



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03293W

FORD MONDEO, MD, HATCH/WAGON



PRODUCT DETAILS:

Part Number:	03293W	Maximum Towing Braked:	1600	kg
ECU Number:	WLE70003	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200 mm	Maximum Static Ball Load:	160	kg
TBM/Lug Part Number:	07748			
Wiring Part Number:	WLL90012			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Hayman Reese SmartCODE Solution Required:	YES
Wiring Installation Time:	25 Mins.	RPA Disable/Other:	YES
Total Installation Time:	85 Mins.	Note:	
Bumper Cut Required:	Yes	<ul style="list-style-type: none">• RPA Accessory disable when vehicle is coded. (*see Appendix B for added information)• Electric brake input location: BLUE wire near vehicle pre-wire.	



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ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT.

i BEFORE YOU START:

Hayman Reese recommends that instructions are read completely prior to fitment. Check all hardware items have been included refer to assembly diagram. Please ensure this towbar is only fitted to vehicle models as per Hayman Reese application guide (www.haymanreese.com.au).

Bumper Cuts



Vehicle and bumper variations can and do occur during vehicle manufacture after initial towbar design. Fitment of towbar to vehicle and accuracy of bumper cut must be assessed prior to any bumper modifications made. Incorrect bumper cuts are not covered under Hayman Reese warranty.

NOTE: Bumper cuts need to be approached with care, refer to notes below.

- Bumper centreline – where the centreline of the bumper needs to be determined, the installer must assess centre point by measurement of bumper width or determining two symmetrical reference points to give centreline.
- Bumper edge – To assist with accurate bumper cut measurement, reference to the start of the bumper edge is now being commonly used.
 - Measure from bottom edge along bumper and around corner to the 70 mm point (Figure 1).
 - Do not measure from visible bumper front of corner, upwards (Figure 2).

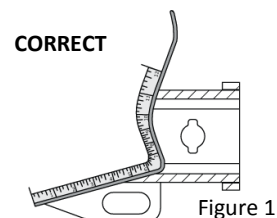


Figure 1

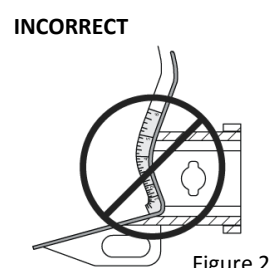


Figure 2

Drilling

- For any required drilling during installation, ensure that the area is clear of fuel, electrical & other components that may be damaged.
- All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.

Bolts/Fasteners

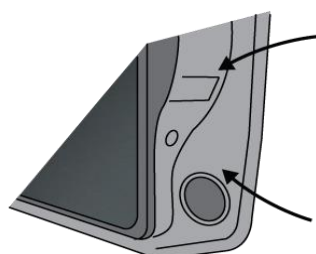
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



NOTE: Achieving correct torque is critical to proper installation and responsibility of the installer. Towbar failures attributed to tension issues from over tightening or under tightening are not covered by Hayman Reese warranty.

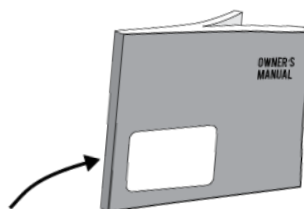
Product Labels

- a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.
- b. Powertrain Control Module (PCM)/Body Control Module (BCM) upgrade warning label will be provided in towbar kit for vehicles as required. Affix warning label in door and owner's handbook.



Place **Load Rating sticker** inside driver's door here

Place **Vehicle PCM/ BCM upgrade warning label** in door AND on front cover of owner's service handbook



WARNING:

Do not, drill, cut, weld or otherwise modify the towbar.

FOR TOWING PURPOSES ONLY - This towbar is designed and tested by Hayman Reese to adhere to ADR 62/02 which provides only for the expected load demands of towing.

