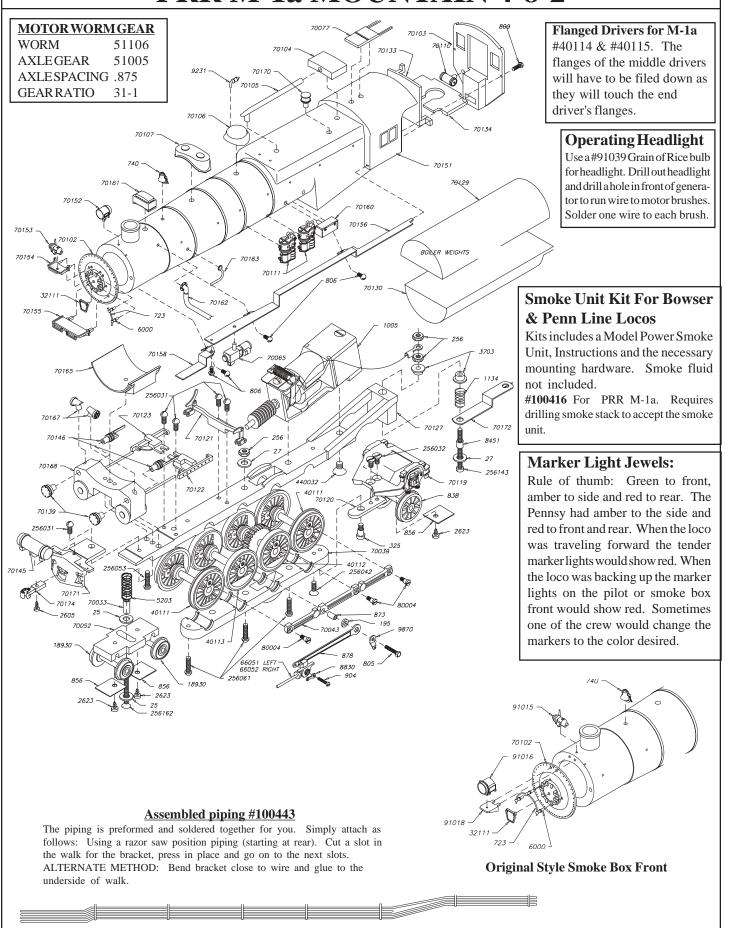
## PRR M-1a MOUNTAIN 4-8-2

In 1930, 100 engines of class M-1a were developed. They were built by Juniata, Baldwin, and Lima. They were slightly heavier than the M-1's, and had Worthington feedwater heaters with the mixing chamber back of the stack. Two compressors were mounted on the left side. Ten M-1a's, along with twenty M-1's were used for passenger service.

In 1946, several M-1a locomotives were upgraded and re-classified M-1b. Some important changes made to the locomotive included a twenty pound increase in steam pressure to 270 pounds and installation of circulators in fireboxes, which increased heating surface by thirty-five square feet. These changes occurred after the locomotives were sixteen or more years old; consequently, their final years were spent hauling the heaviest loads of their lifetimes.

PROTOTYPE SPECIFICATIONS Cylinders C
Firebox 79-7/8" x 125-15/16" Height #100450 PRR M-1a Mountain  Steam pressure 250 lbs. Weight 2 lbs. 10 oz.  Tractive force 64,550 lbs. Minimum radius 22" Weight of engine in working order 390,000 lbs. Drivers 72"  Weight of engine on front trucks 59,000 lbs. Weight 6 engine on trailing trucks 60,000 lbs.  To make Eight Wheel Tender: buy #7006 Trucks and screw onto tender.  Ength with Tender 15-1/4" #100450 PRR M-1a Mountain  w/ Tender, Kit #100416 Smoke Unit Kit #100460 M-1a Superdetail Kit #100460 Assembled Piping, not in #100460 #100443 Assembled Valve gear,
Steam pressure 250 lbs. Weight 2 lbs. 10 oz. Tractive force 64,550 lbs. Minimum radius 22" Weight of engine in working order 390,000 lbs. Drivers 72" Weight of engine on front trucks Weight of engine on trailing trucks 60,000 lbs. Weight 2 lbs. 10 oz. Minimum radius 22" Power Bowser DC-71 #100416 Smoke Unit Kit #100460 M-1a Superdetail Kit #100442 Painted Engineer & Fireman, not in #100460 #100443 Assembled Piping, not in #100460 #500435 Assembled valve gear,
Tractive force Weight of engine in working order Weight of engine on drive wheels Weight of engine on front trucks Weight of engine on trailing trucks  Winimum radius 22" Power Bowser DC-71 Drivers 72" #100416 #100460 #100460  #100442 Painted Engineer & Fireman, not in #100460  #100443 Assembled Piping, not in #100460  #500435 Assembled valve gear,
Weight of engine in working order 390,000 lbs. Drivers 72" #100440 M-1a Superdetail Kit  Weight of engine on drive wheels 271,000 lbs. Color Brunswick Green  Weight of engine on front trucks Weight of engine on trailing trucks 60,000 lbs. To make Eight Wheel Tender: buy #7006 Trucks and screw on trailing trucks 60,000 lbs. onto tender. #500435 Assembled Valve gear,
Weight of engine in working order 390,000 lbs. Drivers 72" #100460 M-1a Superdetail Kit #100442 Painted Engineer & Fireman, not in #100460 Weight of engine on front trucks Weight of engine on trailing trucks 60,000 lbs. To make Eight Wheel Tender: buy #7006 Trucks and screw ontrailing trucks 60,000 lbs. onto tender. #500435 Assembled valve gear,
Weight of engine on drive wheels 271,000 lbs. Color Brunswick Green weight of engine on front trucks Weight of engine on trailing trucks of trailing trucks of the design
on drive wheels 271,000 lbs. Color Brunswick Green not in #100460  Weight of engine on front trucks Weight of engine on trailing trucks 60,000 lbs. To make Eight Wheel Tender: buy #7006 Trucks and screw ontrailing trucks 60,000 lbs. onto tender. #500435 Assembled valve gear,
Weight of engine on front trucks 59,000 lbs. To make Eight Wheel Tender: buy #7006 Trucks and screw on trailing trucks 60,000 lbs. To make Eight Wheel Tender: buy #7006 Trucks and screw onto tender. #500435 Assembled Piping, not in #100460 Assembled valve gear,
on front trucks 59,000 lbs. To make Eight Wheel Tender: Weight of engine on trailing trucks 60,000 lbs. To make Eight Wheel Tender: buy #7006 Trucks and screw onto tender.  To make Eight Wheel Tender: buy #7006 Trucks and screw onto tender.  #500435 Assembled valve gear,
Weight of engine buy #7006 Trucks and screw on trailing trucks 60,000 lbs. buy #7006 Trucks and screw onto tender. #500435 Assembled valve gear,
on trailing trucks 60,000 lbs. onto tender. #500435 Assembled valve gear,
Weight of tender 378,360 lbs. not in #100460
VALVEGEAR ASSEMBLY:
KIT #100435
ASSEMBLED #500435
9 / 723
Assembled valve gear does not include
crossheads, crosshead guides or cylinder parts
cylinaer
70146
70157
806
70123
70164
70122 8830
70146
70124 878
9810
67010 70121
878
8820 8830 INTO DRIVER
904
66051
70123 - 873
70126 - \ \ 805 9870

## PRR M-1a MOUNTAIN 4-8-2



## PRR M-1a MOUNTAIN 4-8-2

