



DTNA Solutions > Discussions and Feedback > Tech Talk > Re: 2019 m2 dd8 a/c inop Options



Matt_Welch
Wrench Turner

04-09-2021 11:46 AM

2019 m2 dd8 a/c inop ✓ [Jump to solution](#)

Vehicle Information

VIN: 1FUBCXD27KHKJ8650

Mileage: 69337 miles

Model Year: 2019

Are you currently seeing this same issue on other DTNA vehicles at your location?:
no

Make: FTL

Base Model: M2106

Model: M2 106 CONVENTIONAL CHASSIS

Vehicle Systems Involved

OTHER SYSTEM (A/C
pressure high, fan wont
engage)

2019 m2 dd8, ac compressor will cycle, building 450 on the high side, up to 60 on the low side. Fan is never commanded on from ac. Fan will work if commanded with input/output. I have not been able to monitor anything on the ac except the clutch. Cant see blower, blend doors, evap temp, pressure switches, etc. using dl8 or service link. Have tried test hvac module, test bhm, cpc, cgw. Verified correct ac charge. Blower motor and all hvac module controls seem to work but cannot monitor.

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1 Solution ✓



Matt_Welch
Wrench Turner

04-14-2021 03:05 PM

✓ CSC uploaded new cpc software to server, fan on at 300 psi for 180 seconds.
Thank you all for your help.

[View solution in original post](#)

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 Jon_Cecil
Gear Head

04-09-2021 04:52 PM

Have you inspected the fan cycling switch?

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 Talbert_Simonia
King Pin

04-10-2021 05:44 PM

Can you command the engine fan to come on with D/L ? If not that maybe you issue. If you can need to see why it is not getting the command to come on.

Add tags



1 Kudo

Reply



 Michael_Palumbo
King Pin

04-10-2021 06:57 PM

The AC fan cycle switch A22-45194-001 is in BOM 702. The part description indicates it is a NC, Normally Closed switch.

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The schematic G06-83541-001 that shows the circuit is in BOM 276. The schematic indicates the switch is supposed to open at 300psi.

With this information I would look for the switch being stuck closed.

The quickest test would be to disconnect the switch to create an open circuit. If the fan comes on, it is the switch.

If the switch is not stuck closed then wire 440Y could be shorted to ground.

Edited to add the following:

Your CPC and or MCM parameters could have been changed inadvertently. Compare your CPC and MCM parameters to 16TS-25

Whether you think you can or you think you can't, you're right. — Henry Ford

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2 Kudos

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Steve_Reppard

Piston Head

04-12-2021 10:44 AM

What does fan status read during a/c operation? Does it ever change to a/c request?

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0 Kudos

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Chris_Vanboom

Piston Head

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04-13-2021 06:40 AM



This is an issue with a "hidden" parameter that cannot be viewed or changed with a dealer version of DDDL. We have had several units with this same issue, you need to phone CSC - they change a parameter on the server and you program CPC and/or MCM to latest server settings and the problem is solved. The old Bulletin 16TS20 refers to same issue on DD13

Chris VanBoom

Add tags

 **16TS20.pdf**
35 KB



3 Kudos

Reply



 Matt_Welch
Wrench Turner

04-13-2021 11:12 AM

I can command the engine fan with dl8. The fan status does not appear to ever show as commanded on by ac. I have tried unplugging the ac switches, and jumping them, no change with the fan. I have not checked the parameters with 16ts25, but i will check them.

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Michael_Palumbo

King Pin

04-13-2021 12:32 PM

The AC controller does not command the fan on. The switch is found in the AC section of partspro but the circuit for it is not. The schematic I previously mentioned is in the fan section and it shows the circuit starts at the CPC, passes through a firewall connector then through the switch to get to ground. The switch is NC but will open at 300psi, therefore if the CPC never sees the circuit go open, the CPC will never command the fan on. You stated you have disconnected the switch, which should have created an open for the CPC to detect. Have you tested the circuit from the CPC to the switch, to see if it is shorted to ground?

Whether you think you can or you think you can't, you're right. — Henry Ford

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Matt_Welch

Wrench Turner

04-14-2021 11:01 AM

I have checked 440y for shorts to ground, no shorts. I have also checked the parameters outlined in 16ts25, all ok. I have verified the switch measures OL when the ac pressure reaches 300. The fan is commanded on by high cac out and coolant temps, still never with ac.

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Chris_Vanboom
Piston Head

04-14-2021 11:05 AM

In every one of the several cases where we have solved this same issue, we contacted the CSC and they made a change on the server that we could not see. After the change was made on the server and we programmed the CPC/MCM/ACM with latest server settings the issue was fixed. Have you contacted the CSC?
Chris VanBoom

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Matt_Welch
Wrench Turner

04-14-2021 11:10 AM

I have not contacted csc yet. I have had similar issues with fan and ac on dd13 and dd15 that have the parameter/programming issues but not dd8

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Chris_Vanboom
Piston Head

04-14-2021 11:11 AM

We have seen several of the exact same issue on DD8
Chris VanBoom

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1 Kudo

Reply



Matt_Welch
Wrench Turner

04-14-2021 11:25 AM

Just started a csc ticket

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0 Kudos

Reply



Matt_Welch
Wrench Turner

04-14-2021 03:05 PM

☒ CSC uploaded new cpc software to server, fan on at 300 psi for 180 seconds.
Thank you all for your help.

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