

**HomeLink® Installation Instructions (Garage Door Opener)**



**Note**

This Technical Information replaces the TI dated May 23, 2005.

**Changes/additions** compared to the previous Technical Information:

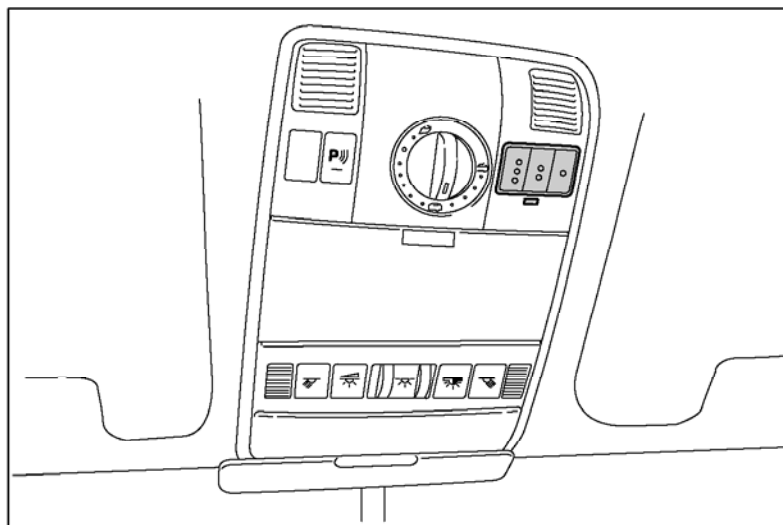
- Work procedure
- Working time

Vehicle Type: **Cayenne/Cayenne S/Cayenne Turbo/Cayenne Turbo S**

Model Year: **As of 2003**

Situation: **Retrofitting**

Notes: The programmable garage door opener can replace up to three hand-held transmitters, e.g. for operating garage door, gate to property or alarm system. Due to various registration regulations governing the frequencies in the different countries, the control unit must be coded accordingly. This is not described in this TI. The procedure is described in the Workshop Manual.



Parts Info: **955.044.900.27**

Garage door opener set

## Parts List

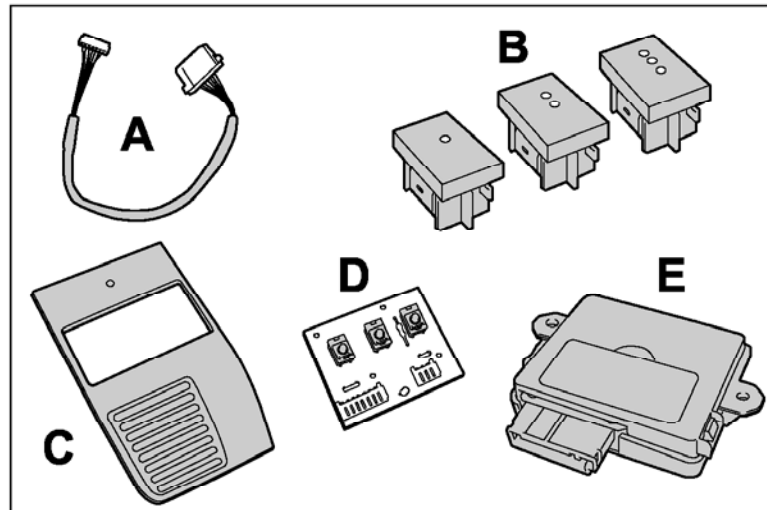


Figure 2

955.612.502.00	1 x	Electric wire harness ⇒ Figure 2 -A-
955.613.312.01	1 x	Three caps with symbols, black ⇒ Figure 2 -B-
955.613.334.00	1 x	Trim for switches, black ⇒ Figure 2 -C-
955.613.254.00	1 x	Printed circuit board (PCB) ⇒ Figure 2 -D-
N.909.151.01	6 x	Oval-head screw, 2.2 x 8 (not shown)
955.618.038.00	1 x	Control unit for garage door opener, USA (not shown) (2 E not for USA)
999.652.901.22	1x	Socket contact (micro-quad lock) (not shown)

