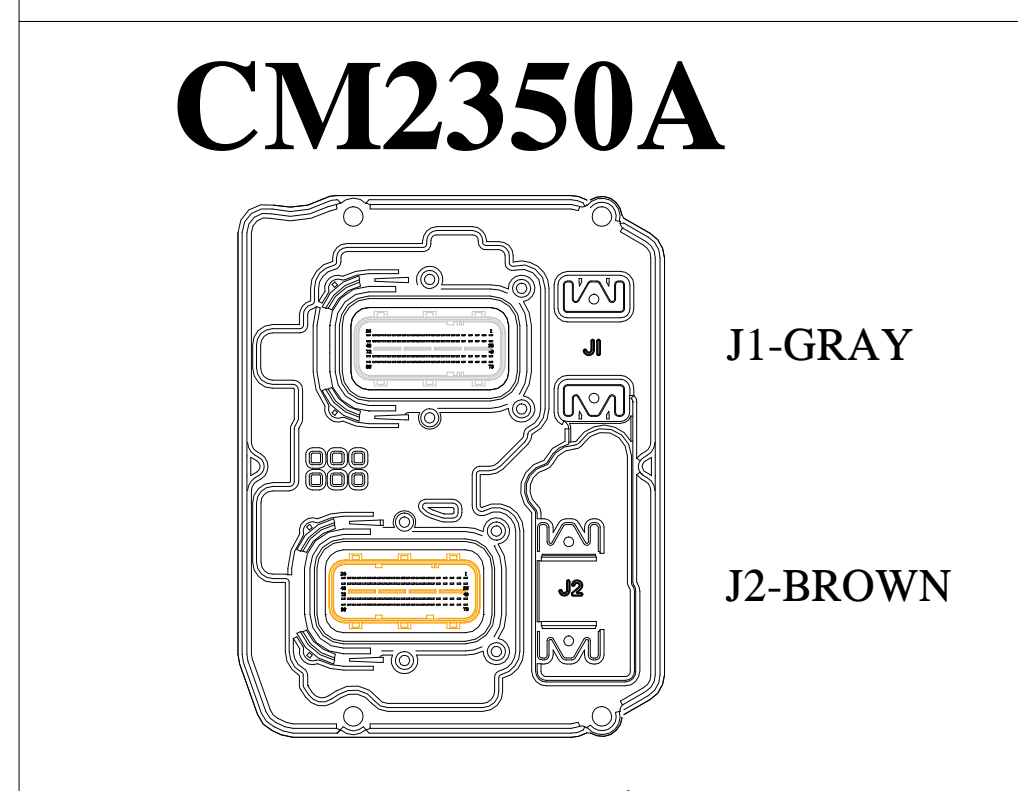
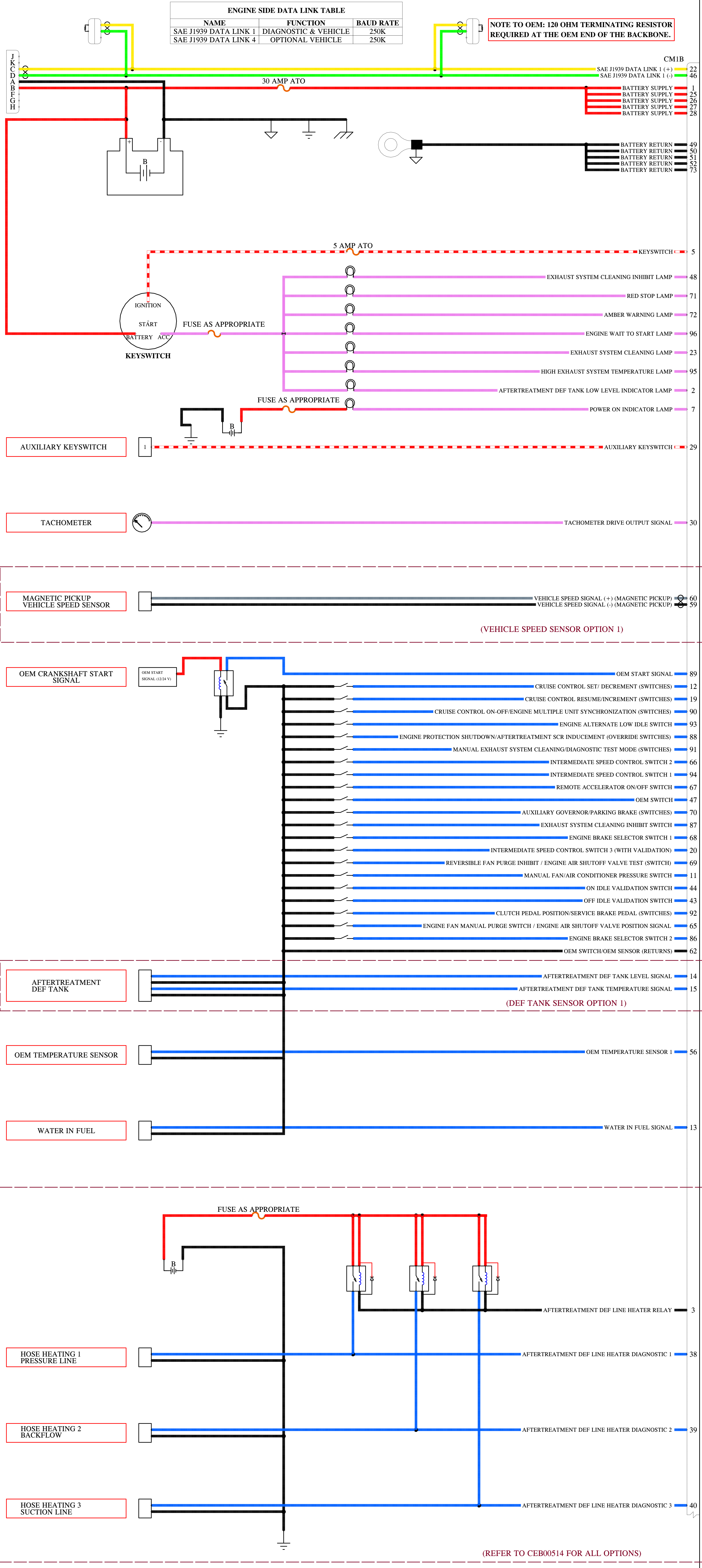


