

CM1B	DELPHI	13964572
CONNECTOR	NONE	NONE
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	DELPHI	AG
TPA/WEDGE	DELPHI	15494608
CAVITY PLUG	DELPHI	15318164
CONNECTOR	DELPHI	13964572
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	DELPHI	AG
TPA/WEDGE	DELPHI	15494608
CAVITY PLUG	DELPHI	15318164

ENGINEERING STANDARD:	CES 10903	RELEASE NUMBER:	151750-033
ENGINEERING STANDARD:	FEP 00048356	I/O MATRIX:	CM2350 PV IO MATRIX REVISION 21
INSPECTION STANDARD:	FEP 00048355	DRAFTER:	Alicia Martinez
		DATE:	22 MAY 2018
WIRE COLOR STANDARD:	FEP 00046857	CHECKER:	Mohan Pasupuleti
		DATE:	20 JUN 2018
INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Dhulpati
		DATE:	20 JUN 2018

CUMMINS INC.

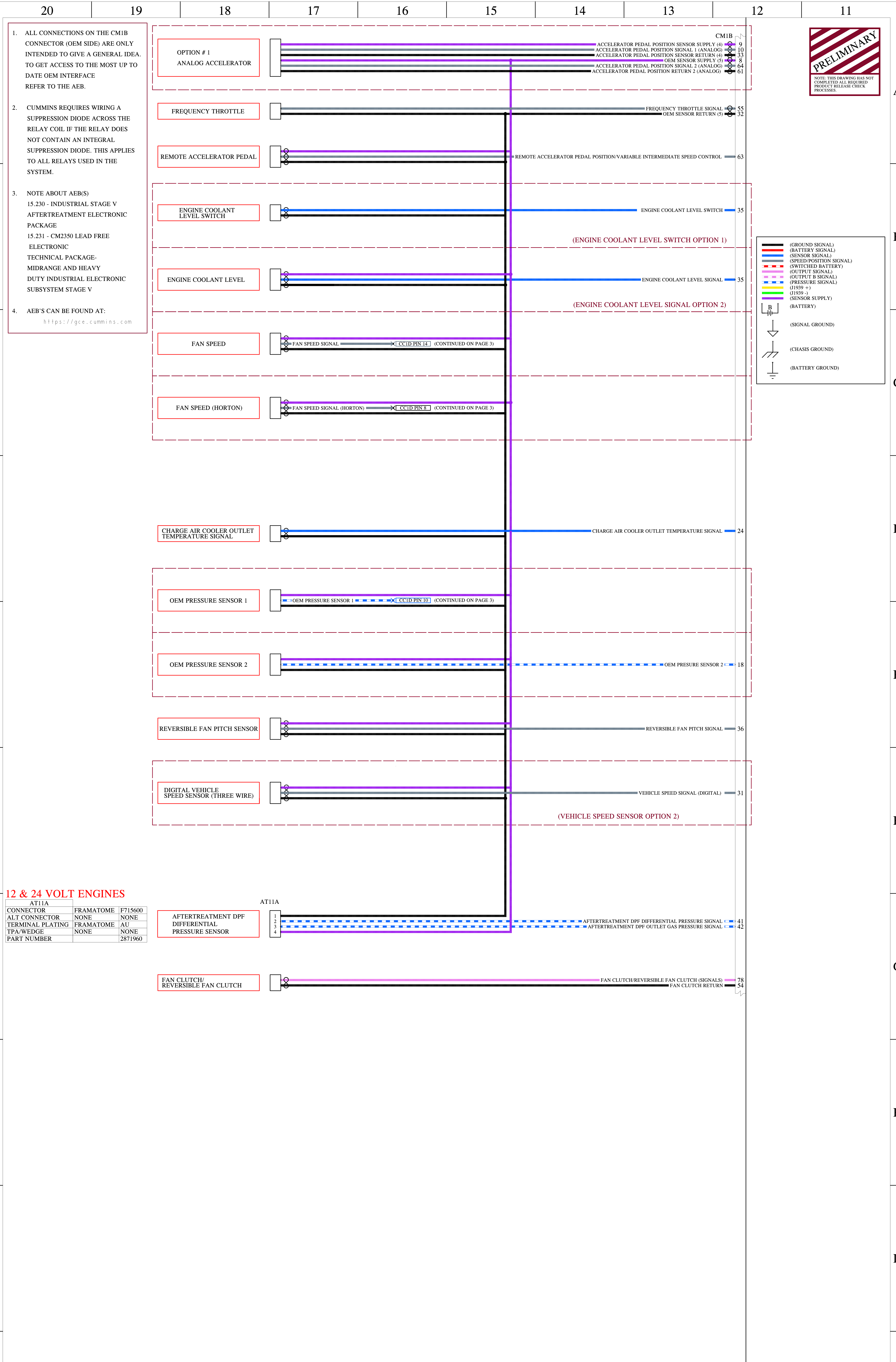
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SIZE **J**

