### part number: 13343694

<b>(D)</b>	Änderungen bezüglich Konstruktion, Ausstattung, Farbe sowie Irrtum vorbehalten. Angaben und Abbildungen unverbindlich.	<b>D</b>	Einbauanleitung / nur Händlereinbau
<b>(B)</b>	Subject to change in terms of construction, equipment and colour, and may contain errors.  The information and illustrations are non-binding.	(B)	Installation instructions / Dealer installation only
F	Sous réserve de modifications de la construction, de équipement, de la couleur et sous réserve d'erreurs. Les indications et les illustrations sont sans engagement.	Ē	Consignes de montage / Montage uniquement par le concessionnaire
ML)	Wijzigingen met betrekking tot constructie, uitvoering en kleur evenals vergissingen voorbehouden. Gegevens en afbeeldingen niet bindend.	(NL)	Montagehandleiding/Montage alleen door dealers
(DK)	Ændringer med hensyn til konstruktion, udstyr, farver samt fejl forbeholdes. Oplysninger og illustrationer er uforpligtende.	ØK)	Montagevejledning / Montage kun hos forhandleren
N	Endringer angående konstruksjon, utstyr, farge og feiltagelse forbeholdes. Opplysninger og illustrasjoner uforbindtlig.	N	Monteringsinstruksjon / Montasje kun hos forhandleren
<u>\$</u>	Med reservation för ändringar vad det gäller konstruktion, utrustning, färg samt för misstag. Uppgifterna och bilderna är inte bindande.	<u>S</u>	Installationsanvisning / Får endast monteras av återförsäljaren
(FIN)	Pidätämme oikeuden rakennetta, varustusta, väriä koskeviin sekä erehdyksestä johtuviin muutoksiin. Tiedot ja kuvat eivät ole sitovia.	FIN	Asennusohje/Asennus vain myyntiliikkeen toimesta
①	Con riserva di modifiche relative a progettazione, dotazione, colore ed errori. Le indicazioni e figure sono fornite sensa impegno.	①	Istruzioni per il montaggio / Installazione solo presso la concessionaria
E	Reservadas las modificaciones respecto a diseño, equipamiento, color, así como error. Indicaciones y figuras sin compromiso.	Œ	Instrucciones de montaje / Instalación exclusiva por el distribuidor
•	Reservamos o direito de alterações relativamente ao desenho, equipamento, cor, bem como de erro. Os dados e as gravuras não implicam compromisso da nossa parte.	P	Instruções de montagem / Montagem só no concessionário
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PL	Zastrzega się prawo do zmian dot, konstrukcji, wykończenia, kolorystyki oraz pomytek. Dane i ilustracje niewiążące.	PL)	Instrukcja montażu/Montaż tylko u dealera
(TR)	Tasarım, donanım ve renk bakımından değişiklik yapma hakkı ve hata ve eksiklik mahfuzdur. Veriler ve resimler bağlayıcı değildir.	TR)	Montaj talimati / Sadece satici tarafında monte edilir
H	A szerkezet, a kivitel és a szín változtatása, valamint a változások joga fenntartva. Az adatok és az ábrák nem kötelelző érvényűek.	H	Beépítési útmutató/Csak a kereskedő építheti be
HR	Pravo promjena u svezi konstrukcije, opreme, boje kao i zabune oridžavamo. Podaci i ilustracije su neobavezne.	HR	Upute o ugradnji / Ugradnja samo od strane trgovca
BUD	Запазени права по отношение на конструкцията, обэавеждането, џвета и грешки. Данните и изображенията не са обвързващи.	(801)	Инструкция за монтаж/Монтажът може да се извърши само от търговеца
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RUS	Права на внесение иэменений относительно конструкции, оснащения, окраски, а также на ошибки сохраняются. Данные и иллюстрации имеют примерный характер.	RUS	Инструкция по монтажу и установке/Устанавливать только у дилера
(I)	Pasiliekama konstrukcijos, įrangos bei reikmenų, spalvos pakeitmų ir klaidų teisė. Duomenys ir ilistracijos neįpareigojantys.	(I)	Montavimo informacija / Montuoja tik prekybininkas
(IV)	Tiek paturētas tiesības uz konstrukcijas, iekārtu, krāsu izmaiņām, kā arī kjūdīšanos. Dati un attēli bez saistībām.	(LV)	lemontēšanas pamācība/Tikai pārdevēja iebūve
EST	Konstruktsiooni, varustuse ja vœrvi osas muudatused ning eksimine lubatud. Andmed ja joonised on mittesiduvad.	(EST)	Paigaldusjuhend / Paigaldab ainult müüja
(SLO)	Zadržana pravica do sprememb glede konstrukcije, opreme, barve ter pomote. Podatki in slike so neobvezne.	(SLO)	Navodilo za vgradnjo / Vgradnja le od trgovca
SK	Zmeny, ktoré sa týkajú konštrukcie, vybavenia, farby, ako aj omyly sú vyhradené. Údaje a zobrazenia sú nezáväzné.	(SK)	Montážny návod / Montá iba obchodníkom
1	構造、装備、色に関しての変更、または間違いがある可能性があります。 記載事項および図に関して責任を負いません。	<u>(</u>	取り付け説明書 / 販売業者取り付けのみ
ROK	구조, 장치, 색채와 그의 오류점의 변경 보류함. 지시 사항과 사진들에 관해 책임을 지지 않음.	(ROK)	장치 지시사항 / 오직 전문상인이 장치
(HI)	อาจมีการเปลี่ยนแบ่ลงแก้ไขในแง่ของโครงสร้าง อุปกรณ์ และสี และอาจมีข้อผิดพลาดได้ ข้อมูลและภาพประกอบไม่ถือเป็นข้อมูกมัด	(HIA)	คู่มือการติดตั้ง / ติดตั้งโดยตัวแทนจำหน่ายเท่านั้น
(VR)	保留设计、配置、颜色以及错误的修改权。 给出的资料和插图均没有法律约束力。	(VR)	安装说明书 / 仅供销售商安装用
(VR)	保留股計、配置、類色以及錯誤的够改權。 給出的資料和插圖均沒有法律約束力。	(VR)	安裝說明書 / 僅供銷售商安裝用

# HYDRONÎC



Eberspächer



### → Check NEW UPDATES → www.ifz-berlin.de

### New vehicle-specific installation kit + heater

### Hydronic B5W S in the Opel Insignia (0G-A)

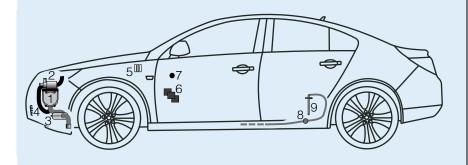
2.0 I cubic capacity / 4 cylinder in-line engine / 162 kW - 220 HP (turbo)

- with automatic air conditioning
- with fog lamps
- with manual gearbox or automatic gearbox
- with front-wheel or four-wheel drive

This installation recommendation is valid for the vehicle described above and is exempt from any liability claims whatsoever.

Depending on the version or modification status of the vehicle, differences can result between the vehicle and this installation recommendation.

The installer must check this before installation and, if necessary, take into account the differences compared to this installation recommendation.



- (1) 2 3 4 5 Hydronic B5W S
- Water pump
- Exhaust pipe with exhaust silencer
- Combustion air pipe
- Fuse holder

- Relay, stationary part R<sup>+</sup> and control box SVM 6
- Button
- 8 Metering pump
- Fuel tank extractor

#### Installation location

The Hydronic B5W S is installed crosswise with the bracket in the right-hand quarter bumper.

The exhaust connection faces downwards and the control box to the right.

#### Parts needed for installation:

- Vehicle-specific installation kit (1)
- Heater B5W S (2)

Installation time: approx. 8 h

#### Please note!

### Deliver the vehicle with an empty

J. Eberspächer GmbH & Co. KG Eberspächerstr. 24 D - 73730 Esslingen

Service Hotline 01805 - 26 26 26 Facsimile 01805 - 26 26 24

www.eberspaecher.com

#### **Contents**

		Page			Page
1	Introduction	4	5	Fuel Supply	14
2	Installation - Heater	6	6	Electrics	18
3	Exhaust and Combustion Air System	8	7	After Installation	24
4	Water Circuit	10	8	Parts Overview	28

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# 1 Introduction





## Important! Safety instructions for installation and repair!

Improper installation or repair of Eberspächer heaters can cause a fire or result in poisonous exhaust fumes entering the vehicle interior.

This can pose a serious risk to life and limb.

The heater may only be installed by authorised and trained persons according to the specifications in the technical documents and repaired using original spare parts. Installation and repairs by unauthorised and untrained persons, repairs using non-original spare parts and without the technical documents required for installation and repair are dangerous and therefore are not permitted.

### Please note!

Installation according to this installation recommendation may only be carried out in conjunction with the respective unit type-related technical description, installation instructions, operating instructions and maintenance instructions.

This document must be carefully read through before / during installation and followed throughout.

Particular attention is to be paid to the safety instructions and the general information.

The relevant rules of sound engineering practice and any information provided by the vehicle manufacturer are to be heeded during the installation.

