

Specialized Transportation Program

FY 2014 – 2015 Vehicle Catalog and Selection Guide



Ohio Department of Transportation
Office of Transit

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The ODOT Vehicle Selection Guide presents vehicles and equipment available to public transit providers and non-profit organizations serving the transportation needs of seniors and individuals with disabilities.

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Selecting the Proper Vehicle

This section is designed to applicants determine the proper vehicle to meet their needs. Because you will be operating your vehicle for several years, it is important to take the time before purchasing a vehicle to review your transportation needs and requirements.

Factors to consider:

- Capacity needs
- Client needs
- Purchase price
- Type of service
- Operating environment
- Operating cost
- Preventative maintenance cost
- Safety and comfort
- Weight capacity
- Future needs
- Regulatory requirements
- ADA requirements
- Ability to train or hire drivers with a Commercial Drives License (CDL)

Questions to answer regarding your needs and requirements

1. Do you need an accessible vehicle?

If your vehicle will be used to transport individuals with disabilities who use wheelchairs, you will need to purchase a vehicle with an accessibility package including a lift or ramp, wheelchair securement, and other related equipment. Even if you do not routinely transport such individuals, you may be required to purchase an accessible vehicle due to ADA or ODOT requirements. In order to receive a non-accessible vehicle from ODOT, at least 50% of your vehicle fleet must be accessible.

2. What are your capacity needs?

You must consider a number of items with regard to vehicle capacity needs:

- The maximum number of individuals the vehicle will transport at the same time and on a regular basis.
- How many ambulatory and non-ambulatory riders will be transported at the same time and on a regular basis?
- What your fuel needs are.

3. On what type and condition of roads will the vehicle operate?

Rural Areas: These areas are generally characterized by narrow, twisting roads and often involve travel on unpaved (i.e. gravel and dirt) surfaces. Travel distances tend to be greater and speeds higher than in other types of service areas.

Residential Neighborhoods: These areas often have narrow, dead-end streets and cul-de-sacs. Vehicle width and length can make for difficult maneuvering in tight areas, especially where backing up is required or where parked vehicles may be present.

Cities and Villages: These areas generally have through (i.e. not dead ends or cul-de-sacs) streets of sufficient width to accommodate any vehicle offered under the ODOT program. Height, however, may be a problem in accessing parking garages, apartment building entrance overhangs, and other similar structures.

4. What type of service will the vehicle provide?

- **Demand Response:** Also known as paratransit, this service involves door-to-door or curb-to-curb transportation with routes and schedules that change daily in response to rider demands for service. For the most part, clientele served includes seniors and persons with disabilities in both urban and rural areas, and general public riders in rural areas.
- **Repetitive Route:** This service operates over the same routes as long as the clientele is constant. A change in clients would mean a change in routes. Service involves many origins and only one destination.
- **Group Trips:** This service generally entails transporting groups of individuals from the same origin to the same destination at the same time. Since all passengers travel together from beginning to end, selecting a vehicle to perform this type of service is dependent upon how many riders tend to make up a group, any special needs they may have, the expected journey time, and road conditions to be encountered.

5. How much will the vehicle cost to purchase and operate?

Most, if not all, agencies have very limited budgets and are therefore restricted in their spending to purchase new vehicles. The heavier and higher capacity the vehicle, the more it will cost to operate. Larger vehicles tend to consume more fuel, have high maintenance costs, and are more expensive to insure than smaller vehicles.

6. Will drivers need a CDL?

Drivers must obtain a CDL whenever they operate a vehicle originally configured to transport more than 15 persons plus the driver. Obtaining a CDL is a time-consuming and rigorous process. CDL drivers are also subject to US DOT drug and alcohol testing and physical requirements.

7. What level of comfort do your clients need?

The type of clients you serve (e.g. seniors, persons with disabilities, etc.) and the type of service you operate (demand response, fixed route, group trips) will have a large bearing on your selection. Elements to consider include:

- Interior Mobility
- Wheelchair maneuverability
- Step height
- Rise quality
- Jump seats

8. Can you store and clean a large vehicle?

Large vehicles require more storage room. If you are storing the vehicle outside, make sure your lot is large enough. Outside storage in winter may cause problems for operating hydraulic equipment, such as the lift. If storing in a garage, make sure the vehicle will clear the entrance on the top and sides and that there is adequate room inside to store and maneuver the vehicle.

Legislation and Regulations

Various pieces of enacted legislation and regulations may impact your vehicle selection and operation. Below is a partial list of both, with links for further information.

