

Engine Wiring Schematic Form

MAXXFORCE® DT, 9, and 10 (EPA 10) with HD-OBD

NAVISTAR
0000003221

MAXXFORCE



To prevent personal injury or death, read all safety instructions in the "Safety Information" section of *Engine Diagnostics Manual* EGES-455 before doing any diagnostic procedures.

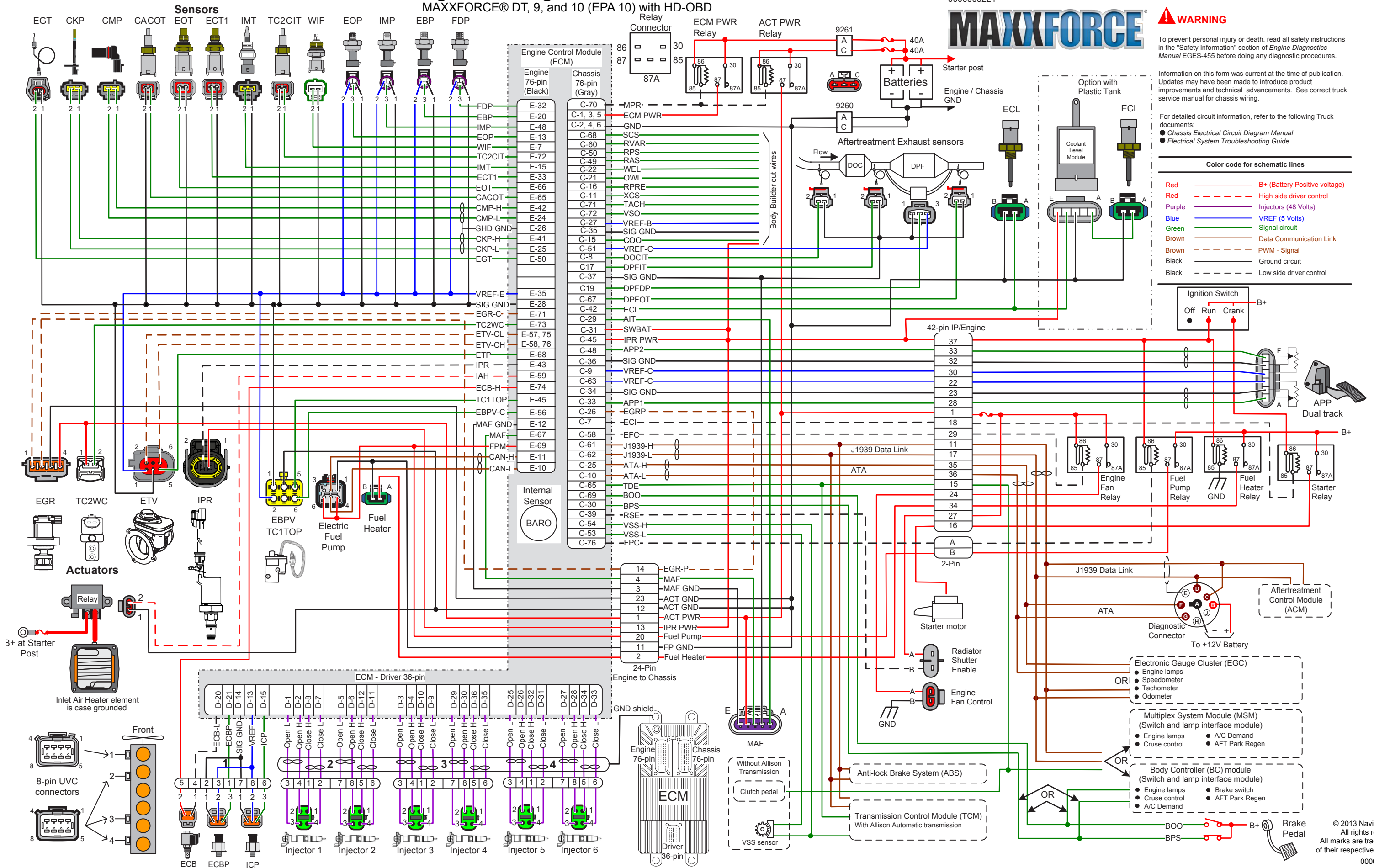
Information on this form was current at the time of publication. Updates may have been made to introduce product improvements and technical advancements. See correct truck service manual for chassis wiring.

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

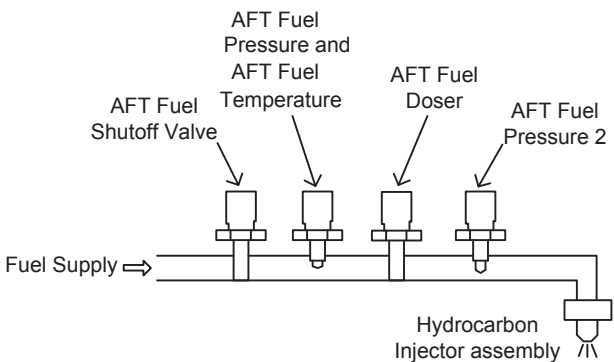
- Chassis Electrical Circuit Diagram Manual
- Electrical System Troubleshooting Guide

Color code for schematic lines

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



Aftertreatment Down Stream Injection (DSI)



