

SSV KIT - Seat Heater

Product:
Project no:
Instruction Sheet P/N:
Revision no:
Revision date:
Item covered:

Side-by-side
487803371_rev2
487803371
2
October, 2025
Seat Heater

The following symbols may be used in this document:

⚠ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION: Indicates a hazard situation which, if not avoided, could result in minor or moderate injury.
NOTICE Indicates an instruction which, if not followed, could severely damage vehicle components or other property.

⚠ WARNING

- For safety reasons, this kit must be installed by an authorized BRP dealer.
- This kit is designed for specific applicable models only (authorized BRP dealers will confirm model(s)). It is not recommended for units other than the one (those) for which it was sold.
- If the installation of the kit requires a template, ensure template is to scale.
- Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/ assembly, always replace with a new one.
- Torque wrench tightening specifications must strictly be adhered to.
- Always wear EYE PROTECTION AND APPROPRIATE GLOVES when using power tools.
- Unless otherwise specified, engine must be OFF when performing any operation on the vehicle.

⚠ WARNING

Some important safety information and/or operating instructions dedicated to the end user might be included in this instruction sheet. Make sure to give the kit part number as well as the instruction sheet included with this kit to the customer. Verify that the customer has access to all the information required for proper use of the accessory.
NOTE: USE TIGHTENING TORQUES IN THE FOLLOWING TABLE IF NOT OTHERWISE SPECIFIED.

	GRADE			
	5.8	8.8	10.9	12.9
M4	1.8 ± 0.2 N•m (16 ± 2 lbf•in)	2.8 ± 0.2 N•m (25 ± 2 lbf•in)	3.8 ± 0.2 N•m (34 ± 2 lbf•in)	4.5 ± 0.5 N•m (40 ± 4 lbf•in)
M5	3.3 ± 0.2 N•m (29 ± 2 lbf•in)	5 ± 0.5 N•m (44 ± 4 lbf•in)	7.8 ± 0.7 N•m (69 ± 6 lbf•in)	9 ± 1 N•m (80 ± 9 lbf•in)
M6	7.5 ± 1 N•m (66 ± 9 lbf•in)	10 ± 2 N•m (89 ± 18 lbf•in)	12.8 ± 2.2 N•m (113 ± 19 lbf•in)	16 ± 2 N•m (142 ± 18 lbf•in)
M8	15.3 ± 1.7 N•m (135 ± 15 lbf•in)	24.5 ± 3.5 N•m (18 ± 3 lbf•ft)	31.5 ± 3.5 N•m (23 ± 3 lbf•ft)	40 ± 5 N•m (30 ± 4 lbf•ft)
M10	29 ± 3 N•m (21 ± 2 lbf•ft)	48 ± 6 N•m (35 ± 4 lbf•ft)	61 ± 9 N•m (45 ± 7 lbf•ft)	73 ± 7 N•m (54 ± 5 lbf•ft)
M12	52 ± 6 N•m (38 ± 4 lbf•ft)	85 ± 10 N•m (63 ± 7 lbf•ft)	105 ± 15 N•m (77 ± 11 lbf•ft)	128 ± 17 N•m (94 ± 13 lbf•ft)
M14	85 ± 10 N•m (63 ± 7 lbf•ft)	135 ± 15 N•m (100 ± 11 lbf•ft)	170 ± 20 N•m (125 ± 15 lbf•ft)	200 ± 25 N•m (148 ± 18 lbf•ft)
M16	126 ± 14 N•m (93 ± 10 lbf•ft)	205 ± 25 N•m (151 ± 18 lbf•ft)	255 ± 30 N•m (188 ± 22 lbf•ft)	305 ± 35 N•m (225 ± 26 lbf•ft)
M18	170 ± 20 N•m (125 ± 15 lbf•ft)	273 ± 32 N•m (201 ± 24 lbf•ft)	330 ± 25 N•m (243 ± 18 lbf•ft)	413 ± 47 N•m (305 ± 35 lbf•ft)

The illustrations in this document show typical construction of the different assemblies and may not reproduce the full detail or exact shape of the parts; however, they represent parts that have the same or similar function.

