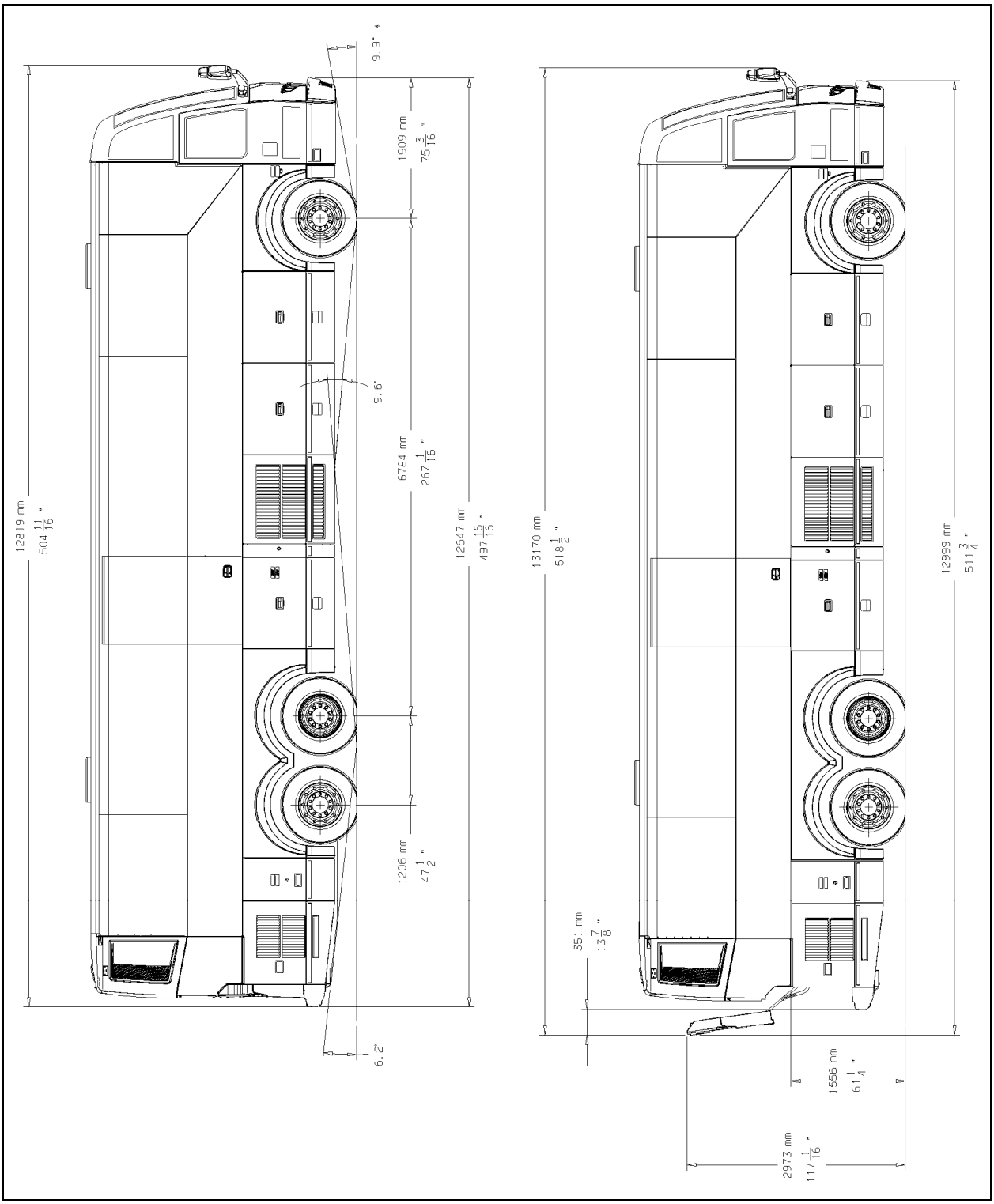
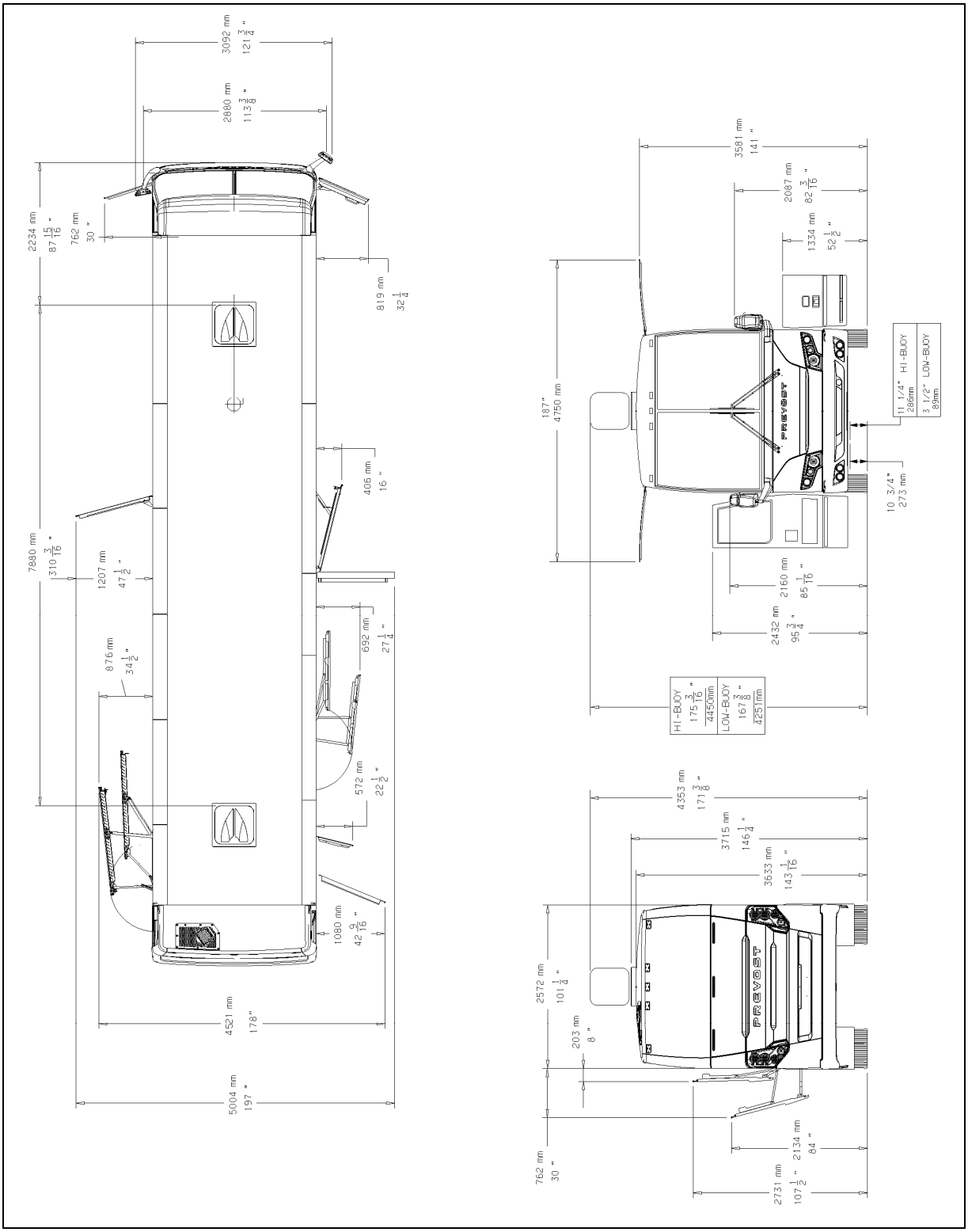
CONTENTS



