## CHARLESTON

2009 Model Year

**XCR-Series Tag Axle Motorhome Chassis**

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>BENEFIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Year, 50,000-Mile Warranty</td>
<td>Best in The Industry</td>
</tr>
<tr>
<td>50,000 PSI Frame Rail</td>
<td>Solid Foundation</td>
</tr>
<tr>
<td>55-Degree Wheel Cut</td>
<td>Excellent Maneuverability</td>
</tr>
<tr>
<td>400 Dealers</td>
<td>Service Where You Need It</td>
</tr>
</tbody>
</table>

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**FREIGHTLINER**

Custom Chassis

Driven By You
## CHARLESTON Custom Chassis Features

- 5-year, 100,000-mile coolant ***
- TranSynd transmission fluid
- Lowered engine
- 18.7 CFM air compressor
- Fuel/water separator
- Farr Eco air cleaner
- Air filter restriction indicator
- 1000-watt block heater
- Engine braking: compression brake 3.6
- R-134A air conditioning compressor with condenser
- Electronic cruise control with high idle
- TRW infinitely adjustable tilt/telescoping steering column
- Leather-wrapped VIP Smart Wheel, 18 in (457mm)
- Suspended and adjustable pedals
- Push button shift selector
- Driver message center with integral LCD display
- Neway air ride suspension/Sachs tuned shock absorbers
- Michelin XZE 275/80R 22.5 LRG
- Polished aluminum wheels with trim kit
- Heater hose assembly to front of chassis
- Haldex PURest heated air dryer
- Automatic, heated moisture ejector
- Air suspension deflation system
- Daytime running lights
- Tow power connector

* Towing capacity limited by towing components and their attachment to the frame. See operator's manual for braking requirements on towed vehicles

***Some maintenance required

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### XCR-SERIES TAG AXLE

#### Engine
- Cummins ISL turbocharged, aftercooled
- 8.9 L. electronic diesel
- 425 HP @ 2,200 rpm
- 1200 lb•ft (1627 N•m) @ 1,300 rpm

#### Transmission
- Allison 3000 MH six-speed automatic with lock up

<table>
<thead>
<tr>
<th>Gear Ratios</th>
<th>First</th>
<th>Second</th>
<th>Third</th>
<th>Fourth</th>
<th>Fifth</th>
<th>Sixth</th>
<th>Rev.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.49:1</td>
<td>1.86:1</td>
<td>1.41:1</td>
<td>1.00:1</td>
<td>.75:1</td>
<td>.65:1</td>
<td>5.03:1</td>
</tr>
</tbody>
</table>

#### Vehicle Weight Ratings

<table>
<thead>
<tr>
<th></th>
<th>Front GAWR</th>
<th>Rear GAWR</th>
<th>Tag GAWR</th>
<th>GVWR</th>
<th>GCWR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>12,350 lb (5607 kg)</td>
<td>20,000 lb (9080 kg)</td>
<td>10,000 lb (4540 kg)</td>
<td>42,350 lb (19,227 kg)</td>
<td>52,350 lb (23,767 kg)</td>
</tr>
</tbody>
</table>

#### Wheelbase
- 206 in (5756 mm)

#### Front Axle
- I-Beam, wide track
- Capacity: 12,400 lb (5630 kg)
- Track Width: 82.89 in (2105 mm)

#### Rear Axle
- Drive Ratio: 4.63:1
- Capacity: 20,000 lb (9080 kg)
- Track Width: 72.1 in (1830 mm)

#### Tag Axle
- Capacity: 10,000 lb (4540 kg)
- Track Width: 85 in (2159 mm)

#### Brakes
- Full air brakes with auto slack adjusters and ABS
- Front Service: 15 x 4 in drum-style s-cam
- Rear Service: 16.5 x 7 in drum-style s-cam
- Parking: 16.5 x 7 in drum-style s-cam Spring-applied air release

#### Cooling System
- Radiator Core: 2 rows, 15 FPI, 1270 in 2 (8194 cm²) area
- Radiator Type: Cross-flow, rear-mounted
- Charge Air Cooler: Cross-flow, rear-mounted
- Transmission Oil Cooler: Remote-mounted water to oil
- Fan: Belt-driven with viscous fan clutch

#### Electrical System
- Alternator: Delco Remy 160 amp
- Starting: Denso 12 volt
- Battery: Two 950 CCA @ 0°F (-18°C), maintenance-free

#### Frame
- Raised frame rail with lowered rear section
- Max Resist. Bending Moment: 406,200 lb•in (45 900 N•m)
- Max Frame Section: 9.00 x 2.75 x .25 in (229 x 70 x 6.4 mm)

#### Fuel Tank
- 100gal (379 L) dual fill

#### Steering System
- TRW TPH 60, integral hydraulic power gear
- Rating: 12,400 lb (5630 kg)
- Ratio: 20.4:1
- Pump: Gear-driven
- Wheel Cut: 55°

#### Suspension
- Neway AS 120 air suspension
- Neway AD 123 air suspension
- Neway NL 110 air suspension
- Tuned shocks, Sachs

#### Tires
- Michelin XZE: 275/80R22.5 LRG

#### Wheels
- 4 aluminum 2 steel 22.5 x 8.25 in (572 x 210mm) with 10 bolt lugs 11.25 in (285.75 mm) diameter bolt center

#### Instrumentation
- Gauges: speedometer • tachometer • engine oil pressure • water temp • voltmeter • fuel level • dual air pressure • turbo boost