



1924 Baldwin 2-10-0 Decapod

At a Glance

0-60 mph est 76.5 sec

0-1/4 mile est 47.9 sec

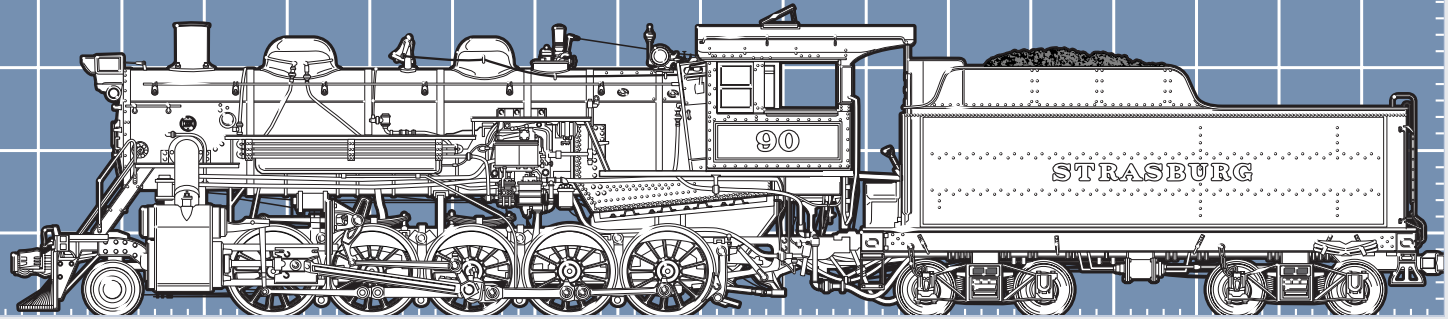
Top speed 60 mph

Brake rating very good

List Price: **\$36,552**
 Price as Tested: **Not for sale**
 (but insured for **\$1,000,000**)

Price as tested incl std equip. (6ET automatic brake system, side air reservoirs, pneumatic brakes w/rear-mounted hangers, leaf-spring 3-point suspension, pneumatically operated sand traction control, 56-in. cast steel wheels, soot patina upholstery, wood trim, manual climate control, two-way radio, keyless entry, anti-theft system [provision for padlock on throttle], non-power seats, windows & door locks, non-panorama sunroof, bell), speedometer (\$750), Value Added Pkg (incl 250-watt 34-volt headlight bulbs, injector indicators, clean glass, rear markers, rear flange oilers, snap-lid oil cup driving box fills, Teflon valve seats, polished driving rods, epoxy-coated tender tank, striping package, cross-compound air compressor, automatic bell ringer) est \$40,000.

