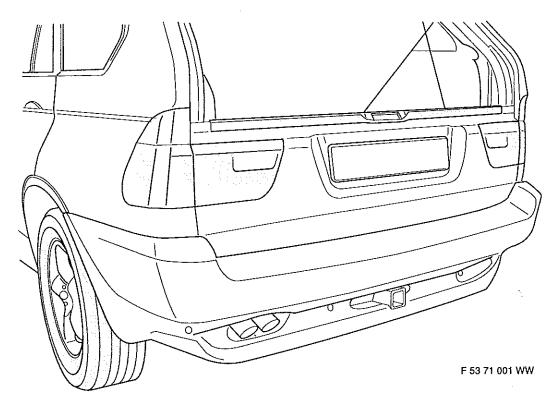


# **Installation Instructions for Parts and Accessories**



Retrofitting Tow bar BMW X5 (E53) US Specialized knowledge required

Order no. 01 29 0 009 710 VII/00 303 169 391 102

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#### 1. Important Information

Read all information and installation instructions carefully before starting this installation procedure.

The care and maintenance instructions are contained in the operating instructions for the tow bar.

If no electric brake module is retrofitted, be sure to apply the enclosed adhesive labels with the warning "no electric brake" next to the adhesive label (ball position) on the painted surface of the bumper (clean application service beforehand) (see Figure 53 71 020 WW on Page 2-17).

#### General information

The installation instructions describe the tow bar BMW X5 (E53) US.



# Bolting regulation

- First mount all bolts and nuts by hand and tighten loosely.
- Align tow bar.
- Tighten bolts and nuts in following order:
- 1. Nuts with rolled-on washer on tow bar/rear panel
- 2. Hexagon bolts M10x30 and M10x85 on longitudinal member/vehicle underside
- 3. Hexagon bolts M10x30 on longitudinal member/luggage compartment

#### Required tools and aids

Straight-blade screwdriver Phillips screwdriver Reversible ratchet with hexagon socket SW8, SW10, SW13 and SW16 TORX screwdriver T20 and T55 Torque spanner



The electric brake for the trailer is not connected!

A connection pin for retrofitting is provided on plug X393S.

If an electrical brake is desired for the trailer, it can be retrofitted.

For the latest list of recommended brake controllers contact BMW Service Hotline.

The signal pick-off for "brake" (the input to the brake controller) may only take place on plug X12, Pin 10.

This plug, X12, is to the Light Control Module (LCM), the wire color is black and yellow.

The output of the brake controller must be connected to plug X393S, Pin 11.

The male pin (BMW P/N 61 13 1 376 195) should be used at the mating plug of X393S.

Be sure to observe this information.

# 1.1 Parts list

ltem	Description	Quantity
а	Basic tow bar	1
b	Left support	1
С	Right support	1
ď	Bumper carrier	1
е	Spacer	2
f	Bumper bracket	2
g	Hexagon bolt M10x30 - 10.9	6
h	Hexagon bolt M10x85 - 10.9	2
i	Hexagon bolt M10x50 - 10.9	4
J	Hexagon bolt M10x130 - 10.9 (alternative: M10x135 - 10.9)	4
k	Washer 10,5x25x3	8
ı	Nut M10 with rolled-on washer	8
m	Adhesive label (ball position)	1
n	Electrical socket bracket	1
0	Wirning harness with electrical socket, 7-pin	1
р	Trailer module AHM II	1
q	Hexagon bolt M6x16	2
r	Half-round bolt M5x15	4
s	Washer 6,6x14x1,5	2
t	Adhesive label (warning)	1
u	Cables ties, long	1
٧	Cables ties, short	3
W	Installation instructions	1
x	7-way to 4-way adapter	1

## 2. Retrofitting Tow bar

#### Note

Observe safety instructions in Chapter1.

The accessories are installed based on the known workshop information.

### 2.1 Necessary preliminary work

Print out fault memory.

Disconnect battery.

Fold up floor cover.

Remove spare wheel.

Remove luggage compartment trim on right and left.

Remove luggage compartment trim on rear panel.

Remove rear bumper.

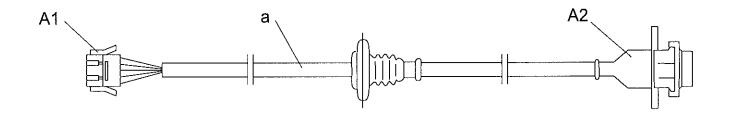
Remove metallic impact absorbers (The metallic impact absorbers are no longer required with the tow bar mounted).

Remove mufflers and heat shields.

