



RC: 770627

WONDERWHEELS AUTOMOBILES LIMITED



TYPE 1 ALS BASIC AMBULANCE – TOYOTA HIACE

TECHNICAL SPECIFICATION

AMBULANCE TYPE: I

Comply with EN1789 standards

1 VEHICLE

Engine Type - Piston
Camshaft DOHC with VVT
Engine Location Front
Valves/Ports per Cylinder 4
Engine Size (cc) (cc) 2694
Compression ratio 9.6
Engine Size (L) (L) 2.7
Engine Code 2TR-FE
Induction Aspirated
Power 111kW @ 4800rpm
Engine Configuration In-line
Torque 241Nm @ 3800rpm
Cylinders 4
Power to Weight Ratio (kW/t) 55.1

FUEL

Fuel Type Petrol - Unleaded ULP
Fuel Average Distance (km) 565
Fuel Capacity (L) 70
CO2 Emission Combined (g/km) 294
RON Rating 91
Greenhouse Rating 4
Fuel Delivery Multi-Point Injection
Air Pollution Rating 8.5
Method of Delivery Electronic Sequential
Green Star Rating
Fuel Consumption Combined (L/100km) 12.4

DIMENSIONS

Length (mm) 5380
Tare Mass (kg) 2015
Width (mm) 1880
Kerb Weight (kg) 2080
Height (mm) 2285
Gross Vehicle Mass (kg) 3150
Wheelbase (mm) 3110
Payload (kg) 1085

STEERING

Rack and Pinion

2 ELECTRICAL SYSTEM AND COMPONENTS

- All Circuits will be wired with high temperature resistant PVC insulated thin wall automotive cables.
- All wiring under the vehicle will be routed in polyamide corrugated tube, working temperature range -40° C to +150° C
- All circuits will be separately fused, suitably indicated and grouped into a common control box
- All wiring passed by oxygen compartment has been specially covered with metal case
- All electrical systems and components will be easy accessible through access panels for service and maintenance

Battery

Extra 12 Volt dual dry cell battery system provided and will be charged during the vehicle running condition. There will be light indicator Green provided to show the battery is on during the ignition on.

YOUR TRUST IS OUR GOAL!

Battery selector switch ON/OFF provided right side near to the driver seat base for easy access. Vehicle main battery will be not connected to any of patient compartment and it will be used only for vehicle.

Driver Control Switch Console

The drive switch control console has been specially designed and positioned right side of the driver side. It is easy accessible for both passenger and driver. Illumination control from the headlight switch.

- The designed console includes all the control switches of the patient compartment lights, Siren, Warning lights, Battery indication, voltmeter, silent intercom, ammeter, master switch for patient compartment and emergency lights and AC/Heater switch for the rear compartment.
- Warning lights for the doors (both side and rear patient compartment) if the doors are open it will be indicating on the front side with amber flash light.

Rear Control Switch Console

This rear compartment switch panel is designed as same as the front control panel will be installed in the rear action area for easy access. It is used to control the patient compartment

- Switches control includes for Patient area roof lights, vacuum system, action area lights, ventilation fan, intercom, medical equipment sockets and 3 dummy switches for future use
- Black color switches and one red color switch for Vacuum system
- All the switches will not be activated unless the master switch is ON in the front control panel

Inverter charger

220V, 16 ampere shoreline inlet installed exterior behind the driver door along with 15m cable cord provided. The inlet connected to the 220-240V power outlets in the patient compartment.

Power sockets

The patient compartment will be equipped with both 12V and 220-240V power sockets for the usage of medical equipment and other electrical equipment

- Furnished with total 3 no's of UAE standard 12V outlets with receptacles in patient compartment
- Furnished with total 3 no's of UAE standard 220-240V outlets 2 in left side action area and 1 in the right side with power indication.

Shoreline Inlet

220V, 16 ampere shoreline inlet installed exterior behind the driver door along with 15m cable cord provided. The inlet connected to the 220-240V power outlets in the patient compartment.

Exterior Lighting Brand:

- Front Flood lights white (2)
- Front Flashing red/white/Blue (2)
- Top left and right Side floodlight (science Light) white (4)
- Rear Flashing light - red/white/Blue (2)
- Rear floodlight (science Light) white (2)
- Top left and right Side Flashing light - red/white/Blue (4)

- Front Grill Flashing light - red/white/Blue (2)

Interior Lighting

- Roof LED lights dual intensity in right side seat area (3)
- Right side over seat lights will automatically turn on during the rear door open
- Roof LED lights dual intensity in right side seat area (3)
- Additional LED lights 2 in primary area and 2 in seats with spate switch control
- Switches for lights in rear control panel
- Map reading light installed in the action area

Polyurethane thermal Insulation in the patient compartment for all sides and roof.

Siren and P/A system

Electronic siren remote amplifier with push button functions. Two 100 watts' speaker installed under the front bumper of the vehicle.

Compact Refrigerator

High quality mini refrigerator installed in a secured place in the patient compartment.

3 AIR CONDITIONING

Separate heavy duty A/C in the rear or patient compartment with separate condenser. Evaporator and blower fan installed in the rear compartment

4 PATIENT COMPARTMENT INTERIOR CONSTRUCTION

4.1 Floor:

18mm water proof (marine) plywood with heavy duty vinyl flooring completely sealed with raised edges to the wall at least 3 inches. Antistatic, anti-slippery and liquid proof easy to clean.

4.2 Ceiling:

Single roof made of fiberglass/GRP composite panel material integrated with ceiling roof handle and IV hooks

4.3 Partition:

Bulk head made of Fiberglass/GRP partition between driver and patient compartment with a sliding clear glass window door.

