

## SmarTire LF Initiator - Operating Instructions

The SmarTire LF Initiator is a wireless service tool that facilitates the learning of sensor ID numbers into the receiver during system setup on a vehicle. The Initiator works in conjunction with the Commercial high pressure sensors\*.

\*LF Initiator is not compatible with Low Pressure Sensors (SmarTire for Passenger Car products that measure to a maximum of 65 PSI).

### Product Configurations

<b>SmarTire Part No.</b>	<b>Description</b>	<b>Product Application</b>
090.0006	Standard Function LF Initiator - Initiate, De-Energize, Learn	Dealer tool for RV and Commercial installations

### Product Functions

<b>BUTTON</b>	<b>FUNCTION</b>
<b>Initiate</b>	This function is used after the sensors are installed to confirm that the sensor was programmed properly. Pressing this button next to the sensor causes the sensor to transmit its ID, pressure and temperature readings.
<b>De-energize</b>	This function should only be used when the sensors are taken out of the tire and need to be shipped back to the supplier. Pressing this button next to the sensor causes the sensor to stop transmitting.
<b>Learn</b>	This function is used at the time of sensor installation. Pressing this button next to the sensor causes the sensor to transmit its unique ID number for the purpose of programming the Receiver.

### LED Functions

<b>LIGHT COLOR</b>	<b>FUNCTION</b>
<b>Green</b>	LF Initiator is working properly.
<b>Red</b>	LF Initiator is not working properly. Contact SmarTire regarding repair or replacement.
<b>Orange</b>	Battery is low.

## Activating the LF Initiator

The Initiator is powered with a 9 Volt battery that is installed by opening the battery access panel on the back. An ON / OFF switch is located on the right side and this should be pushed upward to turn the Initiator “ON” and downward to turn the Initiator “OFF.”

## Using the LF Initiator

The Initiator has a transmission range of approximately 2 feet. To ensure proper reception, the Initiator should be within this transmission range and the Initiator must be held facing the sensor for at least 5 seconds after the button is pressed. Sensors are normally located adjacent to the valve’s location (figure 1). Hold the Initiator against the tire and point it toward the sensor location from a position slightly outside the rim flange (figures 2 and 3).



Figure 1



Figure 2



Figure 3

**NOTE:**

*Normally dual tire assemblies are installed with their valves located 180 degrees from each other. This means that the sensors will also be located 180 degrees from each other and initiating either the outboard or inboard sensors will not cause the other sensor to respond because of the mass of the wheel and hub separating the two locations. The Initiator held against the sidewall of the outboard tire / wheel assembly and pointed toward the location of the sensor on the inboard tire / wheel assembly will be within LF field detection range.*

## Programming Newly Installed Sensors

1. Install the sensors on the wheels as described in the SmarTire for RV Installation Guide, and then install all of Tire / Wheel assemblies, onto the vehicle;
2. Power up Receiver and Full Function Display (FFD) by switching ignition on and setting the Receiver into 'LEARN' mode as described in the FFD User's Manual;
3. On the Display, select the desired tire position. The outline of the wheel position to be programmed will flash;
4. Position the Initiator against the tire's sidewall, press the LEARN button and hold in that location for at least 5 seconds, as described in the previous section. The Receiver registers a signal reception from that sensor by showing a filled in wheel icon on the Display;

**NOTE:**

*For the inboard locations of dual tires, the initiator can be held against the outboard tire sidewall in line with the position of the inboard sensor to initiate the transmission without having to reach around the outer tire / wheel assembly;*

5. If programming more sensors in the system, select the next tire location on the FFD and repeat step #4 until all sensor ID numbers and their appropriate locations on the vehicle have been learned by the Receiver;
6. Exit the Receiver 'LEARN' mode by pressing the "Set" button on the Display;

**NOTE:**

*If an 'ERR' message is displayed together with flashing tire locations, those indicated locations have been programmed with the same sensor ID numbers. In this case, press the TIRE button on the FFD to re-enter the Receiver 'LEARN' mode and reprogram the flashing sensor locations;*

7. Press the "Set" button again to completely exit from the receiver programming modes and save the sensor ID numbers to the Receiver memory;

## Verifying Correct Installation

To check correct ID programming of the receiver, power up the receiver and utilize the INITIATE button on the Initiator as described in step #4 to cause each sensor to transmit. Alternatively, drive the vehicle above ~ 6 mph. If any locations are not being received, it is likely that the programmed ID number is incorrect and programming the sensors using the 'LEARN' function will need to be repeated for those locations.



## FCC NOTICE

This device 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. 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 modifications to this device without the express approval of SmarTire Systems Inc. may void the user's authority to use this device.

### US Warranty

This Warranty covers substantial manufacturer's defects in workmanship 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 Operating Instructions.

All components are covered for one (1) year following the date of purchase.

The SmarTire warranty will be honored 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 labor and installation charges.

Telephone 604-276-9884 to obtain a Return Material Authorization (RMA) number. Send the postage prepaid package with the defective unit and RMA number to: SmarTire USA Inc., PMB 309, 1700 W. Market Street, Akron, Ohio, USA, 44313.

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 OR 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.

### Canadian Warranty

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

All components are covered for one (1) year following the date of purchase.

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, if within the applicable warranty period. The owner is responsible for any labor and installation charges.

Telephone 604-276-9884 to obtain a Return Material Authorization (RMA) number. Send the postage prepaid package with the defective unit and RMA number to: SmarTire Systems Inc., 13151 Vanier Place, Suite 150, Richmond, British Columbia, Canada, V6V 2J1.

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.

### European Warranty

SmarTire Europe Limited ("SmarTire") hereby warrants that this SmarTire LF Initiator shall be free from material defects in workmanship and/or materials until the expiry of 24 months from its purchase by the end user, EXCEPT WHERE any such defect has been caused by:

1. Improper installation;
2. Improper or non-normal use;
3. Contact with any corrosive or otherwise harmful substance; or
4. Any other act or omission not sanctioned by the Operating Instruction 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 their own cost return any unit suspected to be defective. If the unit is subsequently found to be defective then the carriage costs shall be refunded in full. Send the postage prepaid package with the defective unit to: SmarTire, Park 34, Didcot, Oxfordshire OX11 7WB, England.

In the event that any defect in the unit is covered by the above warranty, SmarTire 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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