

Alex Belida, MMR June 10, 2023

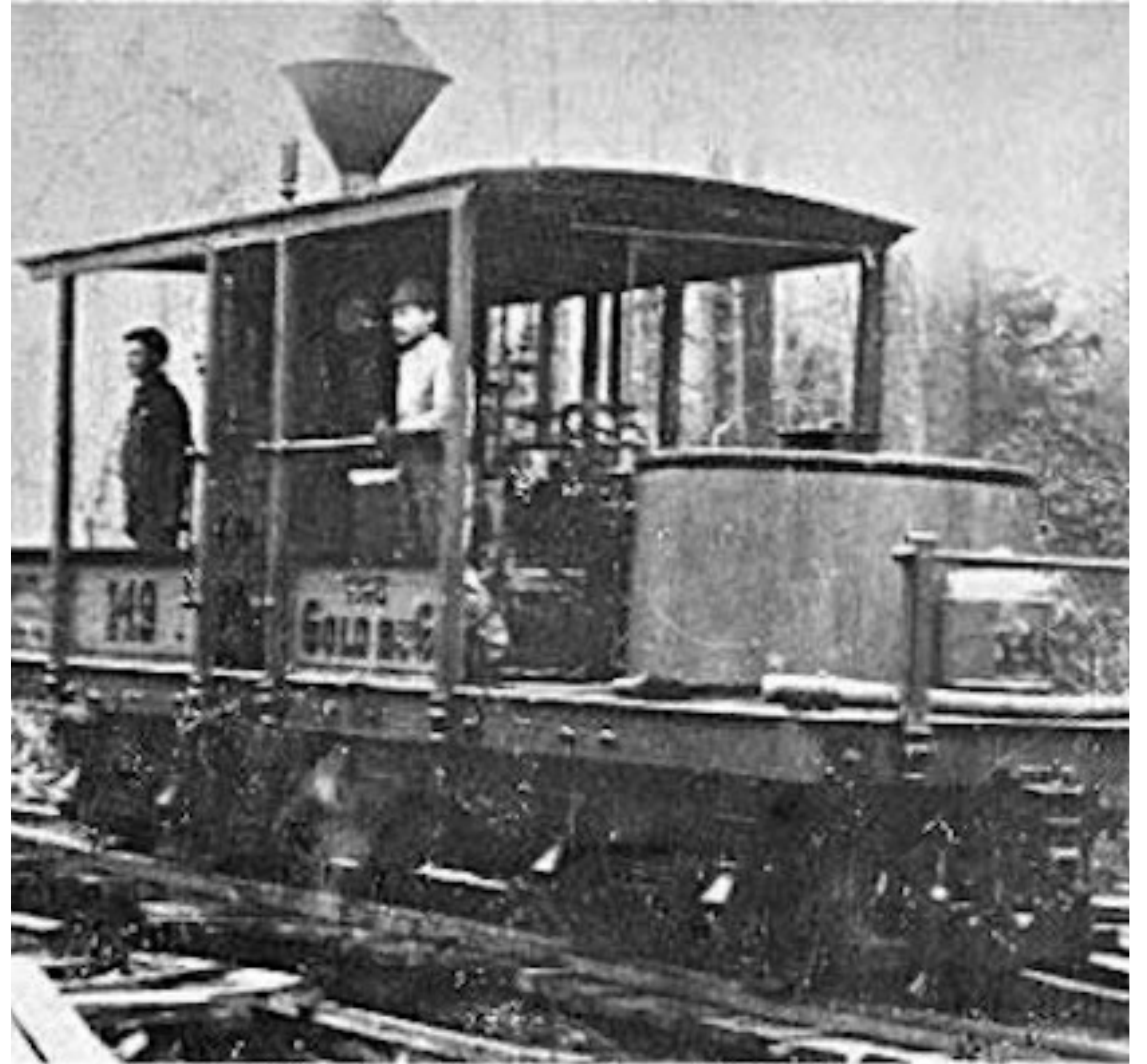
Vertical Boiler Engine Project

Motive Power AP Scratchbuild

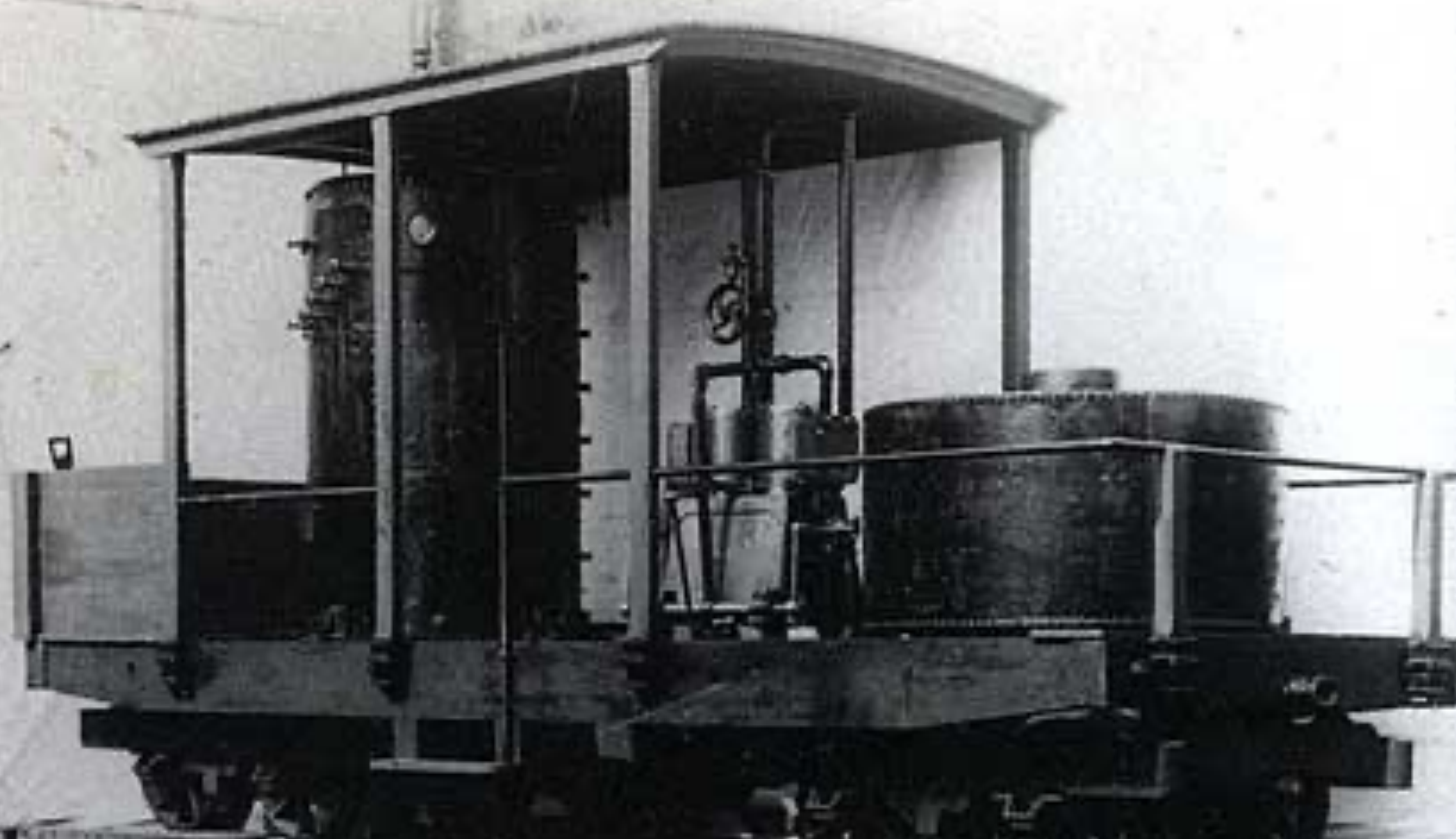


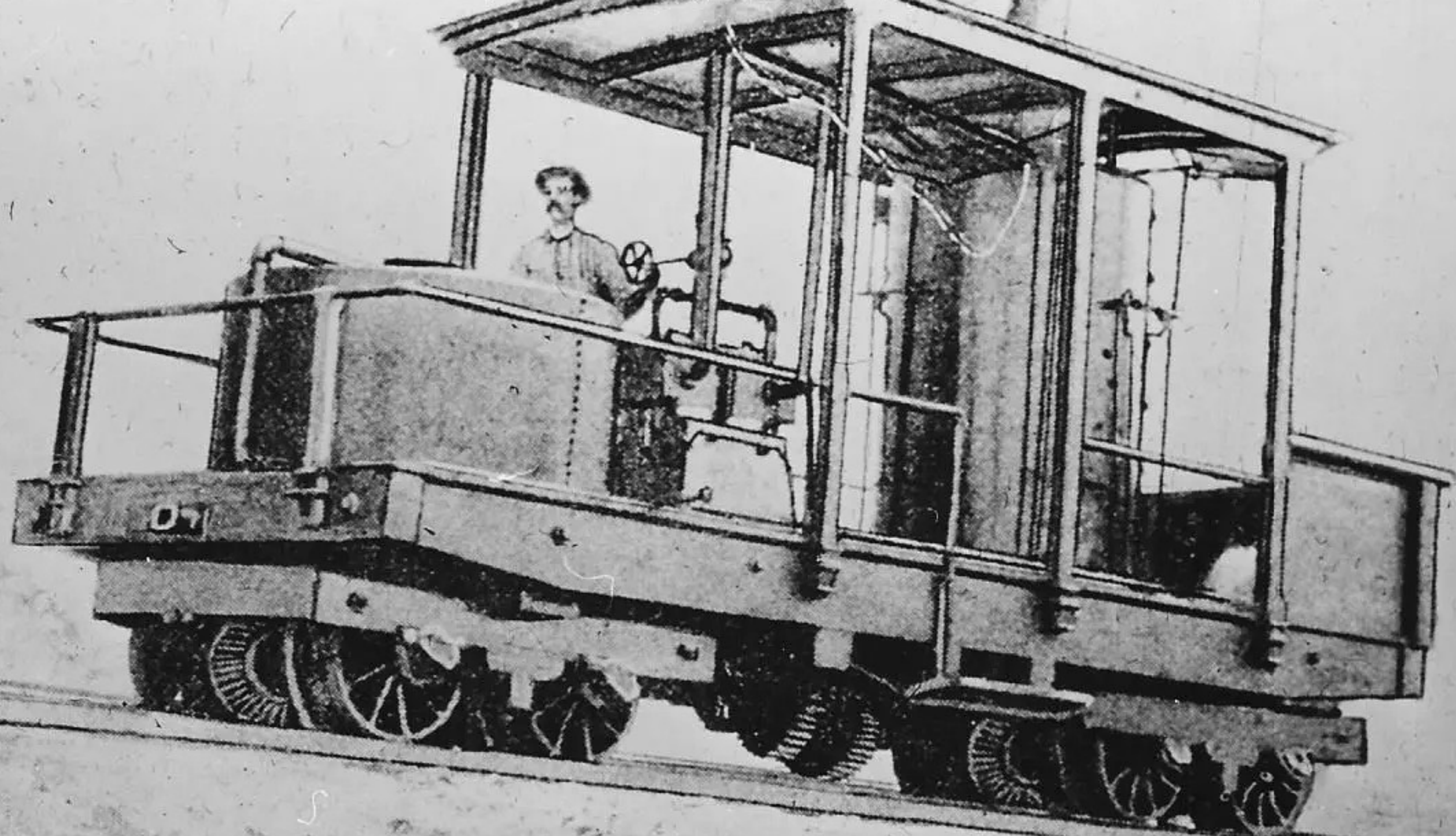
Class “A” Vertical-Boiler Logging Locomotive.
**This 12-ton locomotive with vertical boiler was
manufactured by Climax around 1889.**

Many Prototypes
This one was called “The Gold Bug”

