SVI 4001 TRACTOR VEHICLE SPECIFICATION

General Specification

The 4001 tractor unit is a purpose designed vehicle for pulling up to three 4000 or 5000 series SVI trailers. Styling is modern with clean sleek lines following those of the 4000 trailers. The tractor can also be used without trailers.

The tractor seats 16 passengers on fibreglass bench seats - see options list for alternatives. Seats are supported on welded aluminium frames. Stainless steel arm rests and hand rails are supplied as standard for passenger comfort and safety. Additionally, for passenger convenience, a stainless steel luggage/stroller rack is fitted over the engine compartment.

Flooring is non slip five bar aluminium chequer plate as standard fitted with a high visibility contrasting edge for the partially sighted.

The vehicle is fitted with a fibreglass roof fastened to a welded, powder coated, stainless steel frame (3CR12).

Overall Dimensions

Length	6600	mm	(21 feet 7 inches)
Width	2100	mm	(6 feet 11 inches)
Height	2510	mm	(8 feet 3 inches)
Wheelbase	3800	mm	(12 feet 6 inches)
Floorheight	330	mm	(13 inches)
Track			
Front	1630	mm	(5 feet 4 inches)
Rear	1672	mm	(5 feet 6 inches)
Weight			
Tare	5920	Kg	(13024 lbs)
Gross	7280	Kg	(16016lbs)

Drivers Cabin

The driver sits centrally on a fully adjustable cushioned seat giving easy access to the accelerator, foot brake and handbrake.
The steering column is adjustable for rake. The drivers illuminated binnacle houses instruments for monitoring all the major vehicle systems.
The drivers cab is fitted with screen demisters - (see options list for higher spec. vehicles).
Sun blinds/visors are fitted to the front screen area for issues of safety.
A pair of large external rear view mirrors are fitted along with a single interior rear view mirror respectively for traffic and passenger observation.
Front and side screen glass is tinted to complement the vehicles colouring.
Cab flooring is five bar chequer plate. The fibreglass interior of the cab is finished in flocote.
A switchable interior light is incorporated into the drivers cabin.

Lighting and Accessories

All vehicle electric's are 12 volts negative earth.
The windscreen is fitted with a single blade pantograph wiper and screen washing facilities.
The exterior of the vehicle is fitted with - head lights, running lights, indicator/stop tail lights and repeater or direction indicator lights.
Interior lighting is fitted to illuminate the passenger area.

Power Train and Steering

The standard vehicle can be fitted with a either a transversely mounted Ford WS1068 6.8 litre V10 compressed natural gas engine producing 202 h.p. and 300 ftlbs. of torque or a Cummins straight 6 diesel engine.

Engine cooling is via. a hydraulically driven fan.

Transmission

Transmission is via. a Sauer Danfoss hydrostatic transmission driving the rear wheels through a reduction gearbox and differential.

Braking

Split circuit hydraulic braking is applied to all four wheels. A mechanical parking brake is fitted to the rear axle.

Steering

Full powered steering is operational on front axle only powered by engine driven hydraulic pump.

Tyres

Michelin 215/75R 17.5 XZE1 on 17.5" X 6" Rims with 6 stud fastenings.

Bodywork/Chassis

Bodywork

All bodywork is moulded in self coloured GRP. The bodywork superstructure is in heavy gauge powder coated stainless steel (3CR12).

Chassis

The chassis is of heavy powder coated mild steel construction with 3CR12 outriggers and bracings.

Non chargeable options

1.Contoured passenger seats
2.Cushioned passenger seats

Chargeable options

Trailer non compatible

1. Four wheel drive
2. Gasoline engine prime mover
3. Tropical drivers cab with air-conditioning
4. Heated and electrically adjustable drivers mirrors

