

HAYMAN REESE
PART No: R2707W
VOLKSWAGEN CRAFTER 2010
TO SUIT MID WHEEL & LONG WHEEL BASE (3.5 AND 4.49-5 TONNES
WITH STEP)

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT



Installation Time: Approx 30 Mins

Towbar Installation Instructions
VOLKSWAGEN CRAFTER 2010
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Towbar capacity

Part Number R2707W

Max Towing Braked 2000kg
Max Static Ball Load 200kg

Hayman Reese (Cequent)
PO Box 4050, Dandenong South VIC 3164
Phone 1800 812 017 Email info@haymanreese.com.au

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Warning:

1. Do not, drill, cut, weld or otherwise modify the towbar.
2. If you are using electric welding on a motor vehicle, **always** check that the vehicle is not equipped with electronic engine or instrument management equipment. Failure to do so could **destroy** any onboard computers. If in doubt, check with the vehicle's manufacturer.
1. **General:** Ensure all hardware items have been included refer to assembly diagram.
2. It is recommended that the instructions are read through and completely understood before making any attempt to fit this product.
3. Be wary of any changes to vehicle designs or other accessories that may conflict with the installation of this product.
4. Before drilling ensure that the area is clear of fuel, electrical & other components.
5. All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.
6. The high tensile fasteners supplied with this product were used to achieve the specified rating. If replacement is required ensure that fasteners of the same rating & quality are used. Contact an authorised **Hayman Reese** dealer if further information is required.
7. Ensure that all hardware is fastened to torque list below check fasteners on regular basis.
8. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door. **(See diagram below).**
9. Hayman Reese recommends that you check your tow ball to ensure that it complies with the Australian standards **AS 4177.2**.
10. **PLEASE NOTE:** It is advised to remove your lug or tbn when not actually towing so as to produce a clear view of the vehicles registration plate if obscured, and to also provide maximum available departure angle.

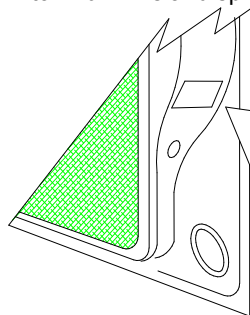
Tow bar Maintenance and Care.

Hayman Reese recommends that bolt torque's, as listed below, are routinely and regularly inspected and checked for correct tension. Replace any worn or defective parts.

We recommended to remove Tow Ball Mounts (TBM's, tongues or lugs) when not being used for any considerable length of time.

So as to avoid injury, when not towing it is suggested that the tongue, Pull Pin and R-clip are removed then stored in a safe, clean and dry place, away from excessive moisture.

Hitch Pull Pins and spring "R" clips are regularly checked for proper installation. Replace any worn or defective parts.



