

# PROTO-SCALE™ 3-2

## Wheel Set Kits INSTALLATION INSTRUCTIONS

This kit will allow you to convert your Hi-Rail Wheel equipped diesel locomotive power trucks to a Scale Wheeled version (or vice versa). The kit requires locomotives be equipped with Proto-Scale 3-2™ power trucks (sold with select Premier 2006 and later models only).

Each kit contains enough wheel sets for (2) power trucks. Scale Wheels are polished, turned metal with scale treads and flange heights. Hi-rail Wheels are powdered metal with traditional O Gauge wheel treads and flange heights. Premounted on metal axles with one insulated side for use on 2-rail and 3-rail O Scale track systems. The kit can be used on both powered and non-powered diesels equipped with Proto-Scale 3-2 trucks.



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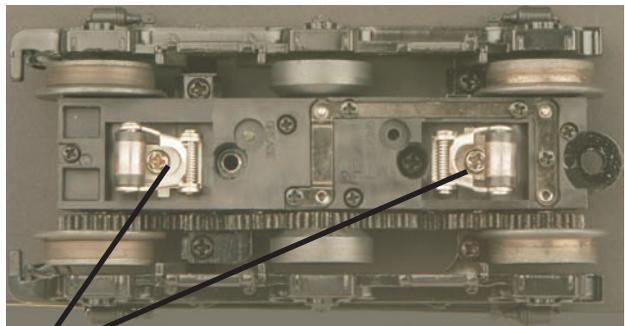
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Proto-Scale 3-2 diesel power trucks feature insulated, bottom load wheel sets that can be operated on 2-rail or 3-rail track. Locomotives come equipped with either scale or hi-rail sized wheel sets, either of which can be swapped out for the other depending on the owner's desire.

Each Proto-Scale 3-2 power truck on a locomotive features a set of wheel sets that are insulated on a specific side so that all the wheels on the same side of the locomotive are insulated. This allows for operation on 2-rail track equipped layouts without creating a short circuit. When replacing hi-rail wheel sets for scale wheel sets (or vice versa), ***it is extremely important to make sure that the axle insulators are located on the correct side of the truck.***

### **REMOVE PICKUP ROLLERS (Hi-Rail Wheel Models Only)**

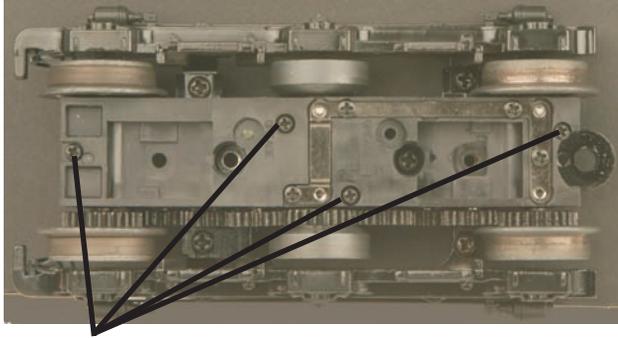
If you are replacing the Hi-Rail wheel sets with scale wheel sets, you must first remove the pickup roller assembly from each power truck. Turn your locomotive upside down and rest on its roof (to prevent scratching the roof, place a towel on your work surface). The assembly is attached with a single phillips screw. It is not necessary to remove the power truck from the chassis.



Remove pickup roller mounting screws.

## REMOVE THE TRUCK BLOCK BOTTOM PLATE

Each truck block features a bottom plate that retains the wheel sets in place. Each plate is held in place by four mounting screws. Only these screws should be removed.

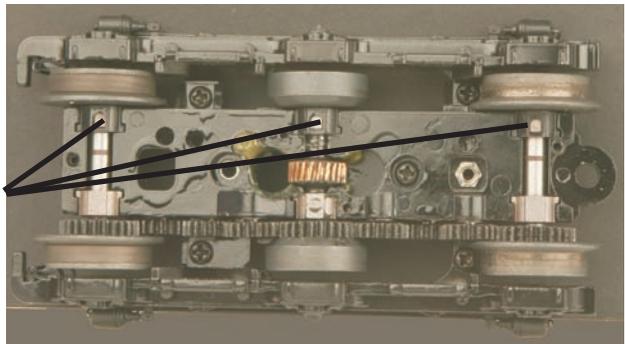


Remove (4) bottom plate mounting screws.

## NOTE ORIENTATION OF WHEEL SET AND INSULATOR POSITION OF EACH TRUCK

Before removing the wheel set, identify which replacement wheel set is needed from the kit. You can do this by identifying where the axle insulator is positioned. Half of the wheel sets in your kit will have the insulator next to the drive gear, the other half will have it next to the wheel without the drive gear. **DO NOT MIX WHEEL SETS UP ON EACH TRUCK.**

Note positions of black insulators. These should match up with pins on bottom truck plate.



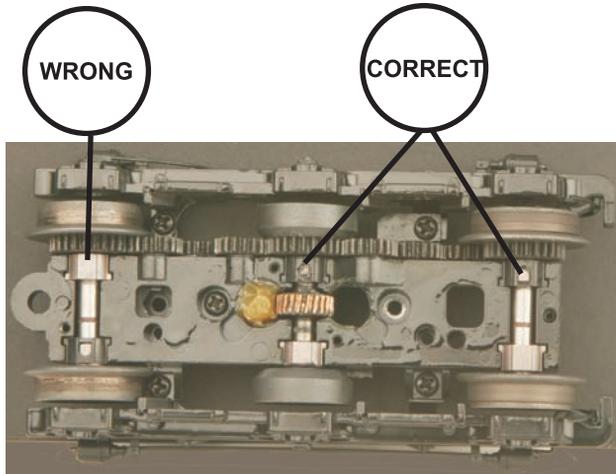
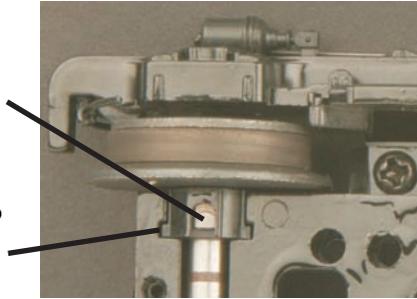
We **strongly** recommend replacing each wheel set on each truck, one at a time to prevent mixing up the wheel sets and truck blocks.

## INSERTION OF REPLACEMENT WHEEL SETS

As detailed prior, it is extremely important to insert the replacement wheel sets in their proper orientation with the axle insulators on the same side of the truck as originally configured. In addition, make sure the hole (A) in the insulator is visible when inserting the wheel set in place. To insert the wheel set, the insulator and brass bushing “wings” (B) slide into slots in the bushing/insulator recessed area.

A. Make sure insulator hole is facing out

B. “Wings” slide into bushing/insulator recess



NOTE: When replacing the bottom plate, DO NOT over tighten the mounting screws.



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