



MASSDOT FULLY ACCESSIBLE VEHICLE GUIDE

AN OVERVIEW OF ACCESSIBLE VEHICLE SPECIFICATIONS

APRIL 2022

Introduction

The state's Mobility Assistance Program (MAP) and the Federal Transit Administration (FTA) Section 5310 Program provide capital funding to transit agencies, councils on aging, and private non-profits for the purchase of vehicles and related equipment to be used in the provision of transportation services to older adults and individuals with disabilities of any age.

Through these two programs, MassDOT provides funding for accessible vehicles that meet a set of minimum standards, described below. MassDOT pays an 80% share of the cost of the "base vehicle". This refers to all parts of the vehicle required to meet the minimum standards described in this document, but none of the additional features that may be present. Receiving agencies may elect to purchase vehicles with additional features, but these options must be fully paid for by that agency.

MassDOT retains the vehicle titles for the duration of their useful lives. After this period has elapsed, the agency may request that the title be transferred to them through the GrantsPlus+ system.

Below are type-specific standards for each of MassDOT's accessible vehicle. **Please be aware that the listed vehicle costs are just estimates and actual cost will vary depending on the PPI index at the time the order is placed. A new vehicle procurement is underway, and the vehicle brand and configuration for each vehicle type (A, E, E2, C, LF, and D) will be decided during the Commonwealth's procurement process. Current contract dealers, manufacturers, and vehicle models have yet to be determined. All pictures and diagrams included below are for reference and do not necessarily reflect the specific configuration to be procured and awarded for each vehicle type.**

Types of Vehicles

The types of vehicles MassDOT procures are:

Type A – Minivan type vehicle with maximum 2 wheelchair positions and electronic accessibility ramp, seats up to four ambulatory passengers (less or no ambulatory capacity with wheelchair occupancy).

Type E – 8 Passenger - Raised-roof “body-on-chassis cutaway,” single rear wheel, with wheelchair lift, seats up to eight ambulatory passengers and has 2 wheelchair positions (less ambulatory capacity with wheelchair occupancy).

Type E2 – 12 Passenger - Raised-roof “body-on-chassis cutaway,” dual rear wheel, with wheelchair lift, seats up to 12 ambulatory passengers and has 2 to 3 wheelchair positions.

Type C – 14 Passenger - Raised-roof “body-on-chassis cutaway,” dual rear wheel, with wheelchair lift, seats up to 14 ambulatory passengers and has 2 to 4 wheelchair positions (less ambulatory capacity with full wheelchair occupancy).

Type LF – 14 Passenger – Raised-roof “body-on-chassis cutaway,” dual rear wheel with electronic accessibility ramp, seats up to 14 ambulatory passengers and has 2 wheelchair positions (less ambulatory capacity with full wheelchair occupancy).

Type D – 16 Passenger - Raised-roof “body-on-chassis cutaway,” dual rear wheel, with wheelchair lift, seats up to 16 ambulatory passengers and has four wheelchair positions (less ambulatory capacity with full wheelchair occupancy).

Vehicle Specifications

Each vehicle type has a different set of specifications, but certain standards apply across all vehicles:

- The basic vehicle standard currently only covers gasoline-, and (where available) CNG- and propane-powered vehicles. There is the possibility of an electric vehicle (EV) option for some of the vehicle types listed above, details have yet to be determined and will be decided during the procurement process. For budgeting purposes, the estimated cost of the EVs is expected to range from \$200,000-\$265,000 depending on the vehicle type. EV charging infrastructure is the responsibility of the agency.
- “Passenger Capacity” below refers to the maximum number of ambulatory passengers capable of being transported in the vehicle. Wheelchair passengers may take up the space of two or more ambulatory passengers, so a vehicle may be full even though it contains fewer people than its maximum passenger capacity.
- All vehicles must have a rear emergency door.

