TUNING UP YOUR ROLLING STOCK



Paul Deis pdeis@att.net 2019

TUNING UP YOUR ROLLING STOCK

- Couplers
- Trucks
- Wheels
- Weight
- Tools

What is the need?

- Surveyed layout owners. What do you find is the cause of non-operator caused failures
 - 29% misaligned couplers
 - 24% Uncoupling dissimilar couplers
 - 11% other coupler problems
 - 8% trucks too tight or loose
 - 5% Dirty wheels
 - 4% Wheel gauge
 - 4% Wheels not freerolling
 - 1% Car weight

Couplers

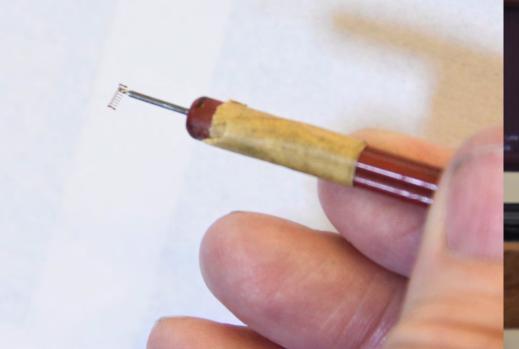
- Standardize
 - Kadee vs Kadee Compatible
 - Plastic Memory
 - Plastic Strength
 - Kadee conversion list
 - Standard Head vs Scale Head





