

# THE POLICAR TRACK SYSTEM

In December of 2017 Policar; a part of Slot.it, announced that they would begin production of a track system meeting the requirements of European clubs, which race mainly on plastic tracks; as well as a top quality option for home tracks.

The track has 90mm lane spacing – the same as Ninco track.



Ninco has been the most widely used club track, and the Policar track has a textured, but less abrasive surface perfectly suited for grip when racing without traction magnets, and forgiving in dusty environments. The track is made from a rigid plastic which will not warp, and the plastic slot liner inside the rails will not fold inwards or close up at the joints. There is an adapter track between the two systems.

Having seen prototypes when I visited Galileo Engineering (Slot.it) earlier in 2017, I can attest that they have adopted the best aspects of other track systems, and improved joining methods, surface, and plastic composition.

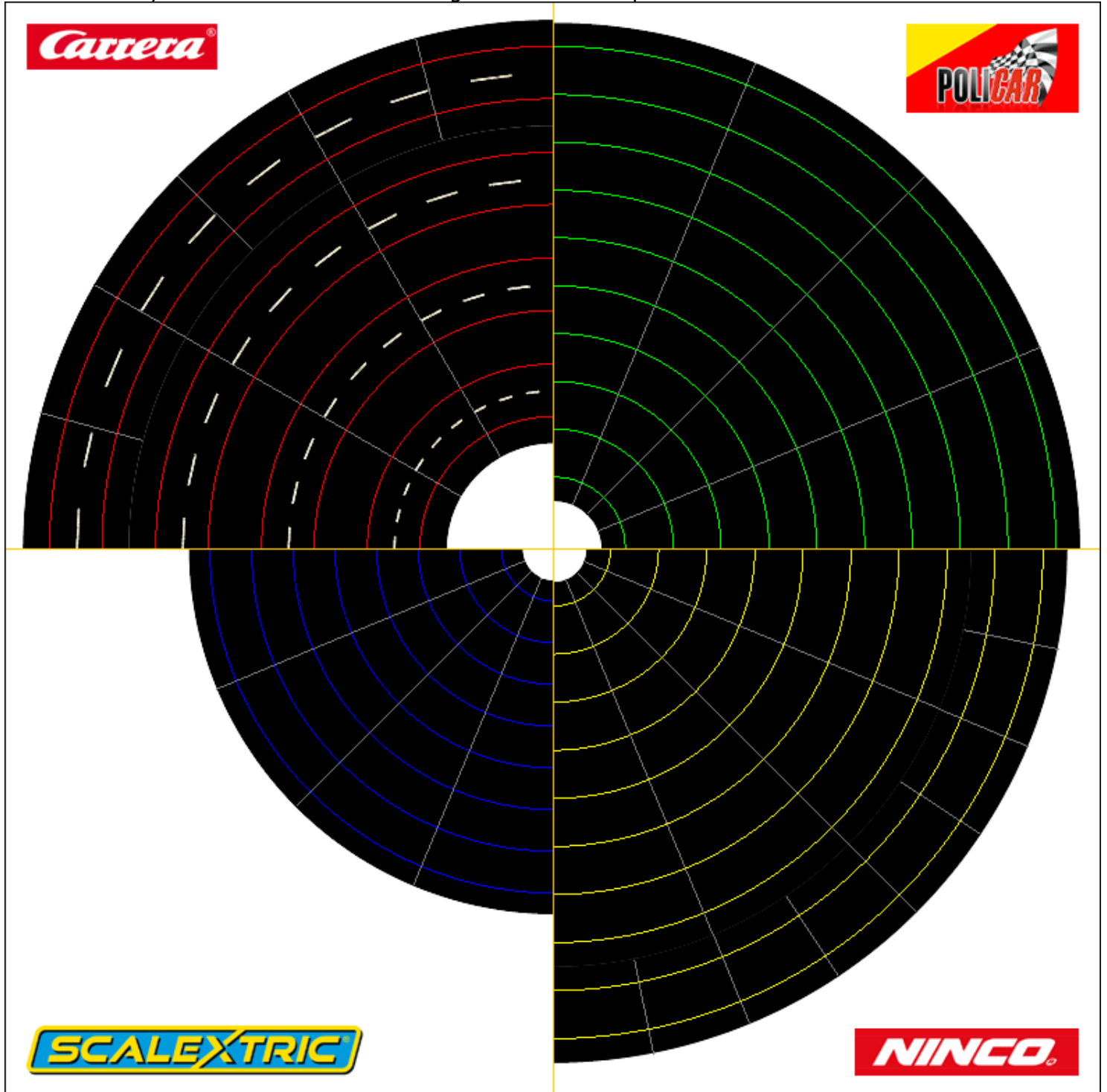
Following on the next page are track system size comparisons

