Rear fender with LED lighting and seat

Installation manual and safety information

for

Indian Chief

from model year 2021

Caution

Important safety advice:

- Work undertaken on wheels and wheel axles poses a safety risk. This work may only be carried out by appropriately qualified personnel. Faulty work can have serious consequences and may pose a threat to life and health. Only undertake this installation if you are sufficiently qualified and have an official workshop manual as well as all relevant service notifications available. Otherwise, we strongly recommend that the installation is carried out or at least checked in a specialist workshop.
- Any work in relation to the installation, removal and tightening torque of original parts should always be carried out in compliance with the workshop manual.
- All screws must be attached with thread-locking fluid. However, this should only be done after the installation is complete.
- It is your responsibility to check the product regularly and to determine if a service or replacement is required.
- Please bear in mind that this product is a safety-relevant part of your vehicle. After a fall or collision, check the product and if there is the slightest indication of damage, you must replace it.
- This product has been designed for a standard vehicle. ABM® Fahrzeugtechnik GmbH makes no warranty or guarantee of any kind for any damages whatsoever arising out of the combination with other component parts not tested by ABM, as a consequence of improper installation or inadequate maintenance.
  The installation of additional accessories (e.g. cases, bags, exhaust systems, ...) from the vehicle manufacturer or other suppliers can impair the functionality of the product / vehicle and is therefore not permitted.

1 Preparation

- **Before painting, the fender must be fitted and adjusted, where necessary.**
- **To fasten the number plate, a holder is required.**
- **This rear conversion has been designed for the original tyres and the original spring elements and tested with these.**

- Prior to the retrofit, please read the entire safety information and installation manual carefully.
- A motorcycle not securely positioned can fall over during the following work. Therefore, make sure that the motorbike is positioned on solid, flat ground and is secured against falling over and rolling away.
- Keep children and pets away from the work area and protect removed parts from damage.
- When disassembling individual parts, please note which screws are used to fasten them. Keep these parts and screws and unless specified otherwise, reuse when assembling.

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2 Content

Pos	Title	No.
1	Seat BO1Q	1
2	Seat shell BO1Q	1
3	Plate nut M4	2
4	Seat emblem BO1Q	1
5	Oval-head screw ISO 7380 – M4 x 16	2
6	Plate nut M5	4
7	Q-Ring 4.5x2	4
8	Oval-head screw ISO 7380 – M5 x 16	2
9	Hexagon screw DIN 6921 – M5x16	2
10	Washer DIN 9021– 10.5	2
11	Cylinder screw DIN 6912 – M10x30	2
12	Metal pin logo W round	1
13	Seat mounting INC1U	1
14	Hexagon nut DIN 985-M10	2
15	Cover plate right INC1U	1
16	Cover plate left INC1U	1
17	Oval-head screw ISO 7380 – M6 x 12	4
18	Oval-head screw ISO 7380 – M5 x 8	8
19	Connecting frame right INC1U	1
20	Connecting frame left INC1U	1
21	Connecting frame centre INC1U	1
22	Cylinder screw DIN 6912 – M8x25	4
23	Cylinder screw DIN 6912 – M8x16	5
24	Connecting plate seat mounting INC1U	1
25	Locking washer DIN 6798- A 8.4	4
26	Cylinder screw DIN 6912 – M8x12	1
27	Cover cap SW6 for M8 screw	8
28	Cylinder screw DIN 6912 – M8x30	2
29	Cylinder screw DIN 6912 – M6x35	2
30	Holder rear fender INC1U	2
31	Hexagon nut DIN 985-M6	2
32	Spacer bushing 6.5x15x27	1
33	WK fender INC1U rear	1
34	Oval-head screw ISO 7380 – M6 x 40	1
35	Washer DIN 9021– 6.4	1
36	Nut for brace INC1U	2
37	Brace for rear fender left INC1U	1

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3 Installation

Safely position the vehicle with a jack.

