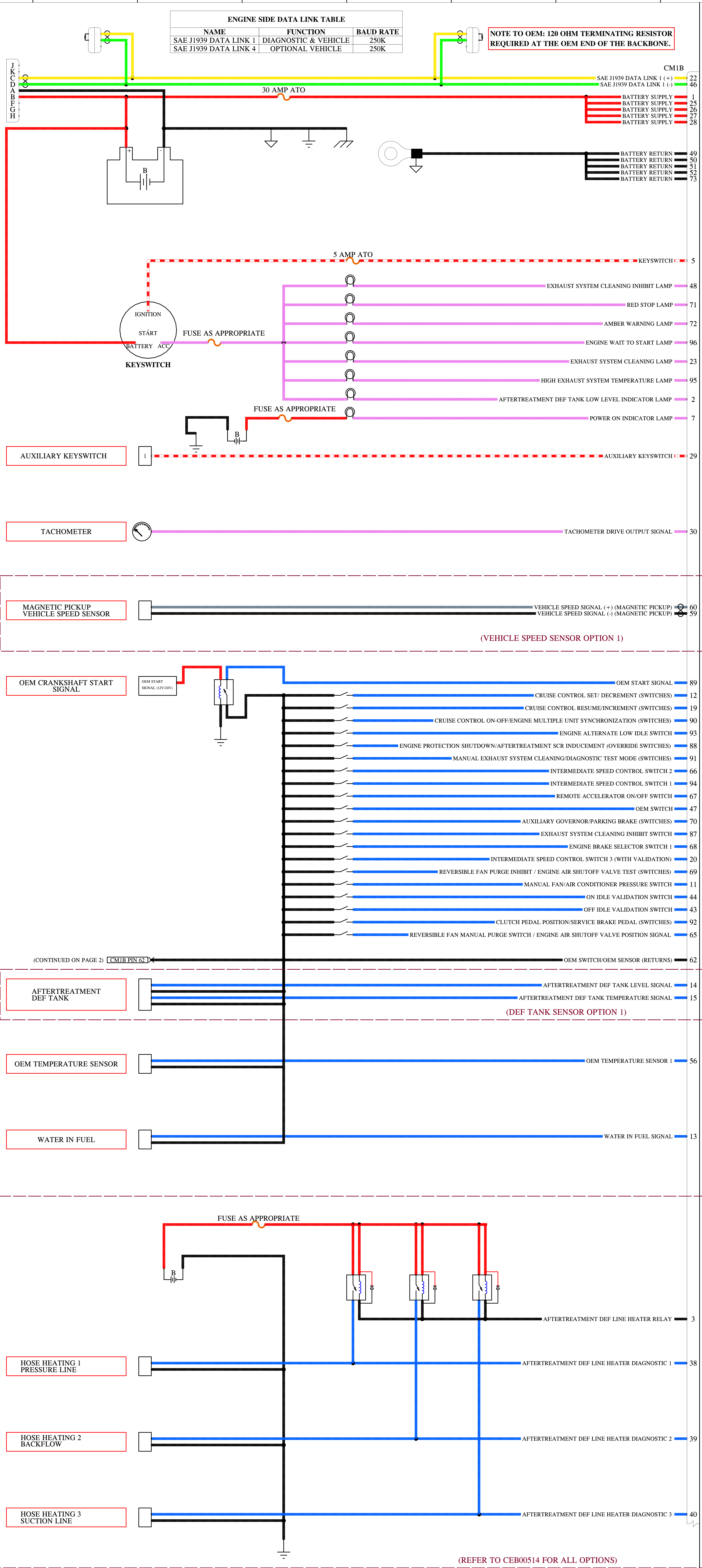


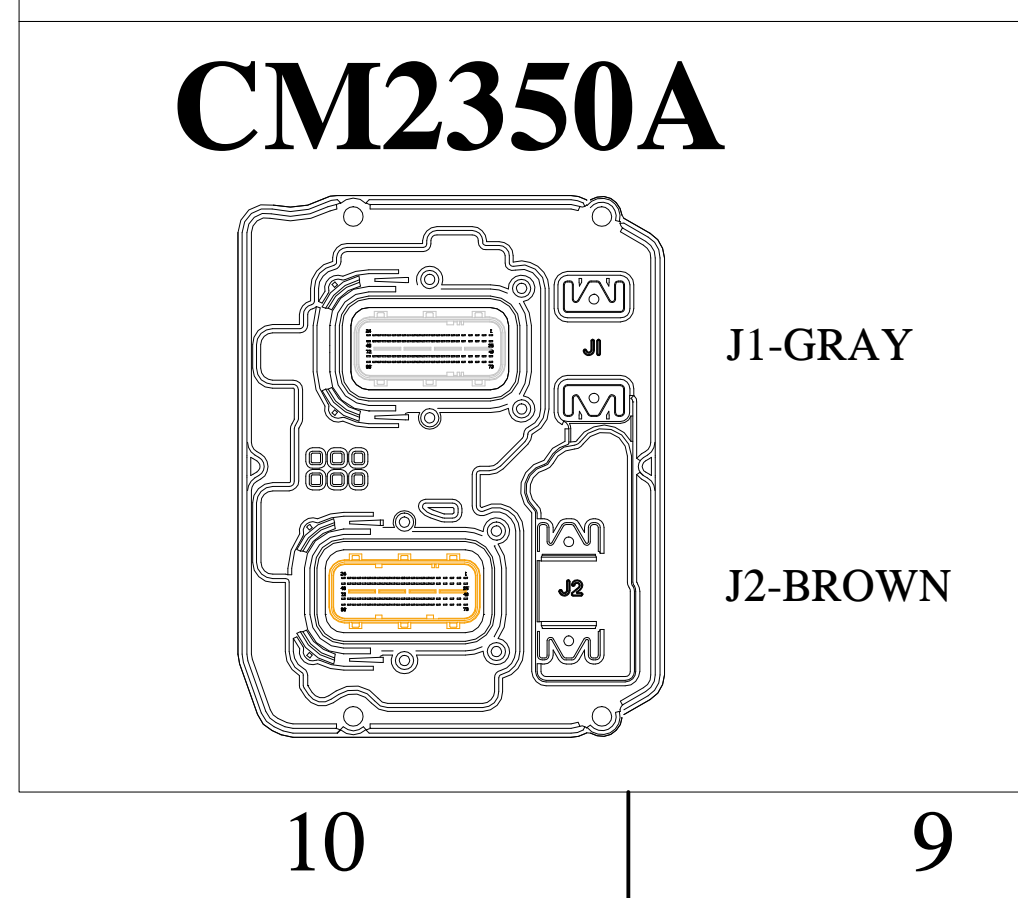
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- NOTE ABOUT AEB(S)
15.230 - INDUSTRIAL STAGE V AFTERTREATMENT ELECTRONIC PACKAGE
15.231 - CM2350 LEAD FREE ELECTRONIC TECHNICAL PACKAGE- MIDRANGE AND HEAVY DUTY INDUSTRIAL ELECTRONIC SUBSYSTEM STAGE V
- FOR ADDITIONAL INFORMATION REGARDING TWISTED PAIR/ TRIPLETS, REFER TO CEB00515
- AEB'S CAN BE FOUND AT: <https://gce.cummins.com>



