GPS TRAILER ODOMETER

GPS TRAVEL DISTANCE LOGGING DEVICE

HMOD1000

AUSTRALIAN MADE

Hummingbird
Electronics

CONTENTS

OVERVIEW

The GPS Trailer Odometer is a permanently mounted device for recording trailer travel distance. It features customisable service intervals, allowing the user to set reminders based on specific dates or distances.

The GPS Trailer Odometer has a colour screen for notifications and monitoring, and has an internal buzzer for audible alerts. It can display two individual trips (Trips A and B).

WARNINGS AND SAFETY INFORMATION

SAVE THESE INSTRUCTIONS — this manual contains important safety instructions. Do not operate the device unless you have read and understood this manual.

DISCLAIMER: Hummingbird Electronics accepts no liability for any injury, loss or property damage which may occur from the improper or unsafe installation or use of its products.

> **⚠ CAUTION:**
> - Do not mount the device where it may obstruct the drivers field of vision.
> - Always observe local laws pertaining to the installation and operation of accessories in a vehicle.

KIT CONTENTS

1.8" DISPLAY
with 12V accessory plug
(cig socket plug)

BOLT & WASHER
Fitted to rear of display

**GPS BULKHEAD
ANTENNA**

QUICK START

INSTALL Antenna with clear view of the sky

1

SET ADMIN Password and Service Distance and Date

3

PLUG into powered vehicle accessory socket

2