**Place load rating sticker
inside driver's door here**

**RECOMMENDED ASSEMBLY TORQUE
LISTING**

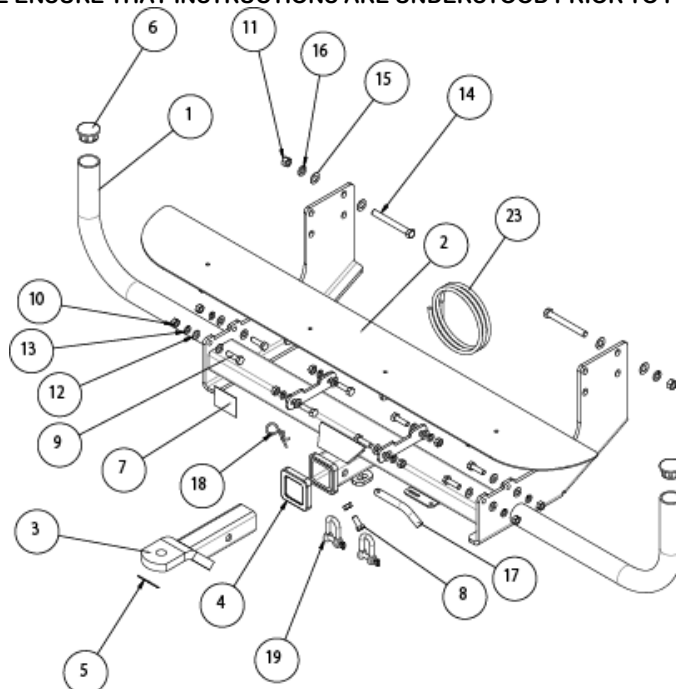
Diameter Grade 8.8 Bolt

M6	9.5 Nm
M8	21.7 Nm
M10	43.4 Nm
M12	77.3 Nm
M14	146 Nm
M16	189.8 Nm

FOR TOWING PURPOSES ONLY

For towing capacity details please refer to vehicle
owner's manual or to the manufacturer. Overloading can
void your warranties.

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Items 20, 21 and 22 are not shown in the drawing

Figure 1 – Layout Diagram

ITEM NO.	DESCRIPTION	QTY.
1	WELDED TOWBAR	1
2	WELDED STEP	1
3	T.B.MOUNT 21161	1
4	Hitch Box Collar Cover	1
5	H.R. STICKER	1
6	END CAP c/w H.R. LOGO	2
7	Acrylic Compl PI Label	1
8	M10 x 25 1.5P BOLT	1
9	M10 x 35 1.5P BOLT	8
10	NUT M10 x 1.5P	9
11	M12 x 1.75P NUT	2
12	Wshr ft 3/8 x 1 x 16 brt z/p	16
13	M10 SPRING WASHER	8
14	M12 x 110 bolt	2
15	Wshr ft 1/2" x 1-1/8" x 16 z/p	4
16	M12 SPRING WASHER	2
17	PULL PIN	1
18	SPRING COTTER PIN	1
19	D' SHACKLE	2
20	FITTING INSTRUCTIONS	1
21	Warranty Card	1
22	Acrylic Load Rating Label	1
23	WIRING LOOM	1

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Figure 2 – Remove the shipping hook.

Note: Position the vehicle to a safe working height.

1. Remove the shipping hook from the chassis inside face. Refer to Figure 2.

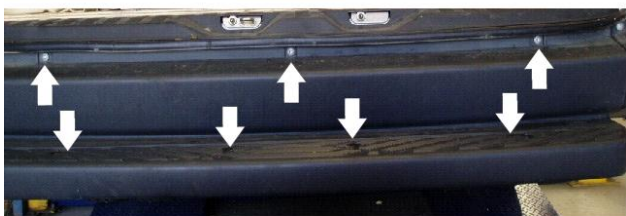


Figure 3 – Remove scrivenets and torx screws.

2. Remove the torx screws x 3 and scrivenets x 4, from the bumper, as shown in Figure 3.
3. Remove the shipping hook assembly and discard it.

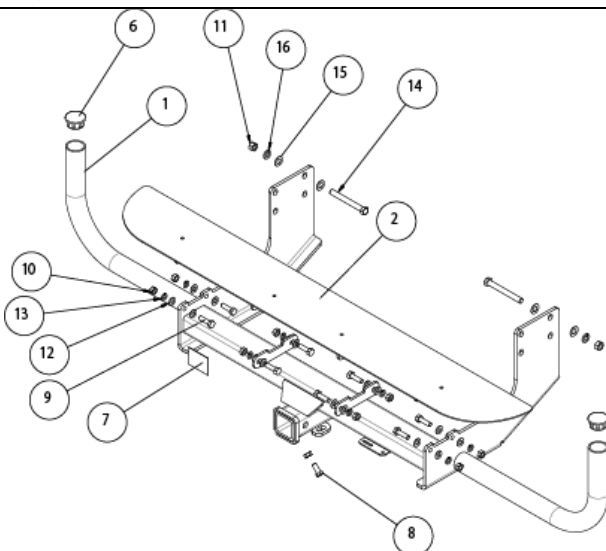


Figure 4 – Locate the towbar.