Enacted Legislation

- Americans with Disabilities Act
<http://www.fta.dot.gov/civilrights/12325.html>
- Commercial Motor Vehicle Safety Act of 1986, which addresses CDL requirements
http://bussafety.fta.dot.gov/list_resources.php?category_id=1684
<http://www.bmv.ohio.gov/cdl.stm>
- Occupational Safety and Health Act, which addresses hazardous materials including bloodborne pathogens
http://bussafety.fta.dot.gov/list_resources.php?category_id=1350
- Title VI of the Civil Rights Act of 1964
<http://www.fta.dot.gov/civilrights/12328.html>

Regulations

- Federal Motor Carrier Safety Administration and Surface Transportation Board Regulations concerning Interstate Motor Operations
<http://www.fmcsa.dot.gov/registration-licensing/licensing/overview.htm>
- Ohio State Highway Patrol Mandatory Commercial Bus Inspection
<http://statepatrol.ohio.gov/units.stm#mce>
<http://statepatrol.ohio.gov/doc/2007%20Ohio%20Bus%20Inspection%20Program.pdf>
- State Board of Emergency Medical, Fire and Transportation Services (successor to the Ohio Medical Transportation Board)
http://ems.ohio.gov/ems_medical_transportation.stm

What is an accessible vehicle?

The U.S. DOT's standards for accessible vehicles state that vehicles must include a lift or other level-change mechanism (i.e., ramp), which can accommodate mobility devices such as wheelchairs and scooters. Side-facing wheelchair positions are prohibited.

Vehicles in excess of 22' must provide at least two wheelchair positions. Vehicles 22' or shorter must provide at least one wheelchair position. Accessibility standards also require that the vehicle allow sufficient space for passengers using wheelchairs to access a securement position.

Accessible vehicle requirements are quite detailed and vary based on a number of factors. Additional requirements include the following:

- Lifts and ramps design and dimensional standards
- Securement system design standards
- Priority seating signs
- Interior circulation, handrails, and stanchions
- Exterior and interior lighting
- Farrebox placement
- Public information system
- Stop request sign
- Destination and route signs

List of Available Vehicles and Features

Available Vehicles

Modified Minivan (MMV)

This vehicle is very similar to the Standard Minivan; however, it is capable of accommodating up to two wheelchair passengers. The capacity is somewhat limited for ambulatory passengers. They are fuel efficient and maneuverable. No special licensing is required to operate a MMV.

Dedicated Mobility Access Vehicle (MV-1)

The MV-1 meets all applicable Federal Motor Vehicle Safety Standards (FMVSS) straight from the factory with no modifications that could jeopardize the vehicle's structure. It is dedicated to transporting all passengers; with or without mobility challenges.

Light Transit Vehicle, Narrow Body (LTN)

This vehicle is a body on chassis vehicle, which makes the interior slightly larger, seating up to eight. Additionally, it is subject to mandatory Ohio State Highway Patrol annual bus inspections. Overall purchase price, fuel, and maintenance costs will be higher than minivans.

Light Transit Vehicles, Wide Body (LTV)

This is the largest, most expensive, and most heavy-duty vehicle offered under this program. The largest LTV can accommodate up to 16 ambulatory passengers, plus two wheelchair passengers. Some LTVs require a CDL. Additionally, it is subject to mandatory Ohio State Highway Patrol annual bus inspections.

Standard Minivans (SMV)

*There is no FTA eligible state term contract for standard minivans. **Agencies using ODOT funding must get pre-approved for SMV purchases and will be responsible for bidding and awarding contracts and meeting all FTA requirements.** They must also follow an ODOT approved procurement policy including a protest procedure. ODOT must approve each step of the procurement process.*

These vehicles have a limited capacity and can accommodate a maximum of six ambulatory passengers. They are the most maneuverable and do not require special licensing to operate. They are fuel-efficient and environmentally safe.

Standard Features

- Fully-insulated side walls and roof
- Air conditioning
- Tilt steering wheel
- Cruise control
- Adjustable driver's seat
- Intermittent windshield wipers
- Back-up alarm
- Automatic transmission
- Power steering and power brakes
- Heavy-duty equipment (cooling system, springs, and shock absorbers)
- Rear auxiliary heater (where necessary)
- Tinted glass on all windows
- Radial tires with a full-size spare
- Drive shaft guard (rear wheel drive and four wheel drive only)
- Standard gauges
- Emergency exits
- Rubber floor covering (Except SMV)
- Slip-resistant material on all steps, aisles and wheelchair securement
- OEM Standard Horn
- Emergency equipment
- Rust proofing on chassis (body on LTN and LTV)
- Seat belts (driver and passenger)
- Left and right hand outside mirrors with vision expansion system
- Priority seating signs for persons with disabilities
- Stanchions, grab rails, and barrier panels (excludes MMV and SMV)
- International accessibility symbol
- AM-FM radio with CD player

Additional Features

Features	MMV	MV-1	LTN	LTV > 22	LTV > 25	SMV
Not Accessible						X
Maneuverable	X	X				X
Standard Parking	X	X				X
Fuel Efficient	X	X				X
Accessible/Ramp		X				
Accessible/Lift			X	X	X	
Interior Height		58.3"	72"	72"	72"	
Aisle Width	N/A	N/A	20"	14"	14"	N
Seating Capacity	3-5	5	6-10	6-14	15-18	7
Limited Headroom	X	X				X
Limited Interior Space	X	X				X
Low Ground Clearance	5"	6"				
Roof Clearance			11"	11"	11"	
Vehicle Width			82"	90"	90"	
Entryway Door			32"	32"	32"	
Vehicle Weight			11,500	12,300	14,050	
Yearly Highway Patrol Inspection			X	X	X	

Vehicle Details

Standard Minivan (SMV)

There is no FTA eligible state term contract for standard minivans. Agencies using ODOT funding must get pre-approved for SMV purchases and will be responsible for bidding and awarding contracts and meeting all FTA requirements. They must also follow an ODOT approved procurement policy including a protest procedure. ODOT must approve each step of the procurement process.