In the pictures below, parts may have been removed for clarity purposes.
Installation time is approximately 1.75 hours for front seats and 1.75 hours for the rear seats.
icon legend

ICON



INDICATES

Drill a hole

Required Tools

REQUIRED TOOL

USE

T1	Drill bit 20 mm (13/16 in)	
T2	Drill bit 10 mm (13/32 in)	

To drill dashboard panel and the median cage.
To drill the battery cover.

parts to be installed

Seat Kit Wiring Harness for Defender G1

Item	Application	Models Without A/C And Heater	Models With A/C And Heater
P1	Front seats	710005757	715006036
		715006112	715006112
P1	Rear seats	715006004	715006004
		715006112	715006112

Seat Kit Wiring Harness for Defender G2

Item	Application	Models With or Without A/C And Heater
P1	Front seats	710005757
		715006112
P1	Rear seats	715006004
		715006112

3-UP MODELS - installed (P/N 710005757) and (P/N 715006112) kits
MAX MODELS - installed (P/N 710005757), (P/N 715006004) and (P/N 715006112) kits
Heated seat kit (P/N 715006112)

ITEM	DESCRIPTION	PART NUMBER		QTY
		A/C equipped models	Models without A/C	
P1	Seat Kit Wiring Harness	Refer to tables above	Refer to tables above	1
P1a	Seat Wiring Harness	Not available separately		1
P1b	188 mm Cable tie	414115200		10

P1c	M8 Hex. Flanged Elastic Nut	233281414	N/A	6
P1d	M6 Hex. Elastic Nut	232561200	N/A	2
P2	Rear Seat Kit Wiring Harness		715006004	1
P2a	Rear Seat Wiring Harness		Not available separately	1
P2b	Cable tie Mount		293750040	5
P2c	188 mm Cable tie		414115200	25
P2d	M6 x 25 Torx Screw		250000807	11
P2e	M6 x 70 Torx Screw		250000954	1
P2f	M8 Hex. Flanged Elastic Nut		233281414	4
P2g	M6 Hex. Elastic Nut		232561200	2
P3	Heat Seat Kit		715006112	1
P3a	Element Pad		Not available separately	1
P3b	12" x 10" Foam		Not available separately	1
P3c	Hi/Low Switch		715004710	1
P3d	Heat Element Extension Harness		Not available separately	1

NOTE: The majority of the illustrations are showing TYPICAL G1 Model set-up.

instructions

NOTICE Be careful not to pinch any wires and/or hoses between parts. Make sure to avoid contact of any wires and/or hoses with sharp edges, hot surfaces and moving parts.

DEFENDER G1 and G2 Models

Vehicle Preparation

1. Remove battery cover.
1. Battery cover (3-up model)
1. Battery cover (MAX model)
2. Disconnect battery.

NOTICE Always disconnect battery before doing any electrical modifications. Do not place tools on battery. Proceed exactly in this specific order:

- Disconnect BLACK cable (-) first.
- Disconnect RED cable (+) after.
- Secure battery by covering poles with isolating material.

Front Seat Installation

3. Remove the right floor panel. Refer to appropriate *Service Manual*.

Rear Seats Installation on MAX Models Only

1. Remove the rear panel under the driver's seat.
2. Remove the right floor panels. Refer to appropriate *Service Manual*.
1. Right floor panels

3. Remove the median cage covers from both side. Refer the appropriate *Service Manual*.

Wiring Harness for Front Seat

1. Remove the dashboard panel between the steering wheel and the grab bar.

DEFENDER G1

DEFENDER G2 UPPER DASH

NOTE: Defender G2 lower dash does not need to be removed to drill holes for switches.

2. Drill hole in the dashboard panel in desired locations in the four (4) possibilities depicted below using [T1] drill bit 20 mm (13/16 in).

NOTICE On Defender G2 lower dash, be careful not to drill too deep to avoid damaging hidden components.

DEFENDER G1

Switches positions

1. G1 Models
2. Alternative position for all models

Defender G2

DEFENDER G2 - UPPER DASH SWITCHES POSITIONS

1. Driver
2. Passenger

DEFENDER G2 - LOWER DASH SWITCHES POSITIONS

1. Driver
2. Passenger

3. Install Hi/Low switch [P3c] on panel and reinstall panel.

4. During installation, refer to the following diagrams.

Wiring diagram - Defender G1 models with A/C and heater (P/N 715006036)

Wiring diagram - Defender G1 (models without A/C and heater) and Defender G2 (models without A/C and heater) (P/N 710005757)

5. Install the seat wiring harness [P1a] on the appropriate posts of the vehicle junction block as shown.

NOTE: Do not tighten yet if you put rear heated seat on a MAX model.

