

INSTALLATION INSTRUCTIONS



R2480W-FI TO SUIT SUBARU MY09 FORESTER FROM 03-2008 PRODUCTION
R2480W-FI TO SUIT SUBARU MY09 IMPREZA SEDAN FROM 09-2008 PRODUCTION
ENSURE INSTRUCTIONS ARE UNDERSTOOD BEFORE INSTALLATION.

FORESTER TOW CAPACITY

Rating Braked 1600 Kg

Rating Unbraked 750 Kg

Max Static Ball Load 110 Kg to 160 Kg

IMPREZA SEDAN TOW CAPACITY

Rating Braked 1200 Kg

Rating Unbraked 650 Kg

Max Static Ball Load 75 Kg

Warning:

ENSURE THAT VEHICLE OWNERS MANUAL IS CONSULTED FOR CORRECT CAPACITY

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.

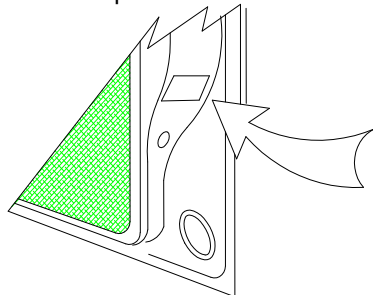
Tow bar Maintenance and Care.

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
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.

11. Remove rear bumper bar skin via

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- Remove 2 x plastic trim buttons from underneath bumper bar see fig 1.
- Remove 2 x plastic trim button on the under side of guard see fig2.
- Remove 2 x screws in the tailgate cavity see fig 3 for Forester model only.
- Remove 3 x screws in the inner wheel arch each side of the vehicle see fig 4.
- Remove 2 x plastic trim bottom in the vertical plane see fig 5 for Forester model only.
- Remove 2 x plastic trim plugs from mud guards one on the inside of the mudguard & one in the vertical plane on the other side of the mudguard see figs 6 for Forester model only.
- Unplug the reverse parking assist sensors if fitted.
- Flex bumper bar skin out at the sides then pull rearward to remove **Caution** two person lift required some force may be required store bumper on suitable stands.

Remove 2 x plastic trim buttons from under side of bumper bar Forester model only.



Fig 1

Remove 2 x plastic trim buttons from underside of mud guards.



Fig 2

Remove 1 x plastic trim button from underside of bumper bar Impreza model only.



Fig 4

Remove 3 x screws from inside each wheel arch.

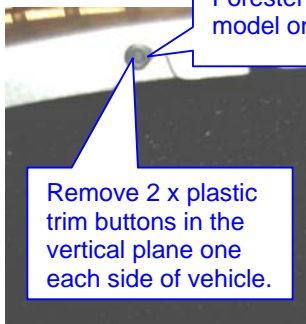


Fig 5

Forester model only

Remove 2 x plastic trim buttons in the vertical plane one each side of vehicle.



Fig 3

Remove 2 x screws from tailgate cavity one each side for Forester model only.

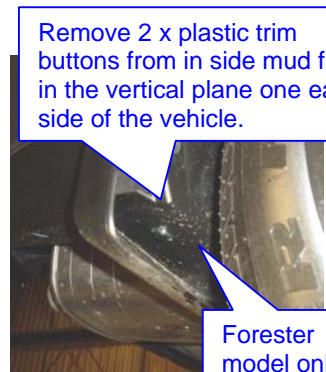


Fig 6

Remove 2 x plastic trim buttons from in side mud flap in the vertical plane one each side of the vehicle.

Forester model only

12. Remove rear impact beam via

- Remove 6 x M10 nuts retaining the impact beam then discard the nuts see fig 7.
- Pull the impact beam rearwards to remove then discard the beam see fig 7.
- Lower the two rear most mufflers from the 5 rubber exhaust hangers see fig 8.
- Crc spray can be used on rubber hangers for ease of removal.

Rear impact beam remove & discard.

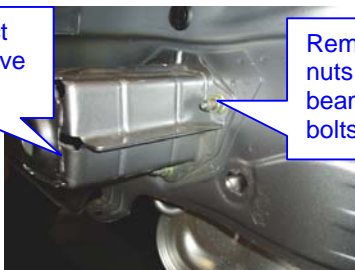


Fig 7

Remove 6 x M10 nuts retaining impact beam then discard bolts.



Fig 8

Lower the two rear mufflers by removing the rear rubber hangers in 5 places then let mufflers hang.

13. Remove rubber grommets via

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- a. Remove 2 x rubber grommets from the underside of the chassis rails two each side of the vehicle then discard the grommets see fig 9.
- b. If required drill out holes either side of the vehicle 13mm see fig 10



Remove 2 x rubber grommets from each side of the vehicle then discard.

Fig 9

Drilling is only required for vehicle variation test fit bar first before drilling.



