



# D45 CRT LE

Accessibility on a whole new level.



**The MCI® D45 CRT LE commuter coach warmly welcomes all passengers, with an innovative low-entry vestibule with a ramp and adjoining seating area designed with mobility devices in mind.**

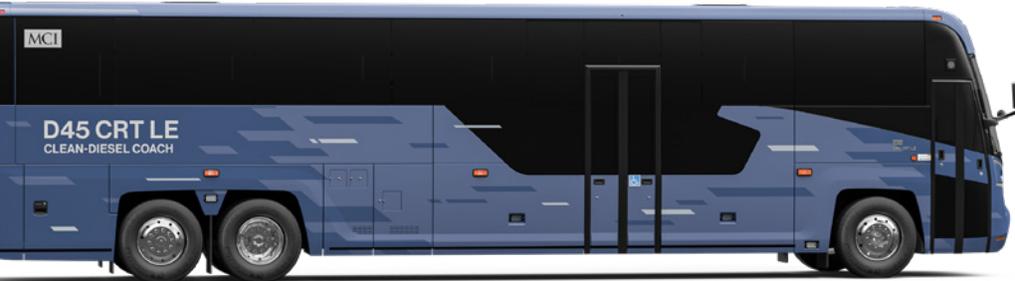
This breakthrough design offers unprecedented ease of entry and exit, and a new standard of comfort.

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## Models.

### Available in clean-diesel and battery-electric configurations.

Whether your goal is to reduce emissions, lower operational costs or expand commuter express service, the Buy America compliant D45 CRT LE will prove to be one of the safest, most comfortable, and flexible transportation solutions available.



### D45 CRT LE

Features a revolutionary patented low-entry (LE) vestibule with a seating area and ramp that significantly improves dwell times as well as the boarding and ride experience for passengers with mobility challenges.



### D45 CRT LE CHARGE™

Battery-electric platform that is supported by New Flyer's 50 years of low and zero-emission propulsion experience and NFI Infrastructure Solutions™, a service dedicated to providing safe, sustainable, and reliable charging and mobility solutions.

## Low + zero-emission.



### Zero-emission

The D45 CRT LE™ CHARGE battery-electric coach offers zero-emissions, while delivering high-capacity commuter coach transportation.



### Low-emission

The clean diesel D45 CRT LE™ coach complies with EPA low emission standards. On a per passenger basis, our clean-diesel coaches offer lower emissions than any current hybrid car.

## High tech safety systems.

- ✓ Patented Digital Wheel End Sensing (DWES) systems that help measure wheel end temperatures that monitor individual wheel ends for potential issues.
- ✓ Optional next-generation 360° Camera that provides a bird's-eye view around the entire coach to significantly aid vision while maneuvering at low speeds.
- ✓ Collision mitigation technology including stationary object detection and lane departure warnings.

# Mid-door entry & vestibule.

The mid-coach, ADA-compliant automated ramp is available in two lengths, both 30 inches wide, with a higher weight capacity than traditional lifts.

This allows the D45 CRT LE to accommodate a wider variety of mobility aids, including next-generation motorized wheelchairs and other devices.



1. Second door with automated ramp.
2. Lower-level vestibule area with capacity for up to 5 seats or two mobility devices.
3. Seats flip up to make space for mobility devices.
4. Optional Quantum automated wheelchair securement system shown.
5. Second step well.
6. 54-seat capacity with 49 elevated seats.
7. Two display monitors in the vestibule area.
8. Expansive windows in the vestibule seating area.

## Benefits.

Easy accessibility, rapid entry and exit via two doors decreasing dwell time.

Dignified boarding, improved wheelchair securement and a comfortable riding experience for passengers with mobility disabilities.

New ramp provides loading times comparable to low-floor transit buses with flip ramps.