- ALL CONNECTIONS ON THE CM1B CONNECTOR (OEM SIDE) ARE ONLY INTENDED TO GIVE A GENERAL IDEA. TO GET ACCESS TO THE MOST UP TO DATE OEM INTERFACE REFER TO THE AEB.
- CUMMINS REQUIRES WIRING A SUPPRESSION DIODE ACROSS THE RELAY COIL IF THE RELAY DOES NOT CONTAIN AN INTEGRAL SUPPRESSION DIODE. THIS APPLIES TO ALL RELAYS USED IN THE SYSTEM.
- 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>



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:	162794-155
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	DATE:	MAR 07 2018
		DATE:	APR 09 2018
		DATE:	APR 09 2018

CUMMINS INC.

THIS DOCUMENT (AND THE INFORMATION SHOWN THERON) IS CONFIDENTIAL AND PROPRIETARY AND SHALL NOT BE DISCLOSED TO OTHERS IN HARD COPY OR ELECTRONIC FORM, REPRODUCED BY ANY MEANS, OR USED FOR ANY PURPOSE WITHOUT WRITTEN CONSENT OF CUMMINS INC.

SIZE: **J**

ITEM NAME: DIAGRAM, WIRING

IDENTIFIER: WIRING DIAGRAM

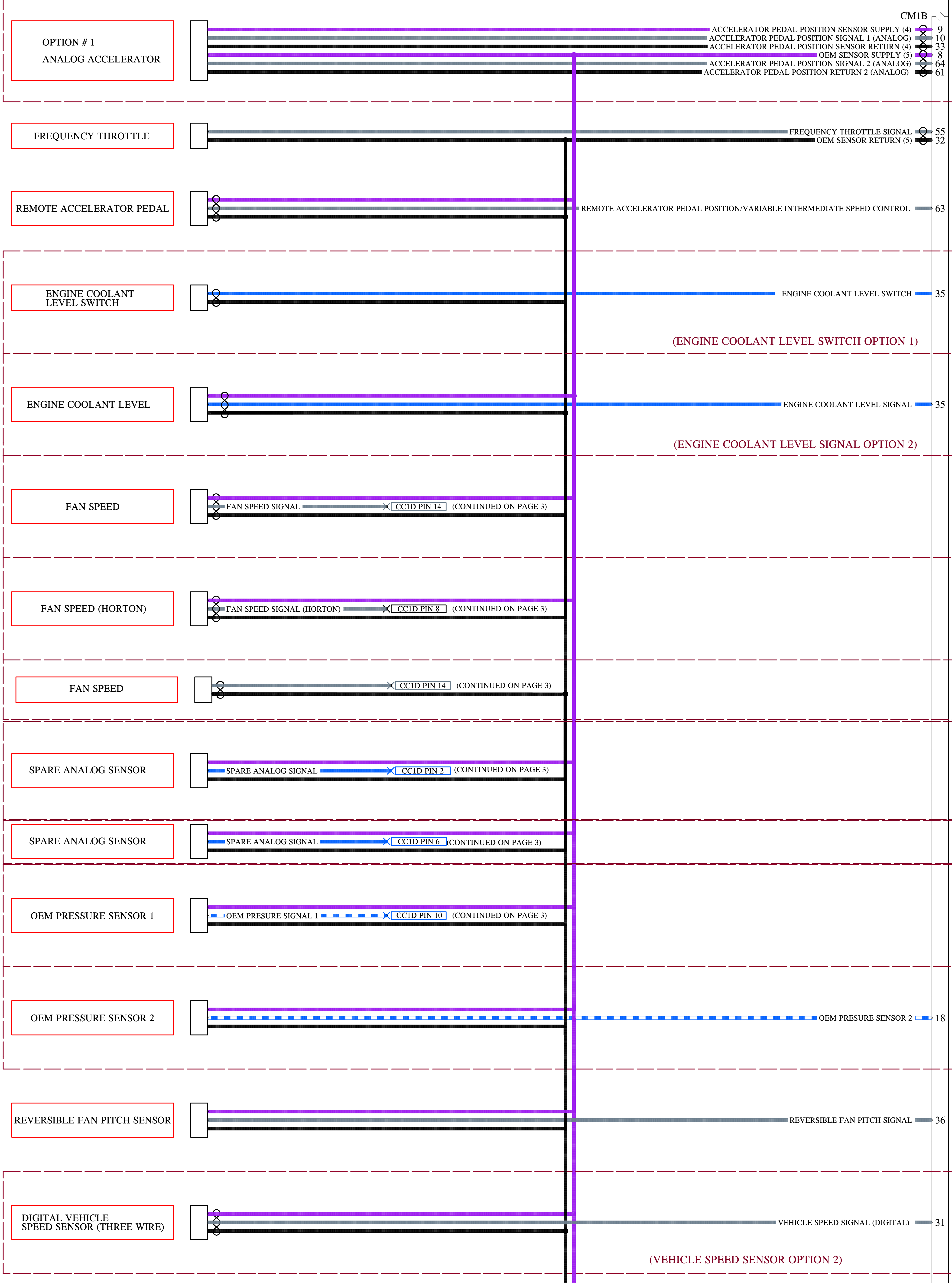
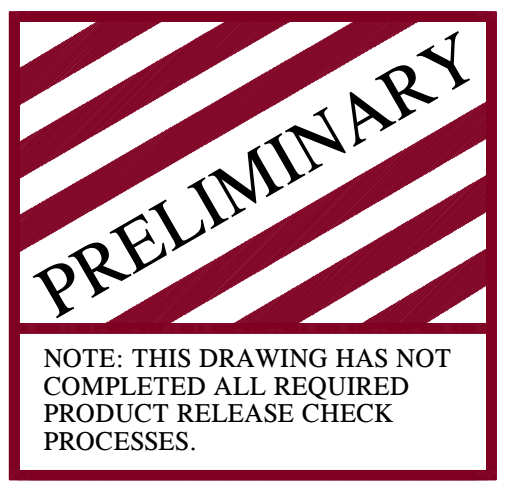
CODE IDENT NO: -

