

HAYMAN REESE

PART No: 03243W

HONDA ODYSSEY 5TH GEN CL2

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT
PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION IS COMPLETED



Installation Time: Approx 145 Mins

Towbar Installation Instructions

Towbar capacity

HONDA ODYSSEY 5TH GEN CL2

Part Number 03243W

Max Towing Braked 1000 kg

Max Towing Unbraked 450 kg

Max Static Ball Load 50 kg

ECU: 04836

Tail Length: 1200mm

RPA Disable: N/A

Electric brake input location: Near ECU

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 on board computers. If in doubt, check with the vehicle's manufacturer.
3. If TBM is used in inverted position tow ball may make contact with rear tailgate when lowered, which could cause damage.

General:

1. 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 TBM 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.

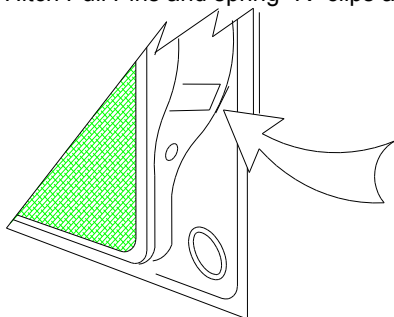
Tow bar Maintenance and Care.

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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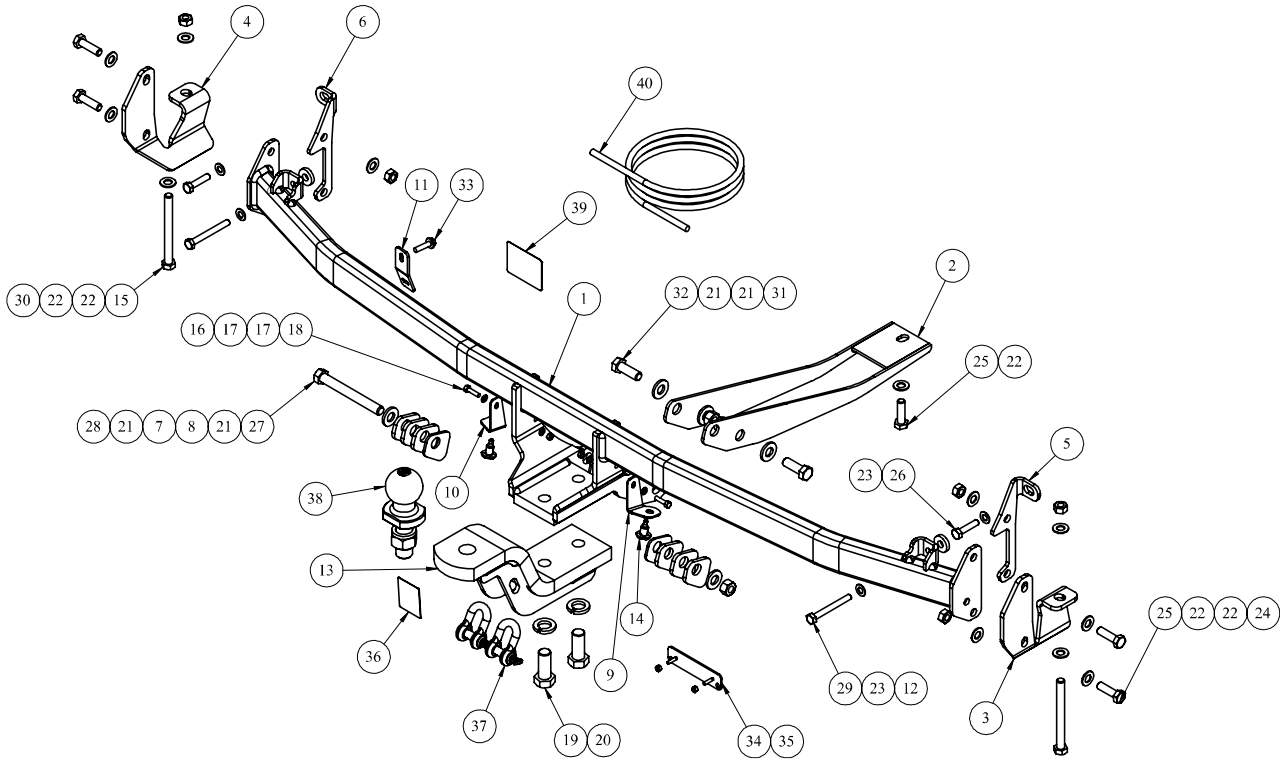
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ITEM	DESCRIPTION	QTY
1	WELDED ASSEMBLY	1
2	TYRE WELL BRACKET	1
3	SIDE ARM RHS	1
4	SIDE ARM LHS	1
5	REAR PANEL BRACKET RHS	1
6	REAR PANEL BRACKET LHS	1
7	SHIM 5MM	6
8	SHIM 3MM	4
9	BUMPER TAB RHS	1
10	BUMPER TAB LHS	1
11	SENSOR BRACKET	1
12	ROUND SPACER 5MM	2
13	LUG ASSY	1
14	BUMPER TRIM CLIP	2
15	BOLT M10x110 1.5P	2
16	NUT HX M5-0.8 Z/P	2
17	WASHER PLAIN M5x10x1	4
18	SET SCREW HEX HD M5x20x0.8P	2
19	BOLT ZP BLACK M16x40 2.0P	2
20	SPRING WASHER ZP BLACK M16	2

