



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03379RW

SSANGYONG MUSSO Q200/Q201 CL4



PRODUCT DETAILS:

Part Number:	03379RW	Maximum Towing Braked:	3500	kg
ECU Number:	04835	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200 mm	Maximum Static Ball Load:	350	kg
TBM/Lug Part Number:	21342			
Wiring Part Number:	102639-WL			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Hayman Reese SmartCODE Solution Required:	NO
Wiring Installation Time:	30 Mins.	RPA Disable/Other:	YES
Total Installation Time:	90 Mins.		
Bumper Cut Required:	Yes		

Note:

- When RPA is disabled there will be 3 Question marks on the centre instrument cluster (**This is not a fault This is to indicate the rear parking sensors are disabled**).



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ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT.

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).

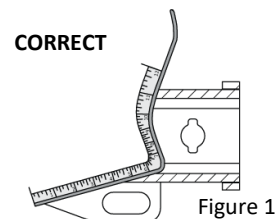


Figure 1

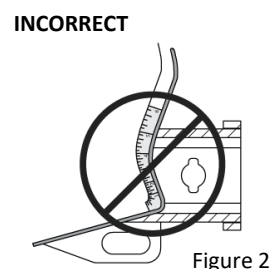


Figure 2

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

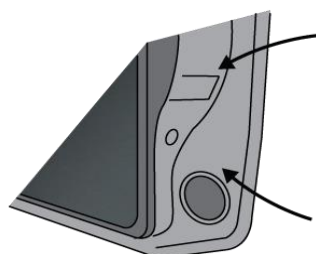
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

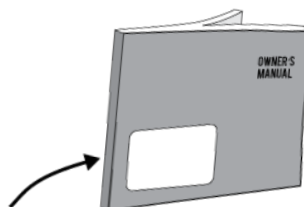
Product Labels

- 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.