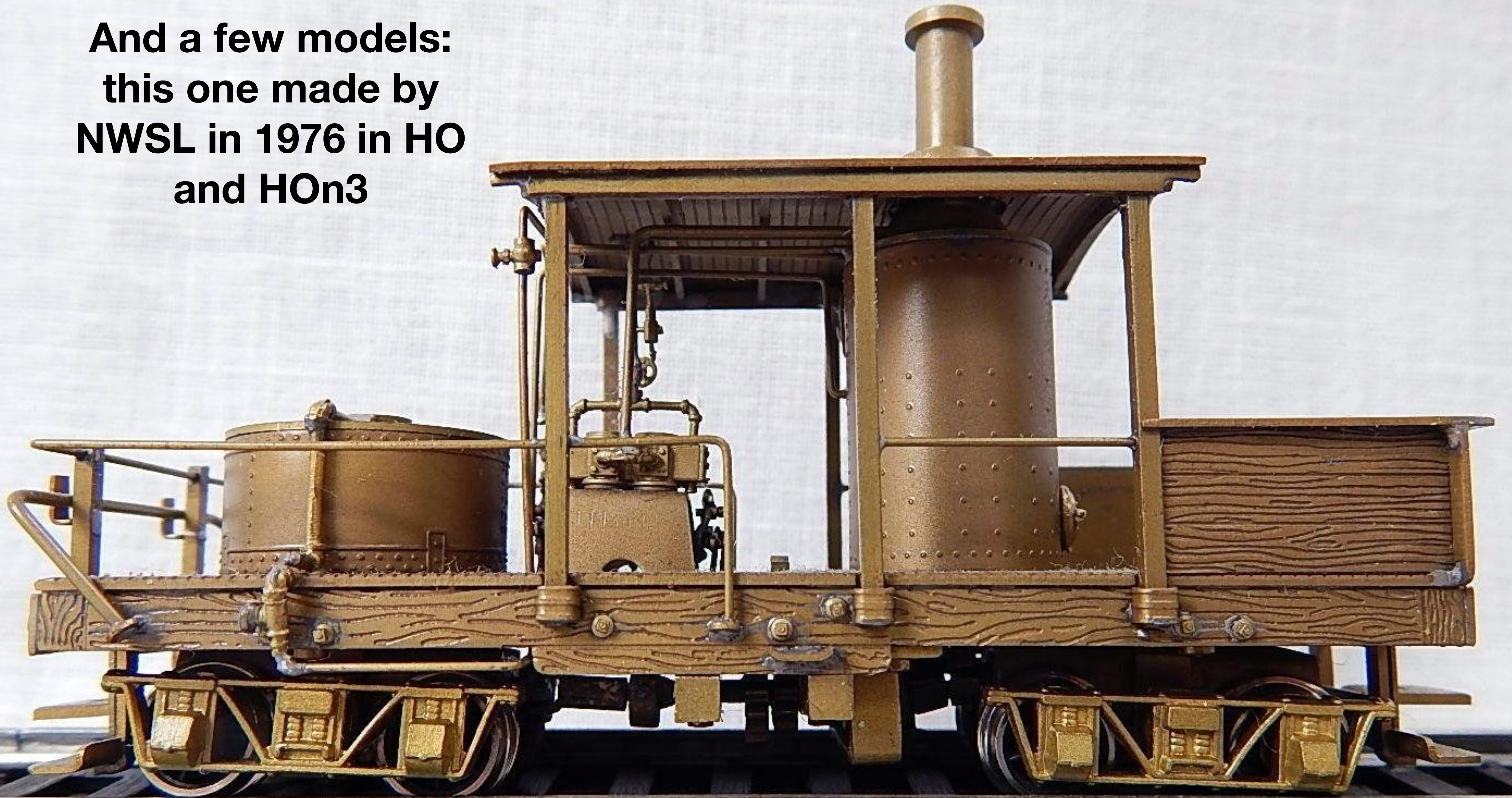


Walter Casler Collection

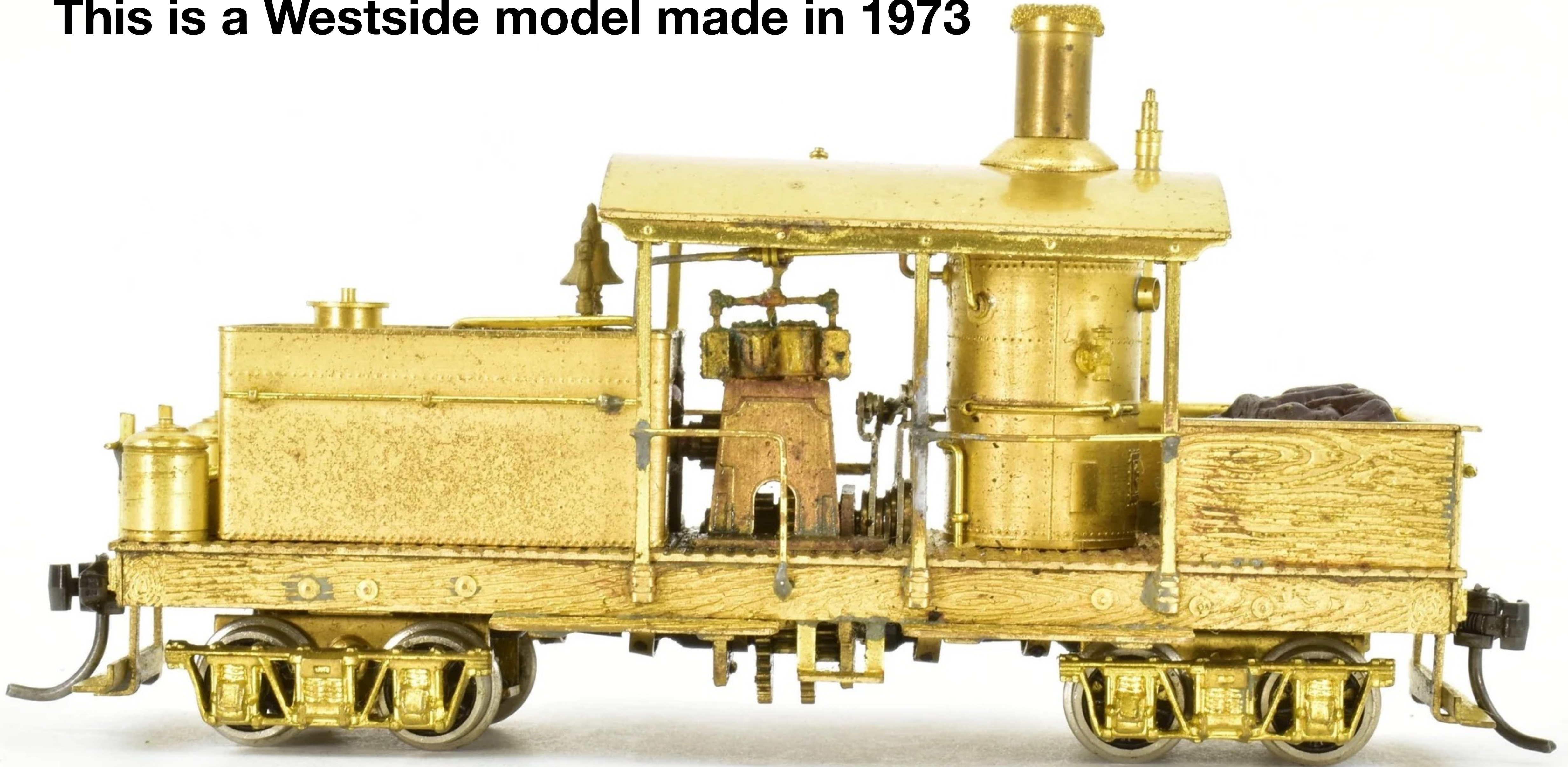




**And a few models:
this one made by
NWSL in 1976 in HO
and HO_{n3}**



This is a Westside model made in 1973



**Both are long out of production
and rarely on the market**

