



# Fitting Instructions

TOWBAR PG35AQ  
For PEUGOET 407 SW (with reversing sensors)  
2004-

## MATERIALS

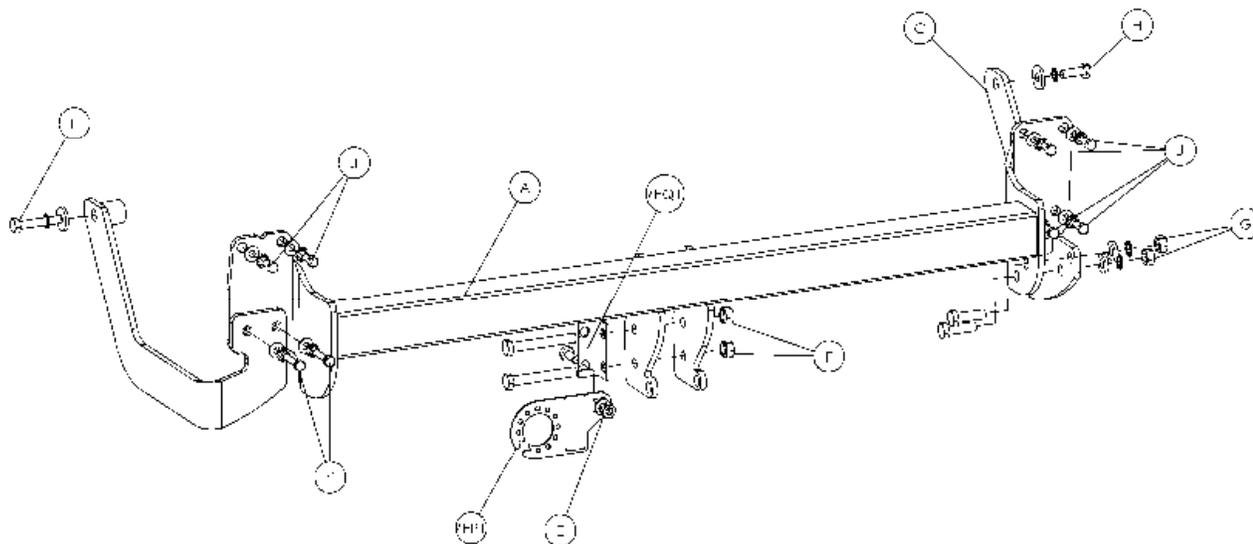
A	1	Cross Bar with European facing to 94/20/EC A50-1
C	1	Right Hand Side Arm
D	1	Left Hand Side Arm
E	1	M10 x 25 x 1.5 Bolt, Nut, Lock Washer and x2 Washer (20mm O.D.)
G	2	M12 x 40 x 1.75 Bolt, Nuts, Lock Washer and Washer (30 mm O.D.)
H	1	M10 x 30 x 1.5 Bolt, Lock Washer and Washer (25 mm O.D.)
J	6	M8 x 25 x 1.25 Bolt, Lock Washer and Washer (25 mm O.D.)
K	2	M8 x 40 x 1.25 Bolt, Lock Washer and Washer (25 mm O.D.)
L	1	M10 x 60 x 1.5 Bolt, Lock Washer and Washer (25 mm O.D.)
ZEQ1	1	Electrical plate bracket
ZEP1	1	Electrical plate
ZQ	1	Detachable neck kit (ZQ3008)

