

John Cooper Works Tuning.

Installation instructions.



Retrofitting 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 is approx. 1 hours and may differ depending on the vehicle's equipment.

The vehicle must be updated to the latest I-level status by flashing before installing the retrofit. Differing programming times may be necessary depending on the production age of the vehicle and on work previously performed on the vehicle.

The installation time given does not include time needed for programming/encoding.

The total costs for the programming time should be taken into account when calculating retrofitting costs (reimbursement through warranty is not permissible).

Important information

These installation instructions are designed primarily for use within the MINI dealer organization and by authorized BMW service companies.

In any event, the target group for these installation instructions is specialist personnel trained on MINI cars who have the technical knowledge necessary to perform such work.

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

If installation and operating problems occur, you can save unnecessary effort and costs by already contacting the following after brief attempt at troubleshooting (approx. 0.5 hrs.):

- 1. Either the subsidiary in your country, or**
- 2. Technical support via the Aftersales Assistance Portal (ASAP), using the optional application "Technical parts support".**

Enter the vehicle identification number (VIN), the part number of the installed retrofit kit, and a precise description of the problem.

Do not archive the hard copy of these installation instructions since daily updates are made by ASAP!

For pictograph explanations, refer to ASAP.

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

All illustrations show vehicle with a manual transmission from 07/04. On vehicles with a manual transmission prior to 07/04 or an automatic transmission, proceed in the same manner.

Pictographs:



Indicates information that draws attention to specific requirements.

◀ Indicates the end of an information or warning text.

Subject to technical modifications!

Installation information

The programming and coding of the engine control unit is only carried out on vehicles with a manual transmission.



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

Should the John Cooper Works air-cleaner element be replaced during maintenance or inspection, then a John Cooper Works air-cleaner element must be installed again. ▶


Required special tools

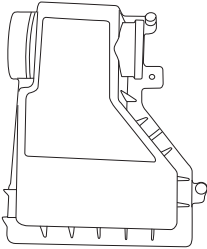
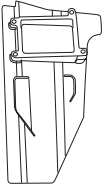
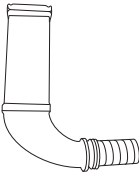


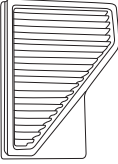
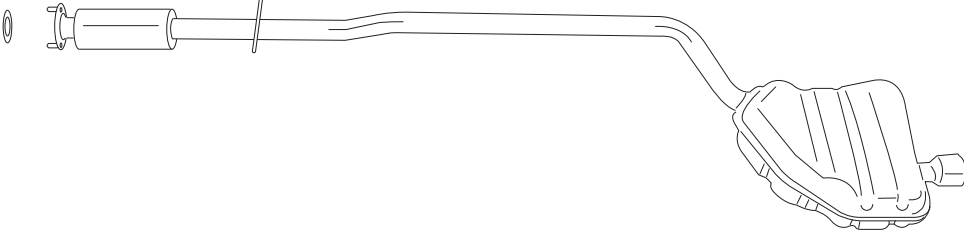



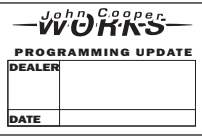



None

Contents

Chapter	Page
1. Parts Overview	4
2. Preparatory Work	6
3. Installing John Cooper Works Sound Kit	7
4. Attaching John Cooper Works Emblems, Stickers and Injection Pipe Cover	11
5. John Cooper Works "Certificate of Authenticity"	12
6. Concluding Operations.	13

1. Parts overview

 The parts kit for vehicles with manual transmission from 07/04 is shown here. The parts kit applies analogously to vehicles with a manual transmission before 07/04 and vehicles with an 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

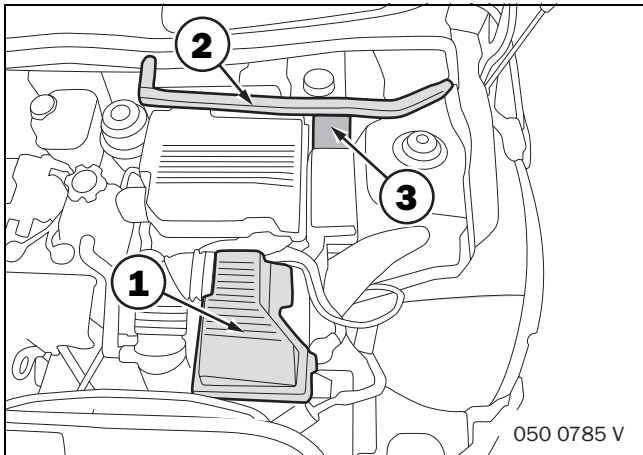
Key

- A Intake muffler cover
- B Partition
- C Sound line
- D Filter insert for sound line
- E John Cooper Works injection pipe cover
- F John Cooper Works air-cleaner element
- G John Cooper Works exhaust system with gasket
- H Screw (15 mm)
- I John Cooper Works emblem for tailgate
- J Workshop certificate (for Germany only)
- 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 in advance:	
Air-cleaner element	13 72 001
Complete exhaust system	18 12 030
Control module (DME)	12 14 550