Eberspächer does not accept any liability for defects and damage due to installation by unauthorised and untrained persons.

### **Accident prevention**

General accident prevention regulations / health and safety regulations and the corresponding workshop, company and operating safety instructions are to be observed.

#### Installation recommendation validity

The installation recommendation is valid for the vehicle with the engine and gearbox options listed in the following.

Engine and gearbox options				
Cubic capacity kW / HP Gearbox				
2.0 I (T)	162 / 220	6S / Aut. 4x4		

6S = 6-gear manual gearbox

Aut. 4x4 = automatic gearbox, 4-wheel drive

#### Please note!

The installation recommendation is not valid for right-hand drive vehicles.

Vehicle types, engine types and feature options not listed in this installation recommendation have not been tested. Installation according to this installation recommendation can still be possible.

# 1 Introduction



#### Parts required for installation

Quantity / Designation	Order No.	
(1) Vehicle-specific instal		
1 Vehicle-specific installa	tion kit *	1
	JE No.	24 8415 00 00 00
	GM No.	13343694
		I I
(2) Heater:		I I
1 Hydronic B5W S		I I
	JE No.	¦ 20 1918 99 02 00
	GM No.	13343693

#### Special tools required

- Torque wrench (5....50 Nm)
- Anti-corrosion agent
- Tool for undoing the tank fitting (KM J-45722)
- Step drill
- Crimping tool

#### **Tightening torques**

If no tightening torques are specified, tighten the screw connections (hexagon screw and hexagon nut) according to the following table.

Screwed connections	<b>Tightening torques</b>			
M6	10 Nm			
M8	20 Nm			
M10	45 Nm			
Other tightening torques:				
Wiper arms on linkage	35 Nm			
<ul> <li>Tank straps</li> </ul>	20 Nm			
<ul> <li>Cardan shaft on flange</li> </ul>	)			
differential	29 Nm			
<ul> <li>Exhaust system</li> </ul>	18 Nm			

#### Preparation on the vehicle

- Remove the shelf on the left
- Remove bottom instrument panel panelling
- Remove glove compartment
- Remove bottom right-hand instrument panel panelling
- Disconnect the battery
- Dismantle wiper pan with cover
- Dismantle air filter box with air intake pipe
- Dismantle the top engine panelling
- Remove the front bumper
- Dismantle the front right-hand wheel
- Remove right-hand, front wheelhouse panel
- Dismantle the bottom engine panelling
- Dismantle exhaust pipe
- Undo Cardan shaft and lower to the centre bearing
- Remove the tank
- Remove the air filter
- Depressurise the cooling system
- Drain coolant

#### Please note!

During disassembling the manufacturer guidance / instructions must be followed.

## 2 Installation - Heater

#### Prepare the installation position

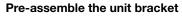
(see photo 1)

Make a drillhole  $\varnothing$  6.5 mm in the right-hand side member with the dimensions shown in the photo.

Make another drillhole  $\varnothing$  8.5 mm in the side member. Remove the vehicle's retaining screw M12 x 40 from the gusset plate of the right-hand side member.

#### Please note!

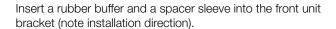
Deburr all holes made and treat with anti-corrosion agent.



(see photos 2 and 3)

Use two screws M6  $\times$  16 to fix the exhaust silencer holder to the unit bracket.

Insert three rubber buffers and a spacer sleeve (note installation direction) as shown in the photo.



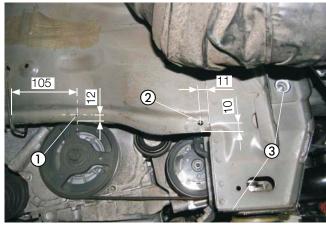


Photo 1

- ① Drillhole Ø 6.5 mm made
- 2 Drillhole Ø 8.5 mm made
- 3 2 x existing fixing points

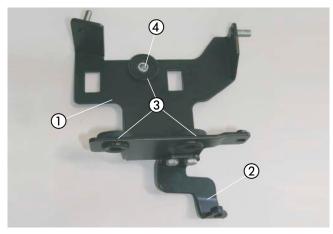


Photo 2

- ① Unit holder
- ② Holder, exhaust silencer
- 3 Rubber buffer inserted
- 4 Spacer sleeve inserted

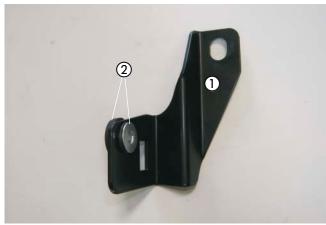


Photo 3

- Front heater bracket
- 2 Rubber buffer with spacer sleeve

## Installation - Heater



#### Preassemble heater and affix duplicate nameplate (see photos 4 and 5)

Remove the duplicate nameplate from the heater.

Insert the heater in the unit bracket and use the Torx screw M6 x 130, to screw a hexagon nut with collar M6 and the front unit bracket with 9 Nm.

Insert the water pump in the rubber holder and use one nut M6 and one body washer B6 to fix to the threaded bolt of the

Connect the short water hose to the discharge connection of the water pump and to the water intake connection of the

Deface the inapplicable dates to make them illegible.

Affix the duplicate nameplate to the B pillar on the driver's side as shown.



Photo 4

- Water pump installed
- ② Front heater bracket installed
- 3 Water hose connected



Photo 5

(1) Duplicate nameplate attached to the B-pillar on the driver's side



Use the new screw M12 x 45 to fix the front unit bracket to the right-hand side member with 100 Nm.

Position the preassembled heater on the side member, at the same time, feed the rear threaded bolt of the unit bracket into

Screw a screw M6 x 12 into the bottom fixing point.

the drillhole  $\emptyset$  8.5 mm made and bolt with a nut M8.

#### Please note!

Install heater (see photo 6)

The Torx screw M6 x 130 has to be inserted forwards from the wheel arch housing, facing the engine.



Photo 6

① Fix preassembled heater to the right-hand side member



## Exhaust and Combustion Air System



Install and connect exhaust silencer (see photos 7 to 9)

(666 p. 16166 ) 16 6)

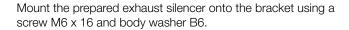
Cut the exhaust pipe to a length of 120 mm.

Shape the exhaust pipe as shown in the photo and connect to the inlet connection of the exhaust silencer.

Cut the exhaust pipe end to a length of 110 mm.

Shape the exhaust end pipe as shown and connect to the outlet connection of the exhaust silencer.

The arrow for the direction of flow through the exhaust silencer points to the right.



Use a pipe clamp to connect the exhaust pipe to the outlet connection of the heater.



When laying the exhaust pipes, ensure they are at a sufficient distance from adjacent body components.

Use two cable ties to secure the ABS line to the air conditioning line as shown in the photo.

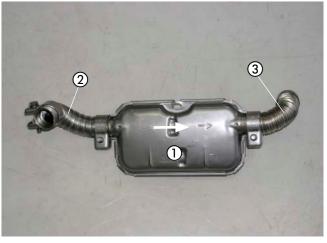


Photo 7

- Exhaust silencer
- ② Exhaust pipe mounted
- 3 Exhaust end pipe mounted



Photo 8

(1) Exhaust silencer installed



Photo 9

 ABS line fixed to the air conditioning line with two cable ties



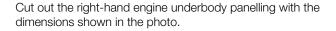


Make drillhole for exhaust end pipe and cut out righthand engine underbody panelling

(see photos 10 and 11)

Mark the drillhole for the exhaust end pipe on the right-hand side of the engine underbody panelling and drill with  $\varnothing$  50 mm.

Remove the insulation mat in the area of the right-hand underbody panelling.



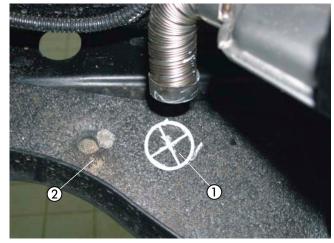


Photo 10

- ① Drillhole for exhaust end pipe made
- ② Remove insulation mat

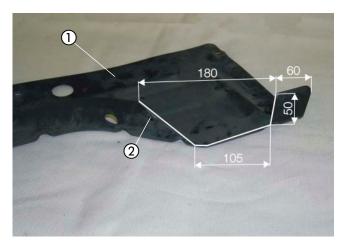


Photo 11

- ① Cut out right-hand engine underbody panelling
- 2 Existing drillhole Ø 7 mm

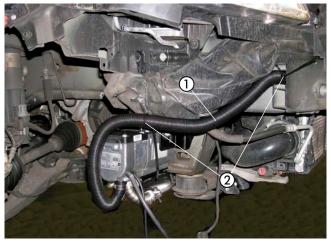


Photo 12

- 1) Combustion air pipe installed
- ② Cable ties

#### Install combustion air pipe

(see photo 12)

Use a hose clip  $\emptyset$  16 - 25 mm to connect the combustion air pipe to the heater and lay upwards in the protected area of the front cross member.

Use cable ties to fix the combustion air pipe to the intake air pipe.