ITEM NAME: DIAGRAM, WIRING
IDENTIFIER: WIRING DIAGRAM

CODE IDENT NO: -
REVISION: 3

ITEM NUMBER: **5398546**
SHEET 1 OF 5



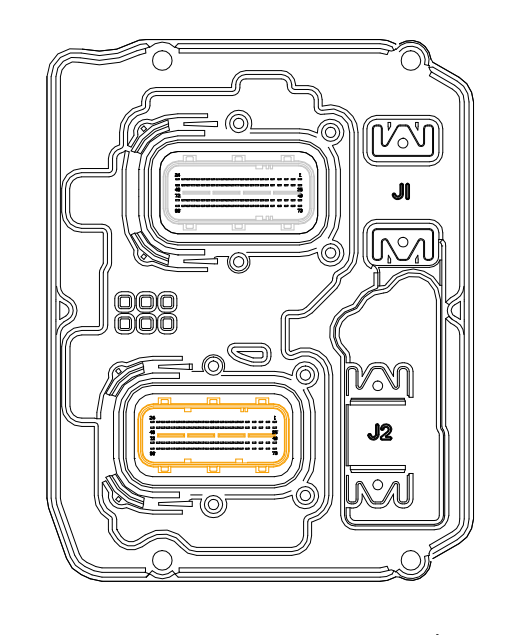
PRELIMINARY
 NOTE: THIS DRAWING HAS NOT COMPLETED ALL REQUIRED PRODUCT RELEASE CHECK PROCESSES.

	(GROUND SIGNAL)
	(BATTERY SIGNAL)
	(SENSOR SIGNAL)
	(SPEED/POSITION SIGNAL)
	(SWITCHED BATTERY)
	(OUTPUT SIGNAL)
	(OUTPUT B SIGNAL)
	(PRESSURE SIGNAL)
	(J1939 +)
	(J1939 -)
	(SENSOR SUPPLY)
	(BATTERY)
	(SIGNAL GROUND)
	(CHASSIS GROUND)
	(BATTERY GROUND)

12 & 24 VOLT ENGINES

AT11A		
CONNECTOR	FRAMATOME	F715600
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	FRAMATOME	AU
TPA/WEDGE	NONE	NONE
PART NUMBER		2871960

CM2350A



J1-GRAY
 J2-BROWN

CM1B		
CONNECTOR	DELPHI	13964572
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	DELPHI	AG
TPA/WEDGE	DELPHI	15494608
CAVITY PLUG	DELPHI	15318164
CONNECTOR	DELPHI	13964572
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	DELPHI	AG
TPA/WEDGE	DELPHI	15494608
CAVITY PLUG	DELPHI	15318164