3. Installing John Cooper Works Sound Kit

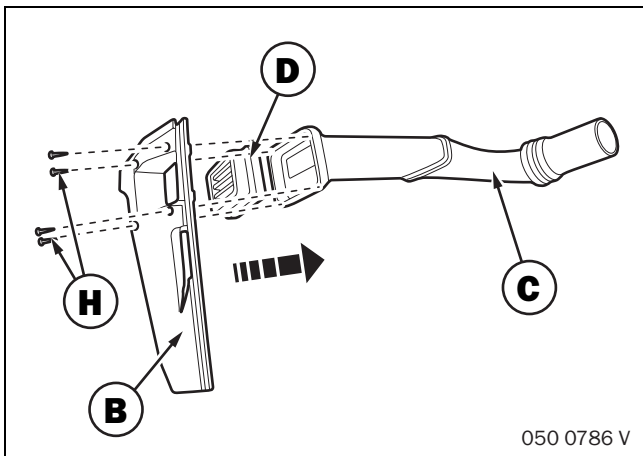


- ▶ Enter the number of the John Cooper Works air-cleaner element **F** in the workshop certificate, Chapter 8, Page 15. ◀

The intake muffler cover (1), the seal (2) and the partition (3) must be removed beforehand.

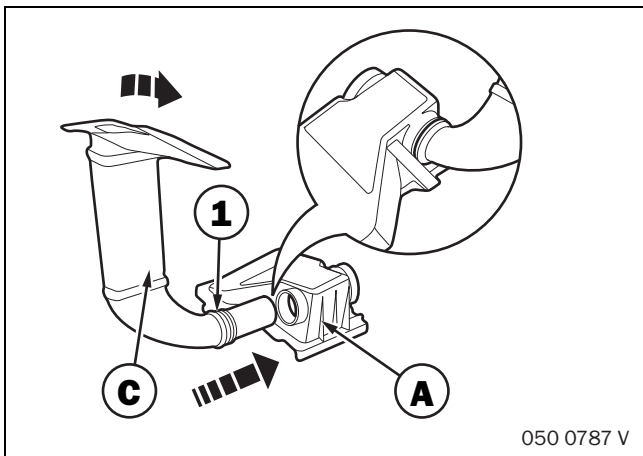
- ▶ If a cable gland is located in the removed partition (3), then this must be produced in the partition **B** in the same position prior to installation.

The removed partition (3) may be secured with a screw. This is eliminated when installing the new partition **B**. ◀



Install the filter insert of the sound line **D** in the partition **B**.

Screw the partition **B** onto the sound line **C** with the screws **H**.

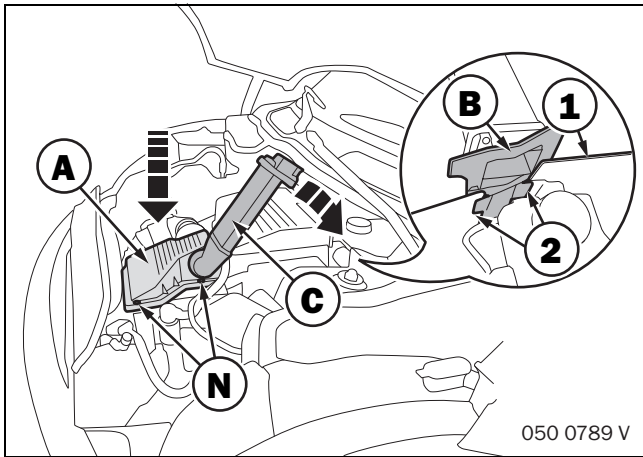


Insert the sound line **C** as far as possible into the intake muffler cover **A**.

- ▶ Ensure proper seating of the seal (1). ◀


Turn the sound line **C** approx. 45° in the direction of the arrow until it engages.