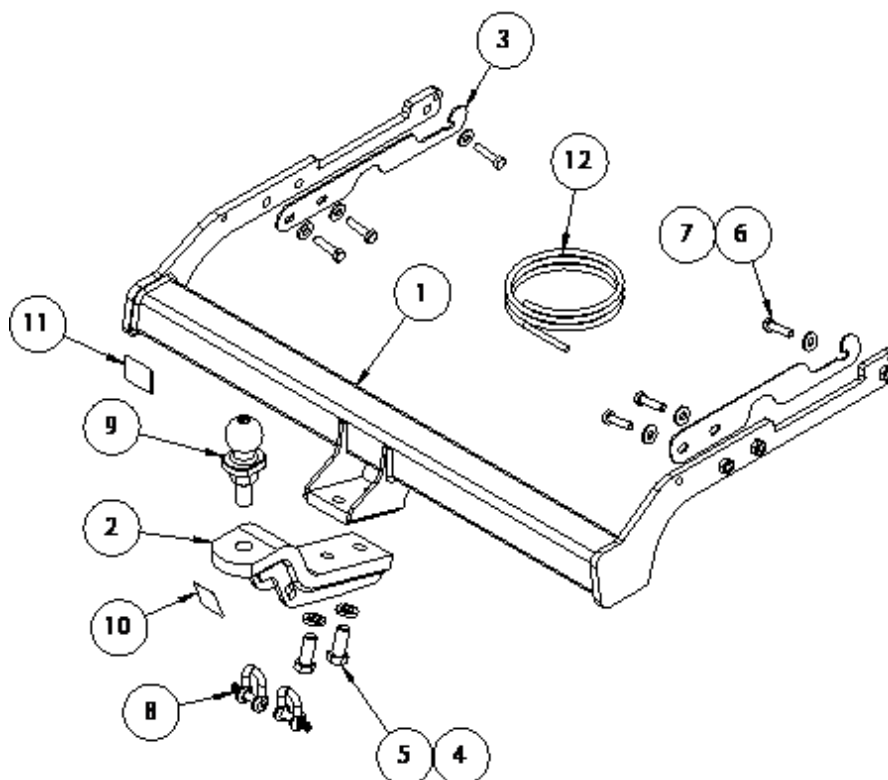


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TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	WELDED CENTRE SECTION	1
2	TONGUE ASSEMBLY	1
3	WASHER PLATE	2
4	SPRING WASHER M16x5x3.5	2
5	SET SCREW M16-2.00x40 Z/P	2
6	BOLT M10-1.5x40mm	6

ITEM	DESCRIPTION	QTY
7	WASHER FLAT M10x25.4x3	6
8	10mm "D" SHACKLE	2
9	HR TOWBALL	1
10	H.R STICKER	1
11	ACRYLIC COMPLIANCE LABEL	1
12	WIRING LOOM	1

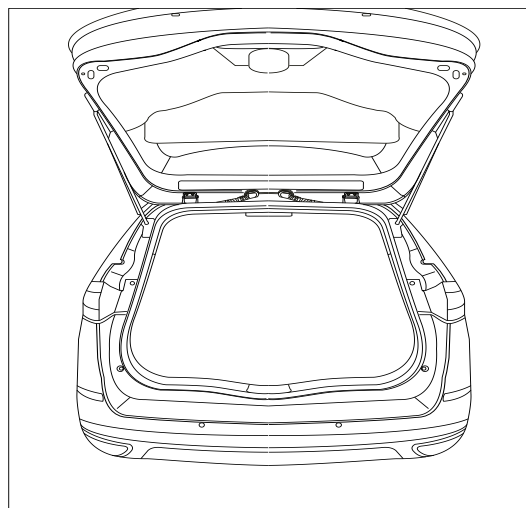


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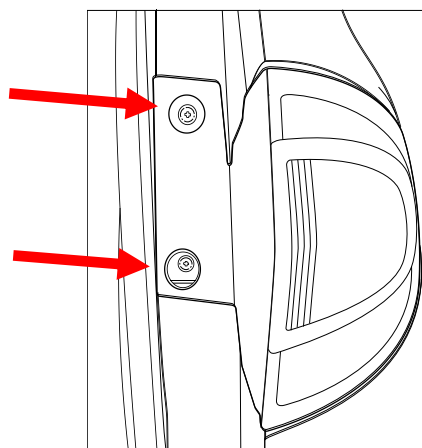
1. Open the rear tailgate.



2. Remove 2 screws from the RHS taillight, located on the outside for the wagon, and inside the boot for the hatch.

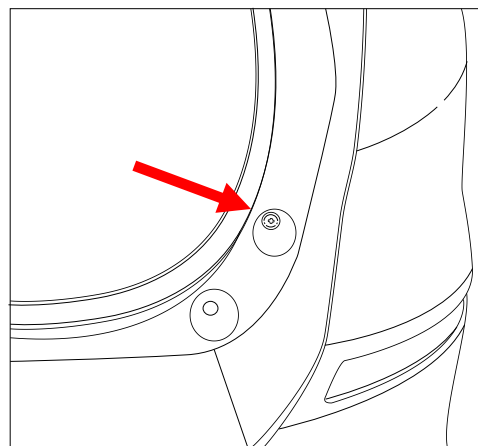
Dislodge the taillight & disconnect the wiring.

Repeat for lhs.



3. Remove 1 screw on the RHS of the bumper for the wagon.

Repeat for lhs.