Optional Features

Receiving agencies that wish to do so may purchase additional vehicle features, at their own expense, in accordance with the approved RFR. Options that may be upgraded include:

- ITS and communications (automatic vehicle locators, fareboxes, electronic signage, etc.)
- Passenger amenities (seating, wifi, etc.)
 - Driver amenities (seating, cruise control, etc.)
 - Paint scheme/details (base vehicle is white with vinyl striping)
 - Bike racks

Type A



Capacity: 7-passenger

Body Design: Minivan conversion

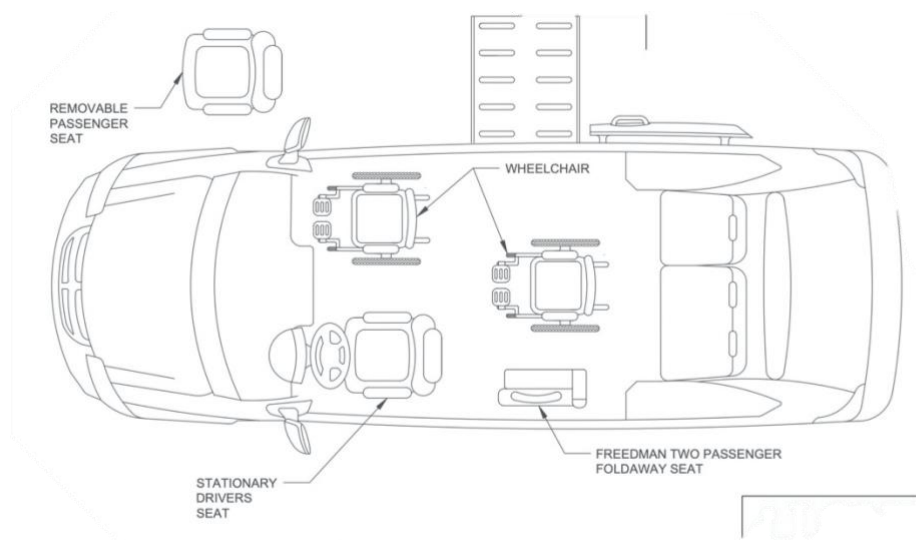
Wheelchair Accommodation: Two positions Max.

Driver's License Req.: Class D

Useful Life: Six Years or 100,000 miles

Other Fuel Options: N/A

Gas Option	Type A
Total Cost	\$64,571
80% Split	\$51,657
20% Split	\$12,914



Type E



Capacity: 8-passenger

Body Design: Body-on-chassis, single rear wheel

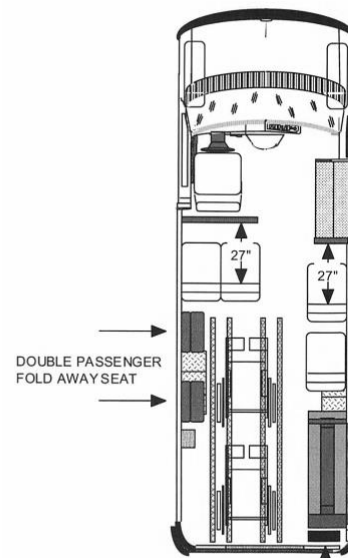
Wheelchair Accommodation: 2 wheelchair positions

Driver's License Req.: Class D

Useful Life: Six Years or 100,000 miles

Other Fuel Options: N/A

Gas Option	Type E
Total Cost	\$80,522
80% Split	\$64,418
20% Split	\$16,104



Type E2



Capacity: 12-passenger

Subtypes: Type E2_a (Flat Floor), Type E2_b (Standard Floor)

