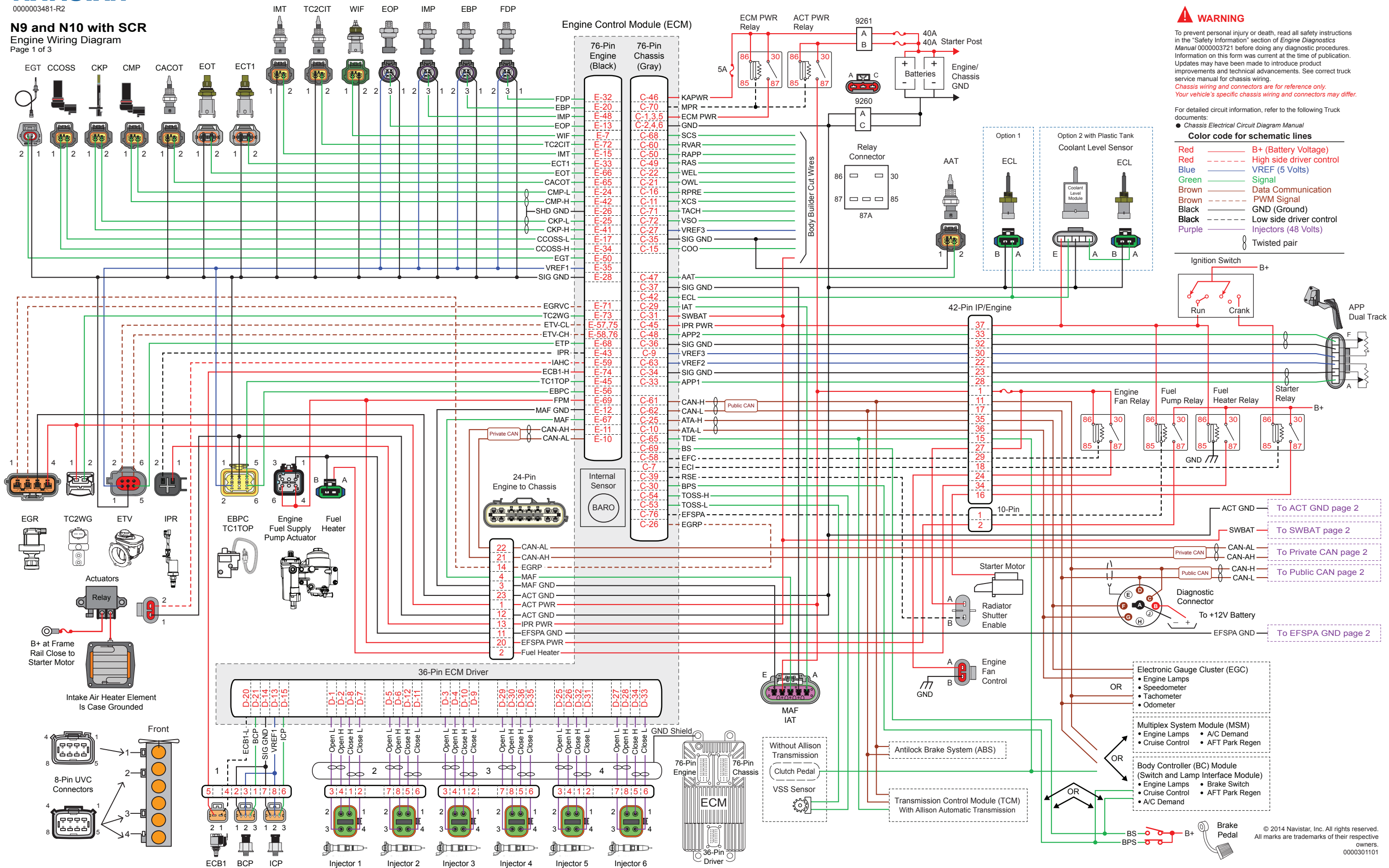


Engine Wiring Diagram

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! WARNING

To prevent personal injury or death, read all safety instructions in the "Safety Information" section of *Engine Diagnostics Manual* 0000003721 before doing any diagnostic procedures. Information on this form was current at the time of publication. Updates may have been made to introduce product improvements and technical advancements. See correct truck service manual for chassis wiring.