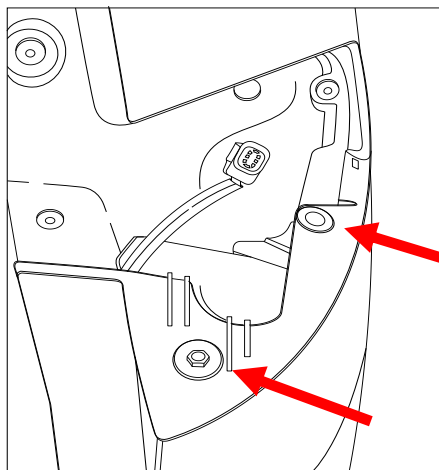
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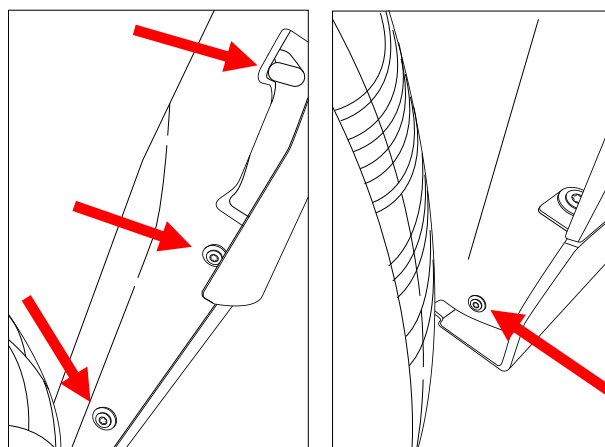
4. Remove 2 scrivets located in the RHS taillight bumper cavity.

Repeat for lhs.



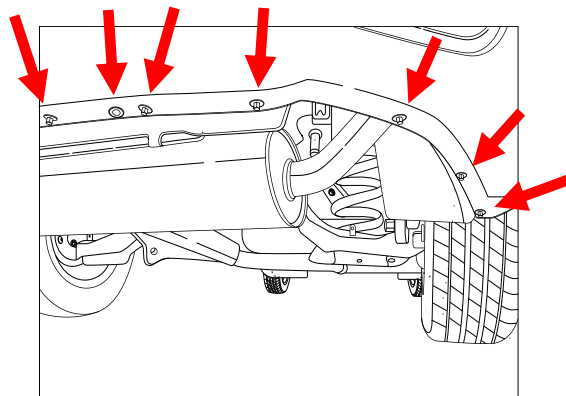
5. Remove 4 screws in the RHS wheel arch.

Repeat for lhs.



6. Remove 6 screws and 1 scrivet located on the underside of the RHS bumper.

Repeat for lhs.





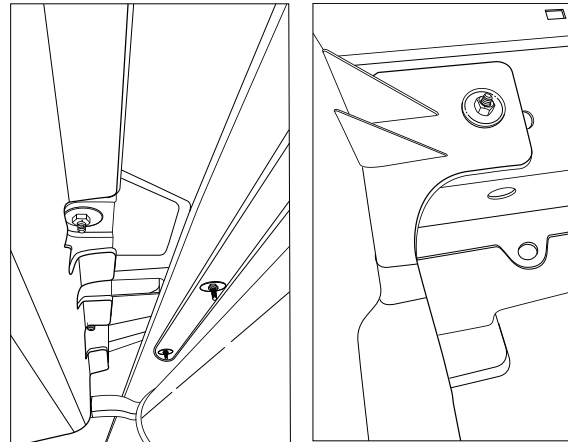
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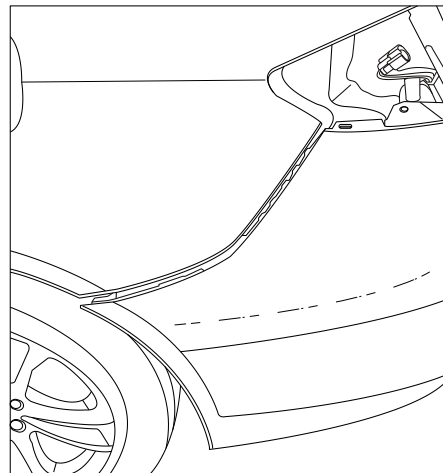
FORD MONDEO, MD, HATCH/WAGON

7. Remove 4 flange nuts from the underside of the rear diffuser.

Set aside the rear diffuser.



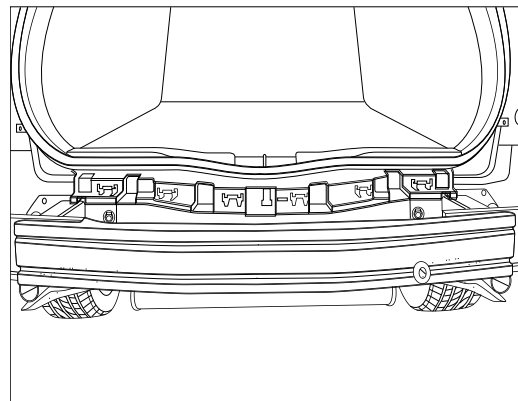
8. Unclip the bumper and set aside.



