

Executive Order: A-010-2262-1
New Passenger Cars, Light-Duty Trucks and
Medium-Duty Vehicles
Page 1 of 4

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

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

| | TEST GROUP INFORMATION | | | | | | | | | | | | |
|---|--|---------------------------------------|-------|------------|--------------------------|---------------------|--|--|--|-----------------------|--------------------------------------|--|--|
| MOD YEA | | EST GROUP | | VEHIC | LE CLASS(E | S) | | FUEL C | ATEGORY | | FUEL TYPE | | |
| 202 | 1 MF | MXT02.33ME | | LDT3, LDT4 | | | | DEDICATED SINGLE FUEL VEHICLE | | | GASOLINE | | |
| | USEFUL | . LIFE (miles) | | VEH | IICLE EMISS | ION (| ATE | GORY | INTERIM / IN | TERM | EDIATE IN-USE STD | | |
| EX | H/ORVR | EVAP | | | FTP | | SF | TP | FTP | | SFTP | | |
| 1 | 50000 | 15000 |) | LEV3 | ULEV70 | LEV | 3 C | OMPOSITE | PM | | PM | | |
| SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS | | | | | L | | OBD S | TATUS | EN | GINE DISPLACEMENT (L) | | | |
| 1 | TWC | DFI,WR-HO2 | 3,HO2 | S,CAC,TC | ,EGR,EGRC | | | FULL | ALL MODELS | | | | |
| * | * * | | | | | | P | ARTIAL | * | 2.3 | | | |
| * | * | | | | | | 1 | TIAL WITH FINES | * | | | | |
| | | E | VAPC | RATIVE & | REFUELING | (EVA | P/OR | VR) FAMILY | / INFORMATION | 1 | | | |
| EV | AP / ORV | RFAMILY | EVA | PORATIVE | STD CATE | GORY | , | EVAP EMISSION STD VEHICLE CLASS SPECIAL FEATURES | | | ECIAL FEATURES | | |
| | MFMXR01 | 35NDG | L | EV 3 OPT | ON2 WITH | N2 WITH FEL LDT3 HC | | | HCT | | | | |
| | | | | I | EMISSION CI | REDIT | r INFO | ORMATION | | | | | |
| | REDIT FO | X FLEET AVE. OR EXTENDED RRANTY | | | REDIT FOR N ZERO-EVAP | ON-P | ZEV | NMOG C | REDIT FOR DO | | OPTIONAL EXH. STD FOR WORK TRUCKS | | |
| | | N | | | N | | | | N | | N | | |
| | | | | NMOG | AND FLEET | AVE | RAGI | INFORMA | TION | | | | |
| NMOG RAF | NMOG CH4 RAF NMOG/NMHC RATIO HCHO/NMHC RATIO NMOG+NOX FL PC+LDT (0-37-10) (g/mi) | | | 0-375 | | V) LDT | +NOX FLEET S7 (3751 LVW-8500 R) + MDPV (g/mi | | NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi) | | | | |
| * | * | 1.10 | | * | 0 | .058 | | | 0.065 | | * | | |

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



Executive Order: A-010-2262-1
New Passenger Cars, Light-Duty Trucks and
Medium-Duty Vehicles
Page 2 of 4

BE IT FURTHER RESOLVED:

The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c) (3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV shall be equalized as required.

BE IT FURTHER RESOLVED:

For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

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

This Executive Order hereby cancels and supersedes Executive Order A-010-2262 dated July 28, 2020.

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

Executed on this 30th day of September 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Executive Order: A-010-2262-1
New Passenger Cars, Light-Duty Trucks and
Medium-Duty Vehicles
Page 3 of 4

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

| EXHAUS1 | FEMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F) |
|---------|---|
| | CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP |

| | | NMOG+NOx CO (g/mi) (g/mi) | | NOx (g/mi) | | HCHO (mg/mi) | | PM (g/mi) | | | |
|----------|------------------------|---------------------------|-------|---------------|-----|-----------------|-----|--------------|-----|-------|-------|
| | | CERT | STD | CERT | STD | CERT | STD | CERT | STD | CERT | STD |
| FTP@50K | * | * | * | * | * | * | * | * | * | * | * |
| FTP@UL | GASOLINE- TIER3 E10 | 0.055 | 0.070 | 0.8 | 1.7 | * | * | 0.7 | 4 | 0.002 | 0.003 |
| 50°F @4K | GASOLINE- TIER3 E10 | 0.070 | 0.140 | 0.9 | 1.7 | * | * | 0.9 | 16 | | |

| | FUEL TYPE | NMOG+N | Ox (g/mi) | CO (g/mi) | | |
|-------------|--------------------------------------|--------|-----------|-----------|------|--|
| | FUEL TIPE | CERT | STD | CERT | STD | |
| HWFET @ 50K | * | * | * | | | |
| HWFET @ UL | GASOLINE-TIER3 E10 | 0.033 | 0.070 | | | |
| 20°F @ 50K | COLD CO E10 REGULAR GASOLINE (TIER3) | | | 1.3 | 12.5 | |

