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汽修工程师
VCXCAR.COM

REVISIONS				
REV	DESCRIPTION	DRAFTER	CHECKER	APPROVAL
B	PRODUCTION			

OEM Responsibility

CM2220A

BATTERY_+
BATTERY_-
AS APPROPRIATE
For the 9 pin datalink tool port, FOTON uses a 16 pin one.
J5
J4CAP J4
J3CAP J3
J1939_+
J1939_-
BATTERY_+
IGN
START
BATT ACC
KYSW
5 AMP ATO
30 AMP ATO
BATTERY_+ 12 AWG RD
V_BATT_(+)_OPTIONAL 14 AWG RD
V_BATT_(+)_REQUIRED 14 AWG RD
V_BATT_(+)_REQUIRED 14 AWG RD
V_BATT_(-)_OPTIONAL 14 AWG BK
V_BATT_(-)_REQUIRED 14 AWG BK
V_BATT_(-)_REQUIRED 14 AWG BK
J1939_(+)
J1939(-)
KEYSW
STOP_LAMP
WARNING_LAMP
WAIT_TO_START_LAMP
MIL_LAMP
TACHOGRAPH
TACHOMETER
PTO/CRUISE_SET/DECREMENT
PTO/CRUISE_RESUME/INCREMENT
PTO/CRUISE_ON/OFF
ACCELERATOR_INTERLOCK
DIAGNOSTIC
GOVERNOR_TYPE/MAXIMUM_OPERATING_SPEED
EXHAUST_BRAKE
SERVICE_BRAKE
CLUTCH/ENGINE_PROTECTION_SHUTDOWN_OVERRIDE_SW
A/C_PRESSURE/MANUAL_FAN
SW_RET_XXX
SW_RET_XXX
J6
VSENSOR_1-OEM_SENSORS
VSENSOR_1-SENSOR_RETURNS
VSENSOR_1-OEM_SENSORS
PEDAL_POSITION_2_(BOOT)
VSENSOR_1-SENSOR_RETURNS
VSENSOR_2_OEM_THROTTLE
PEDAL_POSITION_1_(BOOT)
VSENSOR_2-THROTTLE_RETURN
SWITCH_RETURN
SWITCH_RETURN
REMOTE_PTO
REMOTE_THROTTLE
J7
VSENSOR_1-OEM_SENSORS
VSENSOR_1-SENSOR_RETURNS
COOLANT_LEVEL
J8
VSENSOR_1-OEM_SENSORS
VSENSOR_1-SENSOR_RETURNS
REMOTE_THROTTLE
J9
SENSOR_SUPPLY
SENSOR_RETURN
VEHICLE_SPEED
J10
HS_OEM_RETURN_2
EXHAUST_BRAKE
J15
FAN_CLUTCH/HI_FAN
J16
LO_FAN
HS_OEM_RETURN_2
J11
HS_OEM_RETURN_1
STARTER_LOCK_OUT
HS_OEM_RETURN_1
J12
GRID_HEATER
HS_OEM_RETURN_1
GRID_HEATER
J13
VSENSOR_1-OEM_SENSORS
VSENSOR_1-SENSOR_RETURNS
PFC_DELTA_P
A/C_REQUEST
A/C_COMPRESS_CONTROL
J14
EBP_SWITCH
ADD_RETURN

AC ECU
MICRO
AC ON
BATTERY(+)
BATTERY(+)

J2 J1
ENGINE_OEM

C1
001 IMV_RETURN BK 0.75 mm2
002 IMV PE 0.75 mm2
C2
003 AD_RET_(ENG) BK 0.75 mm2
004 COOLANT_TEMP BE 0.75 mm2
C3
007 OIL_PRESSURE_SWITCH BE 0.75 mm2
C5
008 1939_(+)_(PRIVATE) GN 0.75 mm2
009 1939_(-)_(PRIVATE) GN 0.75 mm2
C6C6CAP
010 VSENSOR_4-SENSOR_RETURNS_#1 BK 0.75 mm2
011 FUEL_PRESSURE BE 20 mm2
012 VSENSOR_4-ENGINE_SENSORS_#1 RD 0.75 mm2
C7
180 VSENSOR_4-ENGINE_SENSORS_#1 RD 0.75 mm2
176 VSENSOR_4-SENSOR_RETURNS_#1 BK 0.75 mm2
015 AMBIENT_AIR_PRESSURE_(AAP) BE 0.75 mm2
C8
016 INTAKE_MANIFOLD_PRESSURE_(TMAP) BE 0.75 mm2
017 VSENSOR_4-ENGINE_SENSORS_#1 RD 0.75 mm2
018 INTAKE_MANIFOLD_TEMPERATURE_(TMAP) BE 0.75 mm2
019 VSENSOR_4-SENSOR_RETURNS_#1 BK 0.75 mm2
C9
020 VSENSOR_4-ENGINE_SENSORS_#1 RD 0.75 mm2
021 VSENSOR_4-SENSOR_RETURNS_#1 BK 0.75 mm2
022 ENGINE_SPEED_BACKUP_SENSOR_(CAM) BE 0.75 mm2
C10
023 VSENSOR_3-ENGINE_ESS RD 0.75 mm2
024 VSENSOR_3_ESS_RETURN BK 0.75 mm2
025 ENGINE_SPEED_MAIN_SENSOR_(CRANK) BE 0.75 mm2
C11
184 INJECTOR_1_(+) PE 16 AWG
187 INJECTOR_1_(-) BK 16 AWG
185 INJECTOR_2_(+) PE 16 AWG
186 INJECTOR_2_(-) BK 16 AWG
C20
188 INJECTOR_3_(+) PE 16 AWG
189 INJECTOR_3_(-) BK 16 AWG
190 INJECTOR_4_(+) PE 16 AWG
191 INJECTOR_4_(-) BK 16 AWG
C21
042 VSENSOR_4-ENGINE_SENSORS_#1 RD 0.75 mm2
043 EGR_POSITION BE 0.75 mm2
044 VSENSOR_4-SENSOR_RETURNS_#1 BK 0.75 mm2
045 EGR_CONTROL_VALVE_- PE 0.75 mm2
046 EGR_CONTROL_VALVE_+ PE 0.75 mm2
C18
193 WATER_IN_FUEL BE 0.75 mm2
194 WIF_RETURN BK 0.75 mm2
C50C50CAP
166 EGR_ORIFICE_TEMP BE 0.75 mm2
168 AD_RETURN(ENG) BK 0.75 mm2
C53
172 VSENSOR_4-ENGINE_SENSORS_#1 RD 0.75 mm2
173 VSENSOR_4-SENSOR_RETURNS_#1 BK 20 mm2
169 EGR_DELTA_P BE 0.75 mm2
C54
174 VSENSOR_4-ENGINE_SENSORS_#1 RD 0.75 mm2
175 VSENSOR_4-SENSOR_RETURNS_#1 BK 20 mm2
171 EGR_ORIFICE_PRESSURE BE 0.75 mm2
C55

Note

This wiring diagram is only used for
ISF3.8 Heavy Duty NS IV/Euro IV engines
with CM2220 engine control
module and EGR + PFC system

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ITEM NAME
DIAGRAM, HARNESS

IDENTIFIER
ISF3.8 NS/EU IV EGR+PFC

SIZE	CODE IDENT NO.	ITEM NUMBER	
E			
SCALE NONE	ITEM CKT SEC	SHEET 3 OF	

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Cummins CM2220A Wiring Diagram for ISF 3.8 N4EU IV EGR-PFC Engine

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