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)



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:	161750-124
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:	Mostafa Farag
INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Duliphati

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SIZE **J**

ITEM NAME: DIAGRAM, WIRING
IDENTIFIER: WIRING DIAGRAM

CODE IDENT NO: -
REVISION: 0

ITEM NUMBER: 5446757
SHEET 1 OF 5

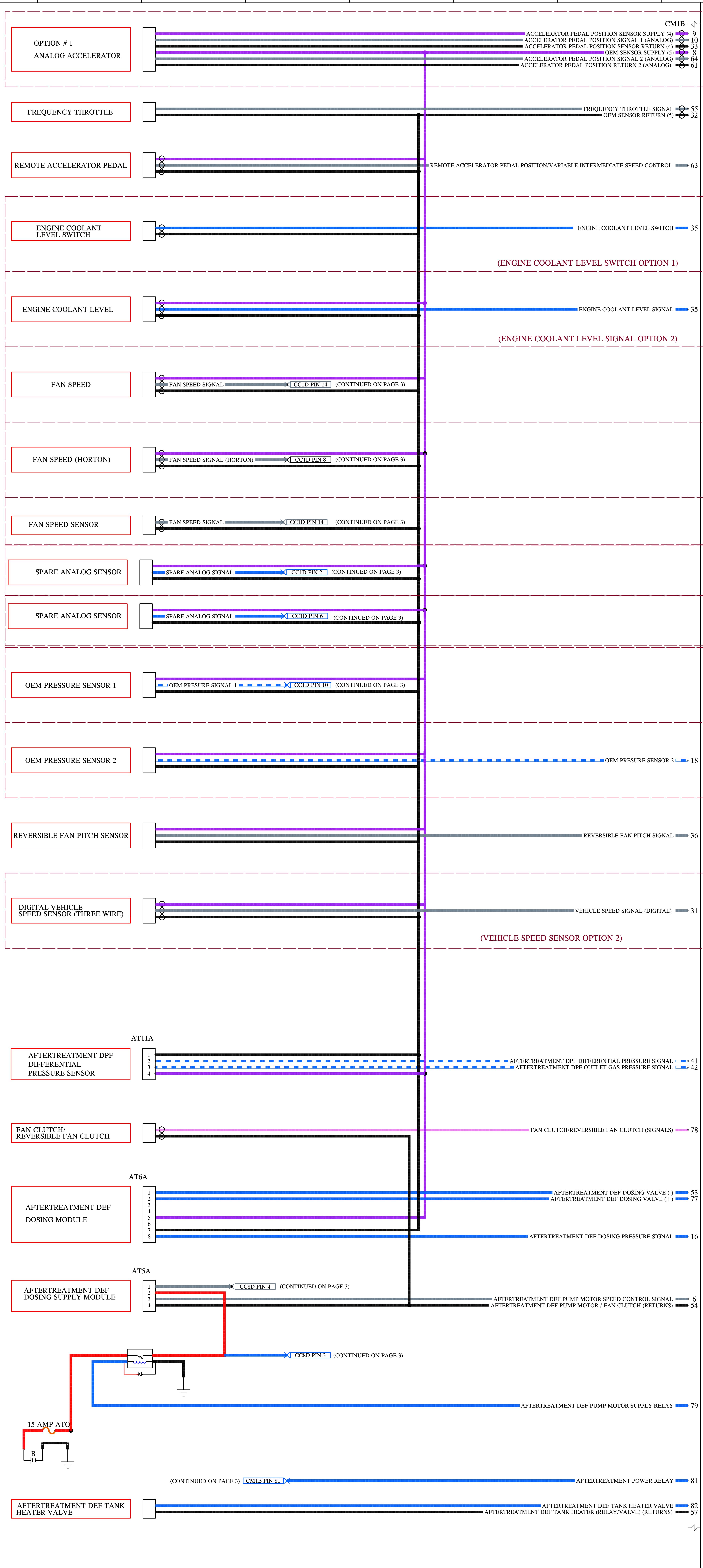
1. ALL CONNECTIONS ON THE CMIB CONNECTOR (OEM SIDE) ARE ONLY INTENDED TO GIVE A GENERAL IDEA. TO GET ACCESS TO THE MOST UP TO DATE OEM INTERFACE REFER TO THE AEB.

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15.231 - CM2350 LEAD FREE ELECTRONIC TECHNICAL PACKAGE- MIDRANGE AND HEAVY DUTY INDUSTRIAL ELECTRONIC SUBSYSTEM STAGE V

4. FOR ADDITIONAL INFORMATION REGARDING TWISTED PAIR/ TRIPLETS, REFER TO CEB00515

5. AEB'S CAN BE FOUND AT: <https://gce.cummins.com>



PRELIMINARY

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	(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)

AT11A		
CONNECTOR	DELPHI	F715600
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	DELPHI	AU
TPA/WEDGE	NONE	NONE
PART NUMBER		4383998

12 VOLT ENGINES

AT6A		
CONNECTOR	TYCO	1-1418479-1
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	TYCO	AG
TPA/WEDGE	NONE	NONE
PART NUMBER		4377650

24 VOLT ENGINES

AT6B		
CONNECTOR	TYCO	1-1418479-1
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	TYCO	AG
TPA/WEDGE	NONE	NONE
PART NUMBER		4377649