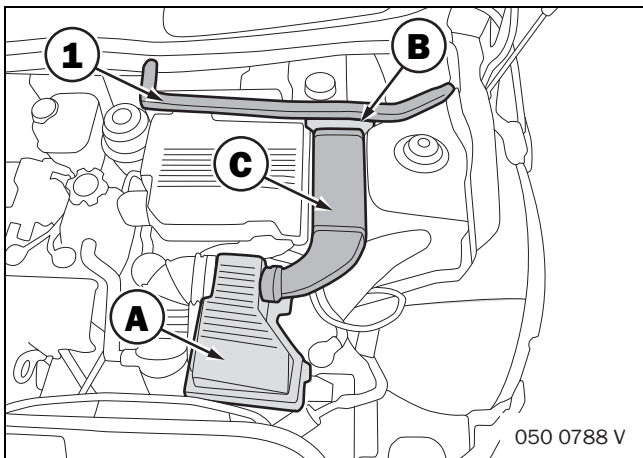
3. Installing John Cooper Works Sound Kit



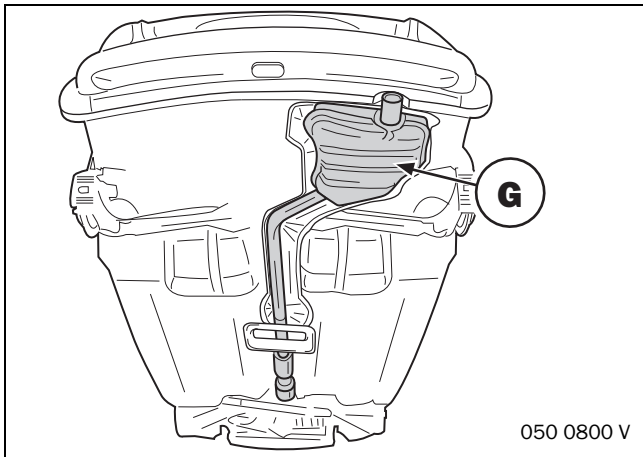
Install the John Cooper Works air-cleaner element **F** and intake muffler cover **A** with screws **N** according to TIS No. 13 72 001.

Turn the sound line **C** downward and insert the partition **B** on the partition wall (1).

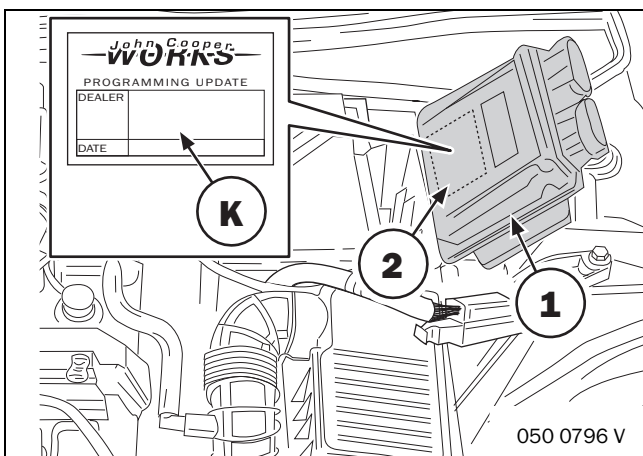
 Make sure the lugs (2) of the partition **B** are guided in properly. ◀



After installing the intake muffler cover **A**, sound line **C** and partition **B**, install the seal (1).



Install the John Cooper Works exhaust system with gasket **G** according to TIS No. 18 12 030.



Enter the dealer's name, date and software status before affixing the sticker **K** on the engine control unit (1).

Use benzene to clean the adhesion surface (2).


 **Only for vehicles with a manual transmission:**

Note the 7-digit control module number (e.g. 7 545 789), as it is required in the following operation. ◀

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

3. Installing John Cooper Works Sound Kit

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

 To program the engine control unit (DME), a GT-1 or a Software Service Station SSS is required. The John Cooper Works data are contained on the CDs from Version 43.1. Make sure that the battery is connected and a battery charger is connected and that there is a permanently-wired connection between the radio head and the tester.

Prior to programming, carry out a quick test and make sure there are no defects 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 "control module number" of the DME noted in the previous operation via the operator-guided interface of the tester.
8. Enter the complete vehicle identification number (17 characters from the DME identification page).
9. Enter the matching assembly number (programmed control module number from the table below) for the John Cooper Works Sound Kit.

Software for DME					
Production date		Type	Model	Control module number	Assembly number
up to 07/2004	before TÜ	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 TÜ	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 digits) of the vehicle identification number in order to identify the correct data.

3. Installing John Cooper Works Sound Kit

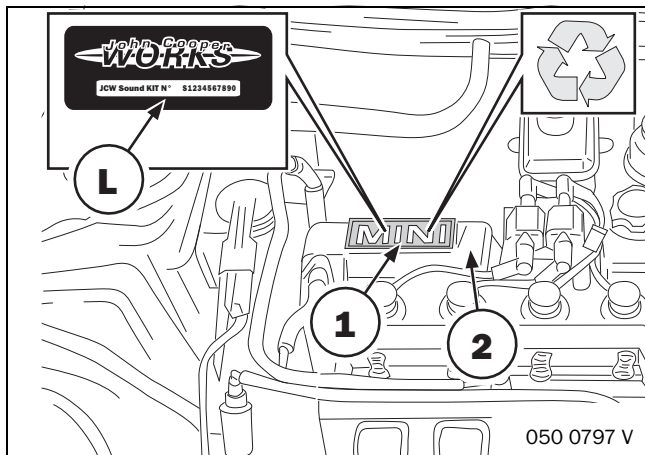
13. The message indicating that programming may take 4 – 12 minutes now appears. Press arrow keys to continue.
14. Enter the current mileage reading of the car.
15. Start the automatic programming procedure.
16. After programming, the tester will automatically set the DME to the electronic vehicle immobilizer (EWS).