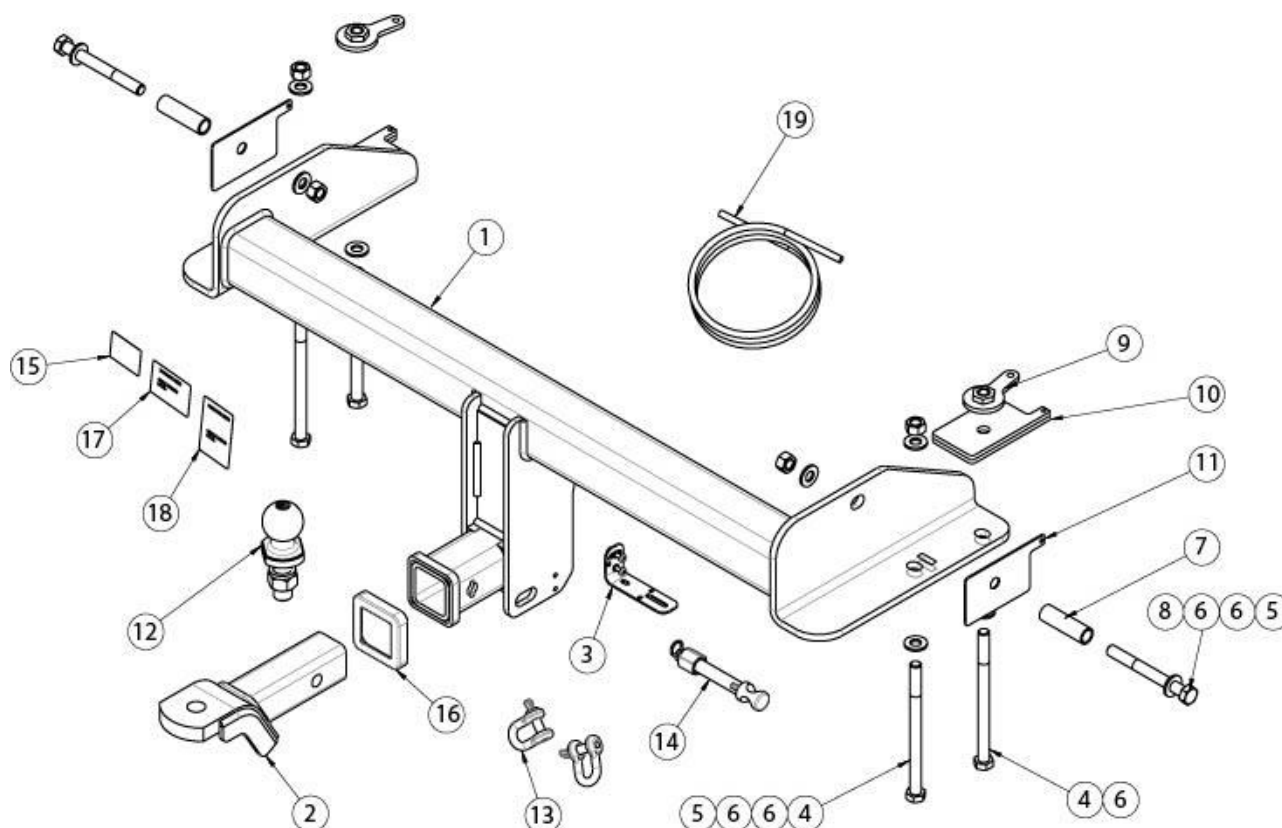
TOWBAR

INSTALLATION INSTRUCTIONS

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TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	SSANGYONG MUSSO WELD ASSEMBLY	1
2	TRAILER BALL MOUNT	1
3	UNIVERSAL PLUG BRACKET KIT	1
4	BOLT HEX HD M14x190x2.0P	4
5	NUT HEX HD M14x2.0P	4
6	WASHER PLAIN M14x28x3	10
7	CRUSH TUBE	2
8	BOLT HEX HD M14x130x2.0P	2
9	NUT PLATE	2
10	CHASSIS SHIM PLATE 6MM	4

ITEM	DESCRIPTION	QTY
11	CHASSIS SHIM PLATE	2
12	TOWBALL 50mm	1
13	"D" SHACKLE 10mm	2
14	SMART PIN GOLD	1
15	HAYMAN REESE LOGO STICKER	1
16	HITCH BOX COLLAR COVER	1
17	COMPLIANCE LABEL	1
18	DOOR RATING LABEL	1
19	WIRE LOOM	1

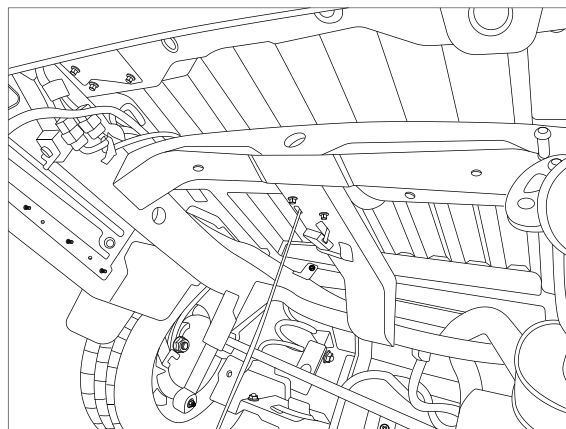


TOWBAR INSTALLATION INSTRUCTIONS

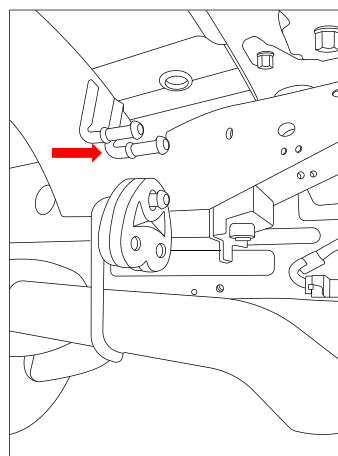
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1. Using the wheel tool kit and lower the spare wheel.
Unclip the harness wire from the chassis

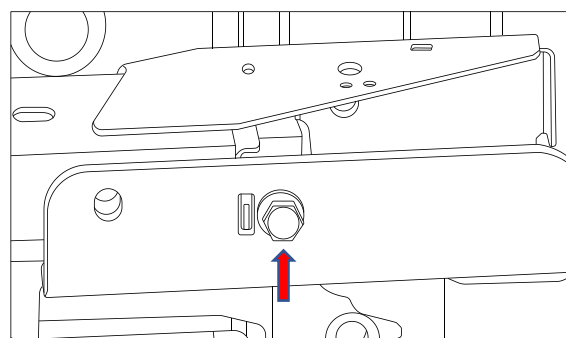


2. Remove the rubber muffler isolator for easy access.



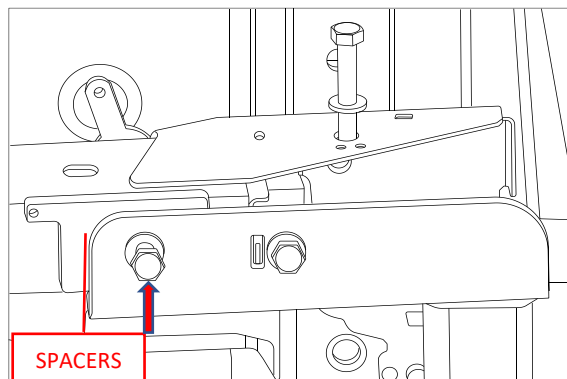
3. Fit the tow bar between the chassis and loosely secure with 1x bolt, 2 washers and 1x nut.

