

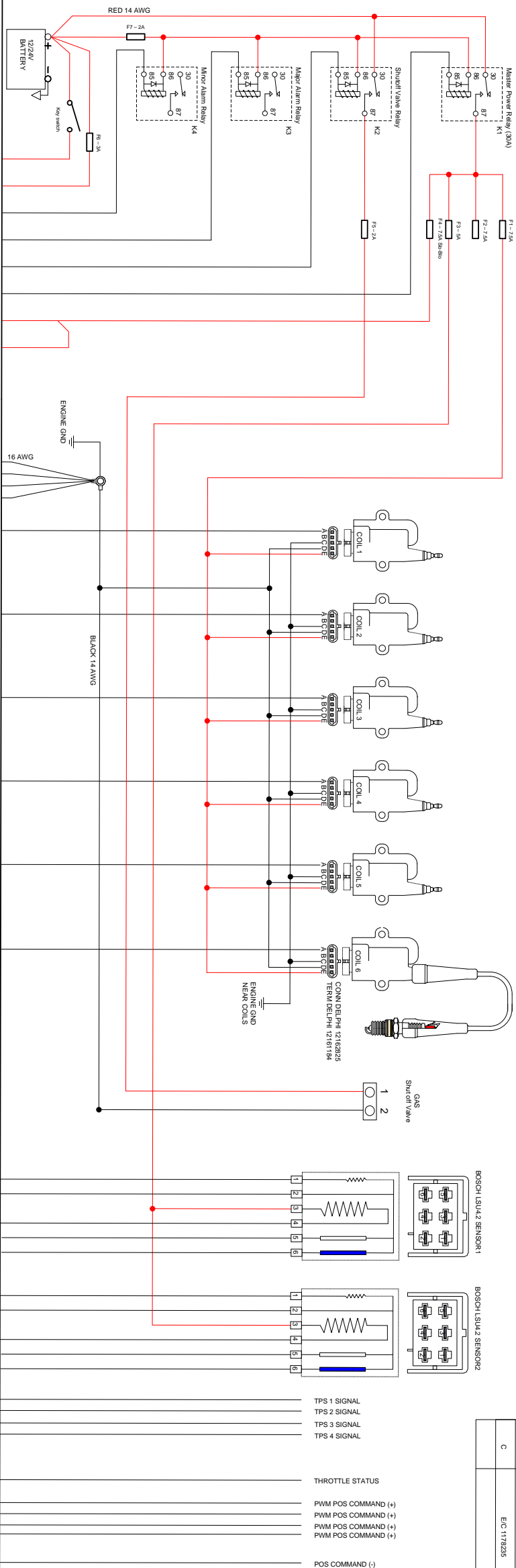
Note 1: On engine wiring and wiring in an environment with a temperature > 50 degC, cable rating of a general purpose polyethylene insulated wire with a minimum insulation temperature of 105 degC should be used. When higher temperatures are present higher cable insulation rating should be used.

Note 2: All wiring is 18 AWG, except where marked different.