9. Remove 4 bolts from the RHS of the intrusion beam.

Remove 3 bolts from lhs of the intrusion beam.

Discard the impact beam and bolts.



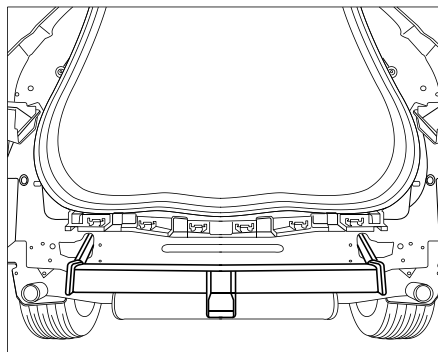


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10. Offer the main towbar assembly to the vehicle.

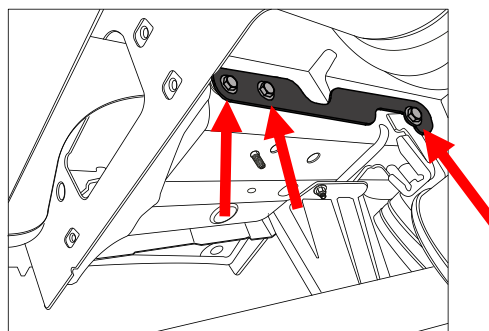


11. Place the supplied washer plate on the outside of the chassis rail.

Mount 3 bolts through the chassis rail per side.

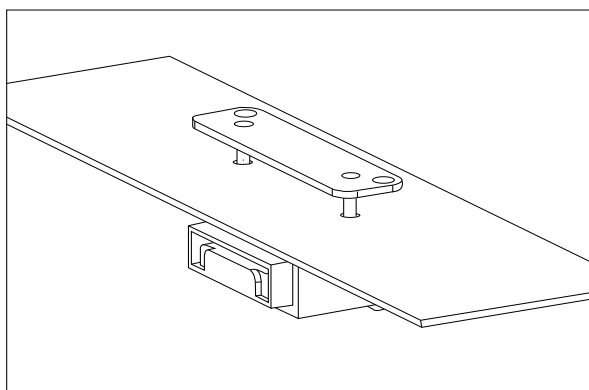
Torque bolts to the following specification:

M10 bolts torque to 48nm



12. Make bumper cut using Template (Appendix A).

13. Determine an appropriate position for the plug bracket. Mark out and drill 2x \varnothing 5mm holes 69mm apart on bumper skin to support plug bracket.



IMPORTANT

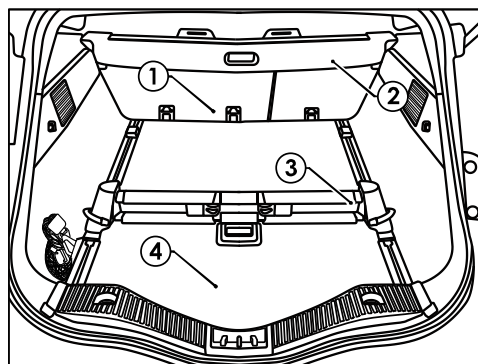
Due to possible vehicle variations, always confirm any noted vehicle colour wires with a multi-meter to ensure the correct function is identified before soldering or scotch locking. For vehicle wires denoted with two colours (example; RED/GREEN) the first colour will always be the main wire colour while the second colour is the thinner trace colour on the wire.

14. In the boot, fold down the rear seats (1).

15. Remove the rear sunshade (2).

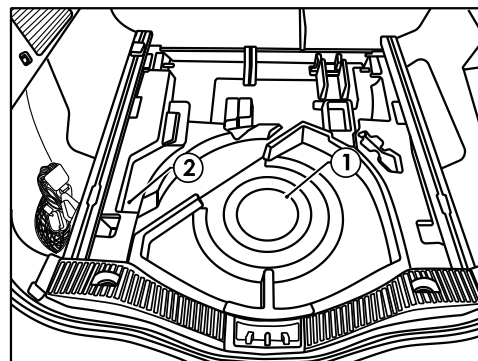
16. Remove the cargo holder (3).

