

John Cooper Works Tuning.

Installation instructions.



Retrofit John Cooper Works sound kit

MINI Cooper (R 50)
MINI Cooper Convertible (R 52)

Retrofit kit No.: **11 12 0 395 823**
 11 12 0 395 824

Installation time

The installation time of approx. 1 hour can vary depending on the condition and equipment of the vehicle.

Important information

These installation instructions are intended for use in the MINI dealership network and by authorised BMW service centres.

The target group of these installation instructions are technical personnel trained on MINI vehicles with corresponding technical know-how.

All work is to be carried out with the aid of currently valid MINI repair instructions, schematic circuit diagrams, maintenance manuals and working instructions in rational order with the specified tools (special tools) while paying particular attention to valid safety regulations.

Should you encounter problems during the installation procedure or operation, after briefly performing troubleshooting (about half an hour) contact one of the following in order to avoid unnecessary work and costs:

- 1. Either your national subsidiary or your regional office or**
- 2. the Support through the Aftersales Assistance Portal (ASAP) using the optional "Technical Support" application.**

Please quote the vehicle identification number as well as the part number of the installed retrofit kit and a detailed description of the problem.

Do not archive the printout of these Installation Instructions as daily updates are conducted through ASAP!

Refer to ASAP for explanations of the pictographs.

All illustrations show LHD vehicles. Carry out the same procedure analogously on RHD vehicles.

All illustrations show vehicles with manual transmission from 07/04. Carry out the same procedure analogously on vehicles with manual transmission before 07/04 or automatic transmission.

Pictographs:

 identifies information that draws attention to specific requirements.

◀ identifies the end of an information or warning text.

Subject to technical modifications.

Installation information

The engine control unit is only programmed and encoded on vehicles with manual transmission.



The service and maintenance intervals are the same as for the corresponding standard production vehicles.

If the John Cooper Works air-filter element has to be replaced during maintenance or a vehicle inspection, a John Cooper Works air-filter element must be installed in its place. ◀

Required special tools

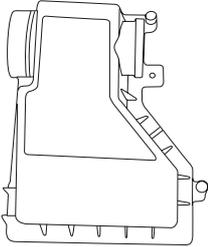
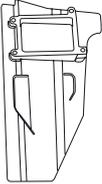
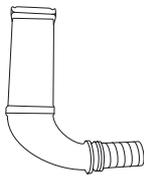
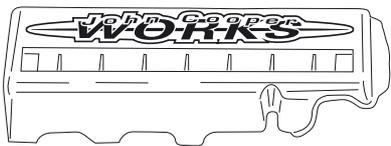
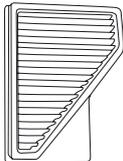
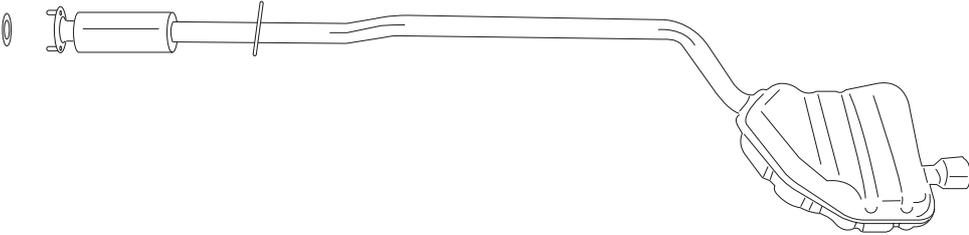
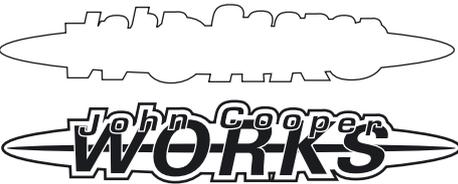
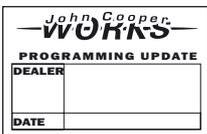
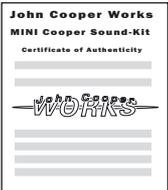
None

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1. Parts overview

 The illustration shows the parts set for vehicles with manual transmission from 07/04. The parts set is valid analogously for vehicles with manual transmission before 07/04 and for vehicles with automatic transmission. ◀

<p>A</p>  <p>1x</p>	<p>B</p>  <p>1x</p>	<p>C</p>  <p>1x</p>	<p>D</p>  <p>1x</p>
<p>E</p>  <p>1x</p>		<p>F</p>  <p>1x</p>	
<p>G</p>  <p>1x</p>			
<p>H</p>  <p>4x</p>	<p>I</p>  <p>1x</p>	<p>J</p>  <p>1x</p>	
<p>K</p>  <p>1x</p>	<p>L</p>  <p>1x</p>		<p>M</p>  <p>1x</p>
<p>N</p>  <p>2x</p>	<p>050 0783 V</p>		

