

M2 door lock/unlock function...



[Adam Horabik](#) 5 posts since Jun 29, 2020

M2 door lock/unlock function intermittently not working Sep 21, 2020 9:06 PM

2019 M2

Vin# JY7857

Have checked power at switch and at door latch assy and all is ok, after opening and closing door lock and lock assy will both stop working, let it sit for 20-30 seconds and they will work for a bit longer, installed a new switch and is still having an issue, load tested wiring and all checks good



[Jon Cecil](#) 790 posts since Nov 25, 2014

Re: M2 door lock/unlock function intermittently not working Sep 21, 2020 9:57 PM

Is there a door switch on the door with the one on the dash? Have you inspected the PDM on the fender? The terminals end up getting spread and cause them to burn. Haven't seen it on door locks yet. What type of application is this unit?



[Adam Horabik](#) 5 posts since Jun 29, 2020

Re: M2 door lock/unlock function intermittently not working Sep 21, 2020 10:07 PM

Only switch is on dash. PDM is good no signs of any damages and terminals are good. Unit is a fire support vehicle air and light unit, no fire pump.



[Jason Black](#) 31 posts since Apr 27, 2016

Re: M2 door lock/unlock function intermittently not working Sep 21, 2020 10:51 PM

Long time no see, Mr. Horabik!

I vote for live power and ground measurements during operational tests... whatever is dropping out has to rear it's ugly head sometime that way. Looking in module 787 was a little help.

-Jason



[Adam Horabik](#) 5 posts since Jun 29, 2020

Re: M2 door lock/unlock function intermittently not working Sep 21, 2020 10:55 PM

Thank you sir, i will try that in the morning.



[Jon Cecil](#) 790 posts since Nov 25, 2014

Re: M2 door lock/unlock function intermittently not working Sep 21, 2020 10:41 PM

M2 door lock/unlock function...

Try inspecting the 76 pin on the firewall for a spread pin. If both motors are acting up, it sounds like a power or ground issue. Looking at the schematic, the ground goes into a splice pack in the dash. Remove the splice pack connector and check for damage there.



[Jon Cecil](#) 790 posts since Nov 25, 2014

Re: M2 door lock/unlock function intermittently not working Sep 21, 2020 10:42 PM

Also check for pushed back pins. Make sure you are looking at the correct pin since there are floating pins.



[Adam Horabik](#) 5 posts since Jun 29, 2020

Re: M2 door lock/unlock function intermittently not working Sep 21, 2020 10:50 PM

I have also checked amperage on the circuits and when unit is working good, it is pulling about 3.2A, and when system is acting up you can see that it initially pulls 3.2A and then drops out quickly to 0A within 2 secs or so



[Jason Black](#) 31 posts since Apr 27, 2016

Re: M2 door lock/unlock function intermittently not working Sep 22, 2020 1:58 PM

I like checking the amperage. Sometimes I get some good intel by using an LED test light on the circuit, given it's understood limitations. It would let you know if it was loss of power OR ground, possibly an opening component. Then, a supplemental temporary power or ground can be used to verify that would be the fix. My favorite one is made by MAC. I like the way it's made and how it works. It will indicate a green LED for ground, a red one for power.



[Adam Horabik](#) 5 posts since Jun 29, 2020

Re: M2 door lock/unlock function intermittently not working Sep 21, 2020 10:48 PM

I have already inspected the 76-pin bulkhead connector and all is good there, all the pins that i have inspected thus far have been good no pushed back pins yet, the only connector i have not gotten to is the splice pack for gnd in dash.



[Michael Palumbo](#) 1,379 posts since Nov 13, 2014

Re: M2 door lock/unlock function intermittently not working Sep 22, 2020 12:02 AM

Might try isolating to the left or right. I'm thinking by disconnecting between dash and door harnesses, located behind the left and right a-pillar lower panels. Un-connect one side and see if you can get the other side to malfunction then switch sides.



[Robert Cadell Jr](#) 2,593 posts since Nov 9, 2014

Re: M2 door lock/unlock function intermittently not working Sep 22, 2020 12:53 AM

See if this helps hope it posts as attachment

M2 door lock/unlock function...

Rob "Doc" Cadell
DTNA Master Technician/Elgin Lead Tech
TransChicago Truck Group BFWD
Shorewood IL 60404
803 917 5397 Cell
Good Hunting - you'll find your issue



[Jon Cecil](#) 790 posts since Nov 25, 2014

Re: M2 door lock/unlock function intermittently not working Sep 22, 2020 1:16 AM

I don't think it worked Doc. I don't see an attachment under the main topic.



[Robert Cadell Jr](#) 2,593 posts since Nov 9, 2014

Re: M2 door lock/unlock function intermittently not working Sep 22, 2020 1:29 AM

Crap, it figures

Rob "Doc" Cadell
DTNA Master Technician/Elgin Lead Tech
TransChicago Truck Group BFWD
Shorewood IL 60404
803 917 5397 Cell
Good Hunting - you'll find your issue



[Jason Black](#) 31 posts since Apr 27, 2016

Re: M2 door lock/unlock function intermittently not working Sep 22, 2020 1:36 PM

Yep... live testing coupled with dividing/isolating, good point on that.



[Robert Cadell Jr](#) 2,593 posts since Nov 9, 2014

Re: M2 door lock/unlock function intermittently not working Sep 22, 2020 1:31 AM

Now its gonna work

- [pin outs for power windows and locks.pdf](#) 173.1 KB Preview



[Michael Palumbo](#) 1,379 posts since Nov 13, 2014

Re: M2 door lock/unlock function intermittently not working Sep 22, 2020 2:24 AM

M2 door lock/unlock function...

G06-92083-000 WRG-DR LOCK,PWR,M2,DAY