SYSTEM OVERVIEW	SYSTEM OVERVIEW
SmarTire for Motorcycles consists of the following components:	To successfully install your SmarTire system, you will need:
	A. Warning Icon D. Front Tire Icon B. On Light E. Rear Tire Icon C. Button F. Temperature Indicator
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	USER GUIDE & INSTALLATION MANUAL
	monitoring system for your motorcycle. This manual will provide you with step-by-step instructions to help you successfully install and operate your SmarTire system.
	Though SmarTire monitors pressure and temp- erature, it is the rider's responsibility to maintain their tires and to react promptly when they receive alerts and warnings. Abnormal tire inflation pressures should be corrected at the earliest opportunity since they can adversely affect the motorcycle's handling characteristics and the tire's structural integrity.
	Please note that for the SmarTire to work on your motorcycle:
SmarTire Systems reserves the right to change the contents of this manual at any time and without notice. The information contained in this manual is proprietary and may not be reproduced under any circumstances without prior written consent from SmarTire Systems Inc. © 2004 SmarTire Systems In. All rights reserved. 710-0022	 Tires must be tubeless Maximum Cold Inflation Pressure must be below 63 psi Rims must be at least 14" in diameter and 3" wide

USING THE SMARTIRE - continued.

 The Low Pressure Alert is set to trigger if the pressure in either tire falls below 25% of the cold inflation pressure. The alert icon will activate and the tire pressure is displayed. Note: The warning icon and pressure deviation will remain illuminated until air is added to the flat tire.



You are operating your motorcycle in a dangerous condition. Stop and make repairs.

• The High Temperature Alert is set to trigger if the temperature in either tire exceeds 176°F (80°C). The alert icon will flash and the tire temperature is displayed.



You are operating your motorcycle in a dangerous condition. Stop and make repairs.

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USING THE SMARTIRE

SmarTire actively monitors and displays tire pressure, pressure deviation and tire temperature. The system will warn you if your tire pressures are too low or tire temperatures are too high in order to reduce accident risk, maximize performance, increase tire life and improve fuel efficiency.

Getting Started

When your motorcycle is started, SmarTire will power up, briefly flash the tire icons and display dashes indicating that it is waiting for tire data. When the motorcycle is ridden over 6 mph (10 kph), SmarTire will begin to receive tire data. When all tire data has been successfully received and the system is operating normally, the front and rear tire icons will remain displayed.



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SmarTire starts to receive tire data only when your motorcycle reaches 6 mph (10 kph). If you want to access tire data while stopped, for example when filling tires at a service station, do not turn off your motorcycle.

USING THE SMARTIRE - continued.

USING THE SMARTIRE - continued.

The Pressure / Temperature Relationship

changes caused by temperature variations

temperature of the tire.

www.smartire.com.

When a motorcycle is ridden, the tires heat up and the actual pressure inside the tire increases. When displaying pressure, SmarTire displays actual

pressure values without compensating for pressure

SmarTire also displays Pressure Deviation, which is the difference between the calculated pressure that

should be in the tire at the current tire temperature

and the actual measured tire pressure. For example, a Pressure Deviation value of -3 indicates that you should increase that tire's pressure by 3 psi. The Pressure Deviation is accurate regardless of the

For a more technical description of temperature

compensation, please visit our website at

Press the button and SmarTire automatically displays inflation pressure, pressure deviation and temperature for both tires. To quickly toggle through the tire data, press the button repeatedly.

Alert Modes

The alert icon will activate whenever tire pressure drops below or tire temperature exceeds the factory preset limits. When the tire condition has been corrected, the alert icon will turn off. In all cases, a tire icon will indicate which tire is affected. SmarTire has three alert modes:

 The Pressure Deviation Alert is set to trigger if the pressure in either your front or rear tire is 15% below or above the temperature compensated cold or recommended inflation pressure (see Pressure / Temperature Relationship). The alert icon will flash and the pressure deviation is displayed.

USING THE SMARTIRE

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be mounted directly opposite the valve stem.