# 2.2 List of connections for additional wiring harness

# Fold out fold-over page 2-3!

Item	Version/Designation	Cable Colour	Connection in Vehicle	Brief Description/Slot
a	Additional wiring harness			
A1	Black, 12-pin, socket housing	-	Connection plug X393s	-
A2	7-pin trailer plug	•	Electrical socket bracket of tow bar	X630



#### 2.3 Installing Tow bar

#### Fold out fold-over page 2-11!



Remove carefully LH and RH rear mufflers and heat shields to gain access to mounting holes in vehicle body. Mount the left and right support (1) through the opening for the metallic impact absorber (a).

#### В

Tighten the supports (1) with the bolts M10x85 (2) and washers 10x25x3 (3), and the bolts M10x30 (4) and washers 10,5x25x3 (3) hand tight.

The support brackets are position specific. The locating pin on each bracket must be in the lower inward position.

#### C

Put in the bolts M10x50 (5) into the basic part of the tow bar (6). Put in the bolts M10x130 (7) into the left and right bumper bracket (8). Bend the tongues of the cages by a hammer.

#### D

If installing additional wiring harness is desired, perform all steps (that apply) in 2.4 Installing additional wiring harness before proceeding with the remainder of this step.

Screw on the basic part of the tow bar (6) with spacers (9), bumper brackets, left and right hand side specific (8), and M10 fastening nuts with rolled-on washers (10). Hand tighten from the rear luggage compartment area. Position each bumper bracket on the tow bar with the protruding end of the center tube facing down.

#### Ε

Screw on 2 bolts M10x30 (11) and washers 10,5x25x3 (3) each with the welded nuts on the vehicle at position (b) on the right and left, hand tight from the luggage compartment.

# Align towing hitch.

- 1. Firmly screw on 4 nuts M10 with rolled-on washer (10) each on the right and left to secure the tow bar on the rear panel (see Fig. D).
  - Tightening torque: 65 Nm.
- 2. Firmly tighten the bolts (2) and (4) in the longitudinal member (see Fig. B). Tightening torque: 65 Nm.
- 3. Firmly tighten the bolts (11) (see Fig. E). Tightening torque: 65 Nm.

#### F

Remove the bumper carrier from the bumper.

(Old bumper carrier is no longer required with the tow bar mounted).

#### G

Fit the new bumper carrier BMW - order no.: 51.12-8250415 in the bumper and secure.

#### Н

Reinstall heat shields and rear mufflers.

Secure the bumper with the mounted bumper carrier on the vehicle.

(Previously removed Torx screws (12) are now screwed to the tow bar. Tightening torque: 55Nm)

The metallic impact absorbers are no longer required with the tow bar installed.

ı

Apply the adhesive label (ball position) in the centre over the mounting pipe on the painted surface of the bumper (clean application area beforehand).

J

The ball mount used should not exceed the dimensions as shown.

The following maximum trailer and tongue weights are authorized for the tow bar:

Max. Trailer Weight

Weight Distributing 6 000 lb Weight Carrying 6 000 lb

Max, Tongue Weight

Weight Distributing 600 lb Weight Carrying 600 lb

Depending on vehicle model type and use, and trailer type and use, lower trailer and tongue weights may be required. Refer to your vehicles owners manual for specific gross vehicle weight rating (GVWR). Do not exceed the vehicle GVWR.

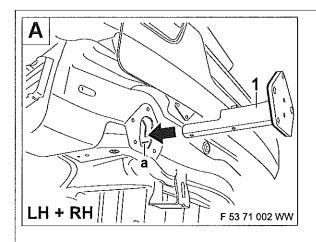
eight cylinder models with automatic transmission, six cylinder models with manual transmission.

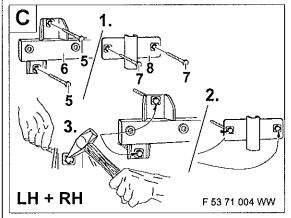
- \*\*Maximum towing weight for trailers with brakes (on road).......................5000 lbs.
- \*\*Maximum tongue weight for trailers with brakes (on road)......600 lbs.

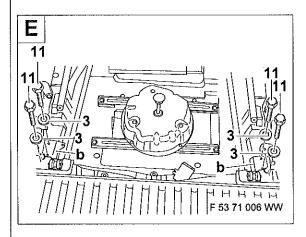
The tow bar may only be used with a suitable ball. It is only used to pull trailers equipped with a suitable coupling. When towing a trailer, attach the hitch safety chain to the lugs provided. It is not permissible to alter the tow bar, or to carry out drilling or cutting operations or other modifications on it. Any other use of the tow bar is prohibited. Trailer hitches damaged due to an accident, bottoming or crashing must be replaced.

