

SHAY 28-TON CLASS B

1:20.3 SCALE • 45 mm GAUGE



AC77-217 28-TON SHAY OIL BURNING

Shay locomotives were developed by Ephraim Shay. His first successful engine that we would recognize today as a Shay locomotive was produced in 1880 by Lima Machine Works (later, Lima Locomotive Works), who would go on to produce approximately 2,700 up until 1945, when production ceased.

Shay locomotives are unusual in that they are powered by a steam engine of either two or three cylinders mounted vertically near the cab on the right side of the locomotive (although there were a very few with the engine on the left). The boiler was offset on the frame to counterbalance the weight of the engine. The engine drove a drive shaft that, through flexible couplings, turned bevel gears that engaged the wheels. This type of engine is known as a geared engine, since the wheels turn at a different rate from the engine, due to the gear ratio. This arrangement made the engine very flexible and able to negotiate raggedy track without derailing. Because of this characteristic as well as its great power, it was an exceedingly popular engine with logging companies and other industries that relied on tough engines in unforgiving situations.

Operating a model live-steam locomotive is much different from running an electrically powered engine. It is a more hands-on, interactive experience. The locomotive must be periodically fueled, oiled, and watered. As supplied, the Shay is manually controlled, which means that you must actually drive the locomotive using the controls in the cab, just as you would a full-size engine.

The performance of the engine is also unlike electric locomo-

tives. This Shay should pull a dozen standard-size freight cars or more on good, level track. Grades and sharp curves will diminish its capability. A good engineer will learn the engine's characteristics and idiosyncrasies over time, to get the best performance and longest duration from it

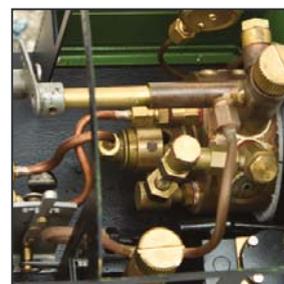
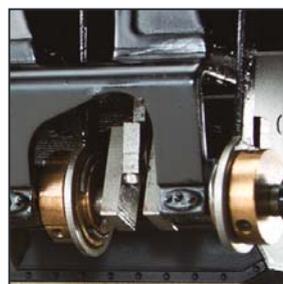
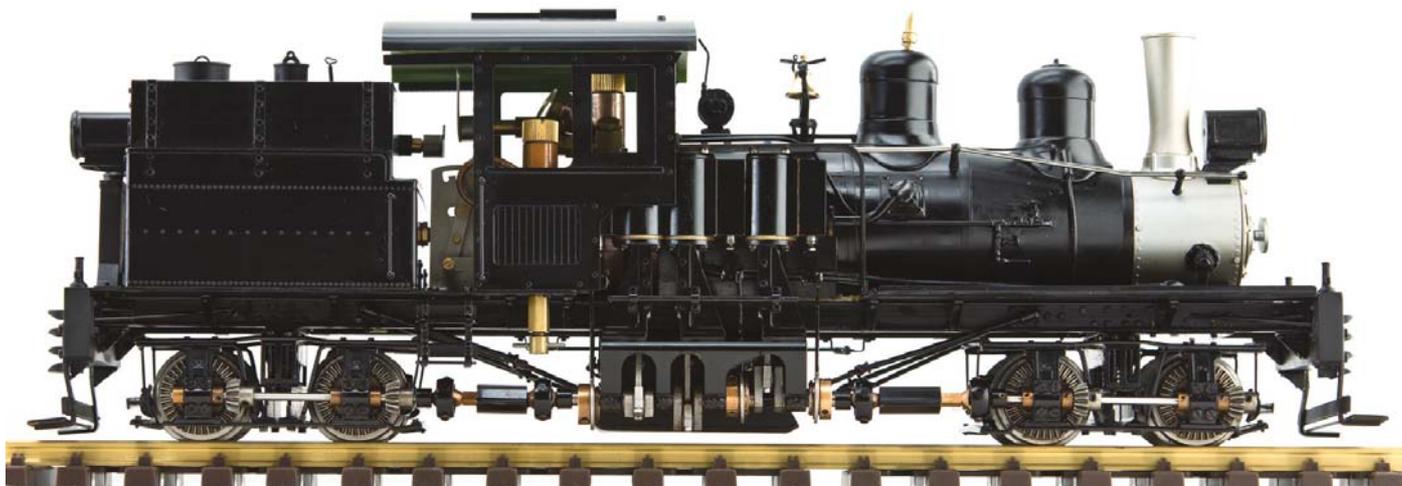
SPECIFICATIONS

Scale	1:20.3
Gauge	45 mm
Mini. radius	48 in. (1.2 M)
Dimensions	19.17 x 4.13 x 6.18 in. (487 x 105 x 157 mm)
Construction	Brass & stainless steel
Electric Version	
Power	0~24V DC
Features	Full cab interior design Constant lighting
Live Steam Version	
Power	Live steam, butane red
Boiler	Copper, butane, single flue
Features	Safety valve Pressure gauge Water level gauge Lubricator Hand operated water pump

ITEMS SUBJECT TO CHANGE IN PRICE, COLOR, SPECIFICATION, DESIGN AND AVAILABILITY WITHOUT NOTICE.

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ORDER INFORMATION

Electric Version

SKU	Description
AC78-217	Shay 28-Ton Class B, Oil Burning, Electric
AC78-218	Shay 28-Ton Class B, Coal Burning, Electric

Live Steam Version

SKU	Description
AC77-217	Shay 28-Ton Class B, Oil Burning, Live Steam
AC77-218	Shay 28-Ton Class B, Coal Burning, Live Steam

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