Chassis wiring and connectors are for reference only.
Your vehicle's specific chassis wiring and connectors may differ.

For detailed circuit information, refer to the following Truck documents:

● Chassis Electrical Circuit Diagram Manual

Color code for schematic lines

Red	————	B+ (Battery Voltage)
Red	-----	High side driver control
Blue	————	VREF (5 Volts)
Green	————	Signal
Brown	————	Data Communication
Brown	-----	PWM Signal
Black	————	GND (Ground)
Black	-----	Low side driver control
Purple	————	Injectors (48 Volts)

8 Twisted pair

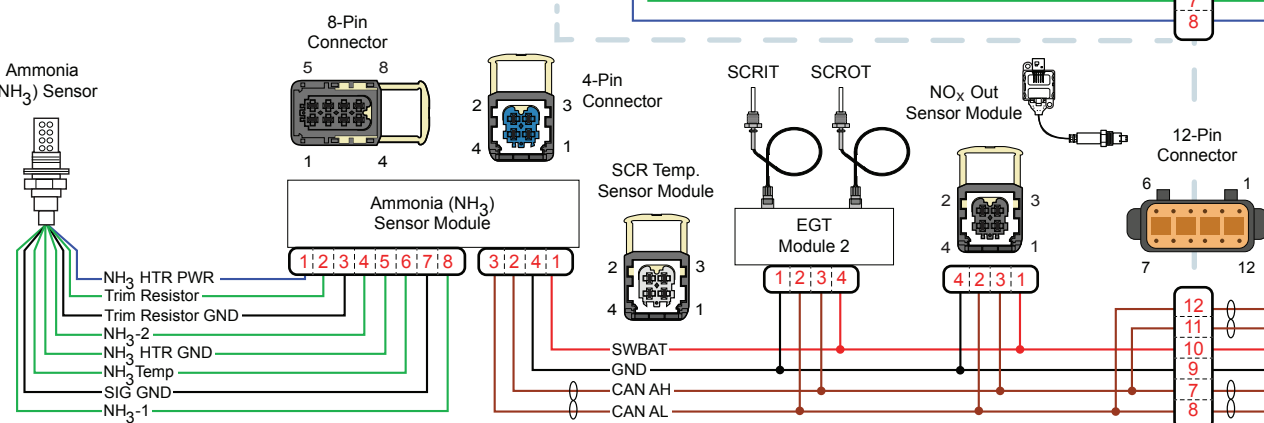
N9 and N10 with SCR
Aftertreatment Wiring Harness

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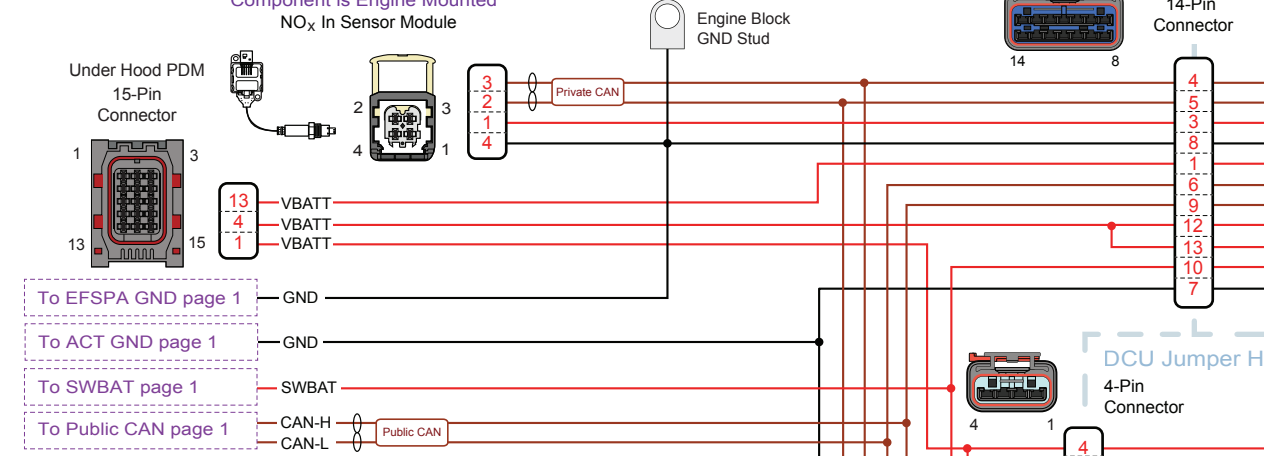
Color code for schematic lines

