

M·A·N

ARTICULATED TROLLEY BUS



SL-T

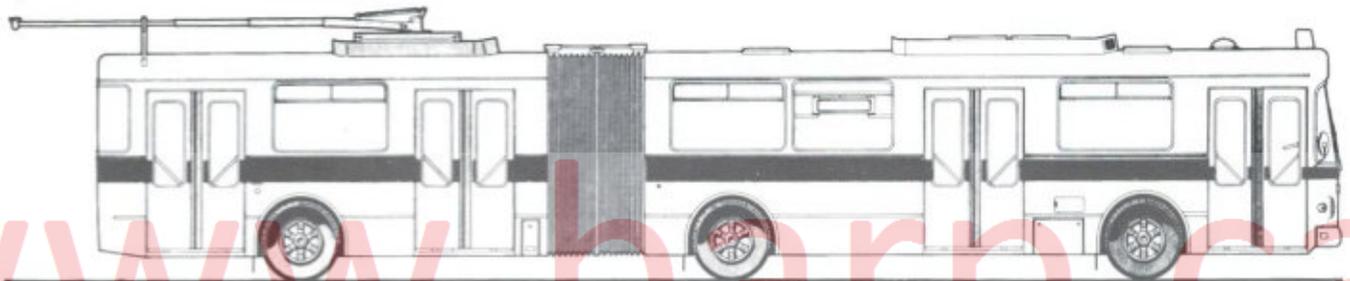


Standard trolleybus, basis SL 200

Standard city-service trolleybus.
Vehicle length 40 ft. nominal.
Single-collector 600 V DC motor.

Seating for 24, standing room for 83+
107 passengers
Fittings in accordance with VOV guidelines
as for M.A.N. SL 200.
A product of the OAF Graf & Stift AG.

SG-T



Standard articulated trolley bus, basis
SG 220

Standard city-service trolley bus.
Vehicle length 55 feet nominal.
Single-collector 600 V DC motor.

Fittings in accordance with VOV guide-
lines as for M.A.N. SG 220.
Like the SG 240 H, the SG-T can also be
supplied with rear-mounted underfloor
engine.
A product of the OAF Graf & Stift AG.

**M.A.N./OAF TROLLEY BUSES, LIKE THESE CURRENT MODELS,
ARE PROVEN IN TRANSIT SERVICE AROUND THE WORLD.**

Passenger seating

American Seating Model 6464T, with energy absorbing grab rail covered with textured, molded plastic. Seating arrangement to specification.

Ventilation

One driver's sliding window, driver's heater can be switched to ventilation mode, 3 roof vents, 2 ram air vents on top of windshield. Forced ventilation through heating and ventilation system blowers.

Air conditioning

Automatically controlled A/C system, driven by electric motor in

Special equipment

Buses can be equipped with driver's light, map light, farebox light, stop-request signs, chime cords and switches or push public address system with 9 loudspeakers, tachograph, radio box, sun visor or curtain for windshield, wheel sanders.

Electrical equipment

Instrument panel with speedometer, and gauges for the 3 brake circuit pressures.

2-speed parallelogram-type windshield wipers with washer.

Interior lighting: Full length

Wheelchair lift

Wheelchair lift as manufactured by Lift-U, Inc.; can be provided in the front door location.



Engine/Control

Any kind of available drive unit can be installed. The equipment will be adjusted according to customer wishes.

Varying trolley bus motor/control combinations are available:

600V DC 110-150 KW motor — resistor/relay control

600V DC 170 KW motor — electronically-controlled relays

600V DC 150 KW AC motor — 3-phase converter

60V DC 170 KW motor — chopper control

Engine installation in the tractor under the floor, between axles.

A separate motor powers the compressor and Delco-Remy series 50 DN, type 600, 28 V, 270 amp alternator.

Batteries: two, 12 V, 208 amp on pullout tray, mechanical battery main switch.

Auxiliary propulsion

Various equipment, consisting of internal combustion engine/generator can be installed in the trailer according to the customer wishes.

Maximum speed obtainable in auxiliary mode is 20 mph.

Heater

Electric heating system with provision for introducing fresh air, windshield defroster and driver's heater.

