

Pursuant to the authority vested in California Air Resources Board by Health and Safety Code Divisions 25.5 and 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 on-road motor vehicles with a manufacturer's GVWR over 10,000 pounds are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	VEHICLE FAMILY NAME	VEHICLE TYPE	VEHICLE SERVICE CLASS	SUBCATEGORY (Vehicle Size / Engine Cycle / Duty Cycle)	VEHICLE MAKE & MODELS
2021	MFMX2VOCV3AA	Vocational	Light HDV	Light HDV / Otto / Multi-Purpose	Ford: Super Duty F-350/F-450/F-550; E-350/E-450; Commercial Stripped Chassis

EMISSION CONTROL SYSTEMS

LRRA

*=not applicable; **VSL** = Vehicle speed limiter; **VSLs** = "Soft-top" vehicle speed limiter; **VSLE** = Expiring vehicle speed limiter; **VSLD** = Vehicle speed limiter with both "soft-top" and expiration; **IRTS** = Engine shutoff after 5 minutes or less of idling; **IRTE** = Expiring engine shutoff; **LRRA** = Low rolling resistance tires (all); **LRRD** = Low rolling resistance tires (drive); **LRRS** = Low rolling resistance tires (steer); **ATS** = Aerodynamic side skirt and/or fuel tank fairing; **ARF** = Aerodynamic roof fairing; **ARFR** = Adjustable height aerodynamic roof fairing; **TGR** = Gap reducing tractor fairing (tractor to trailer gap); **ADVH** = Vehicle includes advanced hybrid technology components; **ADVO** = Vehicle includes other advanced-technology components (i.e., non-hybrid system); **INV** = Vehicle includes innovative (off-cycle) technology components; **ATI** = Automatic tire inflation system; **TPMS** = Tire pressure monitoring system; **WR** = Weight Reduction

Shown below are the CO₂ Greenhouse Gas Exhaust Emission Standard (STD) in g/ton-mile and/or the CO₂ Family Emission Limit(s) (FEL) of the listed vehicle family in g/ton-mile as applicable under 17 CCR 95663:

GVWR (pounds)	STD [CO ₂ (in g/ton-mile)]	Highest Projected FEL [CO ₂ (in g/ton-mile)]	Lowest Projected FEL [CO ₂ (in g/ton-mile)]
10,000 < GVWR ≤ 19,000	407	408	361

BE IT FURTHER RESOLVED: The manufacturer has demonstrated certification compliance with the Greenhouse Gas Emission Standards as specified in Title 17 CCR 95663 and the incorporated "California Greenhouse Gas Exhaust Emission Standards and Test Procedures for 2014 and Subsequent Model Heavy-Duty Vehicles" (HDV Test Procedures) adopted October 21, 2014 as last amended June 27, 2019.

BE IT FURTHER RESOLVED: For the listed air conditioning platform(s) in the attachment the manufacturer has demonstrated certification compliance with the AC Leakage Standard specified in 17 CCR 95663(a)(1)(B)7 and Section 1037.115 of the incorporated "California Greenhouse Gas Exhaust Emission Standards and Test Procedures for 2014 and Subsequent Model Heavy-Duty Vehicles" (HDV Test Procedures) adopted October 21, 2014, as last amended June 27, 2019.

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), and 13 CCR 2035 et seq. (emission control warranty).

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

This Executive Order hereby supersedes Executive Order A-010-2311-1 dated January 22, 2021.

Executed on this 13th day of November 2021.



Allen Lyons, Chief
 Emissions Certification and Compliance Division

A/C PLATFORM SUMMARY TABLE

Vehicle family		Date	EO	
MFMX2VOCV3AA		10/21/2021	A-010-2311-2	
A/C Platform ID	Refrigerant Type	Refrigerant Capacity (g)	STD (HFC (g/year))	Leakage Rate (HFC (g/year))
E-Series, 7.3L GAS, Aux	R-134a	1531	23.0	10.4
E-Series, 7.3L GAS, Non	R-134a	850	12.8	9.5
Super Duty, 7.3L GAS	R-134a	765	11.5	7.2
Commercial Stripped Chassis, 7.3L GAS, Incomplete A/C, Morgan Olson	R-134a	998	15.0	12.0
Commercial Stripped Chassis, 7.3L GAS, Incomplete A/C, Utilimaster	R-134a	1021	15.3	11.8
E-Series, 7.3L GAS, Incomplete A/C, Morgan Olson	R-134a	907	13.6	13.5
E-Series, 7.3L GAS, Incomplete A/C, Thor Proair	R-134a	1248	18.7	12.7
E-Series, 7.3L GAS, Incomplete A/C, Utilimaster	R-134a	1021	15.3	13.2