PRR L-1 MIKADO 2-8-2

L1s were the freight counterparts to the famous K-4s because of their identical boilers. They were originally built to replace 2-8-0's in main line freight work. They were later to be known as "heroes" of World Wars I and II. The L1s gained their popularity during World War I, with the delivery of much-needed goods to U.S. soldiers.

J.T. Wallis, Superintendant of Motive Power for Lines East, along with his assistants, Alfred Gibbs and Axel Vogt, planned for the identical boilers, along with other similar parts, to be in both the L1 and K-4 models, so that the parts could be interchangeable.

Some characteristics of the L1 are: a 27" x 30" cylinder, boiler pressure of 205 pounds, and a weight of 314,600 pounds. The L1 would later be improved, with more horsepower, by stoker-firing the engine.

Between the years of 1914 and 1919, shops at Baldwin, Juniata, and Lima produced 574 locomotives identical to the original developed in 1913. Modernization of the L1s began in the 1920's. Air tanks were shoved up front after the implementation of a power reverse gear on boiler-side, and stokers were introduced very slowly, with some locos never receiving them at all. The stokers replaced hand firing of the trains. Steel pilot beams and footboards were also added in later years.

By the mid 1920's the L1s were spreading nationwide. They could be found throughout the Central and Eastern United States, and some were starting to spread into the West. With the onslaught of the depression in the 1930's, and electricfication of the east, L1 engines were now made in surplus, and pushed onto storage tracks. Two of the large storage yards were located in Hollidaysburg and Marysville, both towns in Pennsylvania. With the start of World War II came the implementation of even more stokers. Engines that had been hand fired were having stokers attached as quickly as possible.

On October 20th of 1957, L1s 520 pulled one of the last steam-powered passenger trains; the era of the steam powered engines was coming to a close.

27" x 30"

PROTOTYPE SPECIFICATIONS Cylinders

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Firebox size	79-7/8" x 126"
Steam pressure	205 lbs.
Weight of engine	
in working order	324,700 lbs.
Weight of engine	
on pony truck	31,000 lbs.
Weight of engine	
on drivers	232,500 lbs.
Weight of engine	
on trailing truck	61,200 lbs.
Tractive force	61,465 lbs.
Weight of tender, empty	77,300 lbs.
Weight of tender, loaded	189,850 lbs.
Tender capacity, water	8,835 gals.
Tender capacity, coal	38,935 lbs.
Overall length w/ tender	82' 0-1/4"
Overall height	15 feet

MODEL SPECIFICATIONS

Length w/ t	ender	11-1/2"
Height		2-1/8"
Weight		2 lb. 2 oz.
Minimum r	adius	18"
Drivers		62"
Power	Bowser D	C-71 motor

