

TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03455XW

TOYOTA LC79 PRE 2012 X-BAR



PRODUCT DETAILS:

Part Number: 03455XW Maximum Towing Braked: 3500 kg
ECU Number: N/A Maximum Towing Unbraked: 750 kg
Tail Harness Length Required: 1200 mm Maximum Static Ball Load: 350 kg

TBM/Lug Part Number: 21359

Wiring Part Number: 101350-WL

FITTING DETAILS:

Towbar Installation Time: 60 Mins. Hayman Reese SmartCODE Solution Required: NO

Wiring Installation Time: 20 Mins. RPA Disable/Other: NO

Total Installation Time: 80 Mins.

Bumper Cut Required: No

RECOVERY RATING:

CENTRE RECOVERY HOOK

CENTRE RECOVERY POINT LOADING MUST NOT EXCEED 8000kg. DESIGNED FOR USE WITH A SNATCH STRAP NOT EXCEEDING 8000kg MBS (MINIMUM BRAKING STRENGTH).

8000kg





SIDE RECOVERY HOOK (SINGLE)

SIDE RECOVERY POINT LOADING MUST NOT EXCEED 4000kg MBS (MINIMUM BRAKING STRENGTH).

4000kg









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Figure 1

Figure 2

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CORRECT

INCORRECT

ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT.

1 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).

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.









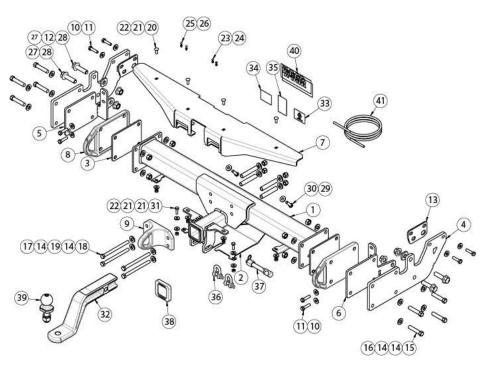
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TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	XBAR MODEL C WELDED ASSEMBLY	1
2	BASH PLATE	1
3	SPACER PLATE 5MM	2
4	TOYOTA TROOPCARRIER SIDE ARM	2
5	SUPPORT PLATE ASSEMBLY, LH	1
6	SUPPORT PLATE ASSEMBLY, RH	1
7	BOLT ON PLATE - MODEL C	1
8	FORGED SIDE RECOVERY PLATES	2
9	FORGED CENTRE RECOVERY MOUNT	1
10	WASHER PLAIN M10x25x3	8
11	BOLT HEX HD M10x40x1.25P	8
12	REAR SPACER PLATE	2
13	FORWARD SPACER PLATE	2
14	WASHER PLAIN M12x28x3	24
15	SET SCREW HEX HD M14x65x10.9P	8
16	NUT HEX HD M14x2.0P	8
17	NUT HEX NYLOC M12x1.75P	4
18	SET SCREW HEX HD M12x150x10.9P	4
19	SPACER TUBE 90MM 16X1.6	4
20	BOLT COACH M8x20x1.25P	4
21	WASHER PLAIN M8 X 22 X 3	8

ITEM	DESCRIPTION	QTY
22	NUT HEX HD M8x1.25P	6
23	SCREW PAN HD M4x16x0.7P	2
24	NUT NYLOC HEX HD M4x0.7P	2
25	SCREW PAN HD M3x20x0.7P	2
26	NUT NYLOC HEX HD M3x0.7P	2
27	NUT HEX HD FLANGED M16x1.5P	4
28	BOLT HEX HD FLANGED M16x60x1.5P	4
29	WASHER PLAIN M10x25.4x3	2
30	BOLT HEX HD M10x35x1.25P	2
31	SET SCREW HEX HD M8x25x1.25P	2
32	TBM EXTENDED DROP 3.5T FORGED	1
33	XBAR TORQUE RATING WARNING LABEL	1
34	COMPLIANCE LABEL	1
35	LOAD RATING LABEL	1
36	D-SHACKLE	2
37	SMART PIN GOLD	1
38	HITCH BOX COLLAR COVER	1
39	TOWBALL 50mm	1
40	XBAR DECAL STICKER	2
41	WIRING LOOM	1

