GPS Lap Timer Instructions
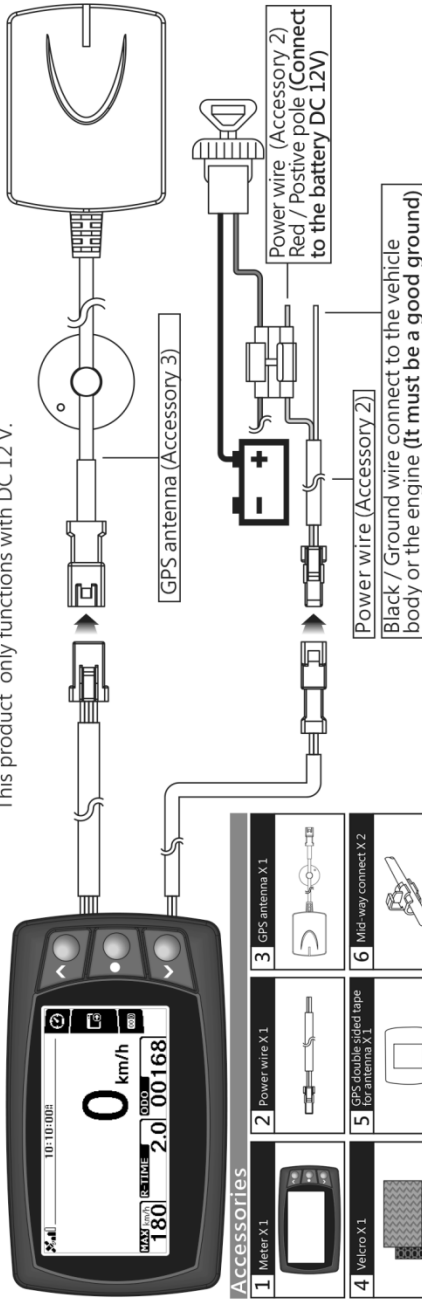
Table of Contents

Wiring installation instructions

This product only functions with DC 12 V.

GPS antenna (Accessory 3)

Power wire (Accessory 2)
Red / Postive pole (**Connect to the battery DC 12V**)

Power wire (Accessory 2)
Black / Ground wire connect to the vehicle body or the engine (**It must be a good ground**)

Accessories

| 1 Meter X 1 | 2 Power wire X 1 | 3 GPS antenna X 1 |
| 4 Velcro x 1 | 5 GPS double sided tape for antenna X 1 | 6 Mid-way connect X 2 |

⚠ Do not install the GPS antenna inside the vehicle, because windshield heat isolation film will result in poor signal reception. It is recommended to be installed on top of the vehicle.

⚠ GPS antenna should not be in contact with cell phones and transceivers, because that could cause signal reception problems.

Screen Overview & Key Symbols
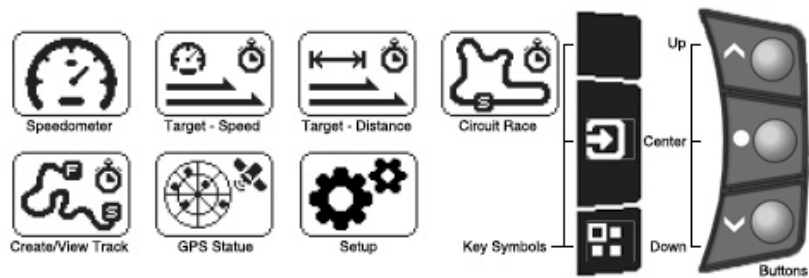
Scroll through the functions on the Main screen with the **DOWN** Button.

Key Symbols correspond to the buttons in the various function screens.

Key symbol descriptions

Boot screen		Race Display					Settings Display	
MAX / AVE		Scores		OK		New		Select
Next tab		Race		Return		Checkpoint		Edit / Add
ODO / Trip		Select		Return		View		Edit / Sub
		Open		Abort		Edit		Delete
		Start		Abort		Up		
		Go		Exit		Down		
		Finish		Exit				

Quick Start – Timing Laps

Create Track

Before you can begin timing your laps (Circuit Race) you must create a track. For complete details on track creation, track editing and creating segments see page 13.

→ Press the **DOWN** button to highlight the **Create/View Track** icon and press the **CENTER** button to create a track.

