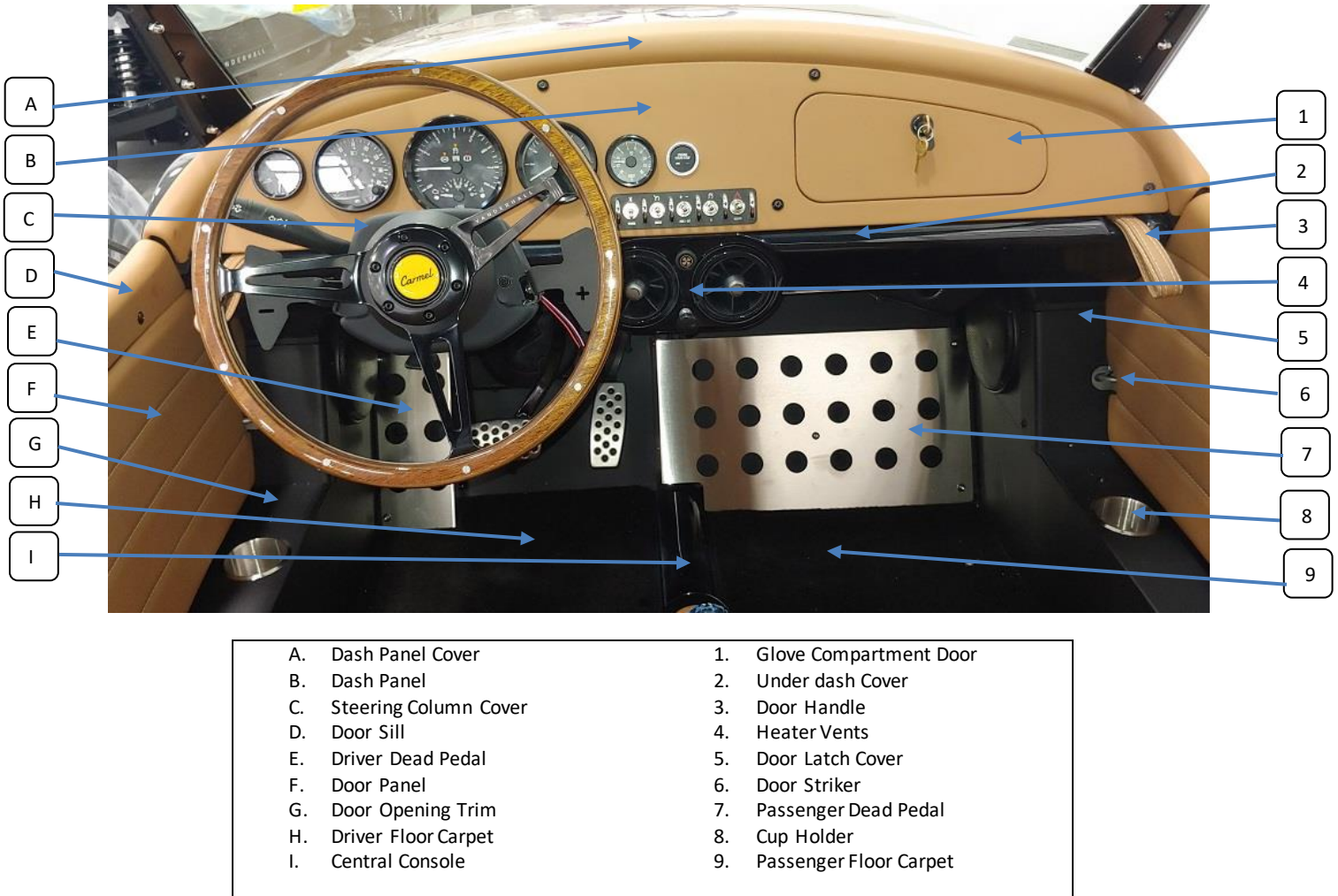


2020 Carmel Service Manual

Interior Trim

2. Interior Trim

2.1. Interior Trim and Paneling



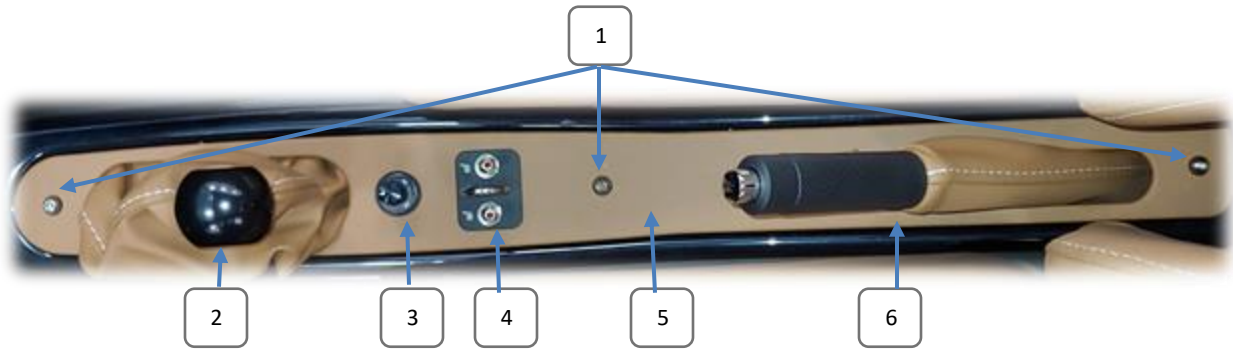
2020 Carmel Service Manual

Interior Trim

2.2. Central Console

2.2.1. Central Console Plate

The Central Console Plate [5] is an aluminum plate wrapped with vinyl or leather, is located inside the vehicle's cabin, between the two seats covering the Central Console, its purpose is to hold important interior components like the Transmission Shifter assembly [2], the Bluetooth knob [3], the heater seat switch set [3] and the e brake handle [6]



2.2.1.1. Repair Instructions

2.2.1.1.1. Tools

5 mm Hex key Socket

2.2.1.1.2. Removal

- Remove the three (3x) M6x20mm Socket button bolts [1]
- Apply the E-brake [6]
- Set the transmission shifter lever [2] in neutral position
- Lift up the Central Console Plate [5] 6 inches
- Locate and disconnect the Bluetooth Knob [3] and the Heater switch set connectors
- Remove the Central Console Plate [5]

2.2.1.1.3. Installation

- Apply the E-brake [6]
- Set the transmission shifter lever [2] in neutral position
- Slide the Central Console Plate [5] over the Transmission Shifter knob and the e brake handle
- Locate and connect the Bluetooth Knob [3] and the Heater switch set electrical connectors
- Set the Central Console Plate on the right position using the holes for the M6x20mm Socket button bolts as reference to align it properly (Make sure all the wiring for the Bluetooth knob and heater switch stay underneath the Central Console Plate)
- Screw in the three (3x) M6x20mm Socket button bolts [1]

2020 Carmel Service Manual

Interior Trim

2.2.2. Central Console

The Central Console is the plastic part located right in the middle of the cabin between the two seats, this part is used as a housing for the Shifter lever, and the emergency brake handle, also the central console covers and protect the wiring and cables needed for the shifter, e brake, heater seats and Bluetooth device operation.