4.4 Insulation:

Polyurethane thermal Insulation in the patient compartment for all sides and roof.

Storage Cabinets:

- Made of PVC integral which is water proof and heat resistance
- Medical equipment storage cabinet at the front side

- Roof cabinet on both left and right sides with upside open doors
- Right side middle cabinet between the seats
- EMT or Doctor seat with side arm rest and head rest at the front side near to the partition facing rear side, 2-point safety seat belt integrated.
 - Two chairs with side arm and head rest, safety belt integrated

Grab handle:

- One small handle mounted on the rear entrance door at the right side

Stretcher platform:

- Adjustable Stainless steel ramp for main stretcher loading support

IV Hook:

- Installed above the left side cabinet with movable IV holder near to patient (4)

Central Oxygen System:

- Heat resistance Oxygen hoses connection from oxygen cylinder to quick connects
- 2 no's 10L Oxygen cylinders
- 2 no's Flowmeter with humidifier
- 2 no's Regulator with pressure gauge
- 2 no's of Oxygen outlets or quick connect UAE standard

Central Suction System:

- 12V suction motor diaphragm type
- Suction regulator
- Suction bottle wall mounted 2L

Intercom

Intercom between driver and patient compartment

Miscellaneous

- Sharp container approved model
- Trash container approved model
- Glove box medical
- Flash light with batteries
- Sanitizer mounted
- Fire extinguisher (2L) one in patient compartment and one in driver compartment
- Safety catch net
- Reflective vest for crews (4)
- Triangle reflective (2)

LIVERY DESIGN:

- As per requirement

6 MEDICAL EQUIPMENT

Main stretcher (qty 1)

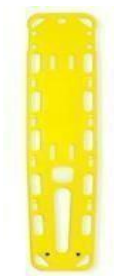
Brand: Cross over T stretcher Spencer Italy

- ☒ Length: 1970 mm
- ☒ Shortened length: 1650 mm
- ☒ Width: 570 mm
- ☒ Weight: 45 kg
- ☒ Load capacity: 250 kg
- ☒ Wheels: 200 mm, front and rear auto directional



- ☒ Brakes: posterior
- ☒ Loading height: from 520 to 700 mm
- ☒ Reclining sidebars - Length: 680 mm
- ☒ Reclining sidebars - Height: 200 mm

Spine Board (qty 1)



Brand: Laedral Back strap spine board,
Norway/china ☒ With straps

Head Immobilizer (qty 1)



Brand: Speed block starter pack Head
Immobilizer ☑ Base dimensions 365x260x20 mm

Stair chair



Brand: SPENCER 406 AMBULANCE CARRYING CHAIR Italy

- ☑ Length 840 ± 10 mm
- ☑ Width 410 ± 10 mm
- ☑ Height opened 940 ± 10 mm
- ☑ Height folded 770 ± 10 mm
- ☑ Thickness folded 235 ± 10 mm
- ☑ Rear wheels ø 200 mm
- ☑ Materials Steel/Al/PVC
- ☑ Weight 10 kg ± 0,3
- ☑ Loading capacity 150 kg

Automated External Defibrillator (qty 1)

Semi-Automatic defibrillator
Adult and pediatric 150 joules energy
Adult and child pads
8 years' warranty
125 shocks or 8 hours' continuous operation



Cervical collars



Brand: Laerdal stiff neck cervical collar set

☑ Adult and pediatric

Portable oxygen cylinder



Brand: Alcan India

☑ With carrying bag

☑ Included with regulator, flowmeter and humidifier

☑ 2.5L capacity

☑ Bag valve mask with tubing's for adult and child

Electric Portable Suction unit (qty 1)



Brand: Laerdal 78000003, LSU with Reusable Canister Norway/china

- ☑ Vacuum range 80kPa
- ☑ Free flow suction 24L/min
- ☑ Power requirement 12V and 220V
- ☑ 800L vessel capacity
- ☑ Noise level 70 dB

Sphygmomanometer (qty 1)



Brand: Spencer Italy

- ☑ Made of ABS and special material
- ☑ Wall mounted
- ☑ Back storage basket for cuff storage
- ☑ Different size cuffs 3 at least

7 CONSUMABLES



Emo control elastic bandage
 Gauze bandage different sizes
 Sterile adhesive dressing
 Pen light
 Magill forceps
 Teeth screw driver
 Tongue holding forceps
 Oxygen tube 120cm
 Mixed guedel airways box of 10
 Oxygen therapy mask adult
 Face mask small size 2 no's
 Silicon resuscitator bag adult with mask

8 ACCESSORIES

- ☒ 1 × Sharp container
- ☒ 1 × Waste container
- ☒ 1 × Biohazard yellow bags
- ☒ 1 × Standard vehicle tool kit
- ☒ 2 × Reflector vest for crews
- ☒ 2 × Triangular warning reflector
- ☒ 2 × Protective helmet
- ☒ 1 × Fire blanket
- ☒ 2 × Fire extinguisher
- ☒ 1 × Safety catch net
- ☒ multipurpose scissors
- ☒ Emergency cutting tool
- ☒ Digital thermometer
- ☒ Stethoscope
- ☒ Spot light with batteries

9 DOCUMENTS

- ☒ User manual for ambulance



☑ User manual for all major equipment

Terms & Conditions:

1. Delivery: Delivery is between 60-90 days.
2. Warranty: 1 year or 100,000 km whichever comes first and 1 year for interior Ambulance fabrication and medical equipment only, except wear and tear items.