#### Please note!

Lay the combustion air pipe so that only clean, dry combustion air is drawn in through the heater.





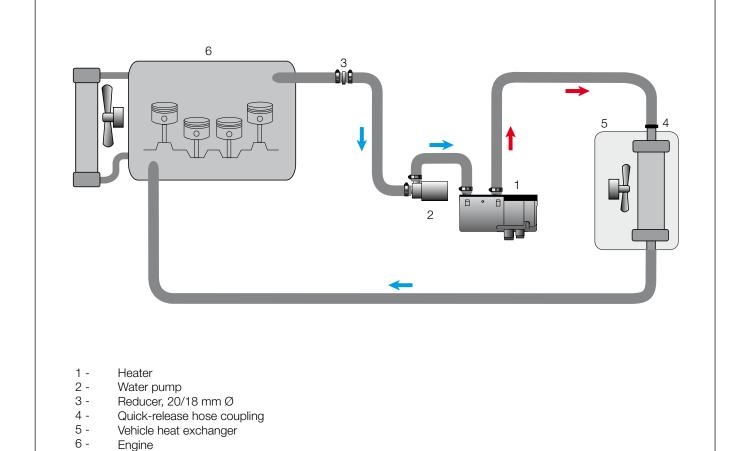


Diagram 1

### Cut water flow hose

(see photo 13)

Cut the water flow hose from the engine to the heat exchanger (the top water hose at the heat exchanger) according to the dimensions shown in the photo.

The piece of hose to the heat exchanger is not required.



Photo 13

① Cutting point in the water flow hose

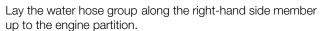
#### Lay and connect water hoses

(see photos 14 to 22 and diagram 1)

Connect the water hose from the engine to the water pump to the intake connection of the water pump.

Connect the water hose from the heater to the heat exchanger to the water outlet connection of the heater.

Lay the water hose group above the right-hand engine bearer bearing in the bend to the right-hand side member.



Use the rubberised clip  $\varnothing$  28 mm and a screw M6 x 16 to fix the water hose from the engine to the water pump at the hole  $\varnothing$  6.5 mm made.

To ensure adequate spacing, latch the water hose and the brake line on the two sides of the plastic holder.

### Please note!

When installing the water hoses, ensure they are at a sufficient distance from moving vehicle parts.

Make a further drillhole  $\varnothing$  6.5 mm in right-hand side member according to the dimensioning shown in the photo. Use the rubberised clip  $\varnothing$  28 mm and a screw M6 x 16 to fix the water hose from the heater to the heat exchanger at the hole  $\varnothing$  6.5 mm made.

#### for vehicles with OPC

To make the drillhole  $\varnothing$  6.5 mm, remove the plug-in connection for the sport suspension from the holder.

#### Please note!

Deburr all finished holes and treat with anti-corrosion agent.



Photo 14

- (1) Water hose from the engine to the water pump
- 2) Water hose from the heater to the heat exchanger

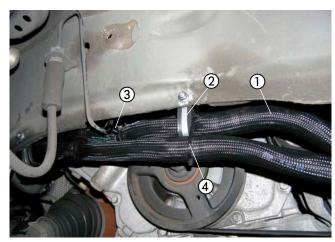


Photo 15

- ① Water hose from the engine to the water pump
- 2 Rubberised clip Ø 28 mm
- 3 Plastic holder 4.3-22
- 4 Cable strap

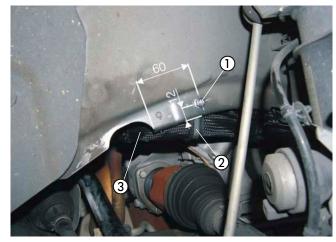


Photo 16

- 1) Drillhole Ø 6.5 mm
- 2 Rubberised clip Ø 28 mm
- (3) Water hose from the heater to the heat exchanger

Guide the water hose group upward and lay it along the engine partition up to the water disconnection point.

Use a cable strap to secure the water hose group to the air conditioning line.



Photo 17

- ① Water hose group
- ② Cable strap

Make a drillhole  $\varnothing$  5 mm in the vehicle's plastic nut on the heat shield of the engine partition and insert a cable strap into it.

Use the cable strap inserted in the plastic nut to fix the water



Photo 18

- ① Plastic nut on the heat shield of the engine partition
- ② Cable strap



Photo 19

- ① Water hose from the engine to the water pump
- ② Cable strap

hose from the engine to the water pump.

12

Connect the engine water hose to the water pump with the reducer  $\emptyset$  20/18 mm to the vehicle's hose from the engine.

Use the quick-release hose coupling to connect the water hose from the heater to the heat exchanger to the heat exchanger connection.

### Please note!

Secure all hose connections with hose clips. Protect the water hoses against chafing and use cable ties to secure in suitable positions.

Connect the Ohler flexible pipes with the connector as shown in the photo and secure with a cable strap.

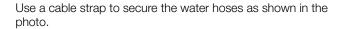




Photo 20

- ① Water hose from the engine to the water pump
- ② Water hose from the heater to the heat exchanger



Photo 21

- ① Water hose from the engine to the water pump
- 2 Connector of the Ohler flexible pipes



Photo 22

① Use a cable strap to secure the water hoses

#### Install fuel tank extractor

(see photos 23 to 27 and diagram 2)

Prepare the riser pipe of the fuel tank extractor as shown in the diagram.

Remove the tank according to the manufacturer's instructions. At the same time, undo the plug-in connection and the fuel line at the tank connection.

Remove the tank fitting from the tank opening by undoing the locking ring.

#### Please note!

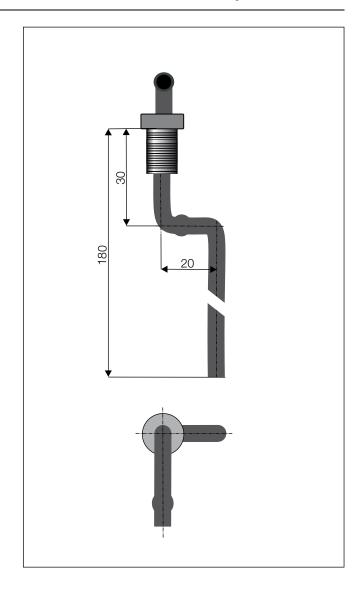
The tank fitting should not be removed for longer than 10 minutes because of expansion of the tank!

Make a hole  $\emptyset$  8 mm in the top part of the tank fitting with the dimensions shown in the photo.

Feed the fuel tank extractor through the hole made, align and screw tight with the nut M8 and body washer B8 from underneath.

#### Please note!

When drilling, ensure that no dirt gets into the tank or supply lines.



#### for vehicles with front wheel drive

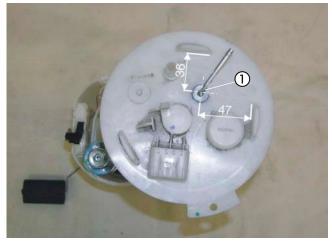


Photo 23

① Drillhole Ø 8 mm made in the top part of the tank fitting



Photo 24

① Fuel tank extractor installed

#### for vehicles with 4-wheel drive

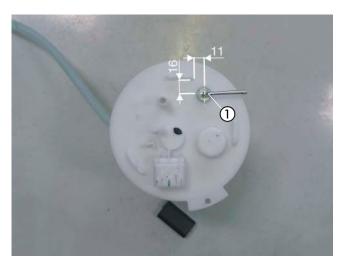


Photo 25

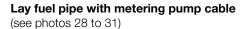
① Drillhole Ø 8 mm made in the top part of the tank fitting

Insert the tank fitting with a new gasket (22682111) back into the tank and fasten with the new locking ring (10325852); ensure the seal fits properly.

At the intake connection of the fuel tank extractor, connect the fuel pipe  $\varnothing$  4 x 1 mm with fuel hose  $\varnothing$  3.5 x 3 mm, length 50 mm.

Secure the connection points with clamps Ø 10.5 mm.

Install the tank again according to the manufacturer's instructions.



Connect the fuel pipe  $\varnothing$  4 x 1.25 mm to the heater with a 105° fuel hose elbow and a clamp  $\varnothing$  10.5 mm.

Connect the 8 pin connector of cable loom 1 with the 8 pin flat connector housing of the heater's cable loom.

Use a cable strap to fix the 8-pin plug-in connection to the gusset plate of the right-hand wheel arch as shown in the photo.

Lay the fuel pipe  $\emptyset$  4 x 1.25 mm together with the metering pump cable underneath the right-hand headlight in the engine compartment and guide them further up to the right-hand side of the engine partition.

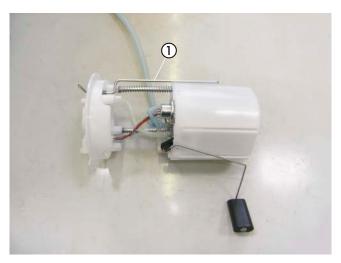


Photo 26

① Fuel tank extractor installed



Photo 27

① Fuel pipe Ø 4 x 1 mm connected

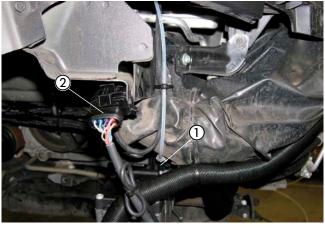


Photo 28

- ① Fuel pipe Ø 4 x 1.25 mm connected
- ② 8-pin plug-in connection fixed

Connect the 2-pin connector of the water pump cable loom to the water pump as shown in the photo.

