



# FITTING INSTRUCTION

**IZ4434**

Batch 000000

**Isuzu Rodeo/D-Max 2WD/4WD Pickup (With/Without Bumper/Step) 03-**

Type Approval Number e11 00-8000

## COMPONENTS

ITEM	QTY	DESCRIPTION
A	1	Towbar
B	1	Side Arm (LH)
C	1	Side Arm (RH)
D	2	Side Arm Extensions
E	2	Captive Nut Straps
CP	1	10mm Coupling Packer

## BOLT PACK

ITEM	QTY	DESCRIPTION
F	2	M16 x 55 Bolts, Nuts & Washers
G	4	M14 x 45 Bolts & Washers
H	1	M12 x 50 x 1.25 Fine Pitch Bolt & Washer
I	2	M12 x 45 Bolts & Nyloc Nuts
J	4	M12 x 35 Bolts & Nyloc Nuts
K	6	M12 x 40 x 1.25 Fine Pitch Bolts & Washers
L	4	M10 x 30 x 1.25 Fine Pitch Bolts & Washers
M	4	M14 Flat Washers – 28mm O/D x 2mm Thick
N	9	M12 H/D Washers – 30mm O/D x 5mm Thick
O	4	M10 H/D Washers – 30mm O/D x 5mm Thick

## FITTING PROCEDURE

### ⇒ Installation to vehicles without rear bumper / step (Refer to Illustration A)

- ⇒ Lower spare wheel. Remove fog lamp bracket bolted to the R/H chassis rail.
- ⇒ Loosely attach side plates (B) & (C) to the existing captive vertical fixings in the vehicle frame using fine pitch bolts (L) with heavy duty washers (O) under the bolt heads.
- ⇒ Loosely attach side plates (B) & (C) to the existing captive horizontal fixings in the chassis using fine pitch bolts (K) (3 on L/H and 2 on R/H as shown) with heavy duty washers (N) under the bolt heads.
- ⇒ Loosely attach the remaining bolt / fog light bracket on the R/H using bolt (H). (Use 3 washers (N) between the towbar and the bracket as shown, and 1 covering the slot on the outside of the bracket).
- ⇒ Attach towbar (A) to side plates (B) & (C) using bolts (J). Note: On 4WD variants attach towbar as shown. On 2WD variants invert towbar and attach coupling in the top position to give an increased towing height.
- ⇒ Ensure bolt (H) is tightened last. This will allow the fog lamp bracket to be rotated whilst bolts (K) and (L) are tightened. Raise spare wheel.

### ⇒ Installation to vehicles with rear bumper / step (Refer to Illustration B)

- ⇒ Note: Due to the range of aftermarket bumpers available for this model, compatibility cannot be guaranteed.
- ⇒ Lower spare wheel. Disconnect fog light & number plate wiring, and if required remove fog lamp from the bumper. Loosen all fixings securing bumper arms to the bumper (On black/grey bumper from 2007 remove the plastic from the top edge of the bumper to reveal some of these fixings). Remove bumper from vehicle (3 bolts either side) and place to avoid damage - (2 person lift recommended).
- ⇒ Remove the 4 M10 captive nuts in the base of the chassis by loosely inserting bolt (L) and tapping with a hammer to break the spot welds. Enlarge holes to 14mm O/D for bolts (G). Insert captive nut straps (E) into ends of chassis and loosely attach side plates (B) & (C) to these vertical positions using bolts (G) with heavy duty washers (M) under the bolt heads. Temporarily insert bolts (K) into the horizontal fixings. Holding the side plates against the chassis, fully tighten bolts (G). Remove bolts (K).
- ⇒ Loosely insert the forwardmost bolts (K) into the threaded fixings in the vehicle frame (Use heavy duty washers (N) under the bolt heads). With the aid of a second person reattach the forked bumper arm onto bolts (K). Support the bumper and insert remaining bolts (K) with heavy duty washers (N) under the bolt heads sandwiching side arms (B) & (C) between the bumper arm and the chassis. Note: On certain models a hole must be drilled in the bumper arm for uppermost bolt (K).
- ⇒ Loosely attach towbar (A) and side arm extensions (D) to side plates (B) & (C) using bolts (I). Attach side arm extensions (C) at remaining positions using bolts (J).
- ⇒ Ensuring both towbar and bumper are level, tighten all bolts.
- ⇒ Retighten bolts securing bumper arms to bumper. Reattach fog lamp and reconnect fog light and number plate wiring. Raise spare wheel. On 2WD models attach coupling (not supplied) in the upper hole setting.

