

Installation Notes for VX21 Road Sensor.

Place a circular piece of duct tape over the top of the VX-21 Road Sensor covering the top of the sensor completely.

Fig A) Core Drill hole in center of lane. *(use core drill bit with a 4.75" outside diameter, and a 4.5" inside diameter)* Drill a core hole 3.75" deep. Use blow torch to dry hole. Use a vacuum to clean out hole.

Fig B) Drill Sub Temp Probe hole 16.5" deep into the bedrock of the road near the edge of the bottom of hole. *(use a .5" diameter drill bit)*. Use Vacuum to clean out Sub Temp Probe hole.

Fig C) Saw cut a groove in the pavement from the hole 7.5"long .25" wide. Taper the depth of the saw cut from the hole to the end from 2"deep to .25" depth. *(see fig. C-2)*. Place .5" of levelling sand in the bottom of hole, make sure you do not put any in the Sub Probe hole *(place Duct Seal over hole)*. Using the Levelling Plug ensure that the top of the VX21 is .25" under the surface of road. *(see fig. C-3)*. Remove Duct Seal from top of hole and place VX21 sensor Sub Temperature Probe tip in the Sub Temperature hole and add .25" *epoxy to the bottom of core hole. As *epoxy is setting in the Sub Probe Temperature hole add more epoxy to the bottom of core hole.

Fig D) Place VX-21 into the core hole making sure the top of the VX-21 is level with the top of the road surface. *(make sure you hold the surface temperature probe out from the bottom as you place VX21 into hole.)* Lay the Surface temperature probe in the saw cut groove using Duct Seal to hold the Surface probe in the groove. Make sure that the VX21 is level with the top of the road surface. Place epoxy around the sides of the core hole next to the VX21 sensor. Fill to the top of the road surface. Fill the surface probe saw cut groove with epoxy. Wait 3-5 minutes for the epoxy to start to set up, remove the duct tape from the top of the sensor exposing the surface status probe located on the top of the VX-21.

Fig E) Cutaway view of properly installed VX21 road sensor.

**(Use Resign Designs - part number "Urethane 104-46" Epoxy)* This can be ordered from MH Corbin Inc. 8355 Rausch Dr. Plain City Ohio 43064 (614) 592-7430. Or by calling Ellsworth Adhesives at (937) 938-0987. This epoxy is designed to set up in 3 to 5 minutes at 25C or 10 minutes at room temperature.

DATE: 4-10-2014	M.H. CORBIN INC. 8355 RAUSCH DR. PLAIN CITY, OH 43064	VX 21 ROAD SENSOR	INSTALLATION NOTES FOR THE VX21-2 ROAD SENSOR
REV:			