ITEM NUMBER: **5398547**

REVISION: 0

SHEET 1 OF 6

- 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.
- 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.
- 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>



Legend:

- (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	FRAMATOME	F715600
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	FRAMATOME	AU
TPA/WEDGE	NONE	NONE
PART NUMBER		4383998

12 VOLT ENGINE

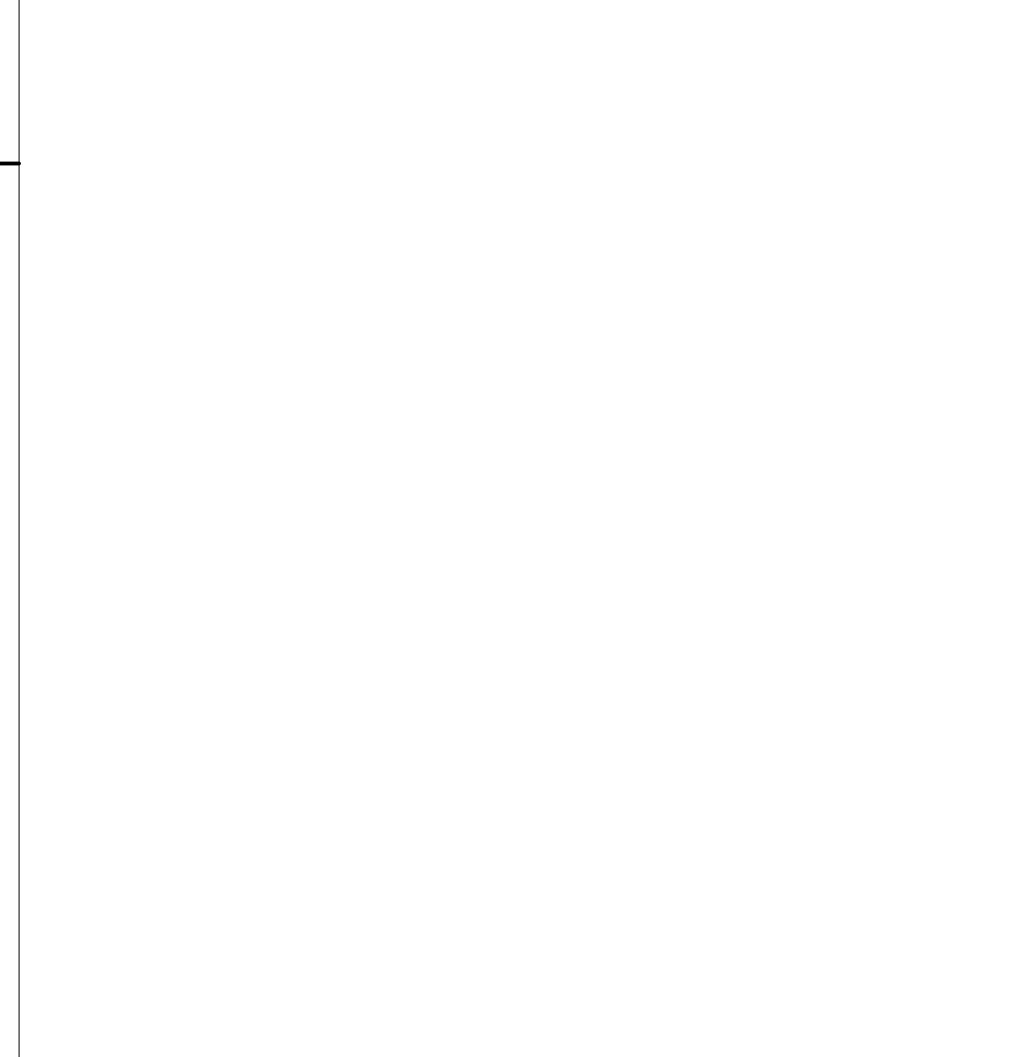
AT6A		
CONNECTOR	TYCO	1-1418479-1
ALT CONNECTOR	NONE	NONE
TERMINAL PLATING	TYCO	AG
TPA/WEDGE	NONE	NONE
PART NUMBER		4377650

24 VOLT ENGINE

AT6A		
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

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:	162794-155
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	DATE:	Mar 07 2018
		DATE:	APR 09 2018
		DATE:	APR 09 2018

CUMMINS INC.