**So modelers tend to make their
own...**









**This was a kit made
by Mark Rollins some
time ago**

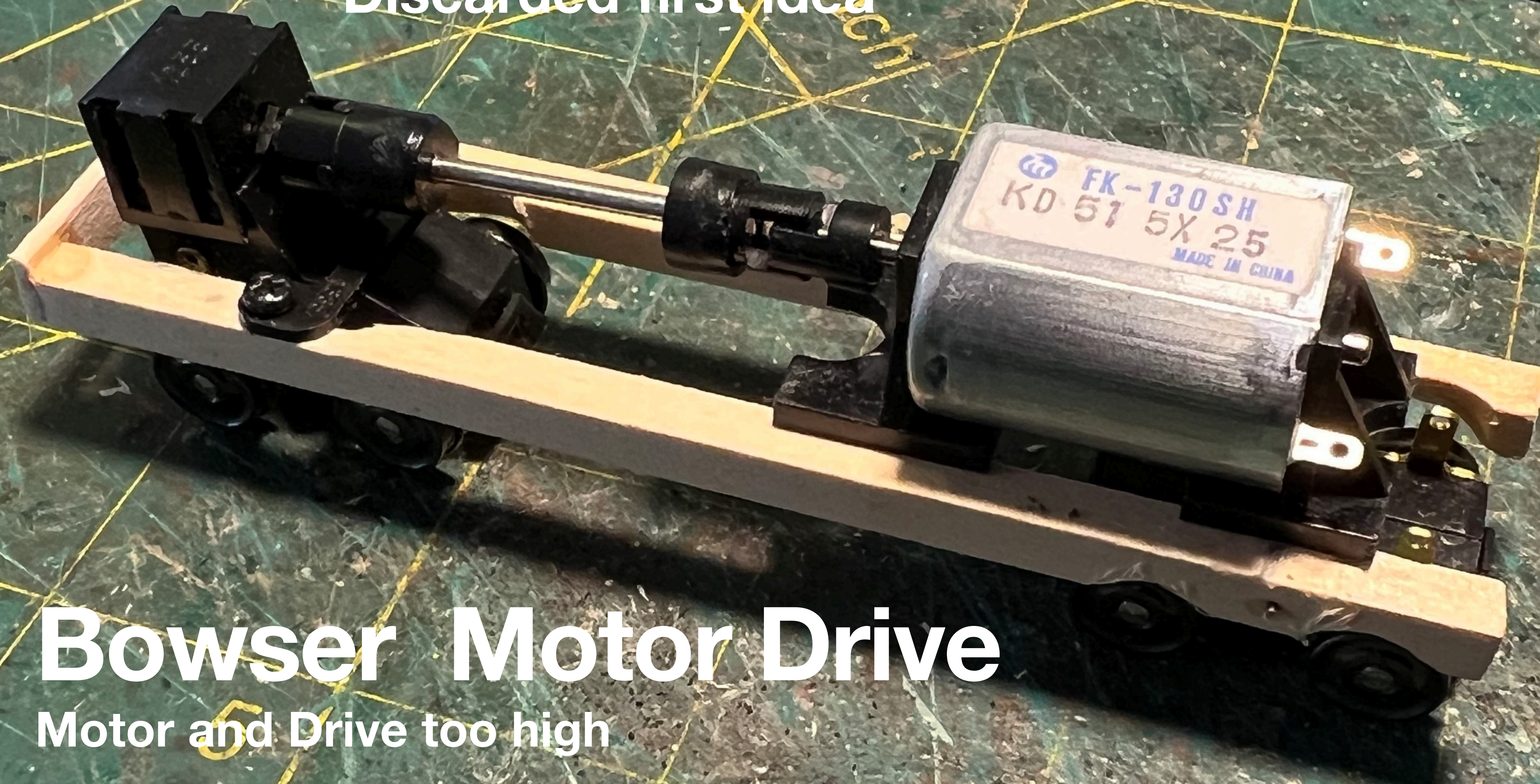




This one is a 3D printed kit made by Jelly Models of Japan requiring a Kato power chassis

So how did I approach this?

