



# CLASS 5 TOWBAR INSTALLATION INSTRUCTIONS

SIDEARM KIT PART NUMBER

MCL5A-3001

VEHICLE APPLICATION

HINO 300 SERIES 616 TIPPER (CLASS 5)



## PRODUCT DETAILS:

|                               |                |                           |           |     |
|-------------------------------|----------------|---------------------------|-----------|-----|
| Part Number:                  | MCL5A-3001     | Maximum Towing Braked:    | 3500/4500 | kg* |
| Tail Harness Length Required: | 1200 mm        | Maximum Towing Unbraked:  | 750       | kg  |
| Wiring Part Number:           | AMCL5A-3001-WL | Maximum Static Ball Load: | 350/450   | kg* |

**\*NOTE:** maximum rating may lower if GVM is over 5,000kg - refer to VSB6/VSG16

**NEVER** exceed the Gross Combined Mass (GCM) of your vehicle whilst towing – Check vehicle ratings carefully.

## FITTING DETAILS:

|                           |          |                                                                                 |    |
|---------------------------|----------|---------------------------------------------------------------------------------|----|
| Towbar Installation Time: | 60 Mins. | Vehicle Coding Required:                                                        | NO |
| Wiring Installation Time: | 15 Mins. | RPA Disable/Other:                                                              | NO |
| Total Installation Time:  | 75 Mins. | Note: Lighting system is 24 V, use 042412V4 Voltage Reducer if 12V is required. |    |

Please note that this Sidearm kit is part of a modular towbar range. For a complete towbar, will need: -

- A. SIDEARM KIT (included)
- B. CROSSTUBE KIT (For STD 700mm chassis width use MCL5B-700, for WIDE 750mm chassis use MCL5B-750.)
- C. HITCH KIT (50mm ball = MCL5C-HB50; Combination Pintle = MCL5C-COM-PIN.) Other hitch options are available – contact Hayman Reese Customer Service team for more information.

**CAUTION:** CHECK FOR TOW COUPLING CLEARANCE DURING TIPPING



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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.

Note that to create a full towbar installation, the installer will require:

1 x Side arm kit

1 x Cross tube kit

1 x Hitch Kit

Do not attempt to start installation until a complete towbar kit contents is confirmed.

Please ensure this towbar is only fitted to vehicle models as per Hayman Reese application guide. ([www.haymanreese.com.au](http://www.haymanreese.com.au))



## Compliance and Legal Requirements

It is important to check if the fitting of this towbar requires sign off after fitment by an approved vehicle engineer.

For Light vehicles (Under 4500kg GVM) this will depend upon the state or territory in which the vehicle is registered.

For vehicles over 4500kg GVM the requirements of the National Heavy Vehicle Regulator will apply. Please consult your local transport authority (or NHVR) for guidance on this matter.

If Truck GVM is over 5000kg ensure requirements for additional labelling of the bar for VSG 16 are met. Hayman Reese have a range of labels suitable for this purpose – contact Hayman Reese for further information.

There is a requirement under AS4177 for the height of a **50mm towball** to meet the requirements for ADR 62/02. This height measured from the ground is 350mm to 460mm when the vehicle is fully laden to GVM. Refer to detailed guidance specified below. It is also important to understand the customer expectations regarding ball height and matching this whilst ensuring compliance to AS4177 and ADR 62/02.

## 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 chassis 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

The Towbar load rating sticker / compliance label provided with this product shall be located on the cross tube during fitting. See detailed instructions below.