H3-41 OVERALL DIMENSIONS 18527_2



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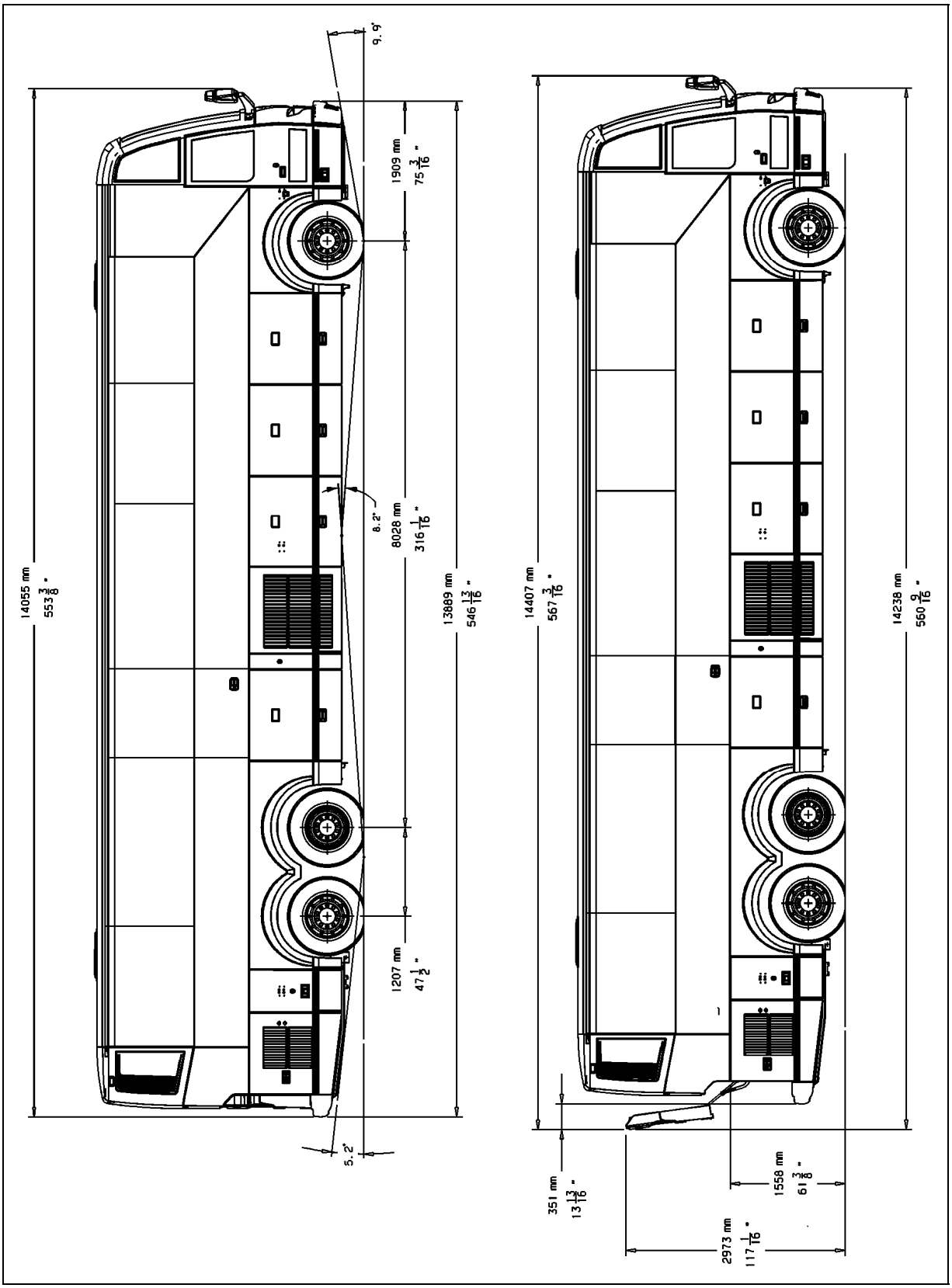