ITEM	DESCRIPTION	QTY
21	WASHER PLAIN 1/2x1-1/8x16G	6
22	M10 FLAT WASHER 21x1.6MM	13
23	WSHR FT M8x17x1.20 Z/P	4
24	NUT HEX HD M10x1.25P G8	4
25	SET SCREW HEX HD M10x35x1.25P	5
26	BOLT HX HD M8x35x1.25P G8.8	2
27	BOLT HEX HD M12x110x1.75P G8.8	1
28	HEX NUT PC8 M12x1.75	1
29	BOLT M8-1.25x70 GR 10.9 Z/P	2
30	HEX NUT M10x1.5	2
31	NUT HEX HD M12x1.25P G8	2
32	SET SCREW M12-1.25x35 GR8.8	2
33	TEK SCREW 14-20 HEX HD 22MM	1
34	VE PLUG BRACKET	1
35	NUT NYLON LOCK HEX HD M4x0.7P G8	2
36	H.R STICKER	1
37	"D" SHACKLE 10MM	2
38	HR TOWBALL	1
39	ACRYLIC COMPLIANCE LABEL	1
40	WIRING LOOM	1

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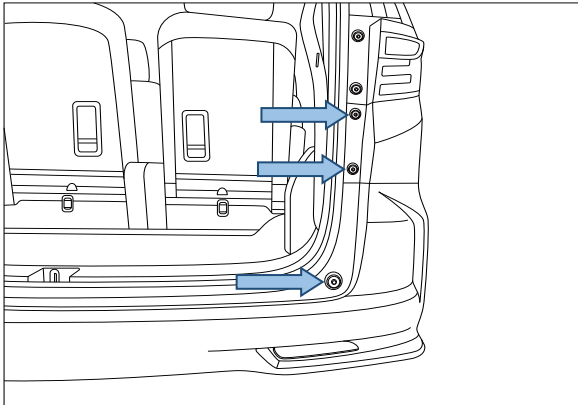
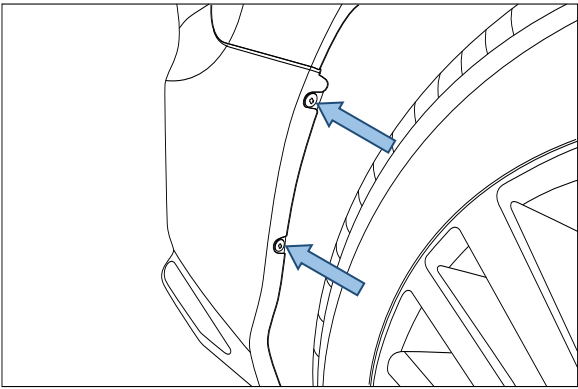
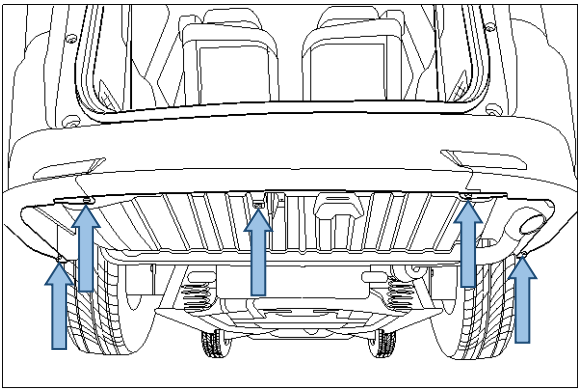
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<p>1. Release tail-gate. Remove 3 x torx head screws surrounding boot opening on one side.</p> <p>Repeat for opposite side.</p>	 A line drawing of the rear of a vehicle showing the tailgate boot opening. Three blue arrows point to three Torx screws located along the right edge of the boot opening.
<p>2. Remove 2 x screws from inside wheel arch well.</p>	 A line drawing of the inner wheel arch area of a vehicle. Two blue arrows point to two screws located on the inner fender panel.
<p>3. Remove 2 x screws and 3 x scrivets from underside of bumper.</p>	 A line drawing of the underside of a vehicle's bumper. Two blue arrows point to screws on the left side, and three blue arrows point to scrivets on the right side.

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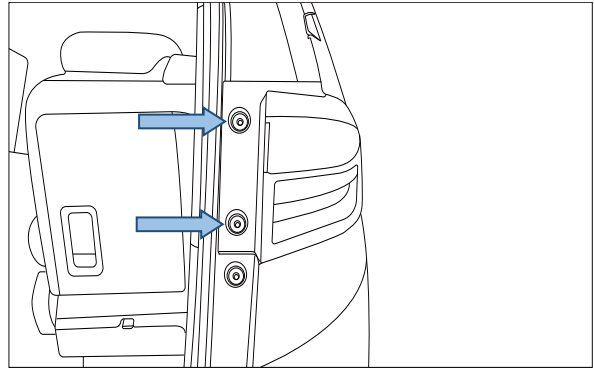
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4. Remove 2 x torx head screws surrounding tail light. Partially remove tail-light to assist with removal of bumper.

Ensure tail-light is supported during bumper removal.