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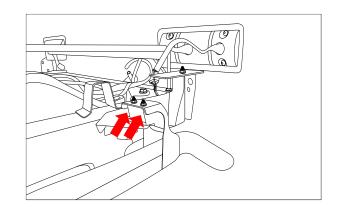
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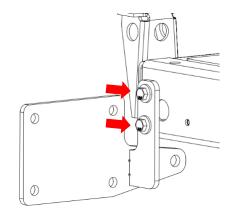
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1. Remove and retain 2 x screws securing the rear section of exhaust to the exhaust mount.

This is to allow for greater tool access for installation of towbar.



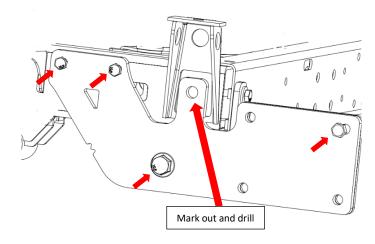
- 2. Loosely secure the LH Support plate assembly to the vehicle rear crossbeam with 2 x M10 bolts complete with 1 x washer per bolt.
- 3. Repeat for other side.



Steps 4 and 5 are required to ensure that parts align at final fitment after drilling.

- 4. Loosely secure the side-arm to the chassis rail with 2 x M10 bolts.
- 5. Use a M16 and M14 bolt to align the side arm plate with the previously fitted support plate.
- 6. Use the side arm plate as a template to mark out the rear hole location on the chassis rail.
- 7. Remove the side arm plate and drill a Ø16.5mm hole in the marked off position. Deburr and coat with a suitable rust inhibitor.

Repeat Steps 4-7 for other side.









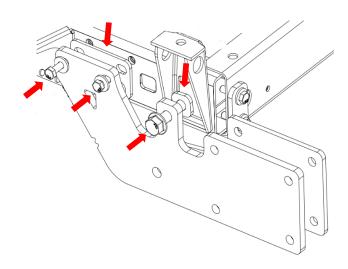
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8. Position the side arm plate along with the forward and rear spacer plates and loosely secure to the chassis with 2 x M10 bolts complete with 1 x washer per bolt and 1 x M16 flange bolt complete with 1 x flange nut.

Repeat for other side.

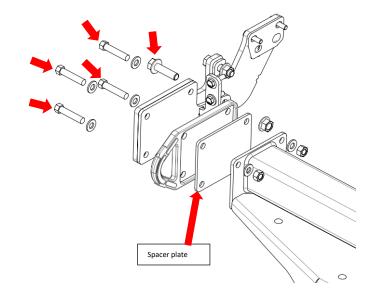


- 9. Fit the centre recovery hook along with the cover plate, refer to Appendix sequence A, B, C, and D prior to the crosstube assembly fitment.
- 10. With assistance, lift crosstube assembly up to side arms ensuring to sandwich the red recovery side plate along with the 6mm spacer plate between side arms and crosstube assembly.

Note: Red recovery side plates must have recess facing inwards.

Loosely secure the crosstube assembly to each side arm with 4 x M14 bolts complete with 2 x washers and 1 x nut per bolt.

11. Secure the side arm to the support plate assembly with 1 x M16 flange bolt complete with 1 x flange nut. Repeat for the other side.









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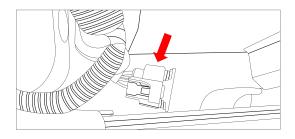
12. Position the towbar assembly and tighten all bolts to the torques listed below:

M10x1.25 G10.9 : 68 N.m M14x2 G10.9 : 175 N.m M16x2 G10.9 : 276N.m

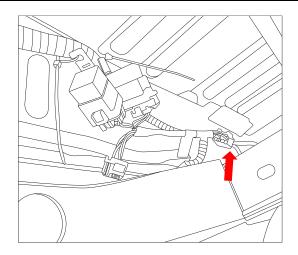
IMPORTANT: Ensure all bolts are secured to correct

torques using a calibrated torque wrench.

- 13. Locate 8-way pre-wire connector on the LHS chassis rail.
- 14. Remove the blanking plug and discard.



