



Technical Service/Warranty Department
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CHILD CHECK-MATE™ SAFETY SYSTEM

Installation Instructions Manual Conduit Kit

*Use as a supplement to our **Installation Training Video**.*

CHILD CHECK-MATE SYSTEMS INC.
U.S. Patent #5874891

Revised January 2 2012



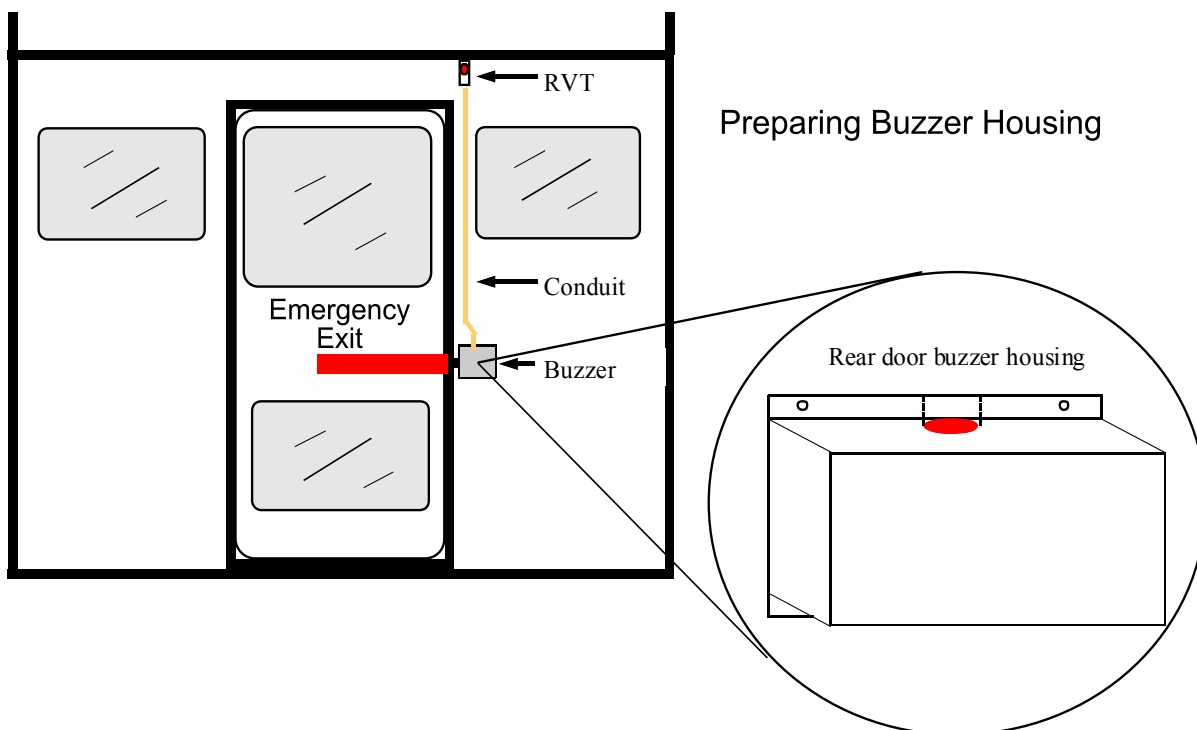
Thank you for choosing the **Child Check-Mate Safety System™**. Our product consists of two main components, the *EPI Alarm Unit* and the *Rear Vehicle Transmitter & Reset Button*. The *EPI Alarm Unit* includes a six-pin harness that mounts at the front of the bus near the driver, while the

Conduit Kit-Model RVT-2Wc

The wires can extend out of the ‘bottom’ of the unit using the optional *Conduit Kit-Model RVT-2Wc*, available from Child Check-Mate™. The RVT is mounted to the top right of the rear emergency door-frame, and is connected to the rear-door buzzer through the conduit.

The proper mounting procedures for conventional buses are as follows:

1. When using a conduit mount, prepare the buzzer housing as shown below.
2. On the latest models for 2W-RVT's there will be 3 wires. The black wire is not needed as this is for grounding purposes. The RVT will get it ground through the metal body of the RVT. Remove the Black Wire.
3. With the two wires running out the ‘bottom’ of the RVT, mount the unit to the door-frame with the three self-tapping screws (supplied).
Note: To ensure a good grounding, the lock washer supplied must be installed between the bus panel and the Rear Vehicle Transmitter.
4. Measure the desired length of conduit to be cut. Remember to allow for a half inch for the conduit to be inserted into the buzzer housing and the RVT and for any potential bends.
5. Once the conduit has been cut, feed the two wires through the conduit, pushing it about 1/8th of an inch inside the Rear Vehicle Transmitter. Do not force the conduit too far into the RVT.
6. Bend the conduit along the chosen path, securing it to the bus with the ‘P’ clips & screws (supplied). The screw holes will require pre-drilling due to the door-frame’s thickness.
7. Refer to “*Connecting the RVT Wires*” instructions on the following page.



Preparing the Buzzer Housing

Note: The required tools for the buzzer housing's cut-away portion will vary depending upon whether the housing is made from plastic or metal.