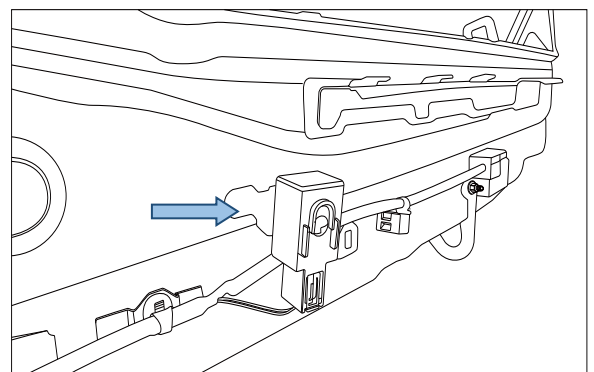


5. Carefully unclip and remove bumper from corners by depressing bumper clips along the perimeter of the bumper.

Set bumper aside in a safe location.

6. Disconnect sensor (shown) from rear panel. Carefully flatten sensor bracket or cut off using an appropriate cutting tool.

Sensor will be mounted to towbar later.



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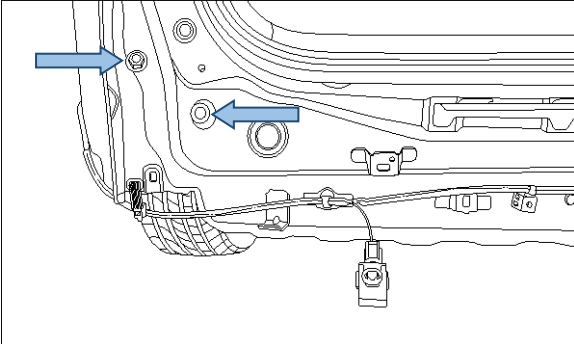
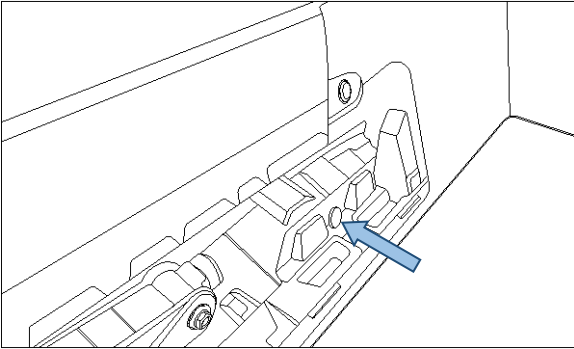
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<p>7. Remove 2 x hex head screws from rear panel as shown.</p> <p>Repeat for opposite side and discard screws.</p>	
<p>8. Fold rear seats forward and partially unclip rubber trim around boot opening.</p>	
<p>9. Inside boot well, unclip cover on rear most panel to expose tire jack. Remove 1 x push in plastic clip along bottom edge of panel.</p>	

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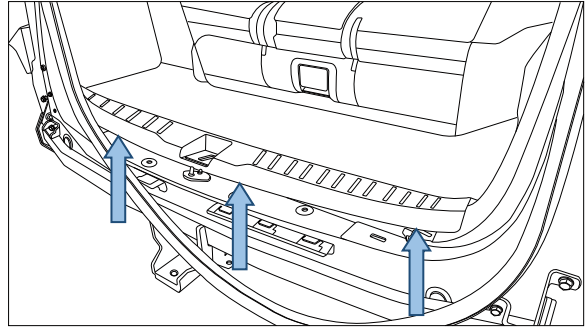
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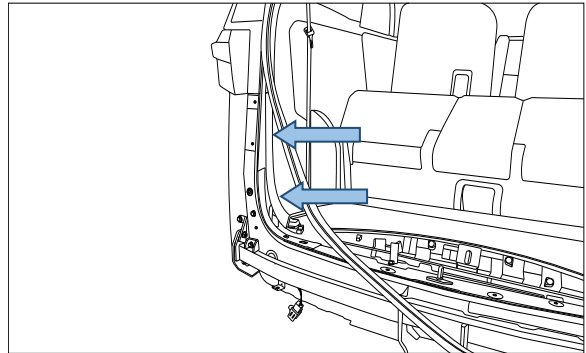
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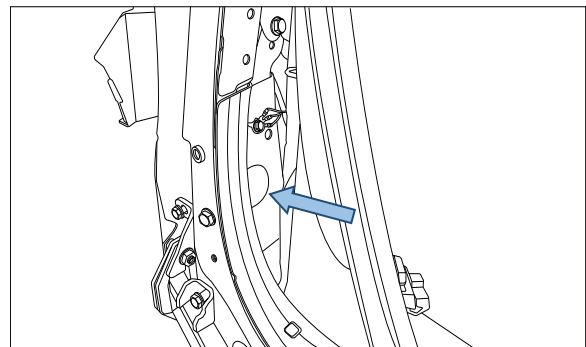
10. Carefully unclip plastic trim from top edge of boot opening by gently pulling trim upwards.
Set trim aside.



11. Carefully unclip trim on side wall of boot well along the rear most edge.
Repeat for opposite side.



12. Remove 1 x rubber cover from behind trim unclipped in Step 11 to expose top of chassis rail.
Repeat for opposite side.



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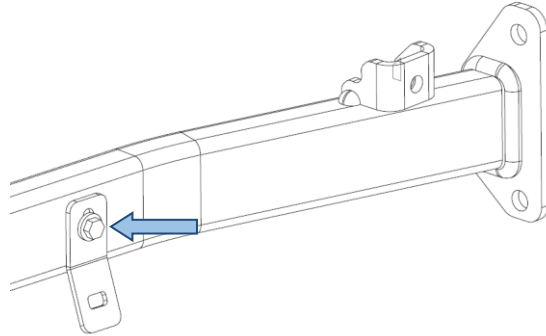
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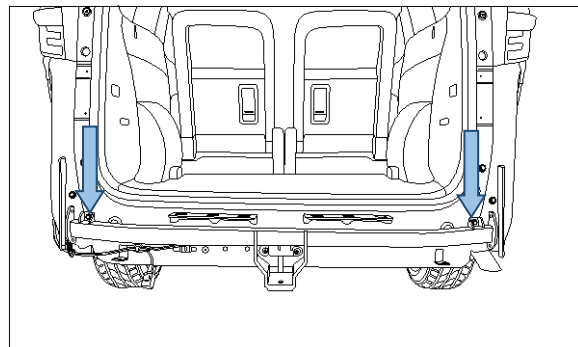
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13. Attach new sensor bracket to LH rear face of towbar with 1 x tek screw.

