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Witter Detachable Towball Systems

Operation Manual and Product Warranty

This document contains essential safety information and must be read and understood before using your new Witter Detachable Towball System. It should be stored in the vehicle for future reference.

(ZQ-M-Issue 6)



Terms and Conditions of Warranty

- 1) This product warranty is only valid if the Detachable System is registered with Witter Towbars on-line at www.witter-towbars.co.uk/warranty/ZQI
- 2) This product warranty is valid for 2 years from the date you purchased the Detachable System from Witter Towbars or their agents. The Warranty will be extended for a further year (3 years in total) if you register the Detachable System within 30 days of the date of purchase.
- 3) This product warranty covers faulty materials and workmanship. During the period this warranty is valid, the Detachable System you have purchased will be repaired, replaced or have parts replaced free of charge provided that:
 - a) the Detachable System is returned to Witter Towbars with evidence of the purchase date.
 - b) the Detachable System has been installed and operated correctly.
 - c) the Detachable System or Towbar has been used within the towing limits specified by the vehicle manufacturer. (See vehicle handbook).
 - d) the Detachable System or its mechanism has not been damaged (unless as a result of faulty materials or workmanship by Witter Towbars).
 - e) it has not been used for any purpose other than towing a trailer or for use with a cycle carrier and this does not exceed the towing limits of the towbars
 - f) the mechanism of the Detachable System has been operated only by hand (as described in the Operation Manual) or in conjunction with a Witter ZQR handle.
 - g) repairs to the Detachable System have not been attempted other than by Witter Towbars.
- 4) This Warranty does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage. This warranty is offered as an extra benefit and does not affect your statutory rights.



FM27936



StowBar Detachable Towball System Upgrade Installation



A. Receptor



B. Towball Neck



C. Handle



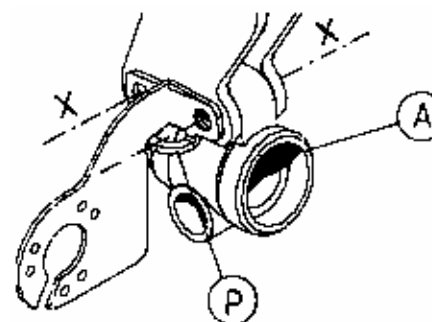
P. Safety Chain Plate



W. Weather Cap

FITTING OF TOWBALL RECEPTOR

1. Remove original bolts at (X) and Towbar Centre Part (if fitted).
2. Attach Towball Receptor Unit (A), Safety Chain Plate (P) and original Electrical Plate if removed, to Towbar Centre Profiles using replacement Bolts and Nyloc Nuts.
3. Tighten Bolts to 96 Nm.
4. Assemble Weather Cap (W) to the Towball Receptor Unit so as to cover the openings for the Towball Neck (B) and Handle (C)





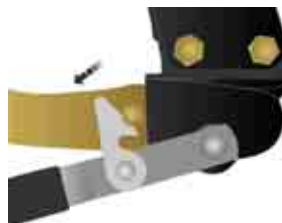
StowBar Detachable Towball System Operation Manual



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Quantum Detachable Towball System Operation Manual



General directions for the operation of all Detachable Towball Systems.

1. This user manual contains information that is essential to ensure the safe operation of the system and must be kept with the vehicle documents at all times.
2. We emphasise that a Towbar is a safety critical item, which should be used and installed as stated in the installation instructions.
3. The operations should only be performed by hand. **(Never use tools of any kind to operate the locking system. This can result in damage of the locking system, after which safe usage can no longer be assured, and the warranty would be invalid).** It is permissible to use a Witter ZQR handle.
4. Check the green indicator is correct every time before towing, as shown in diagram 3.
5. When used in combination with a coupling head with an integrated stabiliser e.g. ALKO or Winterhoff, do not use grease on the towball.
6. If the trailer is equipped with a safety cable or brake cable, this **must** be connected to the special safety hole that is located in the fixed part of the Towbar (making sure that it cannot come into contact with the operation handle).
7. If the towball obscures (even partly) the vehicle registration plate, the towball must be removed at all times when the towbar is not in use and the vehicle is used on public roads.
8. If there are any doubts or concerns regarding the use or operation of the detachable system, contact either your local Witter fitting specialist or visit our website where a full instructional video can be downloaded.

