

## Vacuum pump (KPSA) Piston pump with tappet drive Complaints

si 0034/A **GB**

MSI-PG 11.02

Vehicle: Audi, Volvo, VW	Product: Vacuumpump	
Pierburg-no.	Replacement	O.E.-no. *)
7.20533.01.0/.31.0/.41.0/.81.0/.91.0 7.22300.01.0/.11.0/.51.0	7.22300.61.0 ┆	069 145 101 A; 072 145 100 A / ...101 A; 12 57206; 1357206
7.20533.02.0/.32.0/.42.0/.82.0/.92.0 7.22300.02.0/.12.0/.52.0	7.22300.62.0 ┆	075 145 100 / ...101 / ...101 A
7.20533.04.0/.34.0/.44.0/.84.0/.94.0 7.22300.04.0/.14.0/.54.0	7.22300.64.0 ┆	035 145 101 A; 054 145 100
7.20533.05.0/.35.0/.45.0/.85.0/.95.0 7.22300.05.0/.15.0/.55.0	7.22300.65.0 ┆	072 145 099 / ...100 / ...101; 073 145 100; 13 28119; 1428119; 91 35896
7.20533.36.0/.38.0/.48.0/.86.0/.88.0/.98.0 7.22300.08.0/.18.0/.58.0	7.22300.68.0 ┆	074 145 100 / ...101 A; 9155884
7.20533.49.0/.99.0 7.22300.09.0/.19.0/.59.0	7.22300.69.0 ┆	074 145 100 A
7.22300.10.0/.20.0/.60.0/.70.0		072 145 100 C

### Complaint: Noise/rattling

These complaints can occur at higher output and if an incorrect pump is installed.

#### Causes:

The tappet (Fig. 3) of the vacuum pump (1) is frictionally connected via an intermediate tappet (4) with the drive cam (5). As a result of excessive oil or deposits in the piston chamber, the piston stroke is limited, the tappet (3) lifts from the intermediate tappet (4) and noise occurs.

Lifting also occurs when pumps with tappets of insufficient length (incorrect assignment) are installed.

#### Remedies

In the case of oil or deposits, the pump must be renewed. Cleaning has little point as, among other things, special tools are required and repair parts are not available.

In the case of incorrect assignment, the pump must be installed with the correct intermediate tappet.

### Complaint: New pump damaged

#### Causes:

Depending on the particular application, vacuum pumps are operated with varying strokes. Drive cam, intermediate tappet and pump tappet are appropriately dimensioned.

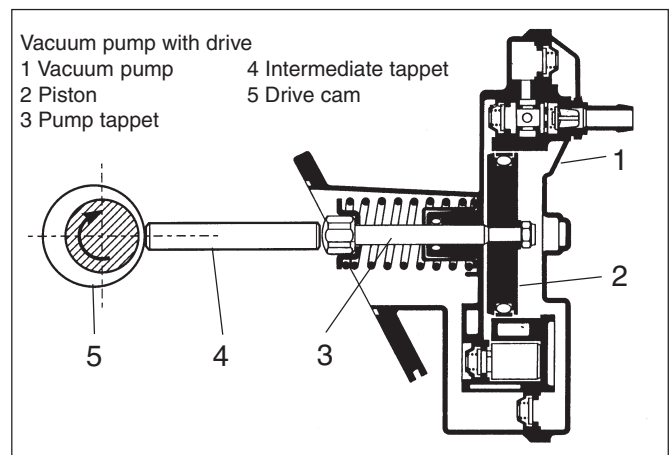
If this is not observed when changing a pump, e.g. a pump with longer pump tappet or a longer intermediate tappet is installed, the pump will be

damaged and engine damage can result.

**Remedy:** Avoid incorrect assignment.

### Important information for installation:

- Only use vacuum pump assigned to the vehicle.
- Inspect intermediate tappet and drive cam for wear and renew if necessary.
- Intermediate tappets are available in various lengths. Only use intermediate tappets assigned by the vehicle manufacturer.
- Only install vacuum pump with the cam lowered.
- Only use perfect engine oil



\*) The listed reference numbers should be used for comparison only. They may not be used on invoices sent to final users.