs.
Length:	724 mm, 28.5 ins.
Width:	121 mm, 4.75 ins.
Height:	191 mm, 7.5 ins.
Minimum Radius:	0.9 M, 36 ins.
Power:	0v-24v DC Pittman Gearhead Motor
Features:	Complete cab interior details Operating cab windows Detailed boiler with fittings, domes, pipes, and handrails Operating steel drive rods, valve gear and cross heads Prototypical livery and lettering Scale couplers (compatible with Kadee #835) Pittman DC gearhead motor (GM8712-31) Steel helical gears in a die-cast transfer box



The following parts are packaged separately

- M3 hex head screws
- Flag posts
- Spare parts

Caution!

This model is an accurate replica of the original locomotive. It has sharp and moving parts. The locomotive drive rods are stainless steel with sharp edges. **AT ANY TIME, OPERATORS MUST NOT BECOME IN CONTACT WITH THE MODEL WHILE IT IS POWERED. UNDER NO CIRCUMSTANCES SHALL ACCUCRAFT TRAINS BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING IN REGARD TO ANY ACCUCRAFT PRODUCT.**

Maintenance Instructions - Lilly Belle

Tools you will need for maintenance

- 1.5 mm allen wrench
- 3 mm hex wrench
- Flat head screw driver

Lubrication

Please lubricate your Lilly Belle before attempt to operate.

Lubricants: always use quality lubricants!

Light oil such as Labelle #108 or Whal Clipper Oil

Heavy lubricant such as Labelle #102 heavy gear oil or Label grease

Prepare the engine for lubrication by placing the model gently on the work surface on a piece of foam sheet or soft towel to protect the locomotive finish. The engine should be on its side. Be careful to keep lubrication off the painted surfaces as this causes shiny areas.

1. First lube the bushings on the driver journals with a small amount of heavy lube oil. The oil is easily applied with a wood tooth pick.
2. Next lube the U-Joints and tender journals with light machine oil.
3. Next lube the crank shaft journals, main rod bearings and crosshead with light machine oil.
4. THE MAIN GEAR BOX IS LUBRICATED IN THE FACTORY. NO LUBRICATION IS NECESSARY WHEN YOU RECEIVE YOUR MODEL. To lube the main gear box, remove the cover of the gear box carefully (make sure you familiarize your self with the position of all parts). Place the screws in a small container to prevent loss. Grease the gearing and shaft bearings generously. Replace the cover exactly the way it was when you started.

It is a good idea to wipe off all excess light oil when you complete the lubrication process.

You have now completed the lubrication of your Accucraft Lilly Belle.

THIS LUBRICATION SHOULD BE REPEATED EVERY 25 HOURS OF OPERATION!

Operation - Lilly Belle

After following the recommended lubrication procedures your Lilly Belle is ready to provide many years of reliable operation. We recommend that you use a D.C power supply with a capacity of 2.5 amps or larger. Always pick your model up by grasping it under the frame on both ends. It is a very heavy model so make sure that you grasp it firmly.

- ***Electrical Pickup***

The Lilly Belle model is powered by the DC voltage off the track through the engine and the tender. All Lilly Belle drivers are insulated on both sides of the locomotive, and the electricity is picked up with 12 pickup wheels. Track power is connected to the Accucraft Trains' control circuit board which is located in the tender.

- ***Control Circuit Board***

All input and output terminals on the control circuit board are labeled for easy access. Two "On/Off" switches are added to the circuit. "M" switch can disconnect the locomotive motor from its powered wheels.

- ***Lighting***

The constant voltage is set at 1.5V.

- ***Smoke unit***

Accucraft Trains doesn't recommend any smoke unit for this model due to the prototypical smoke stack design.

- ***Sound Installation***

Due to prototypical design, sound units can not be fitted in this model. We recommend a separate box car for sound units.

- ***General maintenance***

Clean the exterior surfaces of your locomotive with a clean, soft and lint free cloth.

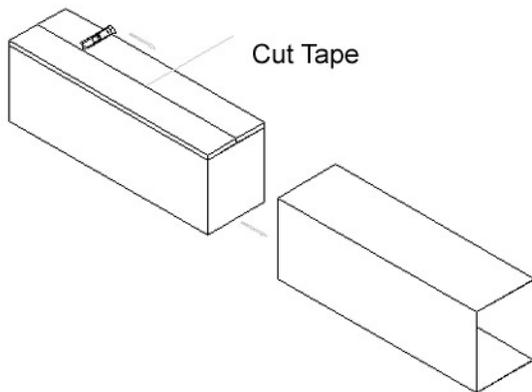
Unpacking Lilly Belle

Accucraft Trains locomotives are fine scale brass models with small parts. To provide maximum protection from shipping damage, we carefully pack the models in metal cases. We ship via UPS with insurance coverage to its full value. Please contact UPS if package is damaged.

Each locomotive is packed under UPS guideline for shipping. We do not warrant any damage resulted from re-packaging by any party other than Accucraft Trains.

Please read the following directions before unpacking your locomotive.

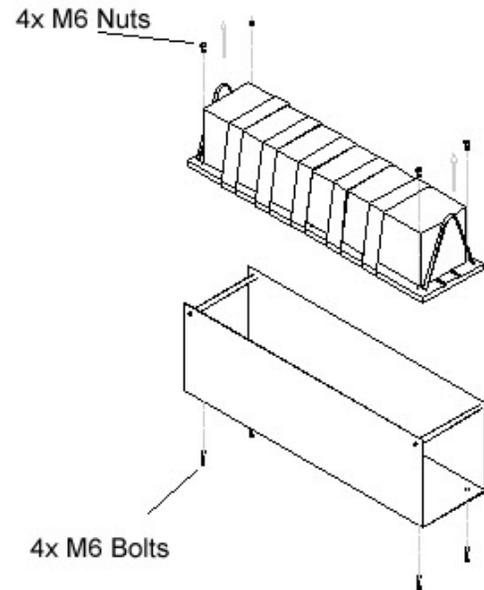
1. Remove foam around the locomotive. Slide the inner box cover to the side, and open the inside cardboard box with a cutting knife.



2. Lift the metal case from the cardboard box.

3. The locomotive is firmly taped to a 1/2" wood board which is then fastened to the metal case with 4 M6 bolts. Bolts

removed before lifting the locomotive with wood board from the metal case.



4. Place taped locomotive on a flat surface. Carefully cut the tape along the wood board side surface. Be sure to cut both sides of the wood board. Slowly lift the tape from the locomotive. Be very careful with small parts. Tape cannot be re-used to re-pack the model. Use new packing tape if necessary.