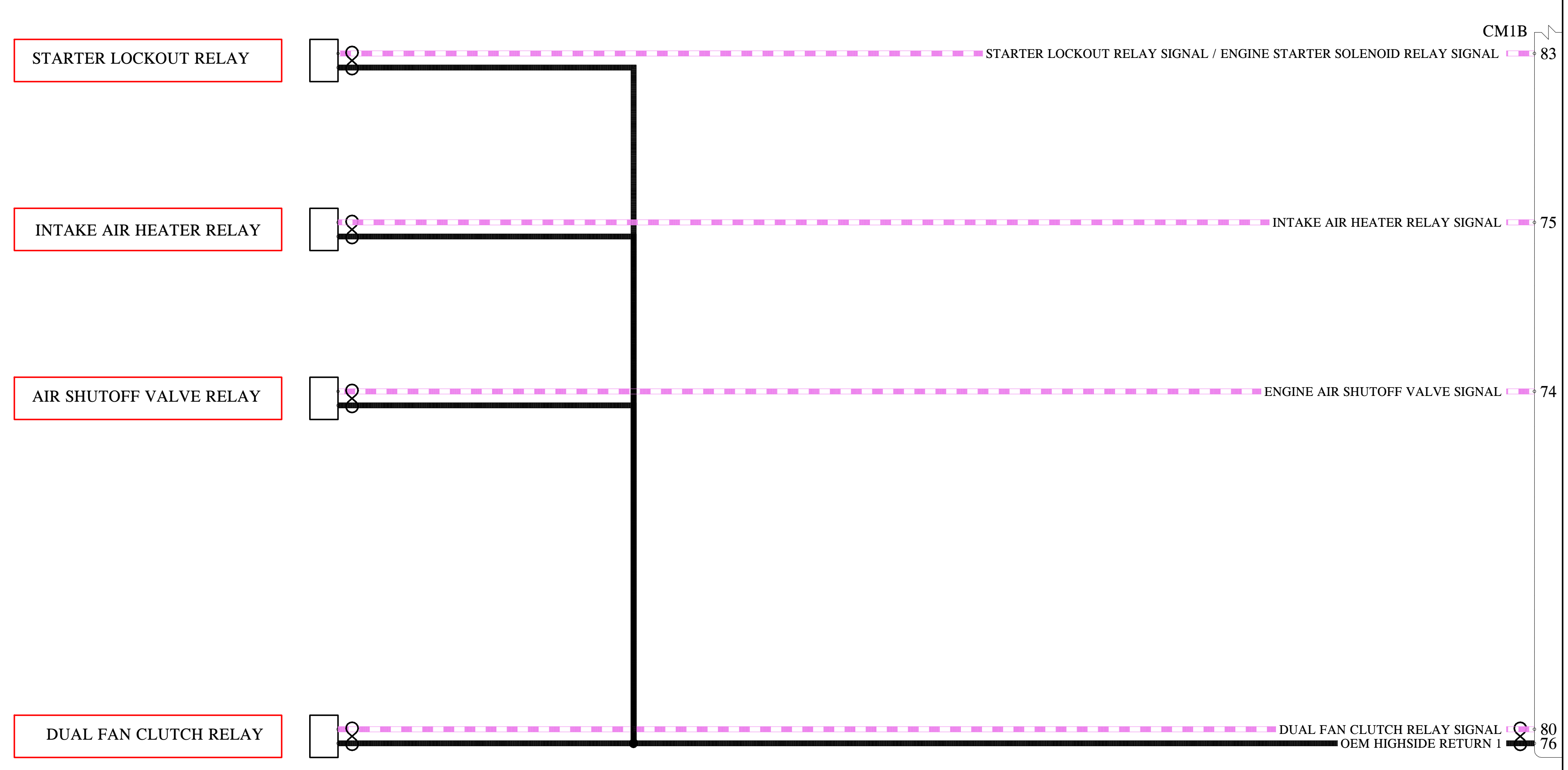
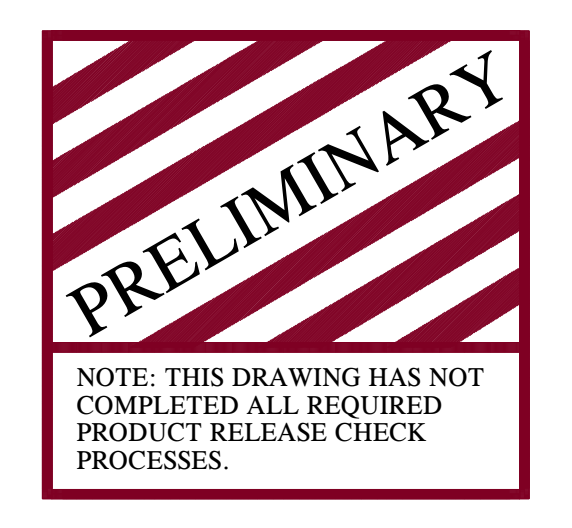
ENGINEERING STANDARD:	CES 10903	RELEASE NUMBER:	151750-033
ENGINEERING STANDARD:	FEP 00048356	I/O MATRIX:	CM2350 PV IO MATRIX REVISION 21
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		DATE:	20 JUN 2018
INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Dhulipati
		DATE:	20 JUN 2018

CUMMINS INC.