If the system informs you at this point that the EWS control unit requires encoding, proceed as described in the following.

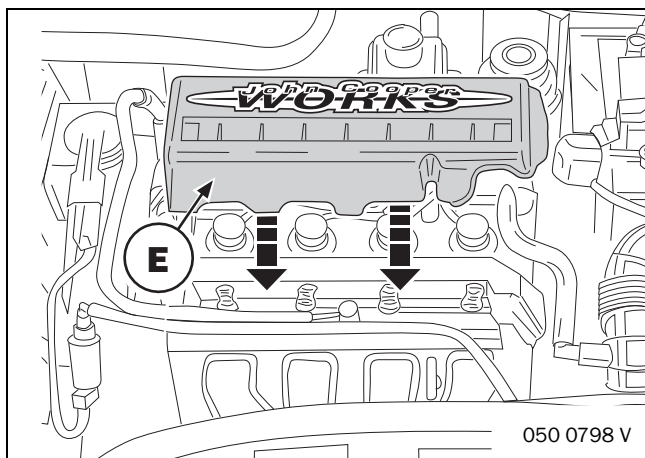
- A. Turn terminal 15 to OFF and disconnect the battery for 3 minutes.
 - B. Reconnect the battery and turn terminal 15 to ON. ◀
17. Select ZCS/FA encoding.
 18. Select "New Encoding" followed by "Motronic" and carry out encoding of the Motronic (DME) again. In this way, the systems (e.g. air conditioning) installed in the vehicle are identified so that they can be controlled via the DME.
 19. After being prompted 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, if installed, the cruise control (Tempomat) are fully operational.

4. Attaching John Cooper Works Emblems, Stickers and Injection Pipe Cover

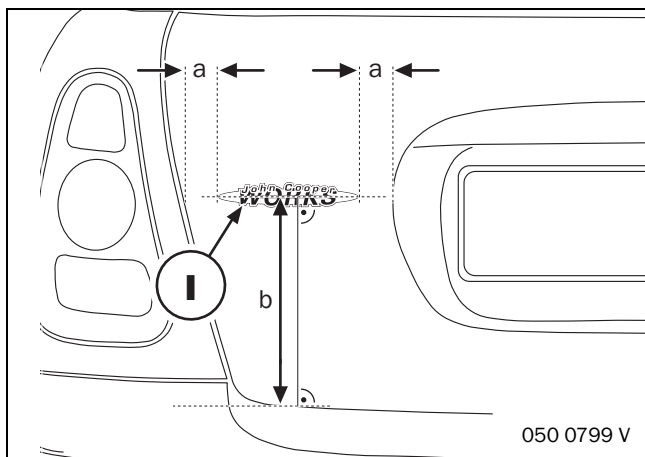


Remove original MINI emblem (1) from valve cover (2) and clean adhesion area with benzene.

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



The John Cooper Works injection pipe cover **E** must be mounted instead of the standard cover.



Adhere 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 license 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. Workshop Certificate

WorKs

Werkstatt-Bescheinigung

Hiermit wird bestätigt, dass an dem nachfolgend genannten Fahrzeug der John Cooper Works Turin (E11 12 D 502 473) komplett verbaut wurde. Ein Ersatzteil wurden folgende Komponenten eingesetzt:

1. Sauggerät mit Selbstreinigungs-JCW
2. Kompressor (1 83 0 50 546)
3. Zündschlüssel JCW (504205)
4. Einschaltblende JCW (505 187475)
5. Zündschlüssel JCW (505 187475)

Fahrzeugtyp: **BMW Cooper S (E13)**

Fahrzeugkennzeichen:

Fahrzeughalter (Name u. Anschrift):

Ort, Datum:

Unterschrift der verantwortlichen Person:

Kfz-Betrieb (Firmenstempel)

050 0794 V

▶ The part number of the John Cooper Works air-cleaner element **F** must be entered prior to installation. ◀

Enter the last seven digits of the vehicle identification number, the name and address of the vehicle owner in the box marked (1).

Enter the place, date and signature of the installer, company name and stamp of the specialist workshop in the box marked (2).

▶ The workshop certificate **J** should be presented together with the certificate of the registration authority. ◀

6. Concluding operations

- Reassembly vehicle in reverse order
- Connect battery (for vehicles with automatic transmission)
- Perform quick test
- Perform operating test