1. Parts overview

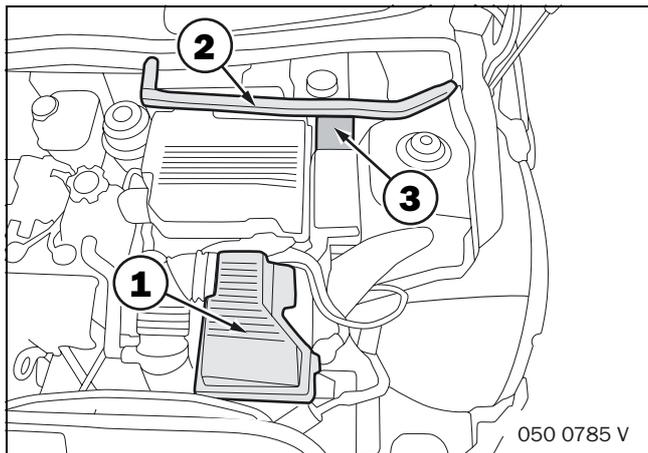
Key

- A Intake noise damper cover (AGD)
- B Bulkhead
- C Sound pipe
- D Sound pipe filter element
- E John Cooper Works fuel rail cover
- F John Cooper Works air-filter element
- G John Cooper Works exhaust system with gasket
- H Screw (15 mm)
- I John Cooper Works emblem for tailgate
- J Workshop certificate (only for Germany)
- K Sticker for engine control unit
- L John Cooper Works emblem for valve cover
- M John Cooper Works "Certificate of Authenticity"
- N Screw (36 mm)

2. Preparatory work

	TIS No.
Perform quick test	--
Disconnect negative terminal of battery	12 00 ...
Remove the following components first	
Air-filter element	13 72 001
Exhaust system, complete	18 12 030
Control unit (DME)	12 14 550

3. Installing John Cooper Works sound kit

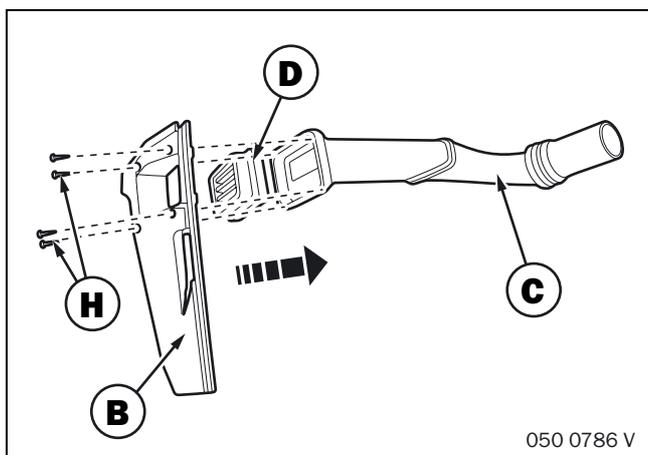


- ▶ Enter the number of the John Cooper Works air-filter element **F** in the workshop certificate (section 8, page 15). ◀

The intake noise damper cover (1), the gasket (2) and the bulkhead (3) must be removed first.

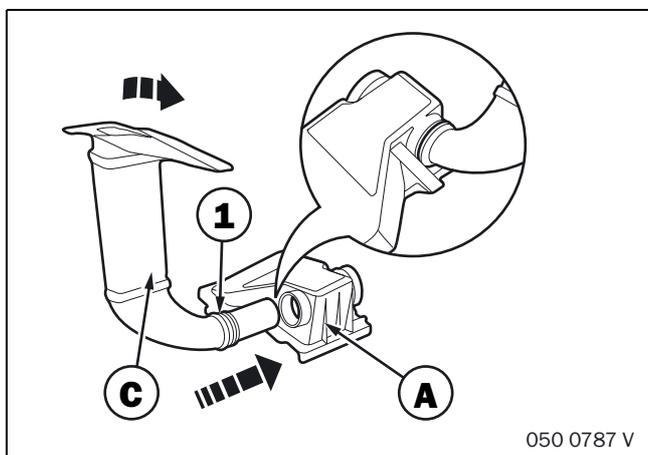
- ▶ If there is a cable bushing in the removed bulkhead (3), this must be recreated in the same position in bulkhead **B** before it is installed.