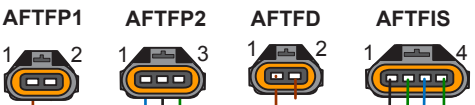
AFT Fuel Pressure 2 (AFTFP2)

AFT Fuel Doser (AFTFD)

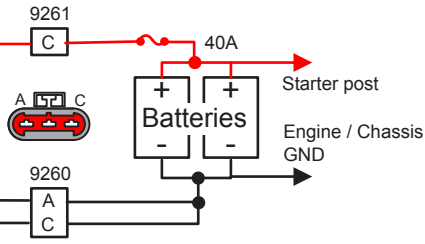
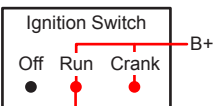


AFT Fuel Pressure 1 (AFTFP1)

AFT Fuel Inlet Sensor (AFTFIS)
(consisting of
AFT Fuel Pressure 1 (AFTFP1)
and
AFT Fuel Temperature (AFTFT))



24-Pin
Engine/IP
connector



ACM 53-Pin Connector

J1939-H	14
J1939-L	15
SWBAT	52
B+	6
B+	7
B+	8
B+	9
GND	1
GND	2
GND	3
GND	4
GND	5

ACM 86-Pin Connector

AFTFP1	22
VREF	23
AFTFT	80
SIG GND	21
AFTFD-L	10
AFTFD-H	30
AFTFP2	42
SIG GND	41
VREF	43
AFTFS-H	11
AFTFS-L	31

ACM	Aftertreatment Control Module
ACT	Actuator
AFTFD	Aftertreatment Fuel Doser
AFTFD-H	AFTFD High
AFTFD-L	AFTFD Low
AFTFIS	Aftertreatment Fuel Inlet Sensor
AFTFIT	Aftertreatment Fuel Inlet Temperature
AFTFP1	Aftertreatment Fuel Pressure 1
AFTFP2	Aftertreatment Fuel Pressure 2
AFTFS	Aftertreatment Fuel Shutoff
AFTFS-H	AFTFS High
AFTFS-L	AFTFS Low
AFTFT	Aftertreatment Fuel Temperature
AIT	Air Inlet Temperature
APP	Accelerator Pedal Position
APP1	Accelerator Pedal Position 1
APP2	Accelerator Pedal Position 2
ATA	American Trucking Association Data Communication Link
ATA-H	ATA High
ATA-L	ATA Low
BARO	Barometric Pressure
BFS	Breather Fan Speed
BOO	Brake On / Off
BPS	Brake Pressure Switch

CACOT	Charge Air Cooler Outlet Temperature
CAN	Controller Area Network
CAN-H	CAN High
CAN-L	CAN Low
CKP	Crankshaft Position
CKP-H	CKP High
CKP-L	CKP Low
CMP	Camshaft Position
CMP-H	CMP High
CMP-L	CMP Low
COO	Cruise On / Off
DOC	Diesel Oxidation Catalyst
DOCIT	DOC Inlet Temperature
DPF	Diesel Particulate Filter
DPFD	DPF Differential Pressure
DPFIT	DPF Inlet Temperature
DPFOT	DPF Outlet Temperature
EBP	Exhaust Back Pressure
EBPV	EBP Valve
EBPV-C	EBPV Control
ECB	Engine Compression Brake
ECB-H	ECB High
ECB-L	ECB Low
ECBP	Engine Compression Brake Pressure
ECI	Engine Crank Inhibit

ECL	Engine Coolant Level
ECM	Engine Control Module
ECT1	Engine Coolant Temperature 1
EFC	Engine Fan Control
EFP	Electric Fuel Pump
EGR	Exhaust Gas Recirculation
EGR-C	EGR Control
EGR-P	EGR Position
EGT	Exhaust Gas Temperature
EOP	Engine Oil Pressure
EOT	Engine Oil Temperature
ETP	Engine Throttle Position
ETV	Engine Throttle Valve
ETV-CH	ETV Control High
ETV-CL	ETV Control Low
FDP	Fuel Delivery Pressure
FP	Fuel Pump
FPC	FP Control
FPM	FP Monitor
GND	Ground
IAH	Inlet Air Heater
ICP	Injection Control Pressure
IMP	Intake Manifold Pressure
IMT	Intake Manifold Temperature
IPR	Injection Pressure Regulator

J1939-H	J1939 Data Link High
J1939-L	J1939 Data Link Low
MAF	Mass Air Flow
MPR	Main Power Relay
OWL	Oil Warn Lamp
PTO	Power Takeoff
PWR	Power
RAPP	Remote Accelerator Pedal Position
RAS	Resume Accelerator Switch
RSE	Radiator Shutter Enable
RVAR	Remote Variable PTO
SCS	Set Coast Switch
SHD	Shield
SIG	Signal
SIG GND-B	SIG GND Body
SIG GND-C	SIG GND Chassis
SIG GND-E	SIG GND Engine
SWBAT	Switched Battery
TACH	Tachometer
TC1TOP	Turbocharger 1 Turbine Outlet Pressure
TC2CIT	Turbocharger 2 Compressor Inlet Temperature
TC2WC	Turbocharger 2 Wastegate Control
TCM	Transmission Control Module
TDE	Transmission Driveline Engaged