## FITTING

1. Check to ensure that you have all the necessary parts.
2. Disconnect and remove the rear light clusters: **x1 Plastic nut behind each light cluster, access to which is achieved by unclipping the inner boot linings.**
3. Dismount the rear bumper and reversing sensors: **Remove x1 nut in each light cluster seating area, x2 torx screws under each wheel arch, x5 torx screws on the bottom edge of the bumper, x1 nut on the lower central bumper support, x2 plastic poppers in the rear panel and finally x1 bolt on each of the left and right hand upper edge of the bumper. Note, access to these x2 bolts can be found through the previously removed inner boot lining covers.** Disconnect reversing sensors.
4. Dismount the rear crash beam: **Remove the x8 bolts and hand redundant crash beam to customer.**
5. Offer up crossbar (A) to the rear panel and finger tighten using Bolts (J).
6. Locate side arms (C and D) to the existing holes in the chassis rail and finger tighten bolts (H) and (L) into the existing captive nuts. **Note: existing holes are covered with tape. Access can be improved by removing 2 M8 bolts on inner arch.**
7. Connect side arms (C and D) to cross bar (A) using fixings (G and K). **Fully tighten every fixing to recommended torque settings.** To prevent the ingress of water, ensure all fixings passing into the vehicle are sealed using a silicone sealant.
8. Reassemble the rear bumper and light clusters in the reverse order to above.
9. Attach detachable neck (ZQ) and Electrical Plate Bracket (ZEQ1) following the additional fitting instruction provided. Attach Electrical plate (ZEP1) to Bracket using fixing (E). **Fully tighten all remaining fixings to the recommended torque setting.**

**Note:** This towbar must be used with either a Witter Towball (part number Z11) or Class A50-1 or A50-X towball dimensionally conforming to A50-1 with a 'D' and 'S' value greater than or equal to that of the towbar. Please refer to the vehicle specification for the trailer weight and nose limits, which **must be observed.**

**Recommended torque settings:** M8 - 27Nm, M10 - 53 Nm, M12 - 95 Nm, M14 - 150 Nm, M16 - 214 Nm





# Fitting Instructions

QUANTUM DETACHABLE  
TOWBALL SYSTEM  
(ZQ XXXX)

## 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

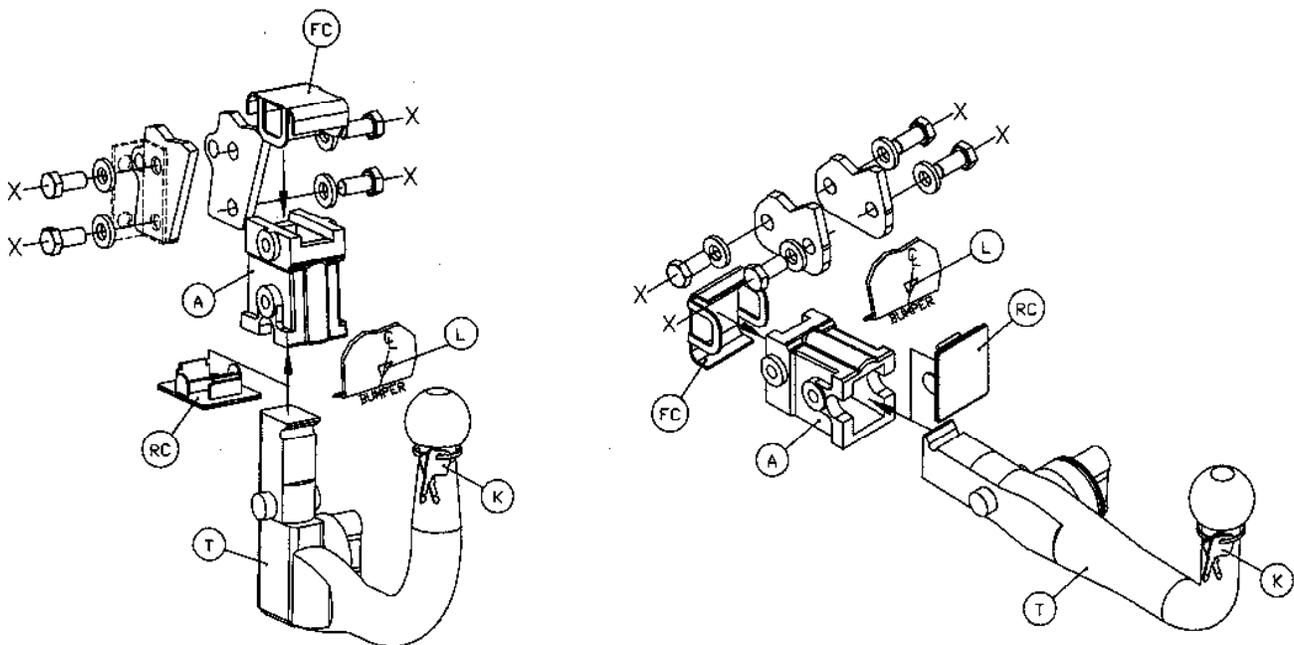
## INSTALLATION PROCEDURE

1. 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: (ZEQ1), which is provided as part of the towbar should be refitted on 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 mounting plate bracket, shown in dashed linetype below).
2. 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).
3. Attach centreline label (L) to lower edge of bumper.
4. Remove keys (K) from neck of towball, and record the key number in the Operation Manual, together with the fitters 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.**