CAUTION: Verify wiring before connecting the harness. Wrong connection or shorting may harm or damage the vehicle.

DEFENDER G1

1. Seat wiring harness [P1a]
2. Positive post (RED wire)
3. Grounding post (BLACK wire)

4. Vehicle bullet connections (Defender G1 with A/C and heater models) or front seat wiring harness [P3d] bullet connections routed from the floor (Defender G1 without A/C and heater models)

DEFENDER G2

1. Seat wiring harness [P1a]

2. Positive post (RED wire)
3. Grounding post (BLACK wire)

4. To connectors from the front seat wiring harness [P3d] routed from the floor

Tightening Torque

Nut

$3.5 \pm 0.5 \text{ N}\cdot\text{m}$ (31 ± 4 lbf·in)

DEFENDER G1 (A/C AND HEATER EQUIPPED MODELS)

6. Connect the seat wiring harness [P1a] to the vehicle harness as shown.

1. Heated seat harness [P1]
2. Vehicle harness

7. Connect the seat wiring harness [P1a] under the floor board.

NOTE: Make sure to match color from dash connections.

1. Seat wiring harness [P1a]

DEFENDER G1 (WITHOUT A/C AND HEATER MODELS) AND DEFENDER G2 (ALL MODELS)

8. Route [P3d] from the floor up into the dash, and connect to harness [P1a]. Then route [P3d] to the appropriate seat

REAR SEATS

Wiring Harness for Rear Seat (MAX Models)

1.

- Defender G1 with A/C and heater models: disconnect the bullets of the wiring harness [P2a]. Under the dash, connect the rear seat wiring harness connections to the vehicle connections as shown below and connect the rear seat wiring harness [P2a] on the appropriate posts [2] and [3] of the vehicle junction block and on vehicle bullet connections.

- Defender G1 without A/C and heater models & G2 all models: Under the dash, as shown below, connect the rear seat wiring harness [P2a] on the appropriate posts [2] and [3] of the vehicle junction block, route the wiring harness [P2a] down to the floor.

Wiring harness [P2a]: Wiring diagram (P/N 715006004)

DEFENDER G1

1. Rear seat wiring harness [P2a]

2. Accessories positive post (Harness RED wire)
3. Ground post (Harness BLACK wire)

4. Vehicle bullet connections (Defender G1 with A/C and heater models) or front seat wiring harness [P2a] bullet connections routed from the floor (Defender G1 without A/C and heater models)

DEFENDER G2

1. Rear seat wiring harness [P2a]

2. Accessories positive post (Harness RED wire)
3. Ground post (Harness BLACK wire)

4. Vehicle bullet connections of the rear seat wiring harness [P2a] routed from the floor (Defender G1 without A/C and heater models and G2 all models)

Tightening Torque

Nut

3.5 ± 0.5 N•m (31 ± 4 lbf•in)

2. Rear seat connections :

- Defender G1 with A/C and heater models: connect the rear seat wiring harness [P2a] connections [2] to the vehicle connections [3] under the floor, as shown and route the rear seat wiring harness using 188 mm cable tie [P2c]. Make sure to match dash connections.

- Defender G1 without A/C and heater models & G2 all models: route the rear seat wiring harness [P2a] using 188 mm cable tie [P2c]. Make sure to match dash connections.