Track Systems Curve Diameter comparisons in MM (for 4 lanes)

Curve Number	Scalextric/SCX			Policar			Ninco			Carrera		
	Inside Diameter	Inner Lane Diameter	Outer Diameter	Inside Diameter	Inner Lane Diameter	Outer Diameter	Inside Diameter	Inner Lane Diameter	Outer Diameter	Inside Diameter	Inner Lane Diameter	Outer Diameter
R1	120	198	430	179	269	537	123	213	483			
R2/R1 Carrera	430	508	740	537	627	895	483	573	843	404	503	800
R3/R2 Carrera	740	818	1,050	895	985	1,253	843	933	1,203	794	893	1,190
R4/R3 Carrera	1,050	1,128	1,360	1,253	1,343	1,611	1,203	1,293	1,563	1,194	1,293	1,590
R5/R4 Carrera				1,611	1,701	1,969	1,563	1,653	1,923	1,584	1,683	1,980

This diagram shows clearly the comparison between curve radii of the major tracks systems

- The Policar system caters for small and large radii with 5 steps of curve



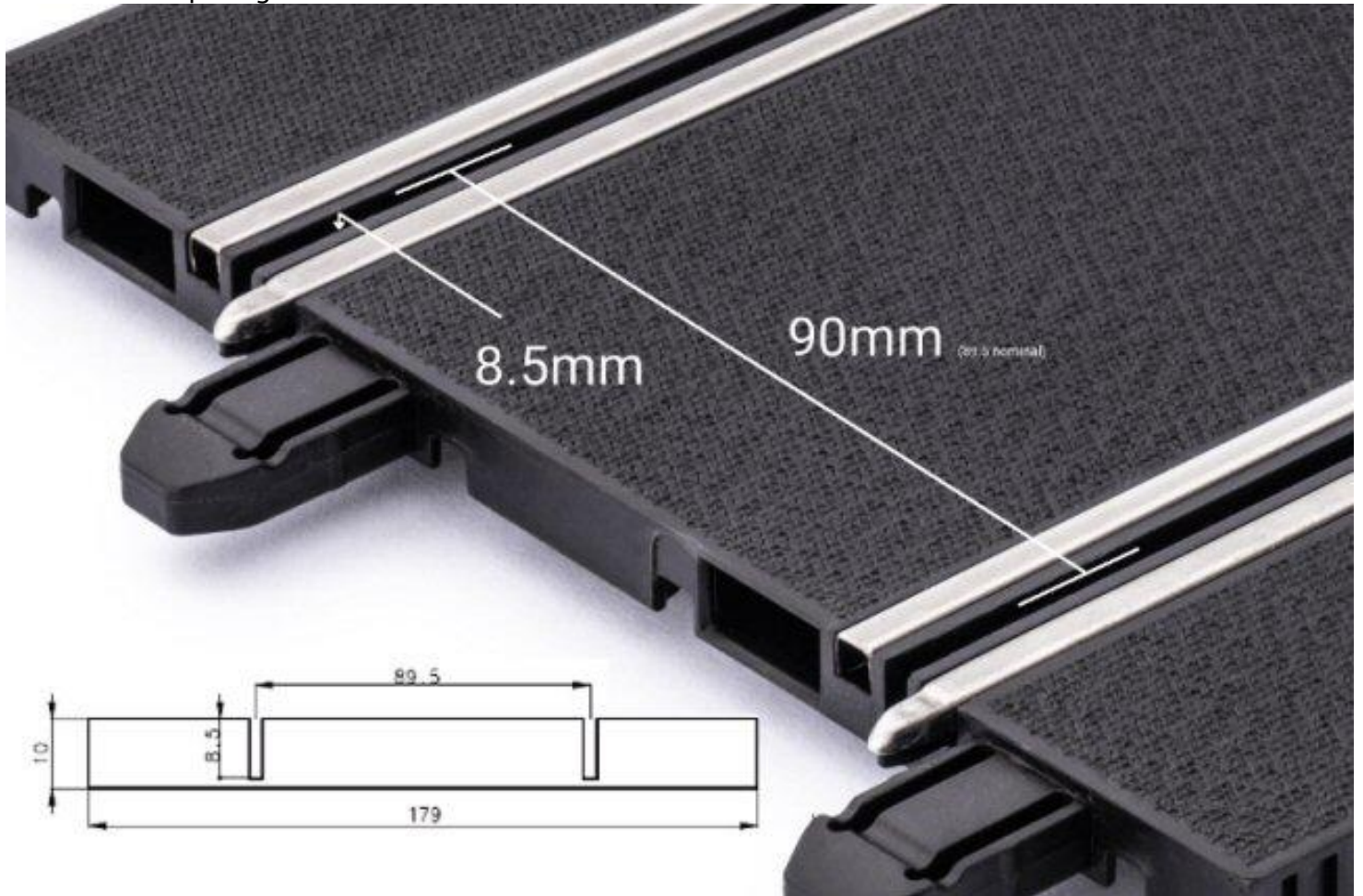
- Textured surface scrubs dust from tyres to maintain better grip than smooth tracks in dusty conditions
- Note the rail liner, and flat racing surface - the rails are not "raised"