WARRANTY: EUROPE

SmarTire Europe Limited ("SmarTire") hereby warrants that this SmarTire wireless tyre pressure monitoring system shall be free from material defects in workmanship and/or materials until the expiry of twelve months from its purchase by the end user and unlimited mileage, EXCEPT WHERE any such defect has been caused by:

- Improper installation;
 Improper or non-normal use;
 Contact with any corrosive or otherwise harmful substance; or
 Any other act or omission not sanctioned by the Owner's manual or any
- failure to follow any other reasonable instructions given by SmarTire in relation to the system.

The above warranty will be honoured by the retailer from which it was purchased, provided that the owner can provide dated proof of purchase

The retailer shall at SmarTire's cost send any unit which is defective as described in the above warranty to SmarTire at Park 34, Didcot, Oxfordshire 0×11 7WB, England.

In the event that any defect in the unit is covered by the above warranty, SmaTire will replace the affected components free of charge, shipping prepaid. The owner shall be responsible for any labour and installation costs incurred in removing the defective parts and/or installing the replacements.

SAVE AS SET OUT HEREIN SMARTIRE SHALL HAVE NO FURTHER LIABILITY OR OBLIGATION UNDER THE ABOVE WARRANTY. THIS WARRANTY SHALL BE GOVERNED AND CONSTRUED IN ACCORDANCE WITH ENGLISH LAW.

YOUR STATUTORY RIGHTS ARE NOT AFFECTED.

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WARRANTY: USA

This Warranty covers substantial manufacturer's defects in workmanship and mis wan only covers substantiar manufacturies detects in workmanship and materials only. It does not cover any unit that is damaged beyond normal usage, was not properly installed, was subjected to chemical contact, or other acts or omissions not sanctioned by the Owner's Manual.

All components are covered for one (1) year and unlimited mileage following the date of installation.

The SmarTire® warranty will be honoured by any authorized SmarTire® dealer. The owner is required to provide dated proof of purchase. The authorized dealer will determine if there is a warrantable condition associated with materials and/or manufacturing workmanship. If a warrantable condition exists, the component will be replaced free of charge, shipping prepaid. The owner is responsible for any labeled for the statement of th labor and installation charges.

A completed Warranty Claim Form must be sent, postage prepaid, with the defective unit to SmarTire USA Inc., PMB 309, 566 White Pond Dr. C., Akron, OH 44320-1116 USA. Phone: 330-497-0236 or 888-982-3001.

The Warranty does not include any further obligation whatsoever, including but not limited to actual installation of the replacement unit on the customer's motorcycle.

All other Warranties, express or implied, are disclaimed. All collateral agreements, which purport to modify this Limited Warranty are of no effect. The absolute limit of liability is the purchase price of the unit. SmarTire Systems Inc. is not liable for any direct, consequential, indirect, or punitive damages of any kind.

SOME STATES DO NOT ALLOW LIMITATIONS ON THE VALIDITY OF LENGTH OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

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TECHNICAL SPECIFICATIONS

DISPLAY / RECEIVER	
Power Consumption	60 mA
Operating Temperature	-40°F - +185°F
	(-40°C - +85°C)
Operating Humidity	100%
Size	2.5" x 1.65" x 0.9"
	(6.3 x 4.2 x 2.3 cm)
Weight	1.04 oz (29.3 g)
SENSOR TRANSMITTER	
Battery Life	7 years (approx.)
Operating Temperature	-40°F - 257°F
	(-40°C - 125°C)
Size	3.26" x 1.14" x 0.98"
	(8.3 x 2.9 x 2.5 cm)
Weight	1.41 oz (40 g)
Operating Humidity	100%
Frequency	433.92 MHz
Maximum Operating Pressure	78 psi (5.35 bar)
Pressure Accuracy	+/-1.5 psi (0.1 bar)
Activation	Vehicle Motion greater

than 6 mph / 10 kph

SYSTEM SCOPE OF USE & WARNINGS

The SmarTire® System and Tire Maintenance

This system is a sensing device designed to identify and display tire operating data and activate an alert or warning when pressure or temperature irregularities are detected. It is the responsibility of the driver to react promptly and with discretion to alerts and warnings. Abnormal tire inflation pressures should be corrected at the earliest opportunity.

