

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.

VEHICLE FAMILY INFORMATION:

Model Year: 2023

Vehicle Family Name: PFMX2VOCV4AA

Vehicle Type: Vocational

Vehicle Service Class: Light HDV

Vehicle Subcategory: Light HDV / Otto / Regional

Gross Vehicle Weight Rating (GVWR) of Vehicles (pounds): $10,000 < GVWR \leq 19,500$

CO₂ FAMILY EMISSION LIMITS:

CO₂ Standard (g/ton-mile): 335

Highest Projected Family Emission Limit (g/ton-mile): 349

Lowest Projected Family Emission Limit (g/ton-mile): 340

EMISSION CONTROL SYSTEMS:

Low rolling resistance tires all (LRRRA)

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 September 9, 2021.


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 September 9, 2021.

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 1978 (complete vehicles) (vehicle refueling emissions standards), and 13 CCR 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: The engine families that are approved for installation within the vehicle family are listed in the attachment.

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

Executed on this 23rd day of January 2023.



Robin U. Lang, Chief
Emissions Certification and Compliance Division

Vehicle Make and Models:**Vehicle Make**

Ford

Ford

Models

E-350, E-450

Motorhome Stripped Chassis (Incomplete vehicle)

Engine Families in Vehicle Family:

PFMXE07.3BWU

PFMXE07.3BW7

A/C Platform Summary:**A/C Platform ID**

E-Series, 7.3L GAS, Aux

E-Series, 7.3L GAS, Non

Motorhome Stripped Chassis, 7.3L GAS,
Incomplete A/C, Ford Chassis Thor Motor
CoachMotorhome Stripped Chassis, 7.3L GAS,
Incomplete A/C, Ford Chassis TiffinMotorhome Stripped Chassis, 7.3L GAS,
Incomplete A/C, Ford Chassis WinnebagoMotorhome Stripped Chassis, 7.3L GAS,
Incomplete A/C, Ford Chassis Forest RiverMotorhome Stripped Chassis, 7.3L GAS,
Incomplete A/C, Ford Chassis Jayco
BergstromMotorhome Stripped Chassis, 7.3L GAS,
Incomplete A/C, Ford Chassis Jayco ProAirMotorhome Stripped Chassis, 7.3L GAS,
Incomplete A/C, Ford Chassis Newmar ACMotorhome Stripped Chassis, 7.3L GAS,
Incomplete A/C, Ford Chassis REVE-Series, 7.3L GAS, Incomplete A/C, to be
completed by Morgan OlsonE-Series, 7.3L GAS, Incomplete A/C, to be
completed by Thor ProairE-Series, 7.3L GAS, Incomplete A/C, to be
completed by UtilimasterMotorhome Stripped Chassis, Hometown
Trolley 190 & 208 Chassis FrontMotorhome Stripped Chassis, Hometown
Trolley 190 Chassis RearMotorhome Stripped Chassis, Hometown
Trolley 208 Chassis Rear**E-Series, 7.3L GAS, alternate Incomplete
A/C, to be completed by Thor with
Bergstrom****Refrigerant****Type**

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a

R-134a**Refrigerant****Capacity (g)**

1531

850

1248

1270

1134

1248

1134

1248

1248

1248

907

929

1021

3175

2722

2722

929**STD (HFC (g/year))**

23.0

12.8

18.7

19.1

17.0

18.7

17.0

18.7

18.7

18.7

13.6

13.9

15.3

47.6

40.8

40.8

13.9**Leakage Rate (HFC****(g/year)**

10.4

9.5

12.5

13.4

12.9

12.4

12.5

12.4

12.5

12.4

12.8

13.9

13.2

22.6

19.7

19.9

12.7

Motorhome Stripped Chassis, 7.3L GAS, alternate Incomplete A/C, Ford Chassis Thor Motor Coach with Bergstrom Completed '2010' AC system with Ford Suction Line	R-134a	1134	17.0	11.6
Motorhome Stripped Chassis, 7.3L GAS, alternate Incomplete A/C, Ford Chassis Thor Motor Coach with Bergstrom Completed 'Equivalent' AC system with Ford Suction Line	R-134a	1134	17.0	11.4
Motorhome Stripped Chassis, 7.3L GAS, alternate Incomplete A/C, Ford Chassis Forest River with Bergsterom Completed AC System with Ford Suction Line	R-134a	1134	17.0	11.3
Motorhome Stripped Chassis, 7.3L GAS, alternate Incomplete A/C, Ford Chassis REV with Victory Completed AC System including Victory Suction Line	R-134a	1248	18.7	13.1