In doing so, the rear wheel must be freely rotatable.

Remove the seat.

Disassemble the left and right side cover.

Disconnect ground of the vehicle battery.

Unscrew and remove the rear fender.

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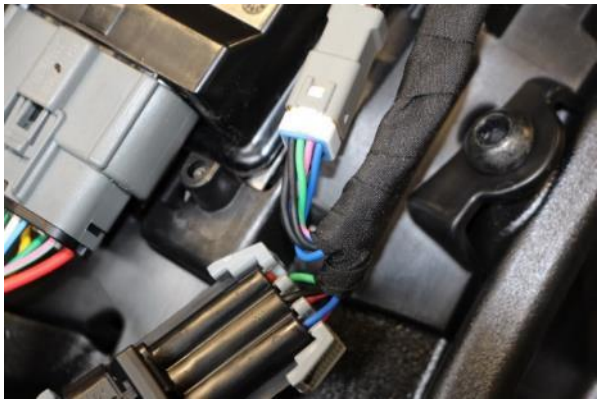
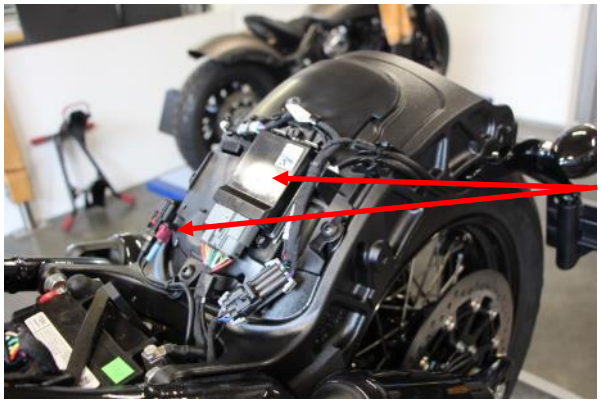
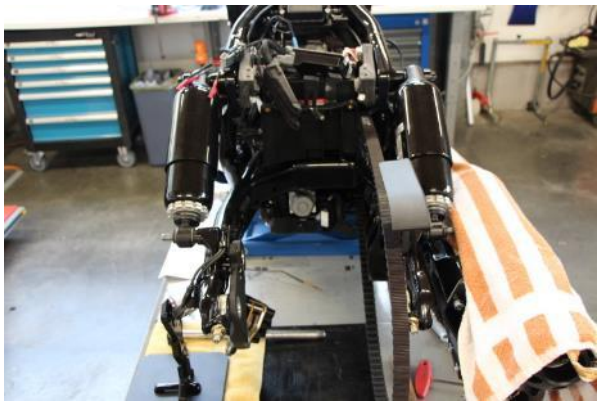


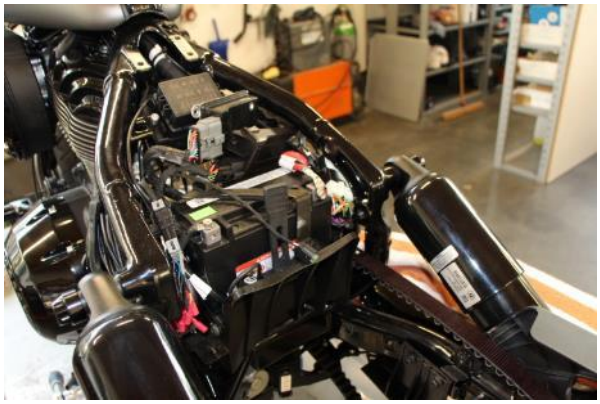
Disconnect the three plugs for the rear lighting.



Loosen the two free plugs and the control unit from the brackets at the rear frame.



Remove the rear wheel.



Remove the complete bracket.

Tip: To do this, remove the battery.

