



Date: March 27, 2006
 Order No.: P-B-46.50/34
 Supersedes:
 Group: 46

Revision:

**SUBJECT: Model 211.026/065/070/265
 Parameter Steering Function Malfunctioning**

If you receive customer reports in the above model vehicles of parameter steering (speed-sensitive power steering) function malfunctioning, this may be due to the following causes:

1. Speed-sensitive power steering valve, electrical fault.
2. Electrical connection on parameter valve damaged or broken off.

As a result, the following fault codes may be stored in the ESP control unit:

- C1014 Y10 (SPS [PML] solenoid valve) electrical fault
- C1501 Y10 (SPS [PML] solenoid valve) line has discontinuity or short-circuit
- C16EF Y10 (SPS [PML] solenoid valve)

To resolve, exchange parameter valve as individual parts as per the below procedure.

i Note: It is not necessary to replace the entire rack-and-pinion steering system.

1. Remove steering gear, refer to the respective WIS document
 Model 211 [AR46.20-P-0600T](#)
2. Remove loose dirt from steering gear. Do not use any cleaning agents for this!

! Important! Please ensure that the utmost cleanliness is maintained at the work area during the following procedure!

3. Unscrew bolts (2) from parameter valve (1) (Figure 1).

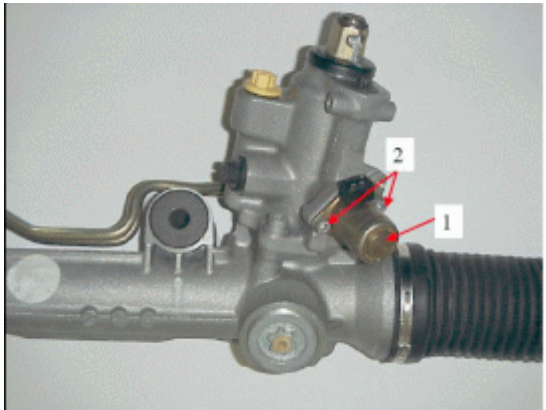


Figure 1 P-B-46.50/33

4. Exchange parameter valve (1). Ensure that the sealing ring is seated properly.
5. Screw in bolts (2) of parameter valve (1), observe torque (5Nm +/-0.3 Nm)
6. Install steering gear, refer to the respective WIS document as stated in Step 1

i Note: There are two versions of power steering high pressure lines. The preceding version has a slotted support ring, this can be replaced individually; in this case the complete power steering high pressure line must be replaced (see parts list).

7. Check steering for leaks
8. Check parameter function using the DAS, read out fault memory and erase if necessary
9. A toe adjustment after removing/installing the steering gear is no longer necessary according to the latest findings

| Parts Information | | |
|-------------------|--|----------------------|
| Qty. | Part Name | Part Number/Exchange |
| 1 | Pentosin – power steering fluid | BQ132 0001 |
| 1 | Support ring Required in addition for connection of high pressure line to steering gear for: Model 211 up to serial no. A939965 or X203560 If the support ring is damaged as of the above VIN, only the complete high pressure line can be replaced. The support ring can no longer be replaced individually. | A005 997 76 40 ** |
| 1 | Nut, steering coupling M8 | A140 990 09 58 ** |
| 1 | SPS valve repair kit The two mounting screws of the valve are included in the repair kit or the speed-sensitive power steering valve. The must be replaced at the same time. | A211 460 08 84 ** |
| 2 | Nut, tie rod M14 x 1.5 | N000000 003281 ** |
| 2 | Nut, tie rod M14 x 1.5 | N910113 014000 ** |
| 2 | Sealing ring for power steering –high/low-pressure line The sealing ring can be fitted retroactively on all power steering high pressure lines | A015 997 22 45 ** |

| | | |
|---|--|---------------------|
| | with support ring (slotted and non-slotted support ring) and on all power steering low-pressure lines. | |
| 2 | Nut, steering to integral carrier | N000 000 003 276 ** |

****Parts are in a critical supply situation and will be limited, please see the PAC weekly status report on parts availability status and delivery expectations. This report is located on the PAC website.**

i **Note:** The following allowable labor operations should be used when submitting a warranty claim for this repair.

In Case of Warranty

| Operation: Short test, perform (54-1011) Power steering gear box/steering rack, R&R (46-3400) Speed sensitive power steering P-valve, repl. (power steering gear box removed) (46-5178) | | | |
|--|-------------------------|--|--|
| Damage Code | Operation Number | Labor Time (hrs.) | Model Indicator(s) |
| 46438 73 | 54 1011 | 0.3 hrs. | AA, J2, M1, M4, M5, M6, M7, M8, M9, N1, N2, N3, N4, N5, P1, P2, P4, P5, P6, P7, P8, P9, Q1, Q2, R1, R2, R3, S1, S2, S3, S4, S6, T1, T2, T6, U1, X1, Y1, Y2 |
| | 46 3400 | 1.6 hrs. 2.4 hrs. 2.5 hrs. 2.6 hrs. 2.8 hrs. 2.9 hrs. 3.0 hrs. 3.2 hrs. 3.4 hrs. | T1, T2, T6, U1, Y1, Y2 AA X1 S1, S2, S3, S4, S6 P6, P7, P8, P9 M8, N4, R1, R2 M6, M7, R3 P1, P2, P4, P5, Q1, Q2 J2, M1, M4, M5, M9, N1, N2, N3, N5 |
| | 46 5178 | 0.2 hrs. | AA, J2, M1, M4, M5, M6, M7, M8, M9, N1, N2, N3, N4, N5, P1, P2, P4, P5, P6, P7, P8, P9, Q1, Q2, R1, R2, R3, S1, S2, S3, S4, S6, T1, T2, T6, U1, X1, Y1, Y2 |