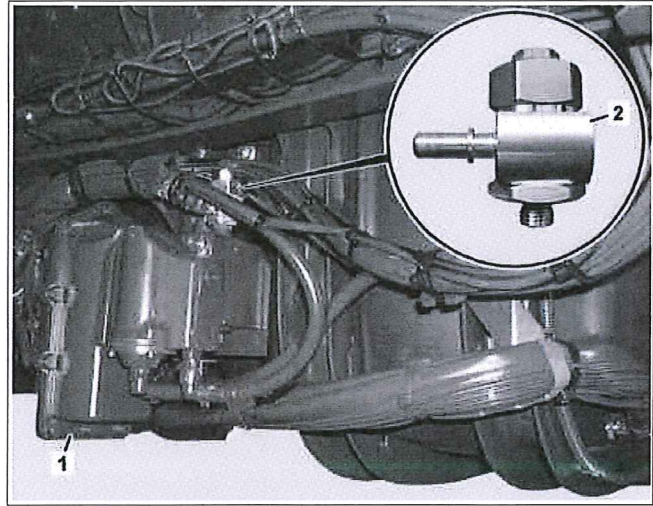


SI14.40-W-0011A	Service Information: Repair solution for pressure reducing valve in pump module of exhaust aftertreatment system	21.10.10
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MODEL 375.3 /4, 930, 932, 933, 934, 940, 942, 943, 944, 950, 952, 953, 954, 957, 958.2 with CODE (MS4) BlueTec 4
MODEL 375.3 /4, 930, 932, 933, 934, 940, 942, 943, 944, 949, 950, 952, 953, 954, 957, 958.2 with CODE (MS5) BlueTec 5
MODEL 375.1, 958.0, 970, 972, 974, 975, 976 with CODE (MS4) BlueTec 4
MODEL 375.1, 958.0, 970, 972, 974, 975, 976 with CODE (MS5) BlueTec 5

Shown: pump module A 000 140 04 78 with repair solution, external pneumatic pressure reducing valve

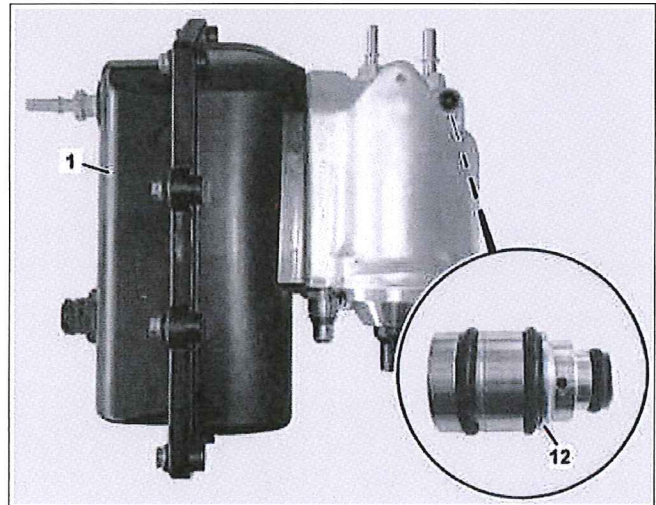
- 1 Pump module
- 2 External pneumatic pressure reducing valve



W14.40-1510-11

Shown here pump module A 000 140 05 78 with repair solution, internal pneumatic pressure reducing valve

- 1 Pump module
- 12 Internal pneumatic pressure reducing valve (type of construction: diaphragm valve)



W14.40-1495-11

Modification notes

19.10.10	Possible repair solution also for pump module with part number A 000 140 02 78 or A 000 140 03 78, added.		
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Since market launch of the Euro 4/5 five different pump module variants have been installed including the current condition (09/2010) which deviate from each other in the details and which can be differentiated between based on the part number attached to the housing.

Damage to pressure reducing valve

Mechanical wear can result in pneumatic pressure reducing valves sticking. This leads to malfunctions in the exhaust aftertreatment system.