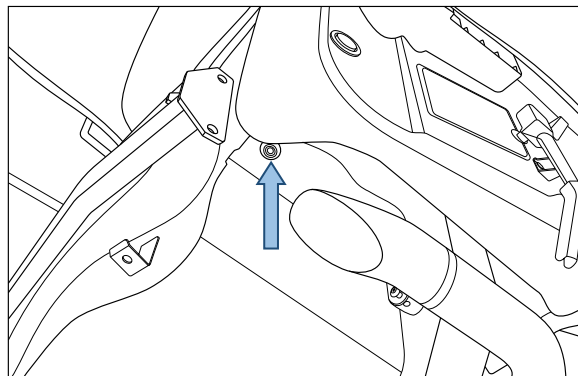


14. Lift centre welded assembly up to rear panel of vehicle and loosely secure to panel with 2 x M8 x 70mm bolts complete with 1 x washer and 1 x 5mm spacer per bolt (**Note:** Spacer is placed between towbar and rear panel)



15. Remove 1 x plastic cover from underside of chassis rail covering mounting point.

Repeat for opposite side.



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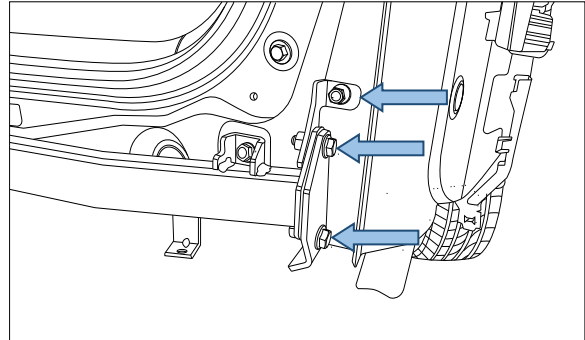
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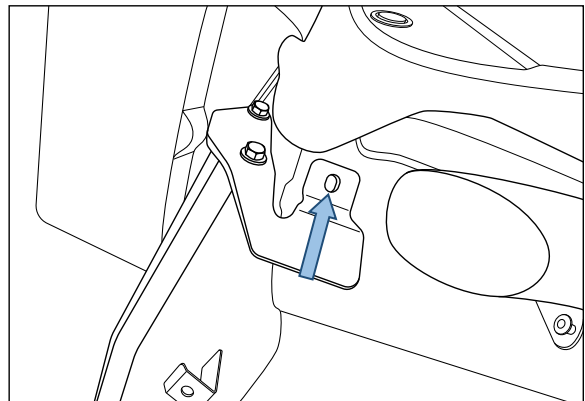
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16. Loosely secure side arm brackets to towbar (refer to exploded diagram on page 3) with 2 x M10 x 35mm bolts complete with 2 x M10 washers and 1 x M10 nut.

Loosely secure bracket to rear panel with 1 x M8 x 35mm bolt complete with 1 x M8 washer.

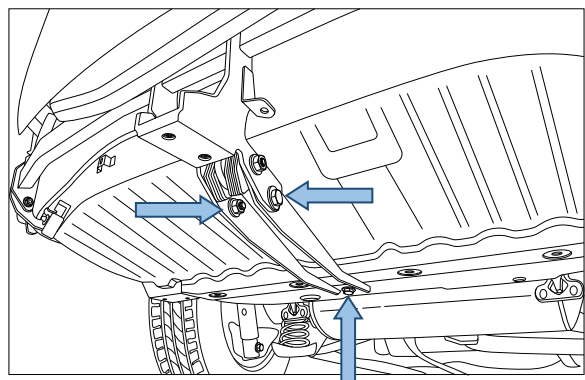


17. Loosely secure side bracket to chassis rail with 1 x M10 x 110mm bolt with 1 x M10 washer, inserted from the bottom face of the chassis rail and secured from within boot well to top of chassis rail (Refer to Step 12) with 1 x M10 washer and 1 x M10 nut.



18. Loosely secure Tire Well bracket to centre of welded assembly with 2 x M12 x 35mm bolts complete with 2 x M12 washers and 1 x M12 nut.

Secure front end of bracket to underside of vehicle tire well with 1 x M10 x 35 mm bolt complete with 1 x M10 washer.



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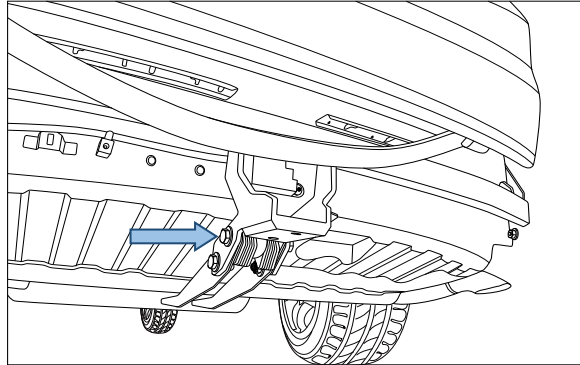
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19. Secure centre of towbar welded assembly to vehicle tow hook with 1 x M12 x 110 bolt complete with 2 x M12 washers and 1 x M12 nut. Use supplied spacer shims as required to create a tight fit to tow hook.



