

POSI-TRAIL, USER'S MANUAL

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POSI-TRAIL

RECREATIONAL VEHICLE TRAFFIC DETECTION SYSTEM

INTRODUCTION

POSI-TRAIL is a traffic detection unit for Snowmobiles, Quads, and other Off-road vehicles. The unit contains RF reception and broadcasting capability, and thus capable of detecting surrounding traffic within a 600 meters range - and so giving warning to the driver of an off-road vehicle that other vehicles are present in the nearby environment.

With POSI-TRAIL you will not depend on manual signals or need to use your hands to make manual signals. Both your hands will be free to operate your steering handle.

Vehicles equipped with POSI-TRAIL will be aware of the presence of surrounding traffic – the presence of one or more vehicles – of surfacing machines – of emergency vehicles. (The color codes will keep you informed at all times).

WARNING



POSI-TRAIL is an alert device. POSI-TRAIL is intended only to provide specific traffic information to the driver of a recreational vehicle. **This is not a security device**

The detection of "surrounding" traffic is specific to detecting only those vehicles which are equipped with the Posi-Trail product. Any vehicle not equipped with the Posi-Trail product will not be detected.

Depending on the type of environment - open fields, heavy woods, high and low grounds, obstacles, curves, etc. - the detection range of Posi-Trail will vary from 200 meters up to 600 meters.

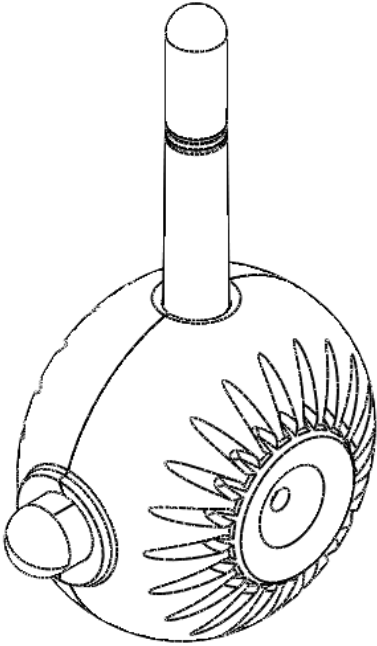
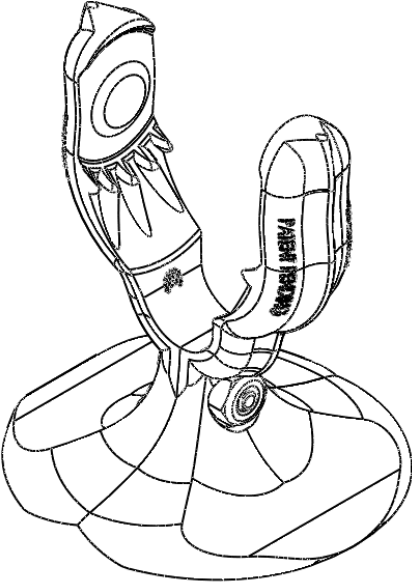

It is our objective that the Posi-Trail product will become a mandatory traffic detection device for all off-road recreational vehicles. This will make driving a much safer sport.



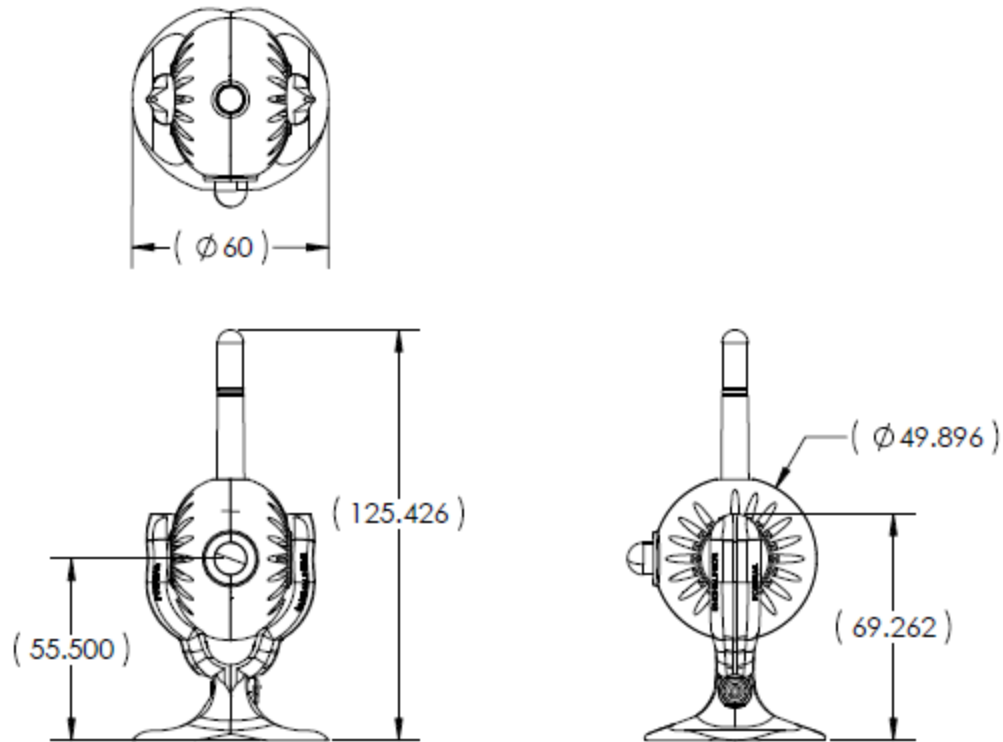
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PARTS LIST