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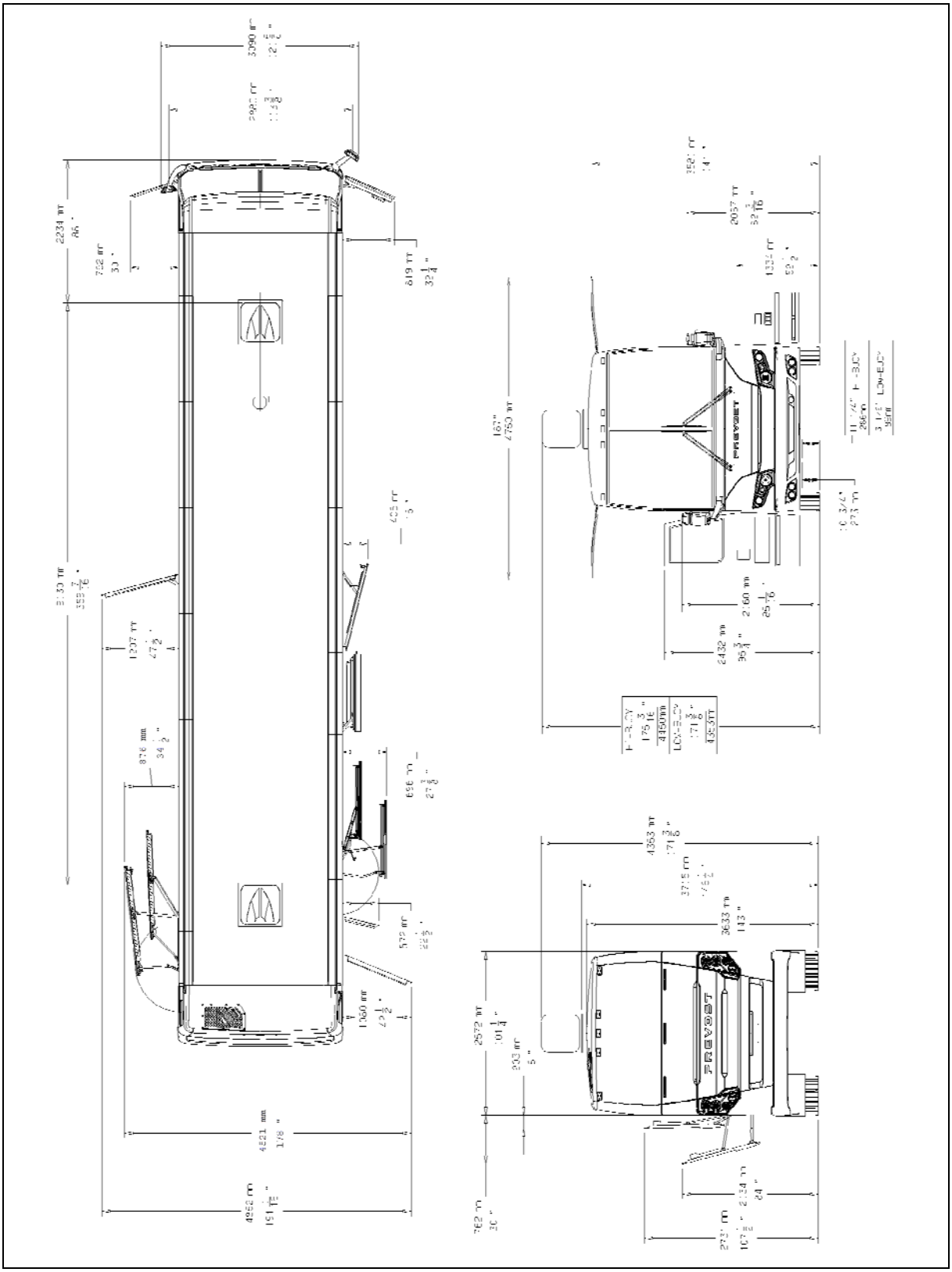

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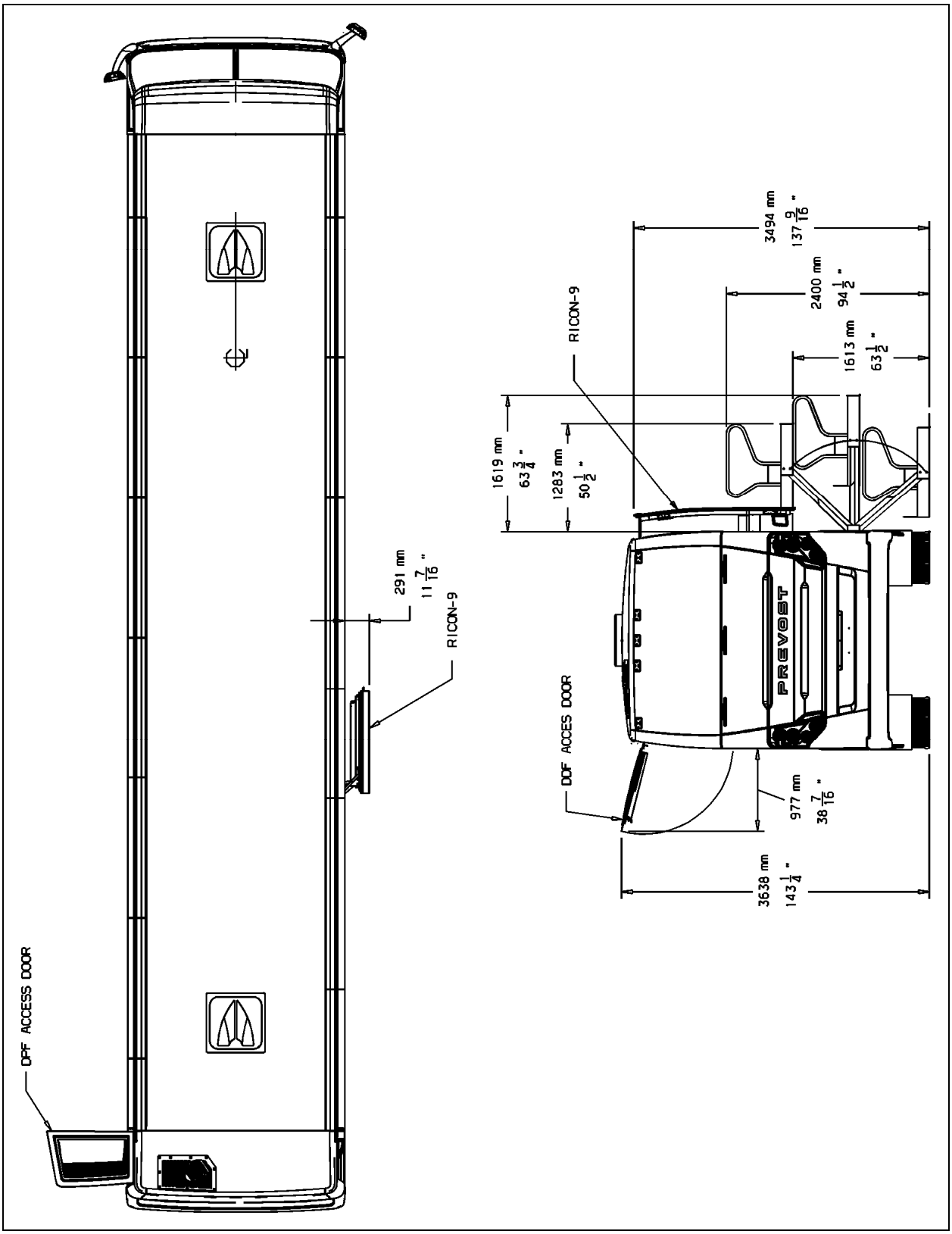