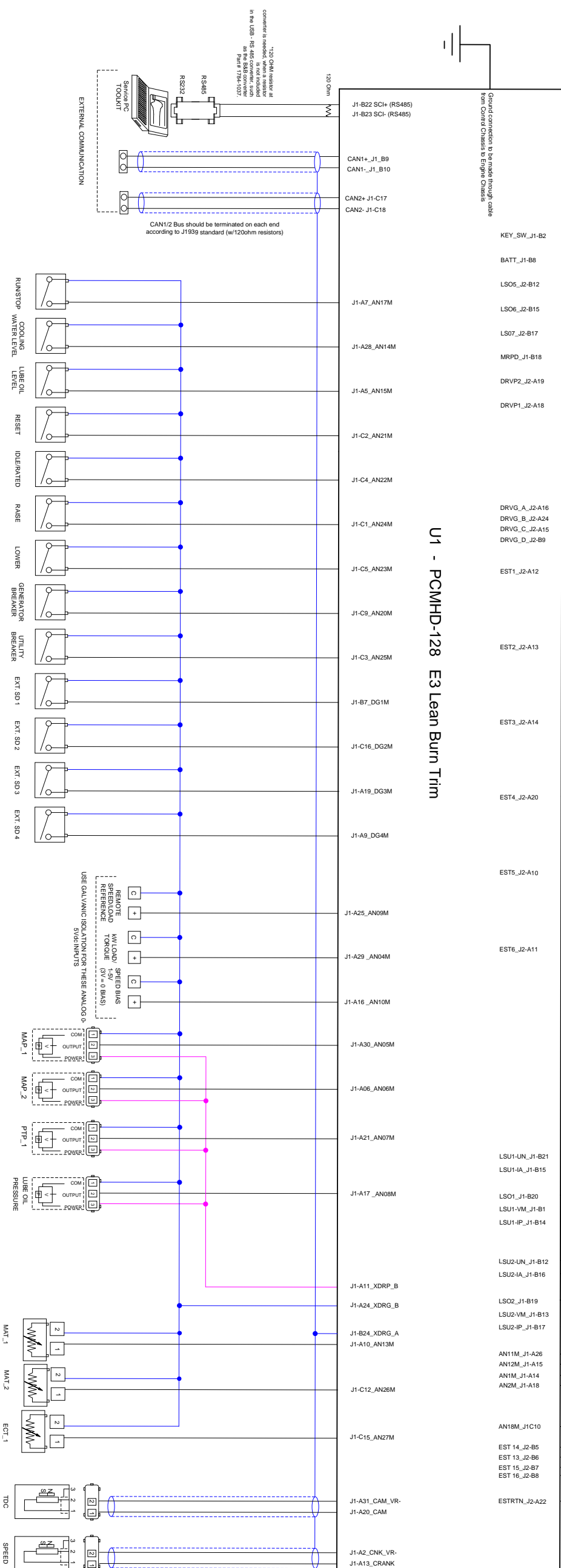
Note 3: This drawing shows all I/O options. See application manual for I/O option overview

Note 4: For J1939 wiring, cable per ISO 11895-2, max. length of 40m, nominal resistance of line is 25 mΩ/m, nominal specific propagation delay of 5 ns/m.

Rev	Description	Drawn	Date	Approved
NEW	EC 111354-1	ASCHEN	APR 2007	ASCHEN
A	EC 111354-4	ASCHEN	APR 2009	ASCHEN
B	EC 1180180	ASCHEN	MAR 2012	ASCHEN
C	EC 1178255	AZMEN	MAR 2013	