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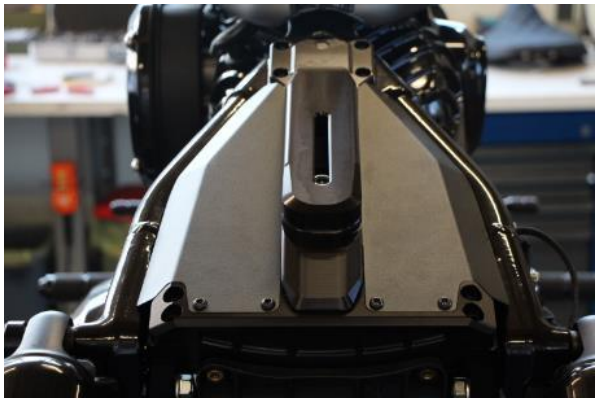
Attach the two connection brackets to the frame on both sides using the original screws.

Completely premount the holding frame for the seat.

To do this, refer to the drawing (page 3) for the screw length.



Place the holding frame onto the connection brackets and the vehicle frame and compare the positions of the holes with the corresponding threads.

If necessary, loosen the connection brackets on the frame again and realign.

Remove the entire holding frame again.

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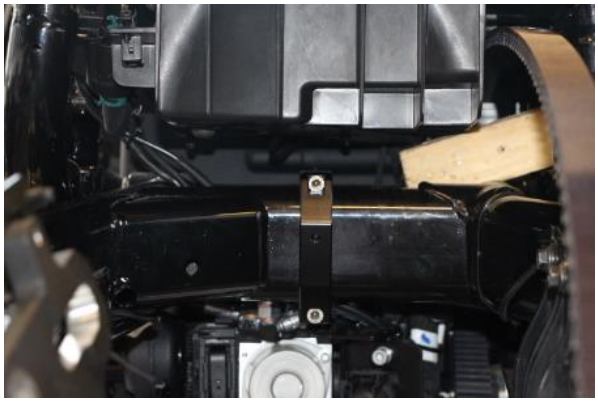

Mount the fender holder provided on the swingarm in such a way that…

… the threaded holes are aligned upwards.

Fasten the screws only lightly initially.

Mount the two supporting braces for the rear fender to the lower fixing points of the spring struts using the nuts provided.

Carefully slide the fender into the swingarm and lightly attach to the fender holder at the front using the screws with spacer bushings provided.

Use thread-locking fluid (medium strength).

Attach the fender to the struts at the rear using the screws, washers and rubber rings.

Use thread-locking fluid (medium strength).

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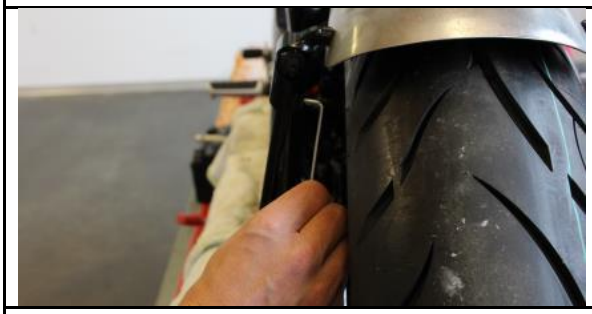
The fender should be easily movable and adjustable at this stage.

Mount the rear wheel.

Align the fender.

Dismantle the rear wheel again and tighten all fender screws.
Use thread-locking fluid (medium firm) for all screw connections.

Tightening torque 5x M6: 8 Nm
Tightening torque 2x M12: 45 Nm



Another setting option exists by the thread pins on the inside of the rear lights.
Tightening torque M5: 4 Nm

Finally, remount and attach the rear wheel and all previously dismounted parts on the rear.

Lay both rear light cables along the swingarm so that they can be connected to the battery.

All electric wires must be laid in a manner which prevents them from bending or getting pulled during spring deflection movements and which adequately protects them against rubbing.