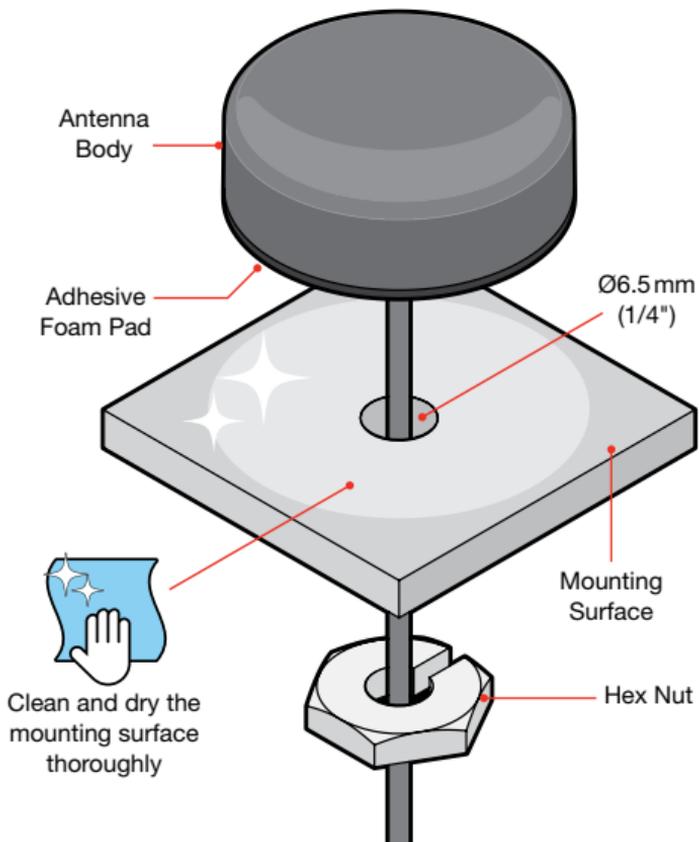**WAIT** for satellite acquisition

4

GO
Begin travelling

5

INSTALLATION — GPS ANTENNA

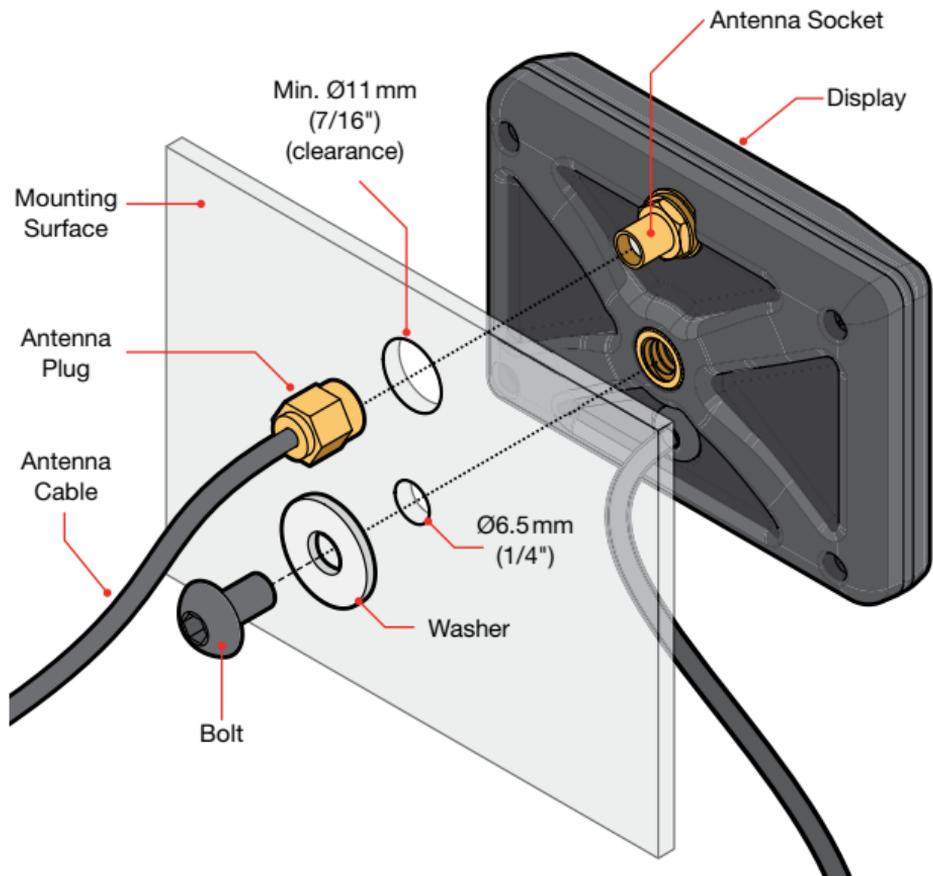These mounting instructions are for a permanent installation.

1. Select a mounting location that meets the following requirements:

   - ✓ Has an unobstructed view of the sky for the best possible GPS signal.
   - ✓ Has a mounting surface thickness no thicker than 6 mm (0.24").
   - ✓ Is not subject to extreme weather or temperatures.

2. Mark the centre for the mounting hole and drill using a 6.5 mm (1/4") drill bit. Clear away any swarf.

3. Carefully clean and dry the mounting face to ensure maximum adhesion.

4. Feed the Antenna Cable through the drilled hole until the Antenna Body is near to the mounting surface.

5. Remove the Hex Nut from the back of the Antenna, then peel off the white backing paper from the Adhesive Foam Pad.

6. Insert the threaded screw mount (on the back of the Antenna) into the drilled hole and press down evenly all over to stick the Antenna down.

7. Return the Hex Nut to the threaded screw mount and tighten gently.

8. Run the end of the antenna cable to the Display mounting location.

Antenna
Body

Adhesive
Foam Pad

Ø6.5 mm
(1/4")

Mounting
Surface

Clean and dry the
mounting surface
thoroughly

Hex Nut

INSTALLATION — DISPLAY

These mounting instructions are for a permanent installation into a panel within the trailer/vehicle.