The Standard Minivan is available in a six-passenger size. Standard Minivans are the least expensive of all available vehicles and include only minor modifications to the factory-provided vehicle. These vehicles are not wheelchair accessible.

Seating is factory standard, providing limited access to the rear bench seat. Headroom is also standard, requiring most individuals to stoop when entering, exiting, and moving within the vehicle. Additionally, the standard step height of this vehicle is higher than modified vehicles, which may limit access for some individuals.

The Standard Minivan is fuel-efficient, economical, and is easy to maintain and maneuver. This vehicle can operate properly on most roads and in most environments. The passenger can enjoy a pleasant, safe ride no matter what environmental conditions exist.

Vehicle Summary:

Capacity Options (ambulatory/non-ambulatory): 6/0

Wheelchair Accessible: No

Length: 16'

Width: 72"

Height: 79"

Road Conditions: No restrictions

Suggested Service Type: Demand response

Capital Cost: Highest cost to passenger ratio

Maintenance: Normal preventative maintenance required.

Misc. Requirements: Applicants must certify at least 50% of their current fleet is wheelchair accessible

Standard Equipment:

- 3.0 Liter, V6 Engine
- 500 CCA Single Battery Capacity
- 90 amp Alternator
- Minimum 20 Gallon Fuel Tank
- Rear Window Defroster
- Carpeted Interior with Floor Mats
- Sliding Side Door
- Adjustable Driver's Seat
- Metal Body Panels
- Stainless Steel Exhaust with Aluminized Muffler and Tail Pipe
- Composite Halogen Headlight

Floor Plans:

This vehicle will consist of factory-standard seating and will accommodate 6 passengers plus the driver. Floor plans include one passenger seat to the right of the driver; one two-passenger bench seat behind the driver; and one three-passenger bench seat at the rear of the vehicle.

Modified Minivan (MMV)



This vehicle is a standard production minivan modified by lowering the floor and, in some cases, modifying the roof at the entryway to provide the 58" headroom required by ADA. It is the smallest accessible vehicle available, accommodating up to two wheelchairs and one permanent seat, with an option for quick-release seats for three additional ambulatory persons in the wheelchair securement locations.

MMVs are equipped with a ramp for access by riders using wheelchairs. Lifts are not available on this vehicle. The manual ramp unfolds for riders using wheelchairs. With the lowered floor, the ramp entry angle is quite low which, in some situations, allows riders using wheelchairs to board the vehicle unassisted.

The vehicle is reinforced with sturdy cross-members, giving it a lower center of gravity for a smoother ride while maintaining full driving capabilities. Due to the vehicle being lower to the ground, it may be harder to operate on some terrain.

Vehicle Summary:

Capacity Options (ambulatory/non-ambulatory): 3/0, 1/2, 2/1, 4/0

Wheelchair Accessible: Yes, side mounted ramp

Length: 16'

Width: 72"

Height: 75"

Road Conditions: Not recommended in low ground clearance areas

Suggested Service Type: Demand response

Capital Cost: Highest cost to passenger ratio for an accessible vehicle

Maintenance: Normal preventative maintenance with added care to accessibility components

Standard Equipment:

- 3.0 Liter, V6 Engine
- 630 CCA Single Battery Capacity
- 100 amp Alternator
- Minimum 20 Gallon Fuel Tank
- Rear Window Defroster
- Rear Window Washer/Wiper
- Sliding Side Door
- Adjustable Driver's Seat

- Metal Body Panels
- Stainless Steel Exhaust with Aluminized Muffler and Tail Pipe
- Composite Halogen Headlights

Accessibility Package:

- Manual Swing-Away Ramp
- Wheelchair Securement System
- Wheelchair Occupant Securement System

Available Configurations:

Vehicle Designation	Seating Option	Seating Configuration	Ambulatory Seating	Wheelchair Positions	Total Seating
Variation 1	Basic with folding seat option	Basic with center seat down	5	0	5
		Basic with center mobility position used	2	1	3
		With Front mobility position	4	1	5
		With Front and Center Mobility Position	1	2	3
Variation 2	Basic without center seat no center seat	Middle Mobility Position	2	1	3
		Front and Center Mobility Position	1	2	3
		No mobility position	3	0	3

Floor Plans:

Floor Plan 1 with Middle Seat: This option offers a two passenger fold-away seat for use when there is no wheelchair in the middle position.