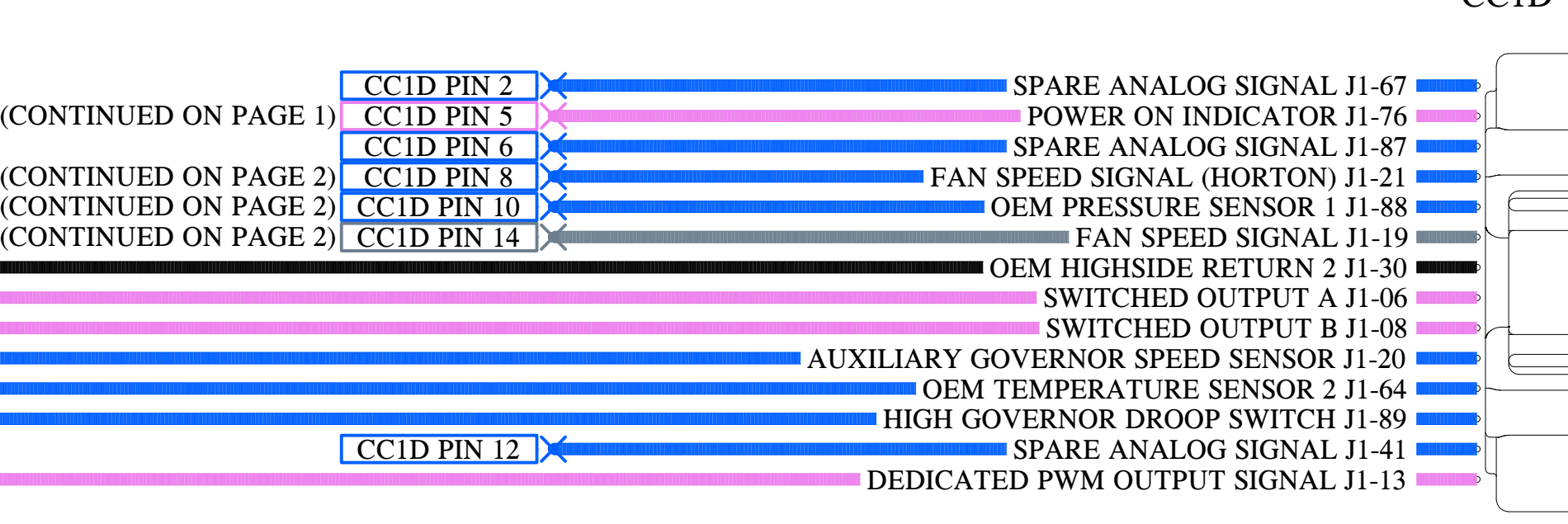
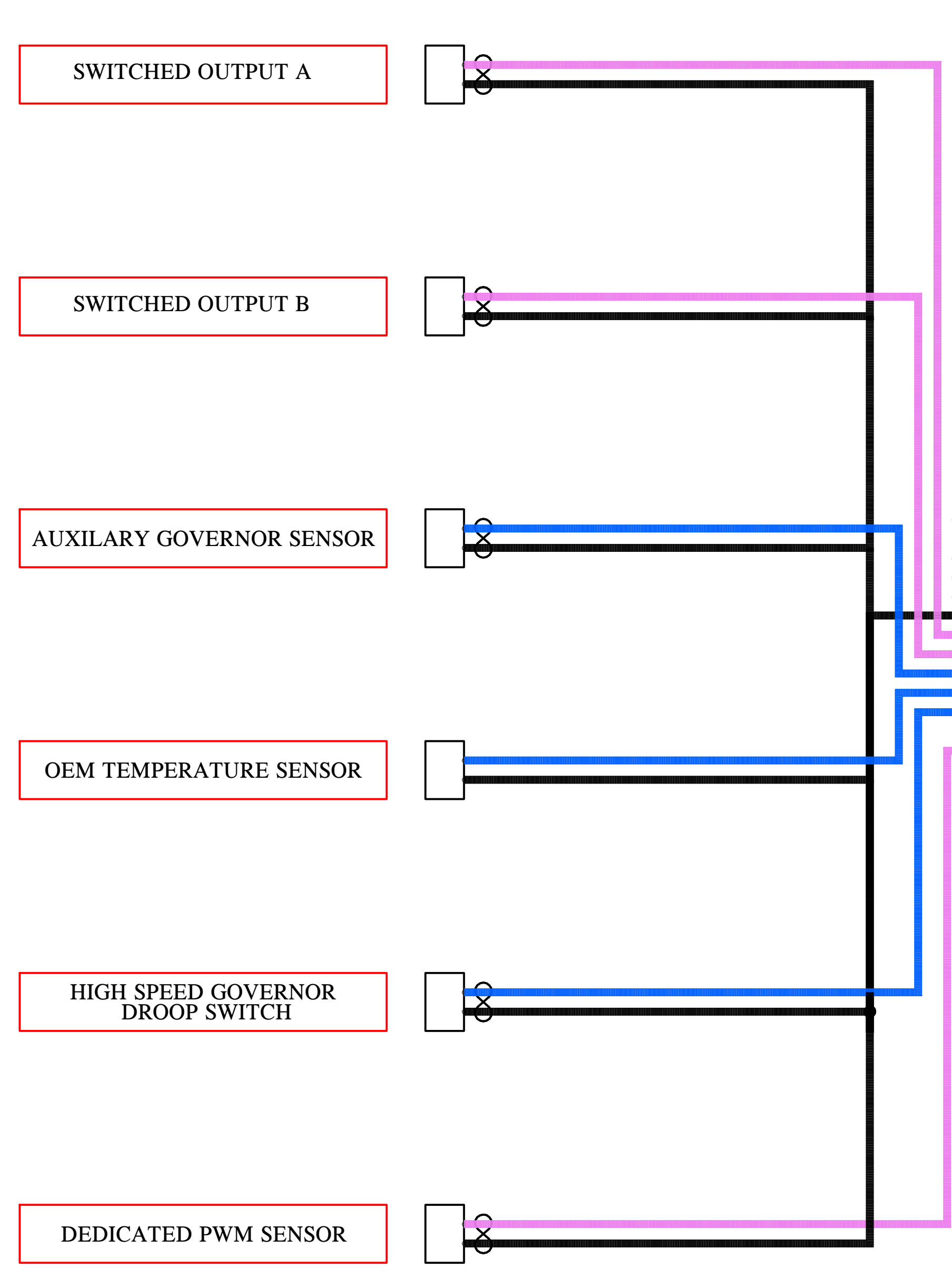
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SIZE	J	ITEM NAME:	DIAGRAM, WIRING
IDENTIFIER:		WIRING DIAGRAM	
CODE IDENT NO:	-	ITEM NUMBER:	5398546
REVISION:	3	SHEET	2 OF 5