4. Locate the towbar on the vehicle and fit it with the relevant fasteners, as shown in Figure 4.
5. Fit the step (item 2), under the plastic cover, using the scrivenets x 4.
6. Fit the torx screws x 4 back on the bumper.
7. Torque the M12 and M10 bolts to the torque requirements mentioned on page 2.
8. Affix the load rating label, as shown on page 2.

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MERCEDES SPRINTER / VW CRAFTER
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Wiring Loom Installation Instructions

MERCEDES SPRINTER / VW CRAFTER
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Tail Harness Length Required: 1200mm
Kit Includes Power Harness Part No: 04825

ECU Required Part No: 04826
RPA Override Switch Part No: 04848 (if fitted)

Wiring Loom Installation Time: Approx 40 Mins

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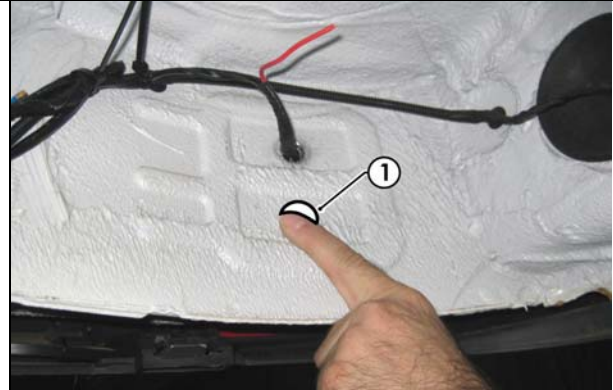


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INSTALLATION INSTRUCTIONS

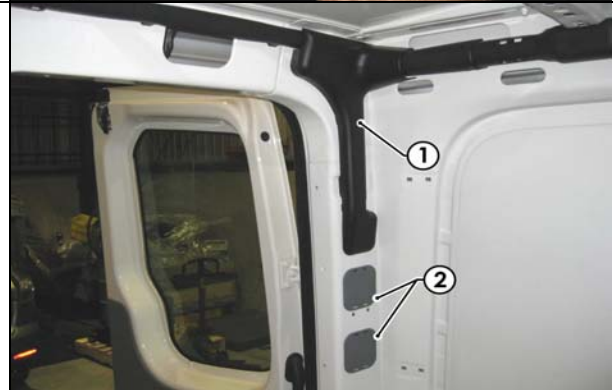
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Note: This trailer patch harness is designed to fit the Mercedes Sprinter and the Volkswagen Crafter. Please ensure the correct trailer patch tail light connectors are used. Always refer to labels on the trailer patch tail light connector when fitting this kit.

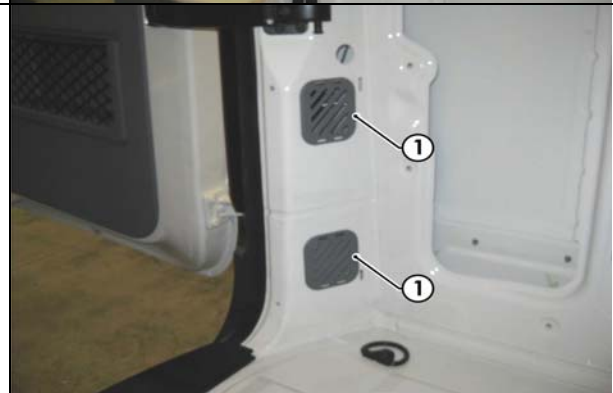
1. Underneath the rear LHS of the vehicle drill out a Ø31mm hole in the area indicated (1).
2. File down any rough or sharp edges and spray on rust inhibitor.