## 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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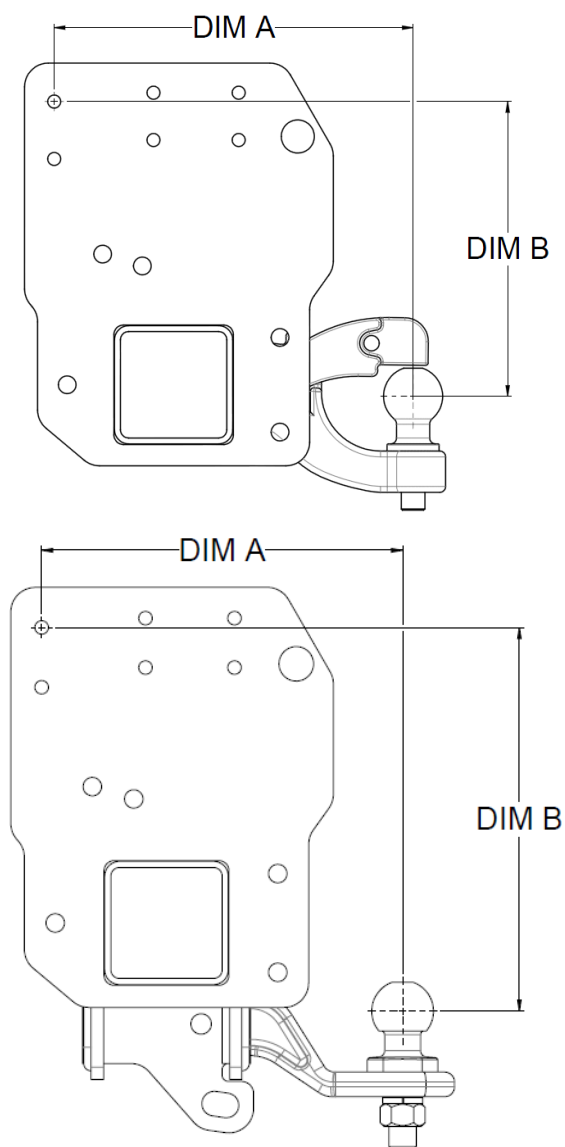
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In all applications where a 50mm towball is used for towing, certain Australian Design Rules (ADR) regulations must be met. **Australian Standard 4177.1** states:

*When towbar and towball are fitted to the laden towing vehicle, the height of the towball above ground shall be between 350mm and 460mm (or capable of being adjusted)*

**Prior to purchasing, it is important to ensure that your chosen combination of A, B and C kits will be compliant with ADR 62. Please refer to the below figure to help calculate your expected ball height.**



| PINTLE KIT CONFIGURATION    | DIM A (mm) | DIM B (mm) |
|-----------------------------|------------|------------|
| Standard Pintle             | 263        | 243        |
| Combination Pintle (Fig. 1) | 313        | 249        |
| Forged Pintle               | 313        | 187        |
| TBM + 50mm ball (Fig. 2)    | 291        | 311        |
| TBM + 70mm ball             | 306        | 268        |



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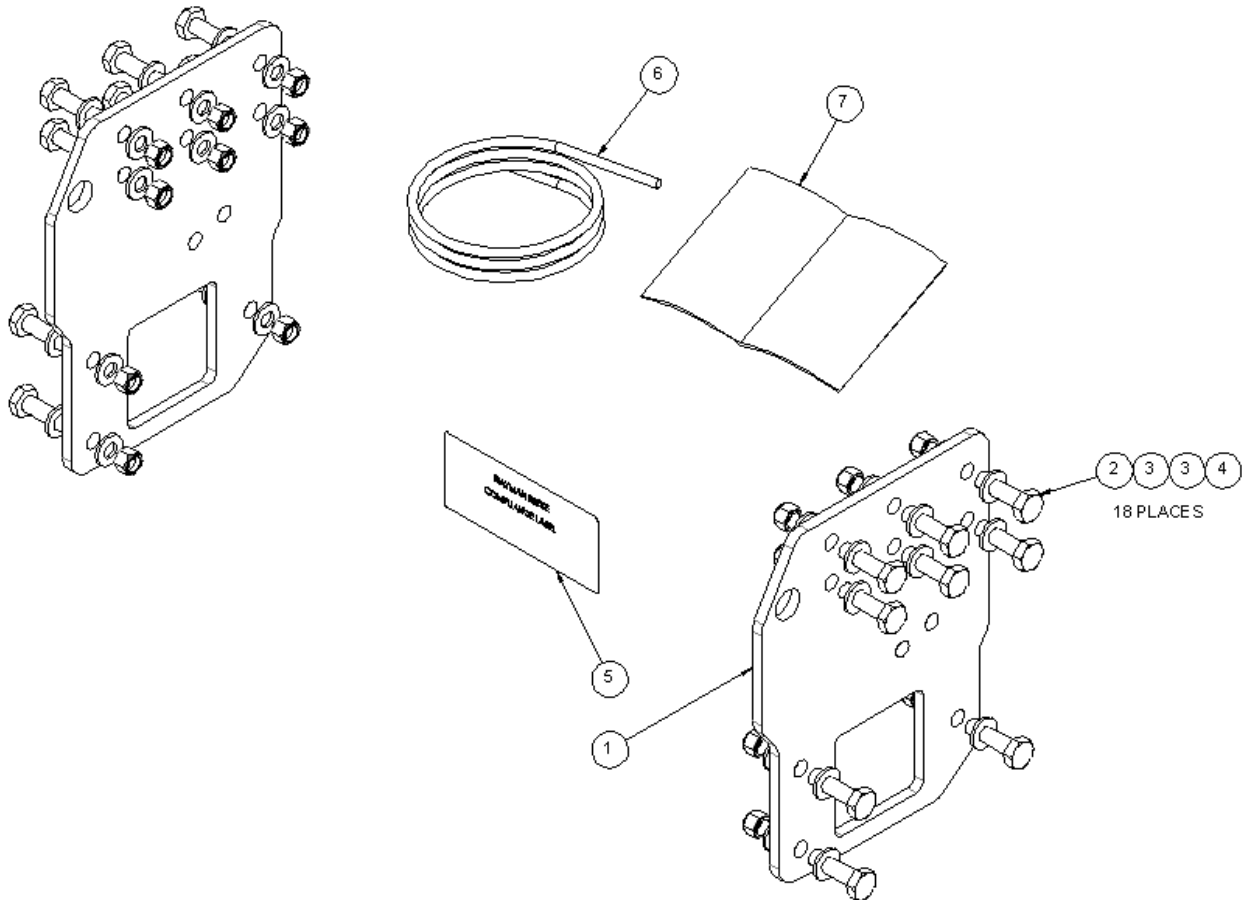
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### TOWBAR ASSEMBLY DIAGRAM



