



#### Kovil Oy

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# INSTALLATION INSTRUCTIONS

#### Vehicle information:

Make (manufacturer): TOYOTA

Model(s): Auris Touring Sports (TS) 2013-Type(s): E15U; HE15U; \*\*E18\*\*

### Towbar information:

Product No (Version): 53612E EC type: KD333

ECapproval No: E11 55R-01 9832

Vertical mass on coupling S: max. 72 kg (See vehicle data) D-value D: max. 8.62 kN

Weight of towbar: 18 kg

D -value equals e.g. C = 1600 kg and T = 1950 kg. Follow also vehicle specified restrictions (see registration document and other data of vehicle). D -value of towbar must not be exceeded.

D= D -value [kN]
T= Maximum mass of vehicle [kg]
C= Maximum mass of centre axle trailer Vertical mass (S) on coupling [kg]

 $T = C \times D \times 1000 I ((C \times 9.81) - (1000 \times D))$   $C = T \times D \times 1000 I ((T \times 9.81) - (1000 \times D))$ D T x C x 9.81 / ((T + ©) x 1 000)

## General instructions:

# READ INSTALLATION INSTRUCTIONS BEFORE INSTALLING THE TOWBARI

Remove underseal or other thick coating on contact area between bodywork and towbar. Treat bare sections (and drilled holes) with thin anti-corrosive coating.

Clean threads of welded nuts and screws before assembly. Installation instructions and other operating and maintenance instructions, if enclosed, shall

- Coupling ball must be kept clean and greased

be kept with vehicle documents.

#### Notice

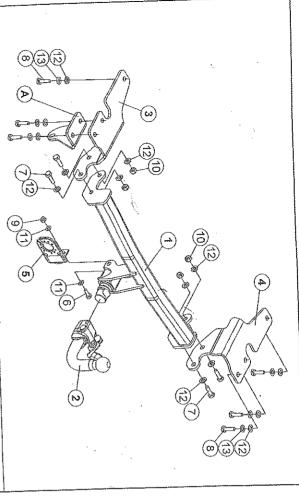
- Constructional changes to towbar or to its assembly are forbidden. Defective towbar must be replaced with a new one together with complete assembly set.
- Smallest diameter of coupling ball must not be less than 49 mm to any direction.
- Manufacturer's responsibility shall not concern any damage caused by incorrect installation or use of towbar.

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ر. د.	21		Pos Ot	Installation set:	
1 Fixing bracket left	Ballpart	Cross beam	Part	set:	

9,1	86	74	) )	5	4
91 Lock nut	8 6 Screw	7 4 Screw Vin2 x 35	6 1 Screw M10 x 25	51 Socket holder	4 1 Fixing practice right
- Wi12	M10	M12 X 35 X 10	M10×25	)	

(A1 Original towing bracket)	1 E-housing cap Lalye
	91. 10.

10.... 12.... 13.... 1 Fixing bracket right .....6 Spring washer ... 14 Washer ... 4 LOCK DUT ..... .2 Washer ..... ... M12 13 × 24

Appendices: \_\_\_\_\_1 Operating and maintenance instructions (KE1)

operating lever and bumper. Ball part may not lock if the some free space between Notice! Check that there is lever meets the bumper

Notice! Unpack the installation set and check before assembly that all parts are included. For removing parts from vehicle see detailed instructions in workshop marnual!

Hint: Follow installation instructions for electric wiring kit and install wires while mounting the towbar.

- Release plastic bottom covers on left and right under the vehicle (see sketch  ${f B}$ ).
- Release original towing bracket A from left side frame. Remove heat protection plate (if mounted) above rearmost silencer. Plate will not be re-rnounted
- Mount fixing bracket left (3) and towing bracket A loosely in nuts on side frame using wa shers (12), spring washers (13) and screws (8).
- Mount towbar cross beam (1) in fixing brackets (3) and (4) loosely using screws (7), washers (12), and nuts (10). (13) and screws (8). Mount fixing bracket right (4) loosely in nuts on side frame using washers (12), spring weashers
- Align parts and tighten all screws / nuts carefully to the right torque, see table
- Cut plastic bottom cover according to marked areas (see sketch B)
- Mount bottom plate and other demounted parts back to vehicle.
- Mount socket holder (5) in towbar cross beam (1) with screw (6), washers (11) and nut  $\bigcirc$  9.
- Ball part (2) will be installed and maintained according to enclosed manual. Follow the instructions frequently.

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