Weight/Dimensions

Maximum GVWR	59,525 lbs.
Outer turning radius:	
60' bus	43.3'
55' bus	39.4'

Inner turning radius:

60' bus	25.6'
55' bus	19.7'

Floor height:

First door	37.56"
Second door	38.27"
First step height	14.52"
Headroom	78.30"

Max. bend angle:

Horizontal	± 36 deg.
Vertical	± 11 deg.

Seating capacity:

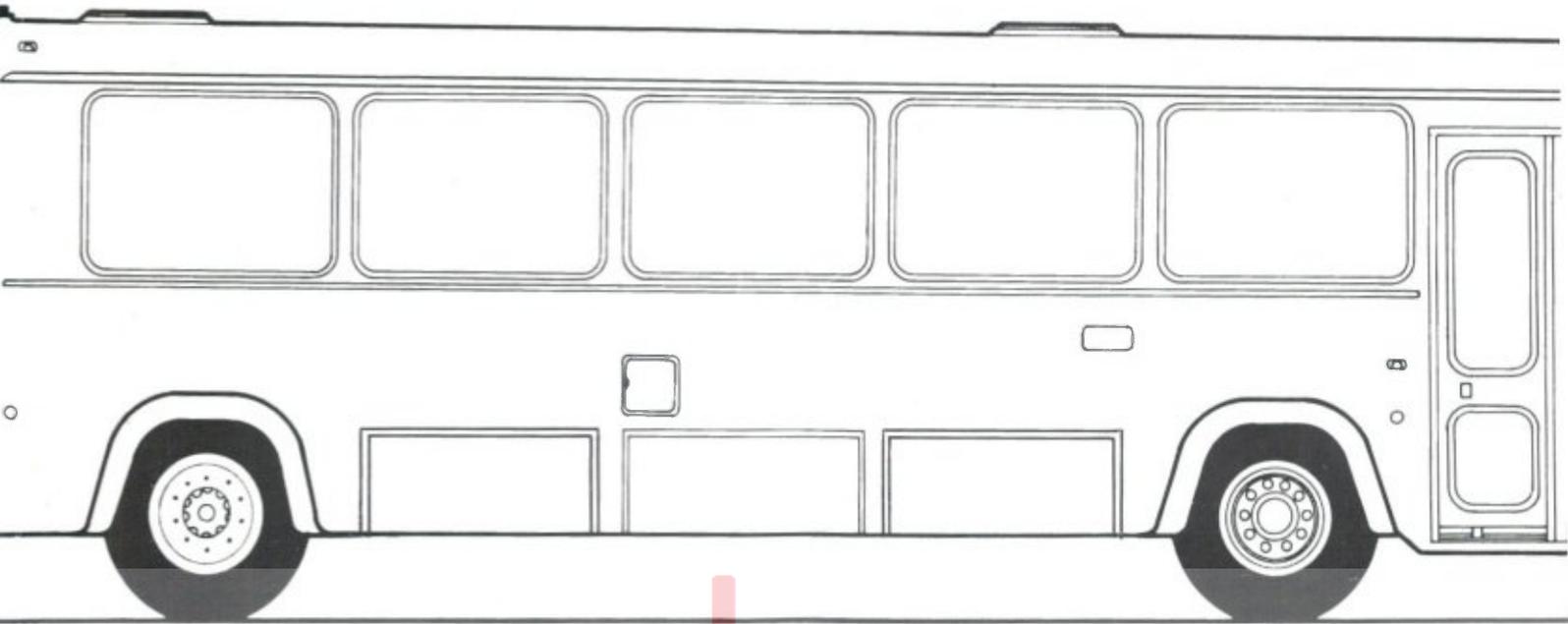
From 64 seats (55' bus) to 72 seats (60' bus) depending on seating arrangement.

Steering control

Recirculating ball power steering ZF 8065 with test connectors. The hydraulic radial piston pump is driven directly by the drive motor. It is already effective at lowest speeds.

Two-spoke steering wheel with 21.6" diameter.

ARTICULATED TROLLEY BUS FOR U.S.A.



Axles

Front axle: Independent suspension, floating axle with trapezoidal locating arms.

Drive axle: Hub-reduction rigid axle with spiral bevel gear reductions in the head assembly and planetary drive in the wheel hubs. Axle suspension with A-frame beam.

Gear ratio: Up to 11.12:1

Rear axle: Same as front axle.