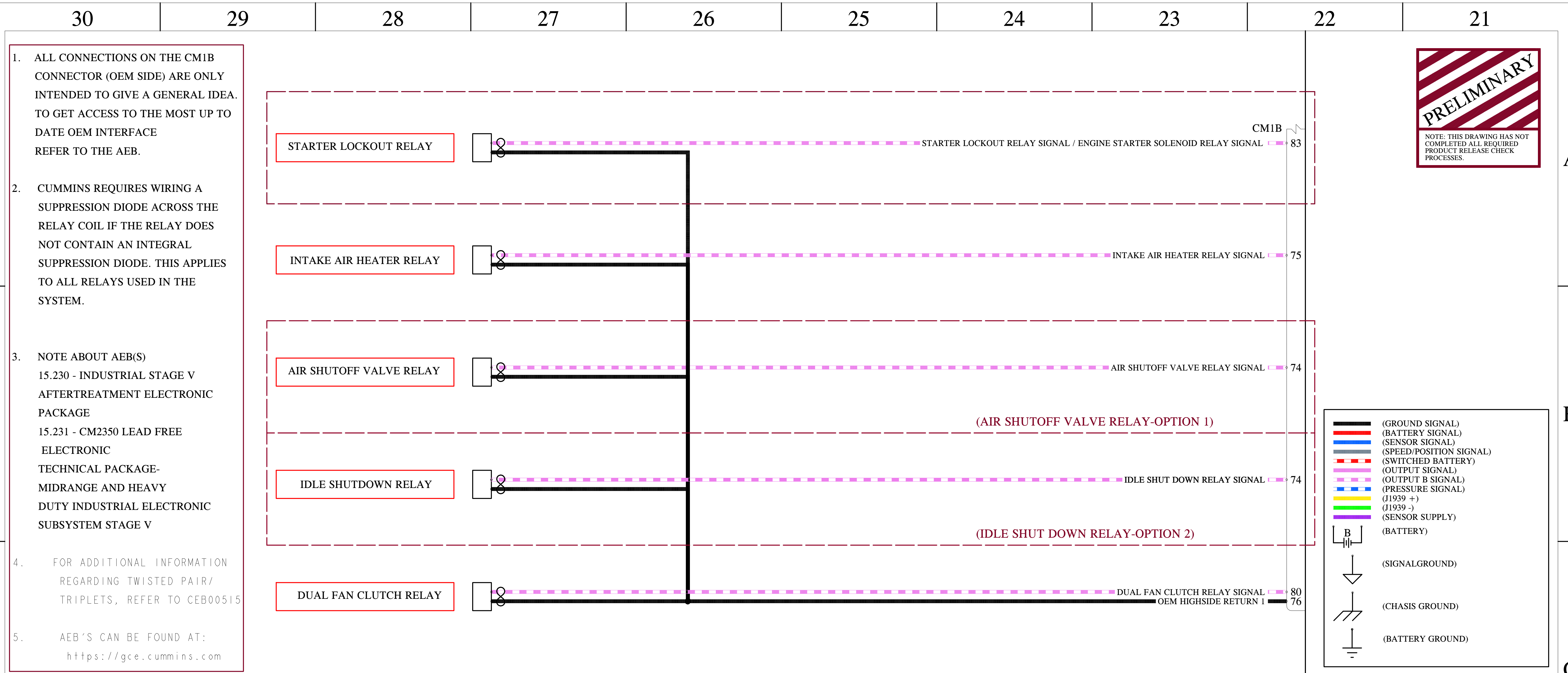
THIS DOCUMENT (AND THE INFORMATION SHOWN THEREON) IS CONFIDENTIAL AND PROPRIETARY AND SHALL NOT BE DISCLOSED TO OTHERS IN HARD COPY OR ELECTRONIC FORM, REPRODUCED BY ANY MEANS, OR USED FOR ANY PURPOSE WITHOUT WRITTEN CONSENT OF CUMMINS INC.