Variation 1, Center Seat Used: This variation accommodates five ambulatory passengers - one in the right front passenger seat and two in the rear bench seat and two in the middle bench seat.

Variation 3, Middle and Front Mobility Position: This variation accommodates two wheelchair positions, one in the front curbside passenger seat and one in the middle and one ambulatory person in the rear. The front wheelchair position loads from the curbside middle of the vehicle, therefore, the middle wheelchair position would have to exit the vehicle for the front position to enter or leave the vehicle. One additional ambulatory passenger may be seated.

Variation 3, Front Mobility Position Used: This variation accommodates one wheelchair position in the front curbside passenger seat, two ambulatory passengers in the middle seat and two ambulatory passengers in the rear seat. The middle and rear seat passengers must exit the vehicle in order to load or unload the wheelchair into the front position.

Floor Plan 2, Middle Seat Removed:

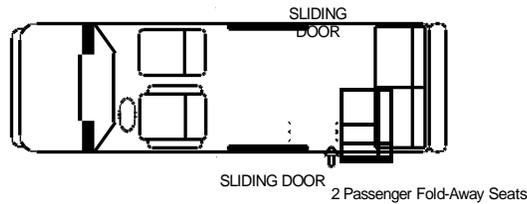
Variation 1: This variation accommodates three ambulatory passengers – one in the right front seat and two in the rear bench seat with no wheelchair position used.

Variation 2, Middle Wheelchair Position: This variation accommodates two ambulatory passengers – one in the passenger curbside seat and one in the rear, and one wheelchair position in the middle of the vehicle.

Variation 3, Front and Middle Wheelchair Positions Used: This variation accommodates one ambulatory passenger in the rear seat, and one wheelchair in the curbside front passenger seat and one middle wheelchair position. In order for the front wheelchair to enter or exit the vehicle, the middle wheelchair would have to exit the vehicle.

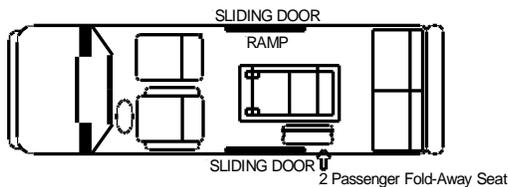
Version 1 - Middle Jump Seat Included

Variation1A



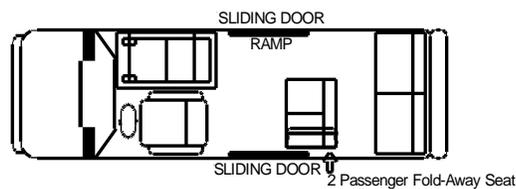
No mobility aids:
Driver, front passenger, two middle seat passengers and two rear passengers.

Variation 1B



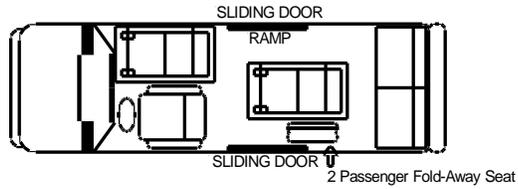
One mobility aid in center of vehicle:
Driver, front passenger, middle seat with mobility aid, one rear passenger

Variation 1C



One mobility aid in front passenger area of vehicle:
Driver, front seat with mobility aid, two middle seat passengers (fold down seat) and two rear passengers.

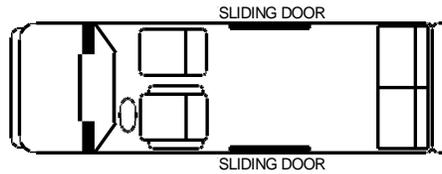
Variation 1D



Two mobility aids:
Driver, front seat with mobility aid, middle seat with mobility aid, one rear passenger.

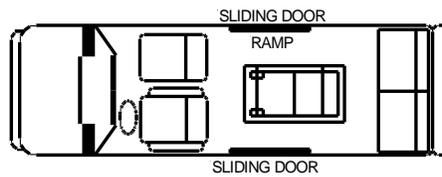
Version 2 - Middle Jump Seat Excluded

Variation 2A



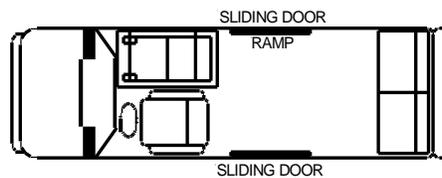
No mobility aids:
Driver, front passenger and two rear passengers.

Variation 2B



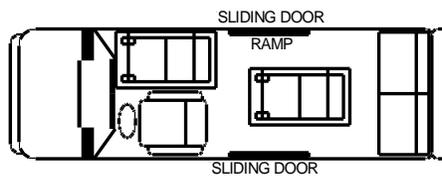
One mobility aid in center of vehicle:
Driver, front passenger, middle with mobility aid, one rear passenger

Variation 2C



One mobility aid in front passenger area of vehicle:
Driver, front seat with mobility aid and two rear passengers.

Variation 2D



Two mobility aids:
Driver, front seat with mobility aid, middle with mobility aid, one rear passenger.