SCALE: 50 IN. (1270 mm) DIVISIONS
 DRAWING BY TIM BARKER

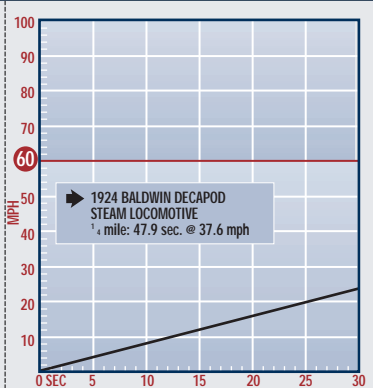


SPECIFICATIONS

Engine	Warranty	General Data	Drivetrain
Type.....steel 2-cylinder, double-acting, piston valve, 90-degree right lead, alligator-type crosshead, outside connected	Boiler.....none	Curb weight (locomotive only).....212,000 lb	Transmission:.....1-speed manual
Valvetrain.....Walschaert	Running gear.....none	Test weight.....212,300 lb	Gear Ratio Overall ratio (Rpm) Mph
Displacement.....25,334 cu in.	Chassis & Body	Weight dist, f/r %.....10/90	Direct 1:1 1:1 (30) 5
Bore x stroke.....24.0 x 28.0 in.	Layout.....front engine, 10-wheel drive	Wheelbase (locomotive only).....236.0 in.	Direct 1:1 1:1 (360) 60
Compression ratio.....variable	Frame.....steel	Track.....56.5 in.	Final drive ratio.....1:1
Horsepower (BLW).....1705 bhp = the ratio of: Calculated Water Evaporation/ Steam Used per I.H.P. Hour	Brakes.....trailing shoe	Length.....866.5 in.	Engine rpm @ 60 mph.....360
Tractive force (cyl).....47,808 lb @ 80% cutoff; 39,168 lb @ 50% cutoff	Total swept area.....6920.0 sq in.	Width.....125.0 in.	Instrumentation
Tractive force (boiler).....127,875 lb @ 5 mph; 21,312 lb @ 30 mph; 90,478 lb-ft @ 0 rpm	Swept area/ton.....66.0 sq in.	Height.....178.0 in.	60-mph speedometer, 400-psi steam-pressure gauge, water level, 200-psi air-pressure gauge (locomotive), 200-psi air-pressure gauge (train)
Torque on center.....127,935 lb-ft @ 0 rpm	Wheels.....steel, 56 x 4 with counterweights	Ground clearance.....8.0 in.	Safety
Torque w/crank-pins @ 45 deg.....360 rpm	Tires.....steel-banded ASTM A-551 Class C	Trunk space.....4.6 cu ft (in tender)	Masten Gregory Quick Release System steam whistle bell
Redline.....360 rpm	Steering.....single axle lead truck, double heart links	Towing capacity.....8 passenger cars, 400 tons, typically	
Fuel injection.....manual	Turning circle.....818 ft	Accommodations	
Fuel.....bituminous coal; semi-bituminous coal; water	Suspension.....leaf springs w/equalizer bars	Seating capacity.....2	
		Standing capacity.....3	
		Head room.....48.0 in.	
		Seat width.....2 x 15.5 in.	
		Leg room.....72.0 in.	
		Seatback adjustment.....0 deg	
		Seat travel.....0 in.	

PERFORMANCE

Acceleration	
Time to speed	Seconds
0-10 mph.....est 12.7	
0-20 mph.....est 25.5	
0-30 mph.....est 38.2	
0-40 mph.....est 51.0	
0-50 mph.....est 63.7	
0-60 mph.....est 76.5	
Time to distance	
0-840 ft.....est 38.2	
0-1320 ft (1/4 mile).....47.9 @ 37.6 mph	



Braking	
Minimum stopping distance	From 60 mph.....varies according to conditions
Control.....excellent	Brake feel.....very good
Overall brake rating.....very good	
<i>Subjective ratings consist of excellent, very good, good, average, poor; na means information is not available.</i>	
Handling	
Lateral acceleration.....yes	Balance.....corners on rails
Speed through 700-ft slalom.....sluggish	Balance.....unsettling
Lateral seat support.....none	

Interior Noise	
Idle in neutral.....yes	Maximum.....wear earplugs
Fuel Economy	
Normal driving.....100-gal. water/mile, 100-lb. coal/mile	
10 mph loaded.....480-gal. water/mile, 800-lb. coal/mile	
Cruise range normal.....90 miles water, 300 miles coal	
Cruise range 10 mph loaded.....19 miles water, 38 miles coal	
Fuel capacity.....9000 gal. water, 15 tons coal	

Test Notes:

Tug the whistle cord, push and pull several levers and release the brakes. Grab hold of the baseball-bat-size throttle and pull. The Baldwin moves ahead with ease. There can be wheelspin if the 600-degree-superheated steam is released

too quickly into the cylinders. • During braking, just make sure you have plenty of track in front. • Around the skidpad, the 212,000-lb. locomotive will corner as fast as the turntable at the wheelhouse.

Test Conditions:

Temperature	Humidity	Elevation	Wind
90° F	100%	200 ft	In your face