2.2.2.1. Repair Instructions

2.2.2.1.1. Tools

Phillips screwdriver

2.2.2.1.2. Removal

- Remove the Central Console Plate REFER TO INTERIOR TRIM >CENTRAL CONSOLE PLATE
- Remove the Passenger Side Dead Pedal REFER TO INTERIOR TRIM >PASSENGER DEAD PEDAL
- Remove the three (6x) Philips screws with snap stud [1]
- Apply the E-brake
- Set the transmission shifter lever in neutral position
- Remove the Central Console

2.2.2.1.3. Installation

- Install the Central Console into the right position, align the hole on the central console with the hole in the chassis.
- Apply the E-brake
- Set the transmission shifter lever in neutral position
- Install the three (6x) Philips screws with the Snap stud [1]
- Install the Passenger Side Dead Pedal REFER TO INTERIOR TRIM >PASSENGER DEAD PEDAL
- Install the Central Console Plate REFER TO INTERIOR TRIM >CENTRAL CONSOLE PLATE

2020 Carmel Service Manual

Interior Trim

2.3. Seats

The Vanderhall Carmel Seats are a lightweight Aluminum frame with several densities of foam for support and comfort. The seats are upholstered with either Leather, Vinyl or a combination of both materials. All versions of seat are equipped with electronic seat heaters.

2.3.1. Seat Hardware

2.3.1.1. Repair instructions

2.3.1.1.1. Fastener Specifications

Application	Specifications	
	Metric	English
Seat Rail to Chassis	20 Nm	15 ft. lb.
Seat Rail to Seat Frame	20 Nm	15 ft. lb.

2.3.1.1.2. Tools

- 5 mm Hex key Socket, 125mm in length

2.3.1.1.3. Removal

- Slide the seat forward fully
- Disconnect the wire for the seat heater
- Slide the seat back fully
- Remove the two front bolts from the seat rail
- Slide the seat forward about 3 inches until the rear mounting bolts are visible through the seat back and seat bottom sections
- Insert the Hex key through the opening between seat back and bottom cushions



- Remove both Rear bolts

2.3.1.1.4. Installation

- Place the seat on the chassis
 - Ensure the heated seat wires are clear of the seat rails
- Align the front seat rail bolts and tighten front bolts with fingers
- Slide seat forward until the rear mounts are visible through the seat back and bottom cushions
- Insert and tighten rear mounting bolts
 - Insert the Hex key through the opening between seat back and bottom cushions



- slide seat fully forward
- connect the heated seat wiring
- slide seat fully back

tighten the front mounting bolts

2020 Carmel Service Manual

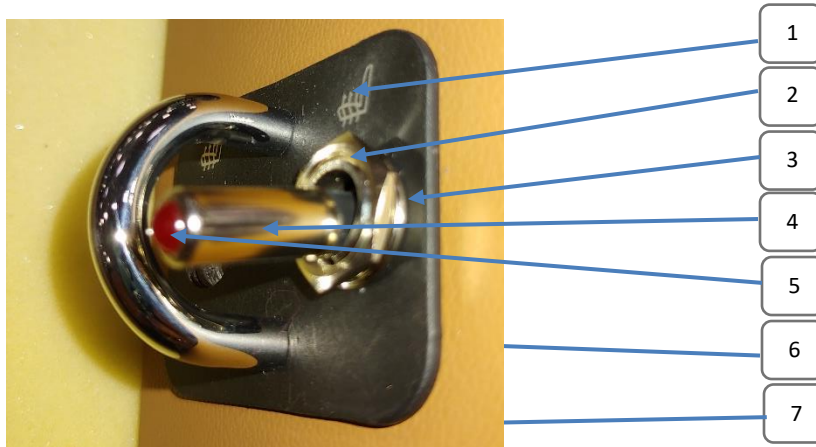
Interior Trim

2.3.2. Seat Heating

2.3.2.1. Seat heating Pads

The seat heating pad is integrated on to the seat frame upholstery and may not be service separately.