Suspension

Air suspension with identical roller bellows, 2 bellows for each axle. At front and trailer axle, 1 level control valve each. On drive axle, 2 level control valves.

Wheels

10-hole disc wheels 8.00-20 or 8.5-20 depending on tire size.

Body

Self-supporting. The chassis forms one unit with other body members. The skeleton made of high-strength tubular steel is electrically welded.

Exterior panels are made of 0.04" thick sheet metal. The corrosion protection and insulation are based on modern techniques; e.g., sidewalls are galvanized steel, wheelhouses and stepwells are stainless steel, chassis skeleton foamed out.

Constant step height and ride comfort regardless of load.

Two load-sensitive shock absorbers on each axle.

Brakes

Load-sensing three-circuit air brake system in compliance with FMVSS 121.

Service brake:

Front and trailer axle diaphragm cylinders. Drive axle two twin brake cylinders with automatic

Parking brake:

Air-operated spring brake. Pneumatic auxiliary release system.

Dynamic brake:

Electric resistor brake with optional regenerative feature. Actuation through brake pedal occurs during the first 1/3 of travel.

Hill-holder brake:

Allows driver to take the foot from the brake pedal with bus still held by the brakes.

Paint

DuPont "Imron" Polyurethane, oven baked. Driver's area painted black.

Glazing

All side windows with clear anodized aluminum non-sliding type sash, with 3/16" AS-3



tempered glass. One piece or two piece top opening vent type windows available. Glazing tint to specification.

Doors

Electro-pneumatically controlled slide-glide, inward opening, two section doors. Direct driver control or touch-bar control on rear door. Two or three doors available. Emergency release on all doors. Stepwell lighting from door header compartment, curb lighting by exterior installation.

An automatic interlock actuates brakes as long as doors are not completely closed, or when maximum horizontal bend angles are exceeded.

Destination signs

Front: Single (or to specification) curtain, electric drive. Mask opening 7½" by 53", illuminated.

Side: To specification.

Route number signs can be provided front, side and rear to specification. Electronic signs also available.

Mirrors

Exterior: Fully adjustable 8" x 8", non-corrosive, adjustable to prevent damage from automatic washers.

Interior: 6.38" x 12.38" rectangular rearview mirror, for stepwells combination of 6.5" x 6.5" front mirror with 12" diameter stepwell mirror.

Floor and floor covering

Floor: ¾" plywood. Floor and wheel-houses covered with rubber flooring to specifications.

Interior panelling and trim

Melamine panelling in various colors and surfaces, retained by aluminum extrusions.

Longitudinal air-ducts, aluminum. All floor trim black anodized aluminum.

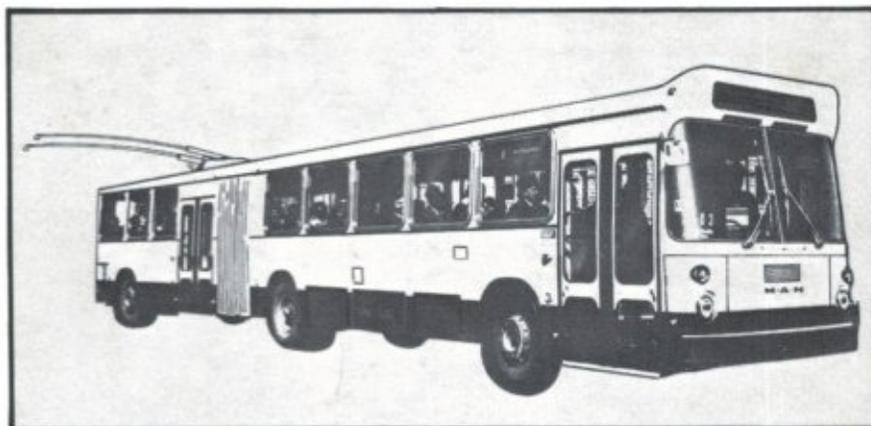
Stanchion and grab rail

Stanchion and grab rails made of ¼" stainless steel tubing. Full length ceiling grab rail on each side of aisle. Stanchion arrangement to specification.

Driver's seat

National Seating Model 52 (or to specification).

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American Built/For American Cities

M.A.N. TRUCK & BUS CORPORATION

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