# 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
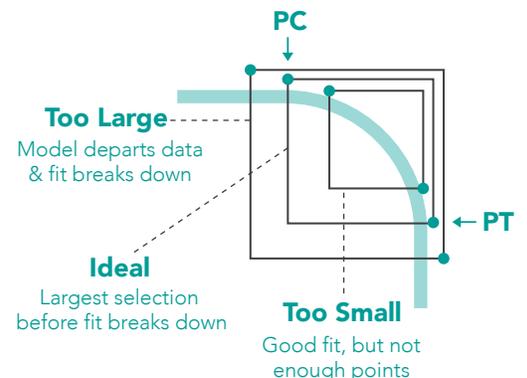
2) Check device calibration periodically to validate data

ANTENNA

RDS7-GPS-PRO
(Level to vehicle)

TABLET
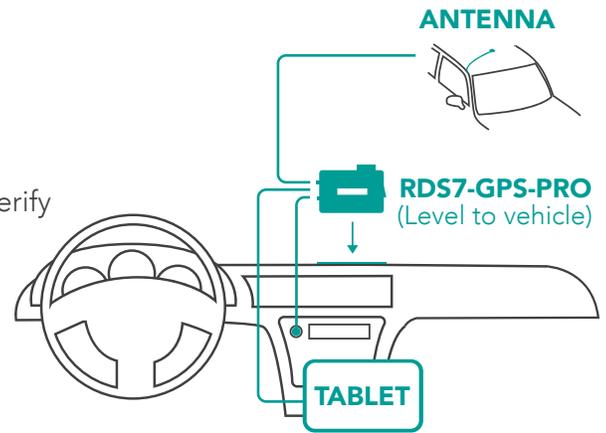
Collecting Data

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

4) If you lose GPS: Try pass later in day or next day

GOOD

BAD

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

PC

Too Large
Model departs data
& fit breaks down

Ideal
Largest selection
before fit breaks down

← PT

Too Small
Good fit, but not
enough points

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

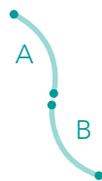|		Curve A	
Pass 1	25		
Pass 2	30		
	30		

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

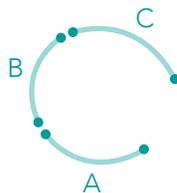|	Curve A		Curve B
Pass 1	30		40
Pass 2	25		30
Pass 3	30		35
	30		**40**

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
- Select the **lowest** recommended speed across all sections

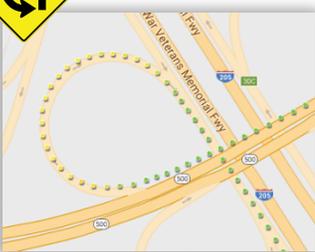|	Section A	Section B	Section C
Pass 1	35	30	35
Pass 2	30	25	40
Pass 3	35	25	35
	35	**30**	**40**

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

Curve A	Curve A	Curve A
Pass 1	Pass 2	Pass 3
30	25	25

Recommended advisory speed

⇨ **30 MPH**

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