



TRACK GEOMETRY RADIUS/VERSINE  
GAUGE

DTSRD-N1-01

039/127157

ASSEMBLY, OPERATION AND  
MAINTENANCE MANUAL.

FOR NETWORK RAIL



Revision	Author(s)/Date	Approved By
1	A.Gilbert DTS 05.07.13	
1	F.Shipley DTS 05.07.13	

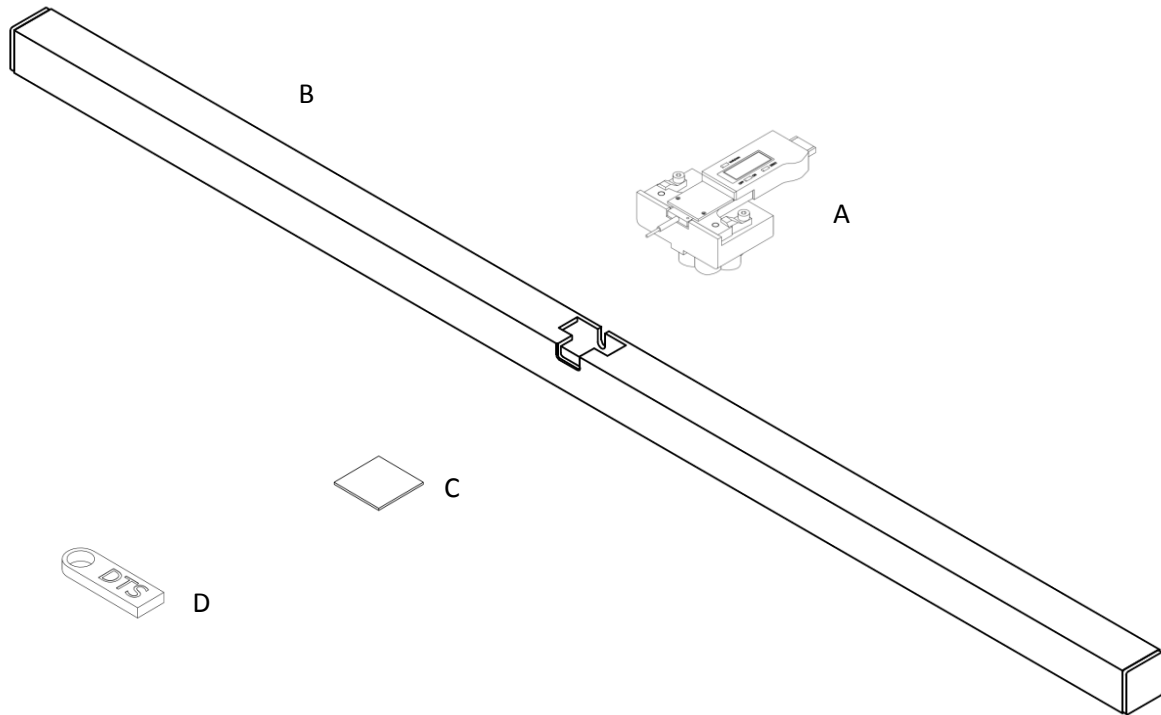
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## 1. General Information.

### 1.1. Basic Components.



A: Digital Reader.

B: Radius Gauge Bar-Magnets Are Fitted Inside The Bar at Each End To Aid Contact On the Rail.

C: Metal Plate To Aid Zeroing The Gauge Reader.

D: An Electronic Memory Stick Loaded With a Radius Look Up Chart And Calculator Plus a Leg Opening Calculator.

