



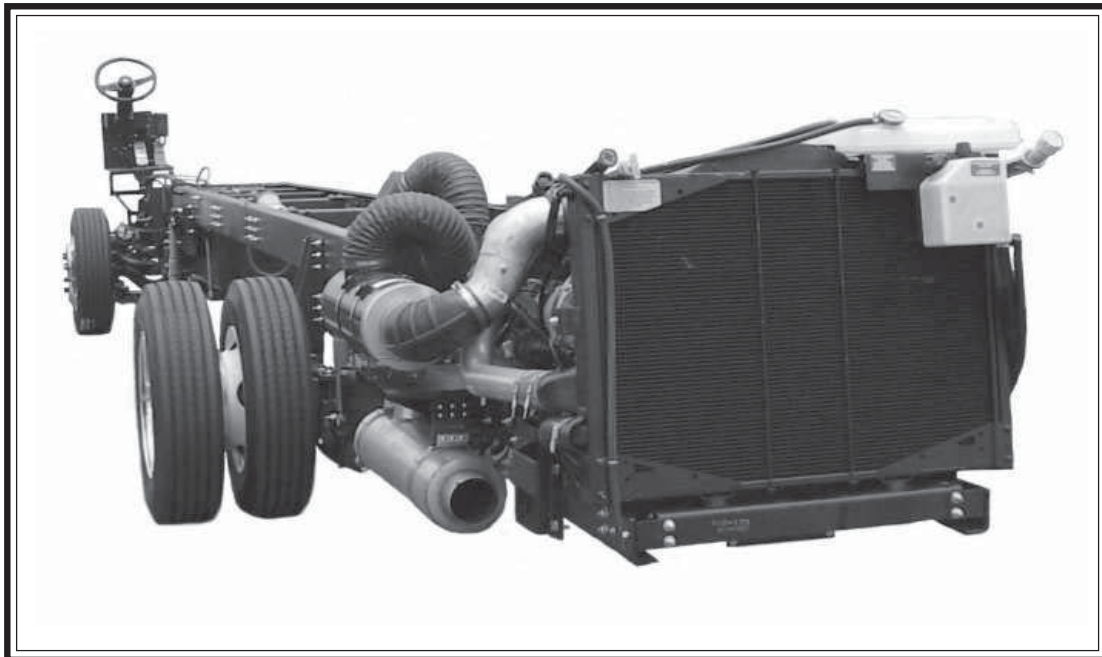
XC- Series Motorhome Chassis

FEATURE

BENEFIT

- | | |
|--------------------------------------|---------------------------|
| ■ 3 Year, 50,000 Mile Warranty | Best in The Industry |
| ■ 9" 50,000 PSI Frame Rail | Solid Foundation |
| ■ 50 Degree Wheel Cut | Excellent Maneuverability |
| ■ Over 350 Dealers | Service Where You Need It |

2004 MODEL YEAR



Northern Star

by Newmar

**Northern Star
by Newmar
Custom Chassis
Features**

- 5 Year, 100,000 mile coolant ***
- 13.2 CFM air compressor
- Fuel/water separator
- Farr Eco-air cleaner
- Air filter restriction indicator
- 1000 watt in-block engine heater
- Exhaust brake
- R-134A air conditioning compressor
- Electronic cruise control with high idle
- VIP steering wheel 18 in (457mm)
- Douglas tilt/telescoping steering column
- Neway air ride suspension/ Sachs tuned shock absorbers
- Heater hose assembly to front of chassis
- Haldex Purest Air Plus heated air dryer
- Automatic, heated moisture ejectors
- Michelin XZA1 275/70R 22.5 LRH
- Raised frame rail
- Tow power connector

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

** Tire size may affect wheel cut.

*** Some maintenance required

For reference only. For certified dimensions, consult Freightliner Custom Chassis Corporation. Specifications are as of 5/03/03, and are subject to change without notice. Ratings are general guidelines. Illustrations may include optional equipment and accessories but may not include all standard equipment. To order more sales literature call 1-800-585-8831.



XC-SERIES

Engine Peak Hp Peak Torque	Caterpillar C7 turbocharged, aftercooled 7.2 L electronic diesel 350 Hp @ 2,400 rpm 860 lb•ft (1166 N•m) @ 1,440 rpm
Transmission Gear Ratios:	Allison 3000 MH six-speed automatic with lock up First Second Third Fourth Fifth Sixth Rev. 3.49:1 1.86:1 1.41:1 1.00:1 .75:1 .65:1 5.03:1
Vehicle Weight Ratings Front GAWR Rear GAWR GVWR GCWR *	12,000 lb (5448 kg) 19,000 lb (8626 kg) 31,000 lb (14 074 kg) 41,000 lb (18 614 kg)
Wheelbase	252 in (6401 mm)
Front Axle Capacity Track Width	I-Beam, wide track 12,000 lb (5448 kg) 81.9 in (1948 mm)
Rear Axle Drive Ratio Capacity Track Width	4.78:1 19,000 lb (8626 kg) 69.3 in (1760 mm)
Brakes Front and Rear Service Parking	Full air brakes with auto slack adjusters and ABS 15 x 4 in (front) and 16.5 x 7 in (rear) drum-style S-cam Spring applied air release 16.5 x 7 in drum-style (rear axle) Push-pull knob controlled
Cooling System Radiator Core Radiator Type Charge Air Cooler Transmission Oil Cooler Fan	2 rows, 15 FPI, 1050 in ² (6775 cm ²) area Cross-flow, rear mounted Cross-flow Remote mounted water-to-oil Belt driven
Electrical System Alternator Starting Battery	Leece-Neville 160 amp Delco 28MT, 12 volt Two 950 CCA @ 0°F (-18°C); maintenance-free
Frame Max Resist. Bending Moment Max Frame Section	Raised Frame Rail Construction 291,000 lb•in (32 892 N•m) 9.00 x 2.75 x .25 in (229 x 70 x 4.8 mm)
Fuel Tank	100 gal (379 L), Dual fuel fill
Steering System Rating Ratio Pump Wheel Cut **	TRW TAS 65, integral hydraulic power gear 12,000 lb (5448 kg) 20.4:1 Gear-driven 50°
Suspension Shock Absorber Heavy-Duty Stabilizer Bar Diam	Neway air suspension (front and rear) Tuned Sachs shocks 1.50 in (38 mm) (front)
Tires	Michelin radial XZA1 275/70R 22.5 LRH
Wheels	Heavy duty steel 22.5 x 8.25 in (572 x 210 mm) with 10 bolt lugs 11.25 in (285.75 mm) diameter bolt center
Instrumentation	Gauges: Speedometer with odometer • Tachometer • Engine Oil Pressure • Water Temperature • Voltmeter • Fuel Level • Dual Air Pressure