17. Remove the floor cover carpet (4).



18. Remove the centre foam covering the spare tyre (1).

19. Remove the LHS foam piece (2).





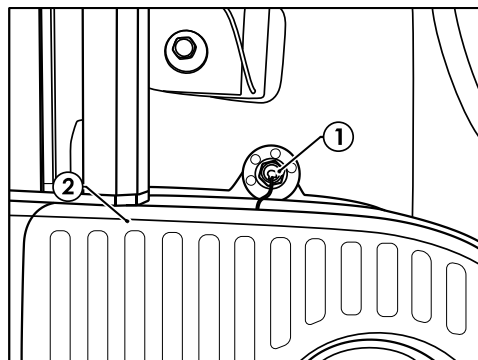
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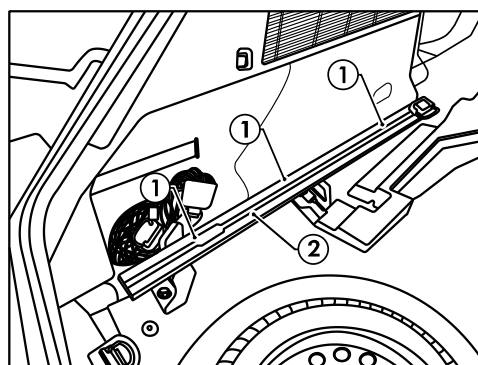
FORD MONDEO, MD, HATCH/WAGON

20. Remove the two screw caps (1) securing the rear scuff trim (2).

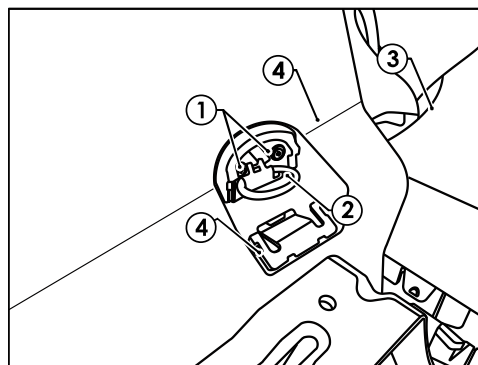
21. Remove the rear scuff trim by pulling firmly in an upwards direction.



22. Using a T40 Torx bit, remove the three screws (1) securing the LHS cargo holder rail (2).



23. Remove the two T40 torx screws (1) securing the luggage mount (2) behind the LHS rear passenger seat (3) by first removing the cap (4).





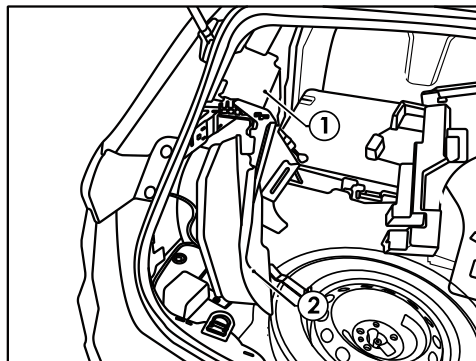
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24. Dislodge the Rear LHS boot upper trim (1) using a trim removal tool.

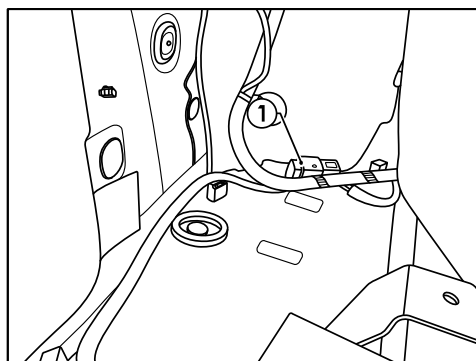
25. Dislodge the rear LHS carpet trim (2).



26. Locate the grey vehicle CAN connector (1).

27. Connect the female connector on the Patch Loom WLL90012 to the mating vehicle CAN connector.

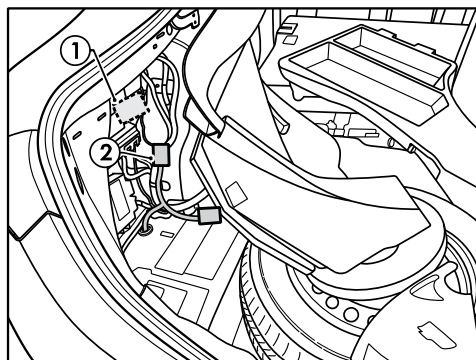
28. Discard the blank connector previously connected to the vehicle can connector.



29. Using an alcohol wipe, clean the LHS inner sheet metal area (1) and the underside of the ECU (WLE70003).

30. Connect the patch loom 18-way connector (2) to the ECU.

31. Apply double sided tape to the ECU and secure it to the vehicle sheet metal.



Note: mount the ECU, ensuring the connector is orientated downwards.