H3 SERIES WITH WHEELCHAIR LIFT - OVERALL DIMENSIONS 18525_3

DIMENSIONS AND WEIGHTS	H3-41	H3-45
Overall length (over bumpers)	41' 0" (12.5 m)	45' 0" (13.7 m)
Overall width	102" (2.59 m)	
Overall height (normal ride height)	146.25" (3.715 m)	
Wheelbase (center of front axle to center of drive axle)	264.3" (6.714 m)	313.4 (7.96 m)
Floor height from ground	63" (1.6 m)	
Ground clearance	10.75 " (273 mm)	
Step height from ground	14" (356 mm)	
Step height (other steps)	7" (178 mm)	
Seats	48	56 - 58
Headroom	77" (1.956 m)	
Entrance door opening width	28" (711 mm)	
Aisle width (minimum)	14" (355mm)	
Front overhang	75" (1,91 m)	
Rear overhang	108.37" (2.753 m)	
Front track	85.6" (2.176 m)	
Drive track	74.9" (1.902 m)	
Rear track (tag axle)	81.9" (2.082 m)	
Turning circle radius (I-beam axle)	39' 7" (12.1 m)	45' 4" (13.8 m)

DIMENSIONS AND WEIGHTS	H3-41	H3-45
Turning circle radius IFS	41.6' (12.6 M)	
Curb weight [1]	36 615 LBS (16608 KG)	38 565 LBS (17493KG)
Gross Vehicle Weight Rating (G.V.W.R.) [2]	53 000 lbs (23 665 kg)	
Front axle Gross Axle Weight Rating (G.A.W.R.)	16 500 lbs (7 500 kg)	
Drive axle G.A.W.R.	22 500 lbs (10 230 kg)	
Tag axle G.A.W.R.	14 000 lbs (6 365 kg)	

NOTE

Curb weight is given as an indication only and is subject to vary from coach to coach, mostly due to optional equipment.

The Gross Vehicle Weight Rating (G.V.W.R.) and the Gross Axle Weight Rating (G.A.W.R.) for front drive and tag axles are listed on a certification plate located on the L.H. control panel in driver's section.

[1] Weight of a motor vehicle complete with body excluding the payload. Includes standard equipment, a full load of engine fuel, oil, and coolant and, if so equipped, air conditioning and the additional weight of any optional engine.

[2] Maximum weight specified by the manufacturer for a single vehicle. The gross vehicle weight rating is equivalent to the sum of the gross axle weights specified by the manufacturer under each wheels of the axles (front, drive & tag) of the vehicle.

CAPACITIES	
Volvo D13 Engine oil (refill volume with filter change)	40 quarts (38 l)
Fuel tank (legal capacity equal to 95% of volume)	222 US gal (840 liters)
DEF tank	16 US gal 60 liters
Cooling system	26.2 US gal 99 liters
Allison transmission (does not include external circuit)	6 US gal (23 liters) 6.9 US gal (26 liters) with retarder
Volvo I-Shift transmission	16 quarts (15 liters)
Differential oil	5 US gal (19 liters)
Power steering reservoir	4 quarts (3.7 liters)
A/C compressor oil	6.3 US pints (3 liters)
Windshield washer reservoir	5 US gal (19 liters)
Refrigerant	26 lbs (11.8 kg)
Toilet septic tank	Small: 13 US gal (49.5 liters) Large: 30 US gal (113 liters)

BAGGAGE COMPARTMENTS

Total volume (H3-45) 470 ft^3

Total volume (H3-41) 355 ft^3

Loading capacity 2500 lbs/comp

FUEL TYPE

Diesel engines for 2007 and later model year vehicles are designed to operate only with **Ultra Low Sulfur Diesel** (ULSD) fuel, which can contain no more than 15 ppm sulfur.

CAUTION

ULSD fuel is necessary to avoid fouling the engine's Aftertreatment Device (ATD). Use of fuel other than ULSD will reduce the efficiency and durability of the engine.

BIODIESEL FUELS

Biodiesel up to a maximum of 20% blend (B20) may be used and will not affect the manufacturer's mechanical warranty as to engine and emissions system related components, provided the biofuel used in the blend conforms to ASTM D6751, B1 to B5 blends conform to ASTM D975, and B6 to B20 blends conform to ASTM D7467. Also, any engine performance problem related to the use of biodiesel fuel would not be recognized nor considered as Volvo or Prevost's responsibility.

However, Volvo engines are certified to comply with U.S. EPA and California emissions standards based upon the use of test fuels with specifications established by these regulatory agencies. Alternative fuels, including biodiesel, that are not substantially similar to the required test fuels may adversely affect engine emissions compliance. As a result, Volvo does not warrant the engine will conform to applicable Federal or California emissions limits when operated on biodiesel or other alternative fuels that are not substantially similar to specified test fuels used for certification.

Additional maintenance is required and is covered in Section 03: FUEL SYSTEM of the maintenance manual.

WHEELS AND TIRES

Accuride steel wheels.....9" X 22½"

Alcoa aluminum forged wheels .....9" X 22½"

Alcoa aluminum forged wheels (for super single tire).....14" X 22½"

Tires ..... 315/80 R22.5 load range "L"

Tires .....365/70 R22.5 load range "L"

Tires (super single) . 455/55 R22.5 load range "L"

RECOMMENDED TIRE INFLATION PRESSURE AT MAXIMUM COLD LOAD

The recommended tire inflation pressures are given in the applicable documents supplied with the vehicle. In addition, cold tire inflation

pressures are listed on the Department of Transport (DOT) certification plate, affixed on the wall behind the driver's seat. For special tire selection, a "Prevost coach special specification" chart is supplied with the vehicle and is affixed next to the DOT certification plate, located on the left wall close to the driver's seat.

Vehicle equipped with TPMS: The TPMS target pressures are factory set to equal the prevailing tire pressure at delivery time. When tire pressures are increased to account for higher vehicle weight, the TPMS set point need to be increased accordingly.