Dedicated Mobility Access Vehicle (MV-1)



The MV-1 meets all applicable Federal Motor Vehicle Safety Standards (FMVSS) straight from the factory with no modifications that could jeopardize the vehicle's structure. It meets or exceeds the guidelines of the ADA. It has seating for up to five passengers, with the optional rear-facing jump seat. Passengers in wheelchairs or scooters can easily enter, and turn effortlessly so they may sit next to the driver. Universal wheelchair restraint track system integrated into floor. A large rear bench seat provides a perfect fit for everyone.

Vehicle Summary:

Capacity Options (ambulatory/non-ambulatory): 2/2, 3/1

Wheelchair Accessible: Yes

Length: 17.1'

Width: 79.4"

Height: 75"

Road Conditions: Not recommended in low ground clearance areas

Suggested Service Type: Any

Capital Cost: Reasonable cost for passenger capacity offered

Maintenance: Additional maintenance recommended

Standard Equipment:

- 4.6 Liter, V8 Engine
- 750 CCA Single Battery Capacity
- Minimum 24 Gallon Fuel Tank
- Adjustable Driver's Seat
- Power Mirrors
- Power Door Locks
- Cruise Control

Optional Equipment:

- Powered Ramp
- Center Console/Console Storage Area
- Rear Air Conditioning
- CNG System

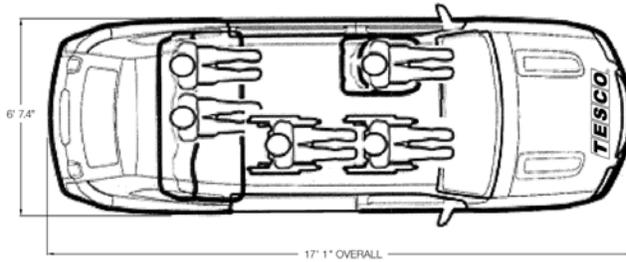
- Oxygen Tank Securement

Available Configurations:

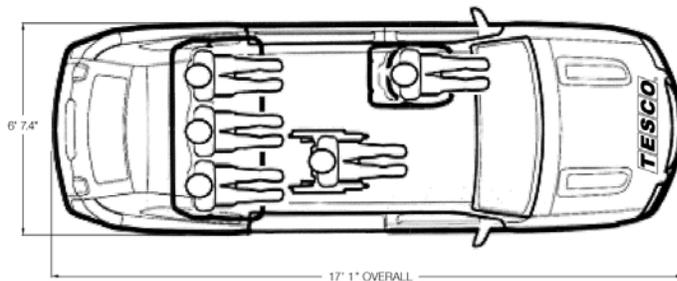
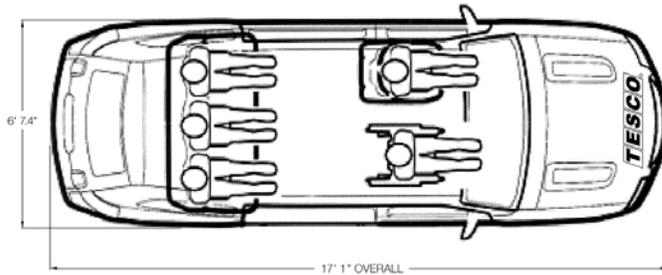
Vehicle Designation	Ambulatory Seating	Wheelchair Seating	Total Seating (with accessibility)
A	2	2	4
B	3	1	4
C	3	1	4
D	4	1	5

Floor Plans:

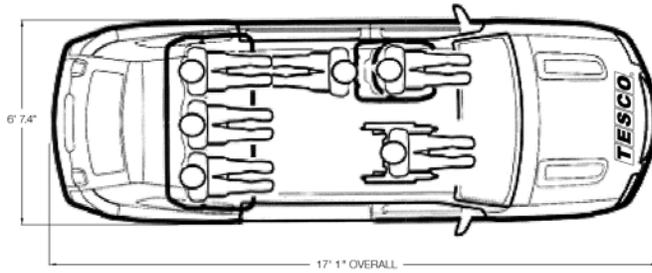
(A) 2 passenger with 2 wheelchair positions



(B) 3 passenger with 1 wheelchair position



(C) 3 passenger with 1 wheelchair position and jump seat



Light Transit Vehicle, Narrow Body (LTN)



The aisle width in an LTN is 12 inches. A CDL is not required for these vehicles, but they are subject to mandatory Ohio State Highway Patrol annual bus inspections.

In comparison to LTVs, the LTNs have less interior space (LTV width 90", LTN width 81.5") for wheelchairs and passenger maneuverability. They both have corrosion free bodies; good ground clearance, and share the same vehicle options.

All LTNs are equipped with an accessibility package. The lift is installed on the right rear side of the vehicle. A transit-style passenger door and steps are standard on this vehicle.

The LTN uses a cutaway chassis, which features dual tires on the rear axle. A full body passenger compartment is then added to the chassis. These bodies are custom designed and generally feature large windows and one piece exterior body panels to present a smooth, pleasing exterior appearance.