2.3.2.2. Seat heater Switch



Call Out	Component Name
1	Heated Seat Switch Plate
2	Heated Seat Switch retainer nut
3	Heated Seat Switch retainer washer
4	Heated Seat Switch toggle switch
5	Heated Seat Switch on light
6	Heated Seat Switch guard
7	Central Console Plate

2.3.2.2.1. Tools

- 14mm long socket and ratchet

2.3.2.2.2. Removal

- Remove the Central Console Plate [7] REFER TO INTERIOR TRIM >CENTRAL CONSOLE PLATE
- Pull Central Console Plate out enough to access Heated Seat toggle switch from both sides
- Using a 14mm long socket and ratchet remove the Heated Seat Switch retainer nut [2]
- Remove the Heated Seat Switch retainer washer [3]
- Push down the Heated Seat Switch toggle switch [4] until is completely removed from the Central Console Plate [7]

2.3.2.2.3. Installation

1. Remove the Heated Seat Switch retainer nut [2] and washer [3] from the new Heated Seat Switch toggle switch [4]
2. Push in the Heated Seat Switch toggle switch [4] until is fully into the Central Console Plate [7]
3. Insert the Heated Seat Switch retainer washer [3] into the Heated Seat Switch toggle switch [4]
4. Holding the Heated Seat Switch toggle switch [4] from behind install the Heated Seat Switch retainer nut [2]
5. Using a 14mm long socket and ratchet tighten the Heated Seat Switch retainer nut [2]
6. Install the Central Console Plate [7] REFER TO INTERIOR TRIM >CENTRAL CONSOLE PLATE

2020 Carmel Service Manual

Interior Trim

2.3.3. Seat Belts

2.3.3.1. Retractor

The seat belt retractors are located inside the Trunk compartment, Mounted on the roof. Their function is to keep the seat belt tight over the occupant's body, in case of collision they will stuck, keeping the occupants body close to the seat.



2.3.3.1.1. Fastener Specifications

Application	Specifications	
	Metric	English
Upper Seat Belt Guide	50 Nm	35 ft. lb.
Seat Belt Retractor	50 Nm	35 ft. lb.
Lower Seat Belt Mount	50 Nm	35 ft. lb.

2.3.3.1.2. Tools

- 14mm Socket
- 16mm Wrench
- 16mm Socket
- 10" Extension
- 6" Extension

2.3.3.1.3. Removal

- Slide Both Passenger and Driver seats fully forward
- Remove the Central Console Plate REFER TO INTERIOR TRIM >CENTRAL CONSOLE PLATE
- Remove nut on Lower Seat Belt Mount
- Remove nut on Upper Seat belt Guide
- Remove nut on Retractor
- Remove Retractor

2.3.3.1.4. Installation

Caution
When installing the Seat Belt Retractor, a new nut must be used at each of the 3 mounting points

- Feed Seat Belt through chassis
- Insert and tighten mounting bolts are each of the three mounting points
- Install the Central Console Plate REFER TO INTERIOR TRIM >CENTRAL CONSOLE PLATE

2020 Carmel Service Manual

Interior Trim

2.3.3.2. Seat Belt Latch



2.3.3.2.1. Fastener Specifications

Application	Specifications	
	Metric	English
Seat Belt Latch to chassis	50 Nm	35 ft. lb.

2.3.3.2.2. Tools

- 14mm Socket
- 16mm Wrench

2.3.3.2.3. Removal

- Slide Seat fully forward
- Remove the Rocker Body Panel, REFER TO BODY REPAIR > EXTERIOR BODY PANELS > ROCKERS
- Remove the Seat Belt Latch

2.3.3.2.4. Installation

Caution
When installing the Seat Belt Latch a new nut must be used

- Push Seatbelt Latch bolt through chassis
- Install the Seatbelt Latch assembly
- Tighten nut
- Install the Rocker Body Panel, REFER TO BODY REPAIR > EXTERIOR BODY PANELS > ROCKERS

2020 Carmel Service Manual

Interior Trim

2.4. Floor Coverings

2.4.1. Interior Floor Carpet

2.4.1.1. Removal

- Remove Driver and Passenger side Dead Pedals, REFER TO INTERIOR TRIM >INTERIOR TRIM AND PANELING > DEAD PEDAL
- Unsnap perimeter of carpet from the vehicle
 - Use caution when pulling on carpet snaps, apply force perpendicular to snap to prevent tear out
- Remove Carpet