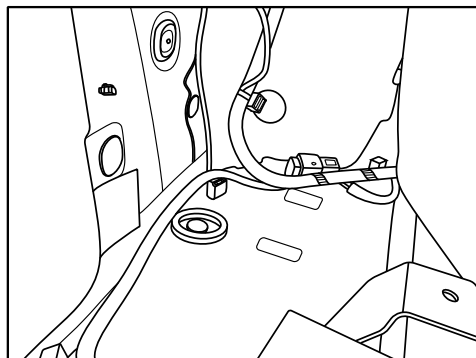


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32. Drill a 30mm grommet hole in a suitable location to enable the tail harness to be routed from the towbar to the ECU.

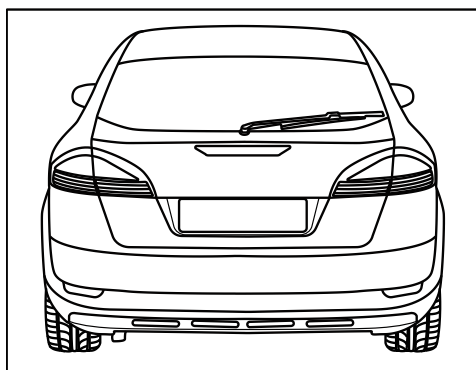


33. With the rear bumper removed, secure tail harness to towbar.

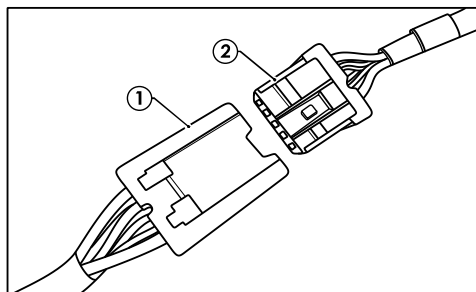
34. Route tail harness up through chassis rail and previously drilled grommet hole.

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

Note: keep harness routing clear of all sharp edges, moving parts and places of extreme heat. Ensure grommet is seated correctly and makes a good seal.



36. Connect the tail harness (tail length 1200mm) 8-way connector (1) to the trailer patch mating 8-way connector (2).





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37. Secure the harness using supplied Cable Ties.
 38. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
 39. Refit the bumper onto the vehicle.
Attach plug bracket to underside of bumper using 2 x M4 nuts provided.
Attach plug to bracket.
 40. Next Step is coding of vehicle. Pay attention to the "SmartCode" Instruction (Appendix B).
 41. Test the trailer patch function using a light board.
 42. Place the fitting instructions in the glove box after fitment.
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CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE
VEHICLE'S GLOVEBOX AFTER INSTALLATION

**THANK YOU FOR PURCHASING HAYMAN REESE.
WITH CORRECT MAINTENANCE AND CARE THIS PRODUCT WILL PROVIDE A
LIFETIME OF TROUBLE-FREE OPERATION.**

TOWBAR MAINTENANCE AND CARE:

1. Hayman Reese recommend that the towbar LUG or TBM (tow ball Mount) Pull Pin and R-clip are removed and stored when not in use. Removal of LUG or TBM (tow ball mount) is advisable when not in use to assist with any of the following.
 - Ensure rear number plate is not obscured.
 - Allow maximum available departure angle and prevent any potential interference.
 - Prevent possible interference with vehicles reverse sensors or camera detecting a tow ball mount as an obstruction during reversing.
 - Removes towball mount as an obstruction for when moving around the rear of the vehicle.
2. Hayman Reese recommends routine inspection of your towbar to ensure trouble free towing.
 - Bolt security and tension should be regularly inspected and checked for correct tension. Replace any worn or defective parts with suitable grade & class fasteners. Inspection should be requested to coincide with vehicle major services.
3. It is the owner's responsibility to ensure towing and down ball weight capacities of the towing vehicle are not exceeded.
 - Towing and down ball weights allowable may differ according to model variations. Please refer to owner's manual or vehicle dealer to confirm exact rating for your vehicle model variant.
 - It is not uncommon for the vehicle tow rating to differ from the towbar rating. When this occurs, the lesser rating must be adhered to.
 - For vehicles fitted with enhanced vehicle functions that may be altered/changed when towing i.e Trailer sway mitigation, blind spot detection, adaptive cruise control etc. Please consult owner's manual to understand changes enabled when towing and after towing.



WARRANTY INFORMATION:

Hayman Reese Towbars are covered by a Lifetime Warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

For further details please visit www.haymanreese.com.au/warranty or contact customer service on 1800 812 017 or info@haymanreese.com.au.