**WARNING**

**Danger of accidents if persons, animals or objects lie in the swinging range of the controlled mechanism during operation of the garage door opener.**

⇒ **Ensure that there are no persons, animals or objects in the swinging range of the controlled mechanism during operation of the garage door opener.**

⇒ **Observe instructions for remote control for doors or systems to be operated.**

Materials:	----	1 x	Tie-wrap (commercially available)
	----	0.2 m	Wire 0.35 <sup>2</sup> (commercially available)
	----	---	Electrical tape (commercially available)

- Tools:
- PIWIS Tester 9718
  - Battery charger
  - Pliers Nr. 155-2 Pos.2
  - Stripping pliers Nr.155-2 Pos.4
  - Hot-air blower Nr.155-1 Pos.2

Work Procedure: 1 Overview of block diagrams

1.1 Block diagram up to model year 2006 ⇒ *Figure 4-F1-*.

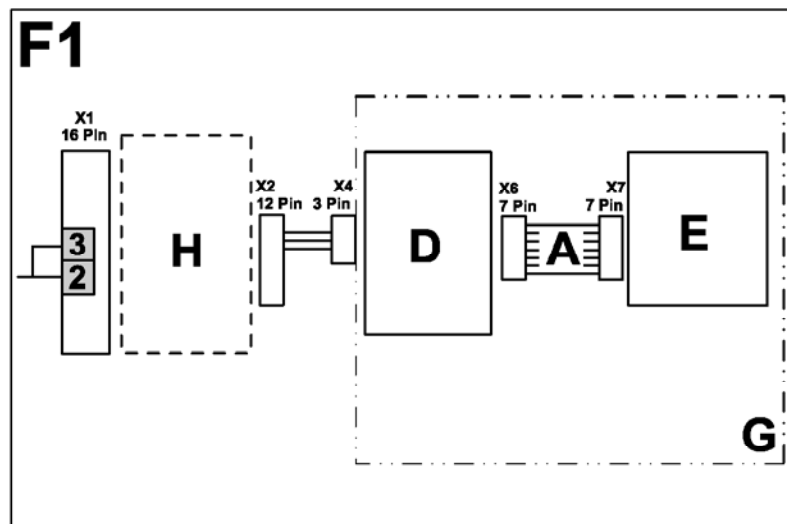


Figure 4

- A** – Electric wire harness
- D** – Printed circuit board (PCB)
- E** – Control unit for garage door opener
- H** – Comfort lighting module
- G** – Garage door opener retrofit kit
- X1** – 16-pin connector for roof assembly
- 2** – RD/GN wire (30G)
- 3** – Wire 0.35<sup>2</sup> (see Materials)