SIZE: **J**

ITEM NAME: DIAGRAM, WIRING
IDENTIFIER: WIRING DIAGRAM

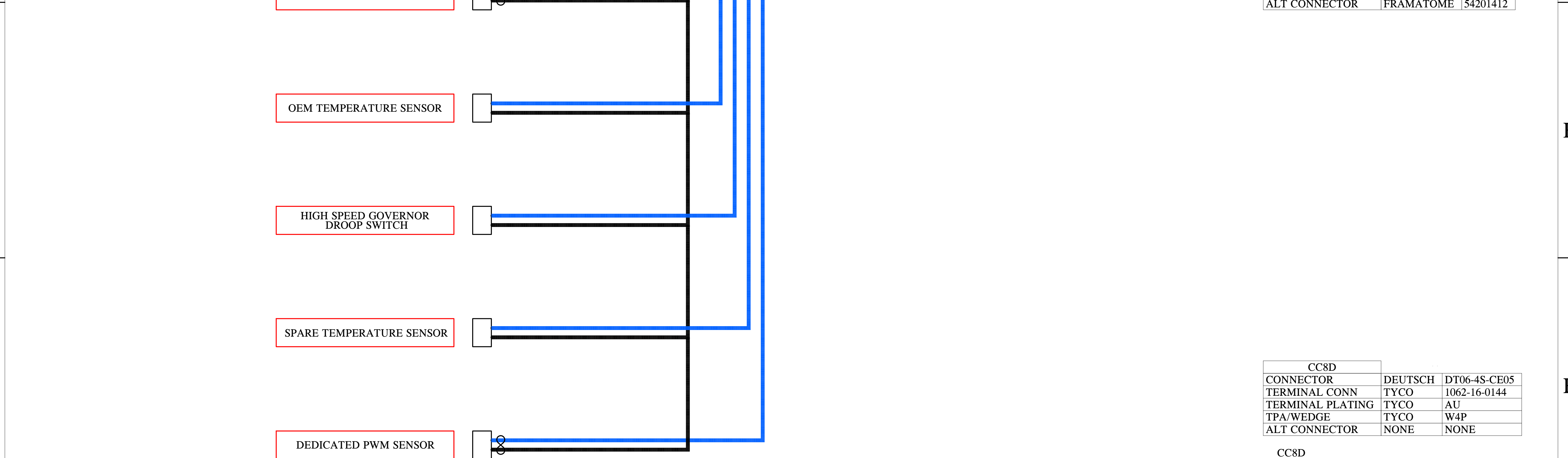
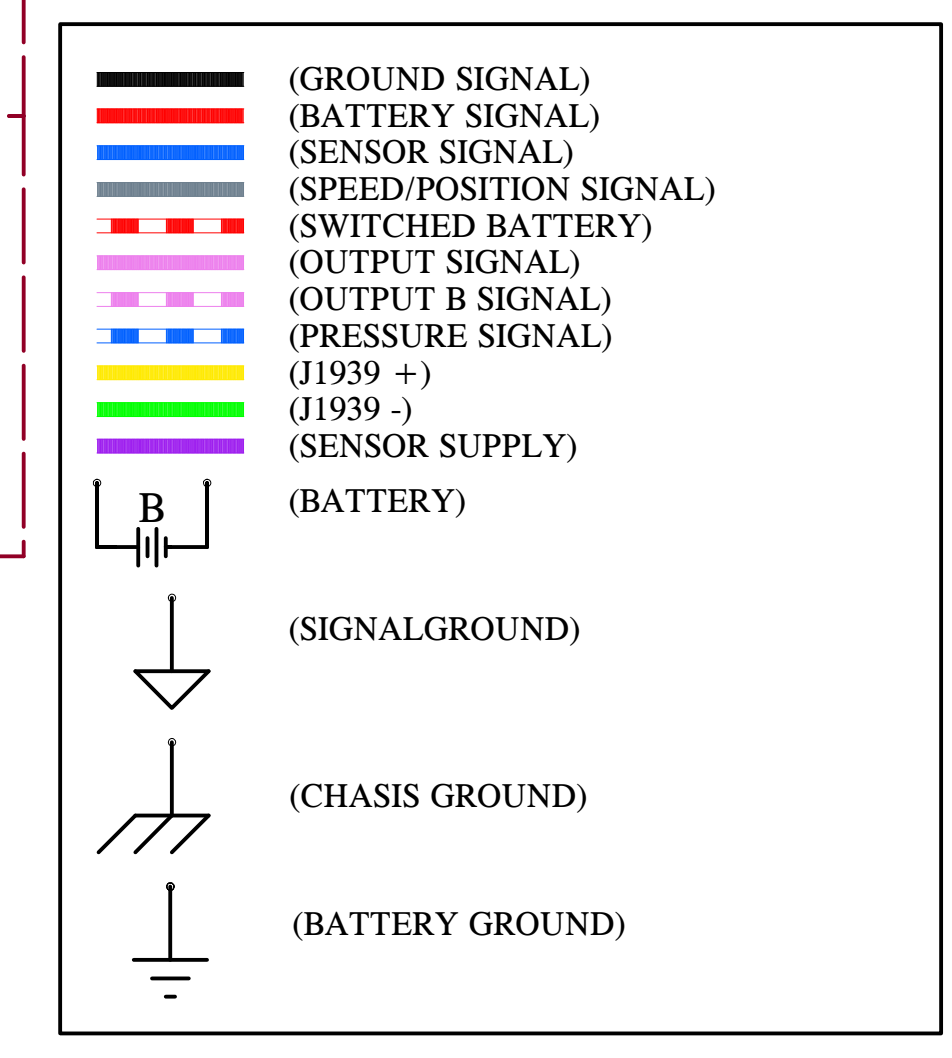
CODE IDENT NO: -
REVISION: 0

ITEM NUMBER: **5446758**
SHEET: 2 OF 6



- 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.
- 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.
- 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.