| ITEM | DESCRIPTION                       | QTY |
|------|-----------------------------------|-----|
| 1    | HINO 616 TIPPER SIDEARM           | 2   |
| 2    | M14x1.5x50 PC10.9 SET SCREW       | 18  |
| 3    | WASHER PLAIN M14 X 28 X 3         | 36  |
| 4    | NUT NYLOCK HEX M14 X 1.5 G10 ZINC | 18  |
| 5    | ACRYLIC COMPLIANCE LABEL          | 1   |
| 6    | WIRE LOOM                         | 1   |
| 7    | FITTING INSTRUCTION               | 1   |



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## FITTING GUIDANCE

1. Remove tow hook from LHS chassis rail. Retain fasteners.

Lift sidearm up to chassis rail.

Mark all holes that require drilling/widening.

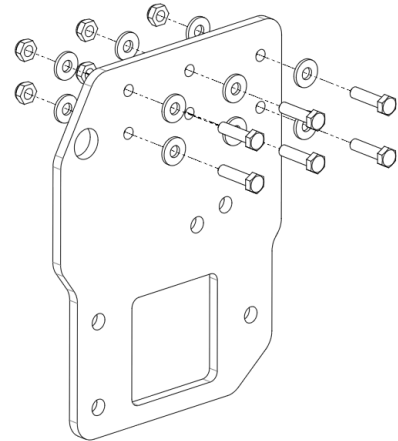
Drill the existing holes to Ø14.5mm where required.

Deburr the holes and apply an anticorrosion paint.

Loosely secure sidearm to chassis rail using 6 x M14 bolts, complete with 2 x washers and 1 x nut per bolt.

Repeat for opposite side.

**Place tow hook to side plate and secure using retained fasteners. Tighten tow hook fasteners to 140 Nm**



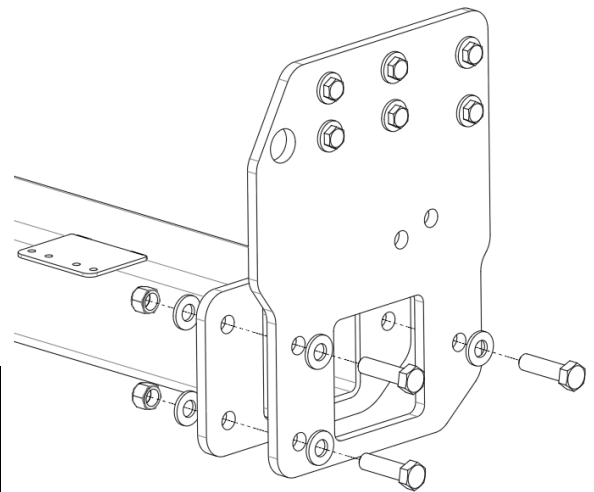
2. **NOTE: refer to fitting instructions for centre section assembly (not included).**

With 2 people, lift pre-assembled centre section (not included) up to sidearms and loosely secure with 6 x M14 bolts (3 per side), complete with 2 x washers and 1 x nut per bolt.