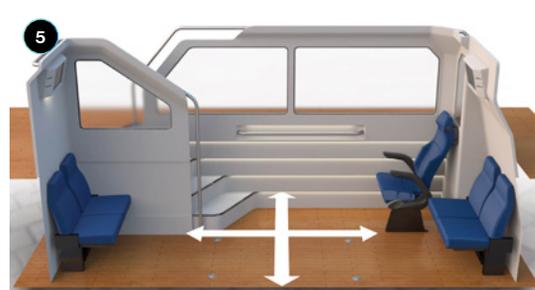


## Seating Configurations

Once inside, the spacious vestibule comfortably accommodates up to five seated passengers or one seated passenger and two passengers with mobility devices. Possible configurations are illustrated.

1. Five seats in the lower vestibule.
2. Single forward-facing position.
3. Rearward with Quantum.
4. Rearward and forward position.
5. Two forward positions.

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# Interior.

The D45 CRT LE blends eye-appealing design with passenger pleasing amenities required by commuters.



1. Standard LED indirect ceiling lighting.
2. Standard LED tube lights.
3. Integrated center aisle ramp improves ease of entry and exit.
4. Optional rear window.



Best-in-class parcel rack space.



Adjustable passenger modules with LED integrated seatbelt signs.



Optional handles on the backs of seats enhance safety and mobility.

## Exterior.

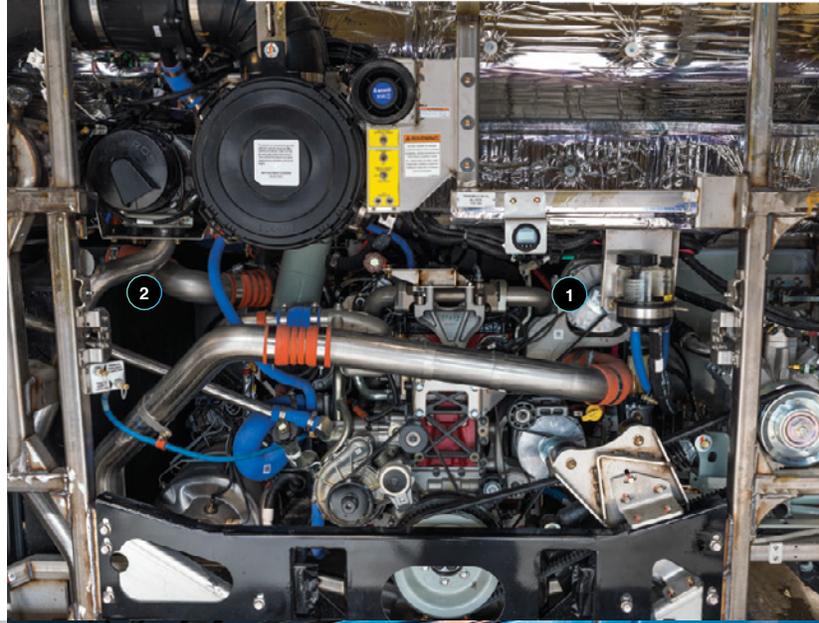
The D45 CRT LE blends modern design with the rugged, durable, heavy-duty operational qualities required by transit operators.