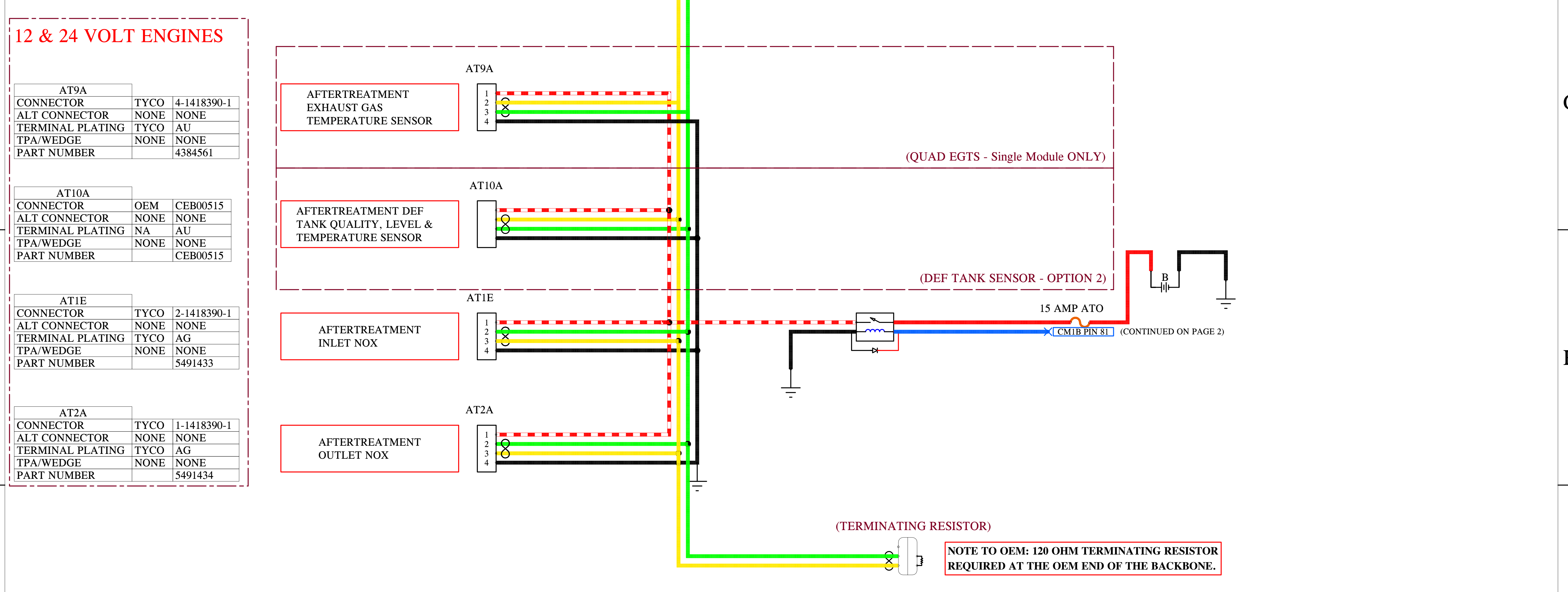
12 & 24 VOLT ENGINES

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

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

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



CM2350A

J1-GRAY
J2-BROWN

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:	162794-155		
ENGINEERING STANDARD:	FEP 00048356	I/O MATRIX:	CM2350 PV IO MATRIX REVISION 21		
INSPECTION STANDARD:	FEP 00048355	DRAFTER:	Alicia Martinez	DATE:	Mar 07 2018
WIRE COLOR STANDARD:	FEP 00046857	CHECKER:	Mostafa Farag	DATE:	APR 09 2018
INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Dhulipati	DATE:	APR 09 2018

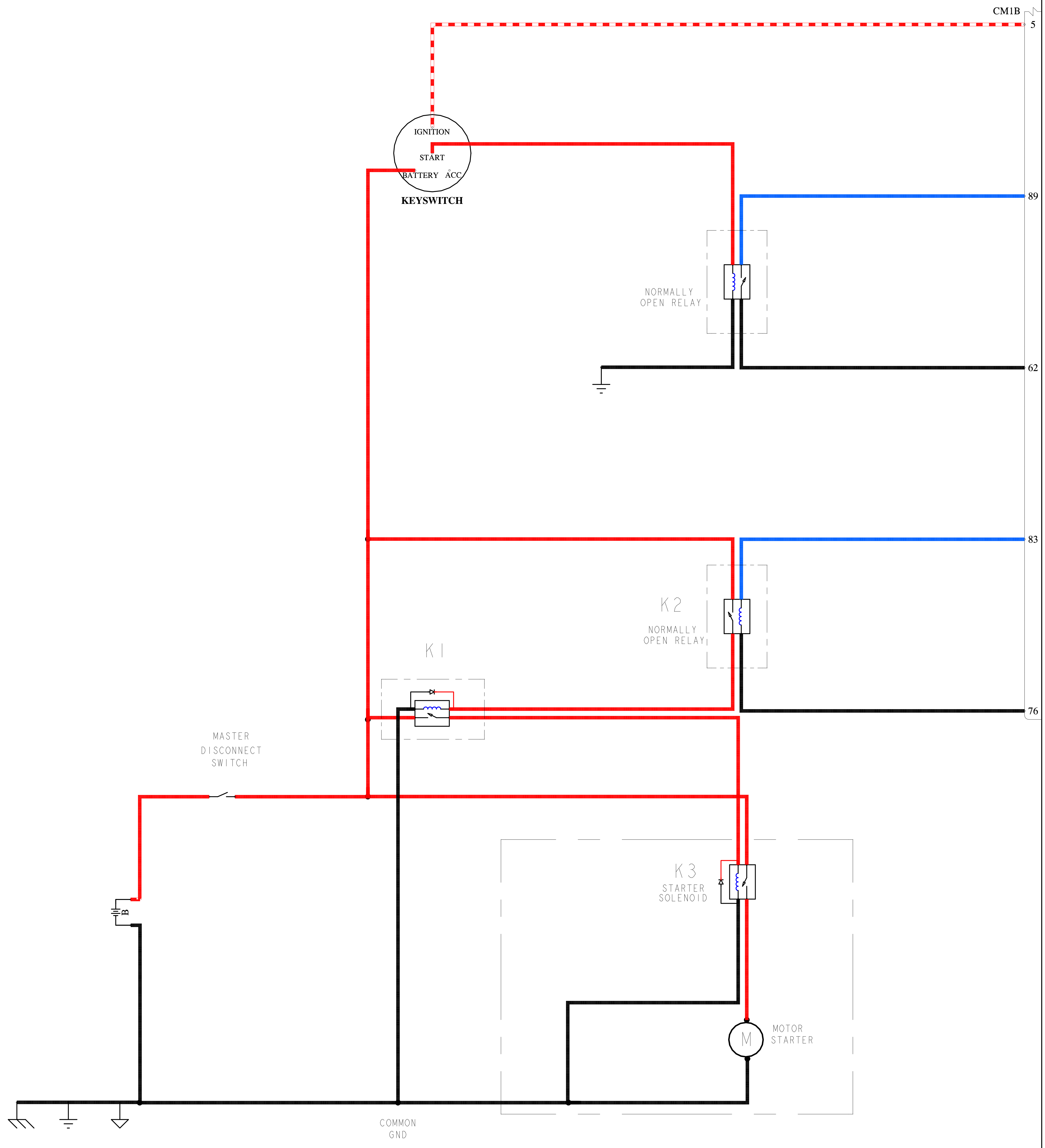
CUMMINS INC.