Repeat for the other side



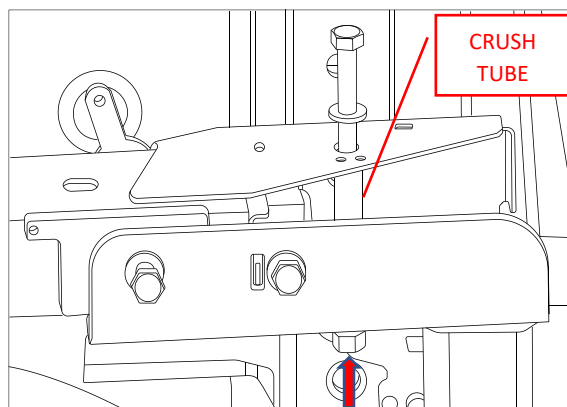
4. Fit 2x spacers under the chassis.
Loosely secure 1x M14 bolt, 1x washer and 1x nut plate.

Repeat for the other side



5. Fit the crush tube into the chassis and slide 1x M14 bolt and 1x washer halfway in.

Repeat for the other side

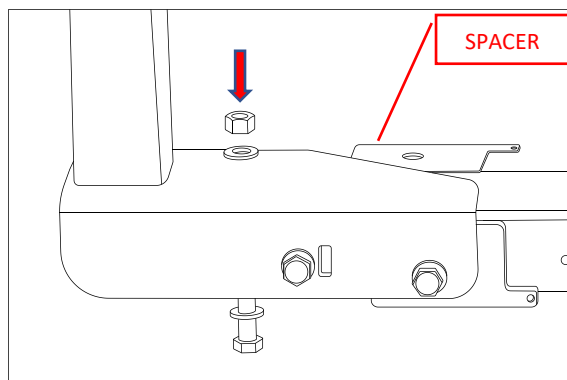


6. Fit 1x spacer on the side of the chassis, push the M14 bolt through the spacer, 1x washer and secure with 1x M14 nut.

Repeat for the other side.

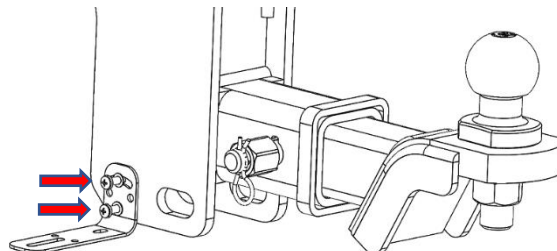
Torque fasteners as follows:

M14 x 2.0P = 124 Nm

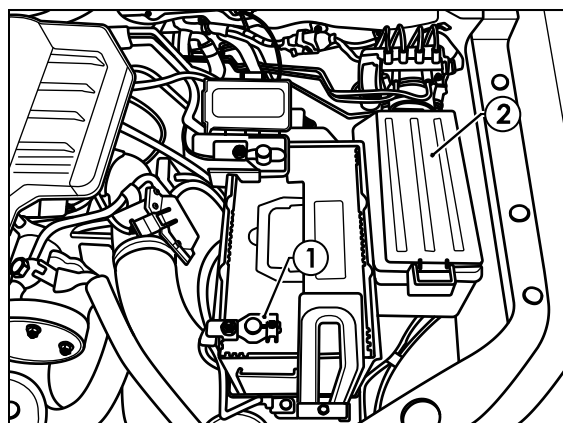


7. Fit the plug bracket on the dropper and secure with 2x screws, 4x washer and 2x nuts.

Fit the TBM face up as shown.