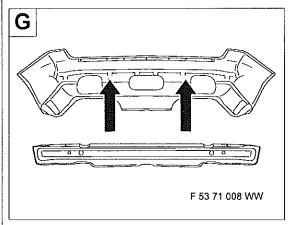
<sup>\*</sup>Applies only to:

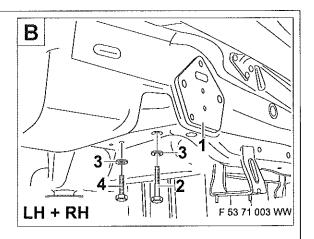
<sup>\*\*</sup>Applies to six cylinder models with automatic transmissions.

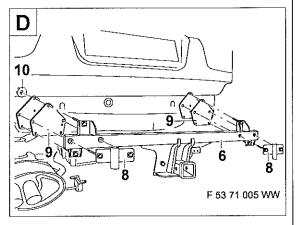


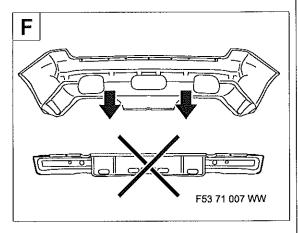


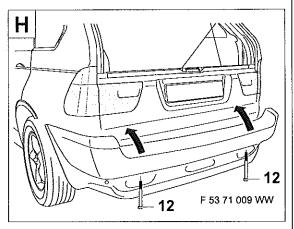


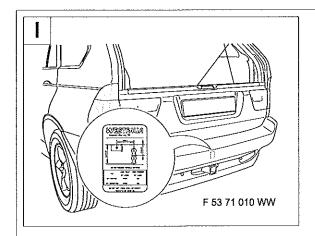


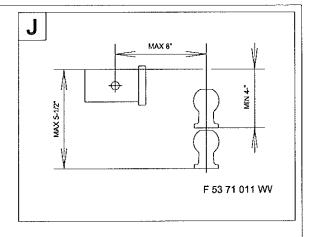








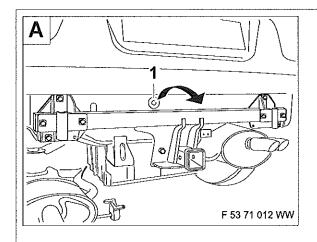


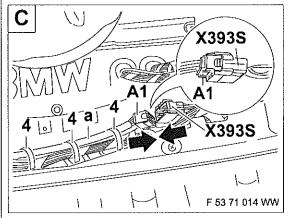


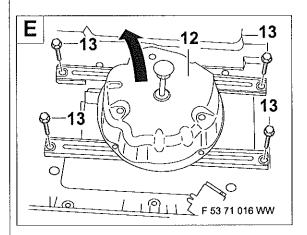
# 2.4 Installing additional wiring harness

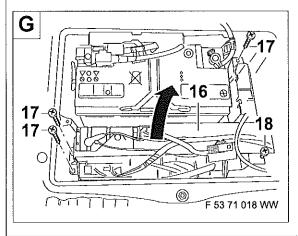
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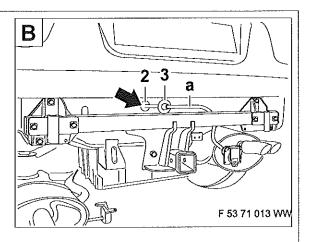
A Remove the blind plugs (1).
B Route the wiring harness (a) through the hole (2) and insert the rubber grommet (3) in the hole.
The rubber grommet must be firmly seated in the hole to prevent the entrance of water. Seal off with silicone if necessary. ◀
C Route the wiring harness (a) along the vehicle wiring loom to the 12-pin plug housing (X393s) at the rear right. Connect the 12-pin socket housing (A1) of the wiring harness (a) to the 12-pin plug housing (X393s). Secure the wiring harness (a) on the vehicle's own wiring harness with cable ties (4).
D Secure the electrical socket bracket (b) at position c with the hexagon bolts M6x16 (5) and washers 6,6x14x1,5 (6). Secure the trailer electrical socket 7-pin (11) on the electrical socket bracket with the slotted screws (7) provided. Secure the wiring harness (a) on the cross pipe of the tow bar with a cable tie.
Make sure that the harness connector (10) is correctly connected with the electrical socket 7-pin (11). Make sure that the secondery lock (9) of the harness connector (10) is locked.
E Remove the spare wheel bracket/air suspension pump assembly (12) by removing the 4 screws (13).
Make sure that the connected cables are not damaged. ◄
Remove the plastic cover plate (14) by unscrewing the 3 screws (15).
G Remove the plastic carrier plate (16) by removing the 3 screws (17) and just loosening the screw (18). Carefully remove the plastic carrier plate (16).
Make sure that the connected cables are not damaged. ◀
H Clip the trailer module (19) onto the plastic carrier plate (16). Connect the black 15-pin socket housing (X609) to the trailer module (19).
Make sure that the 15-pin socket housing lock (X609) has fully engaged. ◄
All removed parts are reinstalled in the reverse order. ◄
If no electric trailer brake control module is retrofitted to the vehicle, apply the enclosed adhesive label with the warning "No electric brake" next to the adhesive label (ball position) on the rear bumper. Clean bumper surface before applying labels. Reference F 53 71 020 WW on page 2-17.