2.4.1.2. Installation

- Place Carpet in vehicle
- Snap carpet perimeter to chassis
- Re-install any accessories (Dead Pedals, Traction plate)

2.4.1.2. Trunk Carpet

2.4.1.2.1. Tools

- None

2.4.1.2.2. Removal

- Slide Seats forward
- Unsnap perimeter of carpet from the vehicle
 - Use caution when pulling on carpet snaps, apply force perpendicular to snap to prevent tear out
- Extract Carpet

2.4.1.2.3. Installation

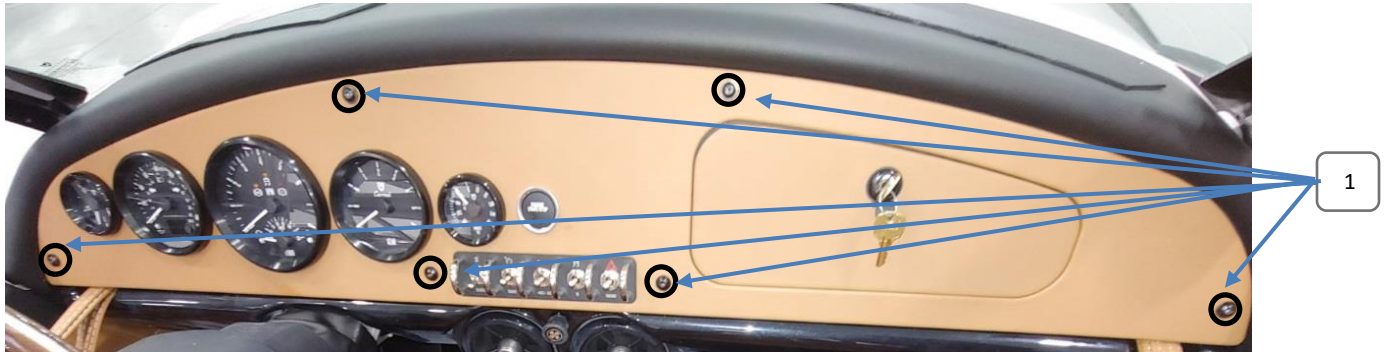
- Insert Carpet
- Fasten the snap connectors on the perimeter of the carpet to the vehicle
- Return seats to driving positions

2020 Carmel Service Manual

Interior Trim

2.4.2. Repair Instructions

2.4.2.1. Dash Panel



2.4.2.1.1. Fastener Specifications

	Application	Specifications	
		Metric	English
1	M6 x 25mm Black Zinc Socket Button bolts	3Nm	25 in lb.

2.4.2.1.2. Tools

- 4mm Hex key

2.4.2.1.3. Removal

- Open the Glove Compartment Door
- Remove the 6x M6 X 25mm Black Zinc Socket Button Bolts securing the dash to the vehicle
- Gradually pull the dash out until the wiring harnesses can be accessed
- Disconnect the wiring harnesses from the switches, gauges and Start Button
- Remove the Dash panel

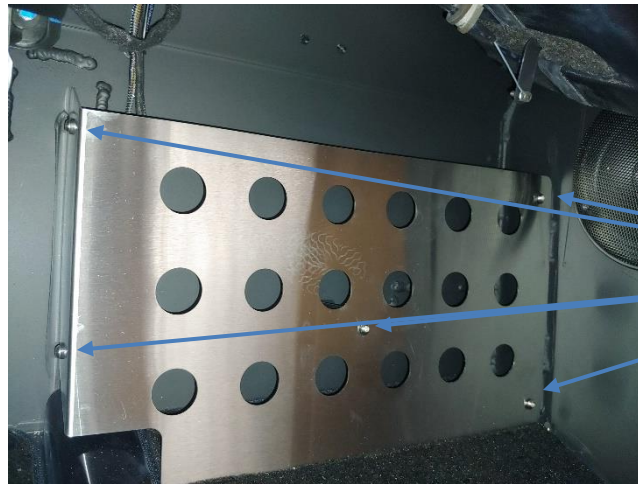
2.4.2.1.4. Installation

- Connect the wiring harnesses for the switches, gauges and Start Button
- Install the 6x M6 X 25mm Black Zinc Socket Button Bolts

2020 Carmel Service Manual

Interior Trim

2.4.2.2. Passenger Dead Pedal



1

2.4.2.2.1. Fastener Specifications

Application	Specifications	
	Metric	English
M6 x 25mm Stainless Steel Button Socket Bolts	3 Nm	25 in lb.

