

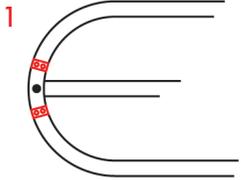
# Using Greenwich Couplings with the Rugga Chassis

## General Information

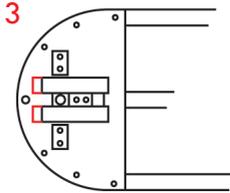
We can install the couplings on both the standard chassis and the chassis modified for the brake end. The brake end moulding is 0.75mm higher than the standard chassis frame so there are two hook types to compensate for this. When the coupling link is fitted to the chassis it will be level with the top of the brake end, but raised 0.75mm higher.

## Coupling Loop

Remove the moulded coupling pocket detail on the top of the chassis (1). If the wagon is intended to be used in a rake the detail can be left at the other end and the kit finished as normal. Make sure the end is perfectly flat.

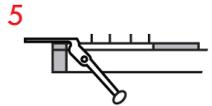
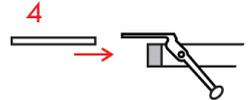


Extra Brake End Modifications



When fitting the coupling loop to the brake end chassis it will need to be modified (2) to give more clearance. Also, elongate the two slots to allow the coupling loop to be positioned closer to the end (3).

Only the coupling link is needed from the Greenwich Couplings fret. Fold using small fine nosed pliers. Lay the coupling loop on the chassis using a piece of 0.75mm thick Plastikard to give the correct height (4). The loop on the brake end will be flush with the moulding (5). Push the loop as far along the centre rib as it will go. With the loop in this position drill the 0.5mm hole for the pivot pin. Because of the position you cannot drill right through the rib, instead hold the drill below the moulding and inclined upwards slightly and drill half way through the moulding from either side. Ensure the drill is kept at right angles when viewed from the top.



## Fitting the Coupling Loop

Use a drill to open out the pivot holes in the coupling loop to 0.65mm to ensure free movement of the loop when fitted. Cut one of the coupling pins and cut to 5mm long including the head. Fit the loop using the pin. Despite the pivot hole being drilled at two angles the pin will push easily but firmly into the rib moulding and allow the loop to operate up and down freely.

## Hook End

Remove the moulded detail on the top of the chassis as drawing 1. If the wagon is intended to be used in a rake the detail can be left at the other end and the kit finished as normal.

Drill the hole so the etched brass hook is a tight fit, or glue in position. The hooks can be chemically blackened before use. The taller hooks are for use with the standard chassis and the shorter hooks are for use with the brake end chassis.



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