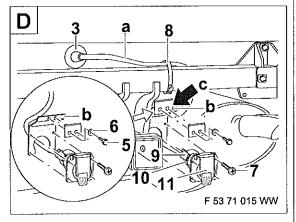


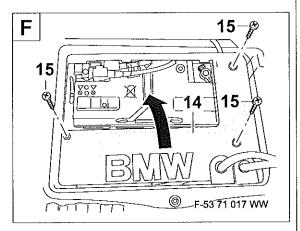


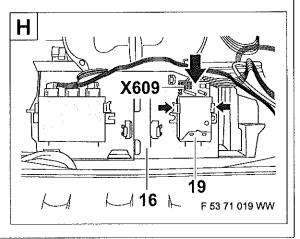


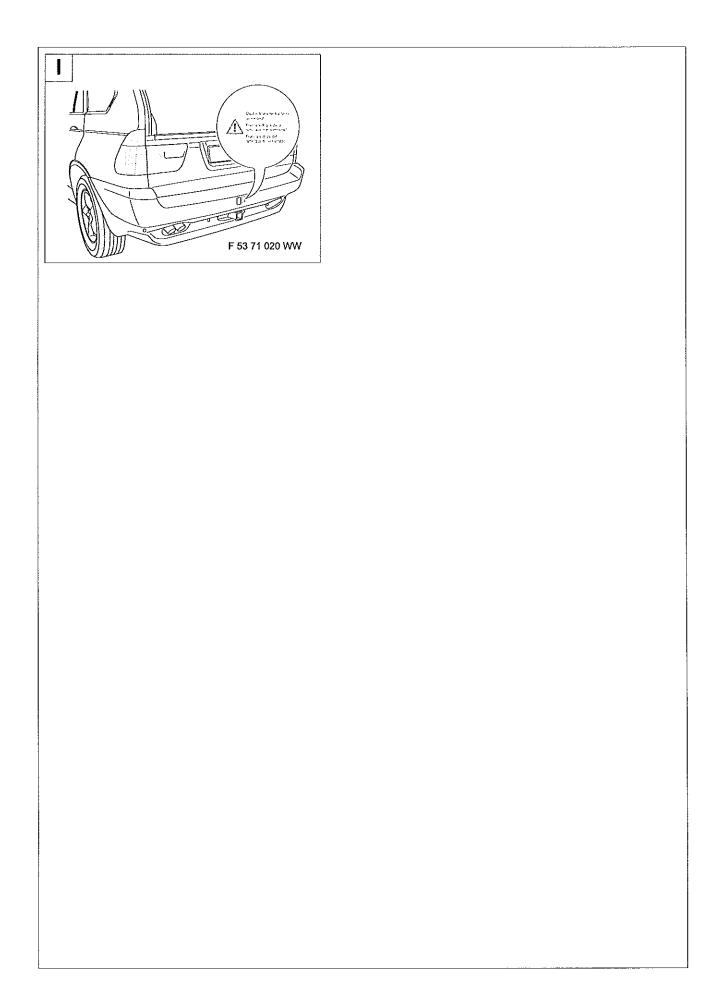












# 2.5 Operating check

Electrical check:

Check the operation of the trailer lighting each time a trailer is connected.

# 3. Circuit Diagram

## Fold out fold-over page 3-4!

A3	Light module
A6	Trailer module
A48	Fuse holder III
X12	Light module A
X38	Light module B
X318	Tail light right I
X319	Tail light left I
X393	Kar trailer module
X494	Earth-VII
X498	Earth-VIII
X595	VB 58
X609	Trailer module
X1232	VB 58R
X1986	K530 <f205< td=""></f205<>
X10017	Fuse holder III A48
X10117	Light module C