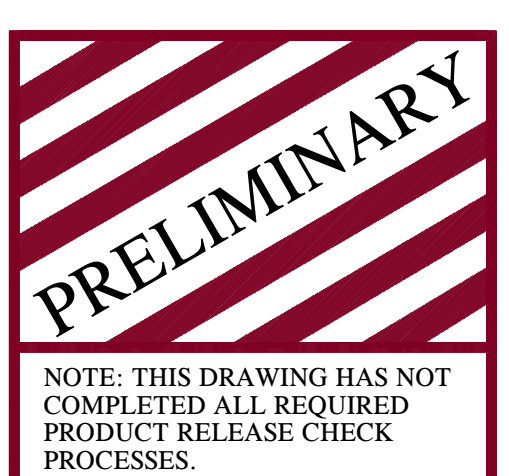
12 AND 24 VOLT ENGINES

AT5A		
CONNECTOR	TYCO	2-1418390-1
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	TYCO	AG
TPA/WEDGE	NONE	NONE
PART NUMBER		4388105

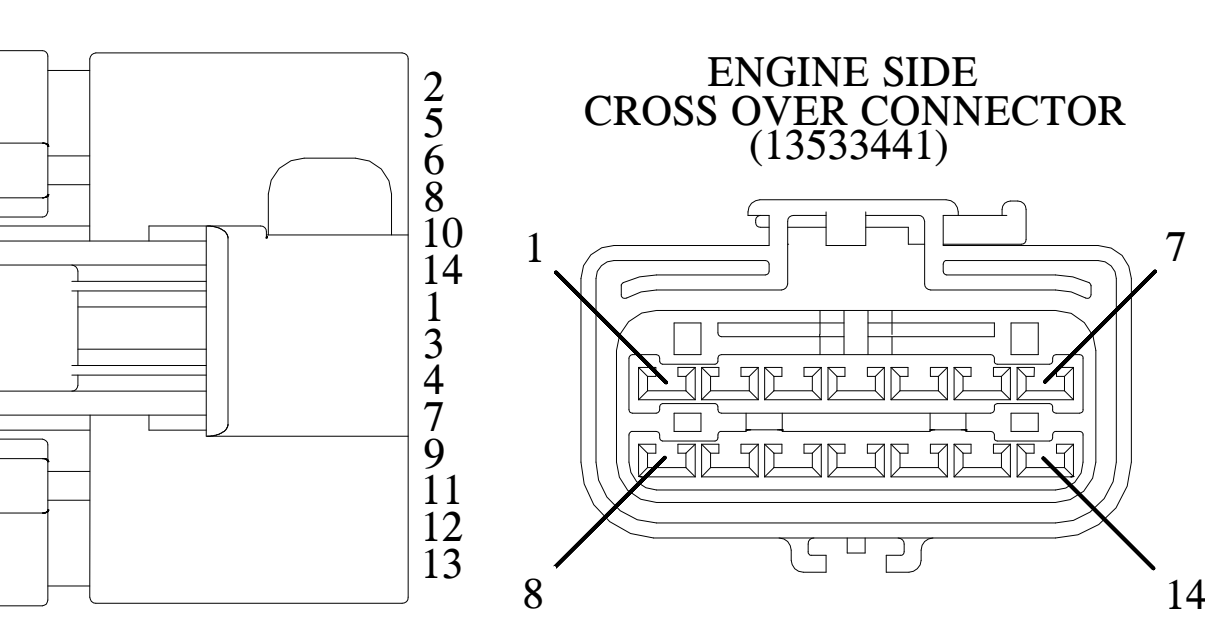
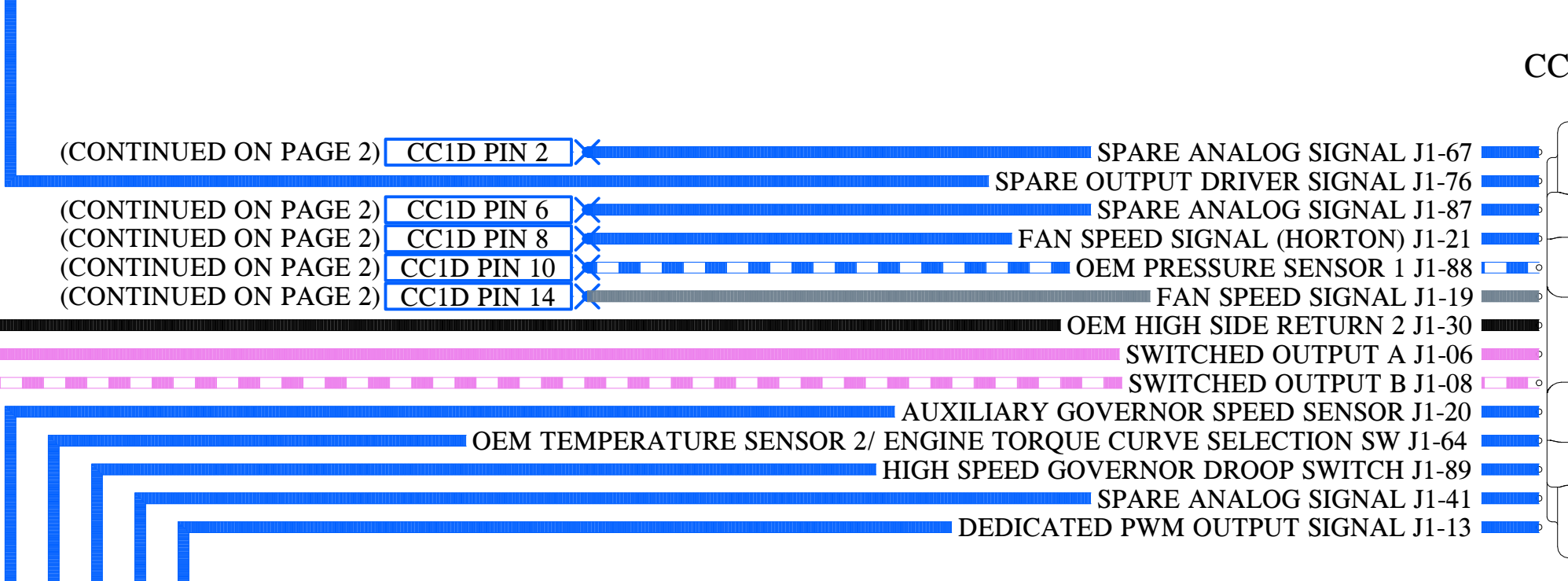
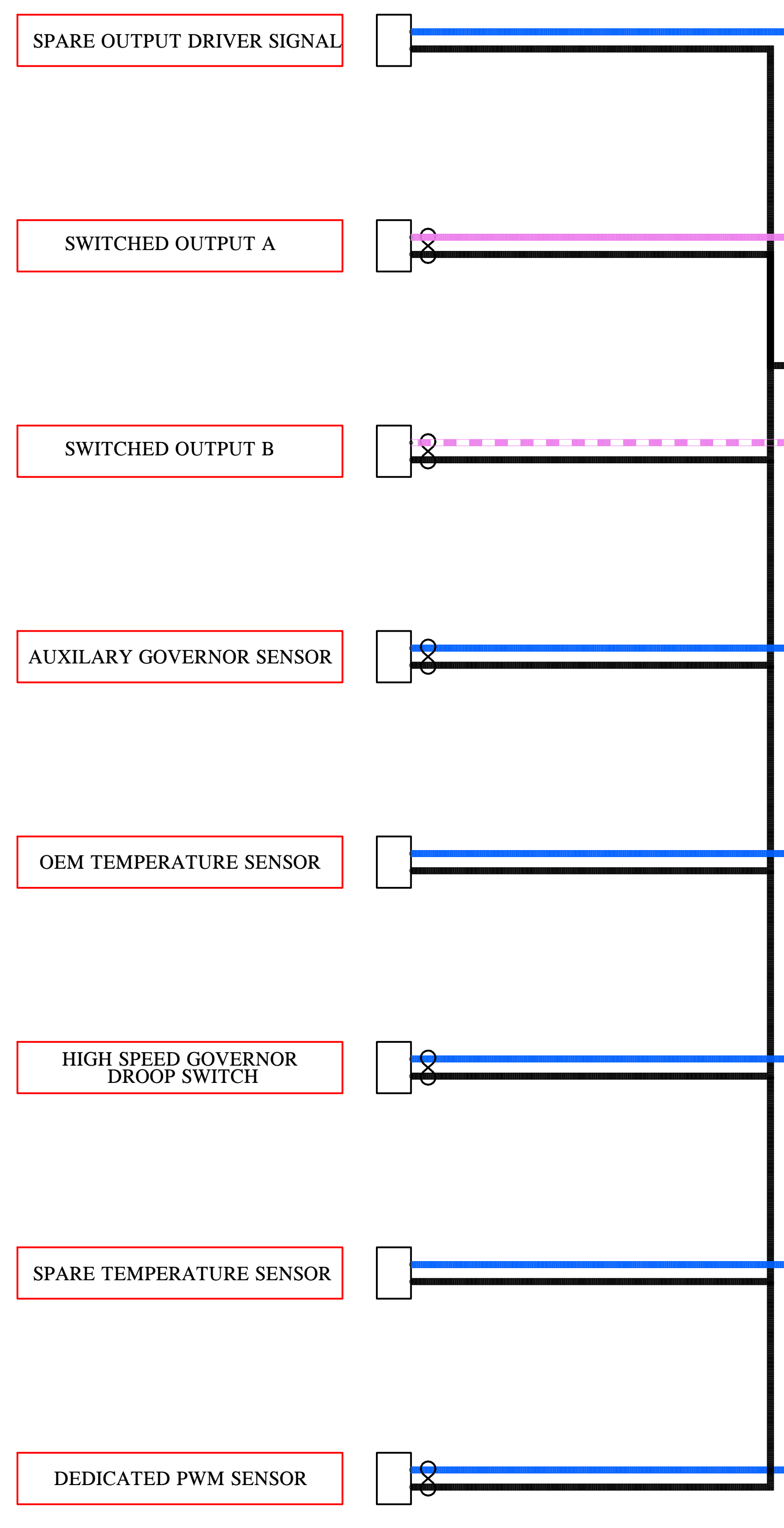
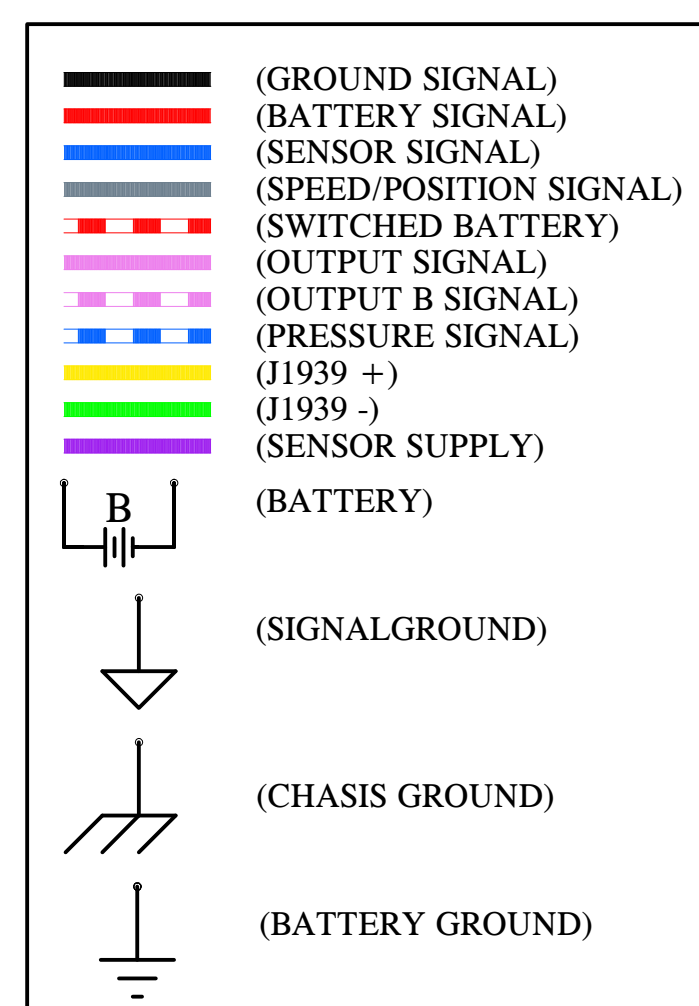
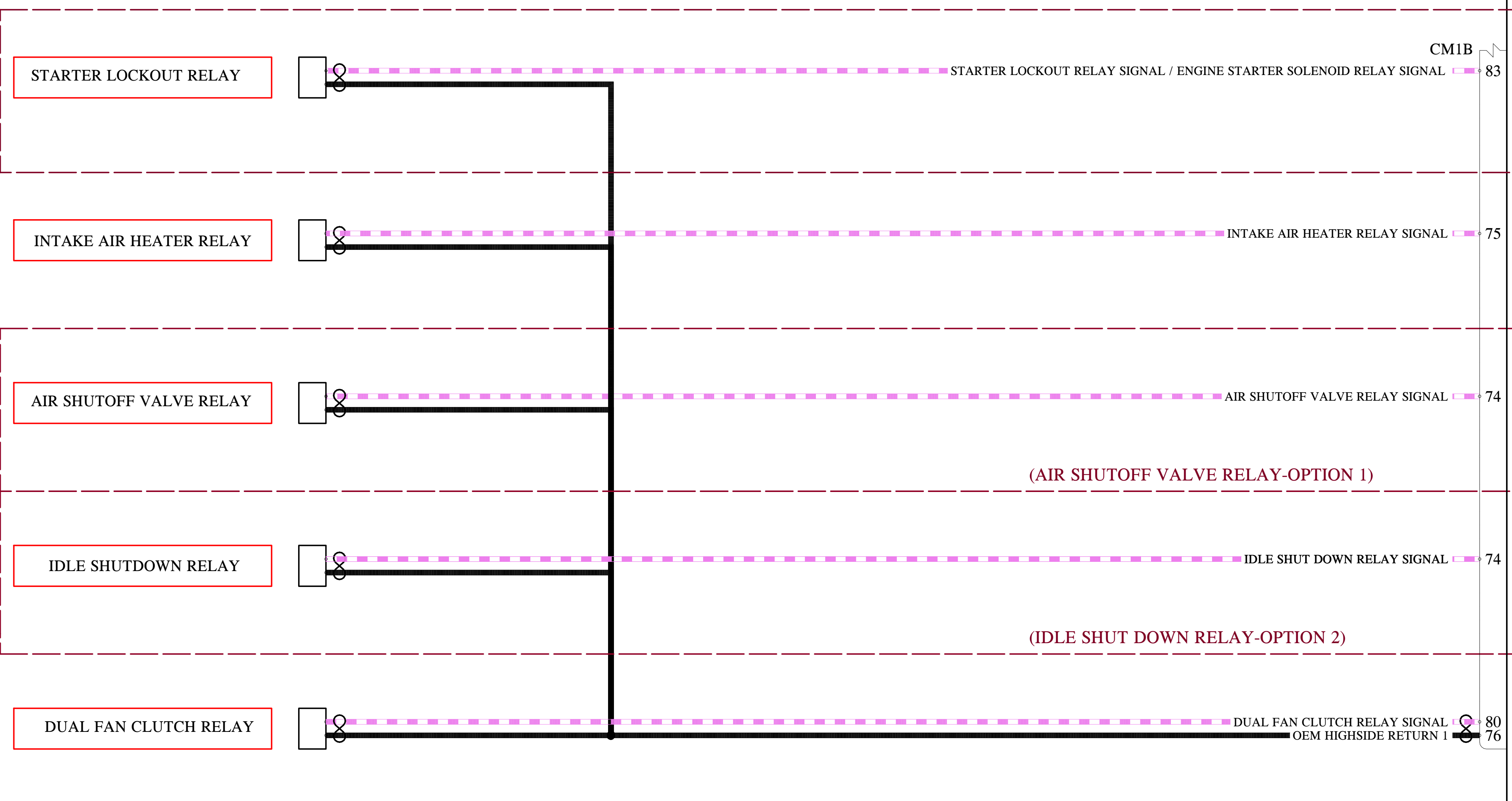
CM2350A