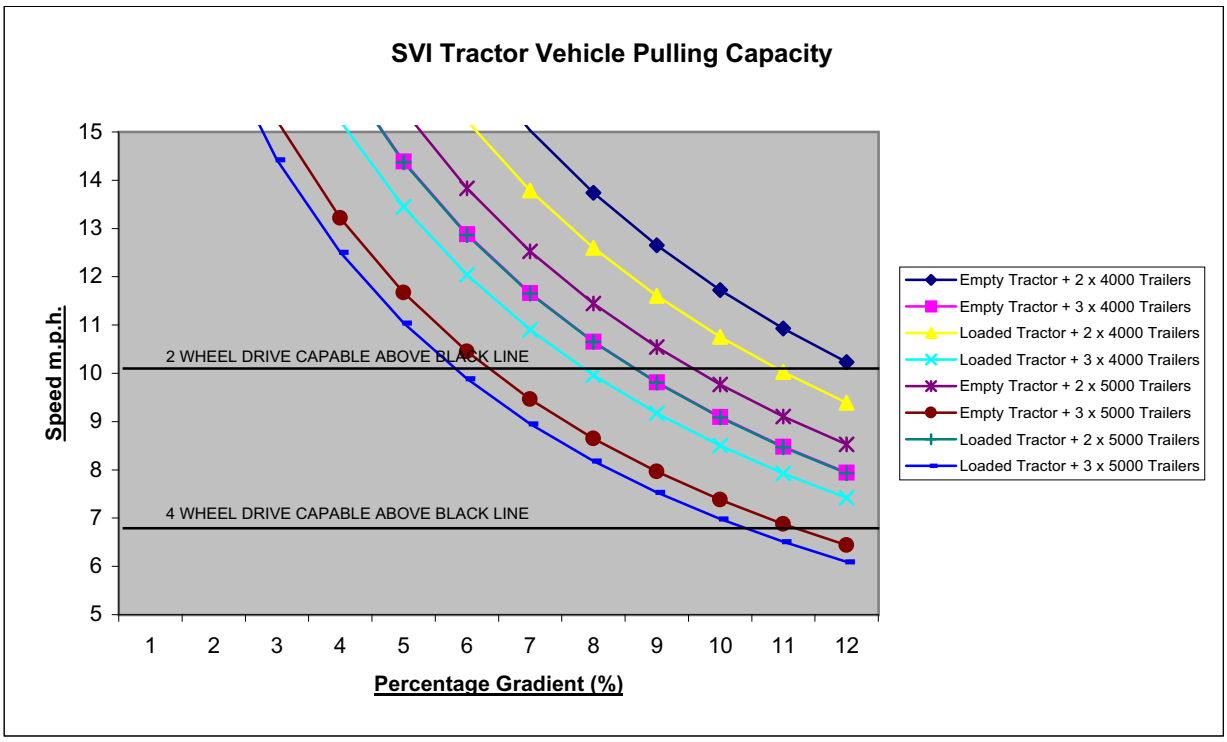
Trailer compatible

1. Air over hydraulic brakes
2. Vacuum over hydraulic brakes
3. ADA Equipped with 2 x 2 passenger flip up seats
4. 16 Channel wireless microphone and receiver
5. Metallic body panel finish or finishes with more than two colours.
6. Step Lights
7. Roof Spot Lights (Per light)
8. Safety Chains (Entrance)
9. Speakers (Water resistant) 2 off
10. Speakers (Water resistant) 4 off
11. Rain Curtains
12. Passenger signal touch tape - emergency stop buttons
13. Flashing beacon (Xenon)
14. Altro flooring
15. Heavy duty rubber flooring
16. Rear polycarbonate screen

Performance

All data subject to road conditions

Vehicle maximum speed	25 K.p.h. (15 m.p.h.)	
Turning Radius	6 metres (19 feet 8 inches)	
Maximum up or down grade	12%	
Vehicle tractive power (2 Wheel drive)	22100N (4956 lbs)	Minimum value μ = 0.6
Vehicle tractive power (4 Wheel drive)	35310N (7920 lbs)	Minimum value μ = 0.6



Example :

I want to pull 3 x 4000 28 passenger series trailers up a 10% slope. What performance can I expect and do I need a 2 wheel drive or 4 wheel drive Tractor.

1.From graph above pick out the 3 x 4000 trailer performance lines. This can be the line or the line for running with empty or loaded tractor units respectively.

2.Decide whether you will always run with :-
A : A fully loaded tractor and trailers or
B : An occasionally empty tractor and fully loaded trailers

For A select line and for B select line

For this example we will select line B. Draw a line vertically from the 10% point on the percentage gradient scale and mark where it intersects your chosen trailer performance line. Now move vertically down this line until you meet the next horizontal black line on the graph. This line tells you whether you need a 2 wheel drive or 4 wheel drive tractor. In this example it would be a 4 wheel drive tractor giving a speed of 8 m.p.h. up a 12 % slope.