

ARGOSY COMPACT BUS STANDARD SPECIFICATIONS

These specifications provide for a compact bus with seating capacity for 17, 25, and 29 passengers. The vehicle is designed and equipped to meet all applicable Federal Motor Vehicle Safety Standards. Perimeter seating is available, as well as lift-equipped units for handicapped and elderly passengers.

	CB-20 17-Passenger	CB-24 25-Passenger	CB-28 29-Passenger
General Specifications			
Outside vehicle width	96"	96"	96"
Inside vehicle width	90" @ belt line	90" @ belt line	90" @ belt line
Length	240"	288"	328"
Height	109"	109"	109"
Head room — center aisle	79¼"	79¼"	79¼"
Center aisle width w/34" seats	21"	21"	21"
Center aisle width w/39" seats	11"	11"	11"
Height of door opening	80½"	80½"	80½"
Step height from ground	9½"	9½"	12"
Curb weight	7,800	8,370	9,480
Chassis — Chevrolet			
Model	CP30832	CP31492	CP31832
Wheelbase	125"	156.5"	178"
GVWR	11,000	12,500	14,500
GAWR (front)	5,000	5,000	5,000
GAWR (rear)	6,200	7,500	9,840
Engine — w/Oil Cooler			
Bore	4.25	4.25	4.25
Stroke	4.00	4.00	4.00
Displacement	454 cu. in.	454 cu. in.	454 cu. in.
Brake horsepower	*240 @ 3800 RPM	*240 @ 3800 RPM	*240 @ 3800 RPM
Torque (pound feet)	*370 @ 2800 RPM	*370 @ 2800 RPM	*370 @ 2800 RPM
*For Calif. only — 250 @ 3800 RPM — 385 @ 2800 RPM			
Number of main bearings	5	5	5
Transmission			
Automatic w/auxiliary Hayden cooler	Model 400	Model 400	Model 475
Turning Radius			
Curb to curb	22' 11"	24' 10"	28' 3"
Axle and Suspension			
Front axle capacity	5,000	5,000	5,000
Front spring capacity	2,500	2,500	2,500
Rear axle capacity	7,500	7,500	10,000
Rear spring capacity	3,100	3,750	5,000
Rear axle ratio	4.10:1	4.10:1	4.56:1
Brakes (power hydra-boost)			
Front (disc rotor)	12.5 x 1.53"	12.5 x 1.53"	14.25 x 1.53"
Lining	46 sq. in.	46 sq. in.	46 sq. in.
Rear	13" x 3.5" (Drum)	13" x 3.5" (Drum)	13.75 x 1.53" (Disc)
Lining	162.35 sq. in.	162.35 sq. in.	46 sq. in.
Steering	Integral hydraulic power assist; tilt steering wheel		
Wheels and Tires			
Tread — Front	8.75 x 16.5 E (10 PR) 16.5 x 6 Rim 69.68	8.75 x 16.5 E (10 PR) 16.5 x 6 Rim 69.68	8 x 19.5 D (8 PR) 6.75 x 19.5 Rim 70.06
Tread — Rear	83.24 Dual	83.24 Dual	66.8 Dual
Stabilizer			
Front	Heavy duty 1¼" diameter	Heavy duty 1¼" diameter	Heavy duty 1¼" diameter
Rear	Heavy duty 1½" diameter	Heavy duty 1½" diameter	Heavy duty 1½" diameter
Battery			
Two Batteries	80 amp hour 160 amp total	80 amp hour 160 amp total	80 amp hour 160 amp total
Alternator			
Delco Leace-Neville	61 amp	61 amp	130 amp
Fuel Tank	50 gallon	50 gallon	50 gallon
Door Opening Width	26"	26"	26"

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FRAME

Material: carbon steel.
Section modulus: 5.26 (20' model), 6.12 on 24' and 28' models.
Yield strength: 39,000 PSI.

SUB-FLOOR

Sub-flooring is $\frac{5}{8}$ " plywood; grade CD, plugged face veneer, touch sanded, incorporating exterior glue. The floor is supported on a full-width sub-chassis of .090-wall 1" x 2" steel tube on 12" centers with gusseted steel outriggers extending down to the main chassis. Plywood edges are fully protected by an aluminum extrusion. Sub-floor is laid in such a manner as to be free of squeaks and securely attached through cross sills. $2\frac{1}{4}$ " fiberglass insulation is installed between floor sills.

UNDERFRAME

Cab area floor is $\frac{5}{8}$ " plywood assembled on .090-wall 1" x 2" steel tube with exterior underfloor aluminum sheet covering.

BODY

Side and roof sections of body shell are constructed of .040 aluminum alloy sheet. Front and rear top segments are .032 stretch-formed galvanized steel. Lower front and rear segments are .032 stretch-formed aluminum alloy. Roof bows are .188 aluminum alloy hat-section-shaped ribs extending from floor level to floor level.

All body joints are riveted in accordance with the best-known practices in the industry, with high-strength heat-treated rivets.