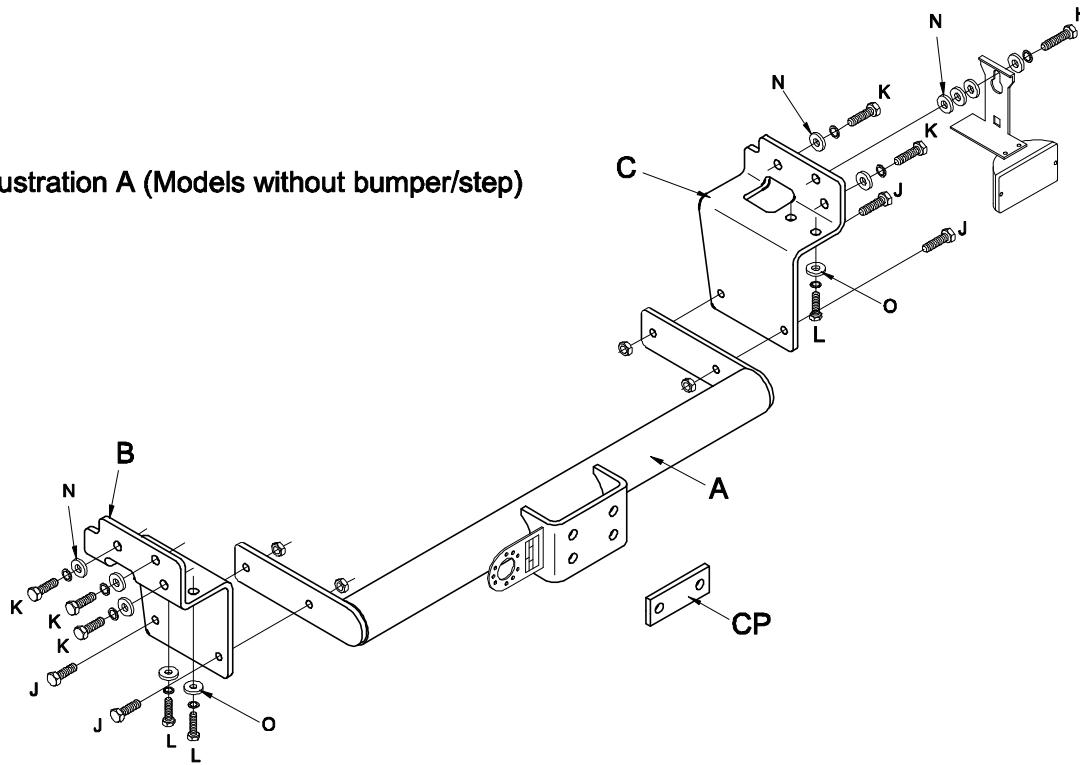
## TIGHTEN ALL BOLTS

TORQUE SETTINGS ISO Coarse Pitch M8=29Nm, M10=58Nm, M12=102Nm, M16=252Nm  
ISO Fine Pitch M8=31Nm, M10=61Nm, M12=111Nm