2.4.2.2.2. Tools

- 4mm Allen

2.4.2.2.3. Removal

- Inserting your tool through the open holes on the face of the dead pedal
 - Remove the 6, 6mm bolts securing the Passenger Dead Pedal to the vehicle
- Remove the Dead pedal

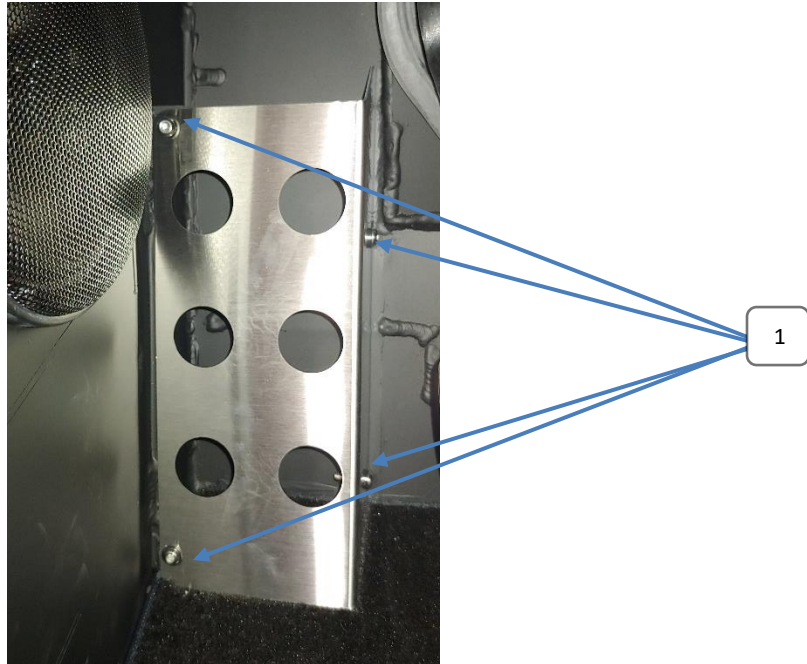
2.4.2.2.4. Installation

- Install the 6, 6mm bolts

2020 Carmel Service Manual

Interior Trim

2.4.2.3. Driver Dead Pedal



2.4.2.3.1. Fastener Specifications

Application	Specifications	
	Metric	English
M6 x 25mm Stainless Steel Button Socket Bolts	3 Nm	25 in lb.

2.4.2.3.2. Tools

- 4mm Allen

2.4.2.3.3. Removal

- Inserting your tool through the open holes on the face of the dead pedal
 - Remove the 4x, 6mm bolts securing the Driver Dead Pedal to the vehicle
- Remove the Dead pedal