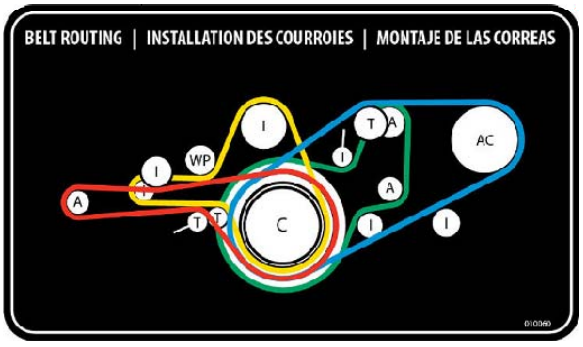
CAUTION

These tire pressures are established in accordance with the maximum allowable load on each axle. A lower pressure is recommended if the axle load is less than the above specifications. Weigh vehicle fully loaded and pressurize according to tire manufacturer's recommendations. For non-standard tire and wheel specifications, see Prevost tire pressure tabulation in "Coach Final Record" or special specification chart affixed next to the DOT certification plate.

WARNING

Special tire selection may lower maximum allowable speed limit, even below posted speed limit. For maximum safety, check with tire manufacturer.

BELTS



A: Alternator	**I:** Idler	**T:** Tensioner
C: Crank	**WP:** Water pump	**AC:** A/C compressor

Belt application	Type	Qty
A/C system Bitzer 4NFCY compressor	V Belt BX71	2
Alternator (twin Bosch, curb side)	Multi-V-8 Rib 8PK1575	1
Alternator (emergency)	Multi-V-8 Rib 8PK1512	1
Alternator (single, driver side)	Multi-V-10 Rib 10PK1695	1
Coolant pump	Multi-V-10 Rib 10PK1512	1

NOTE

Belts specifications may vary. For proper belt selection, always consult your vehicle Coach Final Record.

ENGINES

VOLVO D13

Type: 4 cycles / inline six cylinders

Displacement: 12.8 liters, SOHC, 4 valves per cylinder

Power .....435 HP

Torque ..... 1700 lbf·ft @ 1100 rpm

Recom. cruise speed range..... 1300-1500rpm

Full dress, dry weight.....1174 kg / 2588 lb

TRANSMISSION

VOLVO I-SHIFT TRANSMISSION

Electronically controlled twelve speed automatic transmission.

Gear ratios

1st 14.94

2nd 11.73

3rd 9.04

4th 7.09

5th 5.54

6th 4.35

7th 3.44

8th 2.70

9th 2.08

10th 1.63

11th 1.27

12th 1.00

Reverse 1st 17.48

Reverse 2nd 13.73

ALLISON TRANSMISSION

Allison B500 (B500R with the optional output retarder) electronically controlled six speed automatic transmission.

See appendix C for the fluid level sensor code description.

Gear Ratios

1st 3.510

2nd 1.91

3rd 1.43

4th 1.00

5th 0.74

6th 0.64

Reverse 4.80

Converter 1.58

Differential ratio 3.91

Differential ratio (optional) 3.58

PROPELLER SHAFT

Dana SPL250

BRAKES

The features of the braking system include a dual system where the front and rear circuits are completely independent from each other. The brakes are air operated disc type brakes. The emergency/parking brakes are located on the drive. To ensure a constant running clearance between pads and disc, the brakes are equipped with a non-wearing, automatic adjuster mechanism.

BRAKE CHAMBER EFFECTIVE AREA

Front axle (Rigid front axle) ..... 24 in^2

Drive axle ..... 24/24 in^2 (service/emergency)

Tag axle ..... 16 in^2

AIR SYSTEM

Compressed air is provided by a twin cylinder, 31.8 cfm Wabco, gear-driven, water-cooled and engine oil lubricated air compressor.

ANTILOCK BRAKING SYSTEM (ABS)

The antilock braking system has one Electronic Control Unit (ECU) controlling a 6-sensor/5-

modulator (6s/5m) system. A wheel slip sensor is mounted at each wheel.

The Electronic Control Module (ECM) is maintenance free. Its operating voltage is 24 ± 6 volts DC. The thermal operating range for the ECM is from -40 to 167°F (-40 to 75°C).

The solenoid control valves are maintenance free. Their operating voltage is 24 (+4.8, -2.4) volts DC. The rated current draw is 1.65 amps. The thermal operating range of the solenoid control valves is from -40 to 176°F (-40 to 80°C).

TROUBLESHOOTING AND TESTING

For troubleshooting and testing of the vehicle's anti-lock braking system, refer to Meritor WABCO Maintenance Manual: *"Anti-Lock Brake Systems For Trucks, Tractors and Buses"* or use menu "Diagnostics" of the DID (see "Driver information display menus" in Section 5 *Other Features*).

AUTOMATIC TRACTION CONTROL (ATC) – ELECTRONIC STABILITY CONTROL (ESC)

In addition to the ABS function, vehicle may be equipped with an advanced model of Bendix EC-60 controller to provide an **Automatic Traction Control (ATC)** feature. Bendix ATC can improve vehicle traction during acceleration, and lateral stability while accelerating through curves. ATC utilizes **Engine Torque Limiting (ETL)** where the ECU communicates with the engine's controller and/or **Differential Braking (DB)** where individual wheel brake applications are used to improve vehicle traction.

The EC-60 advanced model controller also provides ABS-based stability features referred to as **Electronic Stability Control**.

Refer to Maintenance Manual, Section 12: Brake and Air System for more information on this system.

CAUTION

Even with ESC-equipped vehicles, the driver remains responsible for ensuring vehicle stability during operation.

WARNING

ESC may reduce the vehicle speed automatically.

ESC can make the vehicle decelerate automatically. ESC can slow the vehicle with or without the operator applying the brake, and even when the throttle is being applied.

