



## Valve Transmitter Installation Guide

SMARTTIRE®

710-0013

### PREPARATION

The wheel must be 15" or larger to use valve mount transmitters (Fig.1). Otherwise strap mount transmitters (Fig.2) should be installed.

Remove the plastic colored washers from the installation kit and match these with the corresponding color-coded transmitter.

Remove the tire from the wheel.

Discard the existing valve.

Find the new valve included with the SmarTire kit and clean the valve hole with a clean cloth. Determine if the outside inner surface of the valve hole has a rounded or flat surface. A rounded surface requires the beveled washer (See Fig.3).

### SMARTIRE VALVE TRANSMITTER PARTS

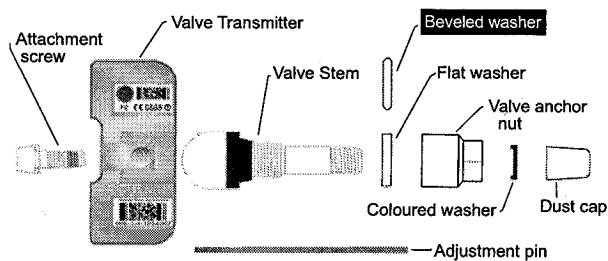


Fig.3

### TOOLS REQUIRED

Tools required to install valve mount transmitters:

- T20 TORX bit
- 11 mm Socket
- Torque wrench
- Adjustment pin (provided with valve set)

### VALVE INSTALLATION GUIDELINES

1. Fit the transmitter's circular face to the round valve stemhead and hand tighten the attachment screw two turns. Insert the valve stem into the wheel valve hole with the appropriate washer (flat or beveled). Hand tighten the valve anchor nut. The valve adjustment hole must be visible on top. (See Fig.4)

*Note: The attachment screw can only be used once due to the thread-locking adhesive.*

2. Confirm that the valve transmitter will fit on this particular wheel. Pivot the transmitter, checking that both contact pads rest in the drop centre well of the wheel and that there is a gap at the top of at least the thickness of the adjustment pin (See Fig.4). If the transmitter cannot be made to sit flat the SmarTire strap mount transmitter must be used instead (See Fig.5).

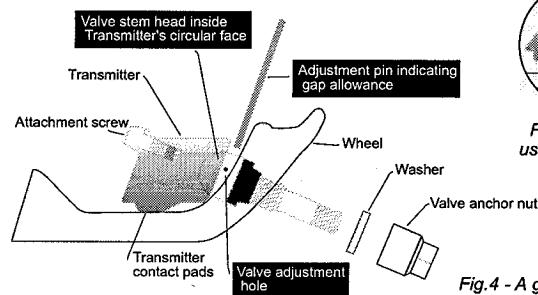


Fig.5 - No fit - use Strap Mount transmitters

3. Use the 11 mm socket and torque wrench to tighten the valve anchor nut to 35.4 lbf.in (+/- .44) or 4 NM (+/- .05). Use the valve adjustment pin to ensure the valve stem does not turn while tightening. (See Fig.6)

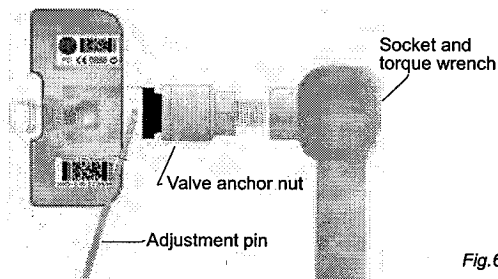


Fig.6

4. Hold the transmitter so that it sits flat in the drop centre well of the wheel. Use the T20 TORX bit and torque wrench to tighten the transmitter attachment screw to 31 lbf.in (+/- .44) or 3.5 NM (+/- .05). Use the valve adjustment pin to ensure the valve stem does not turn while tightening. Thread the corresponding colored washer on the valve stem to match the colored dot on the transmitter. Screw the dust cap on the valve. (See Fig.7)