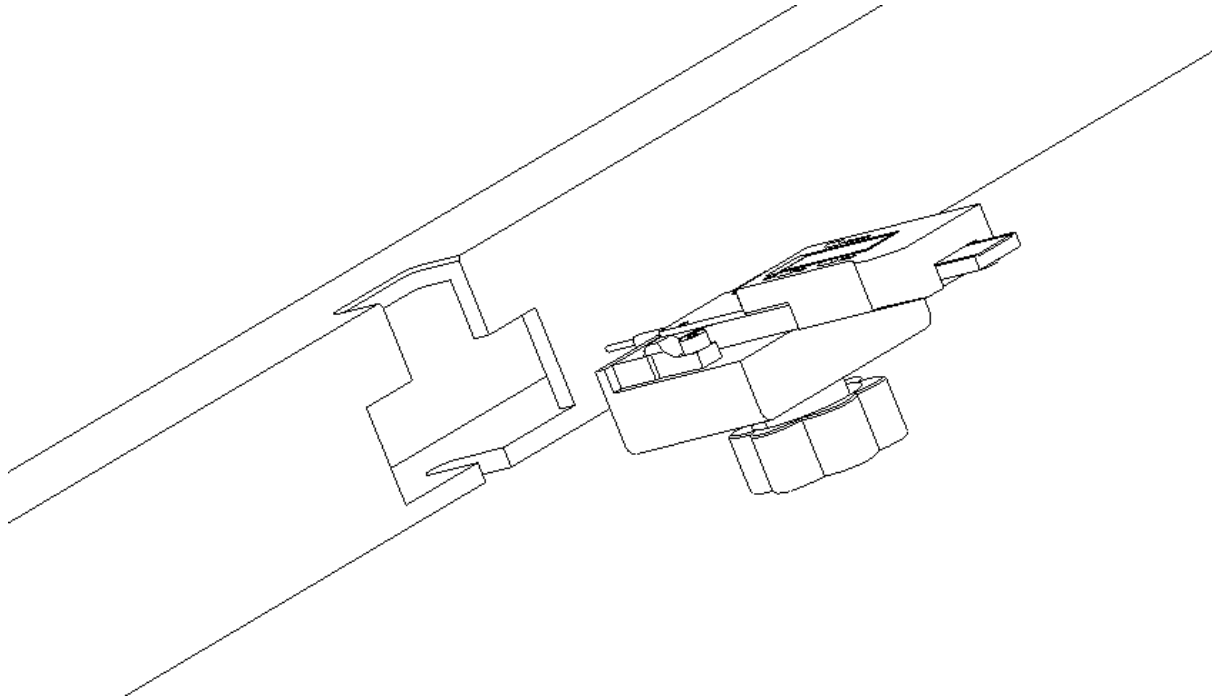
### 1.2. Function.

The gauge is intended to record any **S&C** or **plain line radii**. It is also used for measuring joint **dip angles** and **welded curved S&C** and **plain live joints**. All measurements by the gauge are measured to an accuracy of **0.01mm**.