1.2 Block diagram as of model year 2008 ⇒ *Figure 3-F2-*.

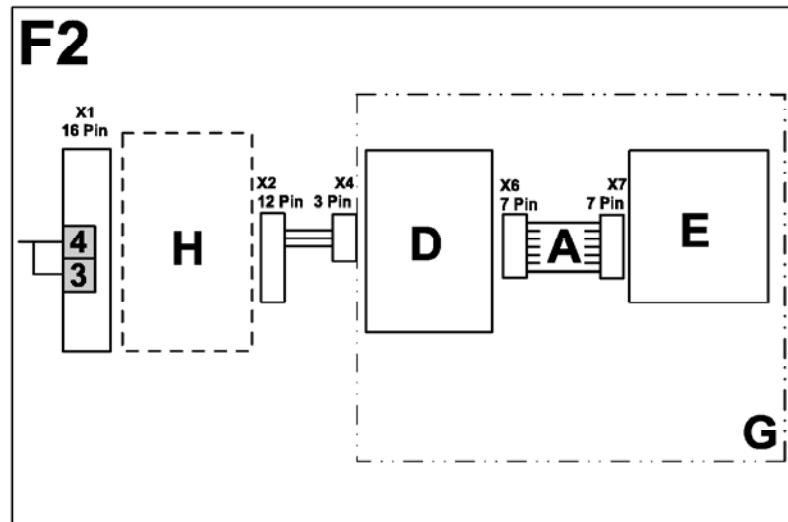


Figure 3

- A** – Electric wire harness
- D** – Printed circuit board (PCB)
- E** – Control unit for garage door opener
- H** – Comfort lighting module
- G** – Garage door opener retrofit kit
- X1** – 16-pin connector for roof assembly
- 3** – Wire 0.35<sup>2</sup> (see Materials)
- 4** – RD/GN wire (30G I)

## 2 Preparatory work



### WARNING

**Risk of short circuit and fire due to work on vehicle electrical system.**

- ⇒ **When working on the electrical system, the battery must always be disconnected and covered.**
- ⇒ **Always route the electrical leads without tension and so that no chafing occurs. Secure to existing harnesses/components with tie-wraps/electrical tape.**

- 2.1 Disconnect the battery. ⇒ *Workshop Manual '90 Work instructions after disconnecting the battery'*
- 2.2 Remove roof console. ⇒ *Workshop Manual '601219 Removing and installing switch for sliding roof - section on "Removing"*

- 3 Connect electric line 0.35<sup>2</sup> to the 16-pin connector for the roof assembly (X1).
  - 3.1 Remove tie-wrap from 16-pin connector for the roof assembly (X1).

- 3.2 Use a small flat screwdriver to open the lock ⇒ *Figure 5 -arrow-* and separate connector housing from the plug carrier.
- 3.3 Remove wrapping tape from wire harness.

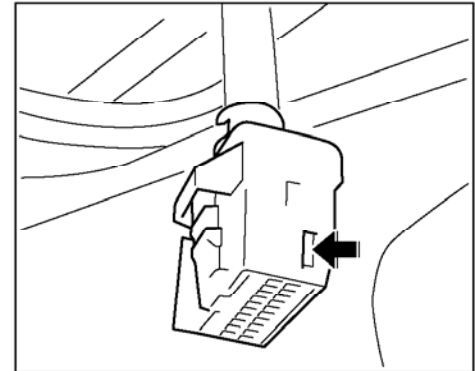


Figure 5

3.4 **Only** for vehicles with cutting-crimp plug carriers:

- 3.4.1 Remove cutting crimp ⇒ *Figure 6 -A-* from **chamber 3**.
- 3.4.2 Crimp cutting crimp ⇒ *Figure 6 -A-* at one end of the additional electric line 0.35<sup>2</sup>.
- 3.4.3 Connect the other end of the additional electric line 0.35<sup>2</sup> as a splice to the electric line from **chamber 2** (30G).

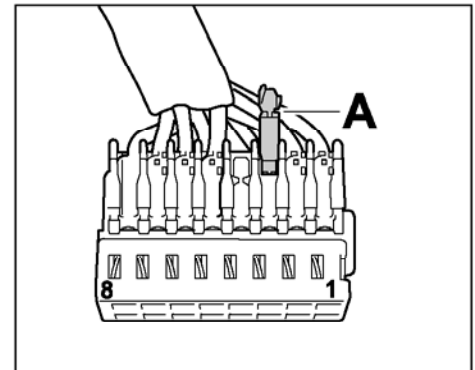


Figure 6



**Note**

Ensure socket contact is seated securely.

- 3.4.4 Insert cutting crimp into **chamber 3** of the plug carrier.

3.5 **Only for vehicles with micro-quad lock connectors up to model year 06:**

- 3.5.1 Press socket contact of line RD/GN 0.35<sup>2</sup> out of **chamber 2** (30G) ⇒ *Figure 7 -A-*.