→ Press the **DOWN** button to scroll to the Track Name field and press the **CENTER** button to edit the Track Name.
- Change the letters with the **UP** and **DOWN** buttons
- Press the **CENTER** button to move to the next character
- When done with the name press and **HOLD** the **CENTER** button for **3 seconds** to return to the previous screen

→ Press the **DOWN** button to scroll to the Track Width field and press the **CENTER** button to increase the Track Width.

→ Press the **DOWN** button to scroll to the Start Track Learn field
- Press the **UP [S]** button to Start learning the track
- Press the **DOWN [F]** button to set up your Finish line
- Press the **CENTER** button for 3 seconds to return to the main screen

A NOTE about setting your START/STOP line for lap times: The GPS records your position within 6-10 feet so you should choose a location on the track where you will have the most consistent positioning. Choosing an area where you frequently change your line may result in laps not being recorded.

Create a Session

→ Press the **DOWN** button to highlight the **Circuit Race** icon and press the **CENTER** button to create a new session.

→ Press the **DOWN** button to scroll to the Session Name field and press the **CENTER** button to edit the Session Name.
- Change the letters with the **UP** and **DOWN** buttons
- Press the **CENTER** button to move to the next character
- When done with the name press and **HOLD** the **CENTER** button for **3 seconds** to return to the previous screen

→ Press the **DOWN** button to scroll to the **Track** field and press the **CENTER** button to enter the **Select Track** screen.
  • Scroll through the list of Tracks with the **UP** and **DOWN** buttons
  • Press the **CENTER** button to select your Track

→ Press the **DOWN** button to scroll down to **Start Racing** and press the **CENTER** button to open the **Lap Timing** screen.

Timing Laps

Before you can begin timing your laps (Circuit Race) you must create a track. For complete details on the Lap Timing screen see page 11.

→ To **Start** timing your laps press the **CENTER** button **[G]**. The **GO!!** symbol in the upper left corner will begin flashing and the stopwatch has started counting.

→ To **Stop** timing your laps press the **CENTER** button **[■]**.

→ Press the **DOWN** button to exit to the main screen.

Viewing Recorded Laps

Press the **UP** button to view your recorded lap times.

Scroll through the list of **Tracks** with the **UP** and **DOWN** buttons and press the **CENTER** button to enter the **Select Session** screen.

Scroll through the list of **Sessions** with the **UP** and **DOWN** buttons and press the **CENTER** button to view the **Session Details** with your lap times and differences.

If you have segments set up for the track you can view them for each lap. See page 14 for more details about creating lap segments.

Press and **HOLD** the **CENTER** button for **3 seconds** to return to the previous screen and repeat until you return to the Main screen.

Speedometer Function

Press the **DOWN** button to highlight the **Speedometer** icon and press the **CENTER** button to enter the function.

Max Speed Or Avg Speed	Riding Time	Trip Meter Or Odometer
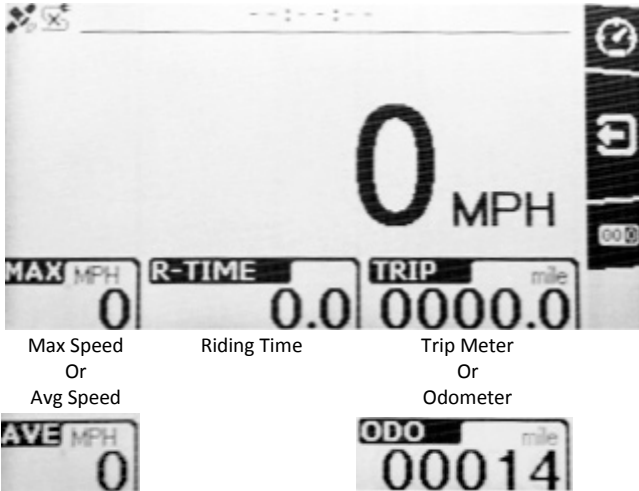
Press the **UP** button to alternate between **Maximum Speed** and **Average Speed**.

To **RESET** the **Maximum** Speed record press and **HOLD** the **UP** button for **3 seconds** while **MAX** speed is displayed.

To **RESET** the **Average** Speed record and **Trip** distance press and **HOLD** the **DOWN** button for **3 seconds** while **AVE** speed is displayed.

Press the **CENTER** button to return to the Main screen.

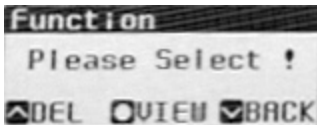# Target Speed Function

View Target Speed Records

Press the **DOWN** button to highlight the **Target Speed** icon and press the **UP** button to enter the **Select Session** screen.