STEERING

ZF 8098 integral steering gear model

- Variable assistance in function of speed is optional
- ZF servocomtronic integral steering gear model
- ZF hydraulic pump gear driven from engine drive
- Hydraulic reservoir and dipstick accessible from engine compartment
- System pressure 2320 psi
- Steering wheel diameter 20". Tilt and telescopic, pneumatically locked with foot operated switch for adjustment
- Number of turns: 5¾.
- Outside turning radius: see Dimensions and Weight

ELECTRICAL SYSTEM

- 24 volt, negative ground
- 12 volt exterior lighting
- Three 28 volts, 150 amp, self-regulated, belt-driven, air-cooled HD 10 Bosch alternators;
- Four 12 Volts, group 31 AGM type batteries connected in series/parallel. Each one has a reserve capacity of 200 minutes and a cold cranking capacity of 800 amps
- 100 amp battery equalizer

AXLES

I-BEAM FRONT AXLE

- Dana Spicer model S84V with forged “I” beam
- Reverse Elliot type
- Unitized wheel bearings (maintenance free)
- Factory pre-adjusted caster

FRONT AXLE IFS (INDEPENDENT FRONT SUSPENSION)

- Prevost independent front suspension with recalibrated air springs for improved comfort
- Wide apart double A-arm design mounted on ball joints with torque link
- Double sealed taper roller bearings bell crank and idler steering arm
- Unitized wheel bearing (maintenance free bearing)
- Factory pre-adjusted caster

DRIVE AXLE

- Meritor model RC23-165
- Full floating banjo type
- Oil lubricated wheel bearings
- Factory pre-adjusted caster

TAG AXLE

- Prevost hollow square beam
- Unitized wheel bearings (maintenance free)

SUSPENSION

Goodyear rolling lobe type air springs (bellows) are used throughout

I-BEAM FRONT AXLE

- 2 Bellows (12”)
- 2 Shock absorbers
- 4 Radius rods
- 1 Transverse radius rod
- 1 Height control valve
- 1 Anti-roll bar, 2” diameter

INDEPENDENT FRONT SUSPENSION (IFS)

- 2 14-inch Bellows for a G.A.W.R. of 19 000 lb
- 2 Shock absorbers
- 2 Upper A-arms
- 2 Lower A-arms
- 2 Torque rods
- 2 Steering Levers
- 1 Height control valve
- 1 sway bar (1¾" diameter)

DRIVE AXLE

- 4 Bellows (11”)
- 4 Shock absorbers
- 3 Radius rods
- 1 Transverse radius rod
- 2 Height control valves
- 1 Anti-roll bar, 1½” diameter

TAG AXLE

- 2 Bellows (12”)
- 2 Shock absorbers
- 3 Radius rods
- 1 Transverse radius rod

ALIGNMENT SPECIFICATIONS

Use static wheel alignment systems which work with angle measurements only, such as Josam or Hunter systems. Static alignment specifications are listed in the following tables:

I-BEAM FRONT AXLE			
	Minimum value	Nominal value	Maximum value
Right camber	-0.25°	0.125°	0.375°
Left camber	-0.25°	0.125°	0.375°
Right caster	2.0°	2.75°	3.5°
Left caster	2.0°	2.75°	3.5°
Total toe	0.04°	0.06°	0.08°

DRIVE AXLE			
	Minimum value	Nominal value	Maximum value
Thrust angle	±0.11°		
Total toe	0.18° toe-in	0°	0.18° toe-out

AUXILIARY AXLE			
	Minimum value	Nominal value	Maximum value
Thrust angle*	-0.02°	0°	0.02°
Total toe	0.08° toe-in	0°	0.02° toe-out
(*) Use the drive axle as reference			

COOLING SYSTEM

- Extra capacity, Aluminum radiator and aluminum charge air cooler arranged side by side.
- 24V ECU controlled electrical cooling fans, total of eight, six on radiator side and two on charge air cooler.
- Rubber insulated from the body.
- Expansion tank above radiator and remote mounted.
- System pressure 14 psi.
- 185° F thermostat.
- Full system capacity 26.2 US gal (99 l).
- Coolant filter.

FUEL SYSTEM

Polyethylene 222 US gallons (840 liters) fuel tank located in middle of second baggage bay (heating and a/c section) includes:

- Anti-spill device
- Safety filler cap on each side of coach
- Pressure relief valve
- Electric fuel gage
- Low level signal at 22 US gallon (83 liters)
- Primary filter 25 microns (standard).
- Primary fuel filter with electrical water indicator (Volvo D13)
- Fuel pro 382 filter available as an option as a primary filter.
- Secondary filter 3 to 5 microns.
- Shut-off valve on fuel supply line.

EXHAUST SYSTEM

One all stainless steel exhaust system including:

- Aftertreatment system made of a DPF (Diesel Particulate Filter), DOC (Diesel Oxidation Catalyst) and SCR system. Noise, vibration and heat insulated. This ATD is mounted to the bus structure and is accessible through an exterior access door.
- Tail pipe diffuser and rain deviation device.
- Exhaust pipe with insulation and a flexible section.

- Exhaust to rear left hand top of rear cap.

HEATING AND AIR CONDITIONING

A large capacity, central A/C provides enough conditioned and filtered air for all climatic conditions. Fresh air is drawn into the system from the evaporator compartment on driver's side of the vehicle. Return air is taken from the middle of the vehicle. The driver's heater and defogger are controlled separately from the central unit. An air mixture selector enables air to be drawn into the system from outside the vehicle or recirculated. Optionally, condensers installed in the overhead storage compartments provide cool air to the seated passengers from the overhead registers.

A/C SYSTEM	
Cooling capacity	9 tons
Refrigerant type	134a
Heating capacity	150 000 Btu/h
Airflow	2 600 cfm (73.6 m^3/min)

COMPRESSOR	
Number of cylinders	4
Operating speed	500-3500 rpm
Oil capacity	2.6 US qts (2,5 l)
Approved oil	Bitzer BSE55 (POE)

NOTE

The above oils are suitable for use with reciprocating compressors using refrigerant R-134a and with evaporator temperatures above -40°F (-40°C).

OIL SPECIFICATIONS

ENGINE

For the Volvo D13M engine, we recommend using SAE 10W30 ''Volvo Premium Motor Oil VDS-4.5'' or other Volvo Approved VDS-4.5 oils.

Volvo VDS-4.5 oils exceed API service category Ck-4 oils.

ALLISON TRANSMISSION

The Allison transmission must be filled with Castrol TranSynd™ or TES 295 fluid or TES 389 fluid.

VOLVO I-SHIFT TRANSMISSION

Only use VOLVO-approved synthetic transmission oil in the I-Shift transmission. Refer to section 24 of the Maintenance Manual for more information about oils approved by Volvo.

DIFFERENTIAL

Multigrade gear oil meeting MIL-PRF-2105E: 85W140 is recommended for use in drive axle. This lubricant performs well over a broad temperature range, providing good gear and bearing protection in a variety of climates. If temperature drops below 10°F (-12°C), 80W90 should be used, and below -15°F (-26°C), 75W90 should be used. In extreme conditions or for better performance, full synthetic gear oil should be used.