**Torque fasteners as follows:**

**M14 x 1.5P = 196 Nm**

3. Apply the Compliance Label to the rear face of the Cross tube where it will easily be seen during hitching and un-hitching.
4. If a 50mm ball coupling is being fitted and the truck is rated over 5000kg GVM, a further rating label is required confirming the de-rate on the 50mm tow ball and associated couplings. Refer to VSB6 and VSG16 for further details. Hayman Reese have a range of compliance labels which may be able to assist with this additional labelling requirement. Contact Hayman Reese for further details.





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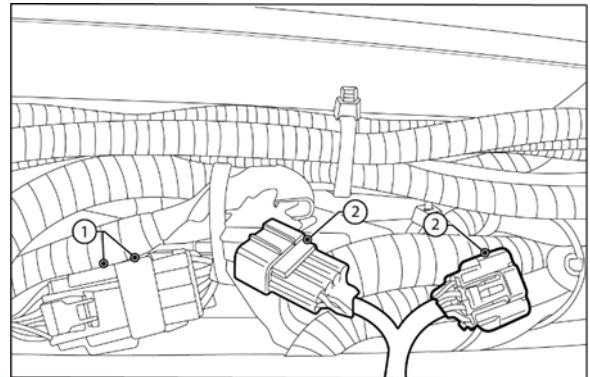


## IMPORTANT

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.

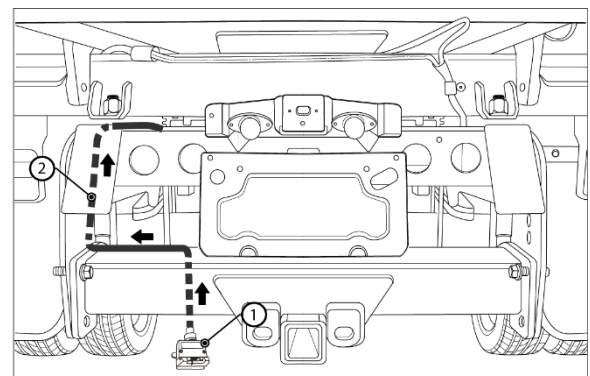
5. From the outside of the vehicle, on the LHS locate and disconnect the tail light 8-way connectors (1).

Connect the Trailer Wiring Harness mating 8-way connectors (2) in between.



6. Mount the trailer socket (1) to the towbar mounting bracket using 2 x M4 bolts, complete with 2 x washers and 1 x nut per bolt.

Route the Tail Harness (tail length 1200mm) across the towbar towards the LHS of the vehicle (2).





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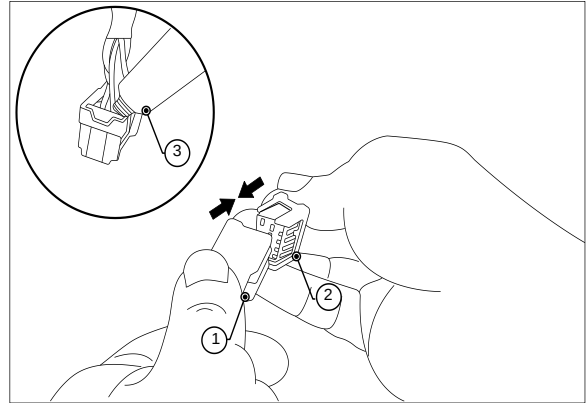
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7. Waterproof the Trailer Harness 8-way connector (1) and the tail harness 8-way male connector (2) using silicone or grease (3).

Connect the Tail Harness 8-way connector (1) to the Trailer Harness mating 8-way connector (2).



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8. Test the Trailer Harness function using a Light Board or multi-meter.
  9. Secure all Harnesses using cables ties (not supplied).
  10. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
  11. Place the 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 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.
2. 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](http://www.haymanreese.com.au/warranty) or contact customer service on 1800 812 017 or [info@haymanreese.com.au](mailto:info@haymanreese.com.au).