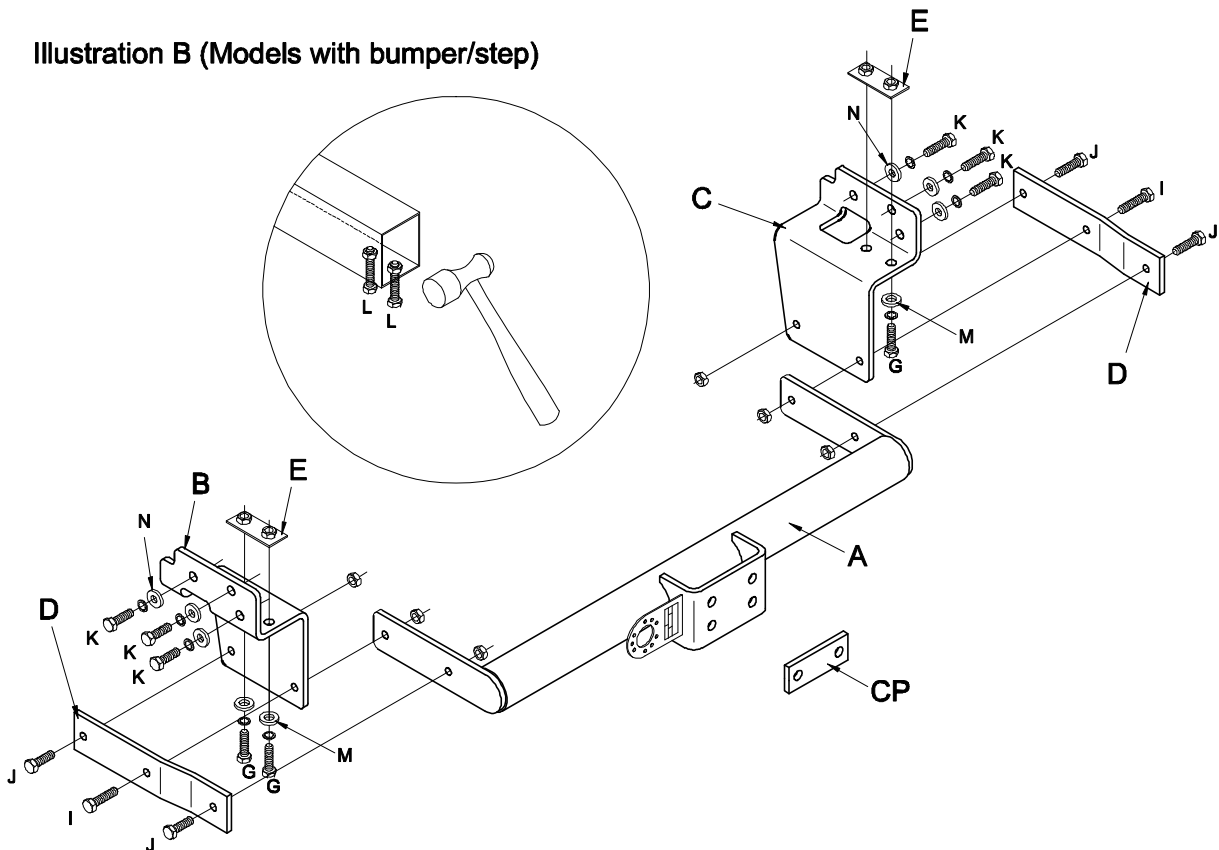
**THE VEHICLE MANUFACTURER'S SPECIFICATION FOR THE TRAILER WEIGHT AND NOSE LOAD LIMITS MUST BE OBSERVED.**

**FITTING DIAGRAM**

**Illustration A (Models without bumper/step)**



**Illustration B (Models with bumper/step)**



# IMPORTANT PRODUCT INFORMATION & GUARANTEE

## (TO BE RETAINED WITH THE VEHICLE AND PASSED TO SUBSEQUENT OWNERS)

Thank you for purchasing a PCT Automotive product. Please read the following information carefully before fitting or using your PCT Automotive product.

### GUARANTEE

We shall free of charge either repair or at our option replace defective goods where the defects appear

- i. if the goods are a towbar manufactured by us, during the economic lifetime of the vehicle it was first fitted to
- ii. in the case of all other products manufactured by us, within 3 years following the date of your order

PROVIDED THAT (in each case) such defects shall be found to our reasonable satisfaction to have arisen substantially from our faulty design, workmanship or materials and have not arisen by reason of a failure to follow our instructions (whether written or oral), any modification, misuse, neglect or interference with the installation, any damage or abuse to the goods or vehicle by impact or vandalism or by a failure to carry out reasonable inspection, maintenance and/or adjustment.

At all times, the above guarantee is subject to our standard terms and conditions of sale a copy of which is available upon request from our offices.

### TOWING LIMITS

Our towbars have been designed for towing up to the vehicle manufacturer's maximum recommended trailer weight and nose load limits for your model. Towing with gross weights above that recommended at any time will invalidate the guarantee and cancel any liability for damage. Towing a twin axle trailer, towing over rough ground or using a bicycle/motorcycle carrier, etc, exerts extreme loads on to a towbar and extra care should be taken in these situations not to exceed the vehicle manufacturer's maximum recommended limits.