System Installation and Usage

Use of the SmarTire® system requires that it has been properly installed and programmed by qualified personnel according to SmarTire Systems Inc. documentation. This includes the Owner's Manual and any supplementary installation instructions included with system components.

Warnings

- 1. When an alert or warning condition is detected, reduce vehicle speed to an There is the set of the set of
- temperature.
- The low pressure warning indicates that the air pressure has dropped to a selected minimum level.
- 4. The high temperature warning indicates that the contained air temperature has exceeded the selected maximum. A tire temperature buildup can be caused by a number of factors including severe under inflation, hard sustained braking, vehicle overload and sustained high speeds.

Use of Chemicals

Temporary resealing or reinflation products containing internal sealers or propellants in any tire/wheel assembly may adversely affect the operation of the sensor/transmitters.

WARRANTY: CANADA

This Warranty covers substantial manufacturer's defects in workmanship and This war aincy covers soustantian manufacturers a Genetic in work maniship and materials. It does not cover any unit that is damaged beyond normal usage, was not properly installed, was subjected to chemical contact, or other acts or omissions not sanctioned by the Owner's Manual.

All components are covered for one (1) year and unlimited mileage

The SmarTire® Warranty will be honoured by any authorized SmarTire® warranty will be formed by any autorized sharing warrants warrants will be formed ated proof of purchase. The authorized dealer will determine if there is a warrantable condition associated with materials and/or manufacturing workmanship. If a warrantable condition exists, the component will be replaced free of charge, shipping prepaid, if within the applicable warranty period. The owner is responsible for any labour and install tion observed. and installation charges.

This notice must be sent, postage prepaid, with the defective unit to SmarTire Systems Inc., 13151 Vanier Place, Suite 150, Richmond, British Columbia, Canada, V6V 2J1. Phone: 604-276-9884.

The Warranty does not include any further obligation whatsoever, including but not limited to actual installation of the replacement unit on the customer's motorcycle.

ALL OTHER WARRANTIES AND CONDITIONS, EXPRESS OR IMPLIED, INCLUDING WARRANTIES AND CONDITIONS FOR MERCHANTABILITY, DURABILITY OR FITNESS FOR PURPOSE, ARE DISCLAIMED. ALL COLLATERAL AGREEMENTS, WHICH MODIFY THIS SOLE WARRANTY ARE OF NO EFFECT. SMARTIRE SYSTEMS INC. IS NOT LIABLE FOR ANY DIRECT, CONSEQUENTIAL, INDIRECT OR PUNITIVE DAMAGES. THE ABSOLUTE LIMIT TO LIABILITY IS THE PURCHASE PRICE OF THE UNIT.

REPLACEMENT PART NUMBERS

Need to replace a part of your SmarTire System? Check the list below to identify the part number of the component you need.

Display / Receiver: USA	084.9001
Display / Receiver: Europe	085.9001
Display / Receiver: UK	086.9001
Display / Receiver: Canada	000.0000
Sensor / Transmitter	062.1005
Strap	062.1002
Valve Bridge	062.1006
Mounting Kit (motorcycle)	062.1007

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FCC NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the find device complete wher art 10 of the recenters. Operation's 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.

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 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.

Changes or modification to this device without the express approval of SmarTire Systems Inc, may void the user's authority to use this device.

EUROPEAN REGULATIONS

This device complies with all European Electromagnetic compatibility regulations (95/54/EC and EN 300 220-1). The equipment has been tested and found to comply with the above regulations, and in addition it meets the requirements for low powered transmitters/receivers as defined by the relevant radio approval authority. The regulations are designed to provide reasonable protection against harmful interference or susceptibility. Changes made to this device without the express approval of SmarTire Europe Ltd. may void the user's authority to use this device.