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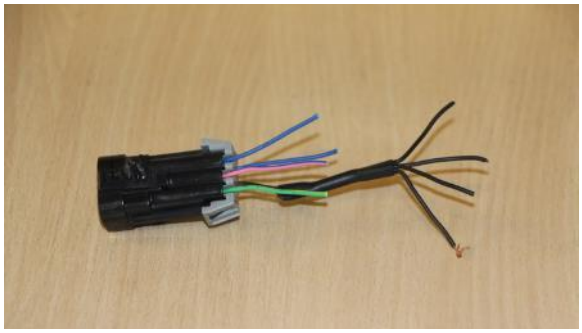
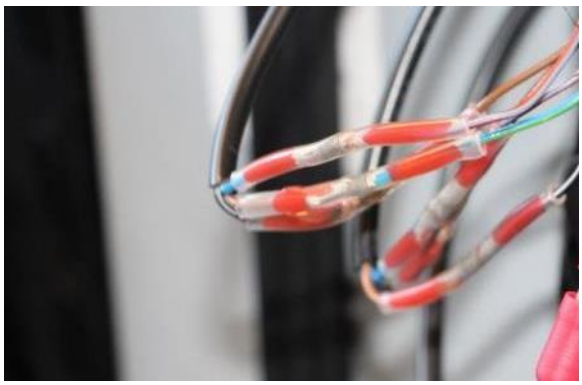


Cut the connecting piece of the original cable harness for the rear lights at approx. 20cm from the plug.

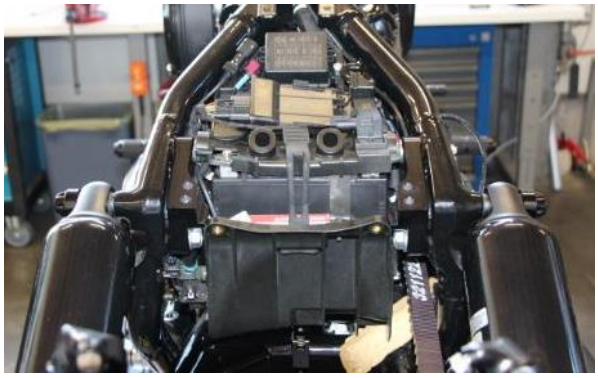


Connect the cable harness provided with the rear lights and the original plug using the solder connectors according to the diagram.

Caution: Incorrectly connected consumers (e.g. number plate holder) can lead to malfunctions of the lighting and/or error messages on the vehicle.

Description of the solder connectors:

The tin is melted by the heat of a heat gun and a secure contact is ensured. Furthermore, the connector shrinks with inside adhesive and thus ensures impermeability. The transparent heat-shrink tubing enables a visual control of the connection.



Reattach the battery using the original bracket.
Place the complete electrics in front of the battery box and attach.

All electric wires must be laid in a manner which prevents them from bending or getting pulled during spring deflection movements and which adequately protects them against rubbing.

Slide the two nuts provided into the seat bracket notch.

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Attach the complete bracket to the frame using the screws provided.

Tightening torque M8: 22 Nm

Use thread-locking fluid (medium strength).

Push the plastic coverings into the screw heads and stick in the pin.

Attach the seat shell onto the holder using the screws and large diameter washers provided, adjust as required and tighten.

Tightening torque 35 Nm

Place the seat onto the shell and attach using the screws (M5) provided.

Note: Screw in the hexagon screws at the front.

Attach the emblem using the two screws (M4) provided.

Reattach both side covers.