POWER STEERING RESERVOIR

Use Automatic Transmission Fluid (ATF) Dexron-IIE or Dexron-III for this system.

PRE-HEATING SYSTEM

Depending on options chosen, a coolant heater may be installed on the coolant circuit. The heater can be used as a pre-heater or as an auxiliary heat source.

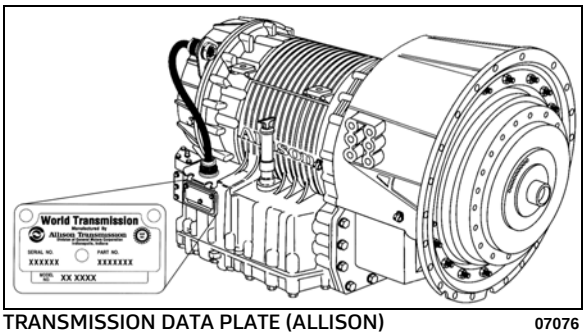
Only the Spheros 104,000 Btu preheater is available. The heater is controlled by a programmable timer. See Section 5 *Other Features* for information on how to use the timer.

Spheros		
Model		Thermo 300
Heating output		104,000 Btu/hr (30 kW)
Fuel type		Same as engine
Fuel consumption		4.8 US qts/hr (4.5 l/hr)
Rated voltage		24 V DC
Operating voltage		20-28 V DC
Electric power consumption without water pump		110 watts
Dimensions Inch (mm)	(L)	24.01 (610 mm)
	(W)	9.69 (246 mm)
	(H)	8.66 (220 mm)
Weight	lb (kg)	41.88 (19)

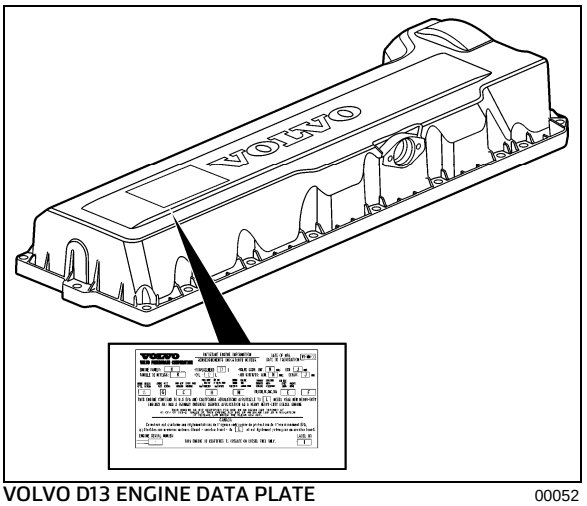
PLATES AND CERTIFICATION

The main components of the vehicle, such as engine, transmission, axles and the chassis are identified by different serial numbers. It may be necessary to locate these numbers for warranty purposes.

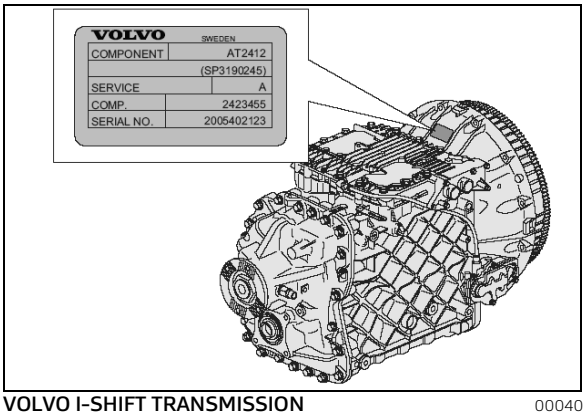
In addition, option decals are located on the rocker cover (starter side). The engine serial and model number and a list of the optional engine equipment are written on these decals. Refer to this information when ordering replacement parts.