If necessary, secure the removed bulkhead (3) with a screw. This is not necessary when fitting the new bulkhead **B**. ◀



Insert the sound pipe filter element **D** in bulkhead **B**.

Screw bulkhead **B** onto sound pipe **C** with screws **H**.

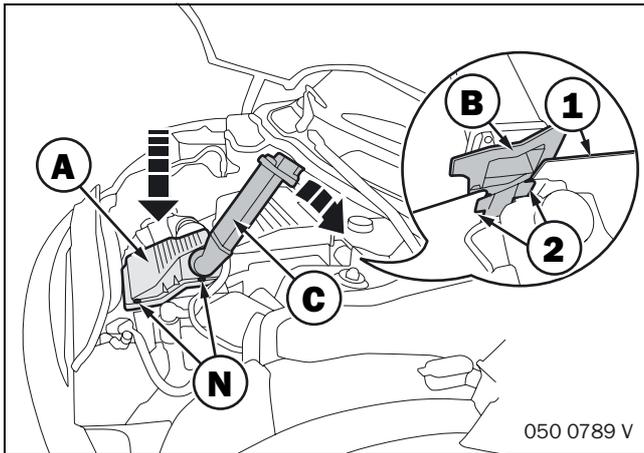


Plug sound pipe **C** into intake noise damper cover **A** to the stop.

- ▶ Make sure that gasket (1) is correctly seated. ◀

Turn sound pipe **C** through approx. 45° in the direction of the arrow to lock.

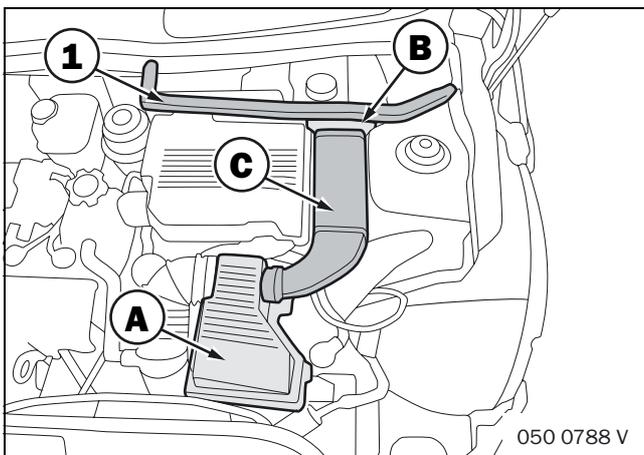
3. Installing John Cooper Works sound kit



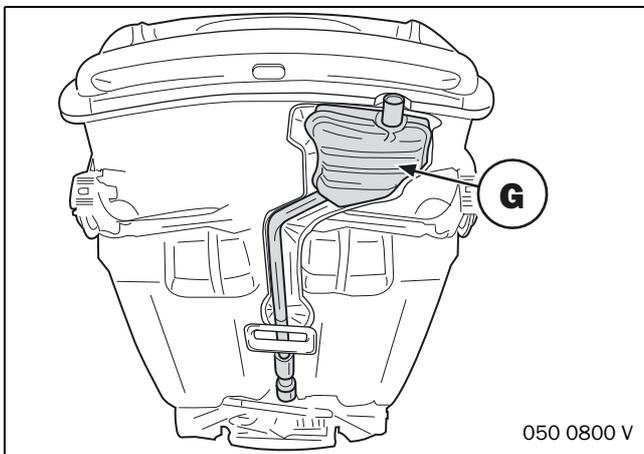
Install John Cooper Works air-filter element **F** and intake noise damper cover **A** with screws **N** as described in TIS No. 13 72 001.

Turn sound pipe **C** down and plug bulkhead **B** onto partition wall (1).

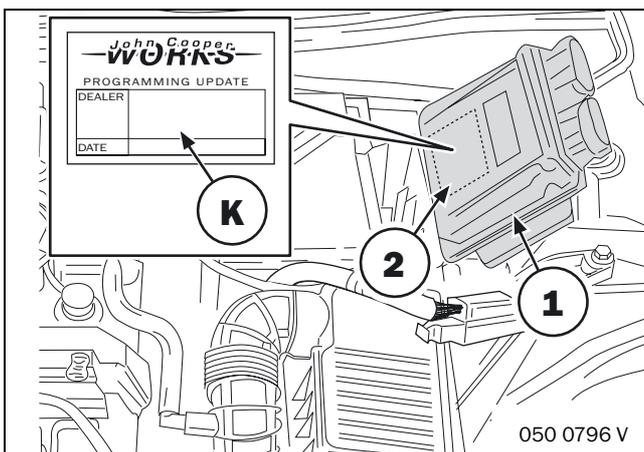
 Make sure that the tabs (2) on bulkhead **B** are correctly guided. ◀



After installing intake noise damper cover **A**, sound pipe **C** and bulkhead **B**, install gasket (1).