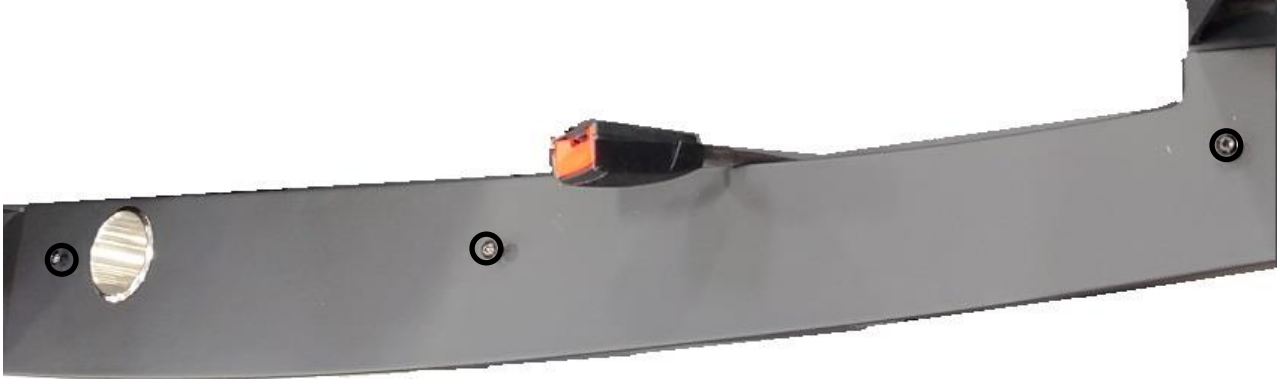
2.4.2.3.4. Installation

- Install the 5, 6mm bolts

2020 Carmel Service Manual

Interior Trim

2.4.2.4. Door Opening Sill Plate



2.4.2.4.1. Fastener Specifications

Application	Specifications	
	Metric	English
M6 x 25mm Black Zinc Button Socket Bolts	3 Nm	25 in lb.

2.4.2.4.2. Tools

4mm Allen

2.4.2.4.3. Removal

- Remove the 3x M6x 20mm Socket button bolts
- Remove the Sill Plate (5)

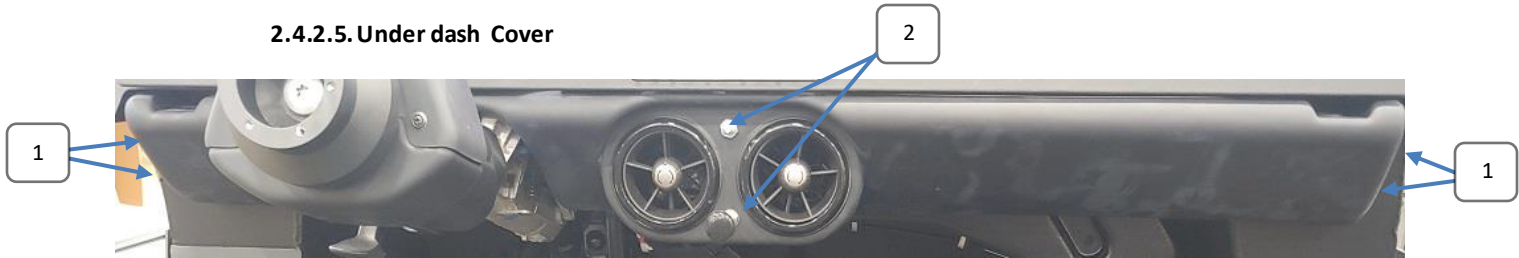
2.4.2.4.4. Installation

- Place the Sill Plate on the Chassis
- Install the 3x M6x 20mm Socket button bolts

2020 Carmel Service Manual

Interior Trim

2.4.2.5. Under dash Cover



Fastener Specifications

	Application	Specifications	
		Metric	English
1	M6 X 25mm Black Zinc Socket Button Bolt	3 Nm	25 in lb.
2	M10 Thin nut	3 Nm	25 in lb.

2.4.2.5.1. Tools

- 4mm hex key
- 14mm long socket
- 14mm open wrench

2.4.2.5.2. Removal

- Open the doors
- Release the Steering Column adjust lever and secure the Steering Column as low as possible.
- Remove the Heater Vents
- Remove the 4x, M6 x 25mm bolts [1]
- Remove the Heater blower switch
- Remove the Heater box cable

2.4.2.5.3. Installation

- Open the doors
- Install the Heater box cable
- Install the Heater Blower Switch
- Install the 4x, M6 x 25mm bolts [1]
- Install the Heater Vents