Repair solutions in event of a defective pressure reducing valve

There are repair solutions available for several types of pump module that avoid the need for any replacement of the complete pump module in the event of a defective pressure reducing valve .

- **Pump modules with part number: A 000 140 01 78**
There is no repair solution available for these pump modules so they must be completely replaced in a case of damage occurring.
- **Pump modules with part numbers: A 000 140 02 78 and A 000 140 03 78**
In the case of damage an external pneumatic pressure reducing valve (2) can be installed, which takes over the function of the internal pressure reducing valve. This can also be replaced in a case of damage occurring. For these pump module variants the plug coupling for the AdBlue return line must also be adapted, and the pressure accumulator bladder replaced.

- **Pump modules with part number: A 000 140 04 78**
In the case of damage an external pneumatic pressure reducing valve (2) can also be installed here, which takes over the function of the internal pressure reducing valve. No additional work must be performed for these pump module variants.
- **Pump modules with part number: A 000 140 05 78**
This pump module does not have the internal pneumatic pressure relief valve fitted in the piston valve type, but rather an internal pneumatic pressure relief valve of the diaphragm valve type. It can be replaced in a case of damage occurring.

Troubleshooting/diagnosis

In the case of a fault, one of the following fault codes is currently stored in the engine control (MR) control unit:

- MR X 67 70 "AdBlue pressure drop too low in power-down"
- MR X 67 21 "AdBlue pressure too low"

Depending on the software version of the engine control (MR) control unit the fault priority can be "X", "0" or "1".

The following causes can also lead to these fault codes:



- Incorrect refueling of AdBlue container with diesel fuel
- Defective air pressure sensor on metering device
- Kinked air lines or AdBlue lines
- Clogged filter screen

For this reason it is absolutely essential to adhere to the test steps specified in Star Diagnosis or in TIPS. If the instruction "Replace pump module" appears the corresponding repair method should be used depending on the part number of the pump module (1).

Invoicing

The installation of the external/internal pneumatic pressure reducing valve can be invoiced via damage code 14471 B2 (AdBlue AdBlue pump module - clogged).

Damage code 47308 (AdBlue shift valve) has been introduced for complaints about the external/internal pneumatic pressure reducing valve.

	Install external pneumatic pressure reducing valve (2)	 Pump module with part number A 000 140 02 78 or A 000 140 03 78 or A 000 140 04 78. Model 375.3/4, 930, 932, 933, 934, 940, 942, 943, 944, 950, 952, 953, 954 Model 375.1, 958.0, 970, 972, 974, 975, 976 except sweeper body Model 375.1, 958.0, 970, 972, 974, 975, 976 with sweeper body - There are no instructions for these vehicles because the required installation space cannot be guaranteed here.	SM14.40-W-0010A
	Replace internal pneumatic pressure reducing valve (12) of pump module	 Pump module with part number A 000 140 05 78 Model 375, 930, 932, 933, 934, 940, 942, 943, 944, 950, 952, 953, 954, 957, 958, 970, 972, 974, 975, 976 Model 949	AR14.40-W-2048A AR14.40-W-2048R

Parts ordering notes

Part no.	Designation	Quantity
	For pump modules with part number: A 000 140 05 78	1
A 000 142 00 19	Internal pneumatic pressure relief valve	1
	For pump module with part numbers: A 000 140 02 78, A 000 140 03 78	1
A 000 142 05 19	External pneumatic pressure reducing valve	1
A 003 997 23 89	AdBlue line plug coupling 9.49 mm	1
A 000 995 62 35	One-ear clamp	1
A 000 142 01 06	AdBlue filter	1
A 941 475 17 20	Profile base (as chafe protection for the external pneumatic pressure reducing valve)	1
	For pump modules with part number: A 000 140 04 78	1
A 000 142 03 19	External pneumatic pressure reducing valve	1
A 941 475 17 20	Profile base (as chafe protection for the external pneumatic pressure reducing valve)	1