Install the John Cooper Works exhaust system with gasket **G** as described in TIS No. 18 12 030.



Enter the dealer's name, date and software status before affixing sticker **K** to the engine control unit (1). Use benzene to clean the adhesion surface (2).

 **Only for vehicles with manual transmission:** Make a note of the 7-digit control unit number (e.g. 7 545 789) as this will be needed in the following operation. ◀

Attach sticker **K** and install engine control unit (1).

3. Installing John Cooper Works sound kit

Programming and encoding engine control unit (only for vehicles with manual transmission)

 A GT-1 or a Software Service Station (SSS) is required for programming the engine control unit (DME). The John Cooper Works data is on the CD from version 43.1. Make sure that the battery and a battery charger are connected and there is a hard-wire connection between the radio head and tester.

Prior to programming, carry out a quick test and make sure there are no faults in the DME. ◀

Procedure:

1. As the tester is already connected, you can directly select "Encoding/Programming".
2. Select option "5. DME Programming" in the "Encoding/Programming" menu.
3. Select "3. DME Programming".
4. Select "2. Replace Control Unit".
5. Select "1. Determine Control Unit".
6. The question as to whether the original DME is still installed in the vehicle now appears. Answer this question with "NO".
7. Enter the DME "control unit number" noted in the previous operation using the tester's guided user interface.
8. Enter the complete vehicle identification number (17 characters from the DME identification page).
9. Enter the relevant construction group number (programmed control module number from the table below) for the John Cooper Works sound kit.

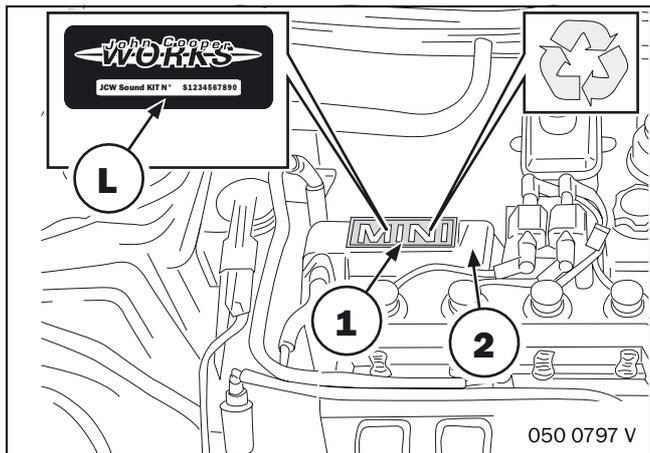
DME software					
Date of production		Model	Version	Control unit number	Construction group number
Up to 07/2004	Before technical update	R50	EU	7 527 610	7 547 858
			NAS/SAE	7 527 610	7 547 860
			Jap	7 527 610	7 547 862
From 07/2004	After technical update	R50/R52	EU	7 542 310	7 547 872
				7 545 789	7 550 272
				7 553 735	7 557 528
				7 557 395	7 562 924
			NAS/SAE	7 542 310	7 547 874
				7 553 735	7 557 530
				7 557 395	7 562 926
			Jap	7 542 310	7 547 876
				7 553 735	7 557 532
				7 557 395	7 562 928

10. Ignore the list of alternative numbers. The definition stage is now completed and all necessary data have been saved in the tester. Now press the arrow keys to exit this section.
11. Select "2. Program Basic Control Unit".
12. Enter the last 7 characters (2 letters, 5 numbers) of the vehicle identification number in order to identify the correct data.