Body Design: Body-on-chassis, dual rear wheel

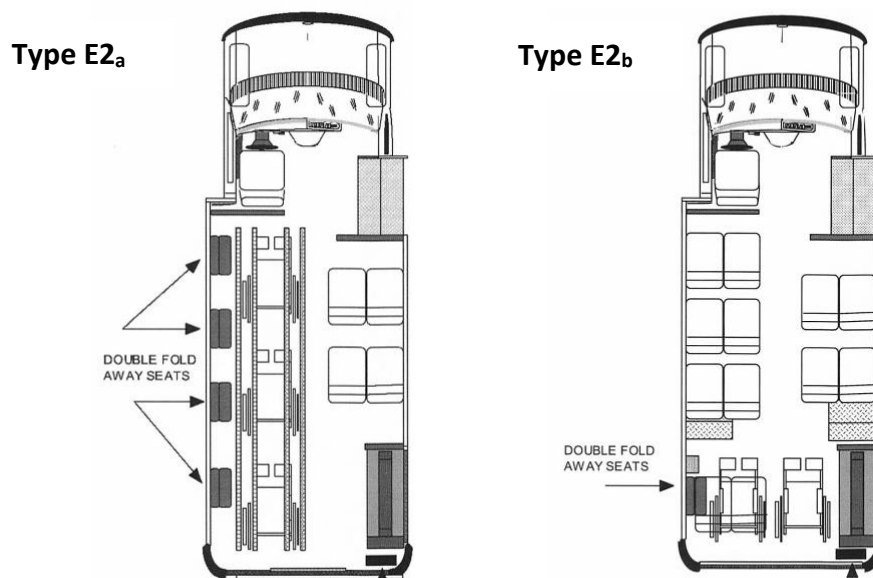
Wheelchair Accommodation: 3 wheelchair positions (Type E2_a Flat Floor), 2 wheelchair positions (Type E2_b Standard Floor)

Driver's License Req.: Class D

Useful Life: Six Years or 100,000 miles

Other Fuel Options: N/A

Gas Option	Type E2 _a (Flat Floor)	Type E2 _b (Standard Floor)
Total Cost	\$86,567	\$84,505
80% Split	\$69,254	\$67,604
20% Split	\$17,313	\$16,901



Type C



Capacity: 14-passenger

Subtypes: Type C_a (Flat Floor), Type C_b (Standard Floor)

Body Design: Minibus design

Wheelchair Accommodation: 4 wheelchair positions (Type C_a Flat Floor), 2 wheelchair positions (Type C_b Standard Floor)

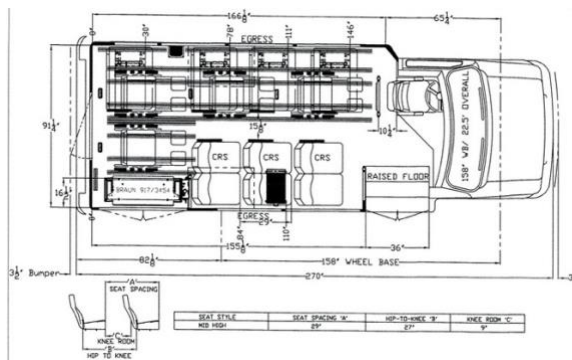
Driver's License Req.: Class D

Useful Life: Seven Years or 150,000 miles

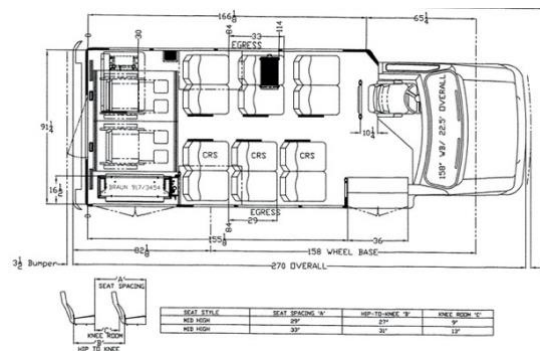
Other Fuel Options: CNG and Propane available (RTAs only), if interested please contact MassDOT for pricing information.