CMIB		
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: 161750-124		SIZE J		ITEM NAME: DIAGRAM, WIRING	
ENGINEERING STANDARD: FEP 00048356		I/O MATRIX: CM2350 PV IO MATRIX REVISION 21				IDENTIFIER: WIRING DIAGRAM	
INSPECTION STANDARD: FEP 00048355		DRAFTER: Alicia Martinez		DATE: APR 4 2018		CODE IDENT NO: -	
WIRE COLOR STANDARD: FEP 00046857		CHECKER: Mostafa Farag		DATE: APR 9 2018		ITEM NUMBER: 5446757	
INDUSTRY STANDARD: SAE J1939-15 SECTION 5.2.2		DESIGN APPROVAL: Sunil Dhulipati		DATE: APR 9 2018		REVISION: 0	
						SHEET 2 OF 5	

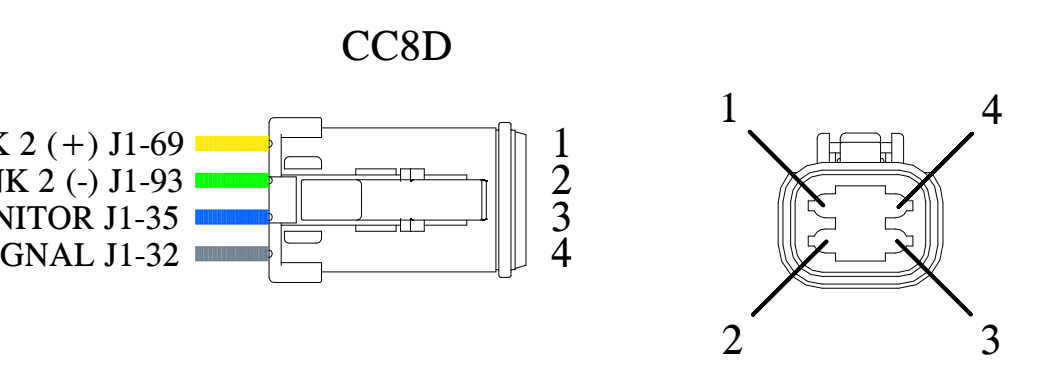


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- FOR ADDITIONAL INFORMATION REGARDING TWISTED PAIR/ TRIPLETS, REFER TO CEB00515
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CONNECTOR	DELPHI	13533441
CONNECTOR	DELPHI	15422510
TERMINAL CONN	DELPHI	AU
TERMINAL PLATING	TYCO	W4P
TPA/WEDGE	TYCO	NONE
ALT CONNECTOR	FRAMATOME	154201412