Front and rear bumpers are brushed aluminum with steel-reinforced back-up attached to the chassis frame. Tow eyes are provided on the front. Bumpers are of the wide channel type.

Interior side and ceiling panels are .032 vinyl-coated aluminum. Side panels are covered with sculptured high-impact thermo-formed ABS .090 sheet for greater passenger safety. Interior walls are insulated with $\frac{1}{4}$ "-thick fiberglass.

STEPWELLS

Stepwells are constructed of heavy gauge steel and welded directly to the frame. Riser height is 8"; tread depth, $9\frac{3}{4}$ "; tread width, $29\frac{1}{4}$ ". All stepwells are equipped with automatic night illumination.

WHEELHOUSES

Wheelhouses are constructed of heavy-gauge steel with an ABS inner cover.

FLOOR COVERING

Interior flooring is rubber, manufactured by R.C.A. Rubber Co., available in a wide range of colors. Step tread is $5/16$ " ribbed rubber flooring material with steel backing and white hypalon nosing for added safety. Center aisle strip and driver's platform are $3/16$ " ribbed rubber flooring material. Floor area under seats is covered with $\frac{1}{4}$ " R.C.A. smooth rubber anti-skid flooring.

At the door, the strip is laid with ribs perpendicular to the center aisle; joints between aisle strip and door strip are mitered at approximately 45° with grooves matching. All joints in flooring are butt-cut type, properly sealed.

SEATING

Individually-contoured passenger seats are two-passenger, forward-facing, 34" width allowing a 21" aisle, or 39" width allowing an 11" aisle. A passenger grab bar is affixed to each seat back next to the aisle. Construction is all-steel with 16-gauge 1" O.D. tube. Back and seat cushions are supported with tension suspension bands. Cushions are full molded 4-lb.-density foam construction. Seat covering is 32-oz. long-wearing vinyl. Perimeter seating is also available.

DRIVER'S SEAT

The driver's seat has the same general specifications as the passenger seats, and is of full foam construction. A pin-loc lever is provided for positive lock in the driving position. The seat offers fore, aft, and height adjustment.

DOOR

The entrance door is an electro-pneumatic-actuated split-contoured door, and is complete with brake interlock system preventing movement of the coach with the door open. There is a 28" clear door opening. Height of the door opening at the bottom step is $80\frac{1}{2}$ ". Water-deflecting roof gutters are provided above the door.

The door consists of two halves which split vertically and pivot to the outside of the coach on a parallelogram linkage. At no time during the opening or in the full-open position do the door sections protrude more than $3\frac{1}{2}$ " past the outside of the coach. Windows are provided in the door. Power for operation is provided by compressed air supplied from an air reservoir tank (capacity 700 cu. in.) fed by an electric compressor. Passenger safety pressure-sensitive door edges extend the full height of each door section, and return the door to full open position at resistance.

Normal door actuation is controlled from the driver's seat by an electric switch located at the left of the driver. An emergency opening release is provided by an air valve located inside, above the door.

A key-operated switch to close and lock or open the door is located on the outside of the coach, inside the front engine access cover.

SIDE WINDOWS

Large tinted side windows are standard on all models. Passenger sliding windows have an aluminum sash of the double-bay, horizontal-slide type, glazed with tempered safety glass set in vinyl. Driver's window is rear-sliding split type with tinted safety glass. Passenger escape windows are provided on each side, with emergency release latches that automatically activate a warning alarm when the window is released. Emergency window release instructions are on the emergency handles. All glass is single-density tinted.

REAR WINDOW

The rear window is glazed with tinted, tempered safety glass. Window consists of three sections: one flat center section and two curved side sections. Back is safety-equipped with a clear 20" x 40" opening for quick passenger escape, utilizing the same emergency release system as the side windows.

WINDSHIELD

There are approximately 3,200 square inches of tinted windshield area, allowing the driver an unobstructed view. The windshield is a two-piece fixed-type, of quarter-inch laminated safety glass set in heavy rubber channels. Windshield visor is padded, and rotates in a 120° plane above the driver.

WINDSHIELD WIPERS

Two heavy-duty electric two-speed windshield wipers are provided, controlled by dual switches mounted on the dash. An electric windshield washer is also provided. Wiper motors are mounted inside the front engine access compartment for ease of inspection and maintenance.

INTERIOR LIGHTING

12-volt lights extending the full length of the passenger compartment on either side provide lighting adequate for night reading and operation with or without the engine running. System is controlled from the driver's compartment.

The door stepwell and the area immediately outside in front of the door are illuminated by a light in the stepwell, activated by door opening. It can be shut off during daylight hours.

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GRAB RAILS, STANCHIONS, MODESTY PANEL

All stanchions and grab rails are 1¼" O.D. brushed chrome tubing. All fittings are polished cast aluminum. Stanchions are mounted ahead and aft of the door stepwell at the aisle. Horizontal grab rails extend from the stanchions to the sidewall at the entrance door. Hand-assist rails are installed angled from the door stanchions to the bottom step on either side of the door. A black vinyl modesty panel is attached to the stanchion and grab rail at the rear of the stepwell.