U1 - PCMHD-128 E3 Lean Burn Trim

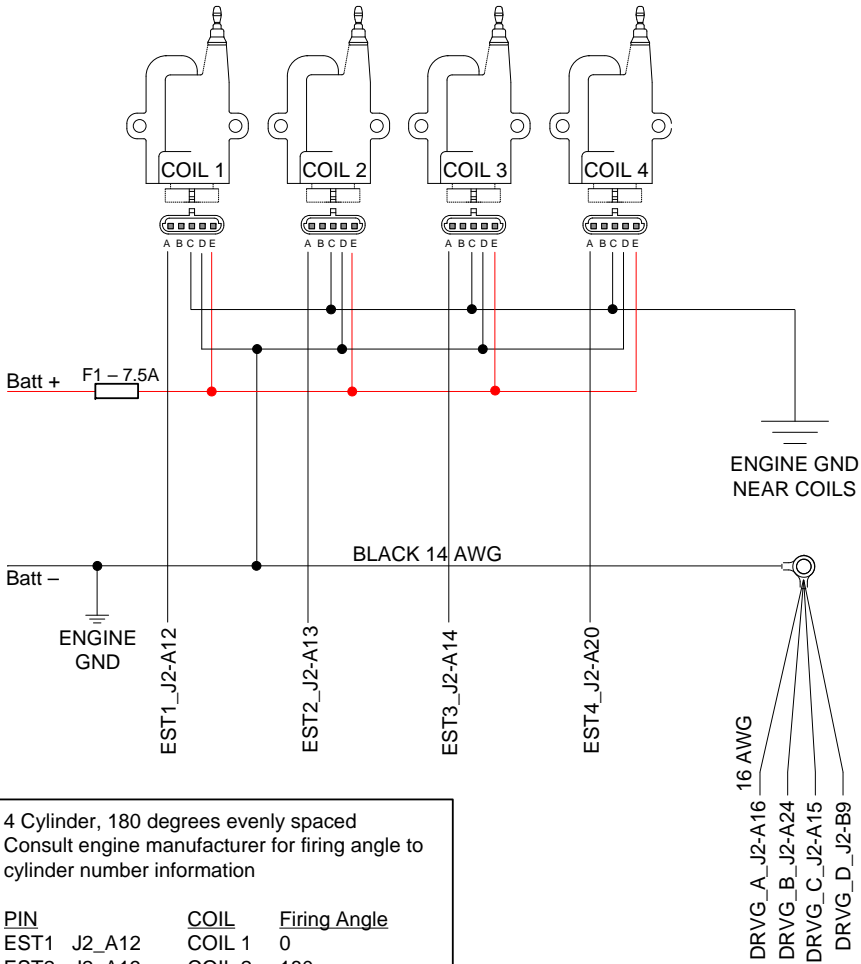


WOODWARD NEDERLAND B.V. ENGINE CONTROLS DIVISION HOOFDDORP, THE NETHERLANDS

DIAGRAM- CONTROL WIRING E3 Lean Burn Trim System

SIZE	CAGE CODE	DWG NO	REV
A3		9971-1266	C
SCALE		SHEET	1 OF 5

Note 1: On engine wiring and wiring in an environment with a temperature > 50 degr. C, cable rating of a general purpose polyethylene insulated wire with a minimum insulation temperature of 105 degr. C should be used. When higher temperatures are present higher cable insulation rating should be used.
Note 2: All wiring is 18 AWG, except where marked different
Note 3: This drawing shows all I/O options. See application manual for I/O option overview
Note 4: For J1939 wiring, cable per ISO 11898-2; max. length of 40m; nominal resistance of line is 25 mΩ/m; nominal specific propagation delay of 5 ns/m.



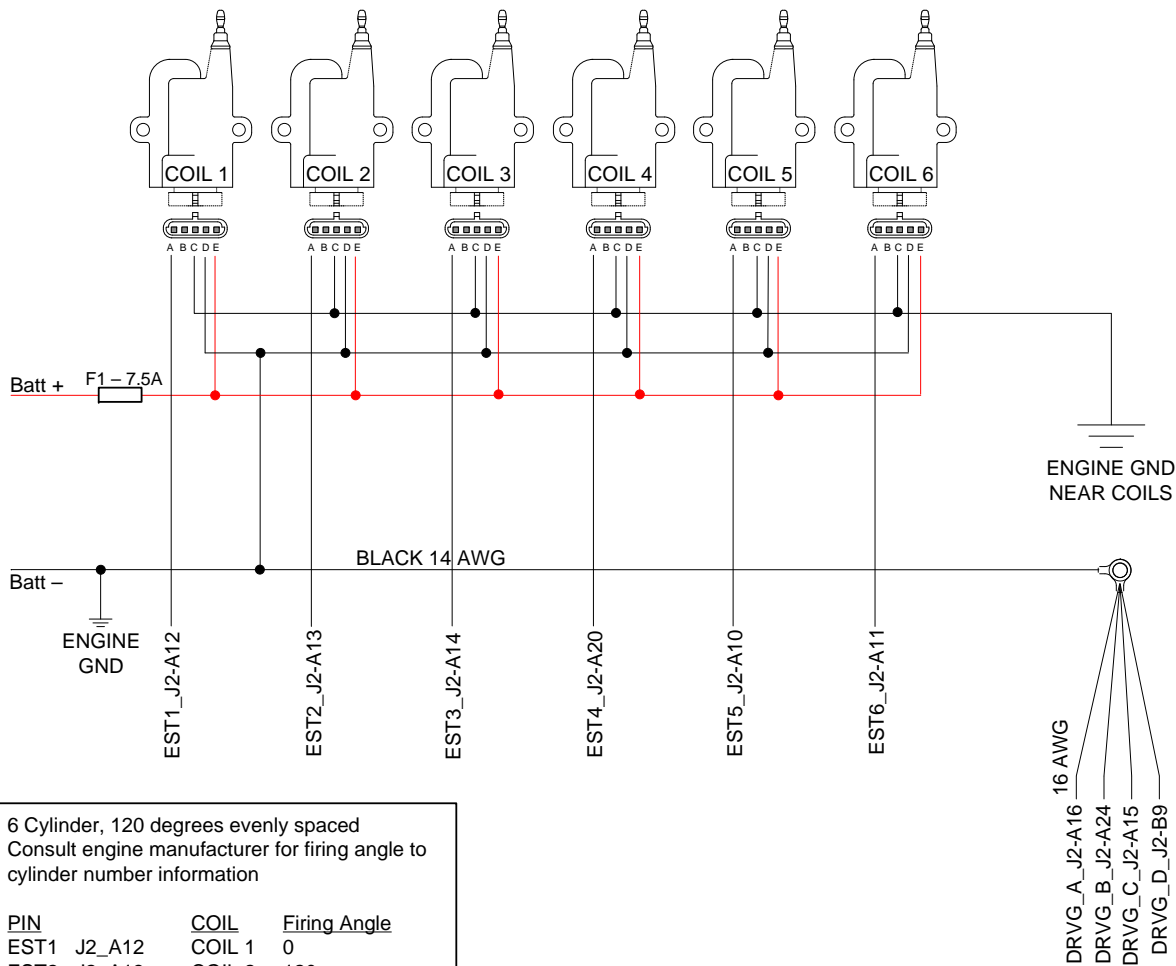
4 Cylinder, 180 degrees evenly spaced Consult engine manufacturer for firing angle to cylinder number information				
PIN		COIL		Firing Angle
EST1	J2_A12	COIL 1		0
EST2	J2_A13	COIL 2		180
EST3	J2_A4	COIL 3		360
EST4	J2_A20	COIL 4		540