Lay the cable in the short bend and secure with a cable tie to the connector.





Photo 29

① 2-pin connector of the water pump cable loom connected

Lay the fuel pipe  $\emptyset$  4 x 1.25 mm together with the metering pump cable further along the vehicle's fuel pipes to the right-hand side of the underbody.

Use cable ties to secure the fuel pipe  $\emptyset$  4 x 1.25 mm and the metering pump cable to the vehicle's fuel line.

#### Please note!

When laying the fuel line, ensure a sufficient distance from the stabiliser.

Lay the fuel pipe  $\emptyset$  4 x 1.25 mm together with the metering pump cable above the vehicle's fuel line to the installation position of the metering pump.

Use cable ties to secure the fuel pipe  $\emptyset$  4 x 1.25 mm and the metering pump cable to the vehicle's fuel line.

### Please note!

Use a sharp knife to cut the fuel pipe to length. Secure all hose connections with hose clips. When laying fuel lines, always ensure they are at an adequate distance from hot vehicle and heater parts.



Photo 30

① Fuel pipe Ø 4 x 1.25 mm and metering pump cable laid

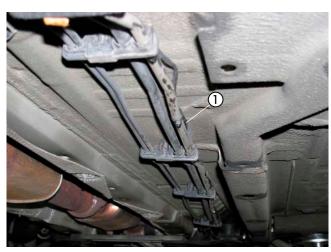


Photo 31

① Fuel pipe Ø 4 x 1.25 mm and metering pump cable laid on the right-hand side of the underbody



### Install and connect the metering pump

(see photo 32)

Insert the metering pump in the rubber holder and use the screw M6  $\times$  25 and two body washers B6 to screw it into the existing hole of the right-hand side member, as shown in the photo.

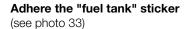
Ensure it is installed with at least 15° rising gradient on the discharge side.

The discharge connection of the metering pump points towards the right.

Cut the fuel pipe  $\emptyset$  4 x 1 mm from the tank extractor to the required length and connect to the intake side of the metering pump with fuel hose  $\emptyset$  3.5 x 3 mm.

Cut the fuel pipe  $\emptyset$  4 x 1.25 mm to the required length and connect to the discharge side of the metering pump with the 105° fuel hose elbow.

Slot the plug-in contacts of the metering pump cable into the mating connector, regardless of polarity, and connect to the metering pump.



Stick the "refuel" information sticker on the inside of the fuel tank flap as shown in the photo.



Photo 32

- Metering pump installed
- ② Cable strap



Photo 33

(1) "Refuel" information sticker stuck on

## 6 Electrics

#### Laying cable loom 1

(see photos 34 to 38 and diagram 3)

Make a drillhole  $\varnothing$  20 mm in the wiper pan and a drillhole  $\varnothing$  30 mm in the engine partition, as shown in the photo. To do this, expose the area in the interior.

Lay cable loom 1 through the cable penetration made in the wiper pan.

Lay the connection to cable loom 2 through the cable penetration made in the engine partition and into the interior of the vehicle.

Use body sealing compound to seal the cable grommet inserted in the engine partition.

Use two screws M4 x 12 to mount the fuses at the fuse holder.

Mount the fuse holder on the existing fixing tab of the wiper pan using one fillister-head screw M6 x 25, two body washers B6 and one nut M5. Insert the body washers B6 between the wiper pan and the wiper pan cover.

Fix the earth cable to the earthing point as shown in the photo.

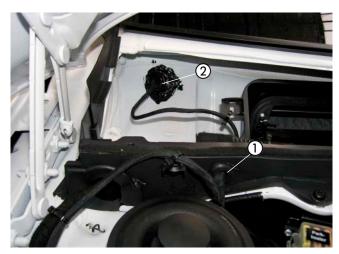


Photo 34

- ① Cable penetration, wiper pan
- 2 Sealed cable grommet in the engine partition

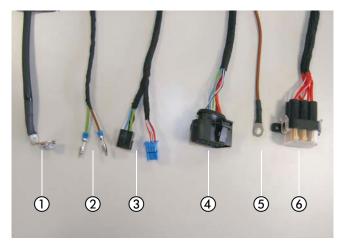


Photo 35 Cable loom 1

- ① Positive cable (fuse 30A)
- 2 Metering pump cable
- (3) Connection, cable loom 2
- 4 Connection, heater
- ⑤ Earth cable
- 6 Fuses



Photo 36

- 1 Fuses, mounted
- ② Earth cable connected

#### Please note!

When laying the cable looms, ensure they are at an adequate distance from hot vehicle and heater parts.

Use cable ties to fix the cable looms in suitable places.

part number: 13343694

## 6 Electrics

Lay the positive cable in the wiper pan and guide it through the grommet on the left-hand side of the vehicle to the fuse block.

Use cable ties to fix the positive cable in suitable places.



Photo 37

 Positive cable in the wiper pan laid up to the fuse block on the driver's side

Photo 38a

① Fuse 30 A mounted, positive cable connected

Remove the vehicle's 100 A fuse if not used, install 30 A fuse and connect the positive cable.

If the 100 A fuse is used (**quickheat system**), remove the positive cable from the fuse, insulate and tie back. Replace the 100 A fuse with the 30A fuse and connect the positive cable to the heater.

#### for vehicles without fuse box

Lay the positive cable in the wiper pan and guide it through the grommet on the left-hand side of the vehicle to the battery box.

Use a hexagon screw M5  $\times$  16 and a nut M5 to fix the single 30A fuse with the fuse holder to the battery box as shown in the photo.

Crimp on a plug-in contact to the positive cable and latch it onto the fuse.

Crimp a cable lug A6 and a plug-in contact to cable 4  $\,\mathrm{mm^2}\,\mathrm{rt}$  and latch onto the fuse.

Connect the cable 4 mm² rt with cable lug A6 to the positive post of the battery.

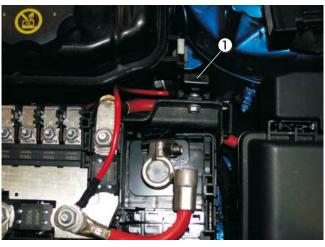


Photo 38b

① Single 30 A fuse mounted

# 6 Electrics

#### Laying cable loom 2

(see photos 39 to 48 and diagram 3)

Enlarge the drill hole in the holder to  $\emptyset$  5.5 mm. Fit the relay block at the hole made using a screw M5 x 10.

Insert the relay block at the relay block.

Use cable ties to fix the outgoing cable to the outer holes of the holder.

Use a screw M6 x 12 and a body washer B6 to mount the preassembled holder onto the left-hand instrument panel strut on the passenger's side.



Relay mounted on the holder

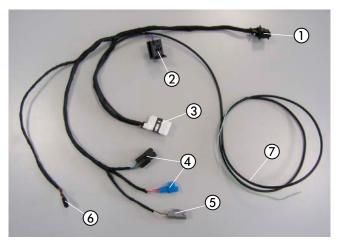
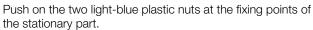


Photo 40

- ① Connection, stationary part R+
- ② Relay block
- 3 SVM control box
- (4) Connection, cable loom 1
- Temperature sensor R<sup>+</sup>
- ⑥ Button R<sup>+</sup>
- (7) Connection, CAN bus (DLC connector)



Insert the stationary part of the EasyStart  $R^+$  in the holder and fix using two flat-head screws with collar ST 5 x 20.

From cable loom 2, connect the connector for the stationary part of EasyStart R<sup>+</sup> and the antenna cable to the stationary part of EasyStart R<sup>+</sup>.

Feed the antenna cable to the right and lay in the rubber door seal on the passenger side.



Avoid contact with metal parts at the uninsulated end of the antenna cable.

Use cable ties to fix any excessive length of antenna cable underneath the instrument panel.

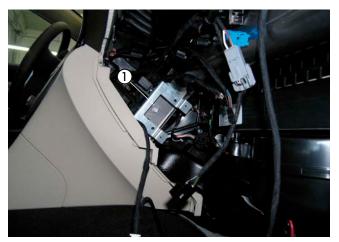


Photo 41

 Holder for relay, SVM control box and EasyStart R<sup>+</sup> stationary part mounted



Photo 42

① Stationary part R+ mounted on the holder

part number: 13343694

## 6 Electrics

Use two screws  $3.9 \times 9.5$  to mount the SVM control box on the holder.

Connect the connector of cable loom 2 for the SVM control box.



Photo 43

① SVM control box mounted on the holder

Mount the temperature sensor behind the glove compartment on the holder of the vehicle's cable loom.

Connect the blue connector (6-pin), the black connector (4-pin) and the grey connector (2-pin) with each other.