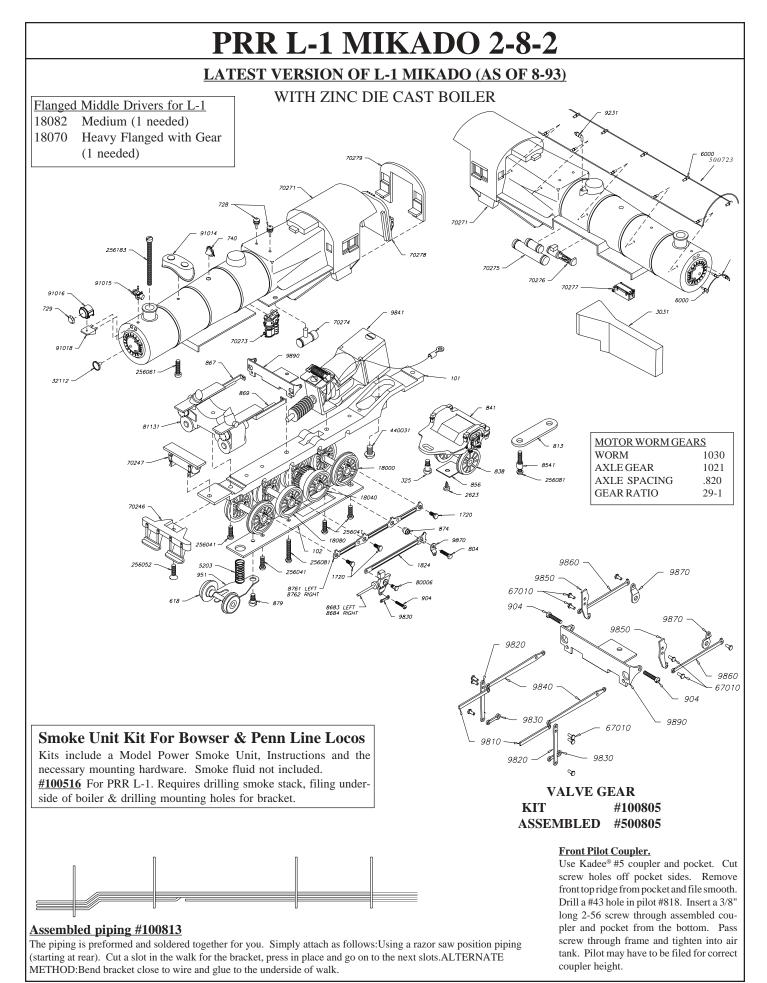
Color Brunswick Green

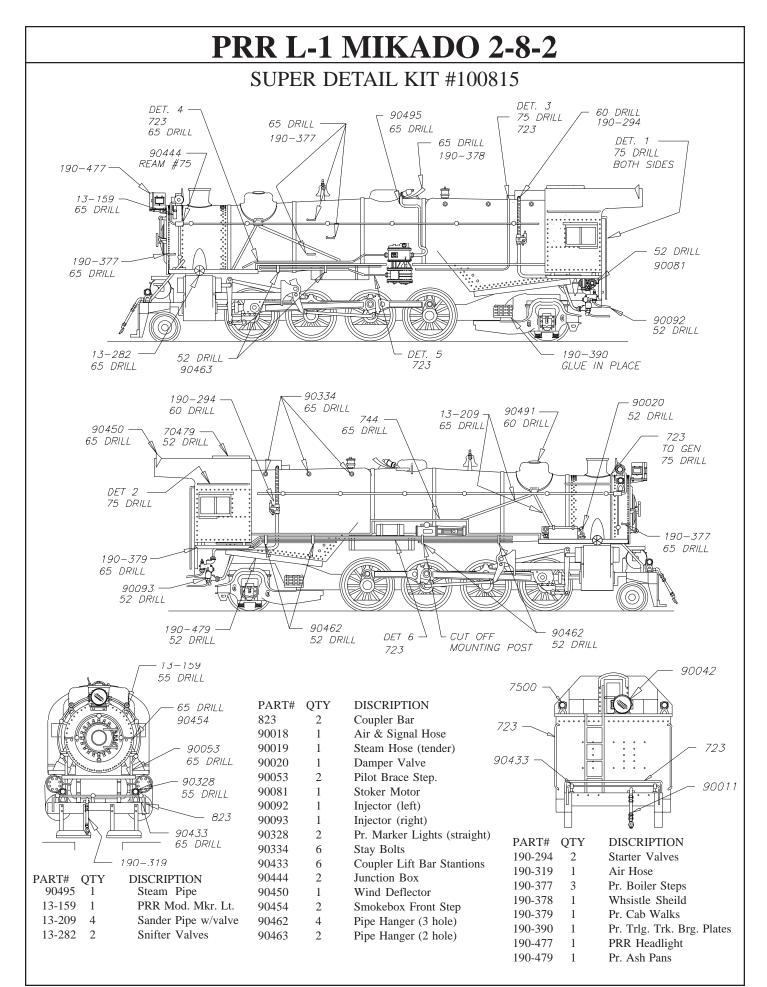
BOWSER L-1 MIKADO 2-8-2 - KITS AND ACCESSORIES

#100800 PRR L-1 Mikado w/ Tender, Kit #100810 Superdetail Kit #526 PRR L-1 Mikado Deluxe Kit (includes body & tender drilled for superdetail, parts included)

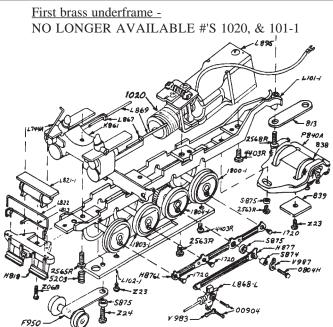
91000 Painted Engineer and Fireman #500805 Assembled valve gear #100516 Smoke Unit







PRR L-1 MIKADO 2-8-2



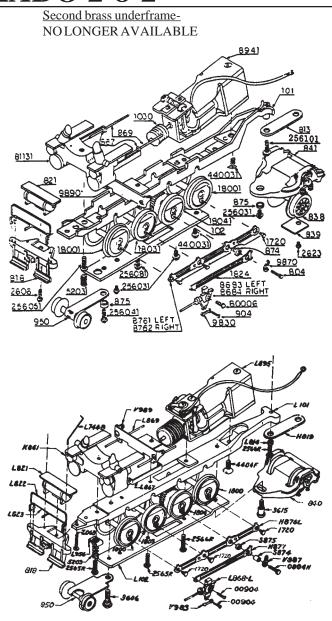
Lead Boiler For L-1 MIKADO Has Been Discontinued - See The Current Drawing For Replacement Parts.

Marker Light Jewels:

Rule of thumb: Green to front, amber to side and red to rear. The Pennsy had amber to the side and red to front and rear. When the loco was traveling forward the tender marker lights would show red. When the loco was backing up the marker lights on the pilot or smoke box front would show red. Sometimes one of the crew would change the markers to the color desired.

Operating Headlight

If you already have a headlight. Use a #91039 Grain of Rice bulb for headlight. Drill out headlight and drill a hole in front of generator to run wire to motor brushes. Solder one wire to each brush.



Old style underframe -#L-101 Underframe - NO LONGER AVAILABLE #1020 Worm - NO LONGER AVAILABLE

FOR #713 BOILER SEE NEW VERSION (8-93) (lead boiler no longer available)

The plastic crossheads formerly used by the Penn Line and Bowser companies have been replaced by metal crossheads having a steel piston rod.

When Ordering Parts For Older Style Bowser And Penn Line Loco's, Use Part Number Conversion List To Insure Receiving The Correct Parts.