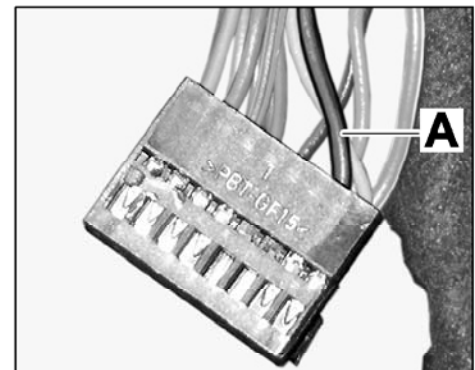


Figure 7

- 3.5.2 Crimp micro-quad lock (999.652.901.22)  $\Rightarrow$  *Figure 8-A* at one end of the additional electric line 0.35<sup>2</sup>.
- 3.5.3 Connect the other end of the additional electric line 0.35<sup>2</sup> as a splice  $\Rightarrow$  *Figure 8-B* to the electric line RD/GN 0.35<sup>2</sup> from **chamber 2** (30G).

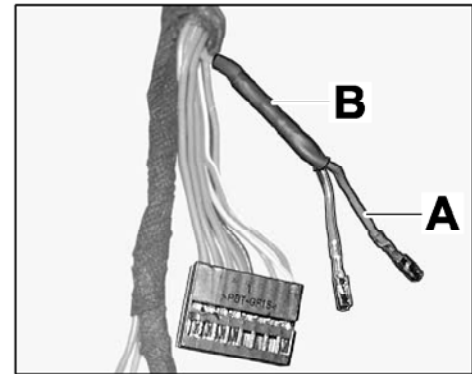


Figure 8

**Note**

Ensure socket contact is seated securely.

- 3.5.4 Insert socket contact of line RD/GN 0.35<sup>2</sup> into **chamber 2** (30G) and additional micro-quad lock into **chamber 3**.

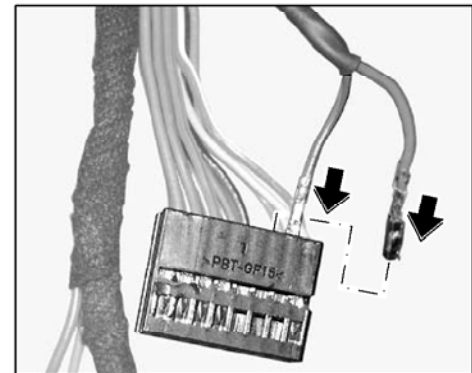


Figure 9

- 3.6 **Only for vehicles with micro-quad lock connectors as of model year 08:**
- 3.6.1 Press socket contact of line RD/GN 0.35<sup>2</sup> out of **chamber 4** (30G I)  $\Rightarrow$  *Figure 10-A*.

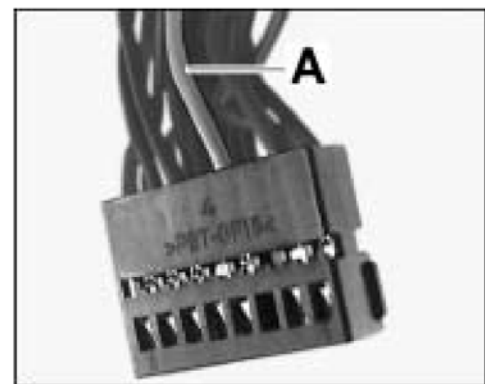


Figure 10

- 3.6.2 Crimp micro-quad lock (999.652.901.22) ⇒ *Figure 11 -A-* at one end of the additional electric line 0.35<sup>2</sup>.

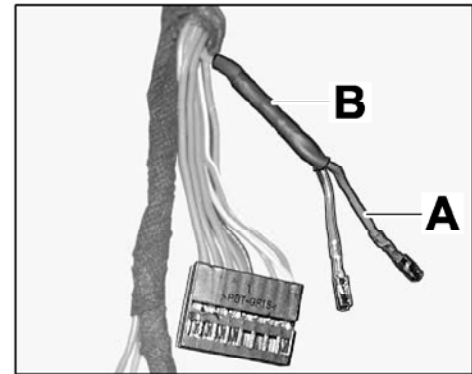


Figure 11



**ATTENTION**

**Do not connect additional electric line as a splice to terminal 30G II, chamber 2!**

- **Roof console Wake-up function does not work!**
- ⇒ **Connect garage door opener to terminal 30G I, chamber 4.**

- 3.6.3 Connect the other end of the additional electric line 0.35<sup>2</sup> as a splice ⇒ *Figure 11 -B-* to the electric line RD/GN 0.35<sup>2</sup> from **chamber 4** (30G I).