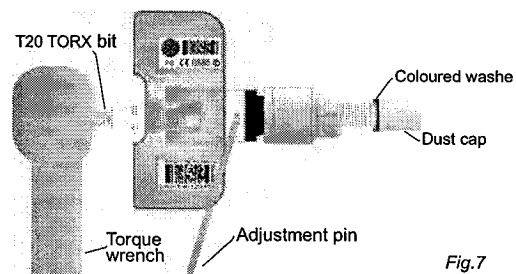


Fig.7

## MOUNT THE TIRE ONTO WHEEL

- When mounting the tire, avoid damaging the transmitter by positioning the wheel with the transmitter located 90° in front of the bead guiding shoe. The wheel is set to rotate clockwise. (See Fig.8)

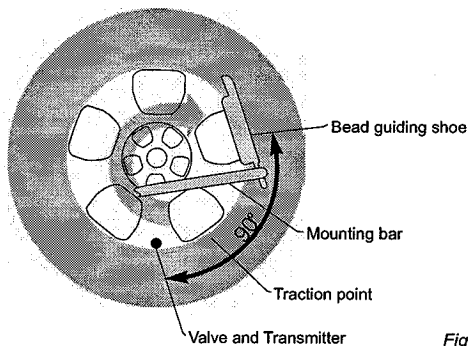


Fig.8

- Set the lubricated tire on the wheel with its traction point 3" (8 cm) before the transmitter. Use the bead guiding shoe to guide the rest of the bottom bead over the flange and onto the rim. See Fig.8.

*Note: If the tire slips several inches on the wheel during the installation process, stop and reposition the transmitter/wheel back to 90° in front of bead guiding shoe.*

- With the bottom bead in place, again position the wheel with the transmitter located 90° in front of the bead guiding shoe. Depress the bead into the drop centre so that the traction point is 3" (8 cm) before the transmitter. Use the bead guiding shoe to guide the rest of the top bead over the flange and onto the rim.

*Note: If the tire slips several inches on the wheel during the installation process, stop and reposition the transmitter/wheel back to 90° in front of bead guiding shoe.*

- Inflate the tire to seat the bead, deflate completely and then inflate the tire to manufacturer's recommended cold inflation pressure.

- Balance the wheel.

- Install the tires on the vehicle according to the default color-coded positions (See Fig.9).



Green - right front



Blue - right rear



Red - left front



Yellow - left rear

Fig.9



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## DE-MOUNTING THE TIRE WITH TRANSMITTER INSTALLED

- Remove the tire/wheel assembly from vehicle and deflate completely. Orient the wheel to place the transmitter 180° from the pressure shoe for unseating both the top and bottom beads so that the pressure shoe or tire bead will not damage the transmitter. (See Fig.10)

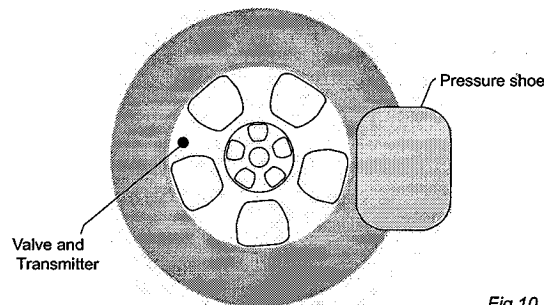


Fig.10

- When lifting the top bead over the rim flange, orient the wheel to place the transmitter at the center of the bead guiding shoe. Remove the top bead. Orient the wheel once more with the transmitter at the center the center of the bead-guiding shoe and remove the bottom bead. The transmitter should be checked for correct positioning and fit prior to tire replacement. (See Fig.11)

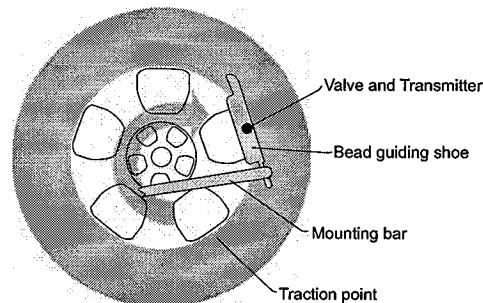


Fig.11

## NORTH AMERICAN 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 Owner's Manual.

All components are covered for one (1) year and unlimited mileage 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, 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 and address details to send the postage prepaid package with the defective unit and RMA number.

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

FURTHER WARRANTY INFORMATION SPECIFIC TO CANADA AND THE U.S. CAN BE FOUND IN THE SMARTIRE OWNER'S MANUAL.