UP BIG BOY 4-8-8-4

The Union Pacific 4-8-8-4 "Big Boy" are considered to be the longest and heaviest locomotives built by Alco. They were designed in 1941 and 1944 to conquer the grade between Ogden and Evanston through the Wasatch Mountains.

This design utilized lateral motion devices, and were able to run as fast as 80 miles per hour, but their best horsepower was at 30 miles per hour. The engines had 23 3/4" x 32" cylinders, 68" drivers, used 300 pounds of boiler pressure and weighed 772,000 pounds. Twenty engines were originally ordered in 1941. These were engine numbers 4000 to 4019. Five more engines were eventually ordered in 1944. These were numbered 4020 to 4024.

Around September 10, 1941 the 4000 was tested on the grade that it had been built to beat. It was hauling a 3800 ton train and made the 65 mile plus trip into Wahsatch and on to Evanston ahead of the photographer.

Fittings were added, including twin stacks hidden behind a sheet-metal fence and equipped with side-folding smoke hoods. Feedwater was heated with an Elesco exhaust injector combined with a centrifugal pump. The engines were used as coal-burners. Big Boys first used air cooling piping supported lengthwise on each side of the pilot deck and later used Wilson after-cooled radiators as on the Challenger series.

The Big Boys were the King of steam for eighteen years, but they might not have ever been built, for while the 4000 series were in the design stage, deisels were being tested experimentally throughtout the nation.

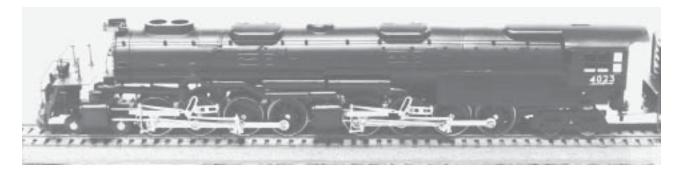
PROTOTYPE SPECIFICATIONS		MODEL SPECIFICATIONS		ENGINE OVERHANG	
Builder	Alco	Drivers	69" Box Pok	(From inside of Outside	de Rail)
Tractive Force	135,375 pounds	Gear Ratio	31 - 1	18"Radius Curve	1.688"
Drivers	68"	Power	DC-71 motor	20"Radius Curve	1.437"
Total Engine Weight	772,000 pounds	Boiler length	12-1/4"	22"Radius Curve	1.375"
Total Engine wheel base	72' 5-1/2"	Engine height	2-1/4"	24"Radius Curve	1.250"
Steam Pressure	300 pounds	Overall length		NOTE: If curves are g	given the
Height	16' 2-1/2"	w/ centipede tender	18-5/8"	clearance as outlined	in
Length	85' 9-1/2"			NMRA standards, no	difficulty
				with overhang will be	encoun-
				tered.	

BOWSER UP BIG BOY - KITS AND ACCESSORIES

UP Big Boy, Kit

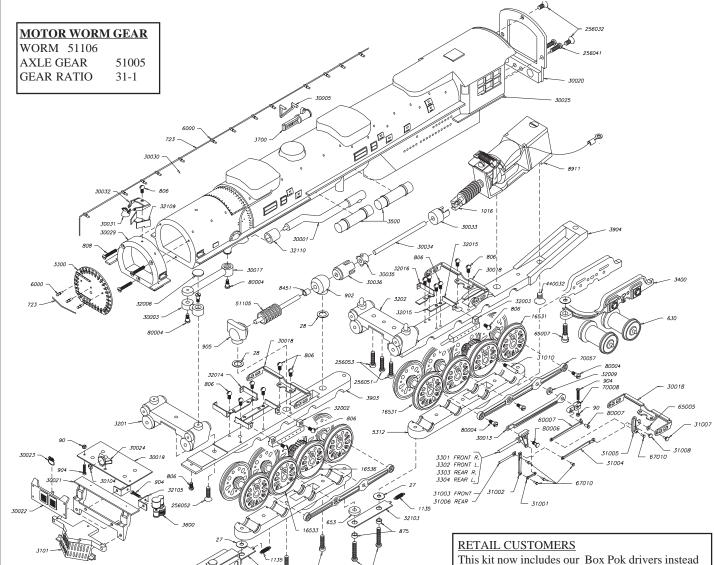
DISCONTINUED AT THIS TIME

		#500355	Assembled Valve Gear
#100375	UP Big Boy Superdetail, Kit	#3020	Boiler Weight (FILE SOLDER JOINT TO FIT)
#100321	Painted Engineer and Fireman	#150681	Electrical Pickup Kit for MONOGRAM or
	(INCLUDED IN SUPER DETAIL KIT)		JMC Models Tender From Their Big Boy

