

## Article Overview

The Tesla Model X distribution box, also known as the front junction or high-voltage distribution unit, manages the vehicle's electrical power distribution and connects key high-voltage components.

## Function and Overview

The distribution box in the Tesla Model X serves as a central hub for electrical power, routing high-voltage electricity from the battery pack to various systems, including the electric motors, onboard chargers, and auxiliary electronics . It ensures safe and efficient power management, protecting circuits with integrated fuses and relays. This component is critical for both vehicle operation and safety, as it coordinates the flow of electricity throughout the car.

## Location

In the Model X, the distribution box is typically located at the front of the vehicle, often referred to as the front junction box. It is connected to the main high-voltage harness and interfaces with multiple subsystems, including the battery, inverter, and control modules . Accessing it usually requires careful removal of front panels or fascia components, as outlined in Tesla service manuals .

## Wiring and Connectivity

The distribution box contains multiple connectors and terminals for high-voltage and low-voltage circuits. Wiring diagrams indicate that wires are color-coded and may include stripes to denote specific functions (e.g., BK/WH for black with white stripe), . The box integrates relays, fuses, and junction points to manage power distribution safely and efficiently.

## Replacement and OEM Parts

OEM replacement units for the Model X distribution box are available through suppliers and auto recycling shops. Listings show that these units may come with harnesses and are compatible with Model X vehicles from 2015 to 2020 . When replacing the unit, it is essential to follow Tesla's safety protocols due to the high-voltage nature of the component. Installation should only be performed by qualified personnel or under professional guidance.

## Maintenance Considerations

While the distribution box is generally reliable, signs of malfunction may include electrical faults, warning lights, or failure of high-voltage systems. Regular inspection during service intervals can help detect

## Distribution box model x

corrosion, loose connections, or damaged wiring. Tesla service manuals provide detailed procedures for inspection, removal, and reinstallation. In summary, the distribution box in the Tesla Model X is a high-voltage junction unit that centralizes power distribution, ensures safety, and connects critical electrical systems. Proper handling, OEM replacement, and adherence to service guidelines are essential for maintaining vehicle performance and safety.

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Distributors - Distribution box. Item no. 2008852 Distribution box, 12 division units, with terminal strip, polycarbonate

The Model X has an EPA size class as an SUV, and shares around 30 percent of its content with the

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A distribution box, also called an electrical distribution box, distributes incoming power to

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