Discarded first idea



Bowser Motor Drive

Motor and Drive too high

Stanton Powered Drive and dummy wheel set

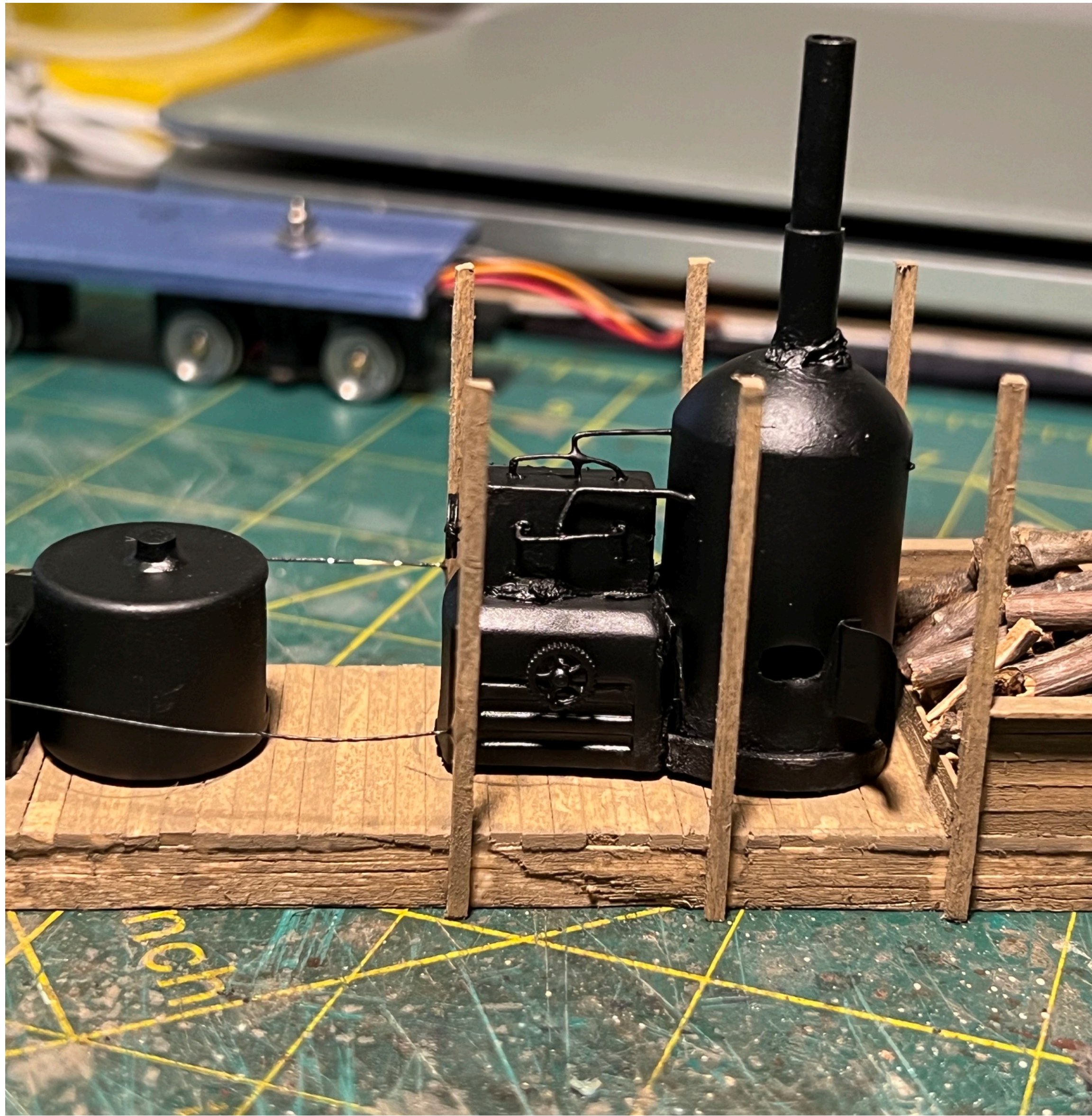
3D printed frame

Cigar tube, scrap plastic, silica capsule from pills





**But I dumped
the 3D and went with plain
stripwood**

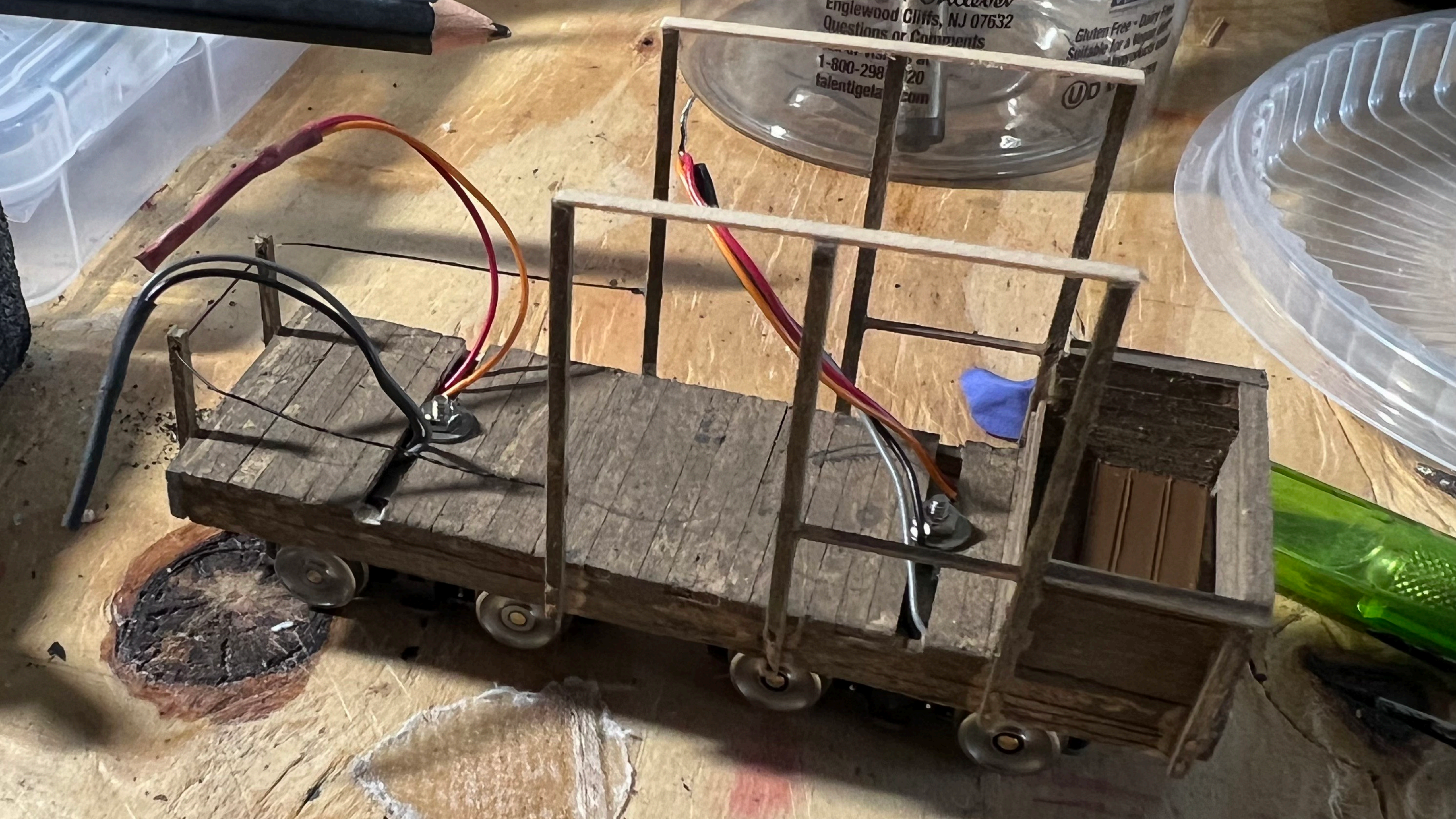


