



# Barrow County School System

Boldly Committed to Student Success

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## Barrow County Schools Bus Specification

### 48 PASSENGER TYPE “C” BUS WITH FLAT FLOOR AND WHEEL CHAIR LIFT

Number of Chassis: Up to 2

#### **CHASSIS SPECIFICATIONS:**

1. **Engine:**
  - a. Inline six cylinder diesel engine with minimum 220 HP.  
Engine must be 2018 EPA emissions compliant and certified
  - b. Training on engine for (4) BCS mechanics to be given by OEM Representative at customer facility within 3 months of delivery
  
2. **Frame:**
  - a. Minimum 187” wheelbase to allow for minimum 27.5” seat spacing on each side of bus (seat plan must accompany bid)
  - b. 10” rear bumper after forming with bracing at corners

3. **Spring & Axle:**
  - a. Front axle: 12,000 lbs. with four year warranty to include king pins and bushings, unlimited mileage (no exceptions)
  - b. Front springs: 10,000 lbs., 2 leaf parabolic
  - c. Rear axle: 21,000 lbs. with four year warranty, unlimited mileage (no exceptions)
  - d. Rear spring suspension: 21,000 lbs.
  - e. Oil lubed front hubs
  
4. **Fuel Tank:**
  - a. 60 gallon capacity, right side fill
  - b. Tank mounted between frame rails behind rear axle
  - c. Fuel/water separator with heater and primer pump chassis mounted
  
5. **Transmission:**
  - a. Allison 2500 PTS Series automatic transmission
  - b. Transynd transmission fluid
  - c. Transmission temperature gauge
  
6. **Brakes:**
  - a. Bendix air brake system with ABS
  - b. Bendix AD-IP air dryer with heater
  - c. Parking brake interlock system
  - d. 16.5 x 5 front brakes minimum
  - e. 16.5 x 7 rear brakes minimum
  
7. **Engine Noise Reduction Package**
  
8. **Alternator:**
  - a. 240 amp alternator minimum
  
9. **Headlights:**
  - a. Daytime running lights wire to illuminate when ignition is on
  - b. Must operate in lights on condition at all times - no driver input

10. **Tires and Rims:**

Tires and rims of proper size and load rating shall be commensurate with chassis manufacturer's GVWR. All tires on a vehicle shall be of same size, and the load range of the tires shall meet or exceed the GVWR, as required by FMVSS 120. Tire rims must be black, as received from the wheel manufacturer. Tires must be tubeless and steel radial design from a major manufacturer. Example: Goodyear, Michelin, Continental.

- a. 255/70R 22.5 - must be balanced
- b. Hub piloted 22.5 x 8.25 disc wheel
- c. Spare tire and rim

11. **Batteries:**

- a. (3) Group 31 12 volt batteries with minimum 2100 CCA.
- b. Master battery disconnect switch mounted in locking battery compartment
- c. Ammeter

12. **Separate Customer Access Fuse Block:**

- a. To be used for customer added accessories (no exceptions)

13. **Keys:**

- a. Fleet ignitions all keyed alike
- b. Fuel tank, front entrance and battery compartment doors all keyed alike

14. **Steering Column:**

- a. Tilt/Telescoping steering

15. **Tow Hooks:**

- a. Front hooks
- b. Rear hooks

16. **Chassis and body to meet current State of Georgia and Federal School Bus Specifications**

17. **Manuals:**

- a. One service manual
- b. One parts manual
- c. One electrical schematics manual
- d. CD-ROM version acceptable for all manuals

18. **Diagnostics:**
- a. Provide a new laptop computer with cables including a complete set of OEM specific diagnostic software with for 1) engine, 2) transmission and 3) ABS brakes, with license for 1 year.