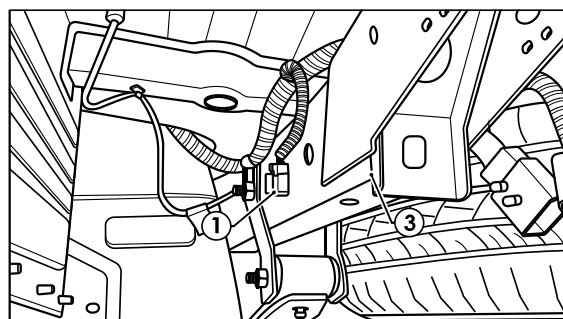


8. In the Engine Bay, disconnect the vehicle battery negative terminal (1).
9. Remove the cover off the fuse block (2).



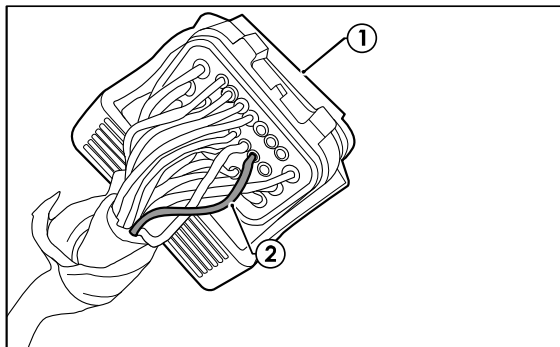
10. Under the vehicle left hand side, connect the vehicle pre-wire connector (1) to the mating connector on the trailer patch (102639-WL).
11. Connect the waterproof ECU (04835) to the ECU connector on the trailer wiring harness.
12. Secure the ECU to the chassis rail (2).

Note: Ensure the module connector is pointing downwards.



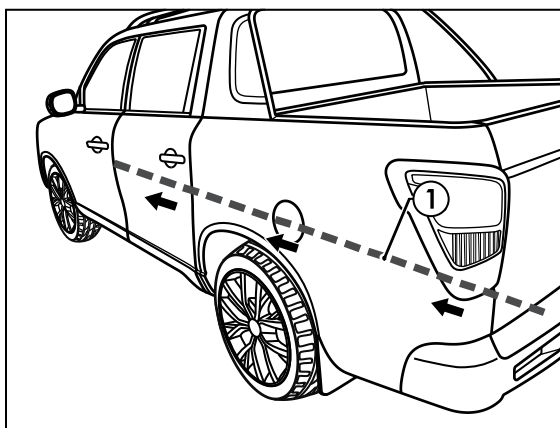
13. For vehicles with reverse sensors, under the vehicle left hand side behind the rear left wheel, locate the vehicle bumper connector (1) attached to the chassis.
14. On the vehicle side, cut the RPA ground (Black) wire (2) and strip, crimp, splice and seal the grey and grey black wires to each side of the black wire.

Note: The wire is thin Black.

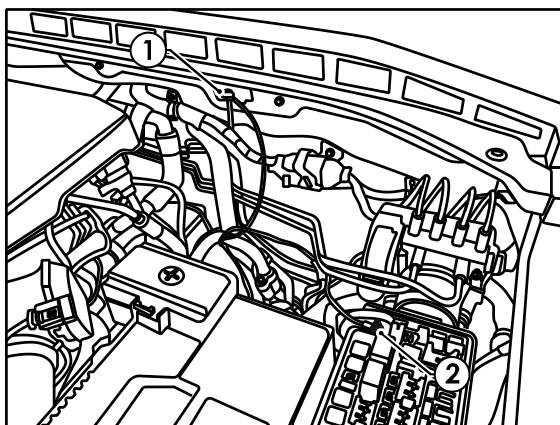


15. Route the power and ground wires along the chassis rail towards the front of the vehicle.
16. Secure the harness to the vehicle chassis rail.

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



17. In the engine bay, connect the M6 ground wire ring terminal to the vehicle earthing point (1) on the firewall.
18. Connect the M6 orange fused ring terminal to the fuse box positive stud (2).
19. Reconnect the vehicle negative battery terminal.
20. Tie up any excess lengths as required.



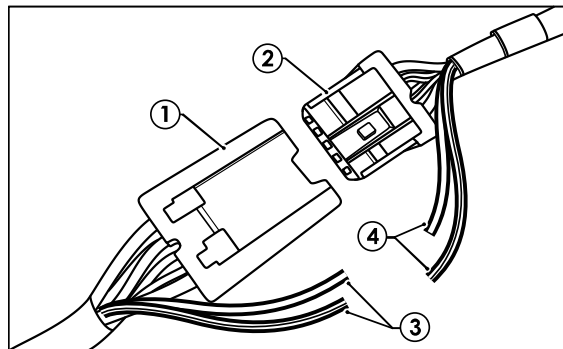


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21. At the rear of the vehicle LHS, connect the tail harness (tail length 1200mm) 8-way connector (1) to the trailer patch mating 8-way connector (2).
 22. Cut-off, crimp the tail harness GREY and GREY/BLACK wires (3) to the trailer patch matching GREY and GREY/BLACK wires (4).



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23. Test the trailer patch function using a light board or multi-meter.
 24. Secure all harness using cable ties (not supplied).
 25. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
 26. 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.**

i 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.

i 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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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)

STEP 6

Install towball onto TBM and tighten to **350 Nm** using a calibrated torque wrench (Fig. 6).