- Rigid plastic that will not warp or buckle with temperature change.



- Slot depth 8.5mm will take Slot.it wood guides
- 90mm lane spacing

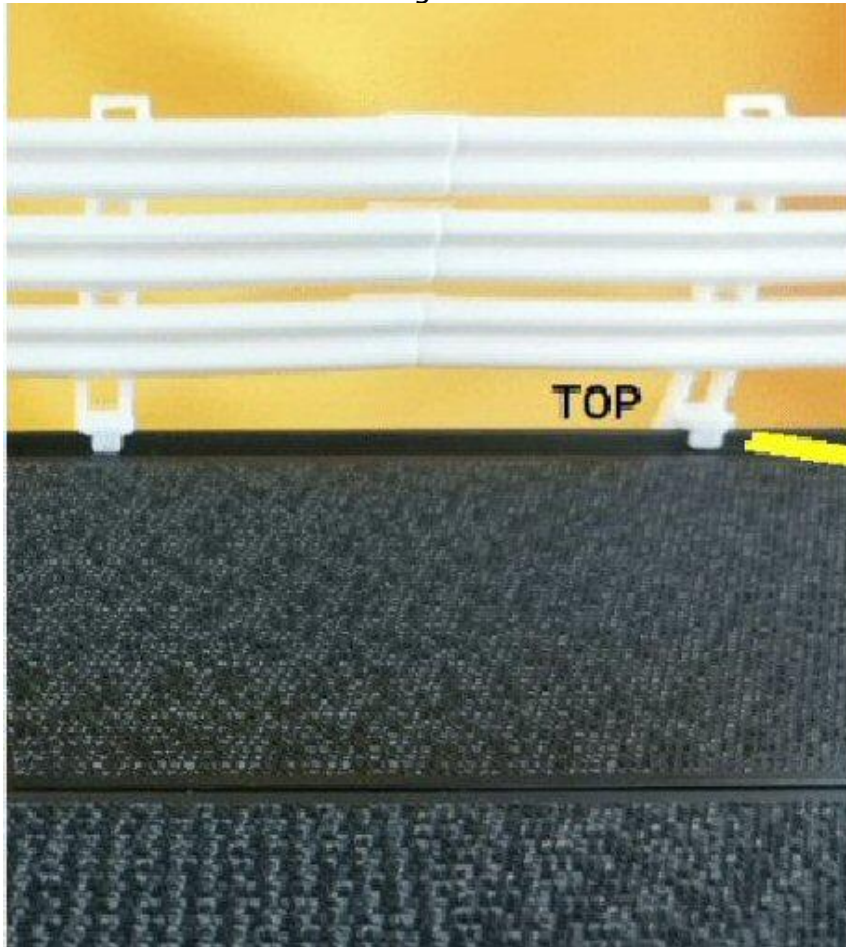


Robust electric connection, easy to use, secure clipping system; lined slot which will not close up at the joints

The electrical connection is very good, and the steel used is described as "rust resistant" – stainless steel.