Mounting of Detachable Towball Systems. (Refer to the diagrams on pages 5 & 6).

1. Before installing the detachable towball, you must be sure that it is in the 'set' position. (In this position the 18mm diameter (Ø18) cylinder is 'set into' the towball mechanism, or it can be pushed inwards with the fingers). The operation handle is NOT in the 'set' position if red is visible in the recess (on the underside). If this is the case, push the knob in firmly and then rotate the handle fully clockwise to its end position. The handle should now remain in this position (see diagram 1).
2. Remove the plastic weather cap and ensure that the receiver is clear of any mud, gravel, road debris etc. Insert the detachable towball into the Towbar mounted housing until the large pin through the towball is located in the recess in the Towbar mounted housing (refer to diagram 2). Keep your hands away from the locking system. For vertical systems pull the towball towards you whilst holding the mechanism in place, after which the towball will lock automatically. For horizontal systems push the towball downwards. The operation handle will turn to indication green and will also pop out 7mm (diagram 3). **CHECK THIS!** (If this is not the case, remove the towball and start again at diagram "1").
3. Lock the towball by turning the key anti-clockwise (refer to diagram 4). After this, the operation handle can no longer be pushed inwards, also it is no longer possible to turn the handle. If the towball system can be locked this confirms that the towball is correctly installed. It is essential that the indicator is "green" prior to towing. Remember to remove the key from the lock before starting your journey. The towball is then ready to be used. (Refer to diagram 5).
4. The key operated lock is an anti theft device only. It is not involved with the attachment of the towball.
5. It is safe to tow with the key operated lock un-locked as long as the towball is correctly attached as described above.



Brukerveiledning

QUANTUM AVTAGBART KULESYSTEM



Generell veiledning for bruk av avtagbart kulesystem.

- 1 Denne manual inneholder viktige sikkerhetsanvisninger og skal oppbevares sammen med bilens øvrige dokumenter.
- 2 Vi vil påpeke at tilhengerfestet er et sikkerhetssystem som bør monteres og behandles med største forsiktighet.
- 3 Betjening av det avtagbare system må kun betjenes manuelt. Bruk ikke verktøy av noen art til betjening av låsemekanismen, dette kan ødelegge låsen og vil hindre sikker bruk, samt at garantien vil bortfalle.
- 4 Kontroller den grønne indikatoren før hver kjøretur, (ref. tegning 3)
- 5 Når kulen brukes sammen med kulekoblinger med innebygget stabilisator som ALKO eller Winterhof skal det **ikke** benyttes fett eller olje på kulen.
- 6 Tilhengerens sikkerhetskjettinger eller katastrofevire må alltid festes til hull eller egen brakett for dette formål på den faste delen av tilhengerfestet, påse at de ikke kommer i kontakt med betjeningshendelen.
- 7 Den avtagbare trekkdelen (kulen) skal den alltid være avmontert når tilhengerfestet ikke er i bruk.
- 8 Dersom det er noe tvil om bruk av det avtagbare system, ta kontakt med din forhandler.

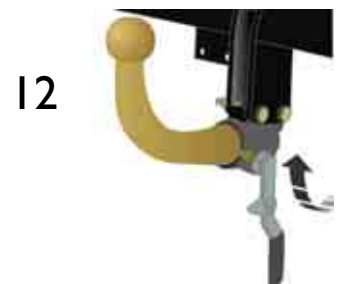
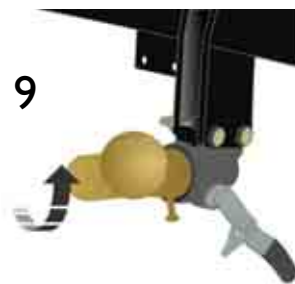
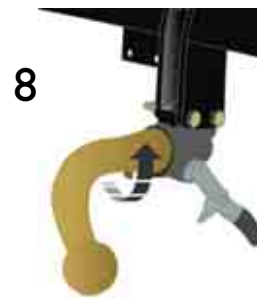
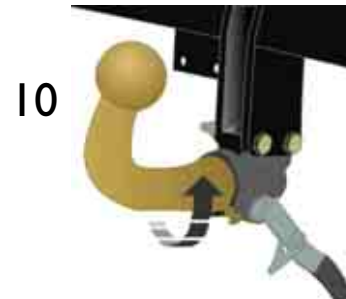
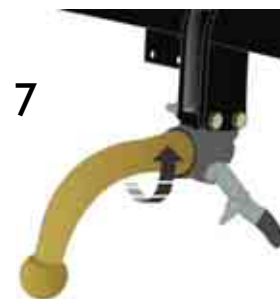
Betjening av det avtagbare system. (se bildeinstruksjon side 5)