1. Select a mounting location for the Display. The thickness of the mounting surface must not exceed 3 mm (1/8").

2. Mark the centres of the two holes 20.7 mm (13/16") apart.

3. Drill the mounting hole (lower hole) using a 6.5 mm (1/4") drill bit.

4. Drill a clearance hole (upper hole) for the Antenna Connector using a 11 mm (7/16") drill bit.

5. Feed the Antenna Connector through the top hole and connect to the Antenna Socket near the top of the Display.

6. Remove the bolt and washer from the threaded insert located at the rear-centre of the Display.

7. Attach the Display to the mounting surface using the washer and bolt, then tighten gently using an allen key.

Antenna Socket

Display

Min. Ø11 mm
(7/16")
(clearance)

Mounting
Surface

Antenna
Plug

Antenna
Cable

Ø6.5 mm
(1/4")

Washer

Bolt

CONTROLS

The GPS Trailer Odometer can be configured via the Menu using the three buttons on the Display.

Press ⬤ to access the Menu, then press ⬤/⬤ to navigate the Menu options. Press ⬤ to select an option. To return to the Home Screen, select "**Exit**" from the Menu and press ⬤.
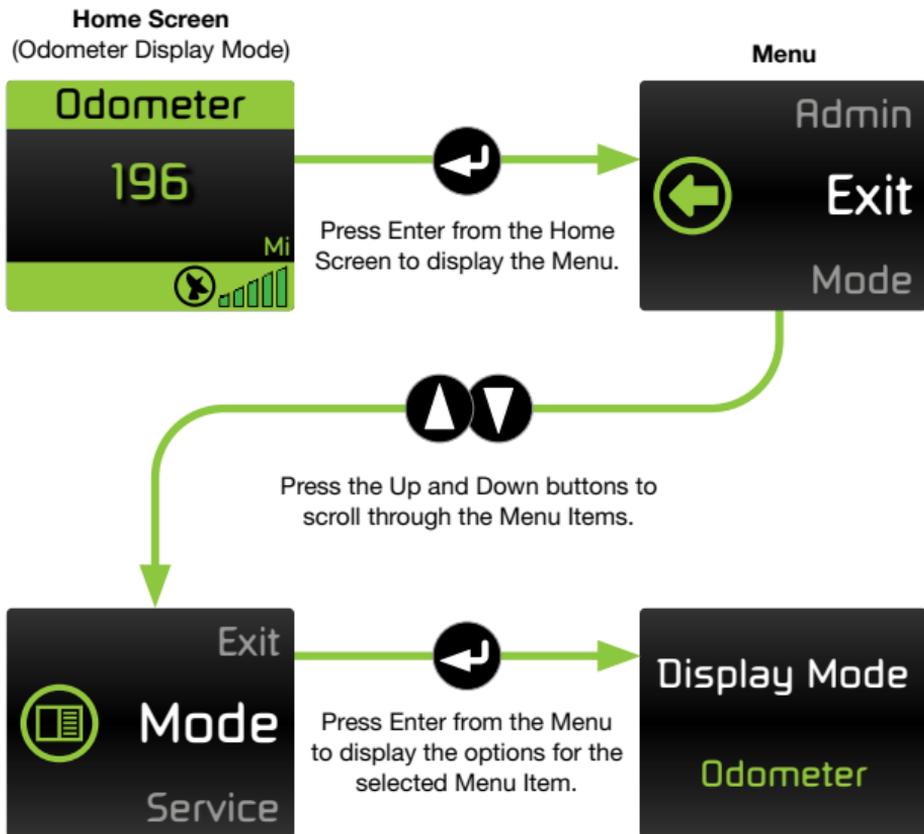
UP/DOWN — Press from within the Menu to navigate the settings.

ENTER — Press from the Home Screen to open the main Menu. Press from the Menu to accept the selected Option.

MENU NAVIGATION

Home Screen
(Odometer Display Mode)

Menu

Odometer

196

Mi

Admin

Exit

Mode

Press Enter from the Home Screen to display the Menu.

Press the Up and Down buttons to scroll through the Menu Items.

Exit

Mode

Service

Press Enter from the Menu to display the options for the selected Menu Item.