- 60mm wide border sections gives 105mm from slot centre to guard rail, great for non magnet racing

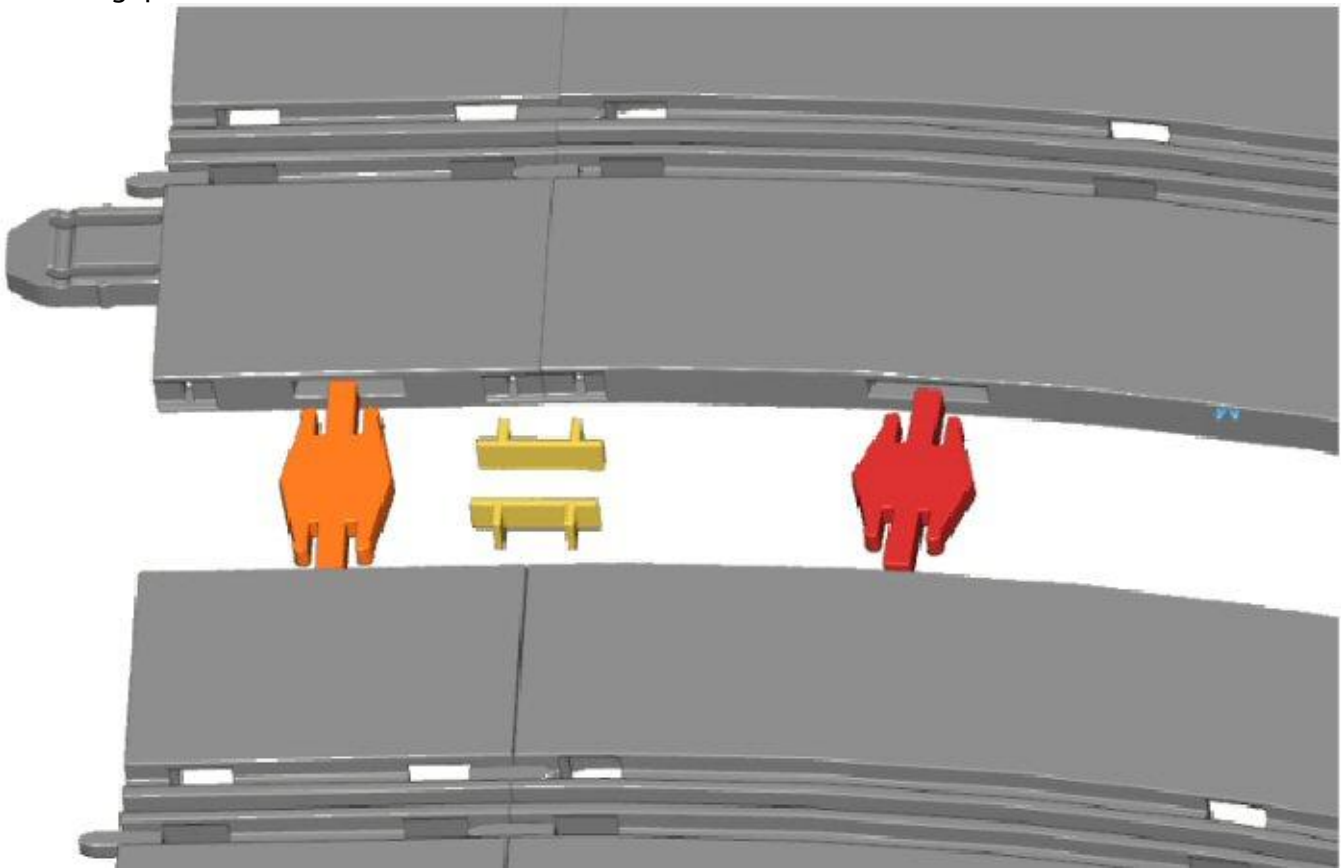


- Robust guard rails that clip above and below track

The joining system is easy to use for smaller hands, and very good, but these clips provide additional security for locking sections together longitudinally in more permanent layouts