Fjern støvdeksel RC fra receptorhuset.

- A Før installering av den avtagbare kule påse at receptorhuset på tilhengerfestet er rent og fri for eventuelt snø og is. Påse at betjeningshendelen står på **set** posisjon, i denne posisjon er sylindren (18mm diam.) sunket inn i kulen eller kan lett presses inn med fingren. Hendelen er ikke i **set** posisjon dersom det røde feltet er synlig i åpningen på undersiden. I dette tilfelle må hendelen vris medurs til sluttposisjon og stopper, i henhold til (bilde 1)
- B Plasser den avtagbare del helt opp i huset, (vertikal montasje) inn i huset, (horisontal montasje). Hold fingrene borte fra låsehendelen, med kulen presset opp / inn gjøres et lite rykk bakover, den vil da låse automatisk, (bilde 2). Betjeningshendelen vil nå dreie til grønn posisjon og sprette ut ca. 7mm (bilde 3) **Kontroller dette!** Dersom dette ikke er situasjonen, ta kulen ut og start igjen fra punkt A.
- C Lås kulen ved å dreie hendelen moturs (bilde 4) med betjeningshendelen låst kan denne ikke lenger presses inn eller vris i noen retning, når systemet lar seg låse er dette en bekreftelse på at monteringen er gjort riktig. **Når indikatoren viser grønt og hendelen er låst med nøkkelen er kulen klar til bruk (bilde 5)**



StowBar Detachable Towball System Operation Manual





StowBar Detachable Towball System Operation Manual



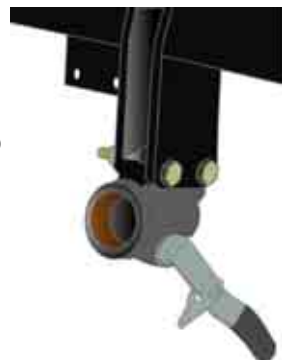
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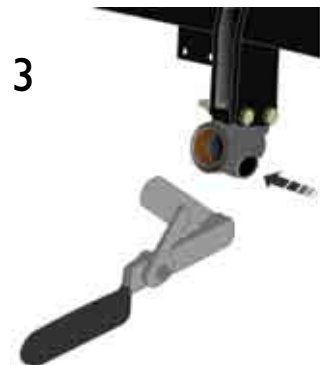
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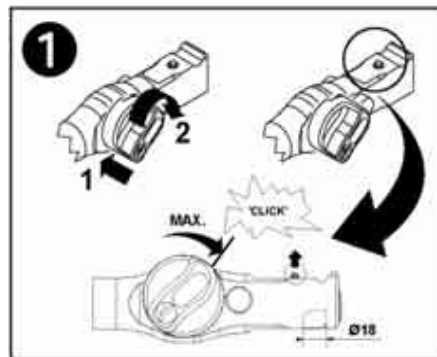
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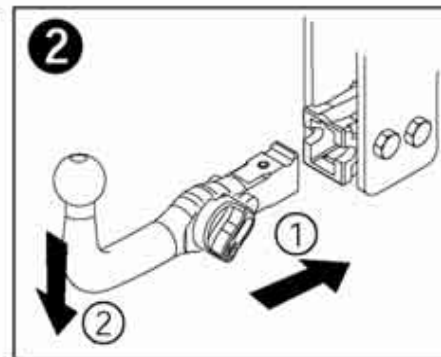
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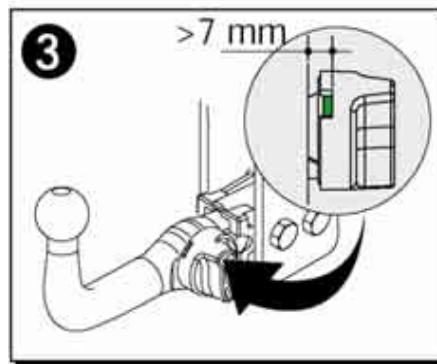
Quantum Horizontal Detachable Towball System Operation



