



GROUP
Body Electrical

MODEL
2022-2026MY
Carnival (KA4, KA4 HEV)

NUMBER
PS807

DATE
March 2026



TECHNICAL OPERATIONS

SUBJECT: CCU FUSE OPEN AFTER WIRING HARNESS REPLACEMENT

This Pitstop provides information regarding a condition on 2022-2026MY Carnival (KA4 and KA4 HEV) vehicles in which the CCU 10A fuse may open and multiple warning lights may illuminate after replacement of the front dash wiring harness.

When diagnosing a vehicle exhibiting this condition, verify that the front harness connectors are installed in their correct locations, specifically **PDC-F and M64-A on KA4 variants, and PDC-F and M38 on KA4 HEV variants**. These connectors are very similar in appearance and may be mistakenly interchanged, which can cause the CCU fuse to open. Their close physical proximity increases the likelihood of incorrect installation.

Refer to the images below for proper connector identification and their correct locations.



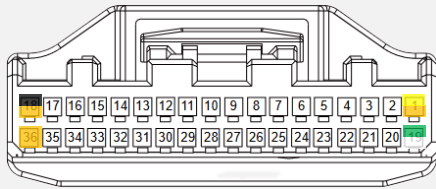
Carnival (KA4)	
Connector	Location
PDC-F	1
M64-A	2

Carnival HEV (KA4 HEV)	
Connector	Location
PDC-F	1
M38	2

NOTICE

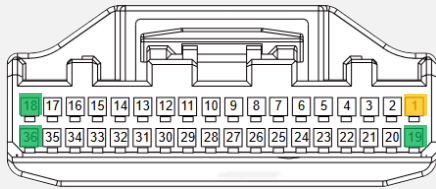
A Pitstop provides information which may help guide technicians address a concern on the subject vehicle described in this publication. A Pitstop is an informational guide/tool without customer notification. Technicians are to review the information provided in this Pitstop for the applicable vehicle and if applicable, use it for diagnostic purposes only. Dealers are required to validate Warranty Coverage in KDealer+ Warranty Coverage Inquiry before conducting any diagnosis/repair procedure.

PDC-F (PDC)



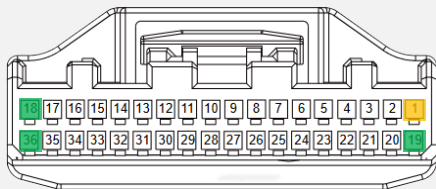
1. Y/O	IPS Control Module (Headlamp Low Back-Up Signal) : Multifunction Switch	21. G	IPS Control Module (Vehicle Comm Status) : CCU (Wake-Up)
2. W	IPS Control Module : PCB Block (Burglar Alarm Horn Relay)	22. G/W	IPS Control Module (Signal) : Front Upper Console Switch (Steering Wheel Heater Switch)
3. -	-	23. -	-
4. -	-	24. -	-
5. -	-	25. -	-
6. -	-	26. Gr/B	IPS Control Module : Front Upper Console Switch (Windshield Glass Heater Switch IND.)
7. -	-	27. R	IPS Control Module (High IND.) : Front Upper Console Switch (Steering Wheel Heater Switch)
8. -	-	28. O	IPS Control Module (Low IND.) : Front Upper Console Switch (Steering Wheel Heater Switch)
9.	IPS Control Module (After Blower Wake-Up) : Front A/C Control Module [Auto A/C] [Manual A/C]	29. W/O	IPS Control Module (Turn Lamp Switch Signal RH) : Multifunction Switch
Y/O	-	30. W	IPS Control Module (Turn Lamp Switch Signal LH) : Multifunction Switch
P/B	-	31. Br	IPS Control Module (Steering Wheel Heater - NTC (+))
10. -	-	32. Y/B	IPS Control Module (Crash Signal) SRS Control Module, Rear PDC
11. Y	IPS Control Module : Hazard Switch (Switch)	33. Br	IPS Control Module (Room Lamp1 Out) : Overhead Console (Door Signal)
12. -	-	34. -	-
13. -	-	35. -	-
14. G	IPS Control Module : Hazard Switch (Switch IND.)	36. O	IPS14 (LO HSW Motor) : Haptic Steering Wheel Motor (+)
15. B	IPS Control Module (Main Ground) : Ground (GM01)		
16. L	B1-CAN HS (Low)		
17. R	B1-CAN HS (High)		
18. B/O	IPS Control Module (Steering Wheel Heater - NTC (-)) : Steering Wheel Heated Module		
19. G/W	IPS Control Module : Front Upper Console Switch (Windshield Glass Heater Switch)		
20. -	-		

M64-A (KA4 CCU)



1. O	B2 HS-CAN (Low)	19. G	B2 HS-CAN (High)
2. G	B1 HS-CAN (High)	20. O	B1 HS-CAN (Low)
3. -	-	21. -	-
4. L	DCU (DCU_Reset)	22. G	PDC (IPS Control Module - Vehicle Comm Status)
5. W/B	E-CAN FD (High)	23. R/W	E-CAN FD (Low)
6. L/O	P1-CAN FD (Low)	24. Y/O	P1-CAN FD (High)
7. R/O	C-CAN FD (High)	25. G/B	C-CAN FD (Low)
8. -	-	26. -	-
9. -	-	27. -	-
10. Y	M HS-CAN (High)	28. P/O	M HS-CAN (Low)
11. Gr	Data Link Connector (Activation Line)	29. -	-
12. L	Data Link Connector (TX +)	30. R	Data Link Connector (TX -)
13. Br	Data Link Connector (RX +)	31. Y	Data Link Connector (RX -)
14. B	Ground (GM01)	32. B	Ground (GM01)
15. P	DCU (CCU_Wake-Up)	33. G	CCNC (AVN Head Unit) (CCU Wake-Up Signal Output)
16. -	-	34. -	-
17. L	PDC (Fuse - MODULE3)	35. P	PDC (Fuse - MODULE2)
18. G	PDC (Fuse - CCU)	36. G	PDC (Fuse - CCU)

M38 (KA4 HEV CCU)



1. O	B2 HS-CAN (Low)	19. G	B2 HS-CAN (High)
2. G	B1 HS-CAN (High)	20. O	B1 HS-CAN (Low)
3. R/O	P2-CAN FD (Low)	21. Gr	P2-CAN FD (High)
4. L	DCU (DCU_Reset)	22. G	PDC (IPS Control Module - Vehicle Comm Status)
5. W/B	E-CAN FD (High)	23. R/W	E-CAN FD (Low)
6. R/W	P1-CAN FD (Low)	24. Br/O	P1-CAN FD (High)
7. R/O	C-CAN FD (High)	25. G/B	C-CAN FD (Low)
8. -	-	26. -	-
9. -	-	27. -	-
10. Y	M HS-CAN (High)	28. P/O	M HS-CAN (Low)
11. Gr	Data Link Connector (ERT Activation)	29. -	-
12. L	Data Link Connector (TX +)	30. R	Data Link Connector (TX -)
13. Br	Data Link Connector (RX +)	31. Y	Data Link Connector (RX -)
14. B	Ground (GM01)	32. B	Ground (GM01)
15. P	DCU (CCU_Wake-Up)	33. G	CCNC (AVN Head Unit) (CCU Wake-Up Signal Output)
16. W/O	PDC (Fuse - IG3 3)	34. -	-
17. L	PDC (Fuse - MODULE3)	35. P	PDC (Fuse - MODULE2)
18. G	PDC (Fuse - CCU)	36. G	PDC (Fuse - CCU)