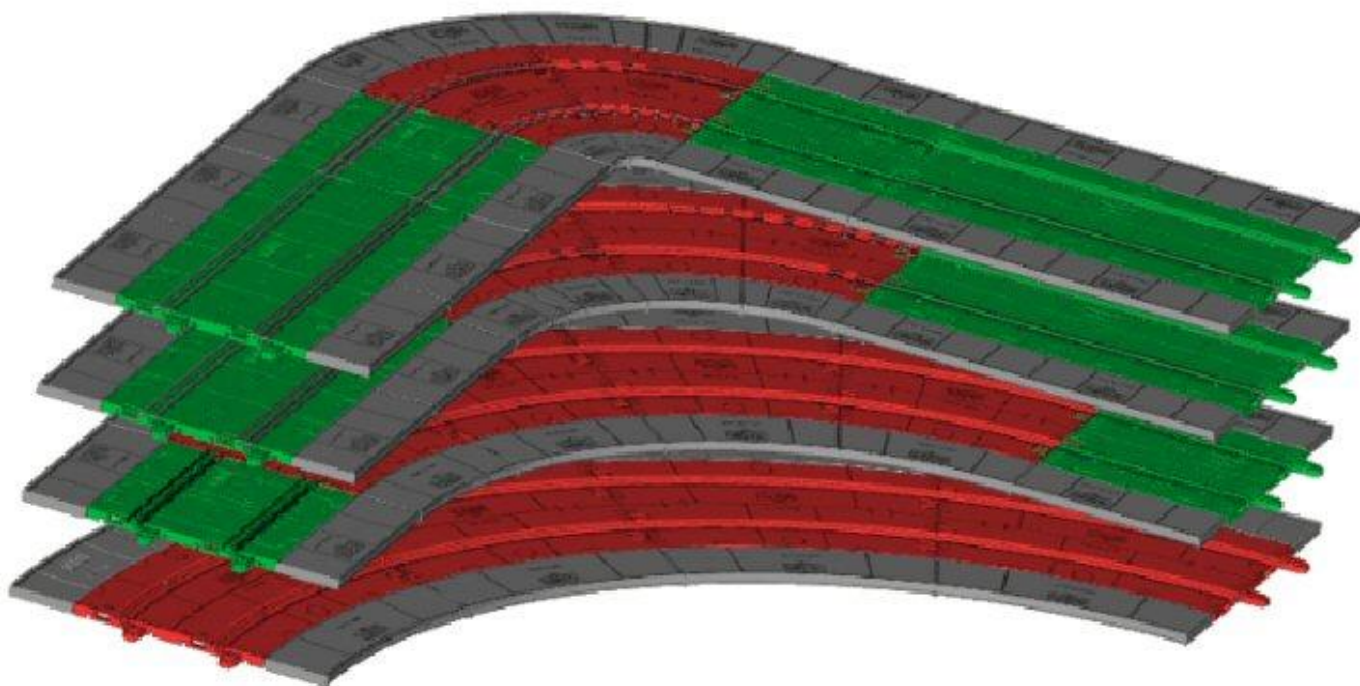
The clips pictured below in orange and red securely lock 4, 6 and 8 lane systems together laterally to eliminate gaps



They have designed the geometry, so that a layout can have the turns altered, while retaining the main structure, as the geometry of the various curves simply requires the addition or subtraction of half straight pieces to restore continuity.

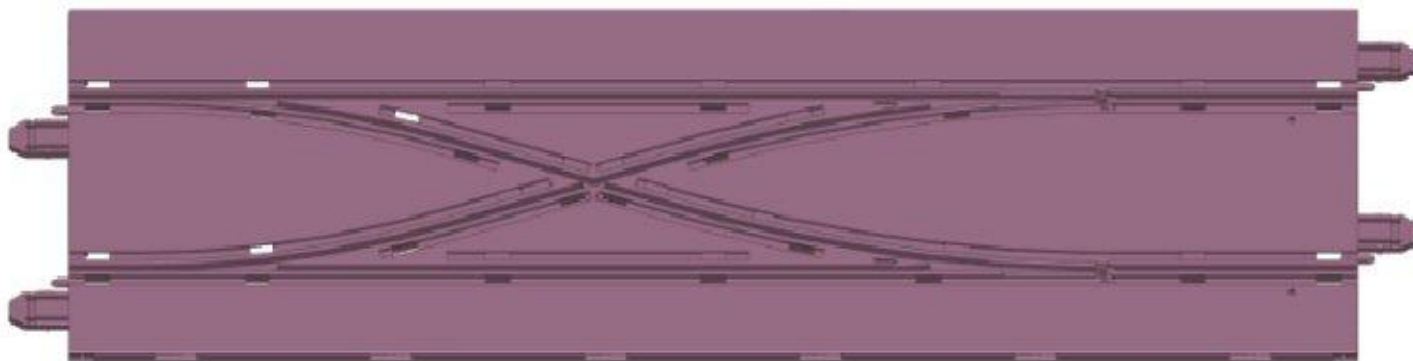
See R1 at top, through to R4 at bottom.

Initial track will be 4 lane (R1 and R2), expanded to 8 lane at the end of 2018



This will be a real bonus for people who like to experiment with track alterations.

In 2019, digital track pieces will be added.



There is additional detail in the document at this link "[WhyPolicar](#)"