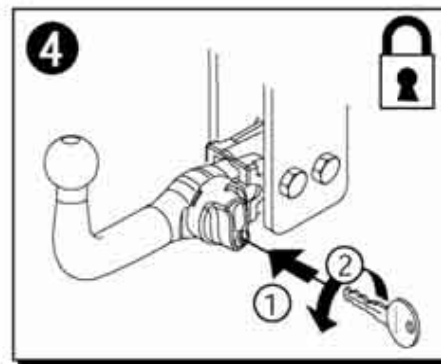
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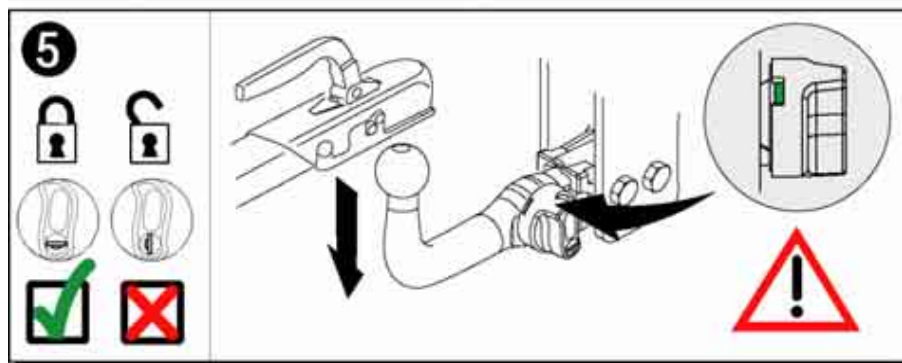
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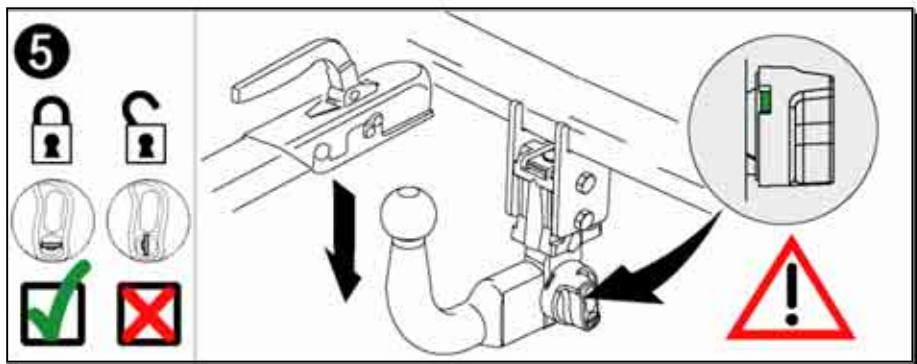
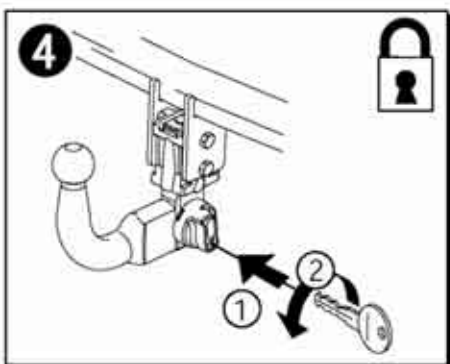
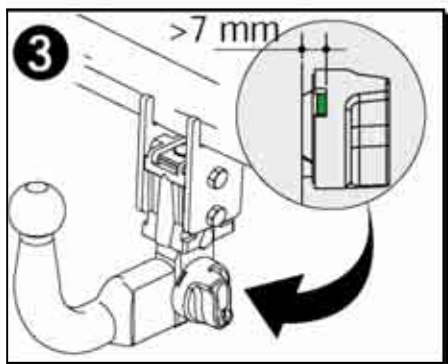
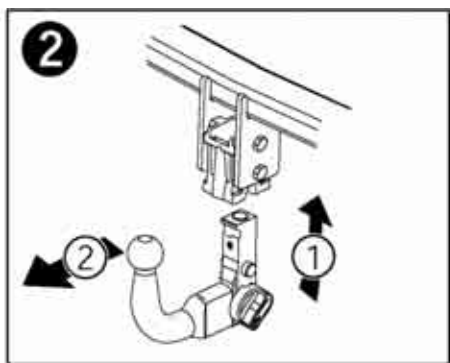
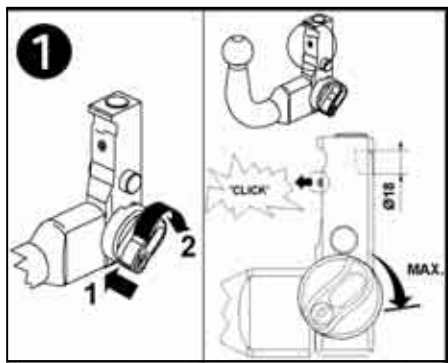
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Quantum Vertical Detachable Towball System Operation



