Lionel 2232050

Lionel Bethlehem Steel Legacy A5 0-4-0 Steam Engine #76 O Gauge Instruction Manual

Model: 2232050

Introduction

This manual provides essential information for the safe and proper operation and maintenance of your Lionel Bethlehem Steel Legacy A5 0-4-0 Steam Engine #76. This O Gauge model locomotive is designed for industrial areas or tight spaces on your model railroad layout. Please read these instructions thoroughly before operating your locomotive.

Safety Information

Always observe the following safety precautions:

- Keep fingers and loose clothing away from moving parts.
- Ensure the track and power supply are correctly installed and free from obstructions.
- Do not operate the locomotive near water or in damp conditions.
- Unplug the power supply before performing any maintenance or adjustments.
- This product is not a toy and is intended for ages 14 and over.

Package Contents

Verify that all components are present upon unpacking:

- Lionel Bethlehem Steel Legacy A5 0-4-0 Steam Engine #76 Locomotive
- Tender
- Instruction Manual (this document)

Note: Additional accessories may be sold separately.

Setup

1. Track Preparation

Ensure your O Gauge track is clean, properly assembled, and laid on a stable surface. The minimum curve radius required for this locomotive is O31.

2. Connecting Locomotive and Tender

Carefully place the locomotive and tender on the track. Connect the tethered connection cable between the locomotive and tender. Ensure the connection is secure for proper electrical contact and improved slow-speed operation.



Image: Top 3/4 view of the Lionel Bethlehem Steel Legacy A5 0-4-0 Steam Engine #76, showing the locomotive connected to its tender on a section of O Gauge track.

3. Power Connection

Connect your electric power supply to the track as per your track system's instructions. This locomotive operates with a standard transformer in Conventional mode or with LEGACY/TrainMaster Command Control systems.

Operating

Control Systems

The locomotive supports multiple control modes:

- **LEGACY Control Mode:** For advanced operation with a LEGACY Control System.
- **TrainMaster Command Control (TMCC) Mode:** Compatible with TMCC systems.
- **Conventional Mode:** Operates with a standard transformer.

Bluetooth and Voice Control

- **Bluetooth Control:** Operate using a Universal Remote or the Lionel LionChief App on your smart device.
- **Lionel Voice Control (LVC):** Utilize voice commands through the LionChief App for locomotive operation.

Odyssey II Speed Control

The integrated Odyssey II Speed Control system maintains consistent speed regardless of load or grade, enhancing realism.

Lighting Features

- **Directional Lighting:** Includes an operating headlight and a back-up light on the rear of the tender.
- **Bicolor Illuminated Classification Lights:** Located on the front of the locomotive. Using a Legacy controller, these lights can be changed between white or green.

