



# Installer Briefing Check List

Installer	
Installer Contact	

Phone Number	
System Controller Model	

## Installation Check List

### 1. Proper Drainage:

Proper drainage must be installed for system to work properly and warranty to be honored. Verify that the drainage system is working properly by pouring water, 1 gallon, into the installed base can of each fixture, and checking that the underlying drainage is absorbing the water. Water should drain from base can within 3 - 5 min. This should be done after the core drilling or trenching, but before the fixture is installed and the concrete is poured. The water absorption test is done prior to pouring concrete so that, if the drainage system is not performing properly, it can be repaired without having to remove and then re-pour the concrete.

### 2. Base Can and Fixture Alignment:

Proper positioning of the base can and fixture is very important in ensuring the optimal visibility of the in-pavement lighting system. Base can should be flush with the grade of the road and parallel to the traffic lane (not necessarily perpendicular to the crosswalk lines).

### 3. Fixture Wiring:

The drivers used in the fixtures are polarity sensitive and will not work if the fixture wiring is reversed. Follow the wiring instructions in the installation manual. If a fixture fails to illuminate, check the wiring to the connector pigtail and make sure it is connected properly. Note: White connector wire should be connected to the red cable wire (+12 VDC). Black connector wire connects to black cabling wire (Return).

### 4. Fixture Field Check:

A fixture field test cable, TSC# MI-AFTA, is provided with each controller for checking fixtures in the field. One end of the field test cable has a power plug. The other end has a fixture socket. The power plug may be inserted into any standard 12 VDC vehicle accessory socket. Fixtures may be checked by plugging the fixture into the socket end of the field test cable. In the unlikely event that the fixture does not light, call your TSC dealer to arrange for a replacement fixture.

### 5. Optional AC AUX Output:

If your system has the optional AC AUX Output, do not connect the fixture cabling to this terminal block. The fixtures are controlled by a low voltage DC control signal and will be damaged by connecting them to the 120/240V AC AUX Output terminal block located in some of the controller enclosures.

### 6. Protective Plywood Cover:

Base cans are shipped with a protective plywood cover. The cover is used to protect the flange ring and keep debris out of the base can during installation, whenever the fixtures need to be removed for routine maintenance, during road resurfacing or during fixture shipment. After installation, fixture covers should be marked, "DO NOT DISCARD", and stored until needed.

### 7. System Installation Materials:

Necessary items that are not provided by TSC, but may be needed to complete the project include, but are not limited to: drain rock, filter fabric, concrete, schedule 40 PVC pipe and fittings/couplings, 10 AWG cable for the fixtures, cable for the activation devices (typically 18 AWG), poles/posts for activation devices/signs, duct sealing compound, traffic loop sealant, 3M or equivalent waterproof connectors, marine grade anti-seize grease and base can alignment jigs. Some of these items may be available through TSC, or readily available from local sources.

### 8. Pre-Installation Setup and Technical Support Center Contact Information:

We recommend that you wire up and test the system in the shop before taking it to the field for installation. This will allow you to become familiar with the system wiring prior to field installation. If you have any questions or concerns call the TSC Technical Support Center before starting the field installation. The Technical Support Center is open M-F, 8:00 am to 5:00 pm PST. Call toll free: 888-446-9255. All calls are logged in by the system controller's serial number, so please have your serial number ready when you call.