MIRRORS

A 4" x 16" rectangular (framed safety glass) inside rear-view mirror is mounted on the windshield center post. Fully adjustable outside rear-view mirrors are provided on both sides of the bus.

ELECTRICAL SYSTEM

All main wiring harnesses are loom or synthetic-rubber-covered and concealed for protection from the elements.

All general-purpose wiring is stranded-copper-wire core with vinyl insulation. All wiring is color-coded for easy identification, and meets all SAE requirements.

Wiring connectors are machine-staked or soldered insulated type with heavy-duty terminals.

All circuits are protected by fuses.

RADIATOR AND COOLING SYSTEM

The radiator is a down-flow tube-type with multi-louver design. It has a 542-sq. in. frontal area; is 2.68" thick; has .16" spacing between tubes; and 6.2-gallon capacity.

The radiator fan is a temperature-controlled clutch type with 6 blades, 19" diameter, and 2¼" pitch.

The system has sufficient capacity to properly cool the engine in heavy service without the necessity of adding any coolant, and is provided with

a self-unloading valve to prevent damage from extreme pressure. The filler neck has a 15-lb. pressurized cap. A coolant recovery system is provided as standard equipment. The system is filled with a permanent-type anti-freeze.

HEATER-DEFROSTER

The heater-defroster is a dash-mounted unit with a 40,000 BTU rating, ducted to the driver compartment and the stepwell.

EXTERIOR LIGHTING

Exterior lighting meets all Federal requirements. The coach is provided with 12-volt sealed-beam automotive headlights with tilt-ray features, controlled by a button dimming switch mounted on the floor convenient to the operator's left foot. A headlight high-beam indicator is installed on the instrument panel.

Two 4" square automotive-type combination stop and turn lights and two 4" back-up lights are provided for the rear of the coach. Two automotive-type turn indicators are provided on the front of each vehicle. Turn signals are controlled by one switch of the self-cancelling type. Rear lights are red; front lights are amber. Front and rear lights are flush-mounted. The stop light switch is protected from road splash and other contaminants. Illumination is provided for the rear license plate.

Roof marker lights, one at each corner of the coach, are provided, as well as three clearance lights at both the front and rear of the vehicle. Four reflectors are provided, two amber on the lower front and two red on the rear.

A hazard-warning flasher is connected with the turn light circuit for emergency stops, and is activated each time the door opens.

EXTERIOR PAINT

The exterior is finished with DuPont Centauri acrylic paint. A two-tone combination (customer's choice of colors) is standard.

OPTIONS

Basic options are as follows:

AIR CONDITIONING

Argosy offers a commercial bus air conditioning system. The system utilizes a skirt-mounted condenser with epoxy-sealed motors for air circulation. The evaporator section is mounted in the ceiling, and molded covers are used to integrate the evaporator into the contour of the interior. The evaporator extends the full length of the passenger section. A separate unit is provided for the driver.

REAR HEATER UNIT

The rear heater unit with 3-speed control switch on the dash contains two heaters with a combined BTU rating of 80,000. The unit has adjustable nozzles. It is mounted under the rear seat.

DESTINATION SIGN

The destination sign has a sealed outside viewing area of 5" x 38", and is illuminated by fluorescent lights.

The sign has a capacity of 25 separate destination listings, each with 4¾" characters. Destination listings are rotated with an electric advance mechanism from inside the bus. There is a 4" x 4" viewing window with a pointer above the driver area for determining which listing is displayed outside.

FARE BOX

A Diamond Manufacturing fare box is offered for fare collections. The Model H is designed for large operations or heavy runs. It is 5" in diameter, 23" high, and weighs 16 pounds. The Model E-5 is 5" in diameter, 20" high, and weighs 14 pounds. Both take coins, tokens, and tickets.

OTHER OPTIONS AVAILABLE: Driver air vent, driver comfort fan, passenger signal chime, mud flaps (must be used on lift-equipped buses), brushed chrome overhead handrail, driver's panel and brushed chrome stanchions, stainless steel stanchions, stainless steel handrails, 26" bi-fold door (24' and 28' models only), 26" rear door (24' and 28' models only), 36" door (front only), 52" bi-fold door (front only), hydraulic lift with 36" door (24' and 28' models only), semi-automatic wheelchair tie-downs, seat belts with tie-downs (for wheelchairs), jump seats, special gauges (customer request or state requirement), AM/FM stereo with tape deck, AM/FM stereo with tape deck and P.A., carpeting (indoor-outdoor), spare tire, safety triangles, wheel covers, special-order paint (more than two colors), first-aid kit, back-up horn, brake retarder, California emission controls, steel-belted radial tires, accelerator interlock, bumper guards, tailpipe hangers, outside floodlight, luggage rack (special request).

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