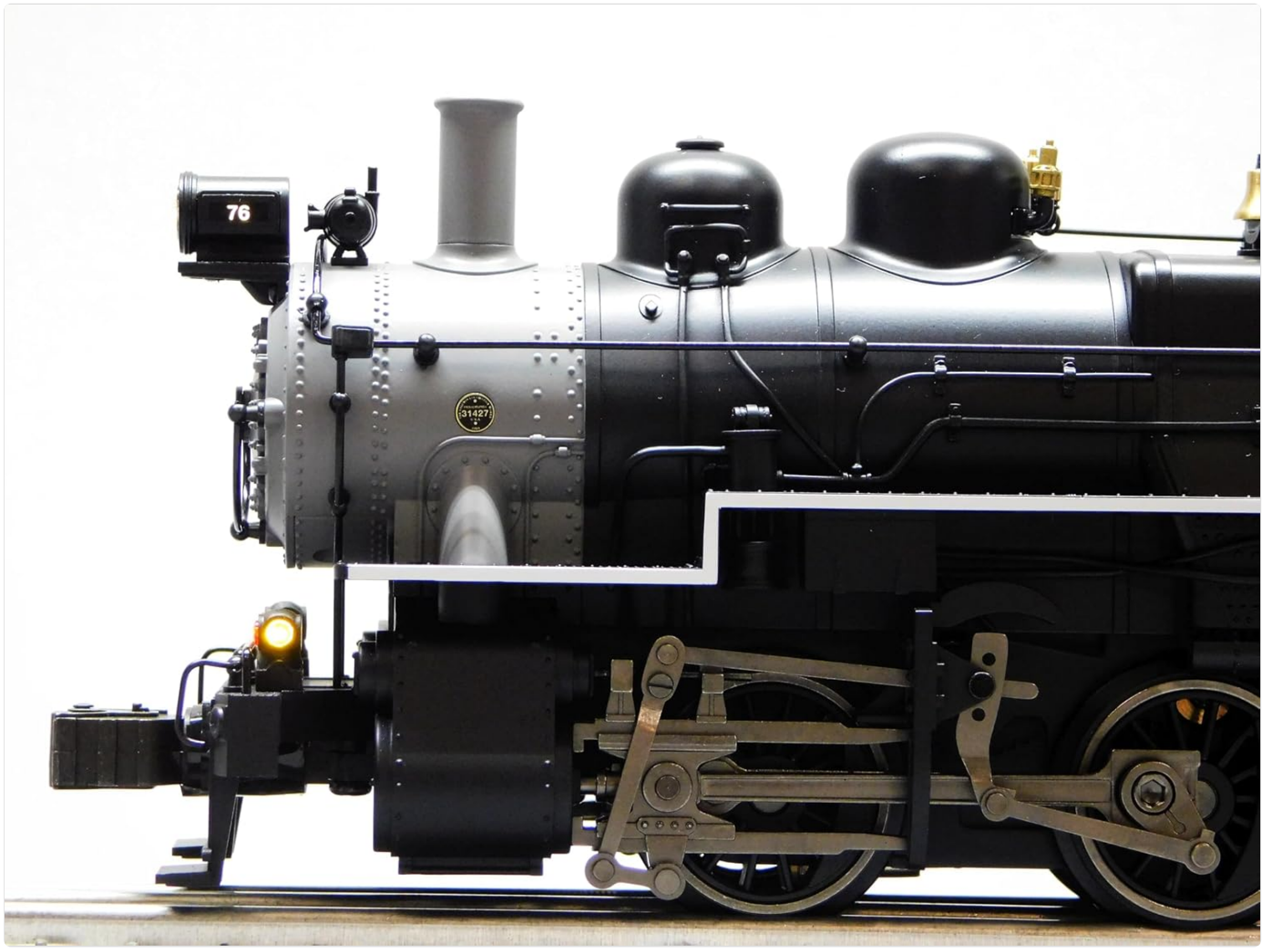


Image: Detailed front view of the locomotive, showing the headlight, bell, and classification lights on the smokebox.

Smoke Unit

The locomotive features a synchronized fan-driven smoke unit with adjustable smoke output. Refer to your LEGACY or TMCC system manual for instructions on filling and operating the smoke unit.

LEGACY RailSounds Sound System

Experience realistic audio effects with the LEGACY RailSounds system:

- **CrewTalk Dialog:** Different scenarios depending on locomotive motion or stop.
- **TrainSounds:** Mimics operating dialog during motion or stops.
- **DynaChuff:** Synchronized with 32 levels of intensity as the locomotive gains speed.

- **LEGACY "Real-Time Quilling Whistle":** Instant response for realistic signature quilling and correctly timed warning signals. Choose from 5 different whistles.
- **Mechanical Bell Sounds:** Single hit or continuous, with 5 levels of bell pitching.
- **Sequence Control:** Plays sound effects of an entire trip, including warning sounds and announcements, based on movement and speed.
- **Additional Sounds:** Current speed and fuel dialog, coal or oil loading sound effects.

ElectroCouplers

The locomotive is equipped with dual ElectroCouplers for remote uncoupling, one on the rear of the tender and potentially one on the front of the locomotive (if applicable to this model).



Image: Side view of the tender for the Bethlehem Steel Legacy A5 0-4-0 Steam Engine #76, featuring the Bethlehem Steel logo and the rear ElectroCoupler.

Maintenance

General Cleaning

Regularly wipe down the locomotive and tender with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive materials.

Traction Tires

Inspect the traction tires periodically for wear. Worn traction tires can affect pulling power and smooth operation. Replace

them as needed according to Lionel's recommended procedures.

Motor

The locomotive features a powerful, maintenance-free motor with a momentum flywheel. No user lubrication or internal maintenance is typically required for the motor itself.

Troubleshooting

If you encounter issues, consider the following:

- **No Power:** Check all track connections and power supply. Ensure the locomotive is properly seated on the track.
- **No Sound/Smoke:** Verify that the control system is properly configured and that the smoke unit has fluid (if applicable).
- **Erratic Operation:** Clean track and wheels. Ensure the tethered connection between locomotive and tender is secure.
- **Control Issues:** For Bluetooth/App control, ensure your device is paired and the app is updated. For LEGACY/TMCC, consult your system's manual.

For persistent issues, contact Lionel customer support.

Specifications

Feature	Detail
Road Name	Bethlehem Steel
Road Number	76
Gauge	O Gauge
Power	Electric
Engine Type	Steam
Minimum Curve	O31
Dimensions (Length)	17 inches
Control Systems	LEGACY, TMCC, Conventional
Bluetooth Control	Yes (Universal Remote, LionChief App)
Voice Control	Yes (Lionel Voice Control via LionChief App)
Speed Control	Odyssey II
Smoke Unit	Synchronized fan-driven, adjustable output
Sound System	LEGACY RailSounds
Couplers	Dual ElectroCouplers

Warranty and Support

For warranty information and technical support, please refer to the official Lionel website or contact Lionel customer service directly. Keep your proof of purchase for any warranty claims.

Lionel Website: www.lionel.com

Customer Service: 1-800-4LIONEL (1-800-454-6635)

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question