Drill out holes 13mm in four places if required.

Fig 10

14. Fitment of towbar to vehicle via

- a. Fit loose 3mm plates to rear panel of vehicle so that holes align with studs see fig 11.
- b. Offer towbar to vehicle sub frame so that captive nuts on side plates align with existing holes in chassis rails see fig 10 & fig 12.
- c. Fit loose plates M12 x 35 bolts & spring washers provided loosely see fig 13.
- d. Fit M10 x 1.25P whizz nuts to the rear studs of the vehicle see figure 14 fasten all hardware to the torque listing.



Fit 3mm loose plates

Fig 11



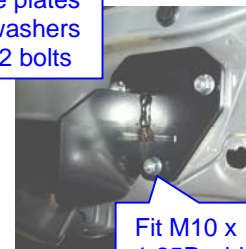
Offer towbar to sub frame

Fig 12



Fit loose plates spring washers with M12 bolts

Fig 13



Fit M10 x 1.25P whizz nuts each side of towbar.

Fig 14

15. Rear bumper bar cut detail for Forester model only.

- a. Place masking tape over the on centre section of bumper bar before marking out as shown in fig 15 for Forester model only.
- b. Mark out as shown in fig 15 then cut with suitable hacksaw or similar device.
- c. Ensure that all swarf & raw edges are removed.
- d. Refit the bumper bar in the reverse of steps 11 h through to 11a.
- e. Fit trailer ball mount part number 21161 with pull pin & spring cotter pin see fig 17.

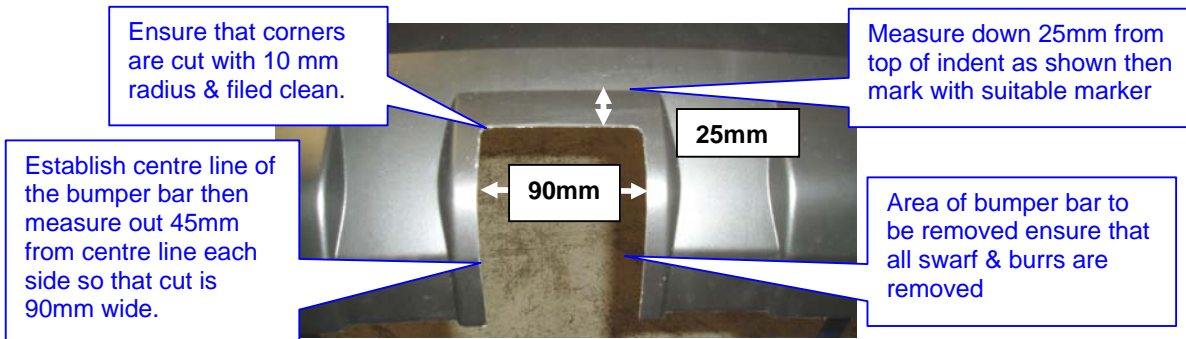


Fig 15 Bumper cut detail for Forester model

16. Rear bumper bar cut detail for Impreza model only.

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- Place masking tape over the on centre section of bumper bar before marking out as shown in fig 16 for Impreza model only.
- Mark out as shown in fig 16 then cut with suitable hacksaw or similar device.
- Ensure that all swarf & raw edges are removed.
- Refit the bumper bar in the reverse of steps 11 h through to 11a.
- Fit trailer ball mount part number 21161 with pull pin & spring cotter pin see fig 17.