Lead weights

- 1/32 sheet lead from RotoMetals
- one under entire length of frame, scribed
- smaller piece to sit in wood bin







Englewood Cliffs, NJ 07632
Questions or Comments
1-800-298-120
talentgel.com

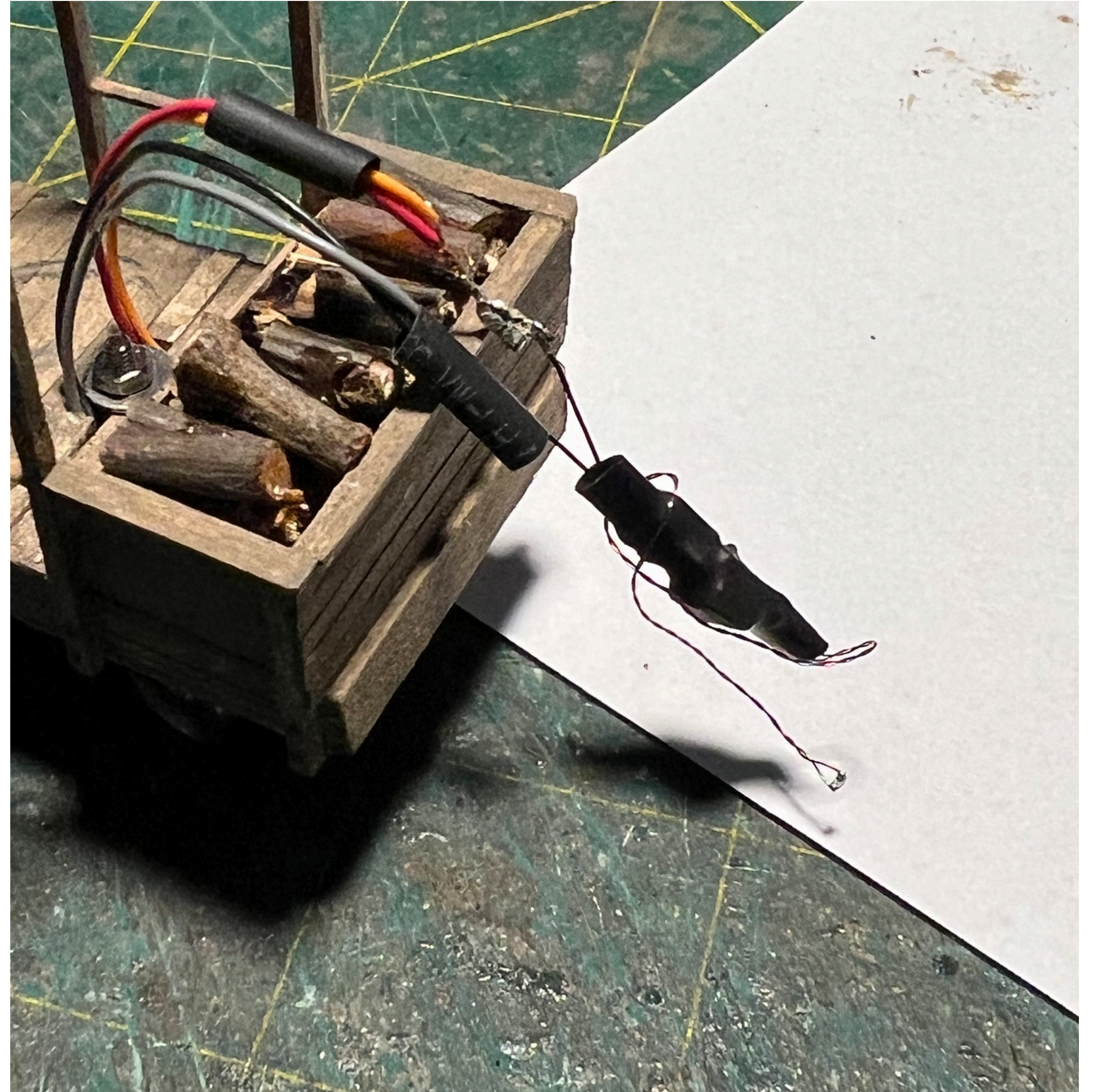
Gluten Free - Dairy Free
Suitable for a Vegetarian Diet
UD