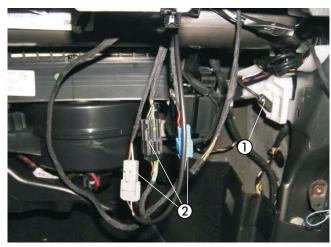


Photo 44

- ① Temperature sensor installed
- 2 Plug-in connections made

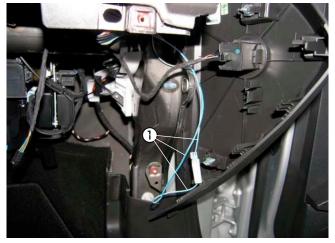


Photo 45

① Diagnostics cable 0.5 mm bl / ws

Lay the diagnostics cable 0.5  $\mbox{mm}^2\,\mbox{bl}$  / ws near the airbag switch on the passenger side.

# 6 Electrics

Make a hole  $\varnothing$  16 mm as shown in the photo for the button in the glove compartment on the right-hand side.

Make two holes  $\varnothing$  4.5 mm for the spacer-rubber plugs next to the button, as shown in the photo, and insert the spacer-rubber plugs in the holes.

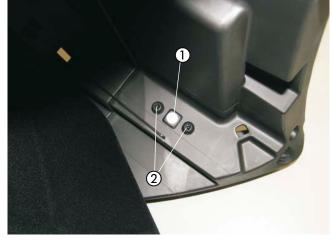


Photo 46

- ① Button
- Spacer-rubber plugs

In the area behind the glove compartment, wind insulating strips around all cables, as shown in the photo, and use cable ties to fix in suitable places.



Photo 47

① Cables with insulating strips wound around them

Wind insulating strips around the cable 0.5  $\rm mm^2~gn$  / ws and lay it up to the DLC connector behind the shelf on the Driver's side.

Disconnect the cable  $0.5~\rm mm^2$  gn at the 16-pin DLC connector (Pin 1) and use a red butt-type connector to tie in the cable  $0.5~\rm mm^2$  gn / ws as shown in the photo.

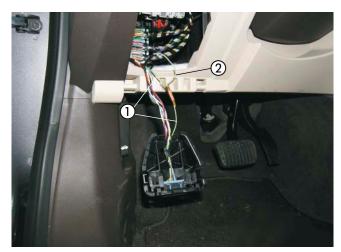


Photo 48

- ① Cable 0.5 mm² gn disconnected
- 2 Cable 0.5 mm<sup>2</sup> gn / ws tied in

# 6 Electrics



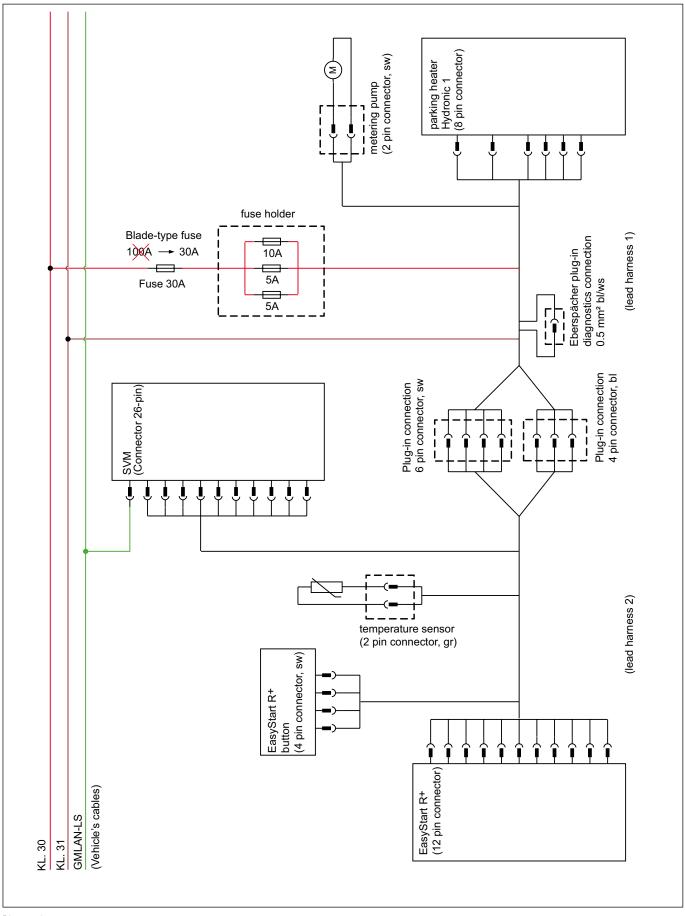


Diagram 3



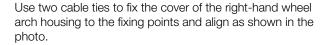
### After Installation

## Install the heat shield and cover on the right-hand wheel arch housing

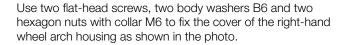
(see photos 49 to 51)

Lay the heat shield in line with the hole above the drillhole in the wheel arch liner and align as shown in the photo. Mark and make the four drillholes  $\varnothing$  8 mm in the wheel arch liner.

Use four plastic plugs and four plain washers M8 to fix the heat shield at the holes made.



Make two drillholes  $\varnothing$  6.5 mm in the right-hand wheel arch housing.



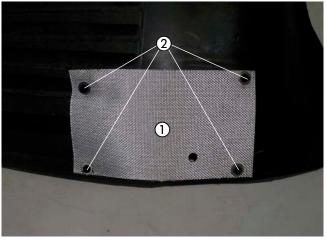


Photo 49

- 1 Heat shield
- 2 4 x plastic plugs with 4 x plain washers M8



Photo 50

- ① Cover of the wheel arch housing
- ② Two drillholes Ø 6.5 mm made



Photo 51

- ① Cover of the wheel arch housing
- ② Cover fixing points



### After Installation



### **Install engine underbody panelling** (see photo 52)

Install the right-hand engine underbody panelling and guide the exhaust end pipe through the hole.



Photo 52

- ① Engine underbody panelling
- ② Ø 50 mm drillhole
- 3 Exhaust end pipe

#### Complete the vehicle

- During installation of all removed parts the manufacturer guidance / instructions must be followed.
- Reconnect the battery.
- Check that the hoses, hose clips and pipe clamps as well as all electrical connections are fitted securely.
- Use cable ties to secure all loose cables, lines, etc.
- Restore all the vehicle's programmed settings (radio, window lift, etc.).
- Fill the cooling system, start the engine, vent the cooling system and check for leaks, top up any missing cooling liquid up to the marking (arrow).
- Please also note and follow the vehicle manufacturer's information on filling and venting the cooling system.
- Read and observe all official regulations and safety instructions in the Technical Description.
- Program the control and place the Operating Instructions, the Technical Description and the leaflet for the customer in the glove compartment.

#### Please note!

Fill the cooling system only with the coolant liquid specified by the vehicle manufacturer.

#### Starting up the heater

• Switch on the heater at the control unit. See Operating Instructions - Control.

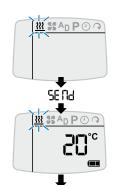
### Initial start-up

#### Configure system

The system must be configured depending on the application.

press until the menu bar appears in the display, then release the bkey.

The (i) symbol and the SE Nd text appear briefly.



P

SEINA

Select symbol (1) using (1) or then briefly press and simultaneously.

Confirm menu P1 with OK

Select the submenu C1 or C2 using - or - and confirm with



After the individual menu items have been set to of or on using - or - or selected using - or - and confirmed with or, they are displayed step by step.

00	Add-on unit <b>AD</b> (see table of "permissible unit combinations"	of / on
01	Temperature unit	of for °C on for F
02	Language / weekdays	of for DE on for EN
03	Time display format	of for 24h on for AM / PM
04		of
05	Upgrade box mode	of / on
06	In water heater, use or to change vehicle engine capacity, e.g. 18 = 1800 ccm	10 – 40 or of (automatic calculation of the operating period is deactivated).
	In air heater	of
07	Automatic runtime calculation, change operating period with or	10 – 60



If the menu item C1 / 07 has been confirmed with or the data is transferred. Then the time is displayed.

### The system configuration is finished.



#### Notes on the menu items

• These menu item is not to be used for the current heaters and must be set to "of".

#### 05

• This menu item only applies to heaters in the function as an independent heater and with JE diagnosis.

#### 06

#### In air heaters:

• This menu item must be set to "of".

#### In water heaters:

- If the valve 25 2014 80 62 00 or 25 2014 80 72 00 is used in the water circuit, the engine capacity given can be reduced by 500 cm<sup>3</sup>.
- If a greater heat requirement exists the engine capacity information can be increased by 500 cm<sup>3</sup>.

### Please note!

The values for the increase and reduction of the engine capacity information only apply to cooling water circuits whose vehicle blower heat exchanger is flowed through before the vehicle's engine.

• If the vehicle is only used on short routes the maximum operating time must be reduced in agreement with the customer.