3. Installing John Cooper Works sound kit

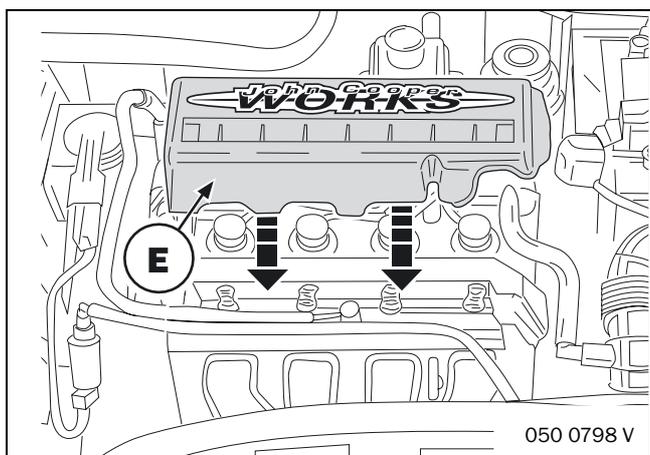
13. The message indicating that programming may take 4 – 12 minutes now appears.
Press arrow keys to continue.
 14. Enter the current kilometre reading of the car.
 15. Start the automatic programming procedure.
 16. After programming, the tester will automatically set the DME to the electronic vehicle immobilizer (EWS).
-  If the system informs you at this point that the EWS control unit requires encoding, proceed as described in the following.
- A. Turn terminal 15 to OFF and disconnect the battery for 3 minutes.
 - B. Reconnect the battery and turn terminal 15 to ON. ◀
17. Select ZCS/FA encoding.
 18. Select "Initial encoding" followed by "Motronic" and carry out renewed encoding of the Motronic (DME).
In this way, the systems (e.g. air conditioning) installed in the vehicle are identified so that they can be controlled via the DME.
 19. After the prompt to do so, turn off the ignition and wait until the specified time interval has elapsed.
Restart the car.
 20. Now perform a quick test and clear the fault codes logged as the result of the programming procedure.
 21. Affix a new label on the DME to identify the John Cooper Works update.
 22. Finally check whether all systems such as the air conditioning and the cruise control (if fitted) are fully operational.

4. Attaching John Cooper Works emblems, stickers and fuel rail cover

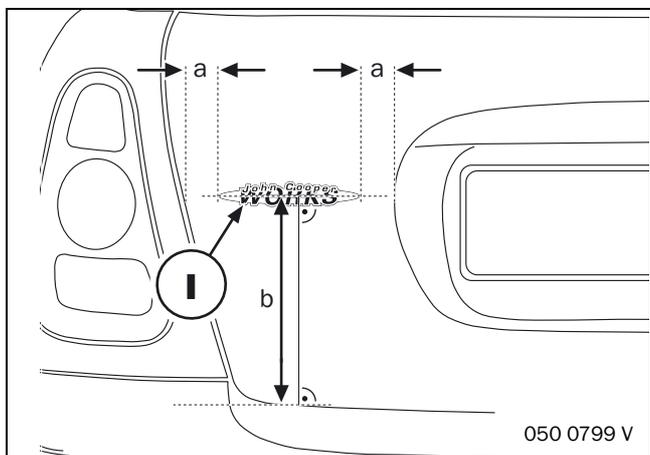


Remove original MINI emblem (1) from valve cover (2) and clean adhesion area with benzene.

Attach John Cooper Works emblem **L** to valve cover.



The John Cooper Works injection pipe cover **E** is to be fitted in place of the standard cover.



Attach the double-sided adhesive tape to the back of the John Cooper Works emblem **I**. Use benzene to clean the adhesion surface.

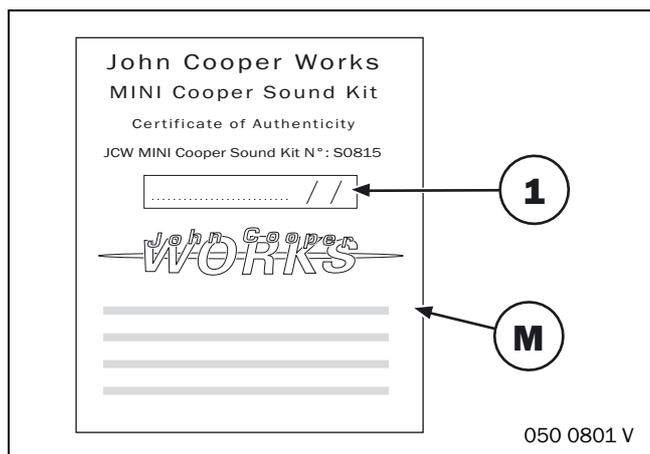
Determine the position of the John Cooper Works emblem between the tailgate and the licence plate mounting.

If the model name "Cooper" is fitted, the level of the John Cooper Works emblem should be aligned accordingly.

a = 50 mm

b = 210 mm

5. John Cooper Works "Certificate of Authenticity"



Enter the last seven digits of the vehicle identification number, the kilometre reading (mileage) and date in the box marked with (1).

 The certificate **M** should be presented to the customer. ◀

6. Finishing off

- Reassemble vehicle in reverse order of removal.
- Connect up the battery (for vehicles with automatic transmission)
- Perform quick test
- Perform function test