3. Inside the LHS of the cargo area, remove the LHS trim cover (1) and the rear pillar caps (2).



4. Remove the LHS lower rear pillar caps (1).



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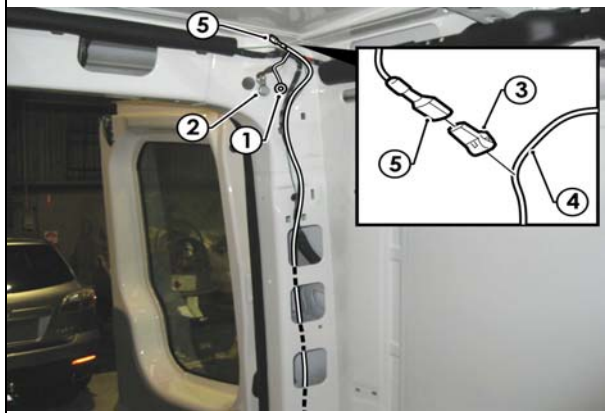
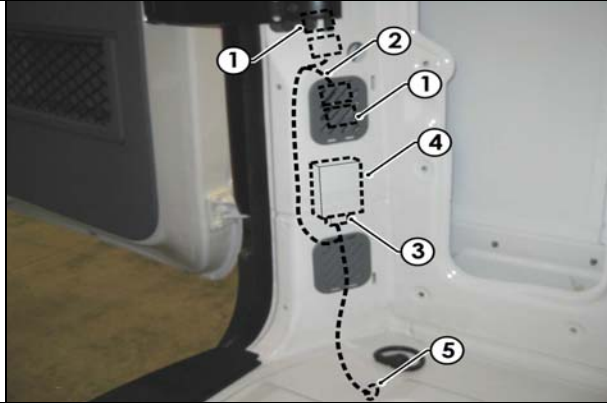
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5. Inside the LHS rear pillar cavity, disconnect the LHS tail light connector (1) and patch the trailer patch harness (2) (P/No: 100513-WL) in between. **Ensure the correct trailer patch tail light 12-way female connectors are used.**
6. Connect the trailer patch harness ECU connector (3) to the ECU (P/No: 04826) (4). Secure the ECU into the rear pillar cavity using double sided tape.
7. Feed in the guide wire and tape it to the trailer patch harness wires pull the trailer patch harness through the drilled out grommet hole (5).
8. From underneath the vehicle, ensure the trailer patch harness grommet is seated correctly and secure it in place using a cable tie (not supplied)
9. Route the trailer patch harness up the rear pillar and out the highest pillar cavity opening, towards the top LHS corner vehicle ring terminal and the vehicle harness wire.
10. Secure the trailer patch harness earth terminal (1) to the vehicle grounding point (2).
11. Secure the supplied ezy tap (3) onto the vehicle harness right indicator GREEN/BLACK wire (4).
12. Insert the trailer patch harness 'GREEN/BLACK terminal wire (5) onto the ezy tap (3).



Function	Trailer Patch	Vehicle Connector
R.IND	GREEN / BLACK	GREEN / BLACK

13. In the vehicle cabin on the passenger side, gain access to the battery by removing the jack (1) and floor covers (2).



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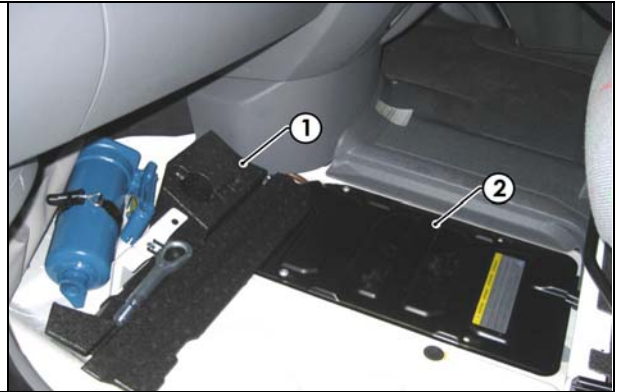
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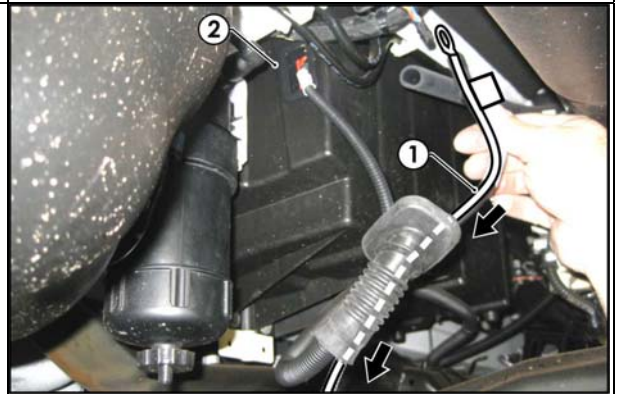
14. Remove the tool tray (1) and remove the battery cover (2).