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

| | | | | US06 | | SC0 | 3 | COMPOSITE | | |
|----------------|------------------------|------|--------------------|--------------|---------------|--------------------|--------------|--------------------|--------------|---------------|
| | FUEL TYPE | | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi) | NMOG+NOx (g/mi) | CO (g/mi) | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi) |
| | | | (3/ | (3) | (3) | (3) | (3::::) | (3) | (3) | (***3****, |
| @ 4K | * | CERT | * | * | | * | * | | | |
| | | STD | * | * | | * | * | | | |
| | | CERT | * | * | 2 | * | * | 0.078 | 0.8 | * |
| I (M I III I I | GASOLINE- TIER3 E10 | STD | * | * | 6 | * | * | 0.077 | 4.2 | * |
| | | BIN | | | | | | 0.090 | | |

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

| | FUEL TYPE | | WHOLE \ | | | | | | |
|--------------------|------------------------|-------|--------------|-------|-------|---------------|----------------|------|------|
| EVAPORATIVE FAMILY | | 3DH | S (g/test) (| @ UL | 2DI | HS (g/test) (| RL (g/mi) @ UL | | |
| | | CERT | STD | FEL | CERT | STD | FEL | CERT | STD |
| MFMXR0135NDG | GASOLINE- TIER3 E10 | 0.165 | 0.500 | 0.500 | 0.135 | 0.500 | 0.500 | 0.00 | 0.05 |

ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

| | | | | | FUEL ONLY EVAP & CANISTER BLEED | | | | | | | | |
|-----|---------------------|------------------------|------|-----------|---------------------------------|------|--------------------------------|------|--------------------------------------|-------|-------|--|--|
| | APORATIVE FAMILY | ORVR (g/gallon) @ UL | | FUEL TYPE | 3DHS RIG TEST (g/test) @ UL | | 2DHS RIG TEST (g/test) @ UL | | BLEED CANISTER TEST (g/test) @ 4K | | | | |
| | | FUEL TYPE | CERT | STD | | CERT | STD | CERT | STD | CERT | STD | | |
| MFM | XR0135NDG | GASOLINE- TIER3 E10 | 0.17 | 0.20 | GASOLINE- TIER3 E10 | * | * | * | * | 0.011 | 0.020 | | |



Executive Order: A-010-2262-1
New Passenger Cars, Light-Duty Trucks and
Medium-Duty Vehicles
Page 4 of 4

| EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES) | | | | | | | | |
|---|------------------|------|------|--|--|--|--|--|
| EVAPORATIVE FAMILY | LEAK FAMILY | CERT | STD | | | | | |
| MFMXR0135NDG | MFMXR0135NDG-001 | * | 0.02 | | | | | |

*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: _DT<6000#GVWR,3751-5750#LVW; LDT3; LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4; LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; HP/LP EGR: High/Low Pressure EGR; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; FFH: fuel fired heater; F/P/\$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%' ethanol ("15%"gasoline) fuel; E10: "10%" ethanol ("90%"gasoline) fuel; A: automatic (with lockup); M: manual transmission: SA: semi automatic transmission: CV: continuously variable transmission: SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models

2021 MODEL YEAR: VEHICLE MODELS INFORMATION

| MAKE | MODEL | VEH CLASS | CLASS ENGINE (L) TRANS TYPE | | EVAPORATIVE FAMILY | EXH ECS | OBD |
|------|------------|-----------|-----------------------------|------|-----------------------|------------|-----|
| FORD | RANGER 2WD | LDT3 | 2.3 | SA10 | MFMXR0135NDG | 1 | F |
| FORD | RANGER 4WD | LDT3 | 2.3 | SA10 | MFMXR0135NDG | 1 | F |
| FORD | RANGER 4WD | LDT4 | 2.3 | SA10 | MFMXR0135NDG | 1 | F |