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2007 JEEP Grand Cherokee SRT-8 OEM Service and Repair Workshop Manual

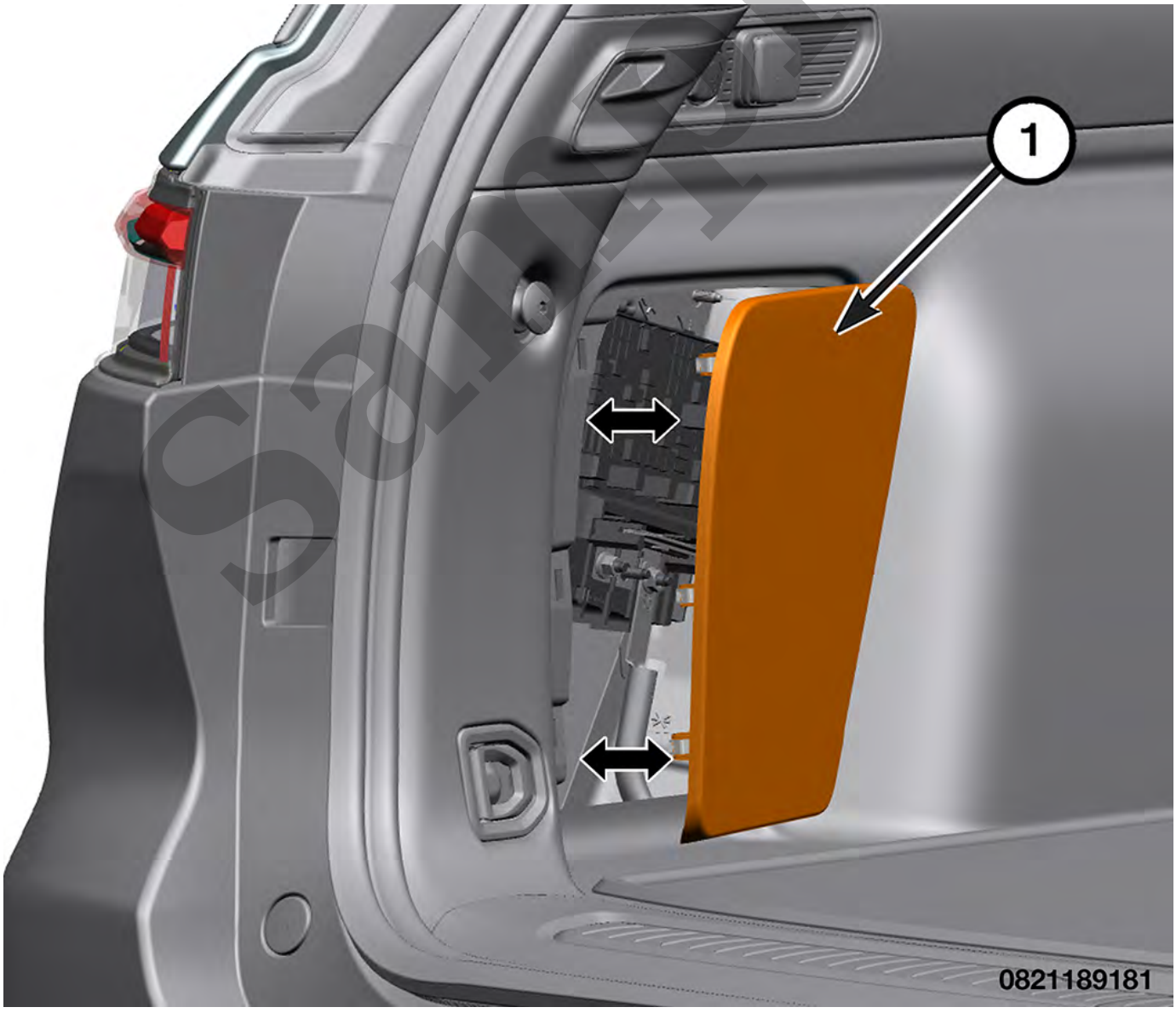
Go to manual page

Left Quarter PDC - PHEV

LEFT QUARTER PDC - PHEV

REMOVAL

1. Disconnect and isolate the negative battery cable(s) (Refer to Electrical/Battery System/Standard Procedure).



YOUR CURRENT VEHICLE

Passenger Floor PDC - Base

PASSENGER FLOOR PDC - BASE

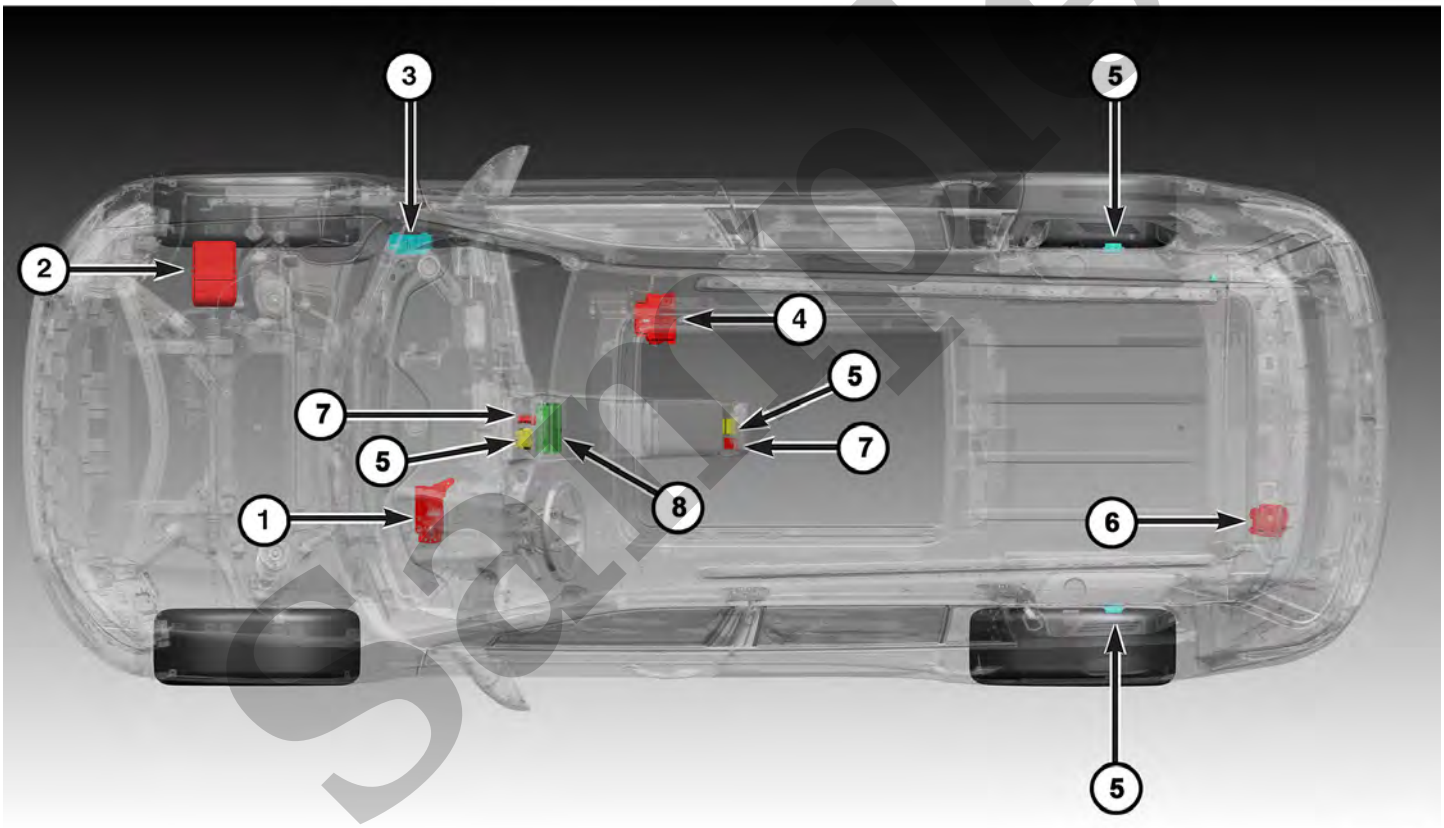
REMOVAL

1. Disconnect and isolate the negative battery cable(s) (Refer to Electrical/Battery System/Standard Procedure).
2. Remove the passenger front seat (Refer to Body/Seats/SEAT/Removal and Installation)(Refer To List 1).
3. Remove the auxiliary battery cover.

Power Distribution Systems

POWER DISTRIBUTION SYSTEMS

DESCRIPTION



The Power Distribution system can consist of the following components:

Component Index

1.	Power Distribution Center (PDC) - Dash
2.	Power Distribution Center (PDC) - Engine
3.	Body Control Module (BCM)

The power outlet base or receptacle shell is connected to ground, and an insulated contact in the bottom of the shell is connected to battery current. The BCM provides an ignition relay control input to the PDC when the ignition is in the ON or ACC positions. The PDC then provides the power outlet with DC battery voltage.

The direct battery supplied power outlet provides power as long as the battery provides the power to the vehicle electrical system.