Red	B+ (Battery Voltage)
Red	High side driver control
Blue	VREF (5 Volts)
Green	Signal
Brown	Data Communication
Brown	PWM Signal
Black	GND (Ground)
Black	Low side driver control
	Twisted pair

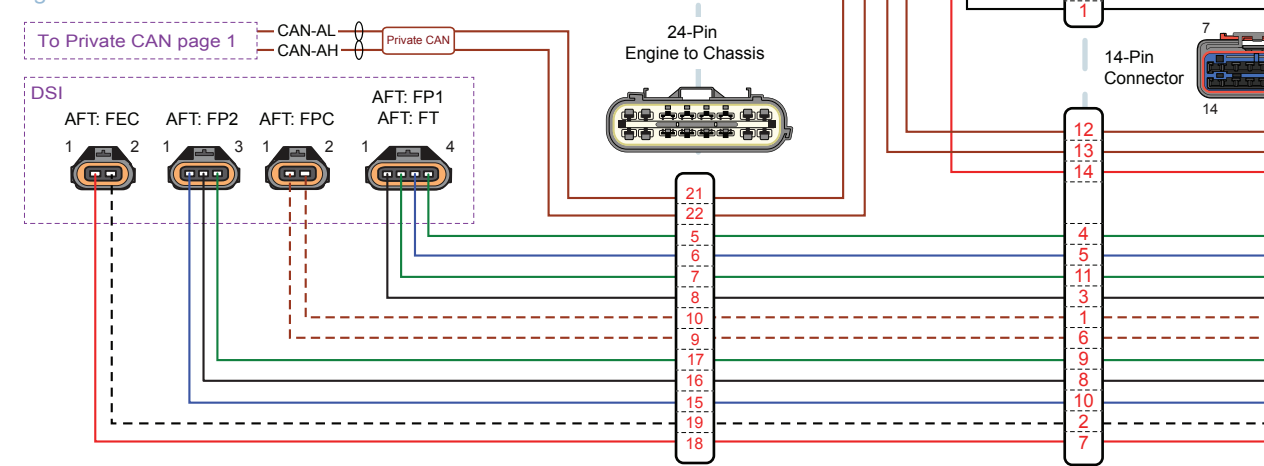
Selective Catalyst Reduction (SCR) Harness



