Hartland Locomotive Works

Products

Engines:
- Class C 0-4-0 4-4-0 American
- Class B 0-4-0 Big John
- Class A 0-4-0 2-4-0 Dutchess W/Tender
- 2-4-4 Forney “Mighty Mack” Switcher
- Rail Motor Car Interurban
- Rail Bus “Woody” Rail-Car
- Line Car “Woody” Pick-Up
- “Sparky” Switcher Birney Trolley
- Mining Engine 2-6-0 Mogul

Starter Sets:
- South West Army Set

Rolling Stock:
- Flat Cars Log Cars (Real Logs)
- Gondolas Box Cars
- Caboose Work Caboose
- Long Passenger Coaches, Combos & RPOs
- Short Passenger Coaches & Combos

Track:
- Brass Track Aluminum Track
- Specialty Orders (Call for Details)

Hartland Locomotive Works
Designed and Manufactured in LaPorte, IN U.S.A.
P.O. Box 1743
LaPorte, IN 46352
Voice (219) 362-8411
Fax (219) 362-7568

Big John
Operation and Warranty Manual

Hartland Locomotive Works thanks you for your purchase. Your Locomotive is an American made product, manufactured in LaPorte, Indiana and is designed to give you years of service. Your Locomotive is not a toy, and is intended for use by adults 18 years of age or older.

Our Pledge to you:
To bring you the Highest Quality, American Built, G-scale Products at an Affordable Price.
**Motor and Power Specifications**

Your HLW Locomotive is equipped with a 12 V DC precision, industrial-grade motor. The motors are mounted in a weather resistant housing and are intended to be waterproof. We recommend using a 2.5 amp power pack with variable speed control. Avoid using "pulse power" as it will eventually harm your motor.

**Locomotive Drive Wheels**

Drive wheels require cleaning every time the track is cleaned. Turn the locomotive over and wipe the exposed portion of the drive surface with a cloth. Excessive dirt build-up may require use of a brass bristle brush. Place the locomotive on the track and electrically move the unit approximately 1/3 revolution of the wheels. Repeat the wiping process until the unit is clean.

**Caution:** Under no circumstances should the locomotive drive wheels be turned by hand. Wheels should be turned electrically, with the locomotive on the track.

**HEADLIGHT BULB REPLACEMENT**

Your HLW Locomotive comes with a long life direct-wired light that may never need replaced. Should your bulb ever need replaced please contact the HLW Parts and Service Department for parts and instructions.

**Hartland Locomotive Works Limited Warranty**

**What This Warranty Covers:**

These products are warranted to be free from all defects in material and workmanship in normal intended use for the period of one year from the original date of purchase. Warranty is subject to the following provisions. HLW will, at its option, repair or replace a defective part or unit that is covered by warranty. As a matter of warranty policy, HLW will not refund the customer's purchase price.

**What This Warranty Does Not Cover:**

Warranty remedies are not available if the product is damaged by misuse, abuse or operations not originally intended for this product.

**Commercial use and / or continuous operation:** Motor is warranted by the original motor manufacturer for one year or 1000 hours. Please contact HL W at (219) 362-8411 if problems arise.

HLW makes no other warranties expressed or implied, and will not be responsible for any consequential or incidental damages or accidents resulting from the sale or use of this product. Some states do not allow this exclusion or limitation of incidental or coincidental damages, so these limitations may not apply to you.

**Obtaining Warranty Service:**

Please call HLW at (402) 571-2933 for a return authorization. Products to be repaired should be packaged (preferably in the original carton and packing material) and shipped to:

**Hartland Locomotive Works**

8025 Dutch Hall Rd.

Omaha, NE 68122
LUBRICATION INSTRUCTIONS
Your engine, like all fine equipment, will need to be oiled from time to time. To lubricate your engine it is recommended that you use a pin oiler and only use light oil compatible with plastic that is electrically conductive. When oiling place one drop of oil on each of the locations specified in this manual. Any questions please contact your local dealer or call HLW’s Parts and Service Dept.

LOCOMOTIVE UNDERCARRIAGE OILING POINTS
Place one drop periodically of plastic compatible oil at each arrow location as shown in Fig. 1. * Don’t forget to oil both trucks * Oiling areas may be cleaned or excess oil wiped off with a damp soft cloth.

Note: Use only oil that is plastic compatible and electrically conductive!