Couplers

- Coupler Height
- Trip Pin
- Knuckle Spring





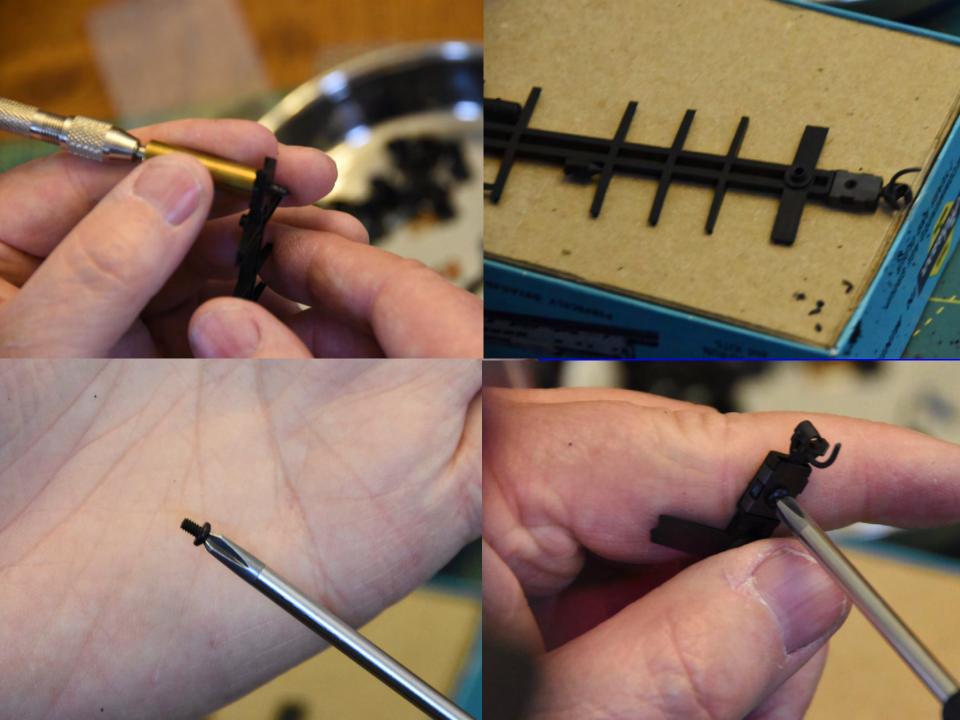
Couplers

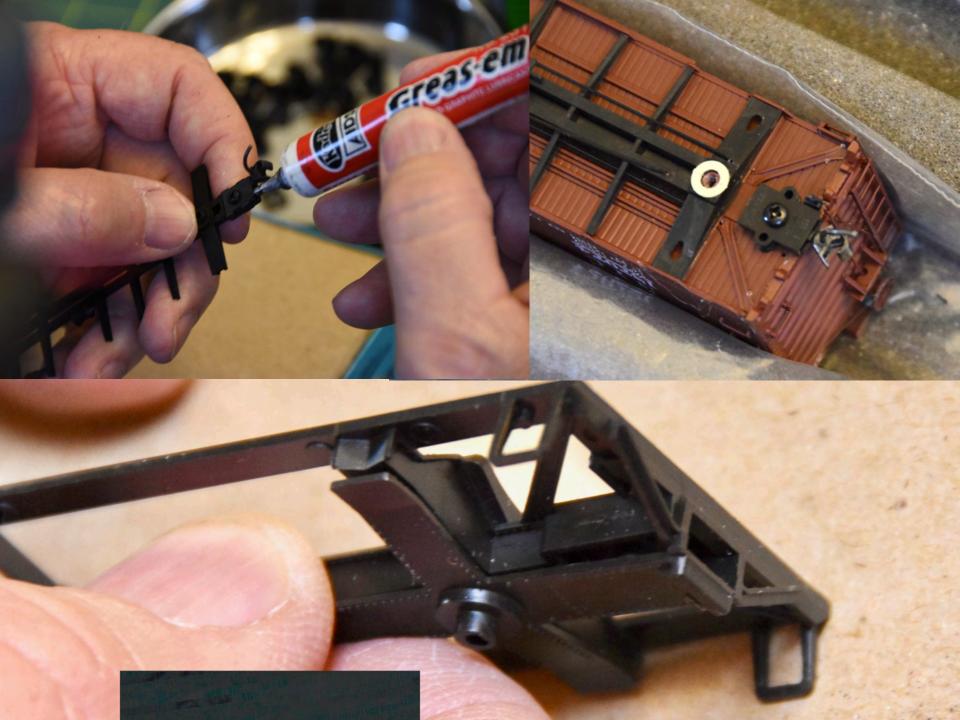
- Installation
 - Mount securely, Do not rely on friction pin or Athearn clips
 - A-Line Drill and Tap tools.















HEM G. ST

Trucks

Sprung or 1 piece



Trucks

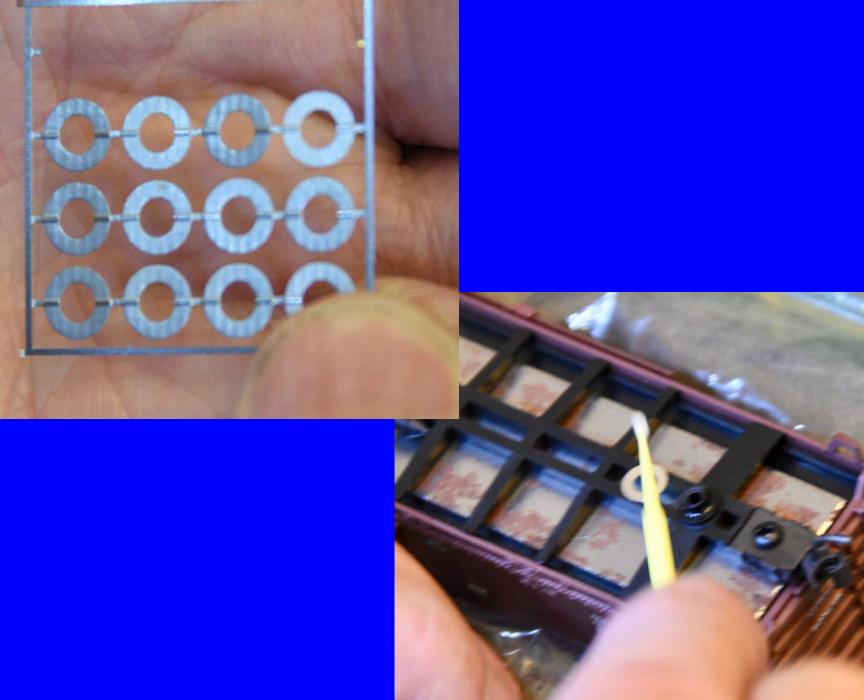
- Inspection
 - Junk
 - Flashing
 - Warped
- Truck Tuner