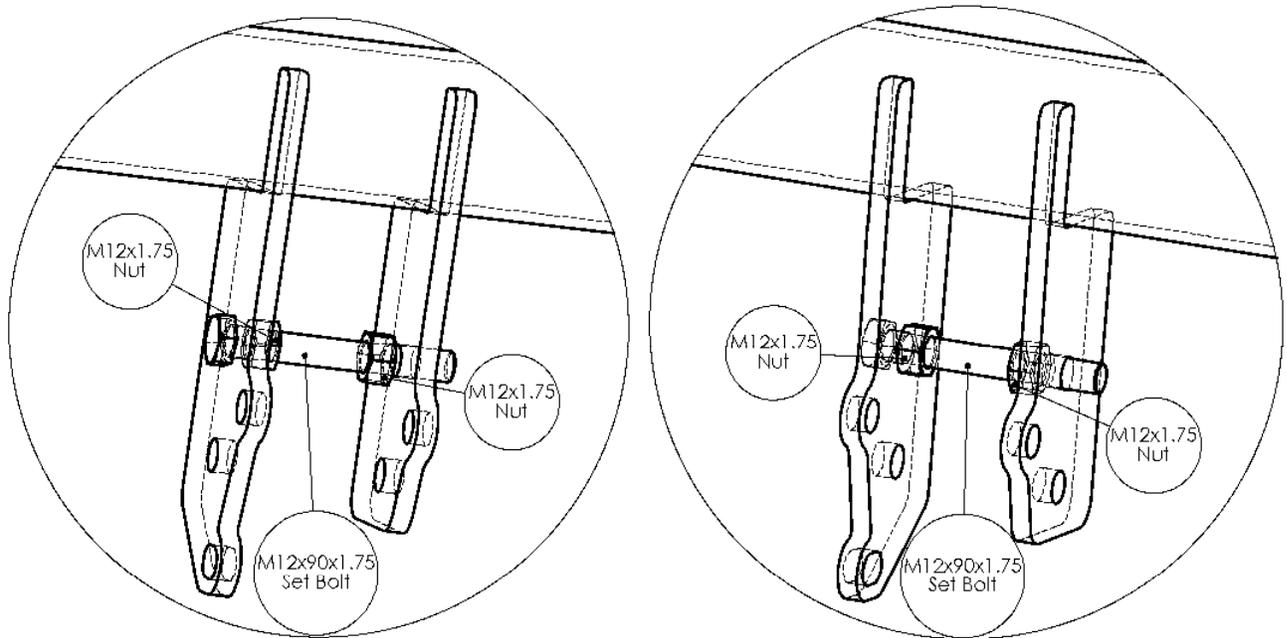
**Note:** It is essential that the customer/end user is familiar with the operation of the towball system, as detailed in the operation manual, which must be handed to the customer/end user.

**Recommended torque settings:** M12 - 95 Nm



**Important – It is essential to ensure that the Operation Manual is in the possession of the end user.**

## Splaying Centre Profile Shapes



It may be necessary to splay the centre profile shapes further apart in order to fit the centre components of the towbar between them:

- Insert the M12x90x1.75 Set Bolt through one of the profile plates, through the hole nearest the main crossbar.
- Thread both M12x1.75 nuts onto the Set Bolt.
- Screw one of the nuts all the way on, until finger tight.
- Unscrew the other nut so that it splays the two profiles apart far enough to just fit the centre components of the towbar between them when the spreading bolt is removed, (i.e. some allowance will need to be made for “springback” of the steel).