CUSTOMER INFORMATION

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HAYMAN REESE SMART PIN

Your Hayman Reese towbar is equipped with Smart Pin technology to help reduce towbar tongue rattle in most driving conditions. Please ensure below instructions are understood and routine maintenance is carried out to ensure best towing experience.

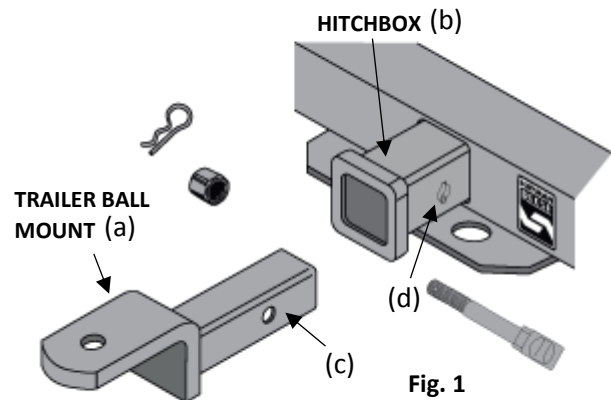
i Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- Before towing, ensure R-Clip is properly installed and Smart pin nut is installed and tensioned. Replacement parts are available from your Hayman Reese Distributor.

TOWBALL MOUNT REMOVAL/INSTALLATION

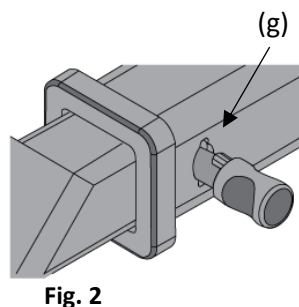
STEP 1

Insert Trailer Ball Mount (TBM) (a) into towbar hitchbox (b), aligning hole in TBM shank (c) with hole in hitchbox (d) (Fig. 1)



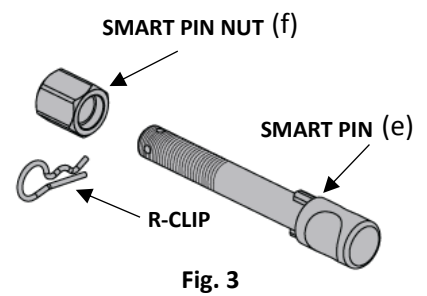
STEP 2

Insert Smart Pin (e) through hole in hitchbox and hole in TBM shank (g); ensure the locators are inserted into the notches in the hitchbox (Fig. 2)



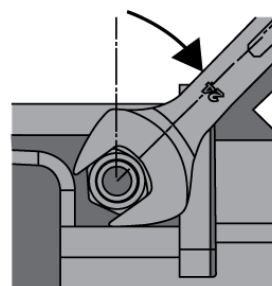
STEP 3

Screw Smart Pin Nut (f) onto Smart Pin (g); tighten Smart Pin Nut until finger tight, ensuring TBM is restrained from up and down movement.



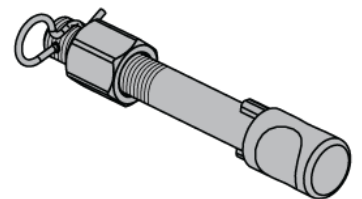
STEP 4

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 that provides best clearance or easiest access. (Fig. 5)