The direct battery supplied power outlet is capable of providing at least 15 amps of continuous DC.

The switched power outlet is controlled by the ACC relay located in the PDC. This type of switched power outlet provides power when the vehicle is operating in the Power Accessory Delay (PAD), ACC, RUN, Auto Stop/Start and remote start active modes. The switched power outlet also is capable of providing at least 15 amps of continuous DC.

Each outlet is fused individually and works independently. The grounding path for each outlet is not shared with other vehicle components.

115 Volt Outlet

The interior outlet detects activity when plugged into. When either outlet is plugged into, the other interior outlet will also become active and a Local Interface Network (LIN) bus message is sent to the IPC for illumination.

Remote Dual Universal Serial Bus (USB) Charge Only Port

Component Index

This vehicle is equipped with a USB only 5v charging port. Like the standard power outlets on this vehicle, the USB charge only port receives its illumination from a software driver located within the IPC.

Wireless Charging Pad Module

Component Index

The 12 volt ignition fed Wireless Charging Pad Module is an inductive charging device used to charge one cellphone unit, equipped with a special interface using an electromagnetic field to transfer energy through electromagnetic induction which supports the wireless power transfer. The Wireless Charging Pad Module has a Light Emitting Diode (LED) indicator to inform the user about charging status.

The Wireless Charging Pad Module is connected via LIN bus to the BCM. The BCM is the master node.

The Wireless Charging Pad Module operates in two basic modes: OFF (Sleep) and ON (Active). The module enters OFF mode, when it stops receiving LIN input messages from the BCM. When the BCM wakes the module with a commanded ignition state signal, the module exits OFF mode, and enters ON mode.

While in ON mode, the Wireless Charging Pad Module performs one the following functions that are defined as states:

Fuse Arrays

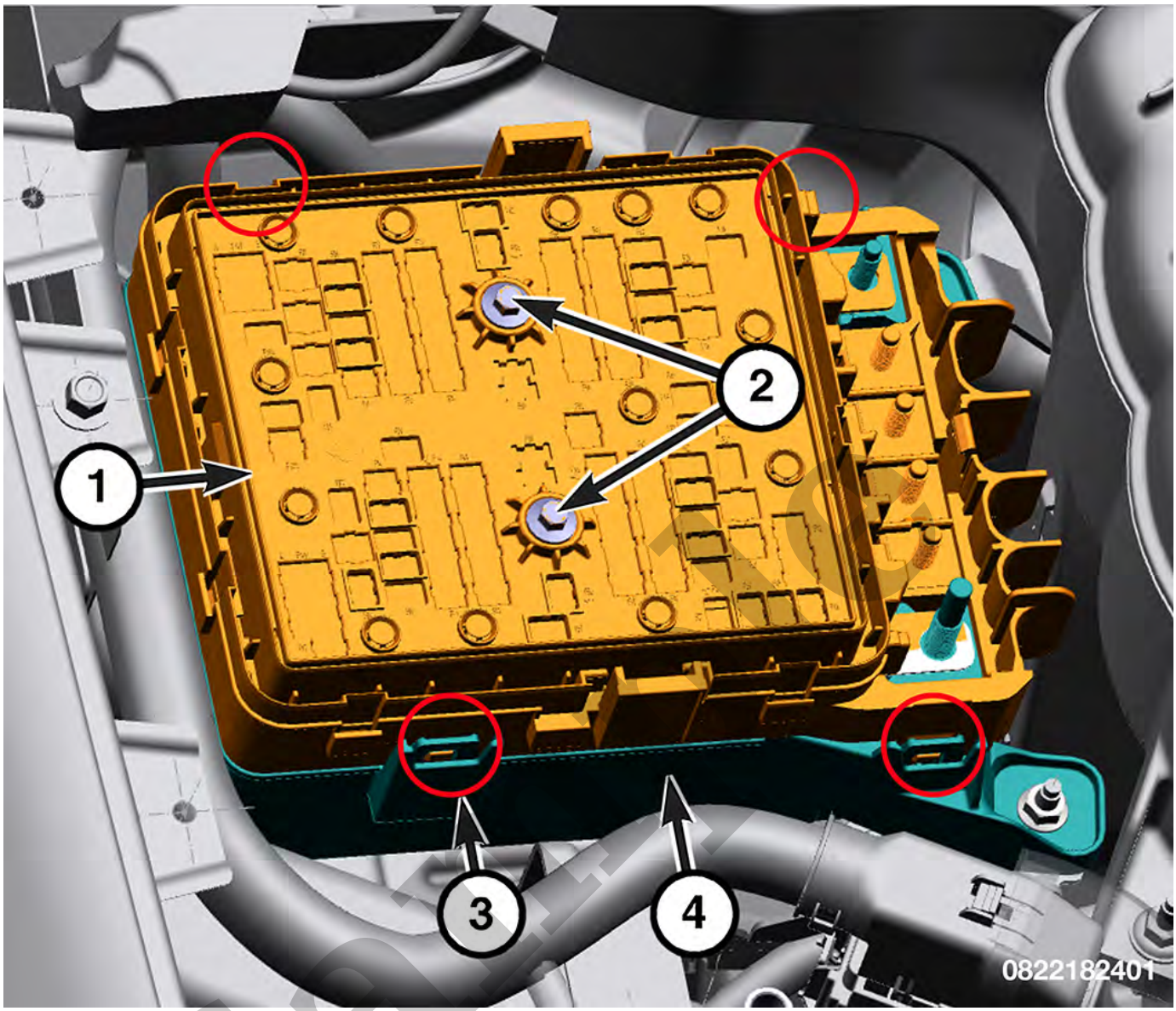
FUSE ARRAYS

The fuse array is connected to the Engine Compartment Power Distribution Center (PDC) and is a serviceable component. The following procedure details how to remove the upper and lower fuse array components from the PDC.

REMOVAL

Upper Fuse Array

1. Disconnect and isolate the negative battery cable(s) (Refer to Electrical/Battery System/Standard Procedure).



1 - Upper PDC
2 - Captive Screws
3 - PDC Latches
4 - Lower PDC

2. Release the PDC latches and separate the upper and lower PDC.

Power Inverter Module

POWER INVERTER MODULE

REMOVAL

1. Disconnect and isolate the negative battery cable(s) (Refer to Electrical/Battery System/Standard Procedure).
2. Remove the cargo load floor (Refer to Body/Interior/LOAD FLOOR, Cargo/Removal and Installation).

YOUR CURRENT VEHICLE

115 Volt Outlet - Rear

115 VOLT OUTLET - REAR

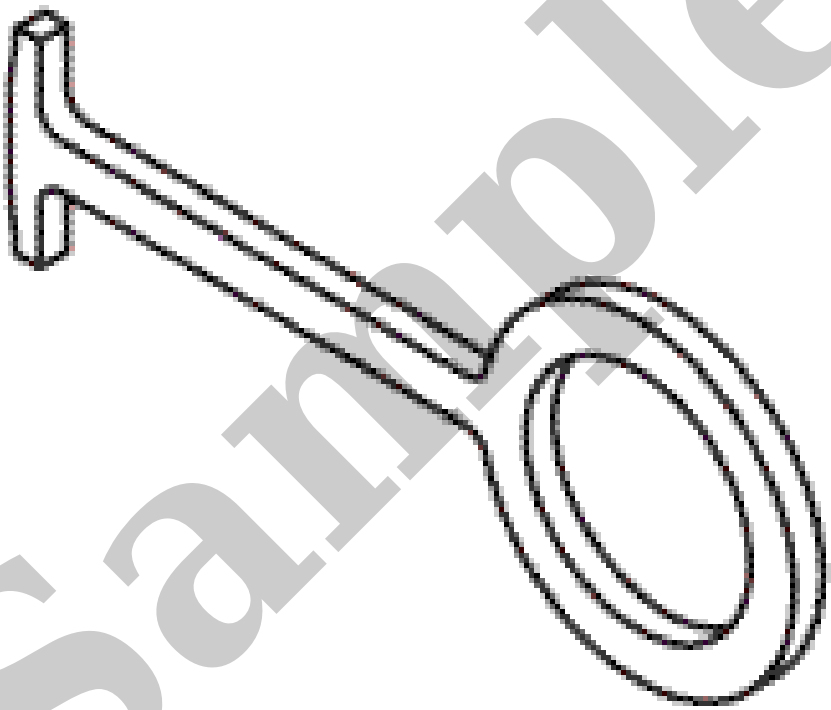
REMOVAL

1. Disconnect and isolate the negative battery cable(s) (Refer to Electrical/Battery System/Standard Procedure).
2. Remove the floor console end cap (Refer to Body/Interior/CONSOLE, Floor, End Cap/Removal and Installation)(Refer To List 1).

1 - 12 Volt Power Outlet Socket
2 - Mounting Ring

2. Inspect the retaining bosses inside the power outlet socket and note their position.
3. Insert Remover, Power Outlet

Remover, Power Outlet



into the retaining bosses of the power outlet socket.

4. Pull out the power outlet socket through the mounting ring by gently rocking the tool.
5. Disconnect the wire harness connector.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.