

## Switch Hub Module (SHM) Troubleshooting Guide

This Carolina Thomas Bus Buzz is two parts and intended to provide you with information on how to troubleshoot the C2 Switch Hub Module. This component is commonly rejected on warranty claims as it is misdiagnosed.

If you use and learn this you can be the sharpest technician in your county. This Bus Buzz should accompany troubleshooting spreadsheet as these are photos to assist your efforts on component identification.



Dash Awake – LED's lit

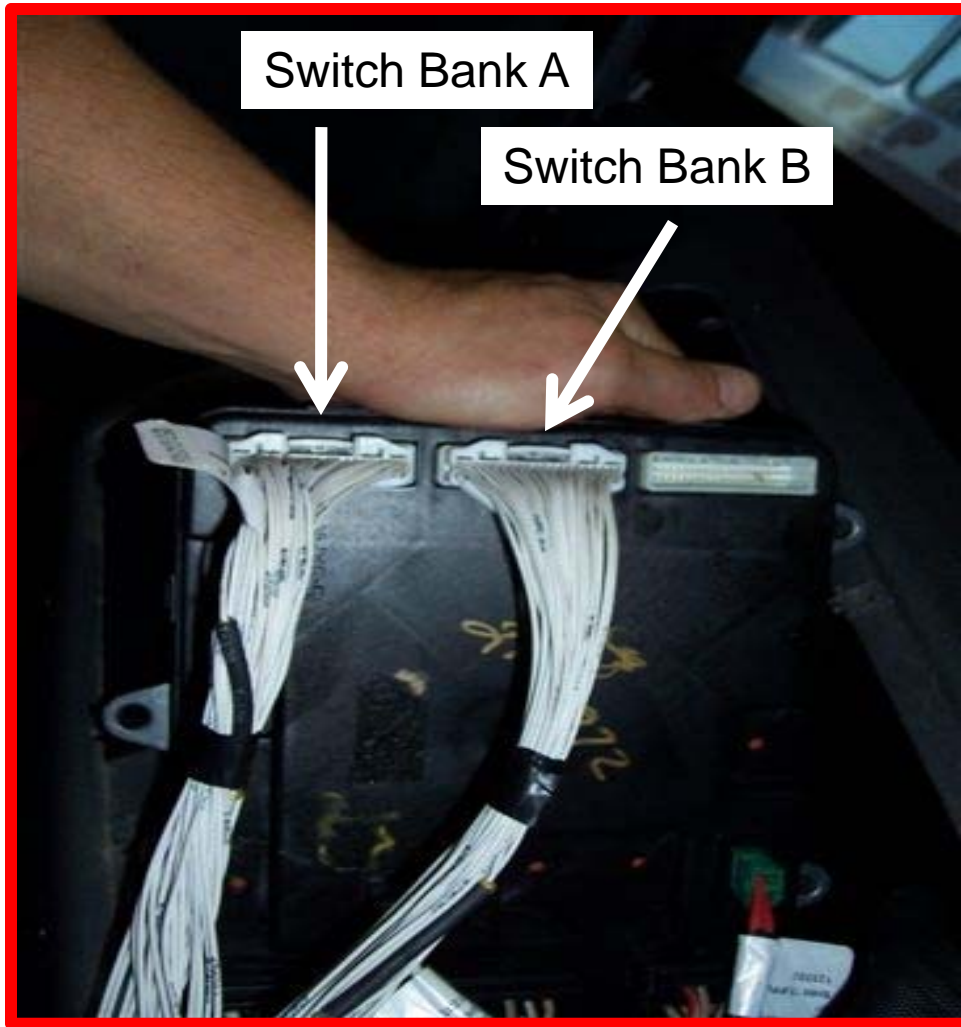
17401 miles  
13.2 volts

Dash Awake  
LED's lit

Dash Asleep  
No LED's lit



Photo 1: Photos show a C2 dash that is awake and one that is asleep.