15. Remove the black starter power cable (1).



16. Underneath the vehicle, locate the battery box and dislodge the battery box grommet.
17. Route the power harness (04825) (1) ring terminals up into the battery box cavity (2).
18. Route the other end of the power harness (1) down through the battery box grommet.



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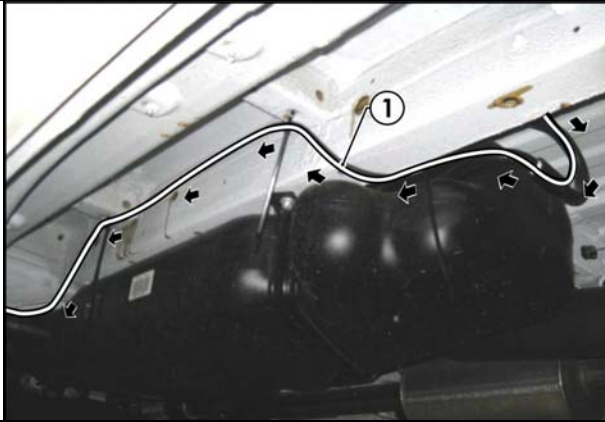
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19. Following the existing vehicle harness, route the power harness along the LHS of the vehicle towards the rear.



20. Continue routing the harness (1) towards the rear of the vehicle.

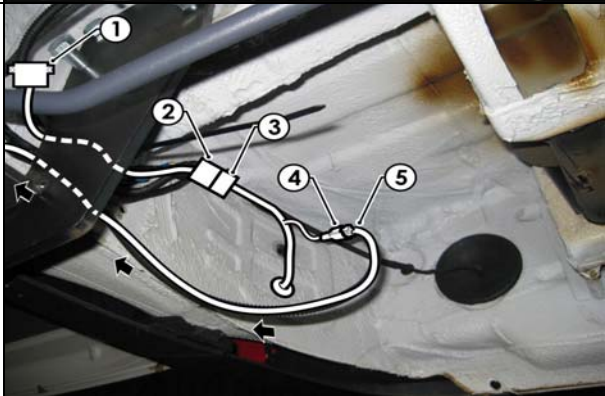


21. Underneath the rear of the vehicle, secure the tail harness (tail length 1200mm) trailer socket (1) to the towbar mounting bracket using M4 fasteners (not supplied).

22. Using electrical grease or silicone, water proof the back of the tail harness and trailer patch harness 8-way connectors (2) (3).

23. Connect the tail harness connector (2) to the trailer patch harness mating connector (3).

24. Connect the trailer patch harness 1-way connector (4) to the power harness (5).



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25. Inside the passenger cabin, retrieve the power harness terminal (1). Secure the 'ORANGE' wire terminal (1) to the positive battery terminal (2).



26. Test the Trailer Patch Harness function using a Light Board or multimeter.
27. Secure the Trailer Patch Harness using cables ties (not supplied).
28. Re-fit all removed parts and secure all fasteners ensuring there are no squeaks or rattles.
29. Place instructions in glove box after fitment.

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