



Fitting Instruction

TOWBAR
For Ford Ranger 2012- F159A
Chrome Bumper Model Only

MATERIALS:

A	1	Cross Bar with 4-hole Face Plate to EC94-20
B	2	Side Arm
C	2	Angle Bracket
D	2	Nut Plate
E	2	Packer
F	2	M12 x 40 x 1.75p Bolts, Plain Washers and Serrated Flanged Nuts
G	6	M12 x 40 x 1.75p Bolts, Lock Washers, and Plain Washers
H	4	M12 x 40 x 1.75p Bolts, Lock Washers, Plain Washers, Witter Cage Nuts & Retainers
J	4	M12 x 40 x 1.75p Bolts, and Serrated Flanged Nuts
K	6	M12 x 40 x 1.75p Bolts, Serrated Flanged Nuts and bolt caps
L	4	M10 x 30 x 1.5p Bolts, Serrated Flanged Nuts and washers
CB	2	M16 x 50 x 2.0p Bolts, Lock Washers, and Nuts

This tow bar must be used with either a Witter Tow ball (part number Z11) or Class A50-1 or A50-X tow ball, which dimensionally conforms to A50-1 with a 'D' and 'S' value greater than or equal to that of the tow bar.

FITTING:

1. Remove Rear Under-run Bar from its support arms (2 bolts each side).
2. Remove each Under-run Bar Support Arm from the vehicle chassis rails.
3. Assemble Side Arms (B) and Packers (E) to outside face of each chassis rail using fasteners (F & G).
4. Assemble Angle Brackets (C) to each Side Arm (B) using fasteners (J).
Note orientation of slotted holes in Bracket (C) against the bottom face of each chassis rail.
5. Assemble Witter Cage Nuts (H) to Nut Plate (D) and insert the assembled plate into the rear end of each chassis rail..
6. Finish the assembly of Angle Brackets (C) to the vehicle using fasteners (H) through the bottom face of each chassis rail and into assembled Nut Plates (D), already located within the chassis rails.
7. Assemble Cross Bar (A) to each Side Arm (B) using fasteners (K).
8. Re-Assemble the Vehicle Chrome Bumper to the Side Arms (B) using existing fasteners or bolts (L). **(Note: Nuts (L) are not required for refitting of the Chrome bumper.**
9. Fully tighten all fasteners

Recommended torque settings:

Grade 8.8 bolts: M10 - 52 Nm, M12 - 80 Nm, M16 - 200 Nm / **Grade 10.9:** M12 - 120Nm, M10 - 70Nm