#### Permissible unit combinations

<b>Unit 1</b> connected to diagnosis cable	Unit 2 connected to switching output
<b>Air heater</b> with JE diagnosis (control units with second diagnosis cable)	Water heater Diagnosis not connected
<b>Air heater</b> with JE diagnosis (control units with second diagnosis cable)	e.g.  Parking air conditioning

# Diagnostics

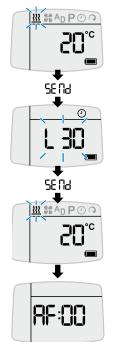
### Perform heater diagnosis

Activate mobile unit

Confirm **!!!** symbol with ok

#### Heater is switched on.

Confirm operating time with ok.



#### Teach additional mobile unit

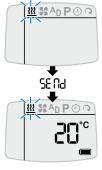
- Press the pushbutton installed in the vehicle until the pushbutton's LED begins to flash.
- Activate mobile unit.
- Select Rdd symbol using or and confirm with .
   The additional mobile unit has been taught.

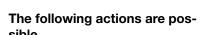


#### **Reset function**

The reset function is used to reset the radio remote control to the factory settings.

opress until the menu bar appears in the display, then release the key. The symbol and the SE Not text appear briefly.





and : simultaneously

press briefly.

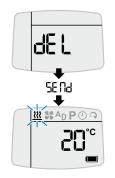
- Call up error memory.
   Use or to call up the error memory F1 F5.
- Call up error memory again.
   and : simultaneously press briefly.
- Delete error memory (dEL display) ok press.

Press OK again.

05

Not used

The diagnosis is completed.



Select symbol (1) using (a) or (a). then briefly press (a) and (a) simultaneously.

Menu P1 is displayed.





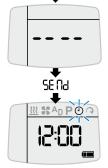
### Display system configuration

Select submenu **C2** as described on page 8.

After they have been conformed with ok, the individual menu items are displayed step by step.



Select reset function using \_ and \_ and confirm with \_ or .



00	Heater type	0 = unknown unit 1 = Air heater 2 = Water heater 3 = Add-on unit
01	Diagnosis	0 = 1 = None 2 = Free running 3 = JE diagnosis
02	Ventilation function	of / on
03	Temperature sensor installed	of / on
04	Not used	

The radio remote control is reset to the factory settings.

### Please note!

All timer settings are lost. Heating mode is terminated.