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ENGINE CONTROLS DIVISION
HOOFDDORP, THE NETHERLANDS

DIAGRAM- CONTROL WIRING
E3 Lean Burn Trim System

SIZE A3	CAGE CODE	DWG NO 9971-1266	REV B
SCALE		SHEET 2 OF 5	

Note 1: On engine wiring and wiring in an environment with a temperature > 50 degr. C, cable rating of a general purpose polyethylene insulated wire with a minimum insulation temperature of 105 degr. C should be used. When higher temperatures are present higher cable insulation rating should be used.
Note 2: All wiring is 18 AWG, except where marked different
Note 3: This drawing shows all I/O options. See application manual for I/O option overview
Note 4: For J1939 wiring, cable per ISO 11898-2; max. length of 40m; nominal resistance of line is 25 mΩ/m; nominal specific propagation delay of 5 ns/m.



6 Cylinder, 120 degrees evenly spaced Consult engine manufacturer for firing angle to cylinder number information		
PIN	COIL	Firing Angle
EST1 J2_A12	COIL 1	0
EST2 J2_A13	COIL 2	120
EST3 J2_A4	COIL 3	240
EST4 J2_A20	COIL 4	360
EST5 J2_A10	COIL 5	480
EST6 J2_A11	COIL 6	600

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DIAGRAM- CONTROL WIRING
E3 Lean Burn Trim System