1. Rear seat wiring harness [P2a]

2. Rear seat wiring harness connections

3. Vehicle connections (Defender G1 without A/C and heater models only)

4. 188 mm cable tie [P2c]

3. Remove the shown screw to facilitate the installation.

1. Rear seat wiring harness

4. Route the rear seat wiring harness [P2a] as shown.

1. Rear seat wiring harness [P2a]

1. Rear seat wiring harness [P2a]

5. Route the rear seat wiring harness [P2a] to middle right panel. Attach the harness using 188 mm cable tie [P2c] and cable tie mounts [P2b].

right side

1. Rear seat wiring harness [P2a]

2. 188 mm cable tie [P2c]

3. Cable tie mount [P2b]

6. Route the rear left seat wiring harness [P2a] under the front seats using 188 mm cable tie [P2c] to secure it.

1. Rear seat wiring harness [P2a]

2. 188 mm cable tie [P2c]

7. Route the rear LH switch connector under the left middle side panel. Attach the harness using 188 mm cable [P2c] and cable tie mounts [P2b].

left side

1. Rear seat wiring harness [P2a]

2. 188 mm cable tie [P2c]

3. Cable tie mount [P2b]

8. Drill the 20 mm (13/16 in) holes in the median cage on both side with [T1].

Right side

left side

9. Install Hi/Low switch [P3c] in holes.

10. Connect the rear seat kit wiring harness [P2a] to the rear RH and LH switches.

1. Rear RH switch

2. Rear seat wiring harness [P2a]

11. Connect the cables of the rear heated seat to the rear seat wiring harness [P2a]. Refer to the wiring diagram.

1. Rear left heat element cable

2. Rear right heat element cable

3. Rear seat kit wiring harness [P2a]

4. Rear seat kit wiring harness [P3]

Step 1: Connect the rear heat element cables to the rear seat kit wiring harness [P2a].

- Connect the rear LH heat element cable with the YELLOW connector of the rear seat kit wiring harness [P2].

- Connect the rear RH heat element cable with the BLUE connector of the rear seat kit wiring harness [P2].

12. Drill two (2) 10 mm (13/32 in) holes in the previously removed battery cover with [T2].

13. Route harness as shown.

1. Rear left heated pad wire

2. Rear left heat element cable

3. Rear right heated pad wire

4. Rear right heat element cable

Heated Seat Installation

Front Seat

NOTE: Ensure seats are dry before installation.

1. Remove the front seats.

Driver Seat

2. Unscrew the four (4) shown nuts and screws, then lift the seat. Discard the nuts. some Parts are hidden for clarity

1. Screw

2. Nut

Passenger Seat

3. Unscrew the two (2) shown screws and nuts, than lift the seat. Discard the nuts. some Parts are hidden for clarity

1. Screw

2. Nut

4. Remove the outside seat skin.

5. Place heat pad on foam seat base.

- Adhesive strips (yellow) facing down.

- Power cable is at the back or in corner; whichever is convenient.

NOTE: Before sticking the element on the seat, check the proper location to make sure the heating area is where you want it to be.

1. Heat pad

2. Adhesive strip

3. Power cable

6. Glue the larger black foam piece on top of the heat pad.

7. Pass harness between seat cover as shown. To do so, use a 10 mm (13/32 in) drill bit [T2].

8. Redress the seat base, using velcro or tabs.

9. Replace seat base in the vehicle.

Driver Seat

Use the four (4) previously removed screws and four (4) new M8 elastic nut [P1c].

Tightening Torque

M8 elastic nut [P1c]

16.5 ± 1.5 N•m (146 ± 13 lbf•in)

Passenger Seat

Use the two (2) previously removed screws and two (2) new M8 elastic nut [P1c].

Tightening Torque

M8 elastic nut [P1c]

16.5 ± 1.5 N•m (146 ± 13 lbf•in)

10. Connect the heat element extension harness [P3d] with the Heated Element Harnesses as shown.

NOTE: Use electric tape to secure the connectors together.

some Parts are hidden for clarity

1. Heated Element Harness (Driver).

2. Heat element extension harness [P3d] (Driver).

some Parts are hidden for clarity

1. Heated Seat Harness (Passenger).

2. Heat element extension harness [P3d] (Passenger).

NOTE: Use electric tape to secure the connectors together.

Rear Seat (MAX models)

1. Remove the rear seats the same way as the passenger seat.

2. Follow the instructions of the front seat for the rear heat pad (Step 2 to 8 of Front Seat).

3. Replace seats base in the vehicle by using the four (4) previously removed screws and two (2) new M8 elastic nut [P2f].

Tightening Torque

M8 elastic nut [P2f]

16.5 ± 1.5 N•m (146 ± 13 lbf•in)

4. Secure wires and reinstall all the panels.