Unit bracket Unit bracket Unit bracket, front Diffusion Holder Fuse holder Reley holder, stationary part R1, SVM control box Torx screw M6 x 130 Rubber buffer Spacer slations Hoxagon screw M6 x 12 Hoxagon scrow M6 x 12 Hoxagon scrow M6 x 12 Hoxagon scrow M6 x 25 Hoxagon scrow M6 x 25 Hoxagon scrow M6 x 25 Hoxagon nut M6 Body washer B6. Reley holder ST S x 20 Rillister-head scrow with collar ST S x 20 Rillister-head scrow M5 x 15 Hoxagon scrow M5 x 15 Hoxagon scrow M6 x 12 Rill head scrow with collar ST S x 20 Rillister-head scrow M5 x 25 Scrow M5 x 10 Hoxagon scrow M5 x 15 Hoxagon scrow M6 x 12 Rillister-head scrow M4 x 12 Rillister-head scrow M6 x 15 Rillister-head scrow M6 x 16 Hoxagon scrow M12 x 12 Rillister-head scrows witheat arch housing) Scrow M6 x 40 (Cardan shaft) Scrow M7 x 40 (Cardan shaft) Scrow M7 x 40 (Cardan shaft) Scrow M7 x 40 (Cardan shaft) Scrow M8 x 40 (Cardan shaft) Scrow M7 x 40 (Cardan shaft) Scrow M8 x 40 (Cardan shaft) Scrow M7 x 40 (Cardan shaft) Scrow M8 x 40 (Cardan shaft) Scrow M8 x 40 (Cardan shaft) Scrow M7 x 40 (Cardan shaft) Scrow M8	Item	Designation	Quantity	Order number
Unit bracket, front Exhaust holder Relay holder, stationary part R¹, SVM control box Torx screw M6 x 130 Rubber buffer Spacer sleeve Hexagon screw M6 x 12 Hexagon screw M6 x 12 Hexagon screw M6 x 16 Hexagon screw M6 x 16 Hexagon screw M6 x 25 Hexagon nut M6 Body washer B6.4 RIst head screw with collar 3.9 x 9.5 Plastic nut, light blue Elat head screw with toollar ST 5 x 20 Fall steed screw M6 x 16 Hexagon nut M6 Body washer B6 Fillister-head screw M5 x 16 Hexagon nut M8 Body washer B6 Hexagon nut M8 Body washer B6 Hexagon nut M8 Body washer B8 Hexagon nut M8 Body washer B8 Hexagon screw M12 x 45 Flat head screw (wheel arch housing) Screw M8 x 40 (Cardan shaft) Exhaust pipe with end sleeve Exhaust slencer Combustion air pipe Hose clip C 20-32 mm Moulded hose 0 20 x 180° Water pump holder Reducer O 20/18 mm Clips Q 20-32 mm Rubbrised clip Q 28 mm Puel pipe Q 4 x 1 mm Fuel pipe	1	Vehicle specific additional parts		13343694
Unit bracket, front Exhaust holder Relay holder, stationary part R¹, SVM control box Torx screw M6 x 130 Rubber buffer Spacer sleeve Hexagon screw M6 x 12 Hexagon screw M6 x 12 Hexagon screw M6 x 16 Hexagon screw M6 x 16 Hexagon screw M6 x 25 Hexagon nut M6 Body washer B6.4 RIst head screw with collar 3.9 x 9.5 Plastic nut, light blue Elat head screw with toollar ST 5 x 20 Fall steed screw M6 x 16 Hexagon nut M6 Body washer B6 Fillister-head screw M5 x 16 Hexagon nut M8 Body washer B6 Hexagon nut M8 Body washer B6 Hexagon nut M8 Body washer B8 Hexagon nut M8 Body washer B8 Hexagon screw M12 x 45 Flat head screw (wheel arch housing) Screw M8 x 40 (Cardan shaft) Exhaust pipe with end sleeve Exhaust slencer Combustion air pipe Hose clip C 20-32 mm Moulded hose 0 20 x 180° Water pump holder Reducer O 20/18 mm Clips Q 20-32 mm Rubbrised clip Q 28 mm Puel pipe Q 4 x 1 mm Fuel pipe		Unit bracket	1	
Exhaust holder Fuse holder Fuse holder Relay holder, stationary part R*, SVM control box Torx screw M6 x 130 Rubber buffer Spacer sleeve 2 Hoxagon screw M6 x 12 Hoxagon screw M6 x 16 Hoxagon screw M6 x 16 Hoxagon screw M6 x 25 Hoxagon nut M6 Body washer B6.4 Raf head screw with collar 3.9 x 9.5 Plastic nut, light blue 2 Rat head screw with collar ST 5 x 20 Fillister-head screw M6 x 25 Screw M6 x 10 Hoxagon screw M6 x 16 Hoxagon screw M6 x 25 Screw M6 x 10 Hoxagon screw M6 x 25 Screw M6 x 10 Hoxagon screw M6 x 25 Screw M6 x 10 Hoxagon screw M7 x 12 Plain washer B5 Illister-head screw M4 x 12 Plain washer B4 Plain washer B4 Plain washer B5 Illister-head screw M12 x 45 Flat-head screw M13 x			1	
Fuse holder   Relay holder, stationary part R*, SVM control box   1			1	
Torx screw M6 x 130 Rubber buffer 4 Spacer sleeve Hoxagon screw M6 x 12 Hexagon screw M6 x 16 Hoxagon screw M6 x 16 Hoxagon screw M6 x 16 Hoxagon screw W6 x 25 Hexagon nut M6 Body washer B6.4 Riat head screw with collar 3.9 x 9.5 Plastic nut, light blue Plat head screw with collar ST 5 x 20 Plastic nut, light blue Riat head screw with collar ST 5 x 20 Fillister-head screw M5 x 25 Screw M5 x 10 Hexagon nut M5 Body washer B5 Fillister-head screw M4 x 12 Plain washer 8.4 Plain washer 8.4 Plain washer 8.4 Plain washer 8.4 Plain washer 8.8 Hoxagon screw M12 x 45 Fill-head screws (wheel arch housing) Screw 9 x 19-A2 Screw M8 x 40 (Cardan shaft) Exhaust pipe with end sloeve Exhaust silencer Combustion air pipe Hose clip Ø 16-25 mm Moulded hose			1	
Torx screw M6 x 130 Rubber buffer 4 Spacer sleeve Hoxagon screw M6 x 12 Hexagon screw M6 x 16 Hoxagon screw M6 x 16 Hoxagon screw M6 x 16 Hoxagon screw W6 x 25 Hexagon nut M6 Body washer B6.4 Riat head screw with collar 3.9 x 9.5 Plastic nut, light blue Plat head screw with collar ST 5 x 20 Plastic nut, light blue Riat head screw with collar ST 5 x 20 Fillister-head screw M5 x 25 Screw M5 x 10 Hexagon nut M5 Body washer B5 Fillister-head screw M4 x 12 Plain washer 8.4 Plain washer 8.4 Plain washer 8.4 Plain washer 8.4 Plain washer 8.8 Hoxagon screw M12 x 45 Fill-head screws (wheel arch housing) Screw 9 x 19-A2 Screw M8 x 40 (Cardan shaft) Exhaust pipe with end sloeve Exhaust silencer Combustion air pipe Hose clip Ø 16-25 mm Moulded hose			1	
Rubber buffer   Spacer sleeve   2			1	
Hexagon screw M6 x 12			4	
Hexagon screw M6 x 12		Spacer sleeve	2	
Hexagon screw M6 x 16				
Hexagon screw M6 x 25			6	
Body washer B6.4		Hexagon screw M6 x 25	1	
Flat head screw with collar 3.9 x 9.5   2   Plastic nut, light blue   2   1   2   1   2   1   2   2   1   2   1   2   2		Hexagon nut M6	7	
Plastic nut, light blue Flat head screw with collar ST 5 x 20 Fillister-head screw M5 x 25 Screw M5 x 10 Hexagon screw M5 x 16 Hexagon nut M5 Body washer B5 Fillister-head screw M4 x 12 Plain washer 8.4 Plain washer 8.3 Hexagon nut M8 Body washer B5 Inlister-head screw M4 x 12 Plain washer 5.3 Hexagon nut M8 Body washer B8 Inlexagon nut M8 Body washer B8 Flat-head screw M12 x 45 Flat-head screws (wheel arch housing) Screw 9 x 19-A2 Screw M8 x 40 (Cardan shaft) Shaust pipe with end sleeve Screw M8 x 40 (Cardan shaft) Shaust pipe with end sleeve Shaust clip Foam strips Butt-type connector, red Exhaust silencer Combustion air pipe Hose clip Ø 16-25 mm Moulded hose Ø 20 x 180° Moulded hose Ø 20 x 180° Moulded hose Ø 20-32 mm Fleducer Ø 20-32 mm Rubberised clip Ø 28 mm Pluel pipe Ø 4 x 1 mm Rubberised clip Ø 28 mm Fuel pipe Ø 4 x 1.25 mm Metering pump holder Gemi clip Ø 10.5 mm Fuel pipe Ø 4 x 1.25 mm Metering pump holder Fuel hose elbow 10.5°				
Flat head screw with collar ST 5 x 20 Fillister-head screw M5 x 25 Screw M5 x 10 Hexagon screw M5 x 16 Hexagon nut M5 Body washer B5 Fillister-head screw M4 x 12 Plain washer 8.4 Plain washer 8.4 Plain washer B8 Hexagon nut M8 Body washer B8 Hexagon nut M8 1 Body washer B8 Hexagon screw M1 z x 45 Flat-head screws (wheel arch housing) Screw 9 x 19-A2 Screw M8 x 40 (Cardan shaft) Screw 9 x 19-A2 Screw M8 x 40 (Cardan shaft) Schaust pipe with end sleeve Exhaust clip Foam strips Butt-type connector, red Exhaust silencer Combustion air pipe Hose clip Ø 16-25 mm Moulded hose Ø 20 x 180° Water pump holder Reducer Ø 20/18 mm Clips Ø 20-32 mm Rubberised clip Ø 28 mm Fuel pipe Ø 4 x 1.25 mm Metering pump holder Gemi clip Ø 10.5 mm Fuel pipe Ø 4 x 1.25 mm Metering pump holder Gemi clip Ø 10.5 mm Fuel tank extractor Fuel hose elbow 10.5° Fuel hose elbow 10.5° Fuel hose elbow 10.5 mm Fuel tank extractor Fuel hose elbow 10.5° Fuel hose elso mn x 50 mm				
Fillister-head screw M5 x 25   1   1   1   1   1   1   1   1   1				
Screw M5 x 10			2	
Hexagon screw M5 x 16 Hexagon nut M5 Body washer B5 Fillister-head screw M4 x 12 Plain washer 6.4 Plain washer 6.3 Hexagon nut M8 Body washer B8 Hexagon screw M12 x 45 Flat-head screws (wheel arch housing) Screw 9 x 19-A2 Screw M8 x 40 (Cardan shaft) Sthaust pipe with end sleeve Exhaust pipe with end sleeve Dutt-type connector, red Exhaust slencer Combustion air pipe Hose clip Ø 16-25 mm Moulded hose Moulded hose Ø 20 x 180° Water pump holder Reducer Ø 20/18 mm Clips Ø 20-32 mm Rubberised clip Ø 28 mm Puel pipe Ø 4 x 1.25 mm Metering pump holder Gemi clip Ø 10.5 mm Fuel tank extractor Fuel hose elbow 105° Fuel hose 3.5 mm x 50 mm			1	
Hexagon nut M5   5   5   6   6   6   6   6   6   6			1	
Body washer B5			1	
Fillister-head screw M4 x 12 Plain washer 8.4 Plain washer 8.3 Hexagon nut M8 Body washer B8 Hexagon screw M12 x 45 Flat-head screws (wheel arch housing) Screw 9 x 19-A2 Screw M8 x 40 (Cardan shaft) Exhaust pipe with end sleeve Exhaust clip Foam strips Butt-type connector, red Exhaust silencer Combustion air pipe Hose clip Ø 16-25 mm Moulded hose Moulded				
Plain washer 8.4 Plain washer 5.3 Hexagon nut M8 Body washer B8 Hexagon screw M12 x 45 Flat-head screws (wheel arch housing) Screw 9 x 19-A2 Screw M8 x 40 (Cardan shaft) Exhaust pipe with end sleeve Exhaust clip Foam strips Butt-type connector, red Exhaust silencer Combustion air pipe Hose clip Ø 16-25 mm Moulded hose Moulded hose Ø 20 x 180° Water pump holder Reducer Ø 20/18 mm Clips Ø 20-32 mm Rubberised clip Ø 28 mm Puel tank extractor Fuel pipe Ø 4 x 1.25 mm Metering pump holder Gemi clip Ø 10.5 mm Fuel tank extractor Fuel hose elbow 105° Fuel hose elbow 105° Fuel hose s.5 mm x 50 mm  0 1  1 1  1 1  1 1  1 1  1 1  1 1			•	