1. ALL CONNECTIONS ON THE CM1B CONNECTOR (OEM SIDE) ARE ONLY INTENDED TO GIVE A GENERAL IDEA. TO GET ACCESS TO THE MOST UP TO DATE OEM INTERFACE REFER TO THE AEB.
2. CUMMINS REQUIRES WIRING A SUPPRESSION DIODE ACROSS THE RELAY COIL IF THE RELAY DOES NOT CONTAIN AN INTEGRAL SUPPRESSION DIODE. THIS APPLIES TO ALL RELAYS USED IN THE SYSTEM.
3. NOTE ABOUT AEB(S)
15.230 - INDUSTRIAL STAGE V AFTERTREATMENT ELECTRONIC PACKAGE
15.231 - CM2350 LEAD FREE ELECTRONIC TECHNICAL PACKAGE- MIDRANGE AND HEAVY DUTY INDUSTRIAL ELECTRONIC SUBSYSTEM STAGE V
4. AEB'S CAN BE FOUND AT:
<https://gce.cummins.com>

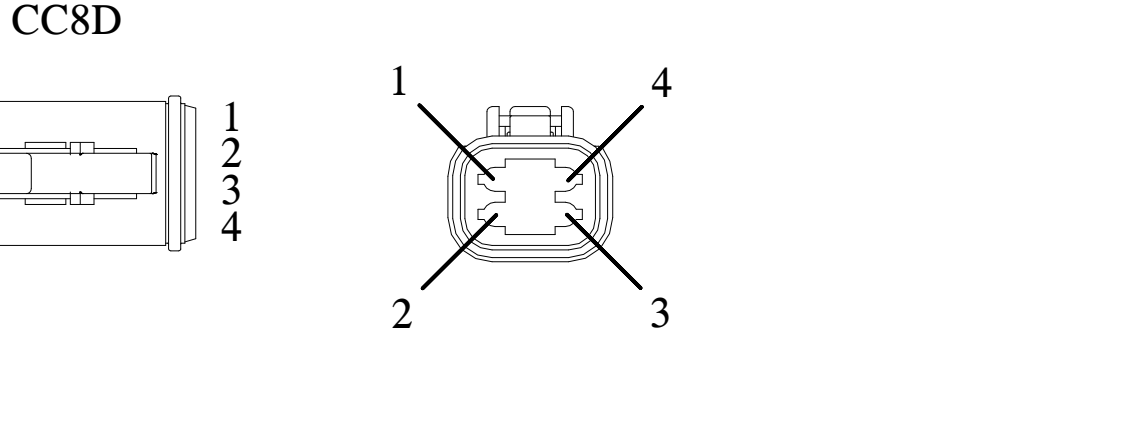


	(GROUND SIGNAL)
	(BATTERY SIGNAL)
	(SENSOR SIGNAL)
	(SPEED/POSITION SIGNAL)
	(SWITCHED BATTERY)
	(OUTPUT SIGNAL)
	(OUTPUT B SIGNAL)
	(PRESSURE SIGNAL)
	(J1939 +)
	(J1939 -)
	(SENSOR SUPPLY)
	(BATTERY)
	(SIGNALGROUND)
	(CHASSIS GROUND)
	(BATTERY GROUND)



CC1D		
CONNECTOR	FRAMATOME	54001803
TERMINAL CONNECTOR	NONE	NONE
TERMINAL PLATING	DELPHI	AU
TPA/WEDGE	NONE	NONE
ALTERNATE CONNECTOR	DELPHI	54201412