Session list is shown on the left with an info summary for the highlighted session on the right.

Scroll through the list of Sessions with the **UP** and **DOWN** buttons.

Press the **CENTER** button to **View** or **Delete** the Session.

Function
Please Select !
DEL VIEW BACK

- Press the **UP** button to **DELETE**
- Press the **CENTER** button to **VIEW** the session lap details
- Press the **DOWN** button to return

From the Session Lap Detail screen press and **HOLD** the **CENTER** button for **3 seconds** to return to the Select Session screen.

From the Select Session screen press and **HOLD** the **CENTER** button for **3 seconds** to return to the Main screen.

Target Speed Setup / Timing

Press the **DOWN** button to highlight the **Target Speed** icon and press the **CENTER** button to enter Target Speed Setup.

Scroll through the list of options with the **UP** and **DOWN** buttons.

Scroll to the Session Name field and push the **CENTER** button to edit the Session Name.

- Change the letters with the **UP** and **DOWN** buttons
- Press the **CENTER** button to move to the next character

- When done with the name press and **HOLD** the **CENTER** button for **3 seconds** to return to the previous screen

Scroll to the Racing Type field and push the **CENTER** button to edit the Starting and Target speeds.
- Change the numbers with the **UP** and **DOWN** buttons
- Press the **CENTER** button to move to the next field
- When done setting the target press and **HOLD** the **CENTER** button for **3 seconds** to return to the previous screen
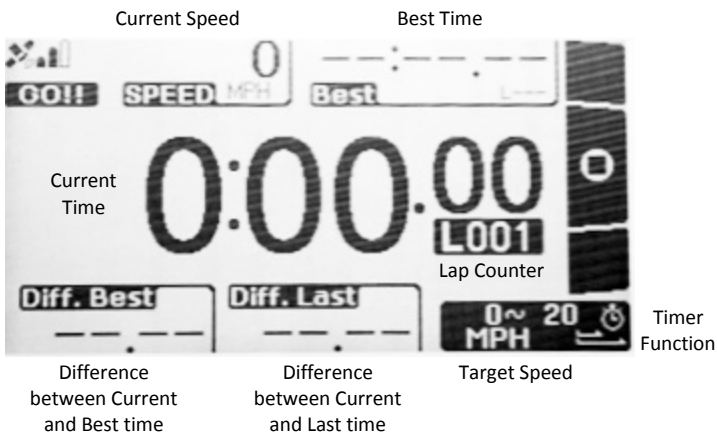
Scroll to the Start Racing option and press the **CENTER** button

To **Start** timing press the **CENTER** button **[G]**. The **GO!!** symbol in the upper left corner will begin flashing. The stopwatch starts and will begin counting as soon as you reach your starting speed.

It will **Stop** counting once you've reached your target speed.

To **Stop** timing at any time during the race you can press the **CENTER** button **[■]**.

Press the **DOWN** button to exit to the main screen.

Current Speed   Best Time

Current Time

Lap Counter

Diff. Best — Difference between Current and Best time

Diff. Last — Difference between Current and Last time

Target Speed

Timer Function

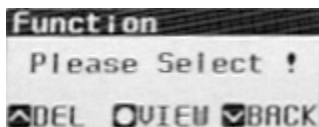# Target Distance Function

View Target Distance Records

Press the **DOWN** button to highlight the **Target Distance** icon and press the **UP** button to enter the **Select Session** screen.

Session list is shown on the left with an info summary for the highlighted session on the right.

Scroll through the list of Sessions with the **UP** and **DOWN** buttons.

Press the **CENTER** button to **View** or **Delete** the Session.

- Press the **UP** button to **DELETE**
- Press the **CENTER** button to **VIEW** the session lap details
- Press the **DOWN** button to return

From the Session Lap Detail screen press and **HOLD** the **CENTER** button for **3 seconds** to return to the Select Session screen.

From the Select Session screen press and **HOLD** the **CENTER** button for **3 seconds** to return to the Main screen.

Target Distance Setup / Timing

Press the **DOWN** button to highlight the **Target Distance** icon and press the **CENTER** button to enter Target Distance Setup.

Scroll through the list of options with the **UP** and **DOWN** buttons.