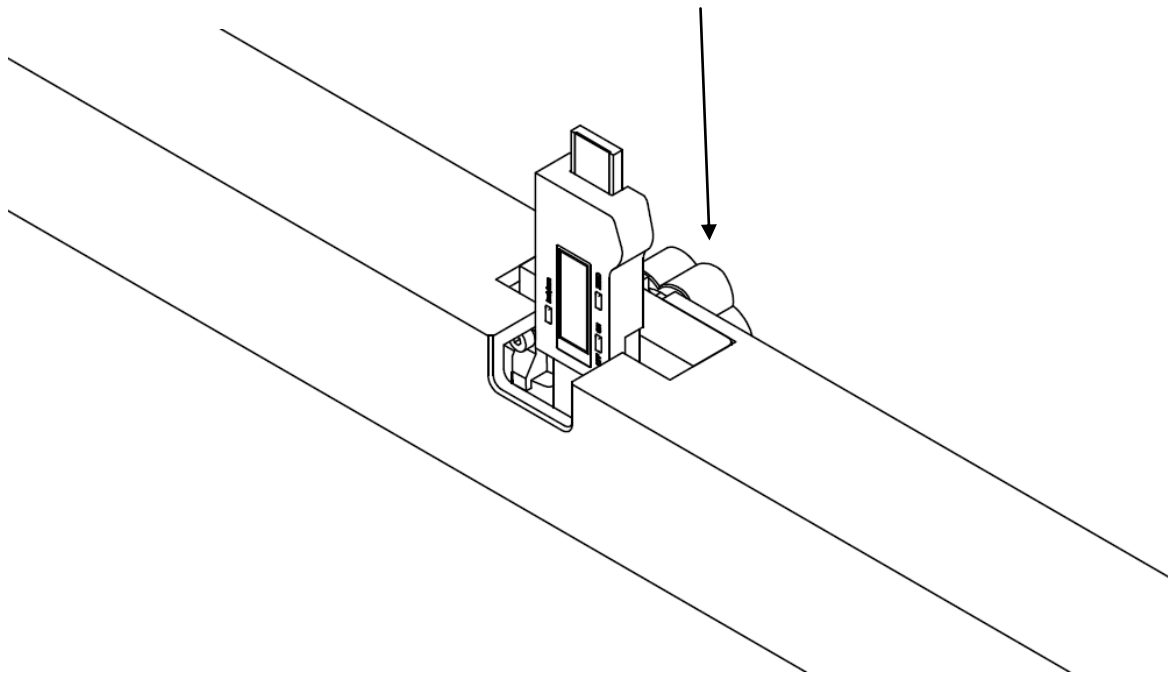


### 1.3. Assembly.

- First insert the reader into the Gauge Bar.



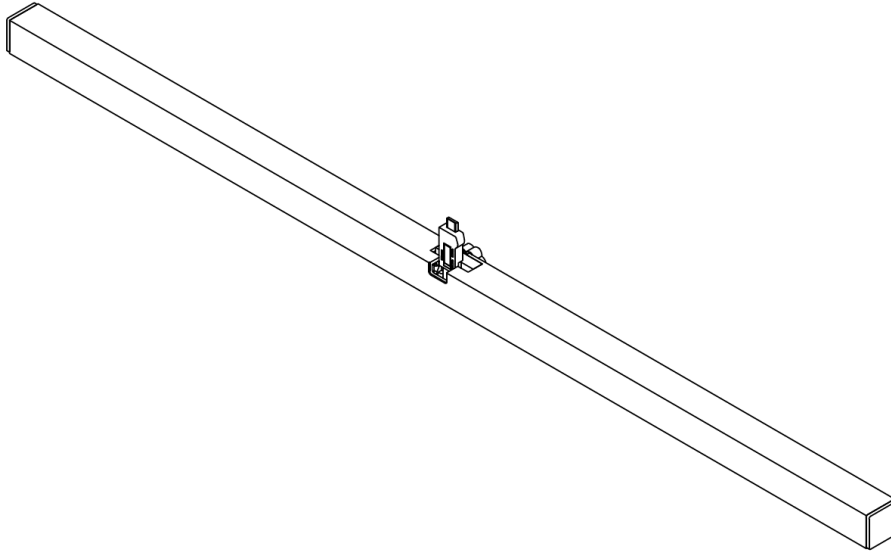
- Once inside the bar, lock off using the locking wheel.



