



## Spirit of Liberty

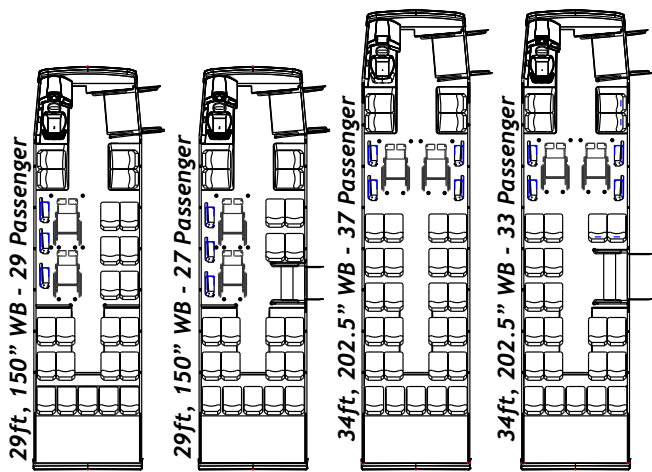
Equal Access for Everyone.

Introducing the **ARBOC** Spirit of Liberty. Finally, a rear-engine medium duty low-floor bus with unmatched floorplan flexibility. The Spirit of Liberty can accommodate up to 37 passengers with an industry leading 6 wheelchair positions. A truly accessible bus for ALL passengers with no steps throughout the bus! ARBOC's patented technology, offers an angled entranceway while exceeding ADA guidelines with a 1:6 ramp slope for passengers in need of extra assistance and wheelchair accessibility. Backed by a Cummins ISB 6.7L diesel engine and Allison transmission, serviceability and reliability make the **Spirit of Liberty** the right choice as your transportation solution!

## Chassis Specifications

- Chassis - Freightliner Custom Chassis-XBA
- 2013 OBD/2017 EPA/GHG14 Compliant
- Engine - Cummins ISB 6.7L Diesel
- Engine Horse Power - 240 @ 2600 RPM
- Torque - 560 ft. lbs. @ 2600 RPM
- Gross Vehicle Weight (GVWR) - 25,990# (11,788kg)
- Gross Axle Weight (Front) - 10,000# (4,536kg)
- Gross Axle Weight (Rear) - 17,500# (7,938kg)
- Estimated Curb Weight - 18,600# (8,437kg)
- Axle Ratio - 5.13:1
- Transmission - Allison B220 Heavy Duty 6-Speed Automatic
- Transmission Shifter - Electronic Push Button w/Park Pawl
- Transmission Cooler
- TRW THP-60 Power Steering Gear
- Air Park Brake - Transmission Mount Drum
- Front Kneeling Air-Spring Suspension w/Electronic Height Control
- Cummins Engine Driven Air Compressor (318 CCI)
- Meritor-Wabco Twin Air-Dryer w/Heater
- Air Pressure Gauge & LED Indicator Light
- Wheels 19.5" x 6.5", 8 Lug
- Tires - 245/70 R 19.5
- Front Hydraulic Brakes/Disc w/Anti-Lock - Bosch 66mm
- Rear Hydraulic Brakes/Disc w/Anti-Lock - Bosch 73mm
- Fuel Tank- 70 Gal (265 Liters) - Mid-Ship Between the Frame Rails
- C/S & R/S Fuel Fills STD
- Radiator Capacity - 11 Gallons (41.63 Liters)
- Radiator Fan Speed Control Type - Electric Clutch
- Engine Thermostat Temp Setting - 190 Degrees
- Overheat Alarm Temp Setting - 225 Degrees
- In-Line Circulation Pump
- Engine Block Heater
- Oil Filter - Full Flow/Disposable Type
- Air Cleaner - Heavy Duty Canister Type
- Front and Rear Mud Flaps
- Steel Front and Rear Bumper- painted Black
- Exhaust Location - Curbside Roof
- Daytime Running Lights
- Horn / Dual Note Tone
- Cruise Control
- Rear Tow Hooks

## Floor Plans



## Base Models

- SOL 29 150" WB / 31'-2" Overall Length
- SOL 34 202.5" WB / 35'-6" Overall Length

## Construction

- All Tubular Steel Cage Construction w/E-Coat for Anti-Corrosion
- Fully Laminated, Bolt & Bonded Construction
- 5/8" Wood Floor
- Body Width: 100" (2.54M) - or 121.5" (3.08M) w/ext. mirrors
- Exterior Height: 120" (3.04M) - does not include roof hatch or AC
- Interior Height (Front) - 85"/2.16 M
- Interior Height (Rear) - 79"/2.00 M
- Interior Width - 97"/2.46 M
- Entrance Step Height @ Ride Height - 14.5"/317.5 MM
- Entrance Step Height when kneeling - 10.5"/254 MM
- Seating Capacity: Up to 37 Passengers (up to 6 Wheelchairs)
- Altoona Tested- 7 Years/200,000 Miles
- Meets all applicable FMVSS Regulations

## Electrical

- 12-Volt MultiPlex Electrical System
- Battery/Group 31 - (2) Heavy Duty 1520 CCA Total
- Alternator - 270-AMP
- Fast Idle
- Ramp Activation System (Includes: Exterior Ramp Toggle Switch)
- "ONE TOUCH" Kneel Switch
- Interior Passenger Lights "ON" with door
- Master Battery Disconnect Switch
- Battery Box (curb-side rear)
- Power Port 12-Volt

## Exterior Body / Lights

- Black Rubber Rear Wheel Well Flares
- One Piece Exterior FRP Wall/Skirt
- All Exterior Lights-LED (Incl. Standard Rear Center Mounted Brake Light)

## Interior

- Driver's Seat- USSC G2E (right hand armrest)
- Driver's HVAC
- Driver's Side Sun Visor
- Left Hand Stanchion - Stainless Steel
- Right Hand Stanchion - Stainless Steel
- Entry Assist Handles - Stainless Steel
- One Piece FRP Interior Walls/Ceiling
- Door Header Access Panel

## Mirrors / Safety

- Interior Convex Mirror
- Remote Exterior Mirrors
- White Standee Line w/Sign
- Egress Window Lights
- Alarm Backup

## Windows / Doors

- Extra Egress Window Front Driver Side
- Solid Framed Windows (Optional T-slider or bonded frameless)
- Electric Outward 35" Wide Clear Opening Entrance with Handles