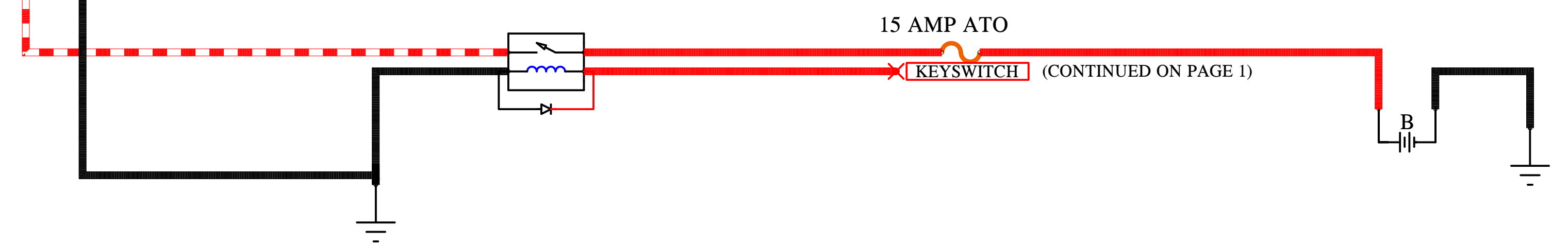
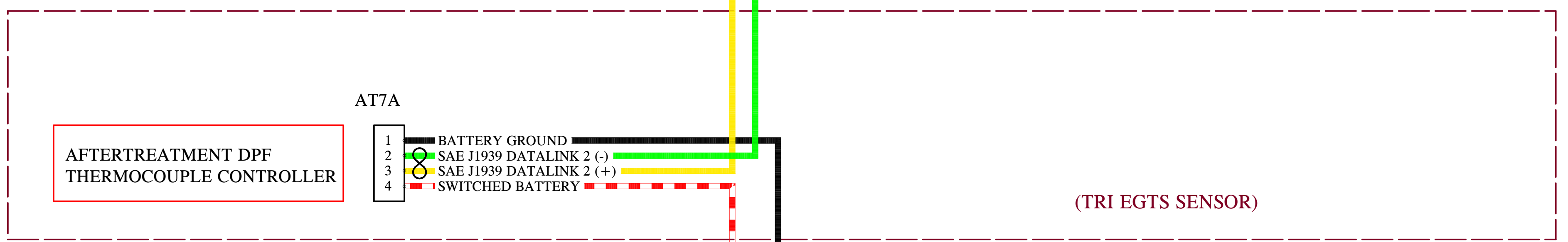
CC8D		
CONNECTOR	DEUTSCH	DT06-4S-CE05
ALT CONNECTOR	TYCO	1062-16-0144
TERMINAL PLATING	TYCO	AU
TPA/WEDGE	TYCO	W4P
PART NUMBER	NONE	NONE



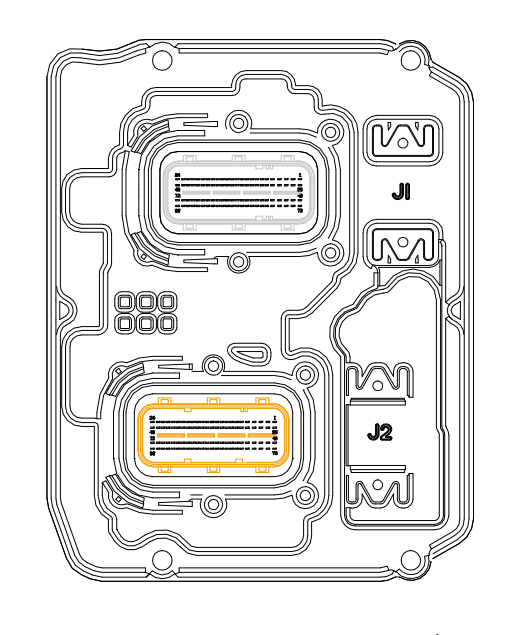
NOTE TO OEM: 120 OHM TERMINATING RESISTOR REQUIRED AT THE OEM END OF THE BACKBONE.

12 & 24 VOLT ENGINES

AT7A		
CONNECTOR	TYCO	1-1418390-1
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	TYCO	AU
TPA/WEDGE	NONE	NONE
PART NUMBER	NONE	5461947