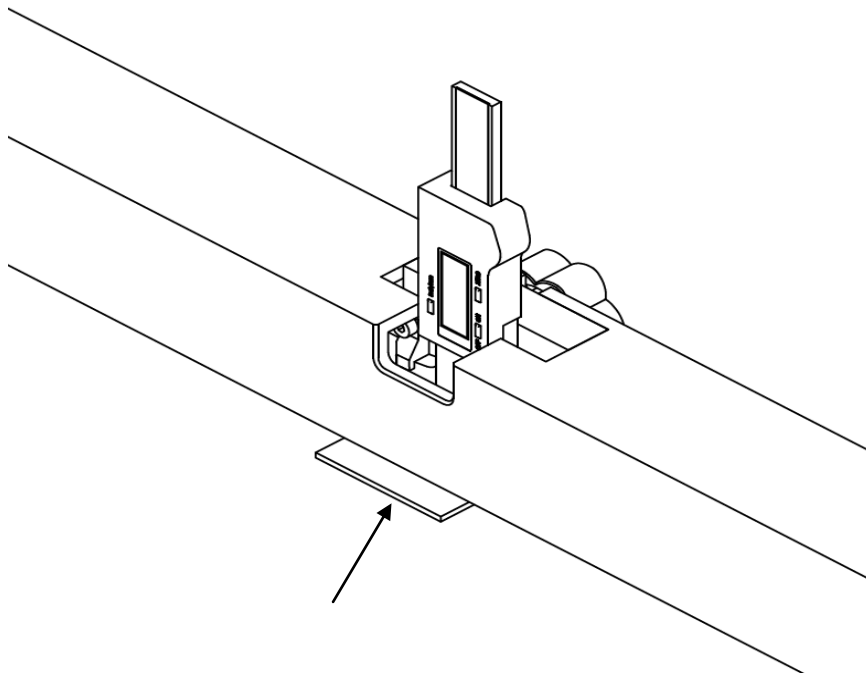


#### 1.4. Operation.

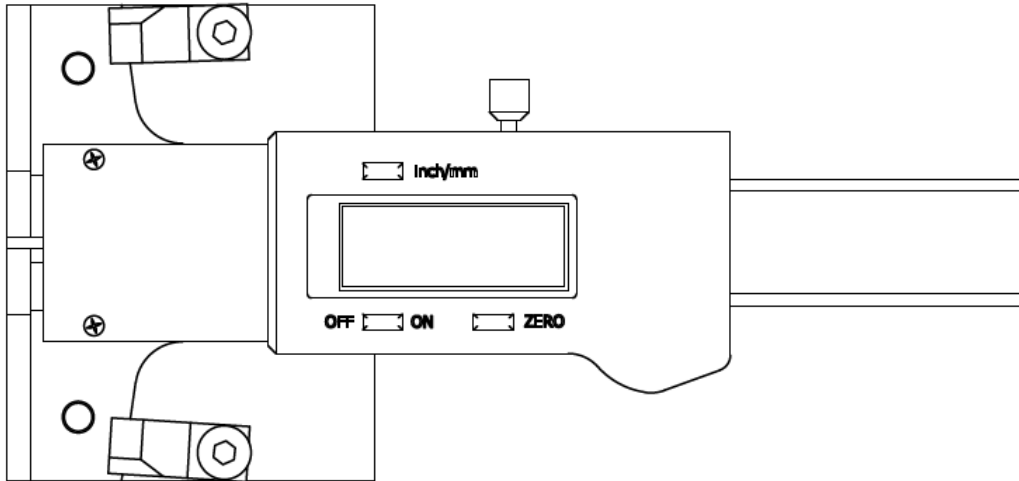
- The gauge is ready for use. The assembled weight of the gauge is 3.7KG.
- **Please note:** In wet weather conditions please attach the shower proof sheaf supplied over the bar digital reader.



- Switch on the reader. Select M/M for the appropriate measurement reading. Place the metal plate provided on the underside face of the bar and then zero the reader against it.

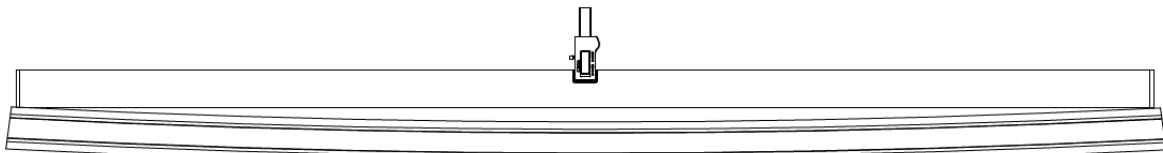


- You can lock off the Digital Reader from the top to stop movement when measuring.

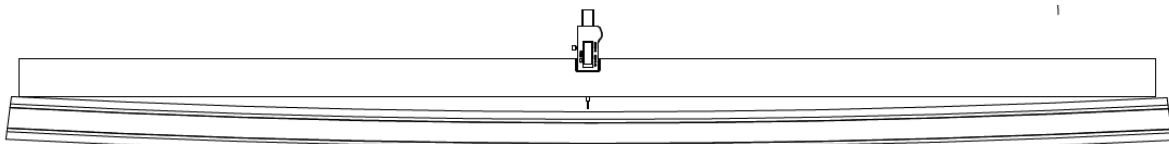


Note: The Chord Length is 1.5M.

1. The bar is placed across the rail. (NOT TO SCALE).



2. The probe of the digital reader is pushed into contact with the rail. This will give a reading which should be noted down and compared to the radius look up chart or inputted into the calculator.





### 1.5. Material.

The radius gauge bar is ISO-Resin composite with plastic capped ends.

The digital reader housing is a plastic composite.

The reader is stainless steel and plastic.