POSI-TRAIL POD ASSEMBLY (1)	POSI-TRAIL LEG ASSEMBLY (1)	USER'S MANUAL (1)
 A line drawing of the pod assembly, showing a spherical base with a vertical cylindrical stem on top. The base has a circular sensor array on its side and a small protrusion on the left.	 A line drawing of the leg assembly, showing a complex mechanical structure with two main vertical legs and a base. One leg has a sensor head, and the other has a cylindrical component with the text "POSI-TRAIL" on it.	 A 3D perspective view of a white manual booklet. The cover has the text "PRODUCT MANUAL" printed on it.

TECHNICAL SPECIFICATION



- Power Supply Requirement: 12Vdc
- Transmitting / Receiving Antenna Type: Integral
- RF Output Power Rating: 7.5 dBm
- Operating Frequency Range: 903 MHz
- RF Output Impedance: 50 Ohm
- Intermediate Frequency: 100 MHz
- Oscillator Frequency: 12.8 MHz
- Modulation Type: FSK Digital Modulation

INSTALLATION INSTRUCTIONS

SNOWMOBILE

- a) The Posi-Trail monitor must be installed within the driver's easy field of vision while driving – on dashboard, console or windshield. **Ensure the antenna is always in an upright position.**
- b) A minimal temperature of 15 degrees Celsius is required for you to perform the installation of the Posi-trail monitor on your vehicle.
- c) Sit in your vehicle in the driving position and choose the best location where to install the Posi-Trail monitor. The location, as much as possible, should have a flat and smooth surface.
- d) The location chosen must be clean – use alcohol to remove any trace of dust, oil, greasy debris, water – and make sure the location is dry after cleaning.

If the location is colder than 15 degrees Celsius you will need to heat the location before installing the monitor.

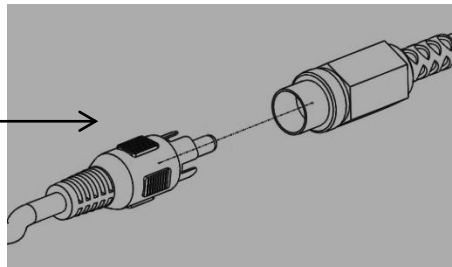
- e) Remove the 3M protection film from the monitor base and apply it with pressure at the chosen location. Maintain pressure on the base for 30 seconds.



The 3M adhesive at the base of the monitor is slightly soft and will accept some minor imperfection on the surface where applied.

If possible, it would be best to allow 24 hours curing time to obtain best bonding of the base.

- f) Connect the RCA male end of the Monitor cable to the RCA 12VDC outlet of your vehicle. If the power outlet of your vehicle is not at 12VDC, you will need a converter. **The monitor must not be connected to a power source that is not at 12VDC.**



RCA connection - 12 VDC

- g) Start your vehicle and verify that the monitor-eye has lit and is showing a green light. **The green light confirms that the monitor is now functional.**



Green

Refer to the web site www.surproinc.com for additional information on Posi-Trail.









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OPERATION

Your POSI-TRAIL will warn you when one or more vehicles (also equipped with POSI-TRAIL) are detected within a distance of 200 to 600 meters from your vehicle, in any direction. The LED light will indicate continuously the traffic activity present in your driving environment. See the table below for the warning light.

LED WARNING LIGHT COLOR	WARNING DESCRIPTION
	Solid green - Monitor active, no other vehicles within surroundings
	Solid red - One other vehicle within surroundings
	Flashing red - More than one vehicle within surroundings
	Flashing red & blue – Presence of snow groomer within surroundings
	Flashing red & purple – Presence of emergency vehicle within surroundings
	Solid yellow – You are in a convoy with no other vehicle present within surroundings (if you leave the convoy for longer than 15 minutes – if you then return – you will be identified as a new vehicle)