The Light Transit Vehicle, Narrow Body, has had technological changes in the construction and structure, which makes it a sturdier vehicle. The suspension has added support for the wheelchair lift, which provides for a smoother ride and longer under carriage component life. The entire chassis of the vehicle is coated with a robust anticorrosive treatment, which limits the effects of rust and corrosion.

Vehicle Summary:

Capacity Options (ambulatory/non-ambulatory): 8/2, 6/3, 4/2

Wheelchair Accessible: Yes

Length: 21'

Width: 88"

Height: 108'-112"

Road Conditions: Overhead clearance might be a problem

Suggested Service Type: Any

Capital Cost: Reasonable cost for passenger capacity offered

Maintenance: Additional maintenance recommended

Standard Equipment:

- 5.4 Liter, V8 Engine
- 2 Batteries, Main 650 CCA, Auxiliary 625 CCA
- Minimum 30 Gallon Fuel Tank
- Passenger Service Entry Door with Standing Headroom in Doorway
- Adjustable Driver's Seat

- Rear Tow Hooks
- Power Mirrors
- Power Door Locks
- Cruise Control
- Fiberglass over Steel Frame Body Panels
- Stainless Steel Exhaust with Aluminized Muffler and Tail Pipe, Exit on Street Side
- Composite Halogen Headlamps
- Wheelchair lift, wheelchair securement position, occupant securement system
- Entryway Steps – Max 12 Inches from Ground

Optional Equipment:

- Jump Seats
- Integrated Child Restraint Seat
- Diesel Engine
- Slip-Resistant Smooth Flooring
- Powered Transit-Style Door
- Energy-Absorbing Bumper
- Flat Floor
- Rear Bumper Sensor
- Under-Seat Luggage Rack w/o Reading Light
- Under-Seat Luggage Rack w/ Reading Light

Available Configurations:

LTN Designation	Ambulatory Seating	Wheelchair Positions	Total Seating	Jump Seat Positions
LTN 8-2	8	2	10	2
LTN 6-3	6	3	8	2
LTN 4-4	4	4	8	3

Floor Plans:

The LTN is available in three different configurations. All configurations use rear lifts. Please note that a two-passenger, three-step foldaway seat is used in lieu of the standard two-passenger seat for the rear-most seating position located in front of the wheelchair position of the LTN. The three-step foldaway seat’s back folds down against the seat bottom. The entire apparatus may then be folded against the wall to provide better access for securing a wheelchair. The seat may then be returned to its normal position.

LTN 8-2

This vehicle seats up to eight ambulatory passengers and two wheelchair passengers. The two forward facing wheelchair positions are located opposite the rear lift entrance. Interior wheelchair maneuverability is severely limited when using both wheelchair positions at once. Ambulatory seating includes six-regular forward facing seats and a forward facing, two-passenger, three-step fold away seat directly in front of the wheelchair position. Forward facing jump seats for up to two additional ambulatory passengers may be ordered as an option. They will be located at the

wheelchair positions, should only be used on an occasional basis, and should not be counted as part of the total number of ambulatory seats.

LTN 6-3

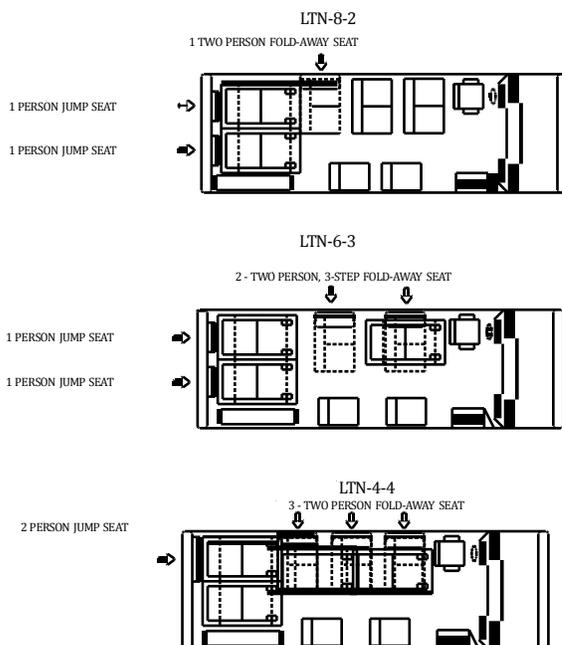
This vehicle seats up to six ambulatory passengers and three wheelchair passengers. Two of the wheelchair positions are located opposite the rear lift entrance. The third position is located at the left front of the vehicle, ahead of the fold up seats. All wheelchair positions are forward facing. Interior wheelchair maneuverability is severely limited when using all three wheelchair positions at once. Ambulatory seating consists of one row of four aisle facing regular seats and two aisle facing fold up seats. The fold up seats will ease wheelchair maneuverability but may entail asking ambulatory passengers to move when loading or unloading a wheelchair passenger. No forward facing regular passenger seats are provided. Two aisle-facing and two forward-facing jump seats providing seating for up to four additional ambulatory passengers may be ordered as an option. They will be located at the wheelchair positions, should only be used on an occasional basis, and should not be counted as part of the total number of ambulatory seats.