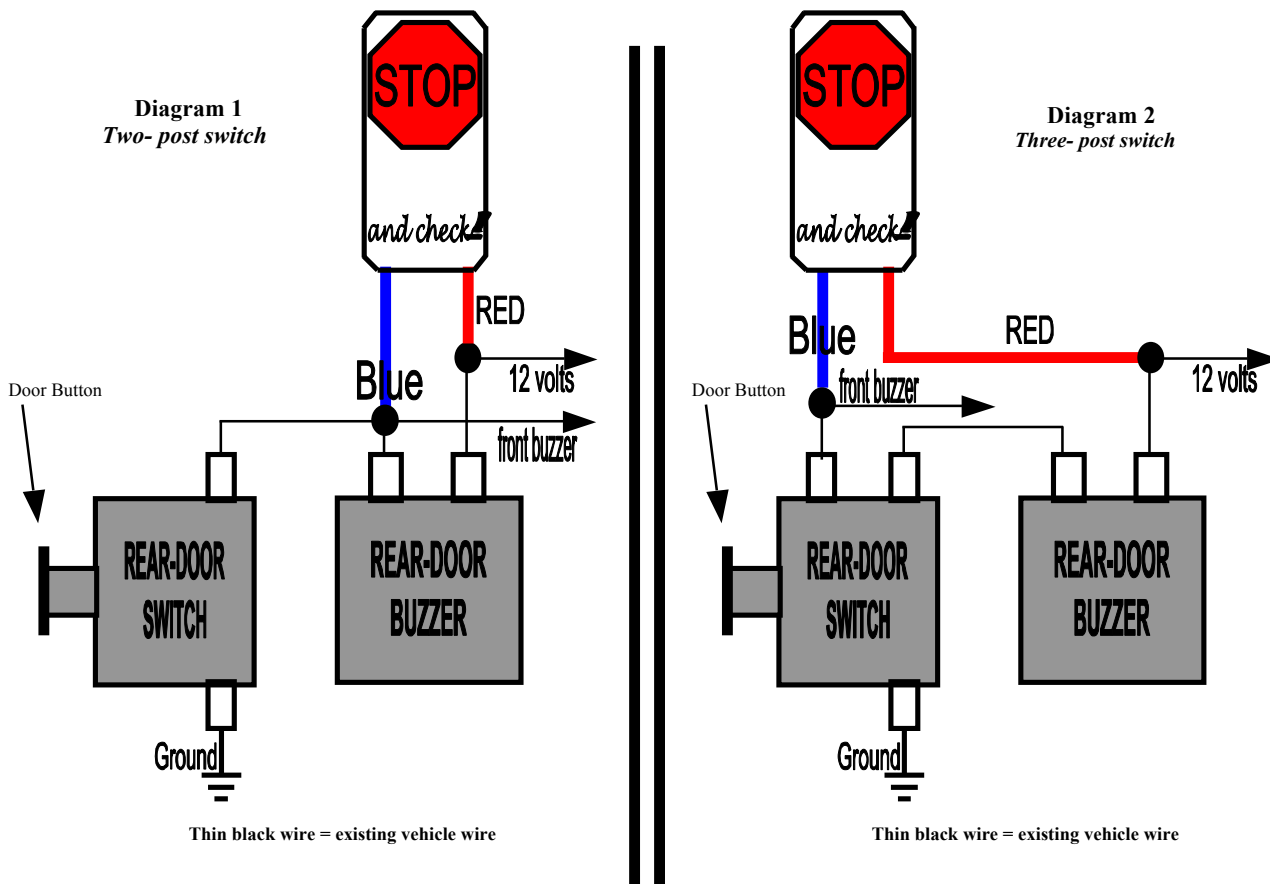
1. Drill a hole large enough for the conduit on the top of the housing. The hole should be close to the middle of the housing, tight against the mounting flange of the housing. *See area marked in red on housing diagram above.*
2. Cut away the mounting flange so it will meet up with both sides of the hole drilled as shown by a dotted line in the housing diagram. This cut-out will allow for the future removal of the buzzer's housing without disturbing the conduit.

Connecting the RVT Wires

- GROUND SIDE OF BUZZER - **BLUE WIRE**
- 12 VOLT IGNITION OF BUZZER - **RED WIRE**



The Rear Vehicle Transmitter is wired to the closest emergency buzzer / switch assembly, typically located at the rear-emergency door or window. Refer to the following diagram to determine which switch, the **two** or **three**-post, is in use.





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The Child Check Operation Check

1. Upon starting the bus, The EP1 will emit an audible noise indicating that the system is now operational.
2. Close the front door and turn on the master switch. Now open the front door and the overhead lights will flash. Expect an audible sound from the EP1 as the Red Lights are activated.
3. Close the front door and the overhead lights will stop flashing.
State of California: In order to comply with State Regulations, the Brown can be connected to the marker lights. This feature allows for the driver to safely escort young riders off the bus.
4. Turn the ignition off. The system's alarm, a high-pitched beep, will begin to sound. After approximately eight seconds, the bus horn will begin to sound on and off.
5. Turn the ignition back to the 'ON' or 'ACCESORY' position; the alarm can be silenced in *either* position. An audible tone will sound approximately every 30 seconds, for a total of three cycles, prompting the driver to perform their Child Check.
Note: The EP1 system's deactivation process is designed so that the ignition key *must* remain in the 'OFF' position for at least **one second**, before switching to the 'IGNITION' or 'ACCESORY' position.
6. Proceed to the rear of the bus and depress the Reset Button for at least **three seconds**. You will hear the deactivation signal, a rapid chirping sound. The system has *now* been deactivated and the key can be removed safely from the ignition.

Dome Light Option

1. Turn on the ignition to illuminate dome lights for 20 seconds.
2. Stepping on the brake pedal should trigger an audible sound.
3. Once the system has been activated, turn the ignition off and the dome lights will illuminate.
4. To deactivate the system, turn ignition to the 'on' position. The dome lights will remain illuminated proceed to the rear of the bus to deactivate the system.

*Need further installation assistance?
Have questions about our other products?*

Contact us directly by:

■ **E-mail:** ccms@childcheckmate.com

*(To better serve you, please put **Installation** or **Products** in the subject line.)*

■ **Phone:** Toll Free 1-877-494-8222.