

Using this Guide

Some Tiffin RVs have first-generation TriMark keyless entry hardware installed. Unfortunately, these devices are no longer in production, which means that finding exact replacements is nearly impossible. Tiffin and TriMark have worked together to provide an adaptor solution that makes it easier to upgrade legacy systems to the more reliable keyless entry systems in production today. Most of the upgrade is as easy as plugging in matching connectors, but there are a couple of places that can be more tricky. This guide provides a walkthrough for the installation.

Finding the Control Module

No original keyless entry components (keypad, key fobs, or control module) are compatible with the new installation, so all components will need to be replaced. The control module is typically located in a few locations:

- The first exterior compartment towards the rear of the RV from the entry door behind a false wall.
- The top of the second exterior compartment towards the rear of the RV from the entry door between the frame rails.
- Behind a panel near the entry door stairs inside the RV about 5 feet above the first step.
- ***DIFFICULT*** Deep within the dashboard, requiring partial dashboard removal to gain access.

It is recommended that Tiffin be contacted to determine exactly where the control module is located in the RV.



Replacing the Control Module

The adaptor harness provided by Tiffin should exactly mimic the connectors used on the original controller. The original controller is a two-part system, with both modules mounted together. The replacement is a condensed version of both original controllers, with everything neatly packaged in one much smaller container.

Disconnect the wiring from the original controller one at a time, and immediately connect it to the new adaptor harness. Each connector on the adaptor is labeled and/or the wires color coded to match the correct connector. The **ONLY** exception is the 4-pin keypad connector, which has all four wires in reverse order with respect to the RV's original wiring.

Once all connectors have been transferred to the adaptor harness, the original controller can be removed and discarded. Do not connect the new control module to the adaptor harness yet.

Replacing the Keypad

The new keypad uses the exact same 4-pin connector as the original keypad, but the internal architecture and programming is very different. Also, depending on the type of keypad being installed, there may be an extra 9-pin connector. This will not be used, so it can be ignored throughout the installation.

Simply unplug the original keypad from the 4-pin connector and plug the new keypad into the same connector.

Do not mount the keypad back against the RV's wall just yet. The wiring between the new keypad and the new control module must be modified to accommodate the new communication protocol that the upgraded system will be using. Refer to the schematic on the next page for instructions on how to modify the wiring.

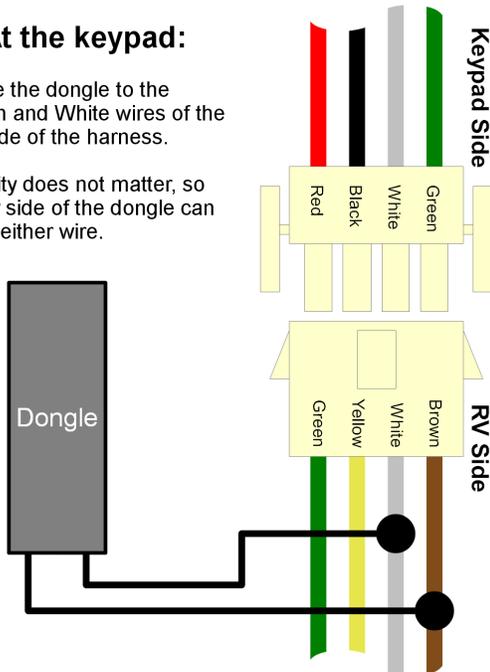
Once the Dongles have been installed, the keypad can be mounted back to the wall, the control module can be plugged into the adaptor harness, and the system is ready to be tested.

Tiffin CAN Dongle Installation Schematic

1) At the keypad:

Splice the dongle to the Brown and White wires of the RV side of the harness.

Polarity does not matter, so either side of the dongle can go to either wire.



Instructions:

For the most part, installing the adapter harness and keypad are as easy as plugging in the matching connectors. However, due to differences with how this system communicates between the keypad and the module as compared to the original, two new “dongles” must be manually spliced into the harnesses.

1) At the keypad, there are 4 wires. Two of them are “network” wires, which need to be connected together with the dongle. Splice it in as shown.

2) At the new control module, there is a connector that has 4 wires in a 2x2 block. Splice the dongle to this adapter harness as shown.

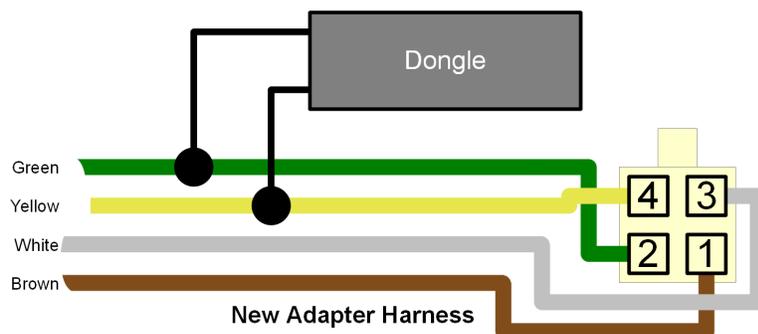
After these new components are spliced into your new harness, your modernized keyless entry system should function exactly like your original system.

2) At the module:

Splice the dongle to the Green and Yellow wires of the 4-Pin connector on the new adapter harness.

Polarity does not matter, so either side of the dongle can go to either wire.

IMPORTANT: The wire colors of the original RV harness and the adapter harness do not match. This is ok as long as you are splicing the dongle to the new adapter harness, not the original RV harness.



Tiffin TriNET-to-CAN Upgrade Guide



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