LTN 4-4

This floor plan may offer the greatest flexibility in the LTN category. The seating options range from two ambulatory passengers and four wheelchair passengers to 10 ambulatory passengers and no wheelchairs. Interior wheelchair maneuverability is severely limited when using all four wheelchair positions at once. Ambulatory seating consists of two single forward facing seats, three two-passenger fold-down seats located along the right side that provides six permanent seating locations, and two jump seats at the rear of the vehicle, when no wheelchairs are being transportation. Additionally, there are two wheelchair positions, one directly behind the other, located behind the driver. Two more wheelchair positions are located beside each other along the rear wall. The two-passenger, three-step, foldaway seats and jumps seats may not be used when the wheel chair positions are being used. All LTV 4-4s must be ordered with a flat floor.

EXAMPLE FLOOR PLANS

LIGHT TRANSIT VEHICLE - NARROW BODY



Light Transit Vehicle (LTV)



The LTV is the largest vehicle available under this program. It is available in two different body sizes, with the largest accommodating as many as sixteen ambulatory positions and two wheelchair positions. Six different floor plans are offered, making the LTV the most versatile vehicle under this program.

All LTVs are equipped with an accessibility package. The lift is installed either on the right front curbside of the vehicle or the right rear curbside. LTVs on the 25 foot chassis will be equipped with a minimum of two mobility aid positions to meet ADA requirements. LTVs offer superior boarding, exiting, and interior mobility. A transit-style passenger door and steps are standard on this vehicle.

The LTVs consist of a cutaway van chassis with a full body passenger compartment added. These bodies are custom designed and generally feature large windows and one-piece exterior body panels to present a smooth, pleasing exterior appearance. The LTV is a fiberglass over steel construction.

A CDL is required to operate the LTV-16-2, LTV-14-2, LTV-12-3 and the LTV-15-1. Additionally, all LTV vehicles are subject to mandatory Ohio State Highway Patrol annual bus inspection requirements.

Vehicle Summary:

Capacity Options (ambulatory/non-ambulatory): 14/1, 14/2, 12/2, 0/6, 16/2, 12/3

Wheelchair Accessible: Yes

Length: 22' or 25'

Width: 96"

Height: 108'-112"

Road Conditions: Overhead clearance might be a problem, not suited for narrow, twisting roads that restrict the vehicle width

Suggested Service Type: LTV-21 and LTV-25 are not recommended for some demand response type service

Capital Cost: Most expensive vehicle

Maintenance: Extensive maintenance requirements

Standard Equipment:

- 6.8 Liter, V8 Engine
- 2 Batteries, Main 650 CCA, Auxiliary 625 CCA
- 200 AMP Alternator
- Minimum 55 Gallon Fuel Tank
- Passenger Service Entry Door with Standing Headroom in Doorway
- Adjustable Driver's Seat
- Rear Tow Hooks
- Power Mirrors
- Power Door Locks
- Cruise Control
- Fiberglass over Steel Frame, Metal over Steel Cage, or Honeycomb Fiberglass Body Panels
- Stainless Steel Exhaust with Aluminized Muffler and Tail Pipe, Exit on Street Side
- Composite Halogen Headlamps
- Wheelchair lift, wheelchair securement position, occupant securement system
- Entryway Steps – Max 12 Inches from Ground

Optional Equipment:

- Jump Seats
- Integrated Child Restraint Seat
- Diesel Engine
- Passenger Call Bell System
- Public Information System
- Slip-Resistant Smooth Flooring
- Powered Transit-Style Door
- Energy-Absorbing Bumper
- Flat Floor
- Rear Bumper Sensor
- Under-Seat Luggage Rack w/o Reading Light
- Under-Seat Luggage Rack w/ Reading Light

Available Configurations:

	Vehicle Designation	Ambulatory Seating	Wheelchair Positions	Total Seating	Jump Seat Positions
22-Foot Vehicle	14-1*	14	1	15	1
	12-2	12	2	14	2
	0-6	0	6	6	0
25-Foot Vehicle	16-2*	16	2	18	2
	14-2*	14	2	16	4
	12-3*	12	3	15	4
* Requires CDL license					

Floor Plans:

The LTV is available in two body sizes (22 feet and 25 feet) and a total of 6 floor plan configurations.

LTV 22'

LTV 14-1

This vehicle seats up to 14 ambulatory passenger and one wheelchair passenger. The forward facing wheelchair position is located opposite the rear side lift entrance. Wheelchair maneuverability is ample. Ambulatory seating includes fourteen forward facing seats and three aisle-facing seats. One forward facing jump seat to provide seating for an additional ambulatory passenger may be ordered as an option. It will be located at the wheelchair position location, should be used only on an occasional basis and should not be counted as part of the total number of ambulatory seats.