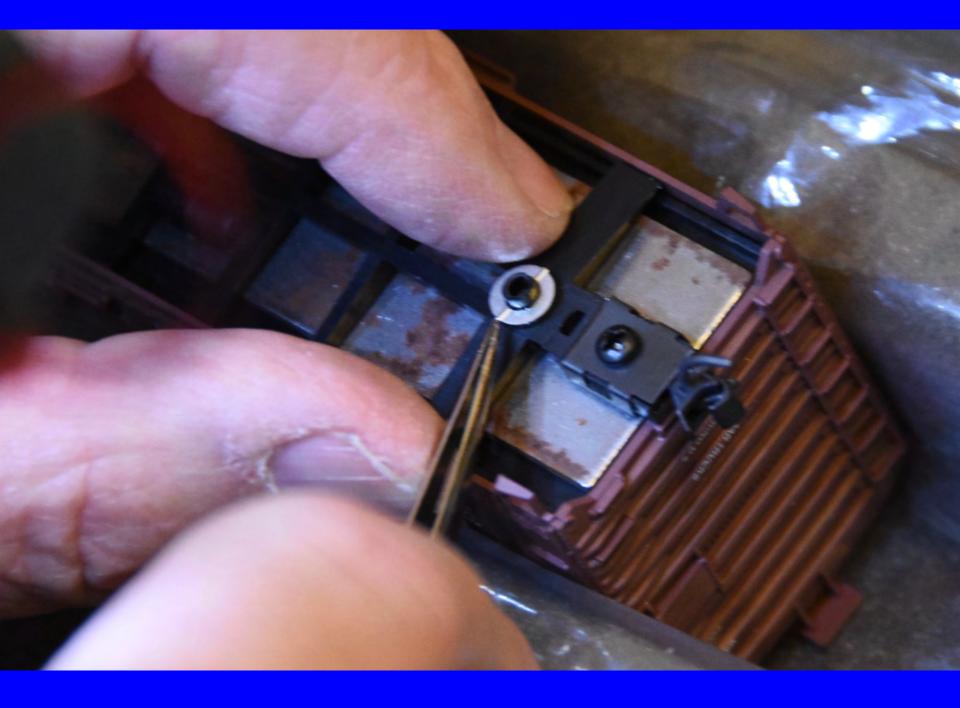




Trucks

- 3 point Mount
 - 1 truck just swivels
 - 1 truck rocks
- Truck Washers for Gimbal Effect
 - 1 truck rocks fore and aft
 - 1 truck rocks side to side
- NO FRICTION PINS SCREWS ONLY









Wheels

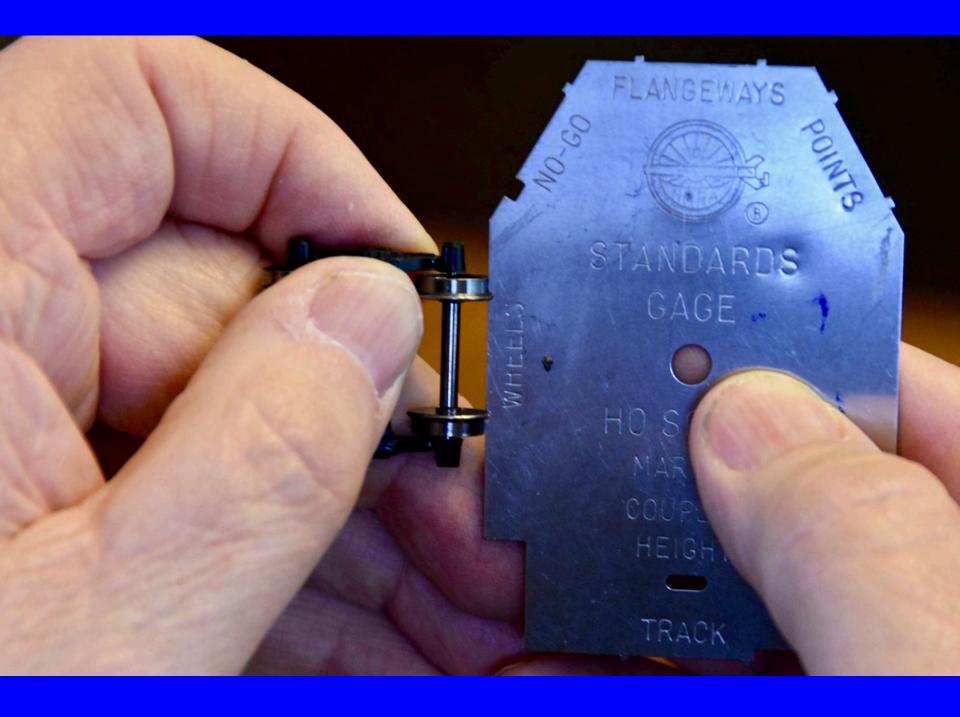
- Plastic
 - Light weight
 - Dirt Build up, hard to clean
- Metal
 - Weight down low
 - Less dirt, easy to clean
 - Resistors for detection circuits





Wheels

- NMRA gauge
- Axel lengths
 - Reboxx wheels
- Test Roll
 - Friction
 - Wobble





Axle Lengths



Car Weight

- Balance
- NMRA Standard ??
- Too Heavy
 - Shorter trains
 - Derailments, String lining
- Too Light
 - Derailments, String lining
 - Train handling



Tools





















THE END

©Paul Deis 2018