Display Mode

Odometer

HOME SCREEN GUIDE

1 **MODE —** The current Display Mode.

2 **ODOMETER —** The total distance travelled.

3 **TRIP A/B —** The distance travelled since resetting Trip A/B.
Press **◐/◑** together from the Home Screen to reset the Trip to '0'.

4 **GPS CONNECTIVITY —** Black icon indicates that GPS is connected.
Alternating red/black indicates then there an insufficient GPS lock and no
distance will be accrued on the odometer.

5 **GPS SIGNAL QUALITY —** Indicates the quality of the GPS signal based on
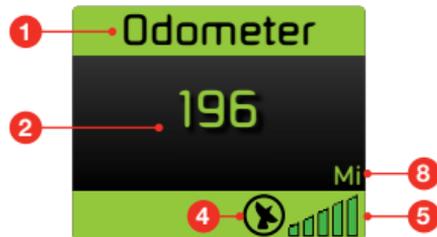the number of satellites being tracked.

6 **SERVICE DISTANCE EXCEEDED —** Appears when odometer reading
exceeds distance set for next service.

7 **SERVICE DATE EXCEEDED —** Appears when odometer reading exceeds
date set for next service.

8 **UNIT OF MEASURE (DISTANCE)—** Displays the unit of measure for distance.
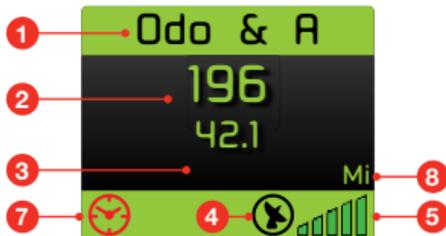Change the Units via **Menu ▶ Units**.

ODOMETER

Displays the total distance.

ODO & A/B

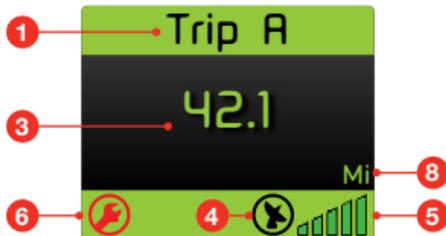Displays the total distance, and the Trip A (or B) distance.

From the Home Screen, press ⬆ and ⬇ together to reset the Trip to '0'.

TRIP A/B

Displays the Trip A/B distance.

From the Home Screen, press ⬆ and ⬇ together to reset the Trip to '0'.

MENU GUIDE

EXIT — Select to exit the Menu and return to the Home Screen.

MODE (DISPLAY MODE) — Select a Home Screen layout; Odometer, Odo & B, Odo & A,Trip B, Trip A

SERVICE (NEXT SERVICE) — Select service to view the current odometer reading, distance set for next service, and the date for next service.

BUZZER (BUZZER MODE) — Change the buzzer operation during over-speed events. Select from Disabled, Beep Continuously, Beep for 5 Seconds, Beep Once.

BRIGHTNESS (BRIGHT.) — Adjusts the brightness of the Display. Press ⏶/⏷ to set a fixed brightness level between 1 (dimmest) and 10 (brightest).

ABOUT — View compliance information.

UNITS (DISPLAY UNITS) — Select the units of measure for distances displayed on the Home Screen.

ADMIN (PASSWORD PROTECTED) — Set Service, Set Step and Set Pass/w. NOTE! Be careful when using this function as it will lock out the menu unless you know the password!

SET THE PASSWORD

You cannot access the Admin Settings unless you know the password. The pre-set password is '00000'.

1. From the Home Screen, press ⏎ to open the menu.

2. Navigate to "**Admin**" then press ⏎.

3. To access the options you need to enter the correct password by pressing ⏶/⏷ to change the number, then press ⏎ to move to the next field. The pre-set password is '00000'.

4. Navigate to "**Set Pass/w**" then press ⏎.

5. Enter the new password by pressing ⏶/⏷ to change the number, then press ⏎ to move to the next field. After the final field input, "**P/W Set!**" will be displayed.