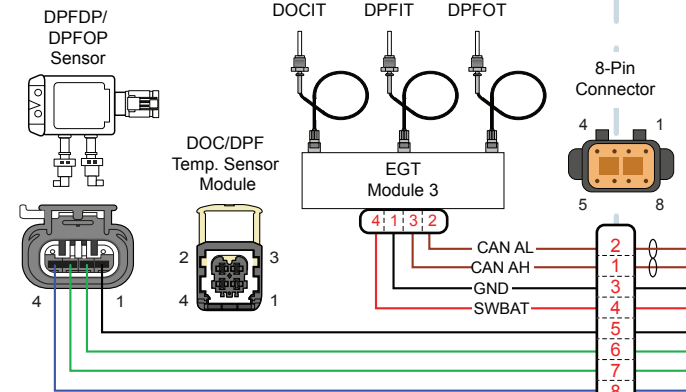
Chassis Harness



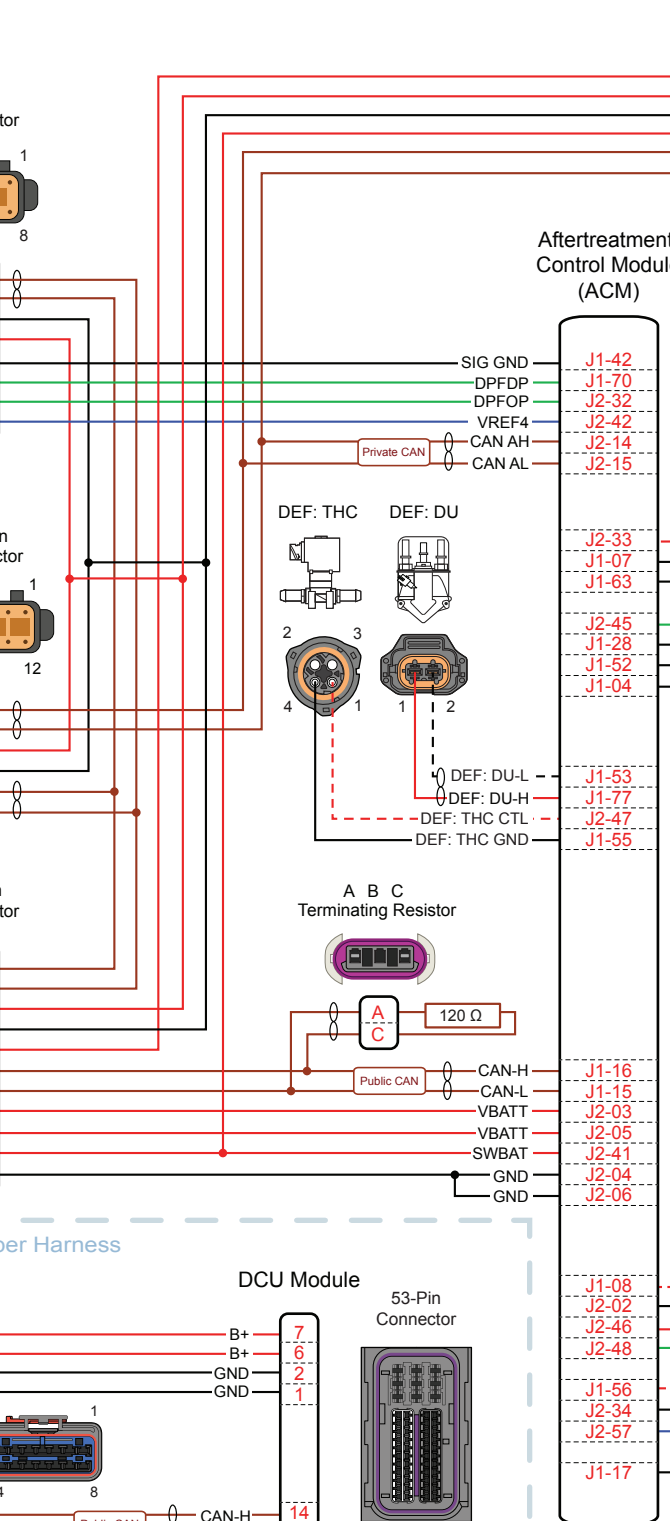
Engine Harness



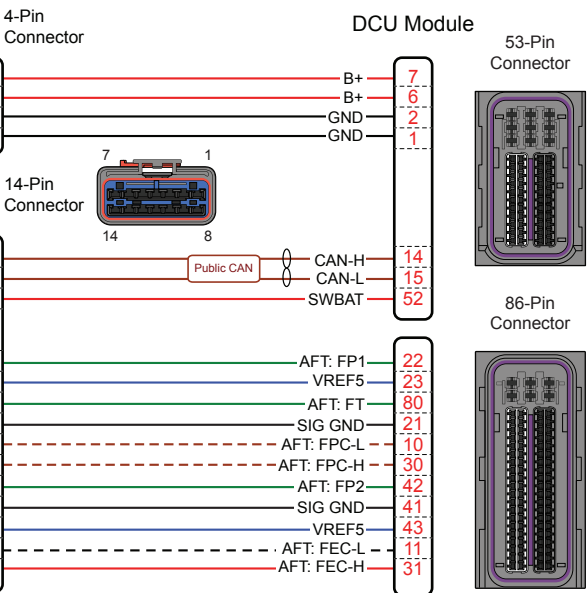
Diesel Oxidation Catalyst (DOC) and Diesel Particulate Filter (DPF) Harness



