

Article Overview

A removable mounting plate is an internal panel in a distribution box that allows easy installation, wiring, and maintenance of electrical components.

Purpose and Function

A removable mounting plate, also called a back panel, subpanel, or mounting board, serves as a stable mechanical base for electrical components such as circuit breakers, contactors, terminal blocks, relays, power supplies, and DIN rails inside a distribution box. It prevents the need to drill directly into the enclosure wall, improving serviceability, layout flexibility, and safety during assembly and maintenance .

Materials and Construction

Mounting plates are typically made from galvanized steel, stainless steel, aluminum, or non-metallic materials, depending on load requirements, corrosion resistance, and grounding needs. Galvanized or painted steel is common for general use, stainless steel suits corrosive environments, and aluminum reduces weight while improving machinability .

Installation and Advantages

Removable plates are fastened using screws, studs, brackets, or support rails. They can be pre-populated with components outside the enclosure, wired, tested, and then installed back into the box. This staged assembly approach speeds up panel building, reduces errors, and simplifies rework . Some plates are perforated for flexible component placement, while solid flat plates provide a professional, robust surface for fixed layouts .

Applications

Removable mounting plates are used in indoor and outdoor distribution boxes, including NEMA or IP-rated enclosures. They are suitable for industrial, commercial, and residential electrical installations, offering easy installation, wiring, and maintenance. Outdoor boxes often feature galvanized plates with weatherproof and dustproof seals, ensuring protection against rain, dust, and UV exposure .

Key Considerations

When selecting a removable mounting plate, consider:

- o Enclosure size and hole pattern to match the box.



Removable mounting plate for distribution box

- o Mechanical load to support all components without flexing.
- o Electrical bonding for metal plates.
- o Environmental conditions such as humidity, chemicals, or UV exposure.
- o Assembly workflow, as removable plates improve efficiency for panel builders . Removable mounting plates are a practical choice for anyone needing flexible, safe, and efficient electrical panel assembly. They enhance both the installation process and long-term serviceability of distribution boxes.

The ENP0905NAV1 is compatible with devices like Apple TV, Roku, Amazon Fire

PZ30 Plastic Electrical Distribution Box (MCB distribution box) installation is divided into: wall-hung installation (surface mounted);

About this item Package includes: 4 x 304 Stainless Steel Flat Pin Spring Latch It is made of high quality

What are the best mounting plate electrical boxes products in 2026? We analyzed 1,112

Practical, removable back panel: The box contents include a removable mounting plate made of galvanised steel. This plate

The steel mounting plate contributes to speeding up the assembly of the terminal box since it can be machined easily and equipped

The complete solution for a small telephone distribution point. This wall-mountable IDF box includes a 10-pair disconnect module

4TBO851190C0100 ABB AP1MHP APO 1 MOUNT.PLATE (PERTINAX) compare USD13.78 Out of Stock - Backorder

32 amp Distribution Board includes cover, frame, base box, guide rail, neutral copper bar and earth copper

A removable mounting plate is fastened to the enclosure using screws, studs, brackets, or

The purpose of a mounting plate is to provide a secure, flat, and often removable surface for component installation inside an

NEMA Outdoor Electrical Box (15.7" x 11.8" x 7.9") Metal Enclosure, Universal IP Waterproof Equipment Box w/DC Fan & 12V



Removable mounting plate for distribution box

Metal Electrical Box Covers & Device Plates - Made in the USA Durable galvanized steel covers and

Convenient DIY Installation: The removable mounting back plate and movable dispersed installation method make it easy to install

Mounting plates as additions to enclosures and cases where a mounting plate is not included in the scope of supply. Partial mounting

Are your switches and outlets sticking out from the because of a protruding electrical wall box? Find deep switch plate cover options

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