20. Secure the supplied bumper tabs to side of towbar droppers with 1 x M5 x 20mm bolt complete with 2 x M5 washers and 1 x M5 nut.

Tighten all bolts to the torques listed below:

M5: 5 N.m

M8: 31 N.m

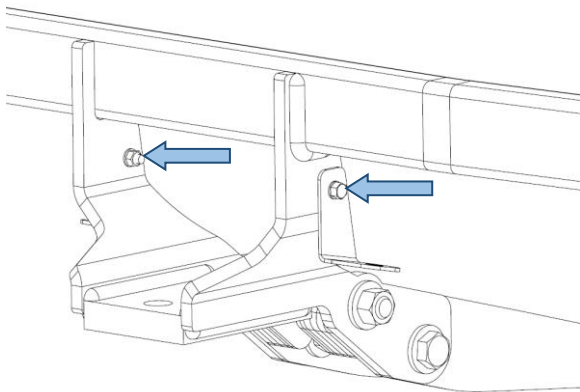
M10 x 1.25: 48 N.m

M10 x 1.5 (110mm): 44 N.m

M12 x 1.25: 89 N.m

M12 x 1.75 (110mm): 77 N.m

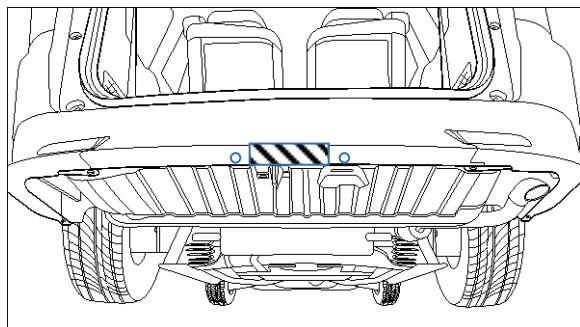
M16 (Lug): 197 N.m



21. Identify the centreline of the bumper. Using the supplied template, mark and cut the bumper using an appropriate cutting tool.

Drill 2 x M12 holes as specified on template used to secure bumper to bumper tabs.

Clean cut area and both holes after to ensure there are no sharp edges or burrs.



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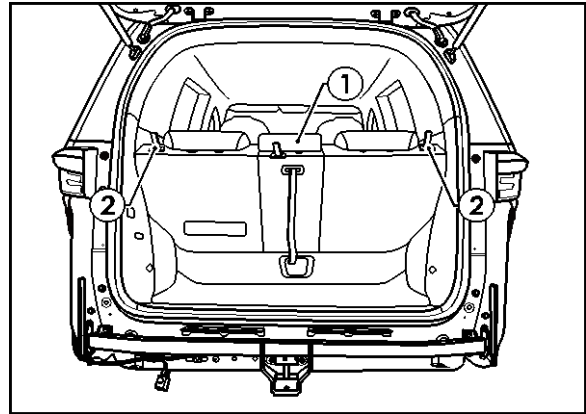
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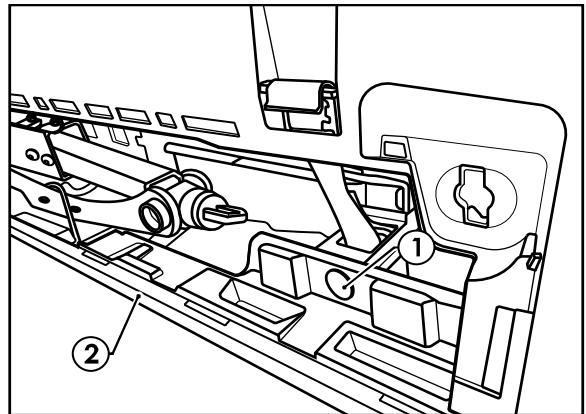
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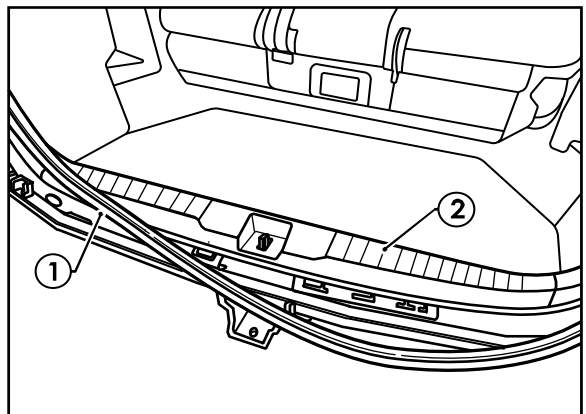
22. In the boot, fold down the rear seats (1) by lifting the straps (2).



23. Remove the jack cover.
24. Remove the fur tree clip (1) securing the rear scuff trim (2).



25. Loosen a small section of the weather seal (1) from the boot liner.
26. Remove the rear scuff trim (2) by pulling in an upwards direction.