- 15. Connect the trailer harness 101350-WL to the trailer pre-wire connector.
- 16. Mount the trailer plug to plug bracket, route tail harness towards the trailer patch mating blue connector and connect and waterproof using electric grease.
- 17. Secure the harness and relays to vehicle main loom.
- 18. Test trailer function using trailer test board.
- 19. Refit all removed parts.
- 20. Place instructions in glovebox





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.

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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.

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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.

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BY HAYMAN REESE



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.



Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to retighten 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

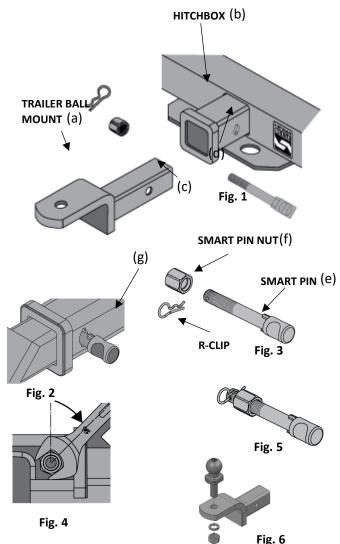
Tighten Smart Pin Nut by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig. 4).

STEP 5

Install Smart Pin R-Clip through the hole that provides best clearance or easiest access. (Fig. 5)

STEP 6

Install towball onto TBM and tighten to <u>350 Nm</u> using a calibrated torque wrench (Fig. 6).

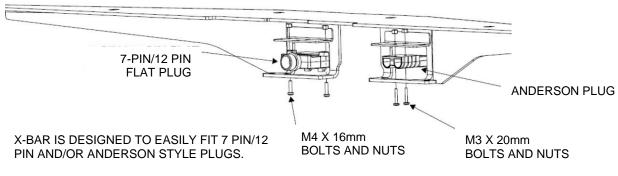




APPENDIX

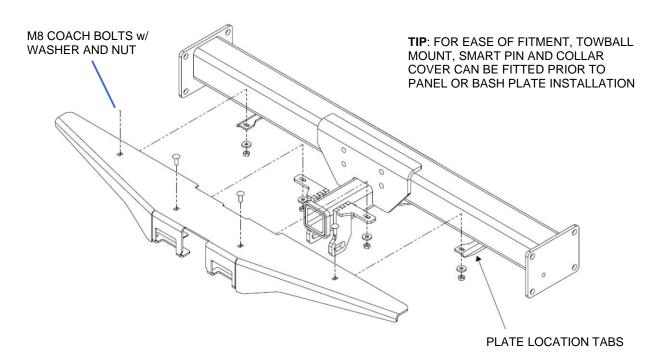
CENTRE RECOVERY HOOK INSTALLATION INSTRUCTION

A. FIT PLUGS TO PLUG BRACKETS



TIP: WIRED CONNECTOR CAN BE MOUNTED PRIOR TO PANEL INSTALLATION

B. BOLT COVER PLATE TO TOWBAR



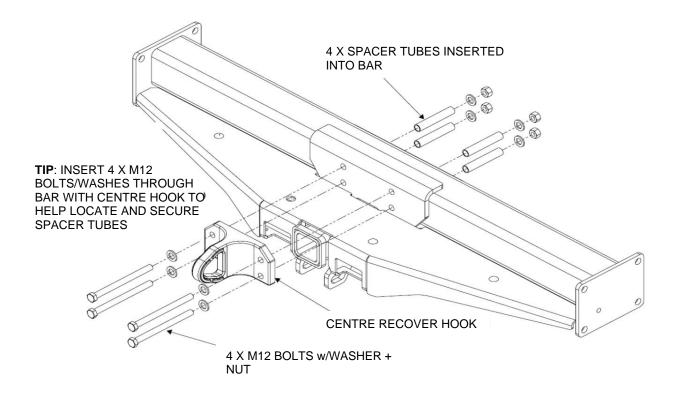
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APPENDIX

CENTRE RECOVERY HOOK INSTALLATION INSTRUCTION

C. BOLT CENTRE RECOVERY HOOK TO TOWBAR



D. BOLT BASH PLATE TO TOWBAR