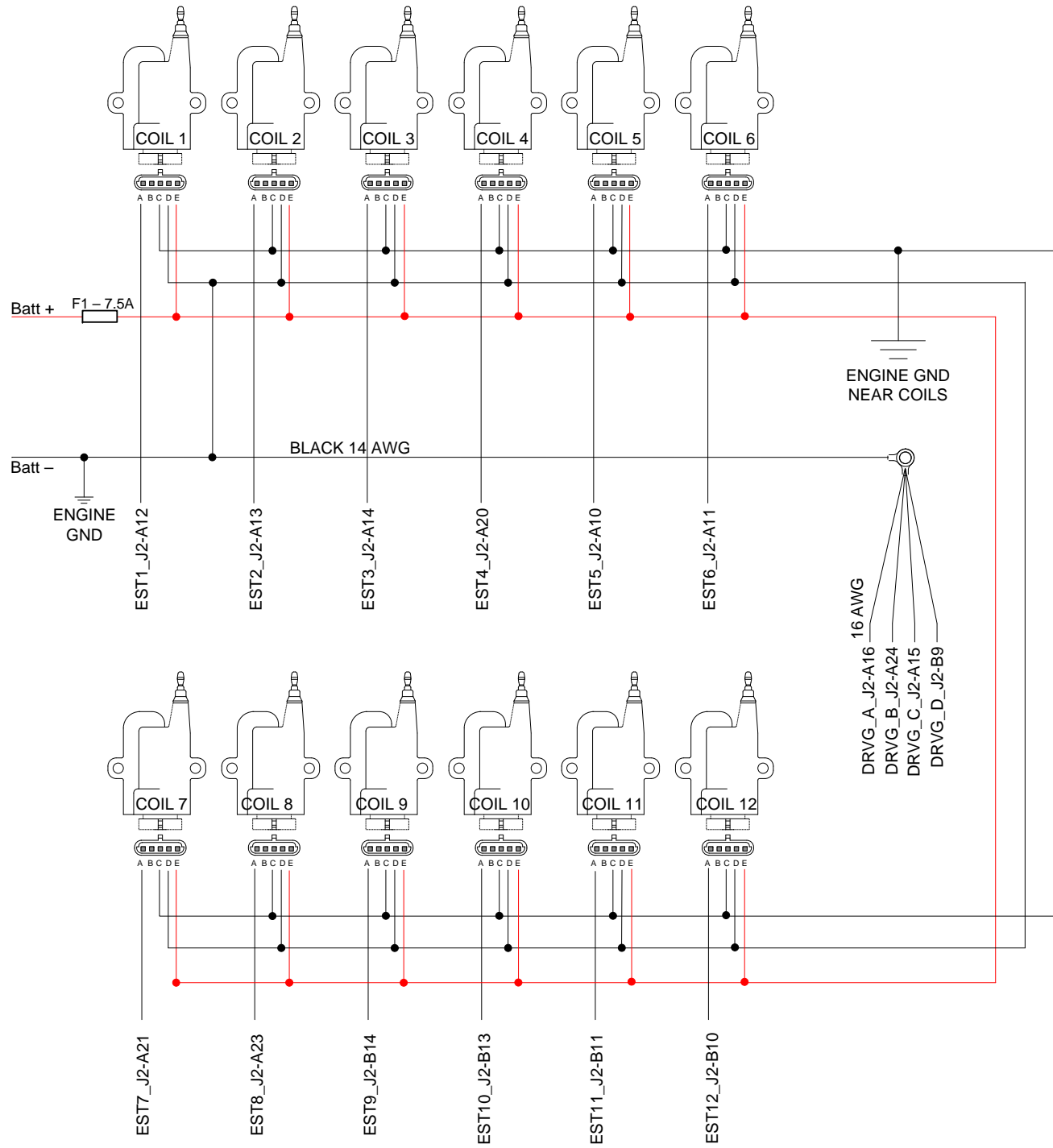
SIZE A3	CAGE CODE	DWG NO 9971-1266	REV B
SCALE	SHEET 3 OF 5		

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PIN		COIL	Firing Angle
EST1	J2_A12	COIL 1	0
EST2	J2_A13	COIL 2	90
EST3	J2_A4	COIL 3	180
EST4	J2_A20	COIL 4	270
EST5	J2_A10	COIL 5	360
EST6	J2_A11	COIL 6	450
EST7	J2_A21	COIL 7	540
EST8	J2_A23	COIL 8	630

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Note 1: On engine wiring and wiring in an environment with a temperature > 50 degr. C, cable rating of a general purpose polyethylene insulated wire with a minimum insulation temperature of 105 degr. C should be used. When higher temperatures are present higher cable insulation rating should be used.
Note 2: All wiring is 18 AWG, except where marked different
Note 3: This drawing shows all I/O options. See application manual for I/O option overview
Note 4: For J1939 wiring, cable per ISO 11898-2; max. length of 40m; nominal resistance of line is 25 mΩ/m; nominal specific propagation delay of 5 ns/m.



12 Cylinder, 90 degrees V block
Consult engine manufacturer for firing angle to
cylinder number information

PIN	COIL	Firing Angle
EST1 J2_A12	COIL 1	0
EST2 J2_A13	COIL 2	30
EST3 J2_A4	COIL 3	120
EST4 J2_A20	COIL 4	150
EST5 J2_A10	COIL 5	240
EST6 J2_A11	COIL 6	270
EST7 J2_A21	COIL 7	360
EST8 J2_A23	COIL 8	390
EST9 J2_B14	COIL 9	480
EST10 J2_B13	COIL 10	510
EST11 J2_B11	COIL 11	600
EST12 J2_B10	COIL 12	630

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DIAGRAM- CONTROL WIRING
E3 Lean Burn Trim System

SIZE A3	CAGE CODE	DWG NO 9971-1266	REV B
SCALE		SHEET 5 OF 5	