



FORD MOTOR COMPANY

EXECUTIVE ORDER A-010-2310-1
New Diesel or Incomplete Medium-Duty Vehicles
Using Certified Engines

Pursuant to the authority vested in California Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: The following diesel or incomplete medium-duty vehicles (MDV) with a manufacturer's GVWR from 10,001 to 14,000 pounds are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

ENGINE DESCRIPTION								
MODEL YEAR	ENGINE FAMILY	ENGINE MANUFACTURER	EXECUTIVE ORDER	EMISSION STD CATEGORY ²	FUEL TYPE ¹	STANDARDS & TEST PROCEDURE	ENGINE SIZES (L)	OBD COMPLIANCE
2021	MFMXE07.3BV2	FORD MOTOR COMPANY	A-010-2309-1	ULEV	Flexible Fuel: Ethanol (E85) / Gasoline	Otto	7.3	OBD(F)
ECS & SPECIAL FEATURES ³								
TWC, SFI, HO2S, WR-HO2S								
Gasoline, LPG or Alcohol Vehicles Only		VEHICLE DESCRIPTION						
EVAPORATIVE FAMILY	UL (K)	FUEL TANK CAPACITY (gallons)	VEHICLE MODEL YEAR	VEHICLE MAKE & MODELS		ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)	OBD COMPLIANCE
See attachment for evaporative families, engine models and engine ratings								
* =not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; L=liter; hp=horsepower; kw=kilowatt;								
¹ CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a BF=bi fuel; DF=dual fuel; FF=flexible fuel;								
² SULEV / ULEV / LEV=super ultra / ultra / low emission vehicle;								
³ ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction - urea / - ammonia; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); WR-HO2S=wide range oxygen sensor; TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/ super charger; CAC=charge air cooler; EGR / EGR-C=exhaust gas recirculation / cooled EGR; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; AMOX=Ammonia Oxidation Catalyst; NOXS=NOx sensor; 2 (prefix)=parallel; (2) (suffix)=in series;								

Following are: 1) the FTP exhaust emission standards or family emission limit(s) as applicable under 13 CCR 1956.8; 2) the SET and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, for this engine family. "Diesel" CO, SET and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For dual- and flexible-fuel, the CERT values in brackets [] are those when tested on conventional test fuel.)⁴

	NMHC		NOx		NMHC+NOx		CO		PM		HCHO	
	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14 [0.14]	*	0.20 [0.20]	*	*	*	14.4 [14.4]	*	0.01 [0.01]	*	0.01 [0.01]	*
CERT	0.13 [0.10]	*	0.08 [0.07]	*	*	*	3.0 [6.3]	*	0.004 [0.01]	*	0.002 [0.001]	*
NTE	*		*		*		*		*		*	

⁴ g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=supplemental emissions testing; NTE=Not-to-Exceed emission limit; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (rev: 2014-01-03)

BE IT FURTHER RESOLVED: The listed engine models have been certified to the optional emission standards and test procedures in 13 CCR 1956.8 applicable to diesel or incomplete MDV with a 10,001-14,000 pounds GVWR and shall be subject to 13 CCR 2139(c) (in-use testing of engines certified for use in diesel or incomplete MDV with a 10,001-14,000 pounds GVWR).

BE IT FURTHER RESOLVED: For the listed vehicle models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1968.2 (on-board diagnostic, full or partial compliance), 13 CCR 1976(b)(1)(F) {evaporative emission standards}, 13 CCR 1978 (vehicle refueling emissions standards; complete vehicles), 13 CCR 2035 et seq. (emission control warranty), and 13 CCR 2235 [fill pipes and openings of motor vehicle fuel tanks].

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order hereby supersedes Executive Order A-010-2310 dated December 22, 2020.

Executed on this 29th day of December 2021.

Allen Lyons, Chief
Emissions Certification and Compliance Division

Attachment: Vehicle Models and Evaporative System

EO #: A-010-2310-1

Attachment Last Revised: 12/23/2021

Evap Family Name	Fuel Tank Capacity (gallons)	Vehicle Year	Vehicle Make	Vehicle Model	Engine Model	Engine Code (rated power, in hp)	ECSV	Notes
MFMXF0210GCJ	40.0	2021	FORD	E-Series	E-Series	MTE4K0NF (300)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
MFMXF0210GCJ	40.0	2021	FORD	E-Series	E-Series	MTE4J0NF (325)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
MFMXF0210GCJ	40.0	2021	FORD	E-Series	E-Series	MTE4K0NG (300)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
MFMXF0210GCJ	40.0	2021	FORD	E-Series	E-Series	MTE4J0NG (325)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
MFMXF0360NGJ	55.0	2021	FORD	E-Series	E-Series	MTE4K0NH (300)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle
MFMXF0360NGJ	55.0	2021	FORD	E-Series	E-Series	MTE4J0NH (325)	Fuel Cap, Vent Valve, Fuel tank, pressure sensor, Carbon canister, canister purge valve, AIS trap	150K UL, Incomplete Vehicle