StowBar Detachable Towball System General Maintenance



MAINTENANCE:

For prolonged life minor maintenance is required, as detailed below:

- Keep the Towball Receptor Unit, Towball Neck, and Handle in a clean condition. The Towball Receptor Unit can be washed with warm water and mild detergent to remove dirt ingress. **Do not use liquid solvent.**
- After use place the Towball Neck (B) and Handle (C) inside the bag provided, store preferably in a dry place, and refit Weather Cap (W).
- Maintain a thin layer of general-purpose grease (not oil) on the parts of the Handle and Towball Neck that are inserted into the Towball Receptor Unit. **Do not grease the spherical surface of the towball** if it is to be used with a 'clamp on the ball' type coupling stabiliser. Check that all fasteners are tight every 10,000K.m.

Vedlikehold.

Etter bruk, vask trekkdelen B og hendelen C med mildt såpevann, (benytt ikke løsningsmidler), ren for skitt og salt, påse at overflatene på trekkdelen B, hendelen C og innvendig i reseptor huset A alltid er rene og påført et tynt lag med fett, dette vil lette bruken og beskytte overflater og nylonforinger. Plasser trekkdelen B og hendelen C i oppbevaringsposen, støvdekslet W plasseres over hullene i reseptorhuset.

SAFETY:

- Never leave the detachable towball loose in the car. Always store the towball in a secure location where it is not free to enter the passenger compartment in the event of a collision or heavy braking. If not secured the towball could cause serious injuries. Make sure that when installed the hook on the Handle is correctly engaged over the Pin on the Towball Neck. (See operating instructions on following page.)

In UK law the driver is responsible for the safe operation and use of a vehicle. Therefore if there is any doubt as to the integrity of the installation of the detachable towball do not use for towing. Either contact your local Witter fitting specialist or visit our website at www.witter-towbars.co.uk.

Viktig.

NB. Trekkdelen B skal kun være montert ved kjøring med tilhenger.

Når den avtagbare kulen ikke er i bruk skal den oppbevares i posen som nedfølger, dersom den oppbevares i bilen må den plasseres på et sikkert sted slik at den ved en kraftig oppbremsing eller en eventuell kollisjon ikke kan forårsake skade.

B



W



C





Monteringsanvisning

QUANTUM AVTAGBART TREKKDEL



Innhold:

A	1	Receptorhus
T	1	Avtarbar trekkdel
K	2	Nøkler for avtagbar trekkdel
X	4	M12 x 25mm x 1.75mm bolter, sprengskiver og stoppskiver (25mm diam.)
FC	1	Plastdeksel
RC	1	Avtagbart plastdeksel
L	1	Klistremerke (pil)
B	1	Oppbevaringspose
ZQM1	1	Brukerveiledning

Plasser plastdeksel FC over front av receptorhuset A (horisontal montasje), over topp av receptorhuset A ved vertikal montasje.