THIS DOCUMENT (AND THE INFORMATION SHOWN THERON) IS CONFIDENTIAL AND PROPRIETARY AND SHALL NOT BE DISCLOSED TO OTHERS IN HARD COPY OR ELECTRONIC FORM. REPRODUCED BY ANY MEANS, OR USED FOR ANY PURPOSE WITHOUT WRITTEN CONSENT OF CUMMINS INC.

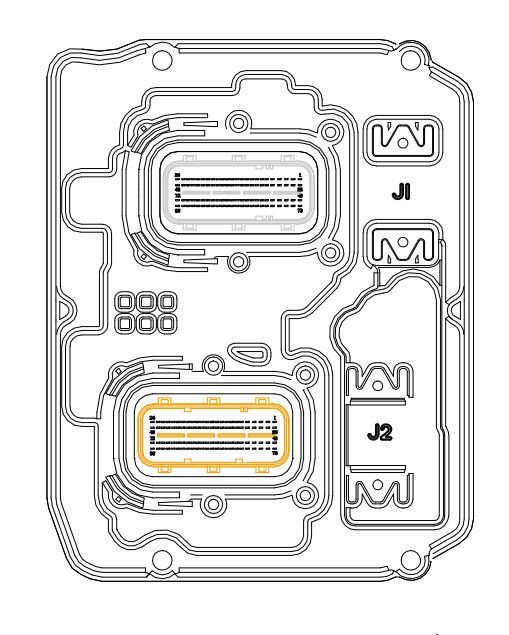
SIZE	J	ITEM NAME:	DIAGRAM, WIRING
IDENTIFIER:		WIRING DIAGRAM	
CODE IDENT NO:	-	ITEM NUMBER:	5446758
REVISION:	0	SHEET	3 OF 6

NORMAL STOP/START

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



CM2350A

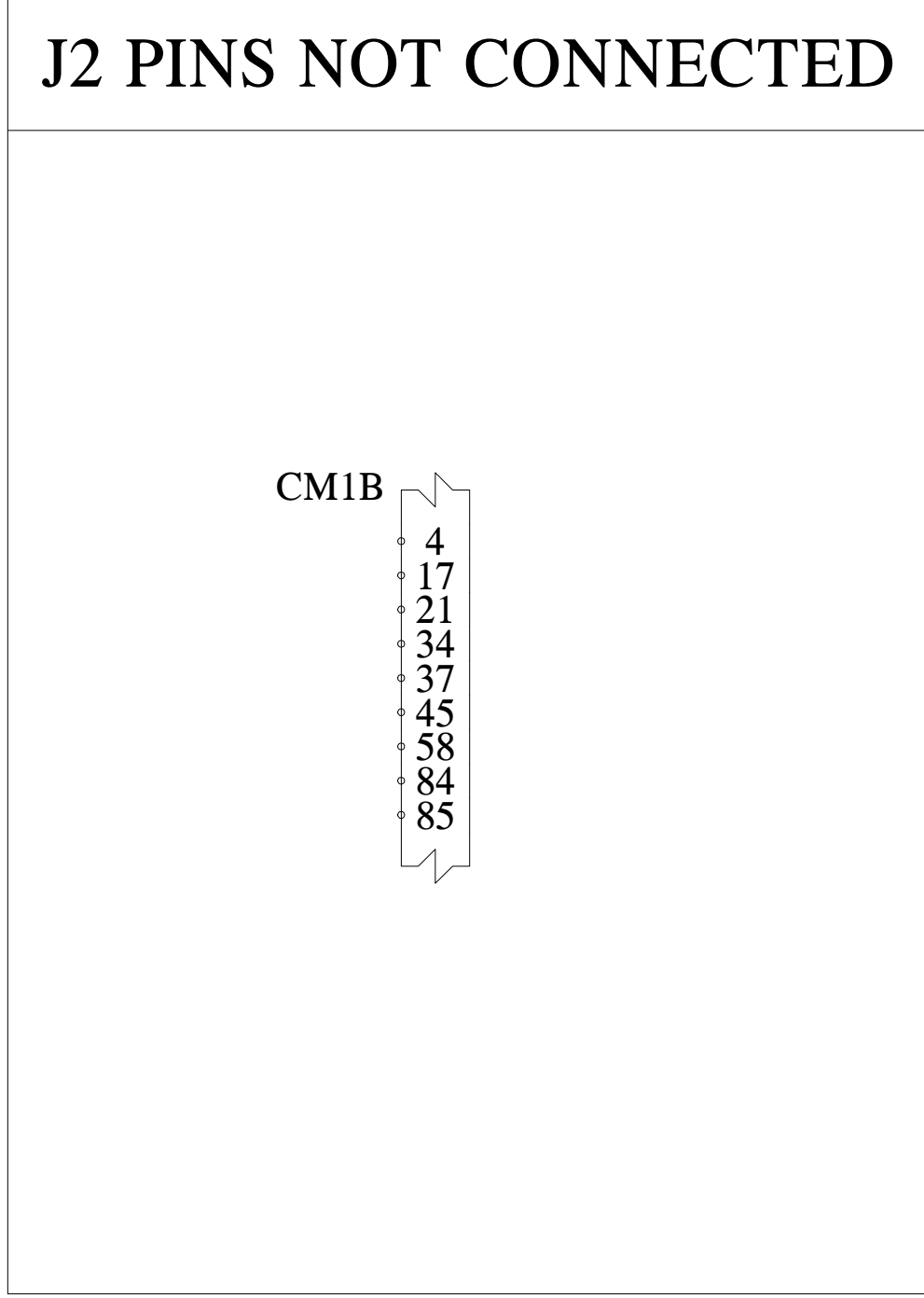
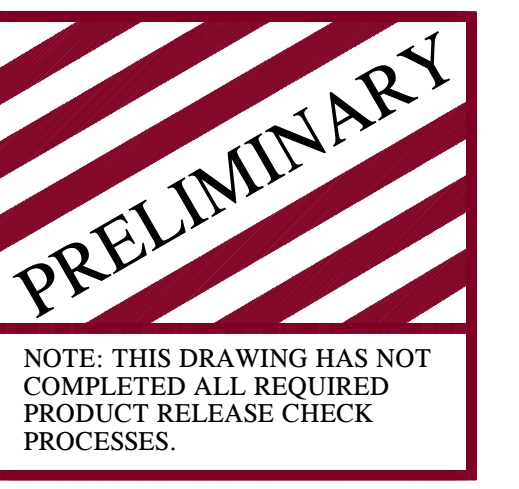


J1-GRAY
 J2-BROWN

CUMMINS INC.