**Note**

Ensure socket contact is seated securely.

- 3.6.4 Insert socket contact of line RD/GN 0.35<sup>2</sup> into **chamber 4** (30G I) and additional micro-quad lock into **chamber 3**.

- 3.7 Push connector housing onto the plug carrier until the lock engages.
- 3.8 Fasten tie-wrap.
- 3.9 Wind wrapping tape around wire harness.
- 4 Install caps with symbols (switches) in roof console.

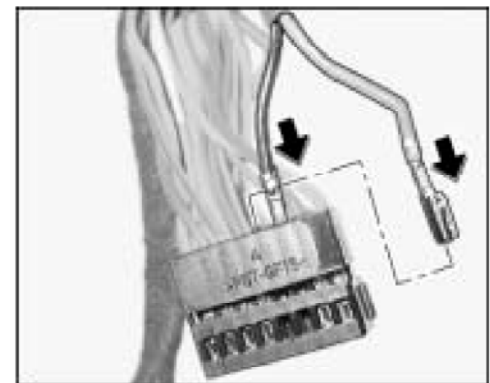


Figure 12

- 4.1 Unclip cover ⇒ *Figure 13-A-* from headliner.

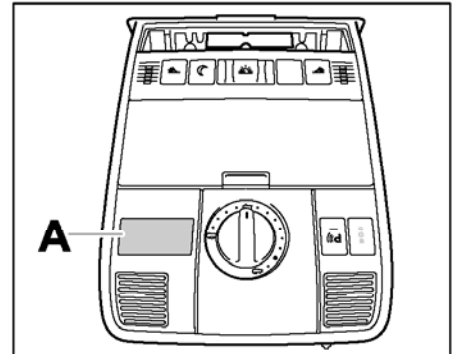


Figure 13

- 4.2 Clip trim for switches ⇒ *Figure 14-C-* into roof console.

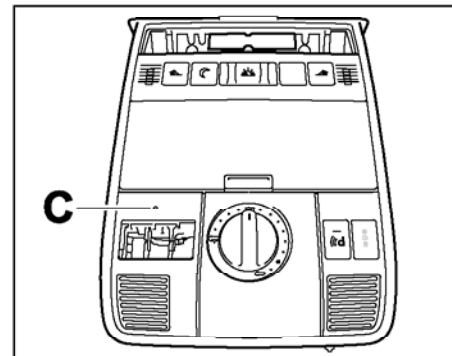


Figure 14

- 4.3 Clip switches ⇒ *Figure 15-A-* into trim. The guide ⇒ *Figure 15-arrow-* must be inserted into the groove ⇒ *Figure 15-B-* on the trim for switches.

- 5 Install electric components in roof console.

- 5.1 Install PCB.

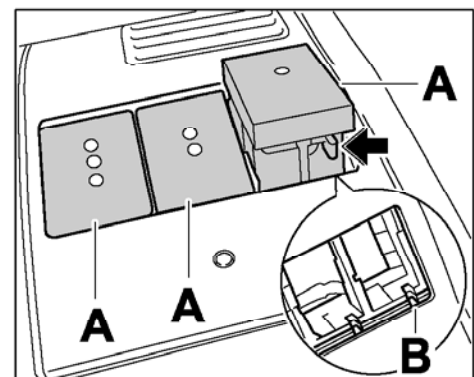


Figure 15



- 5.1.1 Connect connector (X6) on electric wire harness (retrofit kit) ⇒ *Figure 16-A-* and 3-pin connector (X4) ⇒ *Figure 16-B-* to the PCB.