Plasser receptorhuset A mellom platene på tilhengerfestet, monter løslig med bolter X. Dersom vinkelbrakett EQ1 og kontaktplate ZEP1 medfølger tilhengerfestet monteres disse på venstre side, benytt bolt M10 x 25mm med mutter og skiver. Kontaktplate ZEP2 monteres med en av boltene X.

Eventuell sikkerhetskjettingplate SC monteres på høyre side i nedre hull.

Plasser Trekkdelen T i receptorhuset i henhold til brukerveiledning, påse at trekkdelen står rett (vertikal posisjon) trekk til bolter X. Tiltrekkingsmoment: M12 - 95 Nm

Plasser pil L nederst i senter på støtfangeren for å indikere receptorhusets plassering. (vertikal montering). Dekselet RC skal alltid være plassert i receptorhuset A når trekkdelen ikke er montert.

Den avtagbare trekkdel skal kun være montert ved kjøring med tilhenger.

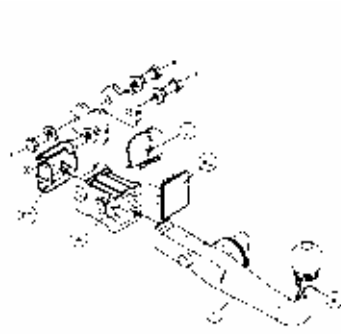
Det kan være nødvendig på enkelte modeller med et lite kutt i støtfanger for å gi tilstrekkelig plass til betjeningshendelen.

Påse at kunden / brukeren får overlevert brukerveiledningen samt blir gitt opplæring i bruk av systemet.

Vertikal Montasje



Horisontal Montasje



Quantum Detachable Towball System Operation Manual



Removal of the detachable towball system.

- Always remove/unhitch the trailer prior to removing the towball (diagram 6), and remove any accessories if they obstruct the locking system as well as detaching the safety cable.
- Unlock the towball by turning the key clockwise. (Refer to diagram 7).
- Hold the detachable towball with the left hand. Push the operation handle into its housing and turn fully clockwise. The handle should remain in this position (refer to diagram 8).
- Let the detachable towball slide out of the housing, whilst holding to prevent falling onto the floor.
- When not in use keep the towball in the bag provided. If kept in the vehicle this must be located such that it is not free to enter the passenger compartment in the event of a collision.

Maintenance:

The detachable towball requires no special maintenance. A few useful tips are given below.

- The detachable towball and the towbar mounted receiver can be washed with warm water and mild detergent in the installed position, or wipe with a dry cloth. Do not use liquid solvent for cleaning purposes.
- It is recommended that a small amount of light lubricating oil is used in the key locking mechanism only.
- Place the detachable towball inside the bag provided, and store, preferably in a dry place.

Safety:

- Never leave the detachable towball loose in the car. Always store the towball in a secure location where it is not free to enter the passenger compartment in the event of a collision or heavy braking. If not secured, the towball could cause serious injuries.
- Make sure that when installed the detachable towball locking system shows the green indication strip and that the operation handle has popped out. This must be confirmed by locking the towball.
- In UK law the driver is responsible for the safe operation and use of a vehicle. Therefore if there is any doubt as to the integrity of the installation of the detachable towball, do not use for towing. Either contact your local Witter fitting specialist, or visit our website www.witter-towbars.co.uk.**