## 2. Maintenance

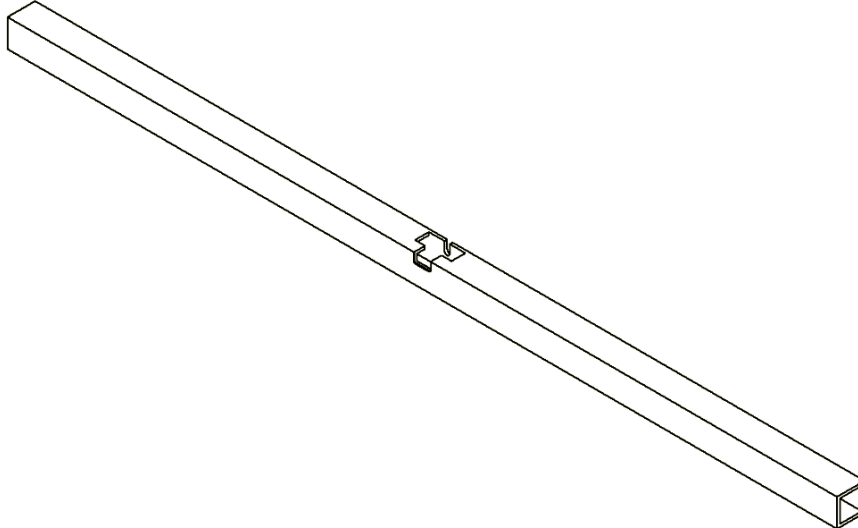
### 2.1 . Maintenance Procedure.

The radius gauge bar requires no specific maintenance other than the contact surface should be wiped clean after use. The digital reader is also maintenance free other than the changing of the battery as required. The average battery life is usually 1 year (2 supplied with gauge). If exposed to moisture the digital reader should be wiped dry before storage.

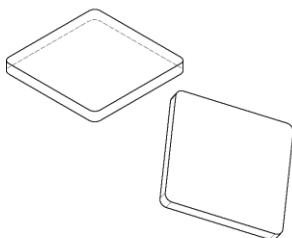
### 2.2. Parts List.

Note – Part No for the complete Gauge Package is 039/127157.

1. 1 x ISO-Resin Composite Gauge Bar (PART NO – 039/127152).

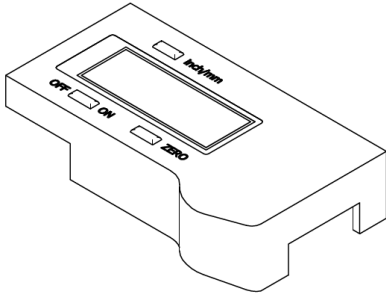


2. 2 x Plastic End Caps (PART NO – 039/127153).

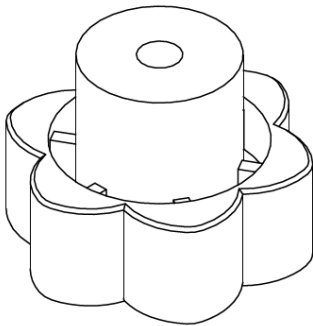




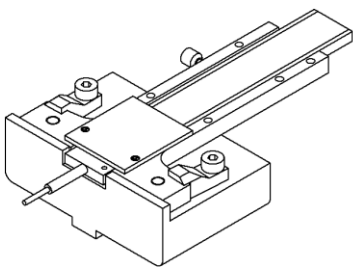
3. 1 x Digital Reader Display (PART NO – 039/127154).



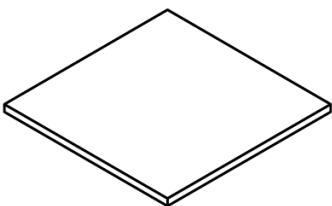
4. 1 x Locking Wheel (PART NO – 039/127155).



5. 1 x Digital Reader Housing (PART NO – 039/127156).



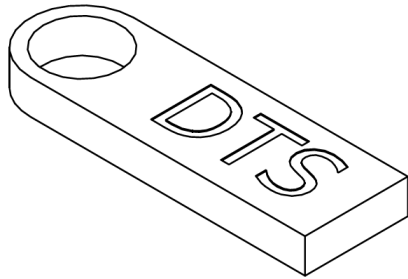
6. 1 x Steel Plate







7. 1 x Memory Stick



8. 1 x Shower proof sheaf for use in wet weather conditions.