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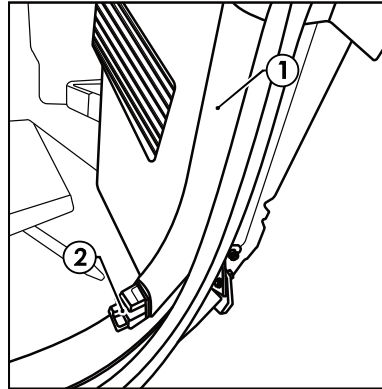
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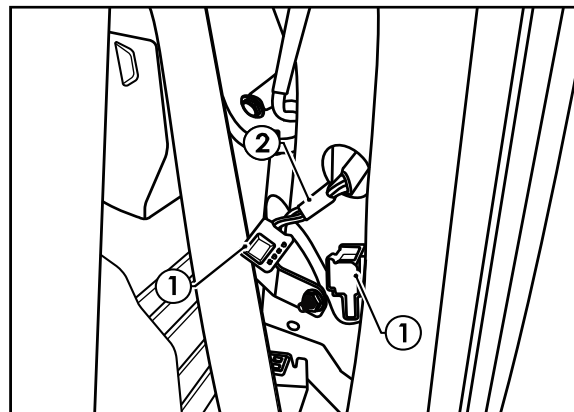
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27. Dislodge the RHS trim (1) by pulling from the bottom corner (2) near where the scuff trim was seated.
28. Unclip RHS trim up to the D-pillar. Repeat for LHS.

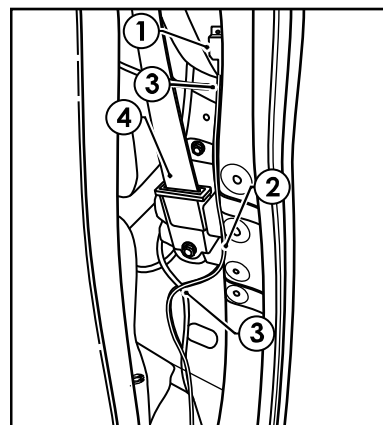


29. At the rear right tail light, locate the 4-way tail light connectors (1).
30. Remove the small length of tape (2) on the tail light side of the 4-way connectors (1).
31. Following the table below, connect the ezy-tap to the mating harness wire. Connect the trailer patch(102010-WL) wire to the ezy-tap

Function	Trailer Patch	Vehicle Harness
Right Indicator	Green/ Black	Yellow



32. Reconnect RHS tail light connectors (1) and route green/ black wire (2) under the carpet across to the LHS floor area.
33. Tie up patch harness (2) using the supplied Cable Ties (3) to prevent the patch getting caught in the seat belt (4).



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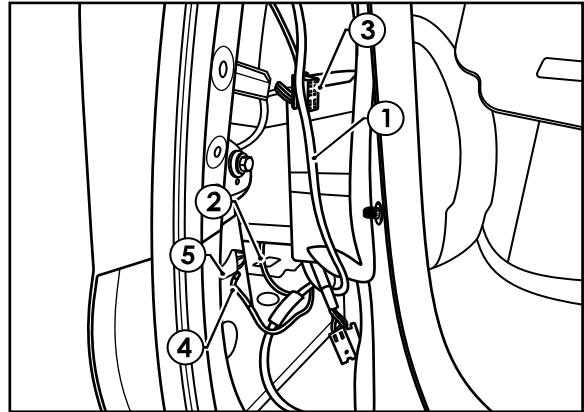
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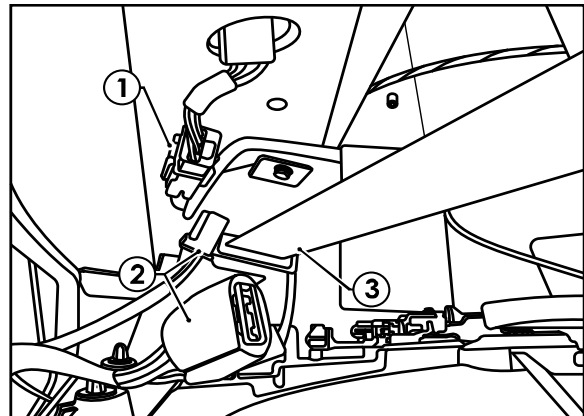
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34. Route the 4-way T-patch (1) to the LHS connectors.
35. Route the orange power wire (2) to the small rear fuse box.
36. Route the ECU connector (3) to the sheet metal area above the storage compartment.
37. Connect the vehicle earth terminal (4) to the factory earthing location (5).

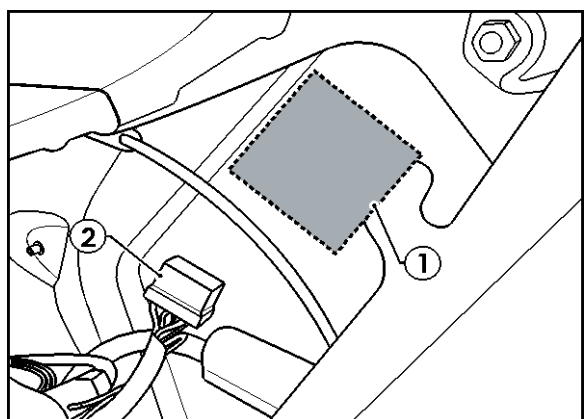


38. Near the rear left tail light, disconnect the white 4-way connectors coming from the tail lamp (1).
39. Patch in the mating connectors on the trailer patch (2).
40. Tie up patch harness using the supplied Cable Ties to prevent patch getting caught in the seatbelt (3).



41. Using an alcohol wipe, clean the LHS inner sheet metal area (1) and the underside of the ECU (04836).
42. Connect the trailer patch 12-way connector (2) to the ECU.
43. Apply double sided tape to the ECU and secure it to the vehicle sheet metal (1).