Brukerveiledning

QUANTUM AVTAGBART KULESYSTEM

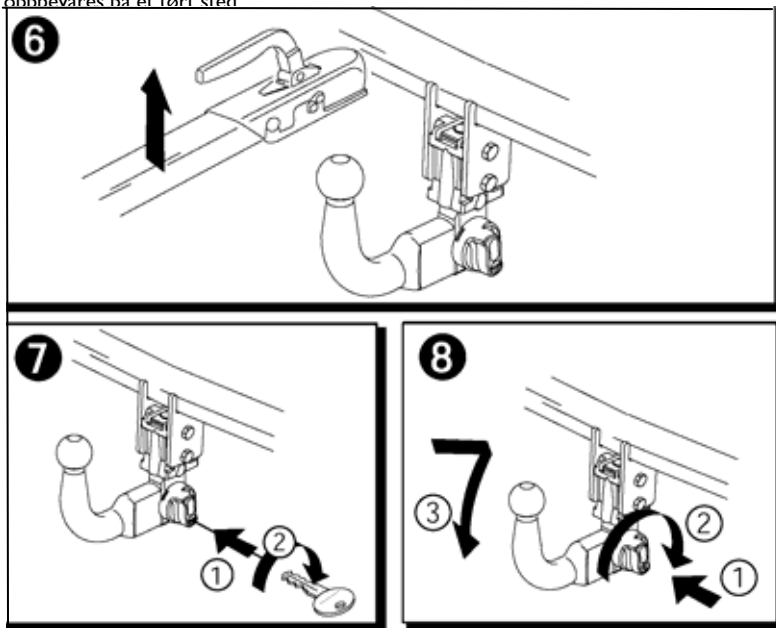


Frakobling av det avtagbare system, (følg bildeinstruksjon)

- A Fjern alltid tilhenger og utstyr som kan være i veien for betjeningshendelen før kulen frakobles, (bilde 6)
- B Lås opp kulen ved å dreie nøkkelen medurs (bilde 7)
- C Hold kulen med venstre hånd, press betjeningshendelen inn og vri denne medurs helt frem til den stopper, hendelen skal forbli i denne posisjon, (bilde 8)
- D Kulen er løs og vil nå gli ut av huset, påse at den tas forsiktig ut slik at den ikke faller i bakken med fare for å skade betjeningshendelen, (gjelder vertikal montasje), ved horisontal montasje trekkes kulen bakover ut av reseptorhuset.
- E Når kulen ikke er i bruk bør den oppbevares i posen som medfølger, dersom den oppbevares i bilen må den plasseres på et sikkert sted slik at den ved kraftig oppbremsing eller en eventuell kollisjon ikke kan forårsake skade.

Vedlikehold

Den avtagbare kule krever ikke noe spesielt vedlikehold, noen gode råd nevnes nedenunder. Kulen kan vaskes med mildt såpevann når den er montert, eller renses med en tørr klut når den er frakoblet. Benytt ikke flytende, fettløslige midler for rengjøring. Det anbefales noen dråper tynn olje i låsen. Kulen oppbevares på et tørt sted



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Quantum Detachable Towball System Upgrade Installation



MATERIALS

A	1	Receptor/Socket for Towball
T	1	Detachable Towball
K	2	Keys for Detachable Towball
X	4	M12 x 25 x 1.75mm Bolts, Spring Washers and Flat Spacer Washers (25mm O.D.)
FC	1	Fixed Weather Cover
RC	1	Removable Weather Cover
L	1	Centreline Label
B	1	Bag
ZQM1	1	Operation Manual

INSTALLATION PROCEDURE

- Place black plastic fixed weather cap (FC) over forward / (horizontal system) / upper (vertical system) holes of receptor/socket (A), insert receptor/socket (A) into gap between mounting plates on the Towbar, and loosely attach using bolts (X).
Notes: The electric plate angle bracket (ZEQ1), which is provided as part of the Towbar, should be refitted on the left hand side, together with the electrical socket mounting plate (ZEP1). Only use the 25mm O.D. Flat Spacer Washers (X) where there are no loose components attached, i.e. ZEQ1 (electrical socket angle bracket).
- Insert detachable towball unit (T), using procedure detailed in Operation Manual provided, and ensure correct vertical alignment of the towball before fully tightening bolts (X).
- Attach centreline label (L) to lower edge of bumper.
- Remove keys (K) from neck of towball, and record the key number in the Operation Manual, together with the fitter's name, telephone number, date fitted, vehicle model and registration number and Towbar part number.

Bumper Cut – It may be necessary to trim the bumper to allow adequate clearance around the operation handle on the right hand side.

Note: It is essential that the customer / end user is familiar with the operation of the towball system, as detailed in the Operation Manual, which must be handed to the customer / end user.

Recommended torque settings: M12 - 95 Nm



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