# **USRA MOUNTAIN 4-8-2**

The light Mountains were the last of the USRA line to be completed. In May of 1919 they were delivered by Alco, with Baldwin soon following suit.

Many of the parts were interchangeable with other USRA engines. Cylinders were 27" x 30", the drivers were 69" in diameter, boiler pressure was 200 pounds, the locomotive weighed 327,000 pounds, and these engines had a tractive force of 53,900 pounds. The running gear for the USRA light is the same as on the heavy Mountain except for the weight of springs and certain other small parts.

Copies of the light model began to be produced in 1920 by Alco. Feedwater heaters were now added to the original version, along with copies of the original. Southern valve gears, Vanderbilt tenders, small compressors on the engine (an unusual sight on a large engine), front-end throttle, exhaust steam injector, and a second sandbox were all new features that would be found in later years on copies of the USRA 4-8-2 Light.

There were only 52 USRA Heavy Mountains built. Alco and Baldwin produced these locomotives for C&O, N&W, and FEC from 1918 to 1926. These engines had cylinders that were 28" x 32". Using 69"drivers, the same wheel spacing as the light Mountain, 200 pounds of pressure, and weighing 327,000 pounds a tractive force of 58,000 pounds was exerted. The boilers used on this model were the same as those used on the USRA 2-10-2, but since its drivers were larger the boiler was mounted 5" higher on the USRA Mountain.

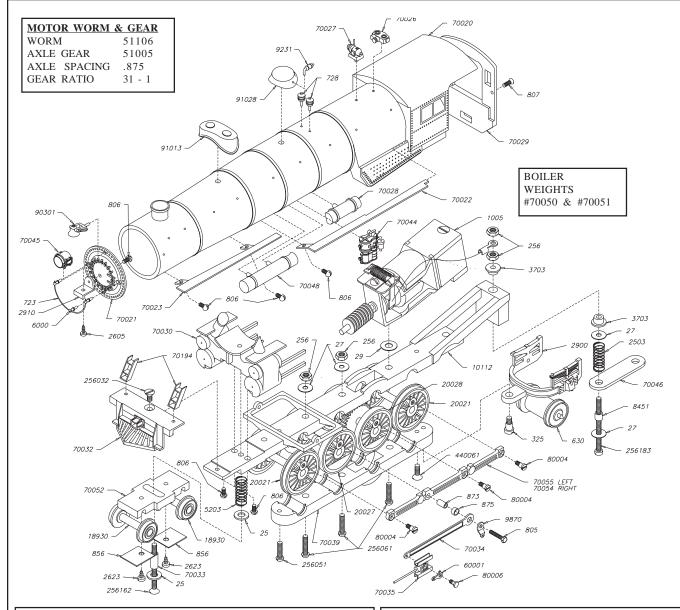
Some additions to later versions of the heavy Mountain included: a pump, low headlight, cantilever bell hanger arrangement, Worthington SA feedwater heater, compressors, a long tender, front-end throttle, footholds, and some FEC's were installed with Elesco heaters.

<u>PROTOTYPE SPECIFICATIONS</u>			MODELSPECIFICATIONS	
Cylinders	<u>Light</u> 27" x 30"	<u>Heavy</u> 28" x 32"	Length with Tender Height	12 1/4" 2 1/8"
G.	200 11	200 11	Weight	2 lbs 5 oz.
Steam pressure	200 lbs.	200 lbs.	Minimum radius	18"
Tractive force	53,900 lbs.	58,000 lbs.	Power	Bowser DC-71
Weight of engine			Drivers	69"
in working order	327,000 lbs.	327,000 lbs.	Directs	0)

# BOWSER USRA MOUNTAIN - KITS AND ACCESSORIES

	ACCESSURIES
#100400	USRA Mountain w/ Tender, Kit
#100410	Superdetail Kit Superdetail Kit
#100416	Smoke Unit Kit
#100412	Painted Engineer & Fireman
	w/ bulkhead & floor not in
#100410	
#500405	Assembled valve gear
	70022
	70036 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
805 —	
9840	806
805 —	70048
60005	9870
60002	CONO.7
60001	60007 70050
	700.76
	70036 60005 — 9840
	60005 —
	67010 — 60001

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## **Smoke Unit Kit For Bowser & Penn Line Locos**

Kit includes a Model Power Smoke Unit, Instructions and the necessary mounting hardware. Smoke fluid not included.

#100416 For USRA Mountian. Requires drilling smoke stack to accept the smoke unit.

#### **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.

#### REPLACEMENT BOX POK DRIVERS

16531 69" LIGHT w/ BEARINGS, FLANGED

16534 69" MEDIUM w/ GEAR, FLANGED

16535 69" HEAVY w/ BEARINGS, FLANGED

### FLANGED DRIVERS

20024 69" HEAVY SPOKE

20026 69" MEDIUM SPOKE

## Marker Light Jewels:

Rule of thumb: Green to front, amber to side and red to rear.

### Pilot Coupler:

Use Kadee® #6 coupler and pocket. File cast on coupler pocket flush with pilot beam. Mount pilot to frame. Place the #6 coupler and pocket on screw holding pilot to frame and secure with a 2-56 nut.

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