Note: Ensure when mounting ECU, connector is orientated downwards.



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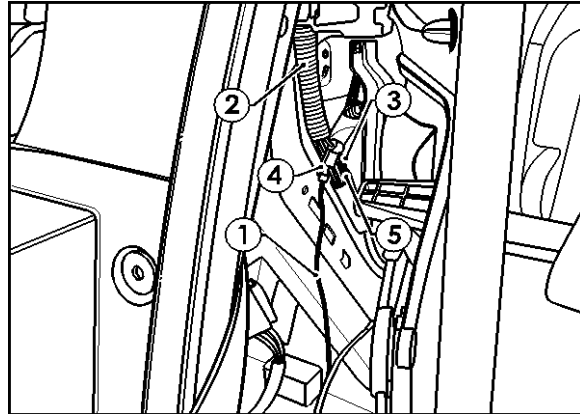
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44. For reverse connection, route the trailer patch black/ white wire branch (1) towards the D pillar. Locate the harness that runs towards the vehicle tailgate (2) and remove covering (3).

45. Following the table below, connect the ezy-tap (4) to the mating harness wire (5). Then connect the trailer patch wire (1) to the ezy-tap (4).

Function	Trailer Patch	Vehicle Harness
Reverse	White/ Black	Beige

46. Tie up patch harness using the supplied Cable Ties to prevent the patch getting caught in the seatbelt.



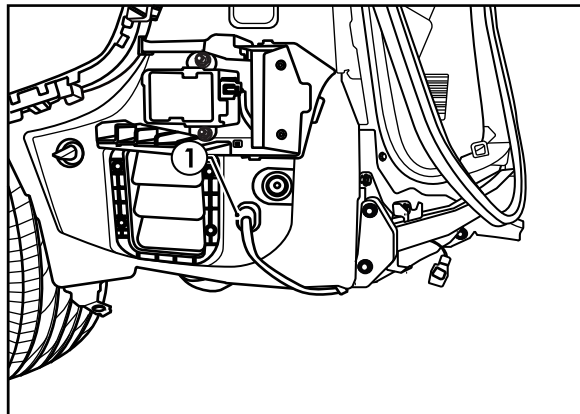
47. With the rear bumper removed, locate the vehicle blanking grommet (1).

48. Remove the blanking grommet and route tail harness (tail length 1200mm) up through grommet hole.

49. Seat tail harness grommet in 30mm hole and route to trailer harness blue connector on wiring loom.

50. Connect the tail harness 8-way connector to the trailer patch mating 8-way connector.

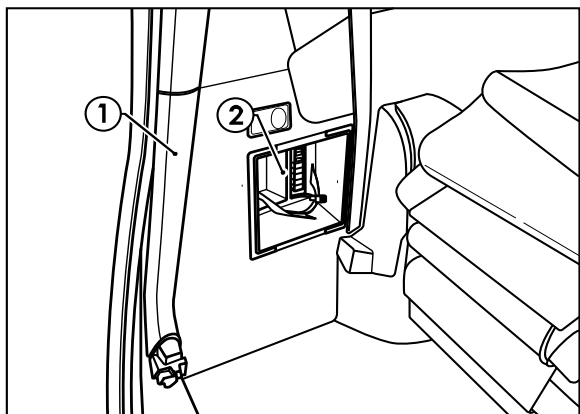
Note: Keep harness routing clear of all sharp edges, moving parts and places of extreme heat.



51. Reinstall LHS trim (1).

52. Remove vehicle storage cover.

53. Remove rear fuse cover (2).



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HAYMAN REESE

PART No: 03243W

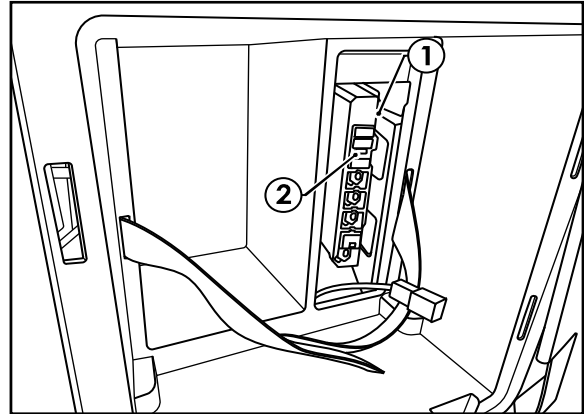
HONDA ODYSSEY 5TH GEN CL2

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT
PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION IS COMPLETED

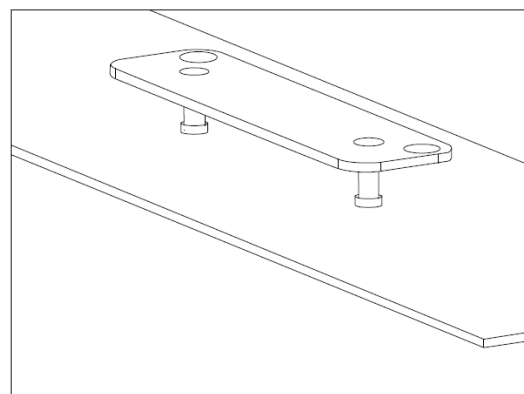
54. Pick up the orange power wire routed the small rear fuse box earlier (1).
55. Insert the supplied 20Amp fuses into the add-a-fuse and then insert the add-a-fuse into the blank fuse location (2).
56. Connect the 1-way connector on the add-a-fuse, to the 1-way connector on the patch harness (2).