Adding firewood



Adding the flickering red LED to go inside boiler

Evans Designs



Raised Rivet Decals

- from MicroMark



Boiler Details







More details

The smokestack: 2 icing pipes
Sidesteps and whistle

Link-and-Pin coupler plates
Headlight box later removed

**Lots of NBWs and
HBWs**



**Hose and pipes made of
solder**
**Chain hung from
handrail**

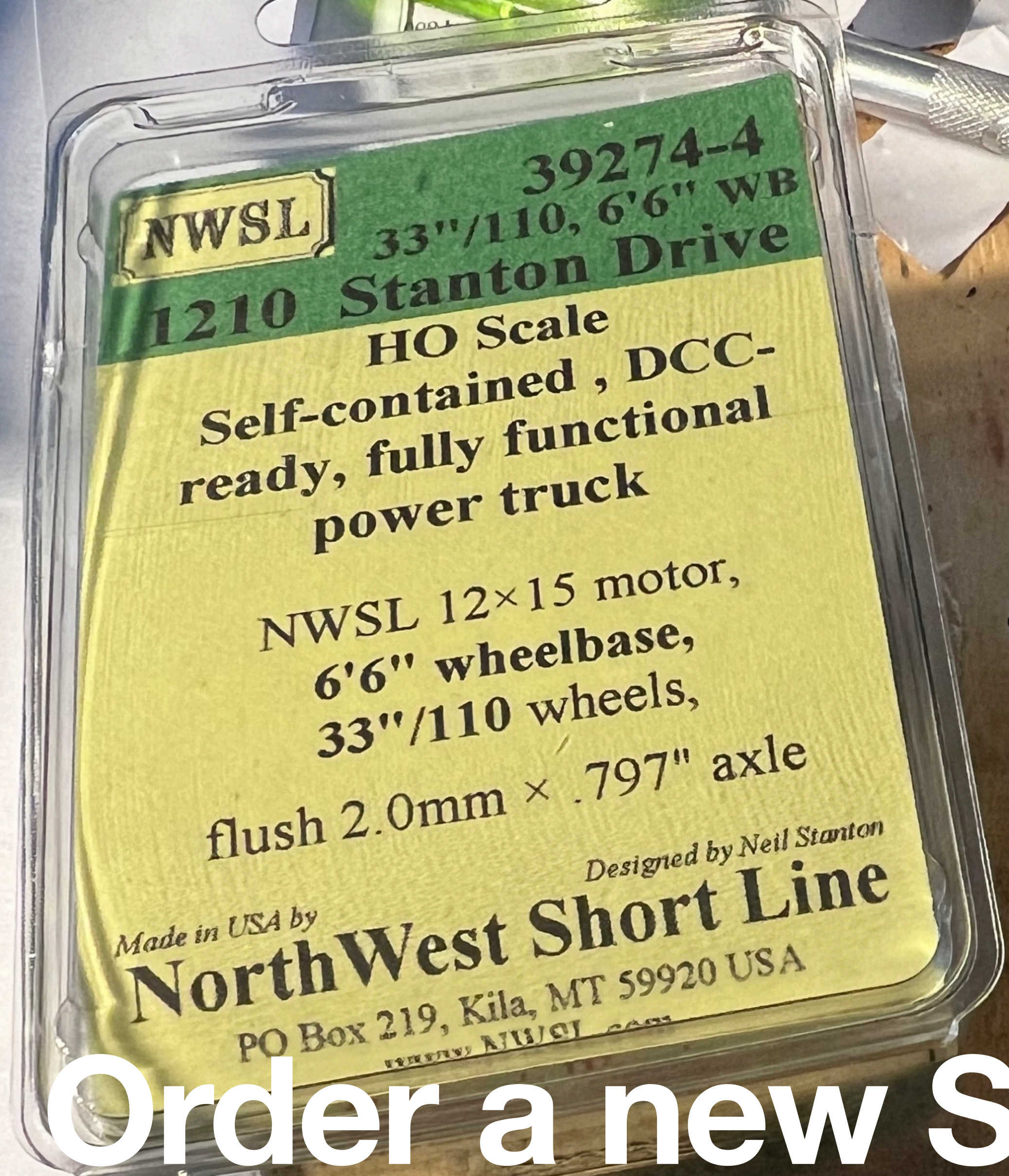


Take It Apart

Disaster

The Powered Drive Failed





NWSL

39274-4

33"/110, 6'6" WB

1210 Stanton Drive

HO Scale

Self-contained, DCC-ready, fully functional power truck

NWSL 12x15 motor,
6'6" wheelbase,
33"/110 wheels,
flush 2.0mm x .797" axle

Designed by Neil Stanton

Made in USA by

North West Short Line

PO Box 219, Kila, MT 59920 USA



**Patience
needed**

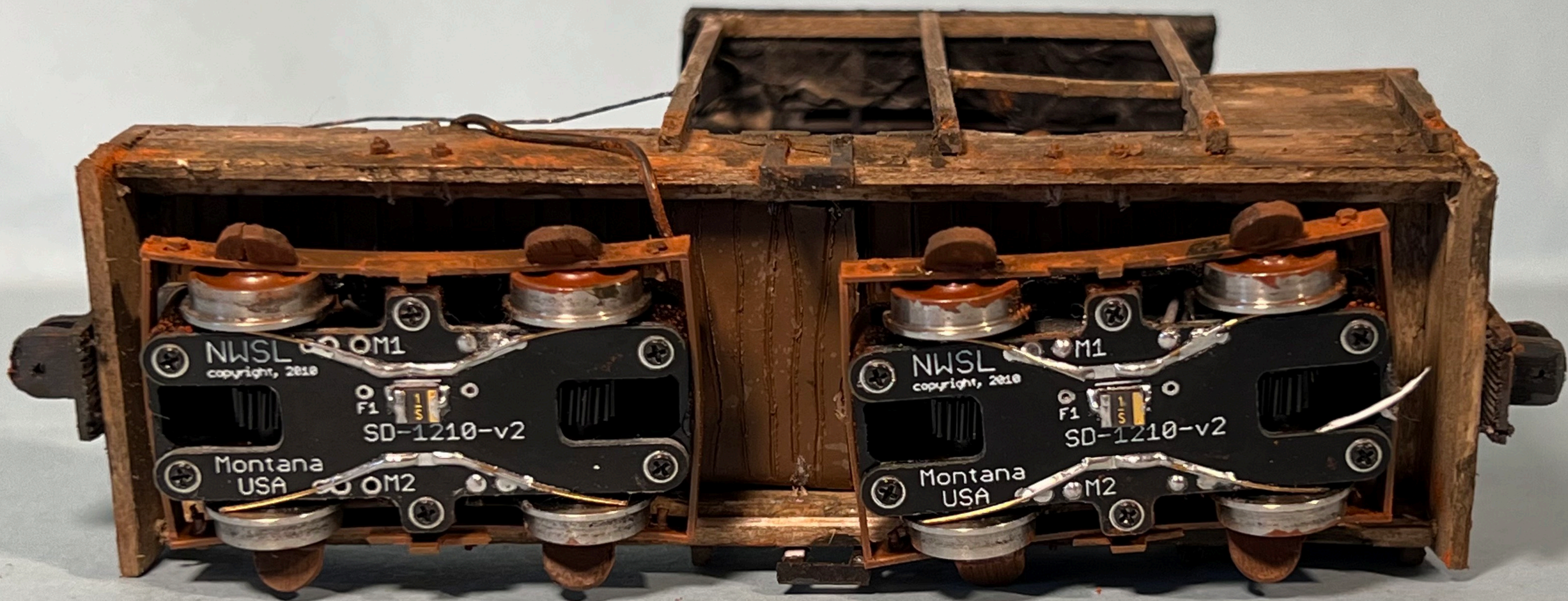
Order a new Stanton Drive

Sit and wait...



90°





NWSL copyright, 2010
OM1