### PRODUCT IDENTIFICATION MARK

Your product carries a product identification mark. This mark carries important product and batch code information and if the product is type approved it also carries the type approval details which are required by law. Under no circumstances should this mark be defaced, removed or damaged.

## INSTALLATION, INSPECTION, MAINTENANCE AND ADJUSTMENT

### GENERAL INSTALLATION

- ⇒ Products should only be fitted by competent persons.
- ⇒ Read the product fitting instructions carefully and check all components are included in the fitting kit before commencing installation.
- ⇒ Check vehicle for corrosion and/or accident damage. Towbars should not be fitted to any vehicle suffering from corrosion or accident damage or which is not in a roadworthy condition.
- ⇒ Clean off all road dirt, underseal and sound deadening mastic where parts are to fit to ensure correct seating of all components.
- ⇒ Bumper cut information is given as a guide only. Variations in models may occur therefore the fitter should always check that the bumper cut is necessary and of the correct size and shape before commencing with the cut.
- ⇒ All drilling swarf should be removed from the vehicle and all holes drilled in the vehicle should be treated with an appropriate rust inhibitor.
- ⇒ Do not fully tighten bolts before towbar is completely fitted unless instructed to do so in the fitting instruction, this will allow some variances to be overcome before final tightening of bolts.

### PAINT & CORROSION

Towbars manufactured by PCT Automotive undergo a phosphate chemical pre-treatment prior to an epoxy/polyester powder coat finish being applied. For long lasting good looks and in order to prevent corrosion the towbar should be regularly inspected for paint damage and wherever necessary re-painted in an appropriate finishing paint or underseal. The vehicle should also be regularly checked for any corrosion that could affect the towbar installation. Towbars should not be used on any vehicle suffering from corrosion that could affect the towbar installation.

### BOLTS

All towbar fixing bolts should be checked initially after the first 300 towing miles and then every 3,000 towing miles or to coincide with the vehicle manufacturer's recommended service intervals, whichever is the sooner, and should be tightened using an appropriate torque wrench to the settings specified in the towbar fitting instruction.

### ELECTRICAL INSTALLATION, TEST/COMMISSIONING AND MAINTENANCE

Failure to comply with the following instructions may cause damage to the towing vehicle's wiring loom and/or towing electrics installation.

Where displacement tap connectors e.g. Scotchlocks, are the preferred method of connection, always use the correct colour coded tap connector for the size of cable to which it is to be connected. PCT Automotive's manufactured relays with integral cables should be connected using red tap connectors (0.5mm<sup>2</sup> to 1mm<sup>2</sup>, conductor cross sectional area).

After installation of the 12N/12S sockets, prior to testing, a water displacement agent e.g. WD40 should be applied into the rear connection void through the water drain hole at the bottom of the sockets and also into the front pins under the socket flap. This socket maintenance should be carried out at least twice a year in the spring and autumn.

The towing electrics test procedure must be undertaken with the engine running. If any of the towing relays fail to function correctly, with the engine running and no other vehicle electrical systems turned on, check that the voltage across the vehicle's battery is between 13V and 14V approx, if this voltage is not correct, check the condition of the vehicle's battery/alternator.

Always ensure that the trailer/caravan/lighting board's own electrical systems are installed and functioning correctly before coupling to the vehicle's 12N/12S sockets.

Every six months (spring and autumn recommended) the battery and alternator of the vehicle should be checked to determine correct electrical functioning. All connections of the electrical installation including the earth should be checked for mechanical soundness and electrical quality. Plugs, sockets, relays and fixings should be checked for water ingress, mechanical soundness, electrical quality and general wear and tear.

*Please complete the following information to validate the guarantee and for future reference.*

VEHICLE OWNER NAME & ADDRESS:

VEHICLE MAKE & MODEL:

VEHICLE REGISTRATION NUMBER:

FITTER NAME & ADDRESS:

DATE TOWBAR FITTED:

If you have any comments or suggestions about the PCT Automotive product fitted to your vehicle, please address them to PCT Automotive, Holbrook Industrial Estate, Sheffield S20 3GH or email [techsupport@pctautomotive.com](mailto:techsupport@pctautomotive.com)  
Your comments will help us in our aim to continually upgrade our products to meet the high standards expected by our customers.