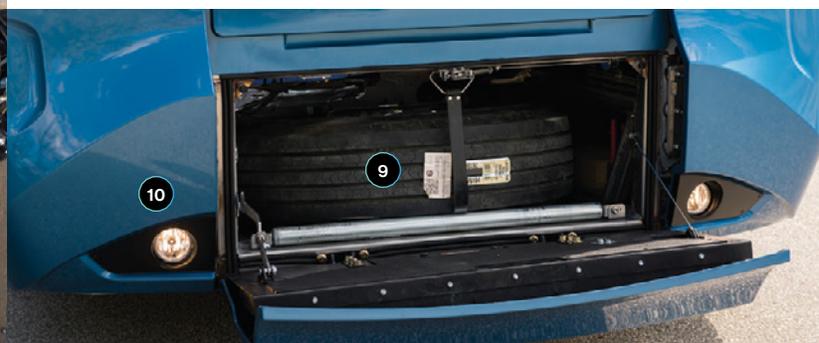
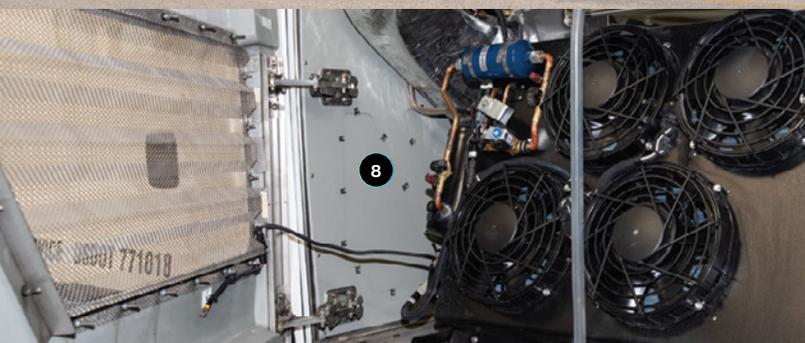
1. Large rear transom windows.
2. The optional LED rear docking light improves visibility.
3. Standard passive rear steering with Sachs shocks enhances MCI wide-ride performance with tight turning.
4. Digital wheel-end shutdown programming notifies the driver and initiates coach shutdown in the event of an over-temperature condition.
5. MDSS system improves operational reliability and includes standard kneeling and high/low rise features.
6. Optional 360° camera system.
7. Patent-pending low-entry vestibule with ample room for 2 passengers with mobility devices.
8. Optional drip rail lighting.
9. Laminated safety glass with dual-latch emergency release mechanism.
10. 32" clear width mid-coach door with ADA-compliant 6:1 sloped ramp rated to 1,000 lbs.
11. Provisions for front, side and rear destination signs.
12. Bendix ADB 22X brakes provide automotive-level stopping feel, common rotors to reduce parts and provide greater serviceability.
13. Wider front door with MCI patented spiral entryway.
14. Standard LED headlights and LED DRL/turn signal lights for reliability and high visual impact.
15. Optional Bendix Wingman Fusion system with adaptive cruise and collision mitigation technology.

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1. The rugged brushless alternators reduce maintenance.
2. Updated standard Amerex fire-suppression system provides a more reliable response.
3. Optional rear route sign.
4. Rear-rise, high-rise or low-rise suspension settings.
5. Baggage compartment doors with keyed or optional electric locks.
6. E-fan system for improved fuel efficiency and reliability.



7. Robust lower structure in both front and rear, with energy-absorbing bumpers.
8. The brushless motors on the HVAC evaporator and condenser motors significantly improve reliability and reduce maintenance with an expected 10-year life.
9. Spare-tire roller to improve ease of access and removal of the spare.
10. Optional fog lamps.



## Driver's area.

Updated cockpit with a redesigned, ergonomic dash featuring easier-to-read gauges on an integrated high-definition instrument panel that sits lower for better sight lines and puts intuitive controls within reach.



1. Notched dash for farebox installation.
2. Multifunction dash display.
3. Steering wheel with integrated controls for accessing diagnostic information via the dash display.
4. Large driver's toll window.
5. Choice of USSC or Recaro driver's seat.
6. Ergonomic driver's workspace.



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## Reliable design.

Our family of D-Series coaches, including the commuter coach, are known as workhorses in the public transit industry.



Our sturdy, full stainless steel frame resists the elements and provides dependable long-term structural integrity. Our innovative D45 CRT LE features increased stainless componentry and overall reduced parts count for simplicity.



Single-piece, thick-walled stainless steel tubing in critical areas such as our window posts, add strength, durability and excellent fit and finish.



Electrical systems are simplified, using less wiring and fewer modules. All compartments and connectors are tightly sealed for durability and environmental protection.

## Reliable service and support.

MCI service and support delivers a relationship-driven and responsive approach to customer care.



Comprehensive support that includes in-field expertise, technical call center and 24/7 roadside assistance.



Ongoing technical training from the industry's only Automotive Service Excellence (ASE) accredited MCI Academy technician training center.



Customizable programs to fit your financial needs through NFI Financial Solutions™.



On-the-go support with MCI Operator's App and MCI Companion App.



MCI Service Center - from routine maintenance and warranty to complex troubleshooting, you'll find all the help you need.



Parts support from NFI Parts™, the industry's largest parts supplier.

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## MCI D45 CRT LE specification highlights.