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



12 & 24 VOLT ENGINES

CONNECTOR	TYCO	4-1418390-1
CONNECTOR	TYCO	4-1418390-1
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	TYCO	AU
TPA/WEDGE	NONE	NONE
PART NUMBER		4384561

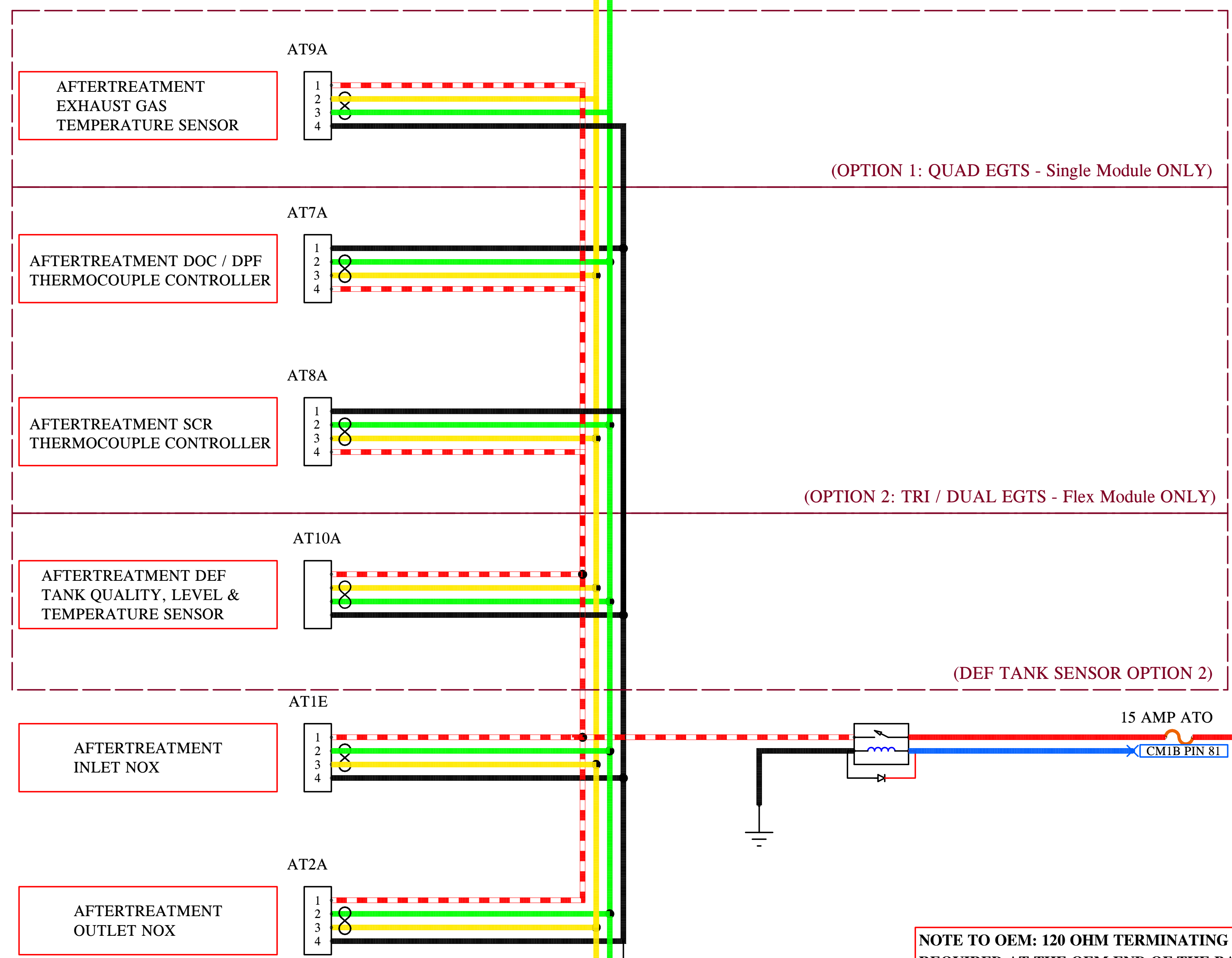
CONNECTOR	TYCO	1-1418390-1
CONNECTOR	TYCO	1-1418390-1
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	TYCO	AU
TPA/WEDGE	NONE	NONE
PART NUMBER		5461947

CONNECTOR	TYCO	2-1418390-1
CONNECTOR	TYCO	2-1418390-1
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	TYCO	AU
TPA/WEDGE	NONE	NONE
PART NUMBER		5461945

CONNECTOR	OEM	CEB00515
CONNECTOR	OEM	CEB00515
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	NA	AU
TPA/WEDGE	NONE	NONE
PART NUMBER		CEB00515

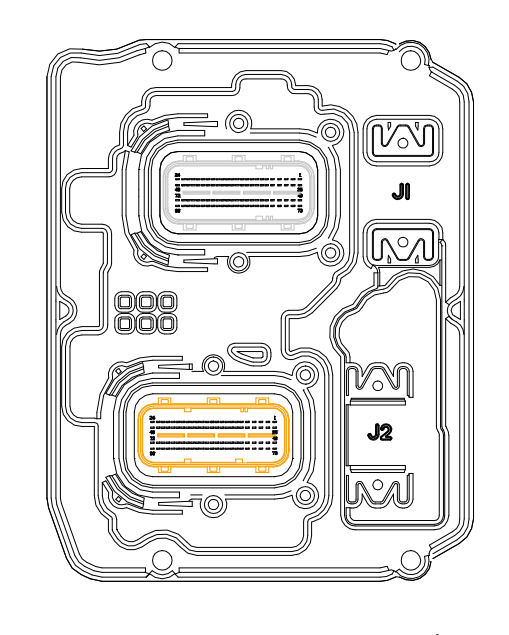
CONNECTOR	TYCO	2-1418390-1
CONNECTOR	TYCO	2-1418390-1
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	TYCO	AG
TPA/WEDGE	NONE	NONE
PART NUMBER		5491433

CONNECTOR	TYCO	1-1418390-1
CONNECTOR	TYCO	1-1418390-1
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	TYCO	AG
TPA/WEDGE	NONE	NONE
PART NUMBER		5491434