**Photo 2: Photo shows the Switch Hub Module (SHM) lifted up out of driver's switch cabinet. Two switch bank harnesses are shown and both are still plugged into SHM. Each one of these looms goes to a row of driver's switches.**





**Photo 3: Photo shows the back side of driver's switch bank and the looms into each row of driver's switches. Each loom from SHM runs a row of driver's switches.**





**Photo 4: Photo shows the ground wires and ground studs above driver's area in easily accessible compartment. NOTE: Ground voltage to SHM is maximum .2 volts. Helpful Hint: This ground area is for everything forward of the 5<sup>th</sup> passenger window.**





**Photo 5: Photo shows driver's switch connector unplugged from the back of a driver's switch. All terminals should be inspected for damage and proper position.**





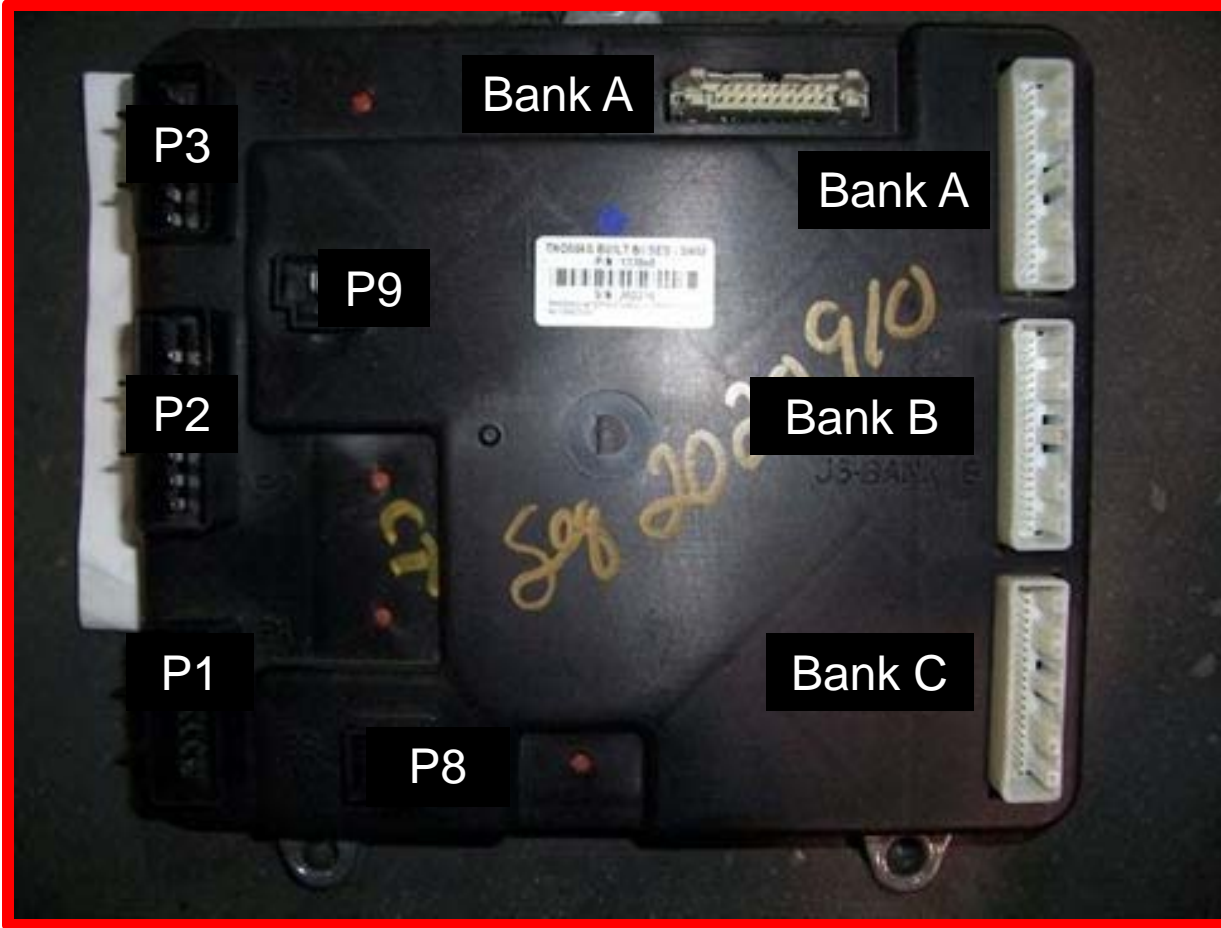
**Photo 6: Photo shows a switch bank harness and the black heat shrink wires in each that are moved during the “wiggle test” in step A4.**



**Photo 7: Photo shows the fuse block in driver's switch cabinet. Three 30amp fuses power the switch hub module (SHM). They are clearly labeled SHM.**







**Photos 8: Photo shows a switch hub module (SHM) with all connectors and looms removed for reference. The SHM is marked very well for simplification.**