



# MCI® ISTV

## Inmate Security Transportation Vehicle



**The next generation Inmate Security Transportation Vehicle is built on MCI's modernized D Series platform and offers enhanced operator and security features, improved operation, and increased efficiencies.**

MCI is the only manufacturer in North America to provide tailored, durable, turn-key heavy-duty Inmate Security Transportation Vehicles, and has been doing so for more than 30 years.



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## Next generation benefits.

The next generation ISTV is an evolution of the previous model and retains the rugged design and unique features developed through MCI's long-standing collaboration with federal, state and county law enforcement agencies.

## More efficient.



A 5% larger fuel tank enables greater operational range.



All interior and exterior lighting utilizes energy-efficient and environmentally friendly LED technology.

## More durable.



A sturdy, stainless-steel frame resists the elements and provides dependable long-term structural integrity.



A single-piece, thick-walled, stainless-steel tubing is used in critical areas, such as the window posts, adding strength, durability and an excellent fit and finish.



A proven, durable, track-tested frame provides increased reliability and long-term durability.





## Easier to operate.

22%

**Tighter turning radius makes it easier to maneuver the coach through tight areas such as loading areas, sally ports and prison yards.**

- ✓ In-motion high-rise and low-rise capabilities significantly improves approach and departure angles.
- ✓ The driver's area is ergonomically designed featuring easier-to-read gauges, intuitive controls within reach, and improved sight lines.
- ✓ A more comprehensive optional safety system provides adaptive cruise control, collision mitigation with stationary object detection, lane departure warning, and traffic sign recognition functionality.

## Modern security features.

- ✓ Center-mounted ceiling lights provide additional lighting when cell partitions are utilized.
- ✓ Dedicated emergency lighting utilizes high-output LED technology that is brighter, more efficient, is programmable, and in tune with modern law enforcement lighting.
- ✓ Enhanced exterior overhead lighting around the perimeter of the coach provides additional security for loading and unloading of inmates.
- ✓ Optional 360-degree birds-eye-view camera system monitors and documents inmate activity around the coach and provides added protection to officers and transport personnel.



## More comfortable and spacious for operators.



Wider entryway and a curved stepwell with a lower first entry step provides a greater opening width for easier and safer loading and unloading of inmates.






Rear officer seating includes an air ride seat for added comfort.



## Easier to service and maintain.

**100%** Composite exterior body panels are more durable and are easier to repair.

- ✓ A single aluminum roof skin provides better water resistance.
- ✓ Unitized wheel end bearings increase reliability, reduces maintenance, and increases life span.
- ✓ Three-piece front and rear energy-absorbing urethane bumpers are paintable for a more streamlined look and are easier to replace if damaged.
- ✓ Smooth interior flooring transition from the cabin floor to the heat ducts improves cleanability.
- ✓ Internal components are more accessible for service routines and maintenance:
  -  The RAD/CAC cooling package is located at ground level with a swing-out door for easier engine and aftertreatment system access.
  -  Provisions for antennas enables easy installation post-delivery.
  -  Removable interior access panels make it easier to add additional harnesses.



## Interior design.



Seating for up to 70 inmates.



Lavatory option.



A variety of proven containment barriers and cells.

- ✓ Flexible inmate seating options.
- ✓ Movable barrier system.
- ✓ Officer workspaces (front curbside, front roadside, and rear).
- ✓ Heavy-duty, easy-to-clean surfaces including stainless steel walls, vinyl flooring, and laminate surfaces.



## Operation.

- ✓ Optional GPS tracking system.
- ✓ Air-ride seat with lumbar support, fold-up armrests and greater recline setting.
- ✓ Tilt and telescopic steering wheel for added driver comfort.
- ✓ Large exterior rearview mirrors with remote controls and heat features.
- ✓ Cell phone plug-in power (12V USB and optional 110V outlets).
- ✓ Kneeling system to lower first step by over three inches for easier entry by inmates with leg chains.
- ✓ Improved field of vision with significantly reduced blind spots.
- ✓ Power-recessed windshield blinds
- ✓ Optional asset tracking systems available, including NFI Connect™.

## Lighting.

- ✓ Nighttime docking lights on both sides of the vehicle.
- ✓ Separate driver-controlled exterior light above entrance door for nighttime loading of inmates.

## Safety + security.

- ✓ Optional bullet-resistant materials.
- ✓ Optional onboard surveillance system.
- ✓ Five-inch-high, ½" thick shatter-resistant windows with interior or exterior window bars, optional full-height windows with exterior window bars.
- ✓ Standard fire suppression and tire pressure monitoring systems.
- ✓ Optional Code 3 emergency flashers, siren and external public address system.
- ✓ Standard rear guard area exterior access door.

## Maintenance.

- ✓ Large engine and radiator access doors for unparalleled mechanic access.
- ✓ Standard E-Fan system (w/swing-out RAD/CAC).
- ✓ Multiplex electrical system for easy diagnostics.