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

CM2350A



CONNECTOR	DELPHI	13964572
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

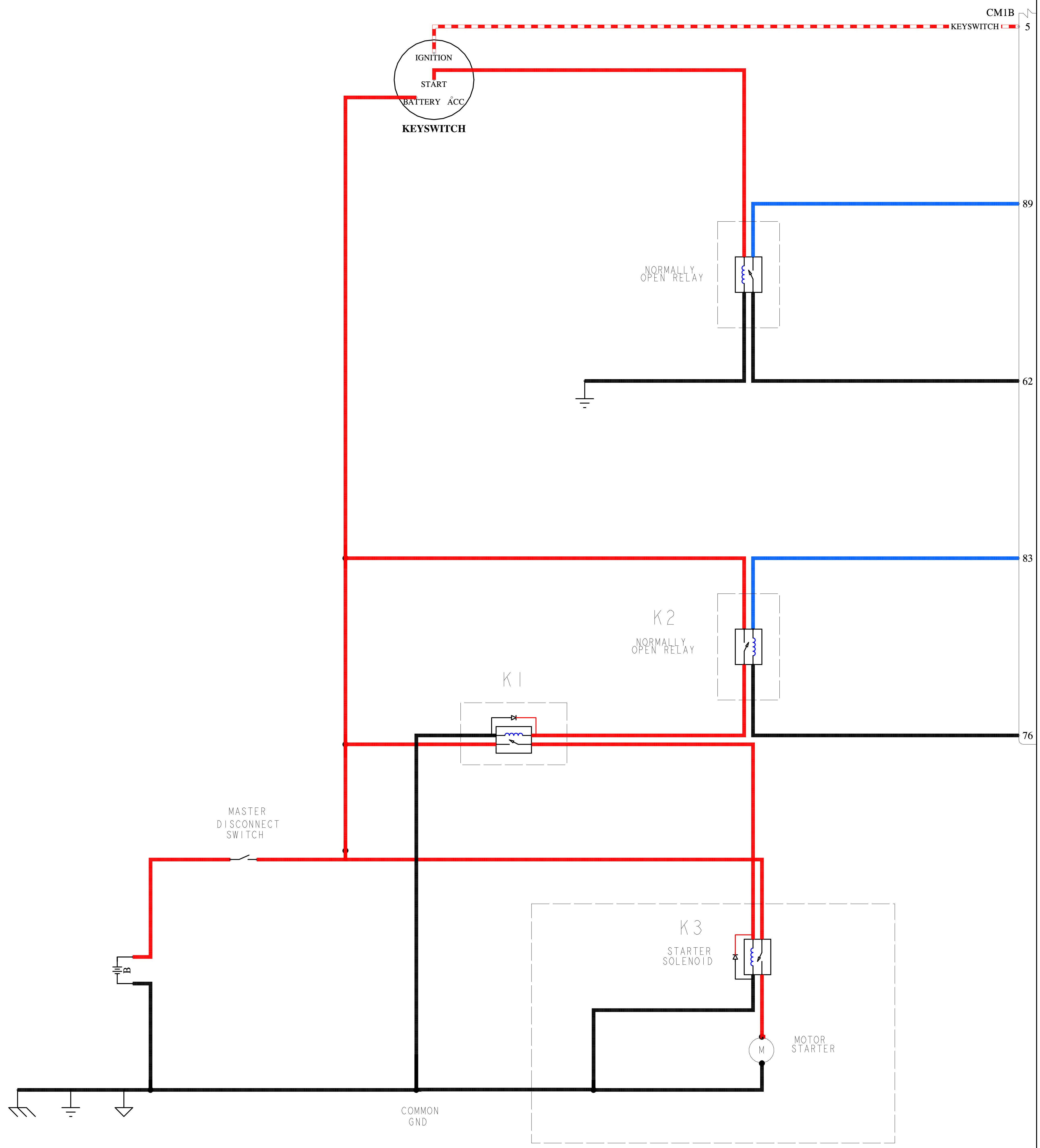
ENGINEERING STANDARD:	CES 10903	RELEASE NUMBER:	161750-124
ENGINEERING STANDARD:	FEP 00048356	I/O MATRIX:	CM2350 PV IO MATRIX REVISION 21
INSPECTION STANDARD:	FEP 00048355	DRAFTER:	Alicia Martinez
WIRE COLOR STANDARD:	FEP 00046857	CHECKER:	Mostafa Farag
INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Dhulipati

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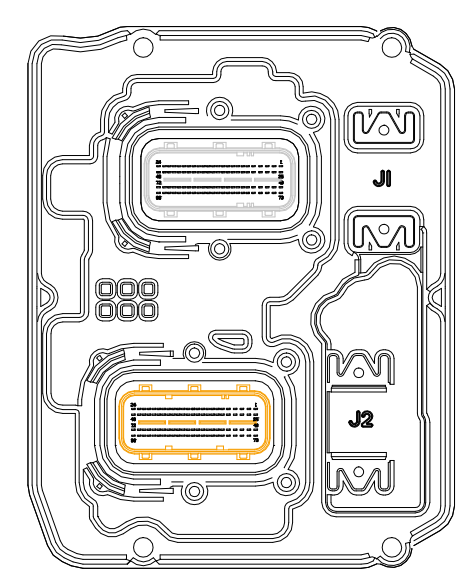
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SIZE	ITEM NAME:	DIAGRAM, WIRING
J	IDENTIFIER:	WIRING DIAGRAM
	CODE IDENT NO:	-
	ITEM NUMBER:	5446757
	REVISION:	0
	SHEET	3 OF 5