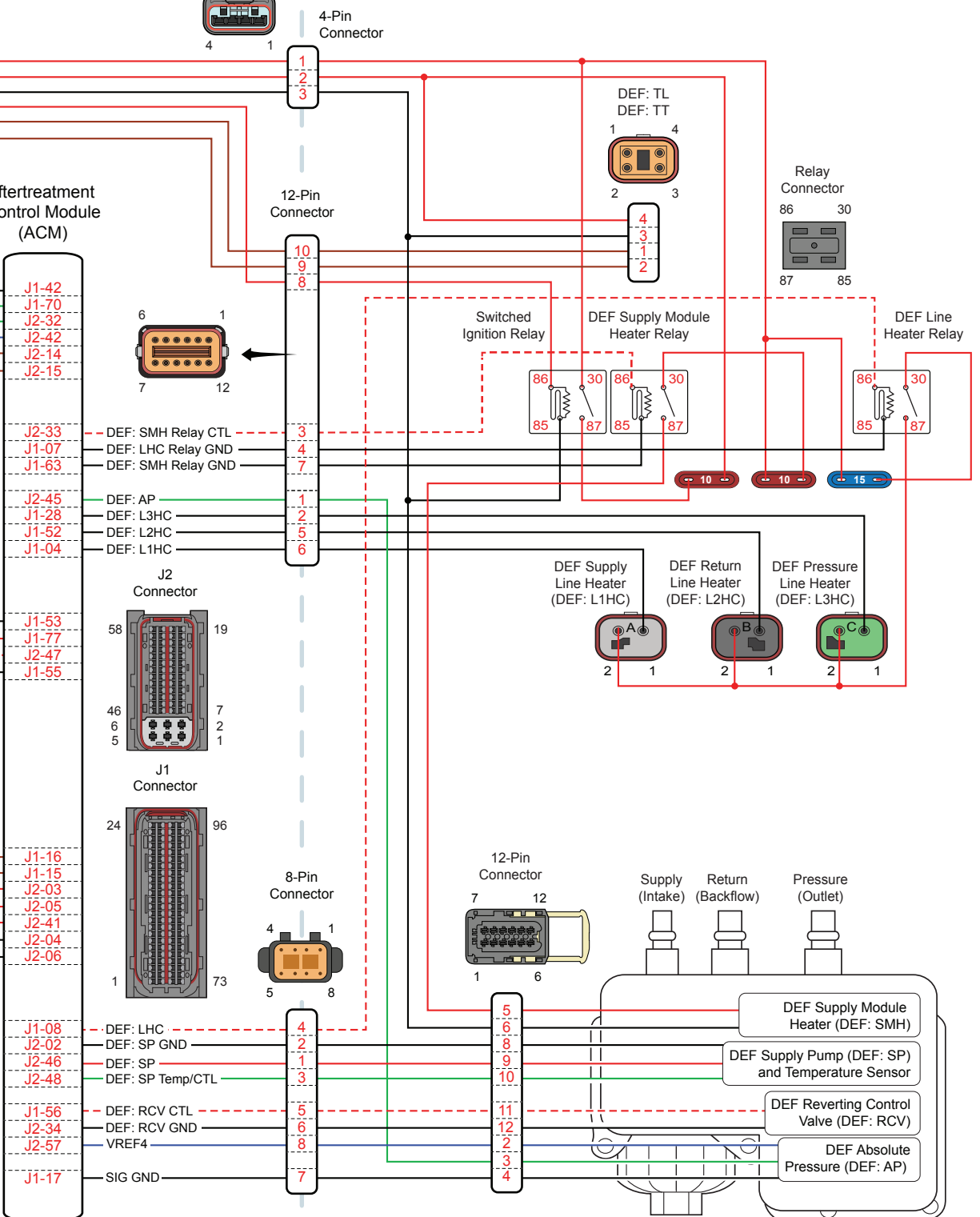
Aftertreatment Harness



DCU Jumper Harness



DEF Tank Harness



WARNING

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Chassis wiring and connectors are for reference only. Your vehicle's specific chassis wiring and connectors may differ.

