

# MALKY'S N-SCALE S.A.R. MODELS

## SAR Z 4 Wheel Ballast Hopper



*Photo courtesy Picssr.com*

**The Prototype:** 93 15 ton ballast hoppers were built with numbers: 2679-2718,3192-3244.

**Paint Schemes:** The wagons were painted in the standard SAR freight grey livery with white lettering.

**For More Information:**

Much of the information used in the development of the kit and presented here was gleaned from the Modelling the Railways of South Australia Convention data base <http://www.mrsac.com/rollingstock/> Broad Gauge Freight Wagons 1957 (Excel spreadsheet), as well as the SAR line drawings.

**The Kit:** The kit consists of a one-piece body and underframe printed in Shapeways smoothest fine detail plastic. The model requires MicroTrains 1015 couplers and suitable wheels with MicroTrains axle length (0.540") to complete it.

1. Clean the plastic parts thoroughly to remove any remaining wax from the printing process. This is essential to ensure good paint and glue adhesion. Cleaning can be by soaking in suitable solvent, such as isopropyl alcohol, assisted with a toothbrush. Further cleaning and/or sanding may be needed to produce an acceptable finish on the plastic parts.
2. Drill the body to accept the screws for the MT 1015 couplers.
3. Painting: first wash the model in warm soapy water, rinse and dry. Apply a primer, then paint the body with light or dark SAR grey, depending on the era modelled.

4. Apply decals. Black panel with number and tare weight to the upper left corner of the body (see photographs).

5. Fit couplers. Drill where marked for the screws of the MicroTrains 1015 couplers. Fit wheelsets.

**Acknowledgements:** Photos from Picssr.com and SteamRanger website, much assistance from Geoffrey Biggs, the prime mover behind this project.



Photos courtesy SteamRanger