CM2350A



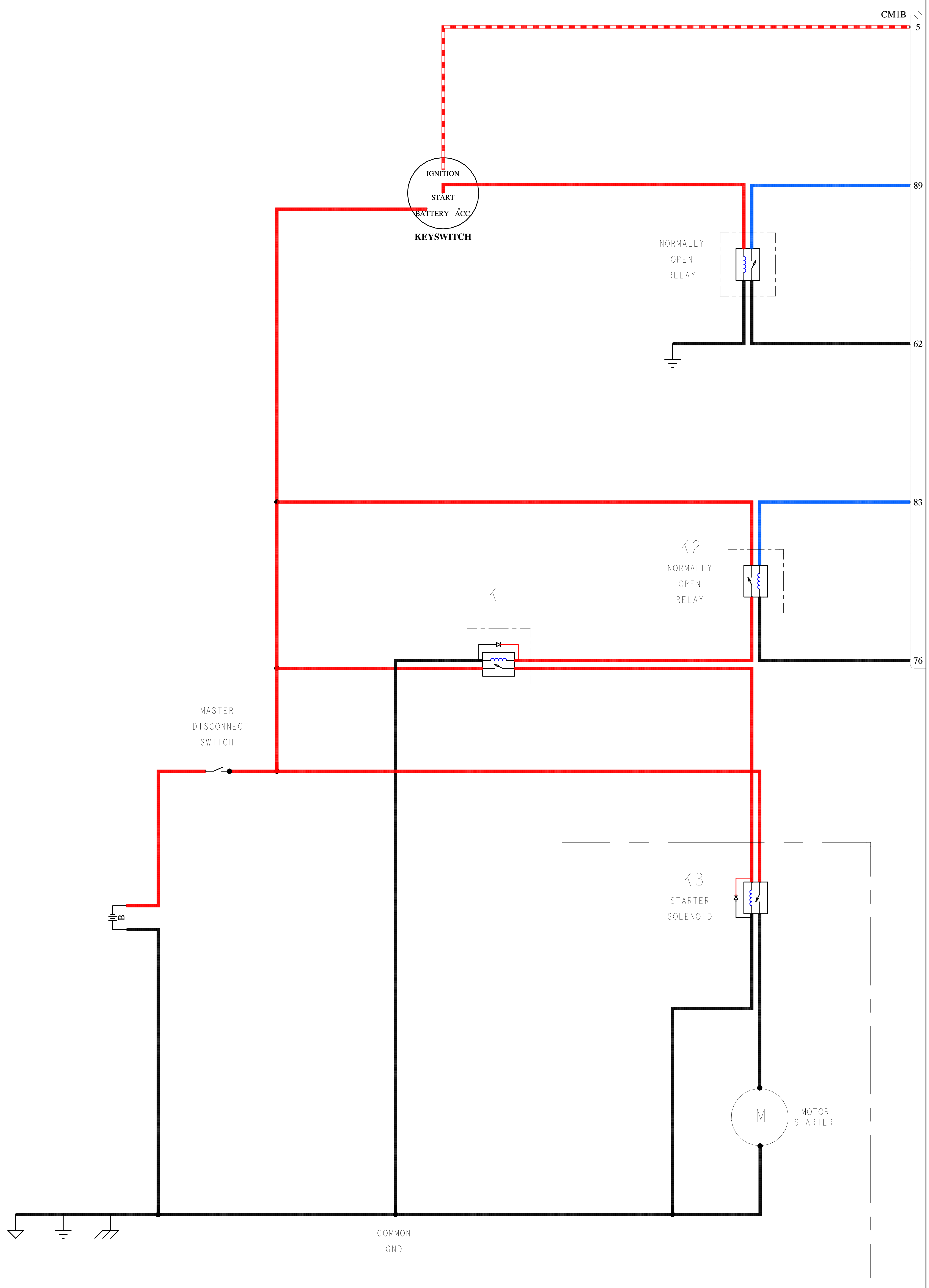
CM1B		
CONNECTOR	DELPHI	13964572
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	DELPHI	AG
TPA/WEDGE	DELPHI	15494608
CAVITY PLUG	DELPHI	15318164
CONNECTOR	DELPHI	13964572
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	DELPHI	AG
TPA/WEDGE	DELPHI	15494608
CAVITY PLUG	DELPHI	15318164

ENGINEERING STANDARD:	CES 10903	RELEASE NUMBER:	151750-033
ENGINEERING STANDARD:	FEP 00048356	I/O MATRIX:	CM2350 PV IO MATRIX REVISION 21
INSPECTION STANDARD:	FEP 00048355	DRAFTER:	Alicia Martinez
WIRE COLOR STANDARD:	FEP 00046857	CHECKER:	Mohan Pasupuleti
INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Dhulipati

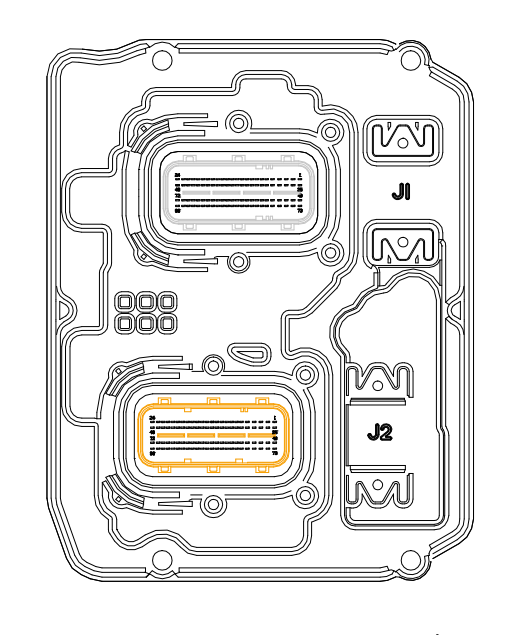
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SIZE	J	ITEM NAME:	DIAGRAM, WIRING
		IDENTIFIER:	WIRING DIAGRAM
CODE IDENT NO:	-	ITEM NUMBER:	5398546
REVISION:	3	SHEET	3 OF 5