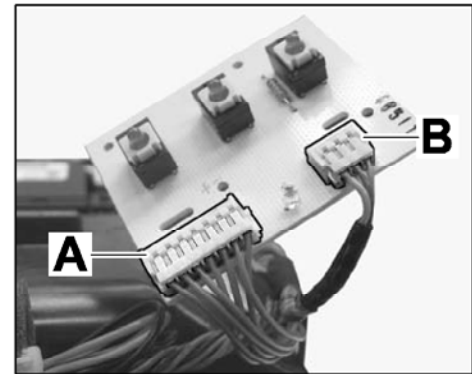


Figure 16

- 5.1.2 Position PCB on roof assembly and secure with four oval-head screws (N 909 151 01) ⇒ *Figure 17-A-*.

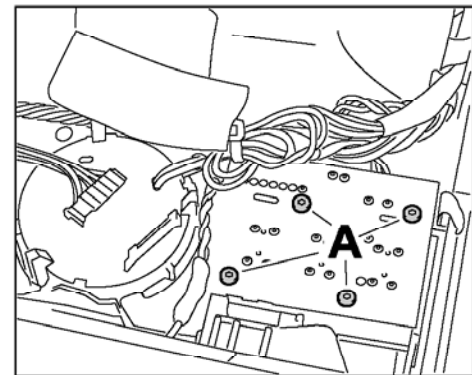


Figure 17

- 5.2 Install control unit for garage door opener.
  - 5.2.1 Position control unit on the PCB and screw in two fastening screws ⇒ *Figure 18-A-*.
  - 5.2.2 Connect connector (X7) on electric wire harness (retrofit kit) to the control unit ⇒ *Figure 18-B-* until it engages securely.

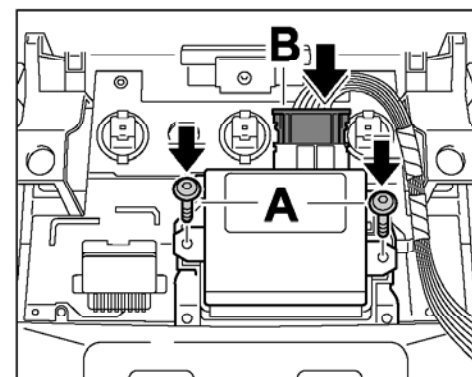


Figure 18

5.3 Route electric wire harness (retrofit kit) ⇒ *Figure 19-A*- under original wire harness ⇒ *Figure 19 -arrows-*.

6 Concluding work

6.1 Install roof console. ⇒ *Workshop Manual '601219 Removing and installing switch for sliding roof-section on "Installing"*

6.2 Connect the battery. ⇒ *Workshop Manual '90 Work instructions after disconnecting the battery'*

6.3 Connect battery charger. ⇒ *Workshop Manual '90 Battery trickle charge'*

6.4 Read out the fault memory of all systems, correct any existing faults, and erase the fault memory.

6.5 Disconnect battery charger.

7 Assign the garage door opener signal to one key. ⇒ *Workshop Manual '967919 Removing and installing control unit for garage door opener - section on "Assigning garage door opener signals to keys"*

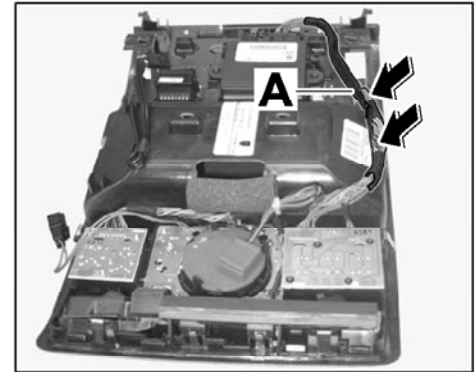


Figure 19

Working Time: 96 79 23 00: Installing control unit for garage door opener  
Includes: Connecting and disconnecting battery, routing electric wire harness, fitting PCB and buttons with symbols, assigning garage door opener signal to one key  
Without: Performing country coding

Labor time: **120 TU**

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