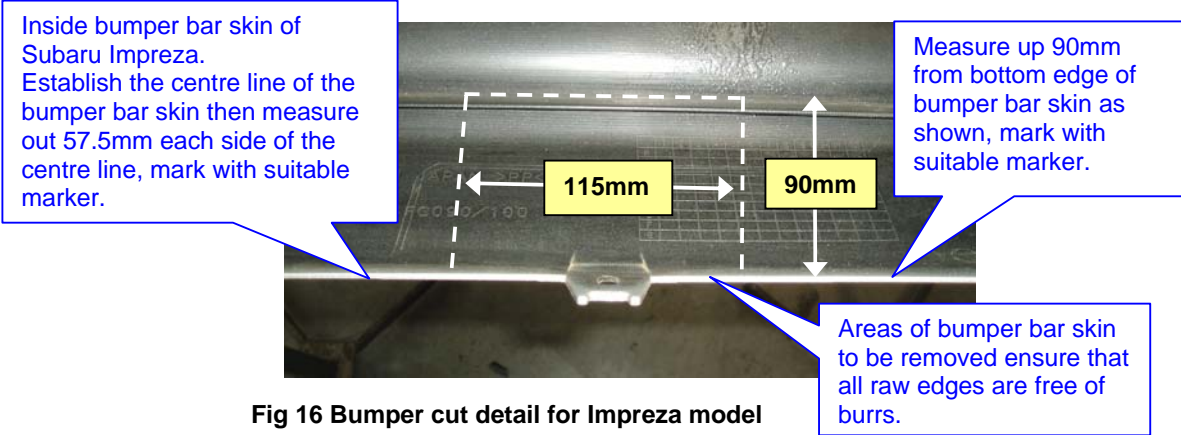


Fig 16 Bumper cut detail for Impreza model

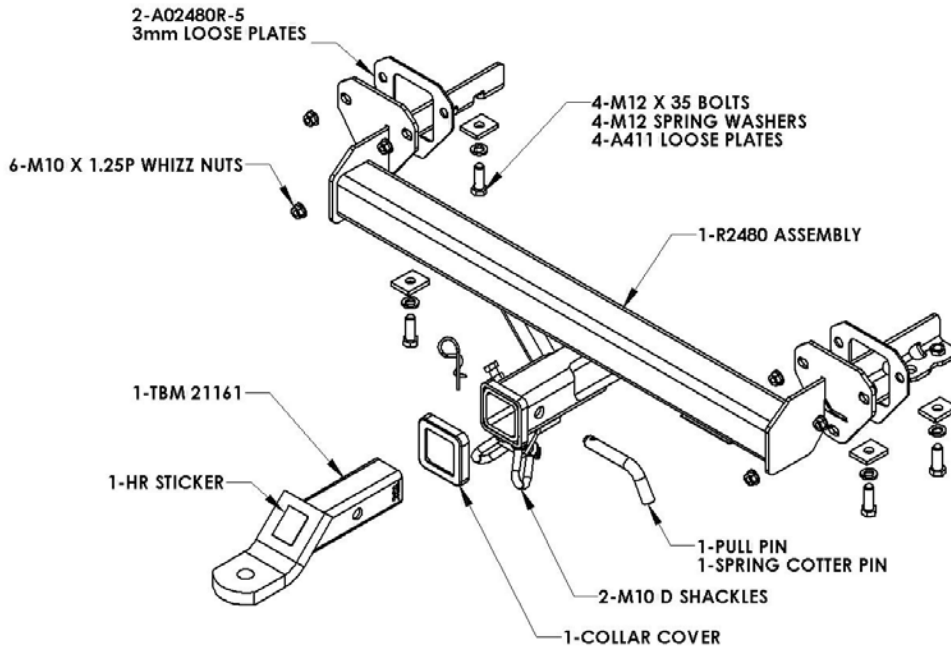


Fig 17

HAYMAN REESE
PART No: 100201-WL
SUBARU LIBERTY/OUTBACK
INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

Wiring Loom Installation Instructions

SUBARU LIBERTY/OUTBACK
Part No: 100201-WL

Tail Harness Length Required: 1200mm
RPA Override Switch Part No: 04848 (If Fitted)

Wiring Loom Installation Time: Approx 25 Mins

Issue Date 05-10-09

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Part No: 100201-WL

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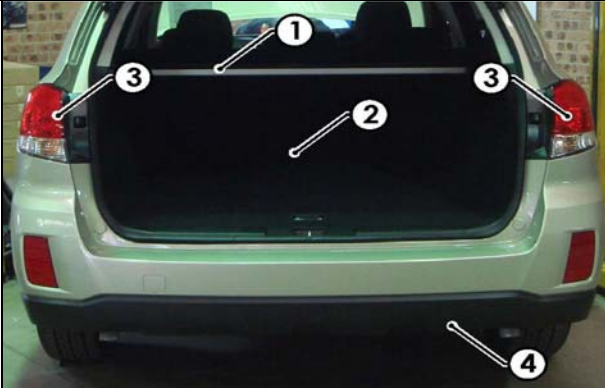
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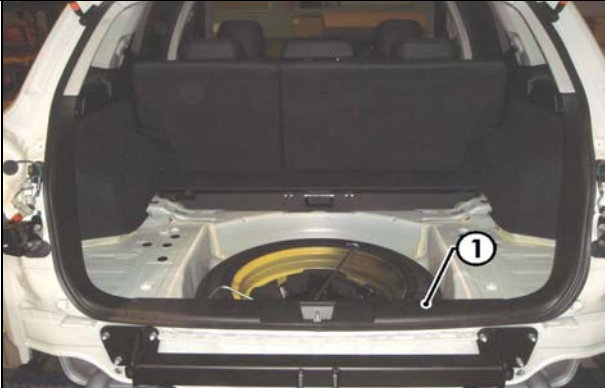
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PART No: 100201-WL
SUBARU LIBERTY/OUTBACK
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1. In the luggage compartment area, remove the rear sun shade (1), and all floor trims (2). Remove the LHS and RHS tail lights (3). Remove the rear bumper fascia fasteners and the rear bumper fascia (4).