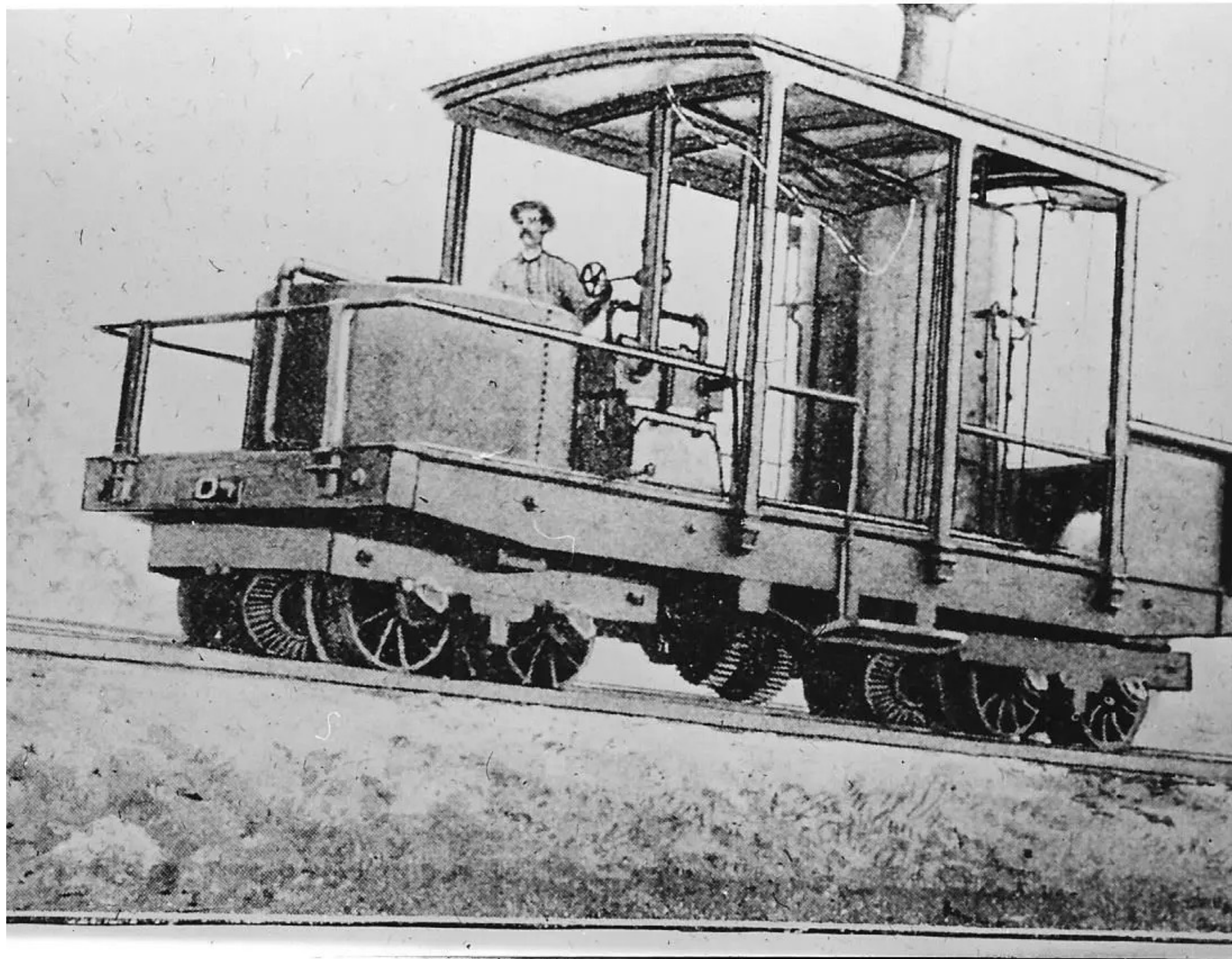
F1
SD-1210-v2

Montana
USA
OM2

NWSL copyright, 2010
M1

F1
SD-1210-v2

Montana
USA
M2



The image on the left is from the Pennsylvania Lumber Museum and I decided to make my model's sideframes like the ones on that vertical boiler engine.



EUREKA





EUREKA

OO TR 31

**As a final touch:
Deer skull from Miniprints**



- **The AP program is a process for building your skills**
- **Motive Power is a challenge but read the requirements: 3 engines, one must be fully scratchbuilt, all must be superdetailed**
- **Kit built or kit-bashed locos are OK if superdetailed**
- **Mine are all simple DC; Upgrading to DCC is the next challenge**
- **You never stop learning**
- **Take your time**

My motive power projects

Four engines

GE 23-ton, Vertical boiler, Conowingo "Boxbug," and "the Critter"





Thanks for listening
I'd be glad to take your questions