LTV 12-2

This vehicle seats up to 12 ambulatory riders and two wheelchair passengers. Both forward facing wheelchair positions are located directly opposite the rear side lift entrance. Wheelchair maneuverability may become difficult when using both wheelchair positions at once. Ambulatory seating includes 12 forward facing positions. Forward facing jump seats for up to two ambulatory passengers may be ordered as an option. They will be located at the wheelchair position locations, should be used only on an occasional basis and should not be counted as part of the total number of ambulatory seats

LTV 0-6

This vehicle seats up to six wheelchair passengers. Wheelchair positions are located throughout the body of the vehicle and are all forward facing. Four three-step foldaway seats are located in front of the wheelchair positions to provide ambulatory seating for four passengers when the wheelchair positions are not used. The flat floor option must be chosen when requesting this configuration.

LTV 25'

Note: The ADA requirements mandate that vehicles longer than 22 feet must have a minimum of two mobility aid positions. Therefore, a floor plan with only one mobility aid position is not available on this model. These vehicles also come with two mandatory positions for child restraints. All floor plans under this category require a CDL.

LTV 16-2

This vehicle seats up to 16 ambulatory passengers and two wheelchair passengers. Both forward facing wheelchair positions are located directly opposite the rear side lift entrance. Wheelchair maneuverability may become difficult when using both wheelchair positions at once. Ambulatory seating includes 16 forward facing seats. Forward facing jump seats for up to two additional ambulatory passengers may be ordered as an option. They will be located at the wheelchair position locations, should be used only on an occasional basis and should not be counted as part of the total number of ambulatory seats.

LTV 14-2

This vehicle seats up to 14 ambulatory passengers and two wheelchair passengers. Both of the forward facing wheelchair positions are located opposite of the front side lift entrance, one behind the other. Ambulatory seating includes 14 forward facing seats. Aisle facing jump seats for up to four additional ambulatory passengers may be ordered as an option. They will be located at the wheelchair position locations, should be used only on an occasional basis and should not be counted as part of the total number of ambulatory seats.

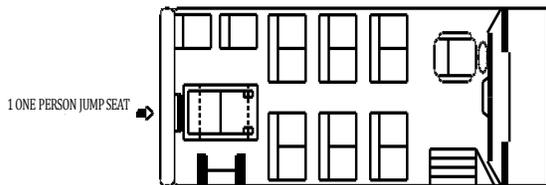
LTV 12-3

This vehicle seats up to twelve ambulatory passengers and three wheelchair passengers. Two of the wheelchair positions are located directly opposite the rear side lift entrance, while the other is located just forward the other two with all facing forward. Ambulatory seating includes eight forward facing regular seats and four aisle facing fold up seats. The fold up seats will ease wheelchair maneuverability but may entail asking passengers to move when loading or unloading a wheelchair passenger. Jump seats (two forward facing, two aisle facing) for up to four additional ambulatory passengers may be ordered as an option. They will be located at the wheelchair position locations, should be used only on an occasional basis and should not be counted as part of the total number of ambulatory seats.

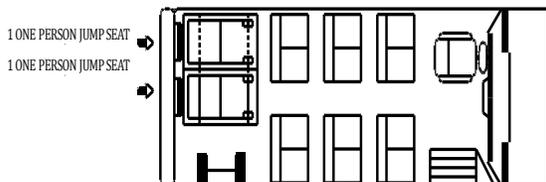
EXAMPLE FLOOR PLANS

21 PASSENGER BODY SIZE

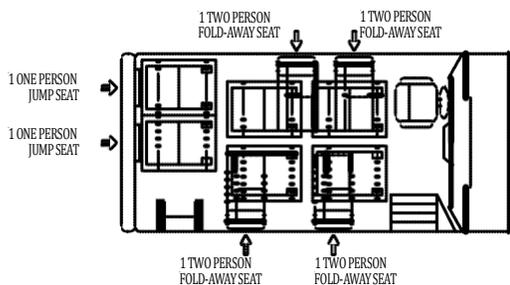
LTV-14-1



LTV-12-2

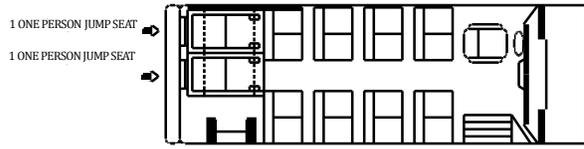


LTV-0-6



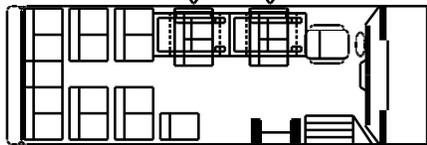
LIGHT TRANSIT VEHICLES
25 PASSENGER BODY SIZE

LTV-16-2



LTV-14-2

2 - TWO PERSON, 3-STEP, FOLD-AWAY SEAT



LTV-12-3

2 - TWO PERSON, 3-STEP, FOLD-AWAY SEAT