2. Remove the rear trim (1).



3. Remove the rear passenger seat cushion (1).



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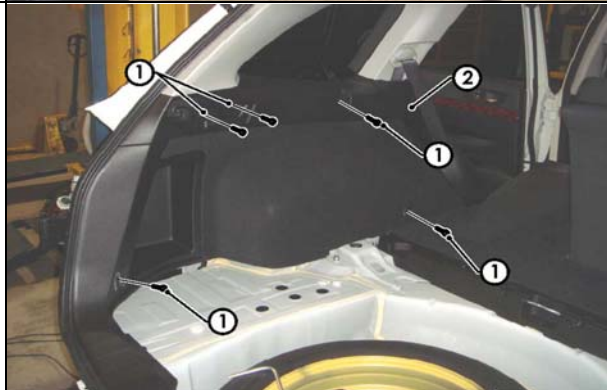
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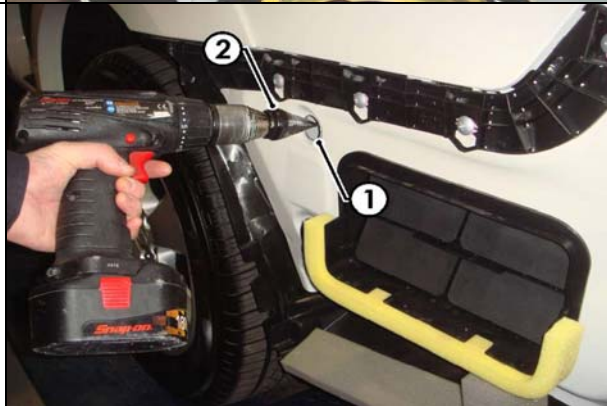
4. Remove the LHS rear passenger sill trim (1). Remove the two fasteners (2) from the LHS rear luggage compartment trim.



5. Remove the LHS luggage compartment trim fasteners (1) and then remove the LHS luggage compartment trim (2).



6. On the outer LHS rear quarter of the car, locate and remove the grommet near the vent. Widen the grommet hole (1) to $\text{Ø}30\text{mm}$ using a step drill (2). File the grommet hole of any rough edges and spray with rust inhibitor.



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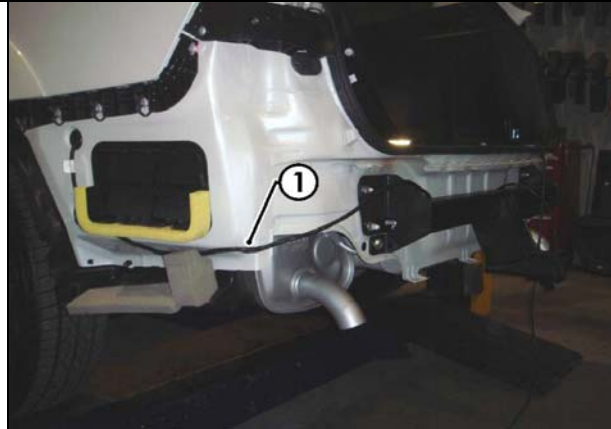
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7. Secure the Tail Harness socket (tail length 1200mm) (1) to the towbar mounting bracket using M4 fasteners.

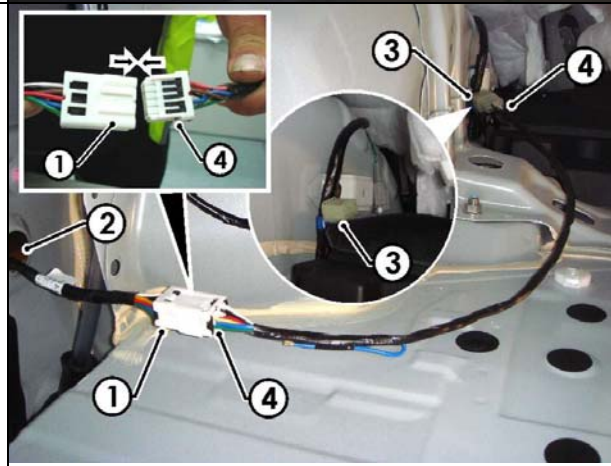


8. Route the Tail Harness (1) along the towbar and into the LHS rear quarter grommet.



9. Inside the luggage compartment LHS, retrieve the tail harness (1) from the grommet hole (2) ensuring that the tail harness grommet is seated correctly. Locate and free the vehicle 10-way female break out connector (3). Connect the Trailer Patch Harness (100201-WL) (4) to the tail harness (1). Connect the trailer patch harness to the break out connector (3).

10. Refit the rear bumper fascia. Secure all harnesses to the vehicle using cable ties.
Test the Trailer Harness function using trailer light board or multimeter
Refit all removed parts and secure all fasteners.
Please place the fitting instructions in the glove box after installation.



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