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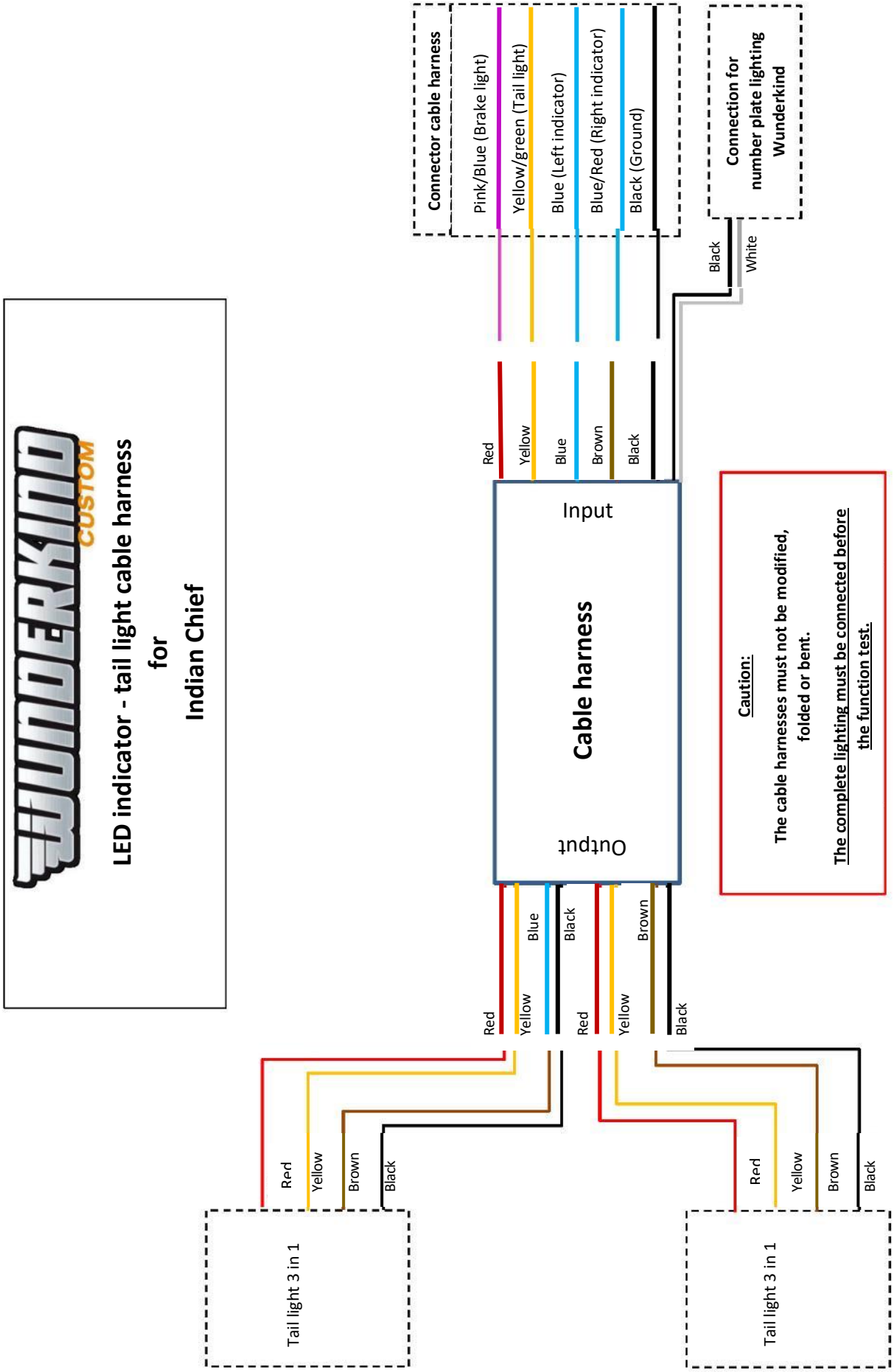

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4 Final check

- The fender must not collide with other components on the vehicle, not even when fully loaded and over the entire spring travel.
- All electric wires must be laid in a manner which prevents them from bending or getting pulled during all spring deflection movements and which adequately protects them against rubbing.
- After completing the work, check that all components and screws are tight and functioning correctly. Also check the rear wheel's freewheel and the functionality of the brake system.
- Afterwards, a test drive must be carried out! After completing the test drive, the tightness of all screw connections must be checked, as well as the adequate free travel of all moving parts. Re-test the rear wheel's freewheel and check the brake system for overheating.

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