Scroll to the Session Name field and push the **CENTER** button to edit the Session Name.
- Change the letters with the **UP** and **DOWN** buttons
- Press the **CENTER** button to move to the next character

- When done with the name press and **HOLD** the **CENTER** button for **3 seconds** to return to the previous screen

Scroll to the Racing Type field and push the **CENTER** button to edit the distance

- Choose one of the **Preset** options by pushing the **DOWN** button
- Choose your **Personalized** distance by pressing the **CENTER** button and using the **UP** and **DOWN** buttons to set the distance
- Press the **CENTER** button to move to the next digit
- When done setting the distance press and **HOLD** the **CENTER** button for **3 seconds** to return to the previous screen

Scroll to the Start Racing option and press the **CENTER** button

To **Start** timing press the **CENTER** button **[G]**. The **GO!!** symbol in the upper left corner will begin flashing. The stopwatch starts and will begin counting as soon as your speed increases.

It will **Stop** counting once you've reached your target distance.

To **Stop** timing at any time during the race you can press the **CENTER** button **[■]**.

Press the **DOWN** button to exit to the main screen.
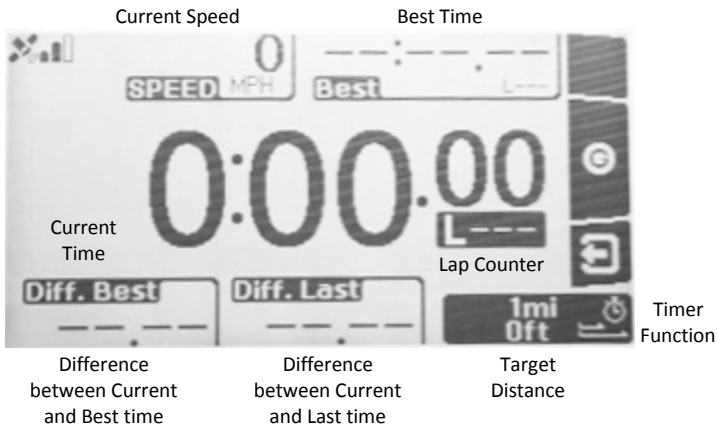
Circuit Race Function

Create a Session

Press the **DOWN** button to highlight the **Circuit Race** icon and press the **CENTER** button to create a new session.
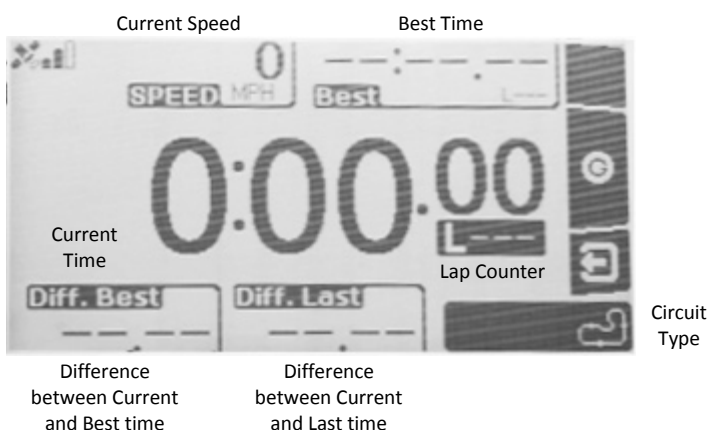
Press the **DOWN** button to scroll to the Session Name field and press the **CENTER** button to edit the Track Name.
- Change the letters with the **UP** and **DOWN** buttons
- Press the **CENTER** button to move to the next character
- When done with the name press and **HOLD** the **CENTER** button for **3 seconds** to return to the previous screen

Press the **DOWN** button to scroll to the **Track** field and press the **CENTER** button to enter the **Select Track** screen.
- Scroll through the list of Tracks with the **UP** and **DOWN** buttons
- Press the **CENTER** button to select your Track

Press the **DOWN** button to scroll down to **Start Racing** and press the **CENTER** button to open the **Lap Timing** screen.

Timing Laps

To **Start** timing your laps press the **CENTER** button **[G]**. The **GO!!** symbol in the upper left corner will begin flashing and the stopwatch has started counting.

To **Stop** timing your laps press the **CENTER** button **[■]**.

Press the **DOWN** button to exit to the main screen.

Viewing Recorded Laps

 Press the **UP** button to view your recorded lap times.

The **Track** list is shown on the left with an info summary for the highlighted track on the right.

Scroll through the list of **Tracks** with the **UP** and **DOWN** buttons and press the **CENTER** button to view the Sessions for that track.