For detailed circuit information, refer to the following Truck documents:

- Chassis Electrical Circuit Diagram Manual

N9 and N10 with SCR Aftertreatment Diagram Page 3 of 3

APP1	Accelerator Pedal Position 1	SCROT	SCR Outlet Temperature
APP2	Accelerator Pedal Position 2	SWBAT	Keyswitch Battery
ACT GND	Actuator Ground	TACH	Tachometer
ACT PWR	Actuator Power	TC1TOP	Turbocharger 1 Turbine Outlet Pressure
AAT	Ambient Air Temperature	TC2CIT	Turbocharger 2 Compressor Intake Temperature
ACM	Aftertreatment Control Module	TC2WG	Turbocharger 2 Wastegate Position
AFT: FEC	AFT Fuel Enable Control	TDE	Transmission Driveline Engaged
AFT: FPC	AFT Fuel Pressure Control	WIF	Water In Fuel
AFT: FP1	AFT Fuel Pressure 1	XCS	Transfer Case
AFT: FP2	AFT Fuel Pressure 2		
AFT: FT	AFT Fuel Temperature		
ATA	ATA Communication Link		
B+	Battery Voltage		
BARO	Barometric Pressure		
BCP	Brake Ctrl Pressure		
BS	Brake Switch		
BPS	Brake Pressure Switch		
CAC	Charge Air Cooler		
CACOT	CAC Outlet Temperature		
CCOSS	Crankcase Oil Separator Speed		
CKP	Crankshaft Position		
CMP	Camshaft Position		
DCU	Doser Control Unit		
DEF	Diesel Exhaust Fluid		
DEF: AP	DEF Absolute Pressure		
DEF: DU	Diesel Exhaust Fluid Dosing Unit		
DEF: L1HC	DEF Line 1 Heater Control (Supply)		
DEF: L2HC	DEF Line 2 Heater Control (Return)		
DEF: L3HC	DEF Line 3 Heater Control (Pressure)		
DEF: RCV	DEF Reverting Control Valve		
DEF: SMH	DEF Supply Module Heater		
DEF: SP	DEF Supply Pump		
DEF: THC	DEF Tank Heater Control		
DEF: TL	DEF Tank Level		
DEF: TT	DEF Tank Temperature		
DOC	Diesel Oxidation Catalyst		
DOCIT	DOC Intake Temperature		
DPF	Diesel Particulate Filter		
DPFDP	DPF Differential Pressure		
DPFIT	DPF Intake Temperature		
DPFOP	DPF Outlet Pressure		
DPFOT	DPF Outlet Temperature		
DSI	Down Stream Injection		
EBP	Exhaust Back Pressure		
EBPC	Exhaust Back Pressure Control		
ECB1	Engine (Compression) Brake Output #1		
ECI	Engine Crank Inhibit		
ECL	Engine Coolant Level		
ECM	Engine Control Module		
ECT1	Engine Coolant Temperature 1		
EFC	Engine Fan Control		
EFSPA	Engine Fuel Supply Pump Actuator		
EGR	Exhaust Gas Recirculation		
EGRVC	EGR Valve Control		
EGRP	EGR Valve Position		
EGT	Exhaust Gas Temperature		
EOP	Engine Oil Pressure		
EOT	Engine Oil Temperature		
ETC	Engine Throttle Control		
ETP	Engine Throttle Valve Position		
FDP	Fuel Delivery Pressure		
FPM	Fuel Pump Monitor		
GND	Ground		
IAHC	Intake Air Heater Control		
IAT	Intake Air Temperature		
ICP	Injection Control Pressure		
IMP	Intake Manifold Pressure		
IMT	Intake Manifold Temperature		
INJ#1-6	Injector 1-6		
IPR	Engine Injection Control Pressure Regulator		
KAPWR	Keep Alive Power		
MAF	Mass Air Flow		
MPR	Main Power Relay		
NH3	Aftertreatment Ammonia		
NOxIn	NOx Intake Concentration		
NOxOut	NOx Outlet Concentration		
PDM	Power Distribution Module		
RAPP	Remote Accelerator Pedal Position		
RAS	Resume Accel Switch		
RPRE	Remote Preset PTO		
RSE	Radiator Shutter Enable		
SCR	Selective Catalytic Reduction		
SCRIT	SCR Intake Temperature		