Gas Option	Type C _a (Flat Floor)	Type C _b (Standard Floor)
Total Cost	\$87,161	\$82,888
80% Split	\$69,729	\$66,310
20% Split	\$17,432	\$16,578

Type C_a



Type C_b



Type LF



Capacity: 14-passenger

Body Design: Minibus design

Wheelchair Accommodation: 2 wheelchair positions

Driver's License Req.: Class D

Useful Life: Seven Years or 150,000 miles

Other Fuel Options: N/A

Gas Option	Type LF
Total Cost	\$137,927
80% Split	\$110,342
20% Split	\$27,585



Type D



Capacity: 16-passenger

Subtypes: Type D_a (Flat Floor), Type D_b (Standard Floor)

Body Design: Minibus design

Wheelchair Accommodation: 4 wheelchair positions (Type D_a Flat Floor), 2 wheelchair positions (Type D_b Standard Floor)

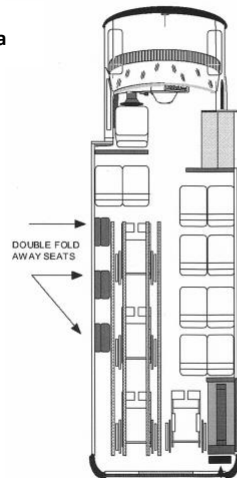
Driver's License Req.: Commercial Driver's License (CDL)

Useful Life: Seven Years or 150,000 miles

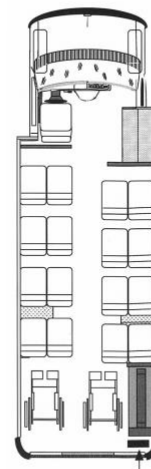
Other Fuel Options: CNG and Propane available (RTAs only), if interested please contact MassDOT for pricing information.

Gas Option	Type D _a (Flat Floor)	Type D _b (Standard Floor)
Total Cost	\$90,651	\$86,377
80% Split	\$72,521	\$69,102
20% Split	\$18,130	\$17,275

Type D_a



Type D_b



Title VI Notice to Public

Translation

English: If this information is needed in another language, please contact the MassDOT Title VI Specialist at 857-368-8580.

Portuguese: Caso esta informação seja necessária em outro idioma, favor contar o Especialista em Título VI do MassDOT pelo telefone 857-368-8580.

Spanish: Si necesita esta información en otro idioma, por favor contacte al especialista de MassDOT del Título VI al 857-368-8580.

Chinese Simplified: (mainland & Singapore): 如果需要使用其它语言了解信息，请联系马萨诸塞州交通部（MassDOT）《民权法案》第六章专员，电话857-368-8580。

Chinese Traditional: (Hong Kong & Taiwan): 如果需要使用其它语言了解信息，請聯繫馬薩諸塞州交通部（MassDOT）《民權法案》第六章專員，電話857-368-8580。

Russian: Если Вам необходима данная информация на любом другом языке, пожалуйста, свяжитесь со специалистом по Титулу VI Департамента Транспорта штата Массачусетс (MassDOT) по тел: 857-368-8580.

Haitian Creole: Si yon moun vle genyen enfòmasyon sa yo nan yon lòt lang, tanpri kontakte Espesyalis MassDOT Title VI la nan nimewo 857-368-8580.

Vietnamese: Nếu quý vị cần thông tin này bằng tiếng khác, vui lòng liên hệ Chuyên viên Luật VI của MassDOT theo số điện thoại 857-368-8580.

French: Si vous avez besoin d'obtenir une copie de la présente dans une autre langue, veuillez contacter le spécialiste du Titre VI de MassDOT en composant le 857-368-8580.

Italian: Se ha bisogno di ricevere queste informazioni in un'altra lingua si prega di contattare lo Specialista MassDOT del Titolo VI al numero 857-368-8580.

Khmer: ប្រសិនបើលោក-អ្នកត្រូវការបកប្រែព័ត៌មាននេះ សូមទាក់ទងអ្នកឯកទេសលើជំពូកទី6 របស់MassDot តាមរយៈលេខទូរស័ព្ទ 857-368-8580

Arabic:

إن كنت بحاجة إلى هذه المعلومات بلغة أخرى، يُرجى الاتصال بأخصائي الفقرة السادسة على الهاتف
857-368-8580