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



CM2350A

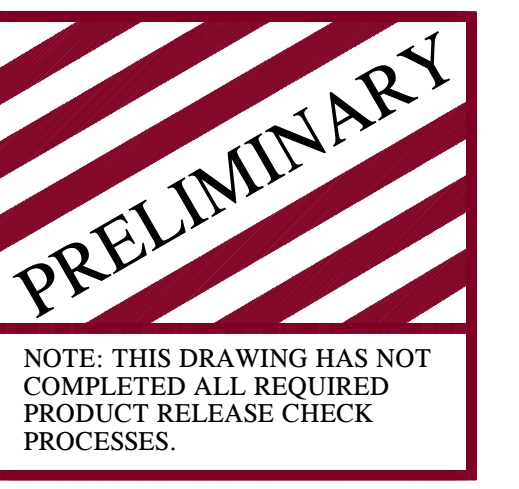


J1-GRAY
 J2-BROWN

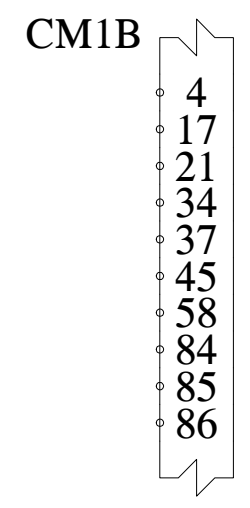
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ENGINEERING STANDARD:	CES 10903	RELEASE NUMBER:	1611750-124	SIZE J	ITEM NAME:	DIAGRAM, WIRING
ENGINEERING STANDARD:	FEP 00048356	I/O MATRIX:	CM2350 PV IO MATRIX REVISION 21		IDENTIFIER:	WIRING DIAGRAM
INSPECTION STANDARD:	FEP 00048355	DRAFTER:	Alicia Martinez	DATE:	APR 4 2018	CODE IDENT NO: -
WIRE COLOR STANDARD:	FEP 00046857	CHECKER:	Mostafa Farag	DATE:	APR 9 2018	ITEM NUMBER: 5446757
INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Dhulipati	DATE:	APR 9 2018	REVISION: 0
						SHEET 5 OF 5



J2 PINS NOT CONNECTED



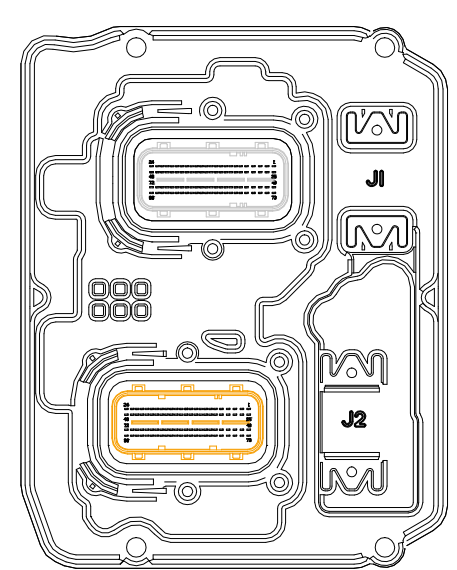
REVISION HISTORY TABLE

REVISION NUMBER	DATE	WIRING DIAGRAM CHANGES
0	APR 9 2018	Sheet 1: Note was added to the Aftertreatment DEF Line Heater section: Refer to CEB00514 for all Options Sheet 2: Vehicle Speed Sensor option 3 was removed, AT11A, part number was updated to F715600 it was 54200410 Spare Pressure Sensor was updated to Spare Analog Sensor. Spare Analog Sensor was added to connect with CC1D PIN 6 2-wire Fan Speed sensor was added connecting with CC1D PIN 14, Twisted Pair symbol removed: OEM Pressure Sensor 1 OEM Pressure Sensor 2, Reversible Fan Pitch Sensor and AT11A Aftertreatment DPF Differential Pressure Sensor AT7A was updated to AFTERTREATMENT DOC/DPF THERMOCOUPLE CONTROLLER and part number was updated from 4394974 to 5461947 AT8A was updated to AFTERTREATMENT SCR THERMOCOUPLE CONTROLLER and part number was updated from 4394976 to 5461945 Sheet 3: Tables 12/ 24 Volt Engine connectors charts were superseded with a single chart AT7A Connector was updated to 1-1418390-1, AT1E Part number was updated to 5491433, AT2A Part number was updated to 5491434 Twisted Pair symbols removed: OEM Temperature Sensor and Spare Temperature Sensor, Sheet 4: Normal Stop/Start was added to the wiring diagram. AEB table was updated: 4. For additional information regarding Twistes Pair/ Triplets, refer to CEB 00515
3	3 JAN 2018	Updated AT7A, AT8A & AT9A connector pin order (no change to pinout);
2	21 JUL 2017	Updated 4-pin crossover connector ref-des from CC8C to CC8D;
1	15 JUN 2017	Updated signal name for pin J2-65 to 'Reversible Fan Manual Purge Switch / Engine Air Shutoff Valve Position Signal'; Updated signal name for pin J2-69 to 'Reversible Fan Purge Inhibit / Engine Air Shutoff Valve Test (Switches)'; Updated power on indicator lamp from J1-76 (on the crossover) to J2-07; Update Part number for AT11A (Sheet 2) from 2871960 to 4383998; Updated Part Number for AT6A (Sheet 2) from 4354281 to 4377650; Updated Part Number for AT6B (Sheet 2)

REVISION HISTORY TABLE

REVISION NUMBER	DATE	WIRING DIAGRAM CHANGES
		from 4354282 to 4377649; Updated Part Number for AT5A (Sheet 2) from 4353810 to 4388105; Updated Part Number for AT7A/AT7B (Sheet 3) from 4307101/4307103 to 4394974; Updated Part Number for AT8A/AT8B (Sheet 3) from 4307100/4307102 to 4394974; Updated part number for AT9A/AT9B from 4358849 to 4384561; Updated part Number for AT1E/AT1C from 4384391 to 4384394; Updated Part Number for AT2A/AT2B from 4384392/4384401 to 4384393; Updated Part Number for AT10A/AT10B from AEB 15.231 to CEB00515; Updated AT11A Connector from Framatome to Delphi; Updated terminal plating for AT6A from 'AU' to 'AG'; Updated terminal plating for AT1E/AT1C/AT2A/AT2B (Sheet 3) from 'AG' to 'AU'; Updated terminal plating for AT5A (Sheet 2) from 'AU' to 'AG'; Updated Connector part number for AT5A (Sheet 2) from '2-141-8479-1' to '2-1418390-1';
0	8 DEC 2016	Initial Draft- Beta

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

ENGINEERING STANDARD:	CES 10903	RELEASE NUMBER:	161750-124		
ENGINEERING STANDARD:	FEP 00048356	I/O MATRIX:	CM2350 PV IO MATRIX REVISION 21		
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INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Dhulipati	DATE:	APR 9 2018

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SIZE	ITEM NAME:	DIAGRAM, WIRING
J	IDENTIFIER:	WIRING DIAGRAM
CODE IDENT NO:	-	ITEM NUMBER: 5446757
REVISION:	0	SHEET 4 OF 5