HAYMAN REESE

PART No: 03293W

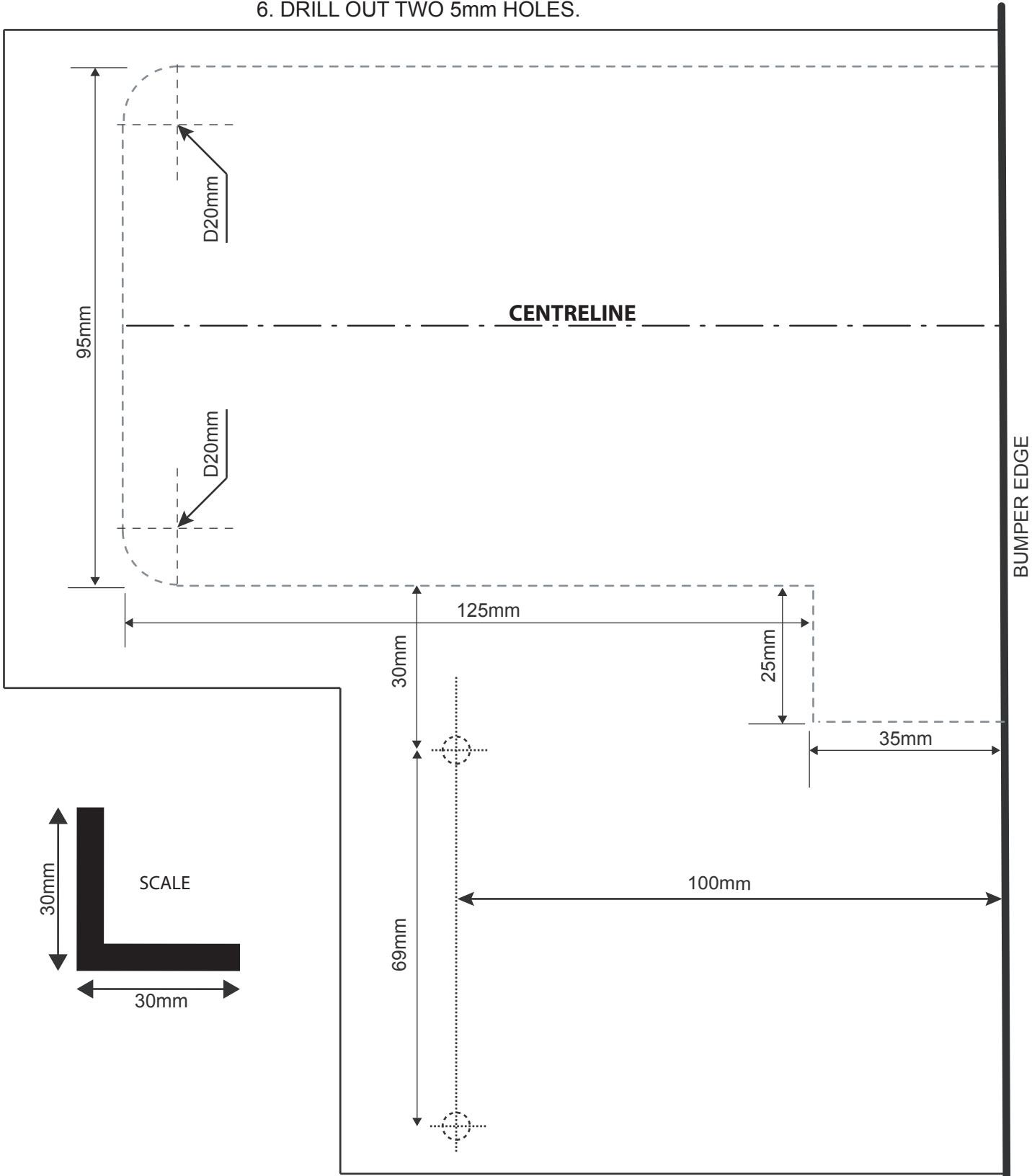
FORD HATCH/MONDEO WAGON INSTALLATION INSTRUCTIONS

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

FORD MONDEO HATCH/WAGON BUMPER CUT TEMPLATE

1. CHECK THE TEMPLATE IS TO SCALE.
2. FIND THE CENTRE OF THE BUMPER.
3. ALIGN THE CENTRELINE OF THE TEMPLATE WITH THE CENTRE OF THE BUMPER.
4. DRILL OUT THE TWO 20mm HOLES.
5. CUT ALONG THE DOTTED LINES.
6. DRILL OUT TWO 5mm HOLES.

NOTE: MEASURE THE TEMPLATE TO CHECK IF TO SCALE



APPENDIX B



WARNING: This vehicle requires a system setting to ensure the trailer wiring and control module are correctly recognised. This process (referred to as 'coding') must be carried out to enable correct vehicle functionality when trailer is connected. Towing features enabled by correct control module and coding support OE functionality as set by OE manufacturer. Please read the vehicles owner's manual for proper operation and understanding.

Coding can be carried out using the Hayman Reese SmartCODE (HRSC) using the following steps. Note, if HRSC is unavailable, vehicle coding can be carried out by OE manufacturer as needed.

Before you start:

- **Ensure the HRSC software is up to date using the HAYMAN REESE SMARTCODE PC APP.**
 - **Ensure the vehicle battery is fully charged**
 - **Use of a battery support unit (BSU) is advised during the coding process.**
 - **Ensure towbar, wiring loom and ECU are correctly installed as per Hayman Reese fitting instructions.**
1. Locate the OBD2 port under the drivers footwell on the right-hand side and plug in the HRSC.
 2. Close all doors and turn the ignition on
 3. Follow the directions on the screen of the HRSC
 4. Once the vehicle has been coded successfully proceed to the "clear codes" tab
 5. Remove disconnect HRSC from OBD2 port.
 6. Check the dash to make sure there are no warning faults.
 7. Check the operation of trailer lights and ensure the Reverse Park Assist (RPA) is disabled and 'trailer on' icon is active where available.

For technical support and further information on Hayman Reese SmartCODE tool and coding process contact your nearest Hayman Reese stockist.

Australia: 1800 812 017

New Zealand: 0800 237 886