## **BODY SPECIFICATIONS:**

1. **Windows:**
- a. All windows tinted
  - b. 28% tinted – side windows with 70%-green tinted front & rear vision glass
  - c. Drivers window to be two-piece sliding window-sash type
  - d. Windshield wipers to be electric, dual speed and intermittent
2. **Stop Arm:**
- a. Air operated diaphragm stop arm with wind guard, diamond grade decal and LED cluster lights
  - b. Driver alert sign on rear door by Transpec
3. **Mirror System:**
- a. Heated and remote side-view mirrors
  - b. Heated cross view mirrors & bell mounts per state specification
4. **Heater System:**
- a. Minimum 90,000 BTU front heater/defroster system
  - b. Minimum 50,000 BTU stepwell heater
  - c. Goodyear Hi-Miler heater hoses with constant torque clamps
  - d. Heater and radiator valves to be ball type
  - e. 88,000 BTU rear heater minimum with booster pump
5. **Driver Seat:**
- a. Type two lap/shoulder harness with tether strap adjustable seat belt, orange or lime green in color
  - b. High back version with cloth upholstery and seat cushion tilt
  - c. National or Bostrum air ride seat

6. **Crossing Gate:**
  - a. Air operated diaphragm yellow polycarbonate crossing arm
  
7. **Service Door:**
  - a. Air service door with emergency opening capabilities
  - b. Vandal key locked entrance door
  - c. Air cylinder and complete door mechanism to be located above door with access compartment
  
8. **Warning Lights:**
  - a. Eight way warning lights - Georgia Specification
  
9. **Emergency Exits:**
  - a. Rear door lock with ignition circuit interrupter
  
10. **Interior Design:**
  - a. Minimum interior headroom of 77" inches with a 12" inch upper sash openings
  - b. Interior color-blue seat covers with black floors
  - c. Acoustic noise reduction headliner package, perforated front to rear, with polyester insulation
  - d. Marine plywood flooring for noise reduction
  - e. Steps covered with ribbed black rubber
  - f. Driver's storage compartment located over driver's left side window
  - g. Noise kill switch installed on instrument panel
  - h. All seats to be seat belt ready (no belts) with minimum 27.5" seat spacing (seat diagram must be submitted with bid)
  - i. (8) flush mounted speakers located in ceiling
  - j. P/A system for addressing passengers
  - k. Emergency equipment compartment located above front windshield
  - l. Dual handrails in stepwell
  - m. Pre-wire for a 2-way radio and mounting brackets
  
11. **Roof:**
  - a. Roof will be painted white, however, the front and rear roof caps must remain yellow and the white roof may not extend beyond the drip rail on the side

**12. Extra Dome Lights:**

- a. Driver's dome light with individual switch
- b. Dome light at rear door with separate activation switch
- c. 12 volt accessory outlet

**13. Body Construction:**

- a. Exterior side panels: 20 gauge fluted
- b. Exterior side rub rails: 16 gauge, 4 each full length
- c. Floor panels: 14 gauge
- d. Flat floor design
- e. Four rows of continuous "L" track flush mounted in floor for (3) Wheel chair spaces in the rear of bus
- f. Q-Straint Q-8106-L2 wheel chair tie-downs, ship loose (3) sets
- g. (6) Track mounted 39" seat belt ready seats (no belts)
- h. Ricon S5510 ADA rear mounted wheel chair lift
- i. Kidde Fire Suppression System to be remotely mounted on chassis frame rail
- j. Front and rear mud flaps
- k. All seats in rear compartment
- l. Emergency transfer blanket in case

**14. Lettering and Numbering:**

- a. Lettering: BARROW COUNTY SCHOOLS
- b. Sequential numbering: beginning with 1801 placed in customary locations

**15. Air Conditioning:**

- a. Carrier 120,000 BTU dual in-wall flush mount front and rear bulkhead a/c system with dual three fan skirt mounted condensers and dual TM-21 engine mounted compressors.
- b. Air conditioning system must be installed by School Bus Manufacturer or School Bus Dealer. School Bus Dealer must be full service, parts and warranty provider.

**Any and all deviations from these specifications must be submitted with the bid in writing noting the specific specification number reference for that deviation. Failure to do this could result in non-acceptance of the Bid.**

**Proposal Price per bus** \_\_\_\_\_ \$

**Delivery Date to BCS** \_\_\_\_\_

**Options:**

- 1) Provide a 5 year / unlimited  
Mile bumper to bumper warranty. \$ \_\_\_\_\_/per bus

The undersigned hereby proposes and agrees to furnish new complete school buses delivered as specified herein. The bodies offered are guaranteed to meet the requirements of the specifications approved by the Georgia State Board of Education. A copy of our warranty certificates has been filed with the Georgia State Department of Education.

Company Name: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Signed: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_