## Reliable service and support.



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



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

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



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



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



MCI Service Centers offering routine maintenance, warranty, and complex troubleshooting capabilities.

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## MCI D4020 ISTV

### technical specifications.

#### Dimensions

Overall Length (bumper to bumper)	40' 1"	12.22 m
Wheelbase	246.26"	6.25 m
Front Overhang	79.12"	2 m
Rear Overhang	106.78"	2.71 m
Overall Width	102.00"	2.59 m
Overall Height	140.00"	3.56 m
Interior Height	76.74"	1.95 m
Front Track	85.17"	2.16 m
Rear Track (drive)	75.35"	1.91 m
Rear Track (trailing)	85.17"	2.16 m
Turning Radius	35'	10.66 m
Gross Vehicle Weight Rating	54,000 lb	24,493 kg

#### Safety + Performance

##### Standard Equipment

- ✓ Electronic Stability Control (ESC)
- ✓ Automatic Traction Control (ATC)
- ✓ Disc Brakes with 6 channel Antilock Braking System (ABS)
- ✓ Three-point guard and driver seat belts
- ✓ Docking lights
- ✓ Amerex fire detection and suppression SmarTire® integrated tire pressure monitoring system with always-on sensors
- ✓ Tilt and telescoping steering wheel
- ✓ MCI® A/C Compressor
- ✓ Cruise control MCI exclusive spiral entrance stairway with aluminum step nosing & stainless-steel grab rails
- ✓ Davco Fuel Pro® filter with sight glass
- ✓ Passive steerable tag axle with unload feature
- ✓ Electrically locking baggage compartments
- ✓ MP water circulating pump
- ✓ Exterior overhead LED lighting

##### Optional Equipment

- ✓ Eberspaecher axillary heater - 12 kW
- ✓ Bendix Fusion collision mitigation system
- ✓ Sliding battery tray
- ✓ Code 3 lights, siren and external PA
- ✓ Bullet resistant material
- ✓ GPS tracking system
- ✓ Safety vision video surveillance systems
- ✓ 360° camera system
- ✓ Curb lights

#### Standard Equipment

Engine	Cummins X12 w/engine brake, 410 hp, 1,450 lb-ft torque
Transmission	Allison B500 Gen VI
Front Axle	ZF 17,000 lb (7,711 kg) with unitized wheel end bearings
Drive Axle	ZF 23,000 lb (10,433 kg) with unitized wheel end bearings
Tag Axle	ZF 16,500 lb (7,484 kg) with unitized wheel end bearings
Seating	Up to 70 inmates
Wheels	Hub-mounted steel, 22.5 x 9.0
Tires	BFGoodrich ST230 315/80R22.5
Alternator	Borg Warner 55SI Dual 250A 24V
Brakes	Bendix ADB22X
Parking Brake	Spring brake on drive axle
Fuel System	191 US gal. usable volume (201 US gal. gross volume) plastic tank (crosslink-polymer) tank. 15 US gal. DEF tank capacity.
Body Type	Stainless-steel frame with high-strength low-alloy steel in suspension areas for higher strength and fatigue life
Exterior Skin	One-piece bonded aluminum roof skin and composite exterior body panels
Windows	5" tall, 1/2" thick shatter-resistant acrylic
Interior	Embossed stainless steel sidewalls and ceiling
Baggage Doors	Underfloor pantograph-type composite baggage doors with central electrical locking system
Entrance Door	Electric-operated plug-style door
Electrical System	Parker Vansco fully multiplexed electrical system
Instrument Panel	Parker Vansco multi-function display including speedometer, oil pressure, water temperature, fuel level, voltmeter, air pressure and DEF (diesel exhaust fluid) level
Warning Lights	Real-time diagnostics of all operating systems
Cooling System	Below-floor parallel radiator/charge air cooler module which quickly swings out for unrestricted service access
Fan System	Electrically driven fan array to maximize fuel efficiency and reliability
Steering System	Variable ratio power steering system
Suspension	Electrically controlled air suspension with high/low ride and kneeling functions
Batteries	Two 8D (1350 c.c.a. each)
Voltage	12 volt and 24 volt
Exterior Lights	12 volt LED, plus 90 mm LED headlights

#### Other Features

##### Standard Equipment

- ✓ Energy absorbing front and rear bumpers, 2" rub rails
- ✓ 12V, 110V & USB power for the officers
- ✓ Composite exterior body panels
- ✓ Plastic fuel tank (crosslink-polymer)
- ✓ Boom-type microphone
- ✓ Embossed stainless-steel interior

##### Optional Equipment

- ✓ Lavatory
- ✓ Alcoa Durabrite® aluminum wheels
- ✓ Posi-lock fuel fill system
- ✓ Rear officer position with air ride seat
- ✓ Weapons locker
- ✓ Officer workspace
- ✓ Custom-designed inmate containment barriers and cells
- ✓ Window bars (interior or exterior mounting), 1/2" thick full-sized windows with shatter-resistant acrylic

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