   To cancel the input and return to the previous screen, press ⏶ and ⏷ together.

   NOTE! Be careful when using this function as it will lock out the menu unless you know the password!

Enter password

7 0 0 0 0

Enter password

7 0 0 0 0

SET SERVICE DATE AND DISTANCE

You cannot access the Admin Settings unless you know the password. The pre-set password is '00000'.

1. From the Home Screen, press ● to open the menu.

2. Navigate to "**Admin**" then press ●. If there is a password already saved, you will need to enter the correct password to access the options.

3. Navigate to "**Set Service**" then press ●.

4. The "**Set Service Date**" input screen will be displayed. Enter the new date in the format DD/MM/YYYY. Press ●/● to change the number, then press ● to move to the next field.

5. Next, the "**Set Service Distance**" input screen will be displayed. Press ●/● to set the Service Distance between 0 and 99999. To speed up the entry of long distances, you can change the adjustment increments via the "**Set Step**" option in the Admin menu.

Set Service Date	Set Service Date
12 / 2 / 2025	12 / 2 / 2025

SET THE STEP

'Set Step' sets the increments for the service distance, to make the input of large distances faster.

1. From the Home Screen, press ⏎ to open the menu.

2. Navigate to "**Admin**" then press ⏎. If there is a password already saved, you will need to enter the correct password to access the options.

3. Navigate to "**Set Step**" then press ⏎.

4. Press ⊙/⊙ to change the step increment (100, 500, 1000, or 10,000), then press ⏎ to accept.

Set Step

100

TROUBLESHOOTING

Unit does not power on

Make sure the cable is firmly connected to the vehicle accessory socket, and that the cable is in good condition. If it appears to be OK, see if the socket is faulty by testing the device in another vehicle.

Cannot acquire a GPS/satellite signal

• Make sure the device is mounted where it has a clear view of the sky.
• If your windshield has a film or coating that reduces GPS signals (such as a solar film), move the device to a section of window that does not have film coating.
• Make sure you are not surrounded by tall buildings, and are not in a tunnel or underground carpark/parking lot.

SETTINGS

Display Mode (Mode)	Trip A, Trip B, Odo & A, Odo & B, Odometer
Display Units (Units)	miles, kilometers
Next Service (Service)	Displays service info: Current, Next, Date
Buzzer Mode (Buzzer)	Disabled, Beep Continuously, Beep for 5 Seconds, Beep Once
Brightness (Bright.)	1 to 10
About	Displays product info: Part Number (P/N and Firmware Version (FW)
Admin	Set Service Date: Manual input, DD/MM/YYYY Set Service Distance: 100 to 999999 Set Step: 100, 500, 1000, 10,000 Set Password: 5 digits (default '00000')

TECHNICAL SPECIFICATIONS

Part number	HMOD1000
Mounting	Bolt and Washer
Dimensions:	
Display (W × H × D)	70 × 50 × 18 mm (2.75" × 1.96" × 0.7")
Antenna (W × H)	45 × 17 mm (1.77" x 0.66")
Antenna Cable length	5 m (16'4")
Weight	178 g (6.27 oz)
Display	1.8" Colour LCD (160 × 128 pixels)
Input voltage	9 to 32 VDC
USB compliant	No
Power consumption	Maximum 1.2 W (100 mA @ 12 V; 50 mA @ 24 V)
Distance update rate	10 times per second (10Hz)
Minimum speed	3 km
Satellite acquisition time	< 38 s (50% of the time) < 42 s (90% of the time)
Operating temperature range	−20°C to +70°C (−4°F to +158°F)
Storage temperature range	−30°C to +80°C (−22°F to +176°F)

FCC DECLARATION

This devices complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does not cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio / TV technician for help.

WARRANTY

For full warranty terms and conditions, visit the Warranty page of the REDARC website at **www.redarcelectronics.com/warranty**.

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