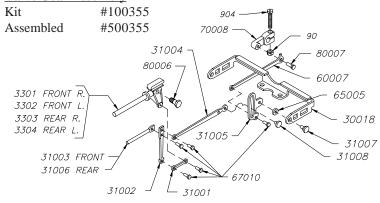


UP BIG BOY 4-8-8-4, PHOTO OF BOWSER MODEL

UP BIG BOY 4-8-8-4



Valve Gear Assembly



This kit now includes our Box Pok drivers instead of the Scullen drivers originally furnished with the kit. We will replace your Scullen drivers with our Box Pok drivers at ONE-HALF total list per set (plus shipping charges and tax where necessary).

REPLACEMENT DRIVERS

Box Pok

16531 Light drivers w/ bearing #15011

16533 Medium drivers w/ bearing #15011

16536 Heavy drivers w/ gear #51005 and bearing #15011

AVAILABLE DIRECT FROM THE MANUFACTURER ONLY

Blind Drivers

#16537 Medium Box Pox with bearings

#16538 Heavy Box Pox with bearings and gear

Pilot coupler:

Use KD® #5 coupler and pocket. Remove top center slat and 2 on each side. File smooth so the pocket fits. Hold pocket in place and locate and drill (#50) hole in pilot. Tap 2-56. Mount coupler and pocket with a 2-56 screw.

UP BIG BOY 4-8-8-4

SUPER DETAIL KIT #100375 PART# QTY DISCRIPTION 13-268 723 .020 WIRE PIPING 744 .032 WIRE PIPING 0-80 X 5/16 HEX HD 805 2 PCS 7550 6 PCS MARKER LIGHT JEWEL 6000 4 PCS HANDRAIL STANTIONS FEED WATER PUMP 13-274 90365 1 PC. 90393 90366 1 PC. COLD WATER PUMP 90367 ROUND JUNCTION BOX 4 PCS 90369 1 PC. RADIATOR 1 PC. 90370 LEFT 'L" BRACKET RIGHT "L" BRACKET 90371 1 PC. 90374 2 PCS PIPE UNIONS 90392 SQUARE PIPE UNIONS 90375 2 PCS 90377 1 PC. PIPE UNION PIPE HANGER 90378 2 PCS. 90380 LARGE STEAM PIPE 2 PCS. 90385 SMALL STEAM ELBOW 90383 2 PCS 90389 90385 2 PCS. GLOBE VALVE 90389 ROUND PIPE UNIONS TRAILING TRUCK BEAM 90391 1 PC. • 90392 GENERATOR 1 PC. 90393 1 PC LARGE Rnd TURRET COVER 90394 1 PC. SMALL Rnd TURRET COVER 90395 1 PC. PILOT DECK PR. PILOT DECK STEPS 90396 1 PC. PILOT DECK RADIATOR 90397 2 PCS 90398 2 PCS. LUBRICATOR 13-266 90399 1 PC. PILOT PR. PILOT STEPS 90400 2 PCS HEADLIGHT 13–266 190–247 -90401 1 PC. LONG STEAM PIPE 90402 2 PCS. 90403 2 PCS STEAM PIPE CAP NATHAN INJECTORS 90496 2PCS. 100321 2 PCS. ENGINEER & FIREMAN 13-265 12 PCS PRIME CYLINDER COCK • 13-266 8 PCS. DOME COVERS 90-268 13-267 CABBRACE 13-276 90389 13-268 2 PCS. WALK STIRRUP STEPS INSPECTION PLUGS 13-269 14 PCS. FOAM SPREADER 13-270 2 PCS. 13-271 21 PCS. WASH OUT PLUGS 13-272 2 PCS. VALVE WHEEL 13-274 1 PC. BELL & NUMBER BOARD WHISTLE & VALVE 13-276 1 PC. 13-278 1 PC. POWER REVERSE LUBRICATOR W/BRACKET 13-283 4 PCS. 13-385 4 PCS. ASH PANS 190-247 5 PCS. POP VALVES NATHAN INJECTOR 190-262 2 PCS 190-266 1 PC. RADIATOR SHEID 190-268 1 PC. FRONT END THROTTLE KIT 190-293 1 PC. STARTER VALVE 190-312 1 PC. PR. MARKER LIGHT 90394 13-2/4 190-312 90401 .032 WIRE 190–266 90369 90395 90400 6000 90399