Scroll through the list of **Sessions** with the **UP** and **DOWN** buttons and press the **CENTER** button to **View** or **Delete** the Session.
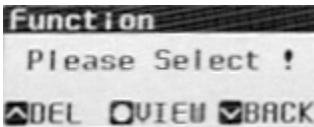
- Press the **UP** button to **DELETE**
- Press the **CENTER** button to **VIEW** the session lap details
- Press the **DOWN** button to return

Scroll through the list of Laps with the **UP** and **DOWN** buttons and press the **CENTER** button to view the Lap Split Segments.

From the Lap Split Detail screen press the **CENTER** button to return to the Session Lap Detail screen.

From the Session Lap Detail screen press and **HOLD** the **CENTER** button for **3 seconds** to return to the Select Session screen.

From the Select Session screen press and **HOLD** the **CENTER** button for **3 seconds** to return to the Main screen.

Create / View Track Function
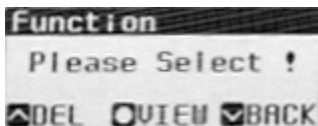
View / Delete Track

Press the **DOWN** button to highlight the **Create/View Track** icon and press the **UP** button to enter the **Select Track** screen.

Track list is shown on the left with an info summary for the highlighted track on the right.

Scroll through the list of Tracks with the **UP** and **DOWN** buttons.

Press the **CENTER** button to **View** or **Delete** the Track.

- Press the **UP** button to **DELETE**
- Press the **CENTER** button to **VIEW** the track details
- Press the **DOWN** button to return

The numbers along the track line indicate the split segments that have been configured for that track.

From the Track Detail screen press the **CENTER** button to return to the Select Track screen.

Press and **HOLD** the **CENTER** button for **3 seconds** to return to the Main screen.

Create Track

Press the **DOWN** button to highlight the **Create/View Track** icon and press the **CENTER** button to create a track.

Press the **DOWN** button to scroll to the Track Name field and press the **CENTER** button to edit the Track Name.

- Change the letters with the **UP** and **DOWN** buttons
- Press the **CENTER** button to move to the next character
- When done with the name press and **HOLD** the **CENTER** button for **3 seconds** to return to the previous screen

Press the **DOWN** button to scroll to the Track Width field and press the **CENTER** button to increase the Track Width. (Note: Width range from approximately 16 FT – 164 FT (5-50M) in 1 Meter increments.)

Press the **DOWN** button to scroll to the **Start Track Learn** field

- Press the **UP [S]** button to Start learning the track
- Press the **UP [S]** button to add a split segment
- Press the **DOWN [F]** button to set up your Finish line
- Press the **CENTER** button for 3 seconds to return to the main screen
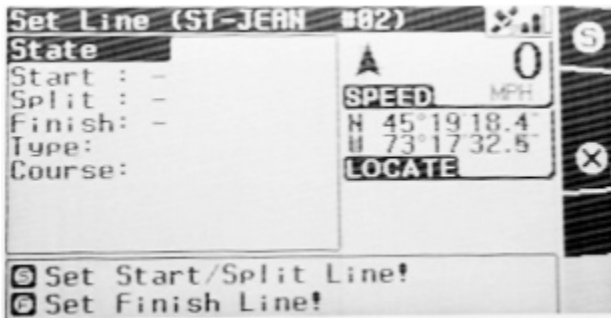
A NOTE about setting your START/STOP line and Segments for lap times: The GPS records your position within 6-10 feet so you should choose a location on the track where you will have the most consistent positioning. Choosing an area where you frequently change your line may result in laps not being recorded.

GPS Status

Press the **DOWN** button to highlight the **GPS Status** icon and press the **CENTER** button to view the number of satellites in your area.

Setup

Press the **DOWN** button to highlight the **Setup** icon and press the **CENTER** button to enter the Setup screen.

Scroll through the Setup Tabs using the **UP** and **DOWN** buttons and press the **CENTER** button to enter into the selected setup.

When you enter the specific Setup screen the corresponding Tab will stop blinking. Scroll through the **Options** by pressing the **CENTER** button.

To change a highlighted Setup **Option** press the **UP** or **DOWN** button.

Press the **CENTER** button to scroll through all of the options to return to the Setup Tab selection. The Setup Tab will begin blinking again.

Press the **UP** and **DOWN** buttons to move to the next Setup Tab you wish to view / change.

Press the **CENTER** button from the Exit Tab to return to the main screen.

Setup Tabs
- Unit – Change speed and distance units, time zone and clock format
- Racing – Set your record order and hold time
- Display – Set the contrast and brightness
- Memory – Display status and option to delete
- Info – Device firmware and hardware version
- Exit – Return to the main screen