### Legend

S	Standard in basic coach
O	Optional addition in basic coach

	Base Spec
<b>Safety and Security</b>	
Amerex fire-suppression system and engine compartment fire detection	S
Digital Wheel End Sensing (DWES) to detect wheel end faults	S
FMVSS 210 load compliant seat track and mounting system with infinite adjustability	S
Bendix® ESP (Electronic Stability Program)	S
Bendix® Wingman Fusion System with Adaptive Cruise Control and Collision Mitigation Functionality	O
High-visibility yellow ergonomic handrails throughout the vehicle	S
Display monitors in the vestibule area	O
Integrated SmarTire™ tire-pressure monitoring system with always-on sensors	O
Frameless single pane passenger emergency egress windows with laminated safety glass and dual-latch	S
Frameless dual pane passenger emergency egress windows with tempered / laminated safety glass and dual-latch	O
Spare tire compartment roller	S
Brigade 360 degree camera system	O
Brigade 500 GB (4 exterior cameras) or 1 TB (4 interior & 4 exterior cameras) digital recording system	O
<b>Powertrain and Economy</b>	
Cummins X12 w/engine brake, 410 hp, 1,450 lb-ft torque	S
Allison Gen V transmission with prognostics capability	S
Fuel economy optimized rear axle ratios	S
"NFI Connect™" option for enhanced engine diagnostics	O
Relocated engine air intake system including standard pre-filter / water separator and enhanced engine compartment service lighting	S
2 x 250 Amp Delco (Borg Warner) 55 SI alternators	S
45,000 BTU ProHeat or 120,000 BTU Valeo (Spheros/Webasto) auxiliary heaters	O
<b>Exterior</b>	
Semi-monocoque low-corrosion stainless steel body	S
Fiberglass composite front and rear caps, exterior skin and baggage doors	S
Dual entry / egress locations - air operated bi-part entrance and mid-coach doors	S
Front entry pantograph (plug style) door in lieu of bi-part door	O
Ultra durable front and rear bumper systems	S
Patent-pending headlight bezel design for easier service access	S
Long-life, high-visibility LED high/low beam forward lighting	S
Drip rail overhead lighting	O
New acrylic rear tail lamp panels	S
Fog lamps with impact resistant polycarbonate lenses	O
Hub-piloted steel wheels, 22.5 x 9.0 inch	S
Alcoa aluminum wheels with Durabrite coating, 22.5 x 9.0 inc	O
Firestone® tires 315/80 R22.5, L-rated	S
Michelin® tires 315/80 R22.5, L-rated	O

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## MCI D45 CRT LE specification highlights.

### Legend

S	Standard in basic coach
O	Optional addition in basic coach

### Handling, Ride and Braking

	Base Spec
Independent Front Suspension system with labyrinthically sealed unitized wheel ends - 17,000 lb rating	S
23,000 lb drive axle and 16,500 lb tag axle with independent suspension	S
Bendix® all-wheel ADB 22X™ disc brakes	S
Tilt and telescoping steering wheel with integrated controls and ZF variable ratio steering	S
Wide-ride suspension system with Sachs shocks	S
Passive rear steering system provides amazingly tight 40' 11" turning radius	S
Extreme duty tag axle unload valves for MDSS / Bendix air system	S

### Passenger Interior, Appointments and Convenience

Patent-pending vestibule area with ample room for mobility challenged passengers and their companions, offering greatly reduced dwell times and greater independence	S
MCI-exclusive mid-coach door with vestibule area and integrated ramp conforming to the latest ADA 6:1 slope guidelines	S
Shorter vestibule ramp available for curbside loading applications	O
Best-in-class interior passenger space with comfortable seating for 54 passengers (53 passengers with 1 mobility device or 52 passengers with 2 mobility devices)	S
MCI-exclusive front spiral entrance stairway with ergonomic grab rails	S
USSC A-220 thin-back seat for improved passenger space, with separate headrest and integral 3-point seatbelts	S
Kiel 2050 or 1020 seating featuring modern styling and integral 3-point seatbelts	O
USSC GT seating with integrated headrest and FMVSS 210 compliant 3-point seatbelts	O
Quantum automatic restraint system	O
Rear window for improved passenger visibility and ambiance	O
Large rear transom windows	S
LED tube lights in ceiling	S
Enhanced LED interior lighting choices including stepwell nosing lights and window lights	O
Industry leading capacity parcel racks featuring more robust components and improved aesthetics	S
Enclosed parcel racks	O
Customizable fabric, flooring and interior trim options	S
Larger, re-configured lavatory with vandal resistant features	O