Plain washer 5.3     Hexagon nut M8     Body washer B8     Hexagon screw M12 x 45     Flat-head screws (wheel arch housing)     Screw 9 x 19-A2     Screw M8 x 40 (Cardan shaft)     Exhaust pipe with end sleeve     Exhaust clip     Foam strips     Butt-type connector, red     Exhaust silencer     Combustion air pipe     Hose clip Ø 16-25 mm     Moulded hose     Moulded hose Ø 20 x 180°     Water pump holder     Reducer Ø 20/18 mm     Clips Ø 20-32 mm     Rubberised clip Ø 28 mm     Plastic holder 4.3 - 22     Fuel pipe Ø 4 x 1.25 mm     Metering pump holder     Gemi clip Ø 10.5 mm     Fuel tank extractor     Fuel hose elbow 105°     Fuel hose elbow 105°     Fuel hose s.5 mm x 50 mm				
Hexagon nut M8 Body washer B8 Hexagon screw M12 x 45 Flat-head screws (wheel arch housing) Screw 9 x 19-A2 Screw M8 x 40 (Cardan shaft) Exhaust pipe with end sleeve Exhaust clip Foam strips Butt-type connector, red Exhaust silencer Combustion air pipe Hose clip Ø 16-25 mm Moulded hose Moulded hose Ø 20 x 180° Water pump holder Reducer Ø 20/18 mm Clips Ø 20-32 mm Rubberised clip Ø 28 mm Fuel tank extractor Fuel hose elbow 10.5°			="	
Body washer B8			1	
Hexagon screw M12 x 45 Flat-head screws (wheel arch housing) Screw 9 x 19-A2 Screw M8 x 40 (Cardan shaft) Exhaust pipe with end sleeve Exhaust clip Foam strips Butt-type connector, red Exhaust silencer Combustion air pipe Hose clip Ø 16-25 mm Moulded hose Moulded hose Ø 20 x 180° Water pump holder Reducer Ø 20/18 mm Clips Ø 20-32 mm Rubberised clip Ø 28 mm Plastic holder 4,3 - 22 Fuel pipe Ø 4 x 1.25 mm Metering pump holder Gemi clip Ø 10.5 mm Fuel tank extractor Fuel hose elbow 105° Fuel hose elbow 105° Fuel hose 9.5 mm x 50 mm  1  1  2  5  1  1  1  1  1  1  1  1  1  1  1  1			1	
Flat-head screws (wheel arch housing)   Screw 9 x 19-A2   1			1	
Screw 9 x 19-A2       1         Screw M8 x 40 (Cardan shaft)       3         Exhaust pipe with end sleeve       0.3 m         Exhaust clip       3         Foam strips       2         Butt-type connector, red       1         Exhaust silencer       1         Combustion air pipe       1         Hose clip Ø 16-25 mm       1         Moulded hose       1         Moulded hose Ø 20 x 180°       1         Water pump holder       1         Reducer Ø 20/18 mm       1         Clips Ø 20-32 mm       6         Rubberised clip Ø 28 mm       2         Plastic holder 4.3 - 22       1         Fuel pipe Ø 4 x 1 mm       2 m         Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       8         Fuel hose s.5 mm x 50 mm       0.05 m			•	
Screw M8 x 40 (Cardan shaft)       3         Exhaust pipe with end sleeve       0.3 m         Exhaust clip       3         Foam strips       2         Butt-type connector, red       1         Exhaust silencer       1         Combustion air pipe       1         Hose clip Ø 16-25 mm       1         Moulded hose       1         Moulded hose Ø 20 x 180°       1         Water pump holder       1         Reducer Ø 20/18 mm       1         Clips Ø 20-32 mm       6         Rubberised clip Ø 28 mm       2         Plastic holder 4.3 - 22       1         Fuel pipe Ø 4 x 1 mm       2 m         Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       8         Fuel hose 3.5 mm x 50 mm       0.05 m				
Exhaust pipe with end sleeve 0.3 m Exhaust clip 3 Foam strips 2 Butt-type connector, red 1 Exhaust silencer 1 Combustion air pipe 1 Hose clip Ø 16-25 mm 1 Moulded hose  1 Moulded hose Ø 20 x 180° 1 Water pump holder 1 Reducer Ø 20/18 mm 1 Clips Ø 20-32 mm 6 Rubberised clip Ø 28 mm 2 Plastic holder 4.3 - 22 1 Fuel pipe Ø 4 x 1 mm 5 m Fuel pipe Ø 4 x 1.25 mm 5 m Metering pump holder 1 Gemi clip Ø 10.5 mm 8 Fuel tank extractor 1 Fuel hose elbow 105° Fuel hose s.5 mm x 50 mm 0.05 m				
Exhaust clip Foam strips Butt-type connector, red Exhaust silencer Combustion air pipe Hose clip ∅ 16-25 mm Moulded hose Moulded hose ∅ 20 x 180° Water pump holder Reducer ∅ 20/18 mm Clips ∅ 20-32 mm Rubberised clip ∅ 28 mm Plastic holder 4.3 - 22 Fuel pipe ∅ 4 x 1 mm Fuel pipe ∅ 4 x 1.25 mm Metering pump holder Gemi clip ∅ 10.5 mm Fuel tank extractor Fuel hose elbow 105° Fuel hose 3.5 mm x 50 mm  2  S  S  S  S  S  S  S  S  S  S  S  S				
Foam strips   2   1   1   1   1   1   1   1   1   1				
Exhaust silencer Combustion air pipe Hose clip Ø 16-25 mm Moulded hose Moulded hose Ø 20 x 180° Water pump holder Reducer Ø 20/18 mm Clips Ø 20-32 mm Rubberised clip Ø 28 mm Plastic holder 4.3 - 22 Fuel pipe Ø 4 x 1 mm Fuel pipe Ø 4 x 1.25 mm Metering pump holder Gemi clip Ø 10.5 mm Fuel tank extractor Fuel hose elbow 105° Fuel hose 3.5 mm x 50 mm  1  1  1  1  1  1  1  1  1  1  1  1		Foam strips	2	
Combustion air pipe       1         Hose clip Ø 16-25 mm       1         Moulded hose       1         Moulded hose Ø 20 x 180°       1         Water pump holder       1         Reducer Ø 20/18 mm       1         Clips Ø 20-32 mm       6         Rubberised clip Ø 28 mm       2         Plastic holder 4.3 - 22       1         Fuel pipe Ø 4 x 1 mm       2 m         Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       0.05 m		Butt-type connector, red	1	
Hose clip Ø 16-25 mm  Moulded hose  Moulded hose Ø 20 x 180°  Water pump holder  Reducer Ø 20/18 mm  Clips Ø 20-32 mm  Rubberised clip Ø 28 mm  Plastic holder 4.3 - 22  Fuel pipe Ø 4 x 1 mm  Fuel pipe Ø 4 x 1.25 mm  Metering pump holder  Gemi clip Ø 10.5 mm  Fuel tank extractor  Fuel hose elbow 105°  Fuel hose 3.5 mm x 50 mm			1	
Moulded hose       1         Moulded hose Ø 20 x 180°       1         Water pump holder       1         Reducer Ø 20/18 mm       1         Clips Ø 20-32 mm       6         Rubberised clip Ø 28 mm       2         Plastic holder 4.3 - 22       1         Fuel pipe Ø 4 x 1 mm       2 m         Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       1         Fuel hose 3.5 mm x 50 mm       0.05 m			1	
Moulded hose Ø 20 x 180°       1         Water pump holder       1         Reducer Ø 20/18 mm       1         Clips Ø 20-32 mm       6         Rubberised clip Ø 28 mm       2         Plastic holder 4.3 - 22       1         Fuel pipe Ø 4 x 1 mm       2 m         Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       0.05 m         Fuel hose 3.5 mm x 50 mm       0.05 m		•	1	
Water pump holder       1         Reducer Ø 20/18 mm       1         Clips Ø 20-32 mm       6         Rubberised clip Ø 28 mm       2         Plastic holder 4.3 - 22       1         Fuel pipe Ø 4 x 1 mm       2 m         Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       0.05 m         Fuel hose 3.5 mm x 50 mm       0.05 m			1	
Reducer Ø 20/18 mm       1         Clips Ø 20-32 mm       6         Rubberised clip Ø 28 mm       2         Plastic holder 4.3 - 22       1         Fuel pipe Ø 4 x 1 mm       2 m         Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       0.05 m         Fuel hose 3.5 mm x 50 mm       0.05 m			1	
Clips Ø 20-32 mm       6         Rubberised clip Ø 28 mm       2         Plastic holder 4.3 - 22       1         Fuel pipe Ø 4 x 1 mm       2 m         Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       0.05 m         Fuel hose 3.5 mm x 50 mm       0.05 m			]	
Rubberised clip Ø 28 mm       2         Plastic holder 4.3 - 22       1         Fuel pipe Ø 4 x 1 mm       2 m         Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       0.05 m         Fuel hose 3.5 mm x 50 mm       0.05 m				
Plastic holder 4.3 - 22       1         Fuel pipe Ø 4 x 1 mm       2 m         Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       0.05 m         Fuel hose 3.5 mm x 50 mm       0.05 m				
Fuel pipe Ø 4 x 1 mm  Fuel pipe Ø 4 x 1.25 mm  Sometimes of the pipe Ø 4 x 1.25 mm  Metering pump holder  Gemi clip Ø 10.5 mm  Fuel tank extractor  Fuel hose elbow 105°  Fuel hose 3.5 mm x 50 mm  Sometimes of the pipe Ø 4 x 1 mm  Sometimes of the pipe Ø 4 x 1 mm  Sometimes of the pipe Ø 4 x 1 mm  Sometimes of the pipe Ø 4 x 1 mm  Sometimes of the pipe Ø 4 x 1 mm  Sometimes of the pipe Ø 4 x 1 mm  Sometimes of the pipe Ø 4 x 1 mm  Sometimes of the pipe Ø 4 x 1 mm  Sometimes of the pipe Ø 4 x 1 mm  Sometimes of the pipe Ø 4 x 1.25 mm  Sometimes of the pipe Ø 4 x		·		
Fuel pipe Ø 4 x 1.25 mm       5 m         Metering pump holder       1         Gemi clip Ø 10.5 mm       8         Fuel tank extractor       1         Fuel hose elbow 105°       0.05 m         Fuel hose 3.5 mm x 50 mm       0.05 m			· ·	
Metering pump holder  Gemi clip Ø 10.5 mm  Fuel tank extractor  Fuel hose elbow 105°  Fuel hose 3.5 mm x 50 mm  1  0.05 m				
Gemi clip Ø 10.5 mm  Fuel tank extractor  Fuel hose elbow 105°  Fuel hose 3.5 mm x 50 mm  8  1  0.05 m				
Fuel tank extractor 1 Fuel hose elbow 105° Fuel hose 3.5 mm x 50 mm 0.05 m				
Fuel hose elbow 105° Fuel hose 3.5 mm x 50 mm  0.05 m				
Fuel hose 3.5 mm x 50 mm 0.05 m				
Fuel hose 3.5 mm x 50 mm 0.05 m			0.05 m	
		Fuel hose 3.5 mm x 50 mm	0.05 m	





Item	Designation	Quantity	Order number
1	Vehicle specific additional parts		13343694
	Cover, wheel arch housing Cable loom 1 Cable loom 2 Spacer - rubber plugs (button) Relay 20A Fuse 30A SVM control box Button Easy Start R+ Cable ties Cable ties Cable ties Sticker (refuelling) gasket for tank fitting locking ring for tank fitting Plastic plugs Heat shield material Cable lug A6 Single fuse holder Retaining plate Seal, yellow Fuse contact 4 - 6 mm² Fuse 30A Cable 4 mm² red	1 1 2 1 1 1 1 1 1 10 60 5 1 1 1 1 1 1 1 2 2 2 1 0.2 m	