PRELIMINARY
 NOTE: THIS DRAWING HAS NOT COMPLETED ALL REQUIRED PRODUCT RELEASE CHECK PROCESSES.
CUMMINS RESTRICTED

NORMAL STOP/START



CM2350A



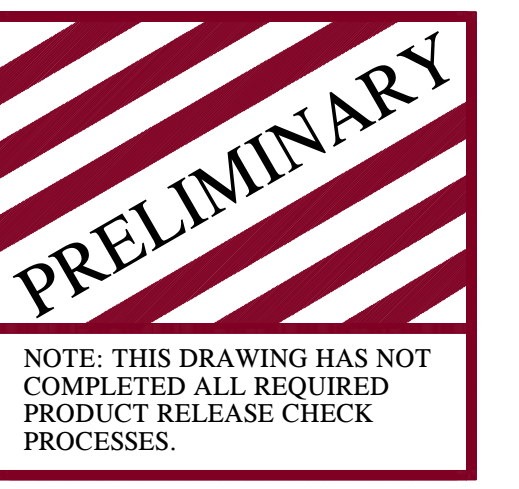
J1-GRAY
 J2-BROWN

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		DATE:	20 JUN 2018
INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Dhulipati
		DATE:	20 JUN 2018

SIZE J	ITEM NAME:	DIAGRAM, WIRING
	IDENTIFIER:	WIRING DIAGRAM
CODE IDENT NO:	-	ITEM NUMBER: 5398546
REVISION:	3	SHEET 5 OF 5



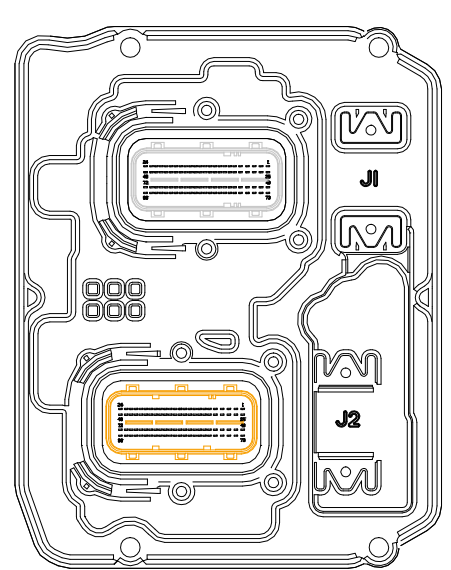
J2 PINS NOT CONNECTED

- CM1B
- 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - 14
 - 15
 - 16
 - 17
 - 21
 - 24
 - 28
 - 37
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 - 86
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 - 91

REVISION HISTORY TABLE

REVISION NUMBER	DATE	WIRING DIAGRAM CHANGES
0	07 OCT 2016	Initial Draft
1	09 SEPT 2017	Replaced 24 pin crossover CC5B with a 14 pin crossover CC1D and 4 pin crossover CC8D; Updated Pin J2-89;
2	16 NOV 2017	Updated AT7A Pin 2 to SAE J1939 DATALINK 2 (-) and Pin 3 to SAE J1939 DATALINK 2 (+); Updated OEM Temperature Sensor 2 pin number from J1-67 to J1-64;
3	20 JUN 2018	Sheet 1: J2-62 wire break was deleted Sheet 2: AT11A connector part number was updated from 54200410 to F715600. Digital VSS Option3 was removed. Twisted wire symbols: AT DPF Differential Pressure Sensor was deleted, OEM Pressure Sensor 1 was deleted, OEM Pressure Sensor 2 was deleted. Sheet 3: Missing Air Shutoff Valve Relay symbol was added, AT7A was updated to DPF Thermocouple Controller, connector tables were updated to a single table, Tyco connector was updated from 2-1418390-1 to 1-1418391-1, sensor part number was updated from 4307262 to 5461947. Twisted wire symbol: OEM Temperature sensor was deleted. Sheet 4: Normal Stop/Start was added to the wiring diagram. Sheet 5: Not used Pins table was updated: J2-23 was deleted, J2-48 was deleted, J2-65 was deleted, J2-89 was deleted, J2-95 was deleted. AEB table was updated: 4. FOR ADDITIONAL INFORMATION REGARDING TWISTED PAIR/ TRIPLETS, REFER TO CEB 00515.

CM2350A



J1-GRAY

J2-BROWN

CM1B	DELPHI	13964572
CONNECTOR	NONE	NONE
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	DELPHI	AG
TPA/WEDGE	DELPHI	15494608
CAVITY PLUG	DELPHI	15318164
CONNECTOR	DELPHI	13964572
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	DELPHI	AG
TPA/WEDGE	DELPHI	15494608
CAVITY PLUG	DELPHI	15318164

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SIZE	J	ITEM NAME:	DIAGRAM, WIRING
		IDENTIFIER:	WIRING DIAGRAM
CODE IDENT NO:	-	ITEM NUMBER:	5398546
REVISION:	3	SHEET	4 OF 5