

Ergonomic Design:

Workspace Layout, Placement and Accessibility

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GENERAL

General

Shoreline power input is located between 1016 and 1371.6mm from the ground

PATIENT COMPARTMENT SEATING LAYOUT

Seated and restrained 5th percentile female or 95th percentile male in the primary attendant seat can reach a restrained supine 95th percentile patient's body from the crown of the head to the kneecap

Seated and restrained 5th percentile female or 95th percentile male in the airway attendant seat can reach a restrained patient's head, neck, and upper torso with both hands

Airway attendant seat is located at the head of the stretcher and centred in relation to the middle of the stretcher's width (tolerance of ± 75 mm)

WASTE AND SHARPS DISPOSAL LAYOUT

Disposal units are located within reach of a 5th percentile female from a seated and restrained position



Waste and sharps disposal units are located in the immediate area where sharps are used or placed

STRETCHER CLEARANCE

Foot of Stretcher

Minimum clearance of 205 mm between the rearmost part of the stretcher and the nearest obstruction

Side of Stretcher

A minimum 250 mm wide clear aisle is provided between the main stretcher and the face of the primary and airway attendant seating locations

IV HOLDERS

IV holder is not placed directly over the patient's head

ACTION WALL

General

Located where it is accessible and within the functional field of view of the primary and airway attendant seats while in a seated and restrained position

Switches

Switches are accessible from both the primary and airway attendant seats: patient compartment light switches and the exhaust fan

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Switches are accessible from either the primary or airway attendant seat: main oxygen outlet and controls; suction outlet and controls (if prescribed); attendant control console; thermostat for HVAC system(s); and reading light

OXYGEN OUTLETS

Safe clearance is provided and includes space for the flow meter, humidifier bottle, etc.

If an additional outlet is installed on the ceiling of the patient compartment above the stretcher (located in the first third from the foot of the stretcher), it protrudes no more than 20mm from the ceiling

Location of oxygen ports and outlets allows a 5th percentile female or a 95th percentile male to readily access and use oxygen for patient care while not introducing risks to the safety of the patient or the paramedic

SUCTION SYSTEM

Location of suction outlet is readily accessible to a 5th percentile female or a 95th percentile male in a seated and restrained position while not introducing risks to the safety of the patient or the paramedic

INCUBATOR RECEPTACLES

Two 12 V polarized outlets are installed in the ambulance, of which one outlet is located near the head end of the primary stretcher

The information on this infographic is adopted from the Canadian Standard for Ergonomic Design of Ambulances and Related Equipment, CSA D500:20.
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RADIO MOUNTING SPACE

Remote handset mounting space is located on or near the primary attendant action wall, and is accessible to a 5th percentile female seated and restrained in primary attendant seat

FIRE EXTINGUISHER

Fire extinguisher is accessible without entering the ambulance