### Driver's Cockpit, Instrumentation and Controls

New, multifunction dash display with greatly enhanced functionality, improved driver ergonomics, and "plain English" diagnostic messages	S
Multi-function steering wheel	S
Notched dash for easy installation of fare box	S
USSC or Recaro 3-point driver seats with seatbelt alarm	S
Enhanced pre-trip walk-around test check for easier inspections	S
Driver's toe kick area, streamlined LH console with larger cup holder and 12V plus USB charging ports	S
Power windshield blinds without guide rods that recess into the front upper cap when not in use	S
Unbreakable driver's defrost vents	S

# MCI

## MCI D45 CRT LE specification highlights.

### Legend

S	Standard in basic coach
O	Optional addition in basic coach

	Base Spec
<b>Electronics Systems</b>	
Latest generation Parker/Vansco fully multiplexed solid-state electrical system featuring optimized military-grade components	S
110V outlets w/USB at every seat, including 4000 Watt inverter and integral battery charger	O
Improved Wi-Fi system options	O
Saucon asset tracking system with geo-fencing and OBR (on-board recording) capability	O
Generic 12V power supply provided for Wi-Fi installation, as well as powering any operator-added accessory	S
Installation provisions for customer specific electronic components (fare boxes, cameras, destination signs, passenger counters, etc.)	S
<b>Coach Operation and Performance</b>	
Brushless motors on HVAC evaporator and condenser for long life and low maintenance	S
Radiator and charge air cooler with state-of-the-art e-coated frame, tubes and fins, designed and tested for highly corrosive environments	S
Stainless steel, corrosion resistant coolant and charge air cooler tubes	S
Rotary main battery disconnect switch	S
MCI A/C compressor with improved tensioning system and idler	S
Service door hinges with greaseable fittings	S
Corrosion control enhancements including improved SST rear J-box, more SST bracketry and improved processes for applying HydroArmor in the factory (air tanks, under carriage coverage)	S
Improved docking and cornering light logic for enhanced low-speed visibility and passenger entry / exit	S
Flat composite baggage bay flooring for improved corrosion resistance and driver ease-of-use	S
<b>Support, Services and Warranty</b>	
Standard 24-month limited warranty including 12-year structural warranty	S
Extended OEM warranties on engine and transmission	O

### General Weights and Measurement

	Base Spec		Base Spec	
<b>Overall Length</b> (bumper to bumper)	45' 10"	(13.80 m)	<b>Turning Radius</b>	41' 9" 12.42 m
<b>Wheelbase</b>	315.00"	(8.00 m)	<b>Gross Vehicle Weight</b>	54,000 lb 24,494 kg
<b>Front Overhang</b>	78.25"	(1.99 m)	<b>Total Luggage Compartment Volume</b>	134 cu ft w/o parcel rack 3.82 cu m w/o parcel rack
<b>Rear Overhang</b>	150.25"	(3.82 m)		222 cu ft with parcel rack 6.23 cu m with parcel rack
<b>Overall Width</b>	102.00"	(2.59 m)	<b>Fuel Tank Capacity</b> (usable)	191 gal 692.73 L
<b>Overall Height</b>	138.00"	(3.51 m)	<b>DEF Tank Capacity</b>	15 gal 6.78 L
<b>Interior Height</b>	78.25"	(1.99 m)	<b>Payload Capacity</b>	16,000 lbs 7,257 kg
<b>Front Track</b>	84.84"	(2.15 m)		
<b>Rear Track</b> (drive)	75.38"	1.91 m		
<b>Rear Track</b> (trailing)	84.84"	2.15 m		

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## D45 CRT LE

[MCIcoach.com/d-series](http://MCIcoach.com/d-series)