THIS DOCUMENT (AND THE INFORMATION SHOWN THEREON) IS CONFIDENTIAL AND PROPRIETARY AND SHALL NOT BE DISCLOSED TO OTHERS IN HARD COPY OR ELECTRONIC FORM, REPRODUCED BY ANY MEANS, OR USED FOR ANY PURPOSE WITHOUT WRITTEN CONSENT OF CUMMINS INC.

ENGINEERING STANDARD:	CES 10903	RELEASE NUMBER:	UNSET	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:	MAR 7 2018	CODE IDENT NO: -	
WIRE COLOR STANDARD:	FEP 00046857	CHECKER:	Mostafa Farag	DATE:	APR 09 2018	ITEM NUMBER: 5446758	
INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Duliphati	DATE:	APR 09 2018	REVISION: 0	
						SHEET	6 OF 6



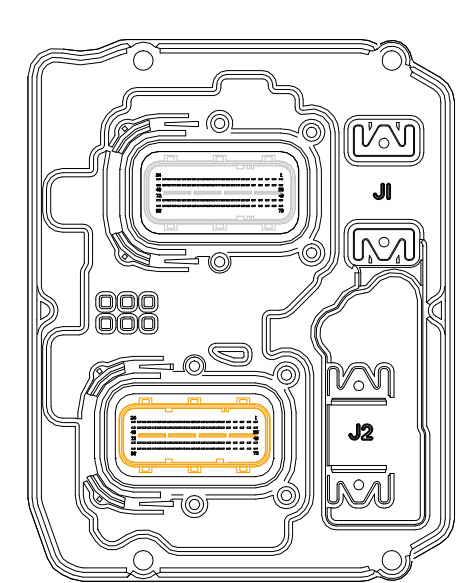
REVISION HISTORY TABLE

REVISION NUMBER	DATE	WIRING DIAGRAM CHANGES
4	14th MAR 2018	AT Line Heater Section, note Twisted pair symbol was removed from Spare Pressure1, OEM Pressure Sensor 1, OEM Pressure Sensor 2, Reversible Fan Pitch Sensor, AT DPF Differential Pressure Sensor, OEM Temperature Sensor, Spare Temperature Sensor (Sheet 2 and 3) AT11A connector part number was updated from 54200410 to F715600 (Sheet 2) AT1E part number was updated from 4384394 to 5461850, AT2A part number was updated from 4384393 to 5461851 12/ 24 Volt Engines charts were superseded with a single chart (Sheet 3) Digital VSS Option3 was removed (Sheet 2), Starter Diagram was added at Page No.4 was added, 2 Pin Fan Speed sensor was added (Sheet 2) AEB chart was updated No 4, "For additional information regarding twisted pairs/triplets refer to CEB00515", No. 5 "AEB's Can be found at : https://gce.cummins.com"
3	3 JAN 2018	Removed AT7 & AT8 (Tri/Dual) sensors;
2	21 JUL 2017	Updated 4-pin crossover connector ref-des on Sheet 3 from CC8C to CC8D;
1	3 MAY 2017	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) 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

REVISION HISTORY TABLE

REVISION NUMBER	DATE	WIRING DIAGRAM CHANGES
0	7 DEC 2016	terminal plating for AT6A from 'AU' to 'AG'; Updated terminal plating for AT1E/AT1C/AT2A/AT2B from 'AG' to 'AU'; Updated J1-76 on pin 5 of crossover from power on indicator lamp to Spare Output Driver Signal; Updated connector part number fro AT5A (Sheet 2) from '2-141-8479-1' to '2-1418390-1'; Updated terminal plating for AT5A (Sheet 2) from 'AU' to 'AG'; Initial Draft-Beta

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:	162794-155
ENGINEERING STANDARD:	FEP 00048356	I/O MATRIX:	CM2350 PV IO MATRIX REVISION 20
INSPECTION STANDARD:	FEP 00048355	DRAFTER:	Alicia Martinez
		DATE:	Mar 07 2018
WIRE COLOR STANDARD:	FEP 00046857	CHECKER:	Hareem Illa
		DATE:	APR 09 2018
INDUSTRY STANDARD:	SAE J1939-15 SECTION 5.2.2	DESIGN APPROVAL:	Sunil Dhulipati
		DATE:	APR 09 2018

CUMMINS INC.

THIS DOCUMENT (AND THE INFORMATION SHOWN THERON) IS CONFIDENTIAL AND PROPRIETARY AND SHALL NOT BE DISCLOSED TO OTHERS IN HARD COPY OR ELECTRONIC FORM, REPRODUCED BY ANY MEANS, OR USED FOR ANY PURPOSE WITHOUT WRITTEN CONSENT OF CUMMINS INC.

SIZE	ITEM NAME:	DIAGRAM, WIRING
J	IDENTIFIER:	WIRING DIAGRAM
CODE IDENT NO:	-	ITEM NUMBER: 5446758
REVISION:	0	SHEET 4 OF 6