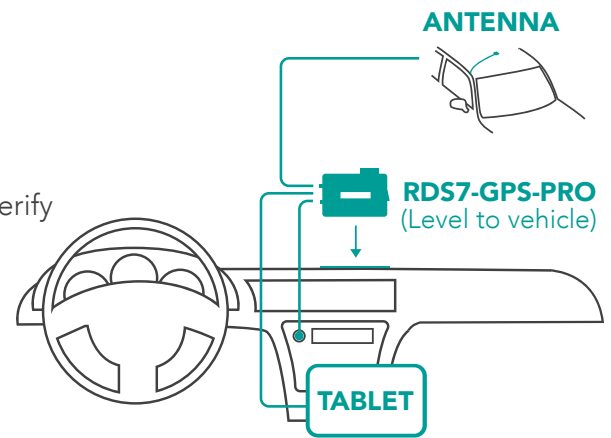


## Account Setup

- 1) Save your account key
- 2) To reset your password visit **riekersolutions.com** and go to "My Account"
- 3) If you can't "Connect To The Server" on the tablet
  - Line 1 red = Confirm tablet is connected to the internet
  - Line 2 red = Confirm server address: reads "riekersolutions.com"
  - Line 3 red = Confirm Login and/or password is correct

## Installing Equipment

- 1) Make sure RDS7-GPS-PRO is level to the vehicle
  - Drive to level surface (concrete pad or gas station) to verify
  - Pull in/back in, confirm equal opposite values
- 2) Check device calibration periodically to validate data



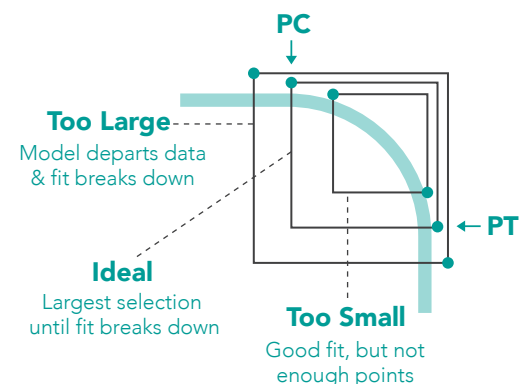
## Collecting Data

- 1) Record continuously
  - There is no need to stop/start collection at each curve (but it is okay to do so)
  - Though you can, there is no need to leave on for the entire day, creating a very large file
  - Best practice: Record one pass of a corridor then stop and start again for reverse direction
- 2) Drive smoothly
  - Stay in the center of the lane
  - Avoid under/over steering
  - Drive at least one pass in each direction
  - Best practice: 2+ passes in each direction
- 3) Drive slow
  - Drive at or below the speed limit
  - Maintain a constant speed
- 3) If you lose GPS: Try pass later in day or next day



## Analyzing Data

- 1) Select the largest amount of the curve before the fit deteriorates
  - 99.9-94.0% (Excellent), 93.9-88.0% (Good), 87.9-Less (Poor)
  - Reverse curves must be treated as multiple curves
  - For loop ramps, use circular model around entire curve
- 2) Enter the posted speed limit and click "update"
  - Gives proper side friction limit



Please visit **www.riekersolutions.com** for more information


## Analyzing Data



### Single Curve - Curve with a deflection angle less than 140 degrees

- Select the **highest** recommended speed across all good passes



Pass 1	25	
Pass 2	30	
	<b>30</b>	

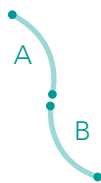
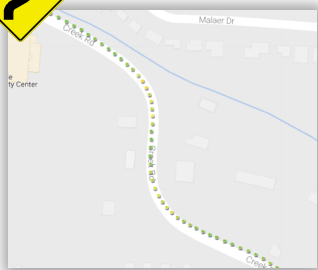
Recommended advisory speed








⇒ **30 MPH**



### Reverse Curve - Two overlapping curves or with a tangent less than 600 feet

- Create two curves
- Select the **highest** recommended speed across all good passes for each curve
- Use the **lower** of the recommended speed across the two curves



			
Pass 1	30		
Pass 2	25		
Pass 3	30		
	<b>30</b>		<b>40</b>

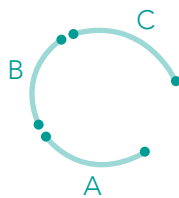
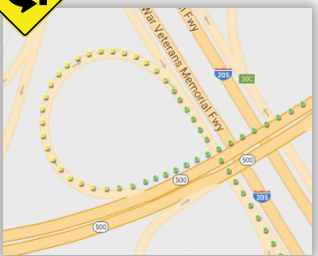
Recommended advisory speed













⇒ **30 MPH**



### Loop (parabolic model) - Curve with a deflection angle greater than 140 degrees

- Create multiple sections, each less than 140 degrees
- Select the **highest** recommended speed across all good passes all the sections



				
Pass 1	35			
Pass 2	30			
Pass 3	35			
	<b>35</b>	<b>30</b>	<b>40</b>	

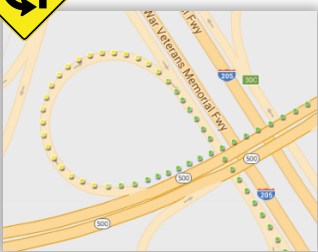
Recommended advisory speed

⇒ **30 MPH**



### Loop (circular model) - Curve with a deflection angle greater than 140 degrees

- Select single curve around the entire loop containing all the good passes
- Select the **highest** recommended speed across all good passes



			
Pass 1	30	25	25

Recommended advisory speed

⇒ **30 MPH**

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