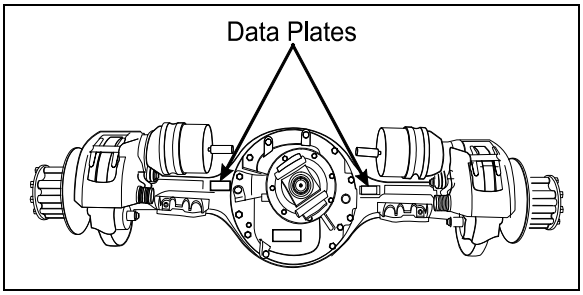
TRANSMISSION DATA PLATE (ALLISON) 07076



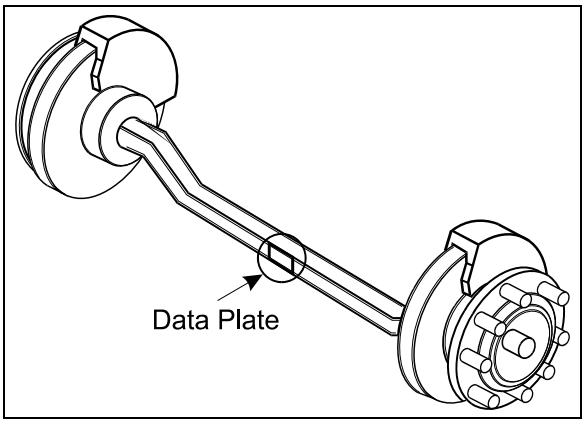
VOLVO D13 ENGINE DATA PLATE 00052



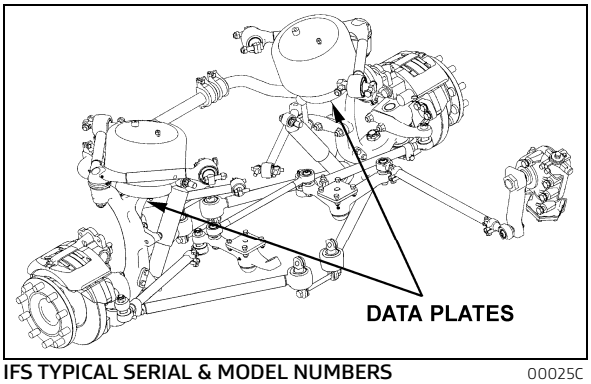
VOLVO I-SHIFT TRANSMISSION 00040



DRIVE AXLE 11019



I-BEAM FRONT AXLE 00008



IFS TYPICAL SERIAL & MODEL NUMBERS 00025C

SAFETY CERTIFICATION

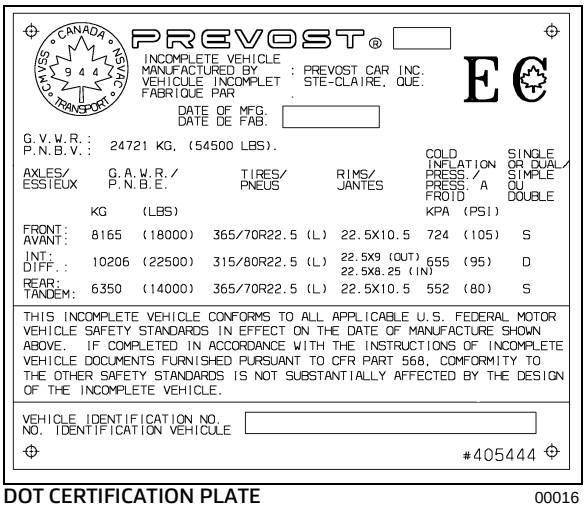
Vehicle components meet specifications and standards as follows:

- Material and parts conform to ASTM and/or SAE standards in effect at the time of manufacture.
- All factory-installed interior materials meet FMVSS 302 for fire resistance.
- Certified according to Provincial, State and Federal Safety standards (Canadian and US) BMCSS, FMVSS and CMVSS.

Other applicable certification labels are affixed to the applicable components.

DOT CERTIFICATION PLATE

This certifies that vehicles manufactured by Prevost Car Inc. comply with all Federal Motor Vehicle Safety Standards at the time of manufacture. Information such as date of manufacture, model year, gross vehicle weight rating, tire types and inflation pressure is also etched on this plate. The DOT certification plate is affixed behind the driver's seat.



PREVOST®

INCOMPLETE VEHICLE
MANUFACTURED BY : PREVOST CAR INC.
VEHICULE INCOMPLET : STE-CLAIRE, QUE.
FABRIQUE PAR

DATE OF MFG.
DATE DE FAB.

G.V.W.R.:
P.N.B.V.: 24721 KG, (54500 LBS).

AXLES/ ESSIEUX	G.A.W.R./ P.N.B.E.		TIRES/ PNEUS	RIMS/ JANTES	COLD INFLATION PRESS./ PRESS. A FROID		SINGLE OR DUAL/ SIMPLE OU DOUBLE
	KG	(LBS)			KPA	(PSI)	
FRONT: AVANT:	8165	(18000)	365/70R22.5 (L)	22.5X10.5	724	(105)	S
INT: DIFF.:	10206	(22500)	315/80R22.5 (L)	22.5X9 (OUT) 22.5X8.25 (IN)	655	(95)	D
REAR: TANDEM:	6350	(14000)	365/70R22.5 (L)	22.5X10.5	552	(80)	S

THIS INCOMPLETE VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE. IF COMPLETED IN ACCORDANCE WITH THE INSTRUCTIONS OF INCOMPLETE VEHICLE DOCUMENTS FURNISHED PURSUANT TO CFR PART 568, COMFORMITY TO THE OTHER SAFETY STANDARDS IS NOT SUBSTANTIALLY AFFECTED BY THE DESIGN OF THE INCOMPLETE VEHICLE.

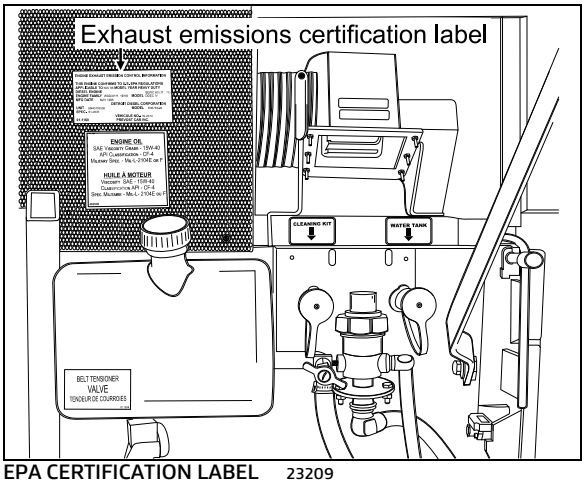
VEHICLE IDENTIFICATION NO.
NO. IDENTIFICATION VEHICULE

#405444

DOT CERTIFICATION PLATE 00016

EPA ENGINE LABEL

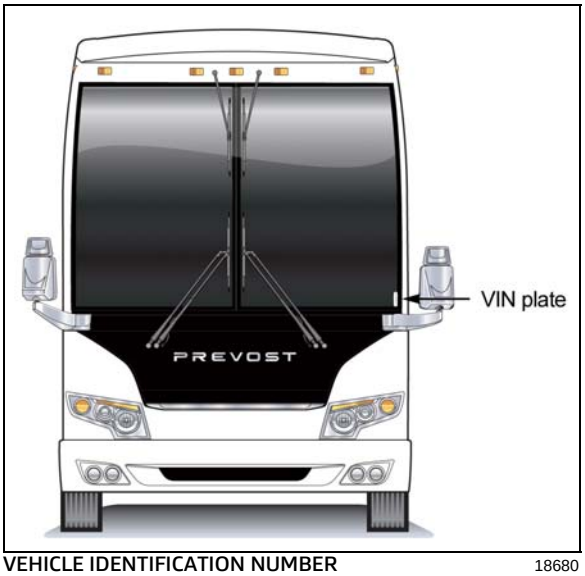
The emissions certification label affixed to the panel over the engine oil reserve tank certifies that the engine conforms to federal and any state exhaust emissions regulations.



EPA CERTIFICATION LABEL 23209

VEHICLE IDENTIFICATION NUMBER (VIN)

The vehicle identification number is stamped on a plate located on the windshield frame pillar (driver's side). The VIN is visible from the outside of the vehicle. Make sure the correct vehicle identification number is given when ordering replacement parts. Using the VIN when ordering parts will facilitate processing. The VIN is also stamped on the DOT certification plate affixed behind the driver's seat.



VEHICLE IDENTIFICATION NUMBER 18680

NOTE

Record the VIN in the vehicle documentation and keep with company records. The VIN will normally be used for vehicle registration, service reference needs and for obtaining vehicle insurance coverage.

COACH FINAL RECORD

The Coach Final Record is a record of all data pertaining to the assembly of the vehicle. This record is shipped to the new customer via a courier company. Retain this record in the company records office for reference and safe-keeping.