Note: To maintain correct electrical operation, ensure you insert the add-a-fuse fuse into the allocated slot.



57. Secure tail harness to towbar.
58. Test the trailer patch function using a light board or multi-meter.
59. Secure all harness using supplied Cable Ties.
60. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
61. Place the fitting instructions in the glove box after fitment.

62. Mark out and drill 2 x \varnothing 5mm holes 69mm apart on bumper skin to support plug bracket.
63. Re-install all components following steps 1-7 in reverse. Attached bumper to bumper tabs on towbar through newly drilled holes with 2 x scrivenets supplied.



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FITTING INSTRUCTIONS

Smart Pin (55070BL)

• These fitting instructions are supplied to ensure understanding of how the SMART PIN should be fitted and used correctly.

• Once installed, we recommend **ALL** instructions are kept and placed in the vehicle glove box.

NOTE: Routine maintenance and inspection of the towbar & SMART PIN is required. Regularly inspect for wear and check the tightness of the SMART PIN NUT. Follow instructions below to retighten the nut when necessary.

***Do not tow with your vehicle if the R CLIP or the SMART PIN NUT is loose or missing. Replacement parts are available from your Hayman Reese Distributor.**

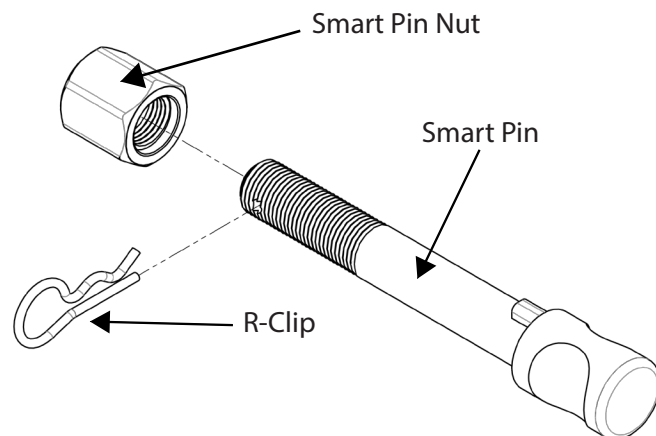
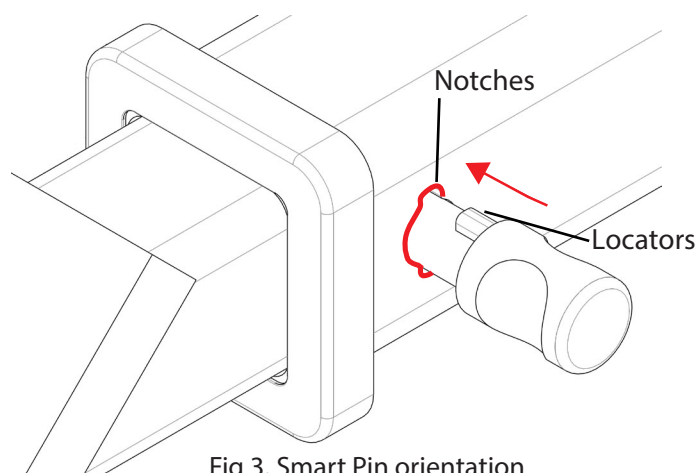
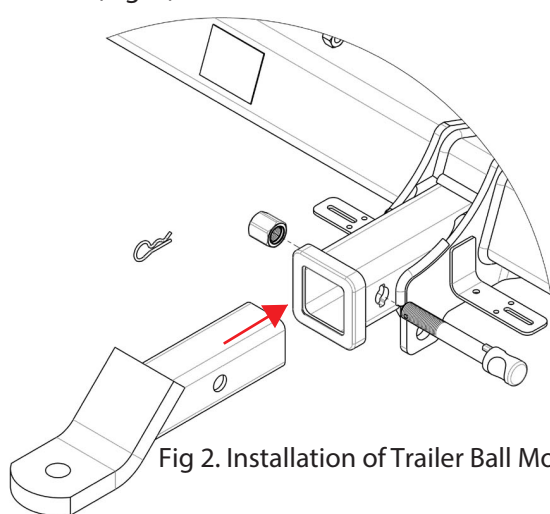


Fig 1. Smart Pin assembly

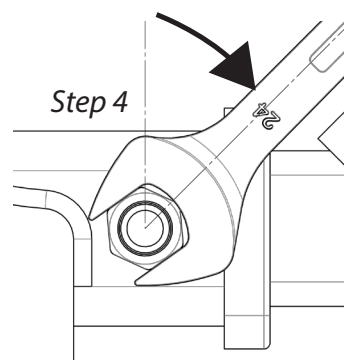
STEP 1 Insert Trailer Ball Mount (TBM) into towbar HITCHBOX, aligning hole in TBM SHANK with hole in HITCHBOX (Fig. 2).



STEP 2 Insert SMART PIN through hole in HITCHBOX and hole in TBM SHANK; ensure the LOCATORS are inserted into the NOTCHES in the HITCHBOX (Fig. 3).

STEP 3 Screw SMART PIN NUT onto SMART PIN; tighten SMART PIN NUT until finger tight, ensuring TBM is restrained from movement.

STEP 4 Tighten SMART PIN NUT by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig 4).



STEP 5 Install SMART PIN R CLIP through the hole on the SMART PIN (Fig. 1).

