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## Vehicle Jolt at Constant Speeds or During Gentle Acceleration When Torque Converter Clutch is Applied (P-B-27.20/78a, March 2, 2009)

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Topic number	LI27.20-P-046908
Version	1
Design group	27.20 Torque converter
Date	05-27-2009
Validity	Model 211.026/065/070/076/082/083/265/276/282/283 Equipped with 722.6 Transmission
Reason for change	

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### Complaint:

Vehicle Jolt at Constant Speeds or During Gentle Acceleration When Torque Converter Clutch changes from open to slipping state and vehicle mileage is > 40,000

### Cause:

N/A

### Remedy:

#### Diagnosis

1. Verify that the concern is no longer reproducible with the torque converter clutch deactivated, using SDS path: Control units -> Drive -> Transmission -> Diagnostic routines -> Switch off torque converter clutch.
2. On vehicles up to production 09/2003, verify there is no glycol present in the transmission oil by following the glycol test procedure in DTB P-B-27.55/50g or latest version.

After the above criteria have been confirmed, follow the steps below to flush the transmission oil and restore proper function to the torque converter clutch.

#### Remedy

1. Run the vehicle until the transmission oil temperature is up to 80° C (176° F) and have 14 liters of fresh transmission oil available (A001 989 45 03 13).
2. Drain the oil from the transmission and install a new transmission oil filter and pan gasket. Refer to WIS document AP27.00-P-2702i.
3. Fill transmission with 5 liters of fresh oil.
4. Detach the right side (passenger side) transmission cooler line from the transmission including the mounting bracket on engine.
5. Direct the flow of the cooler line into a bucket which has a 10 liter capacity and a measurement scale.
6. Start the engine and allow 3 liters of transmission oil to flow into the bucket from the cooler line.
7. Switch off the engine and replenish another 3 liters of fresh oil into the transmission.
8. Repeat steps 6 and 7.
9. Reconnect the cooler line to the transmission (replace the sealing ring) and reattach the mounting bracket as well.
10. Make a final oil level correction, clean any residual oil from the flushing process and check for leaks.

[i] Note: Improvements will become noticeable after about 60-120 miles of driving.

[i] Note: The following allowable labor operations should be used when submitting a warranty claim for this repair. This information has been generated on March 2, 2009. Please refer to Netstar -> Star TekInfo -> Star Time for the most current labor time allowance.

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A001 989 68 03			Automatic transmission oil	14		
A140 271 00 80			Pan Gasket	1		
A140 277 00 95			Transmission Filter	1		
N007603 0101 12			Sealing ring (drain screw)	1		
N007603 0141 02			Sealing ring (Banjo bolt, oil cooler line)	1		

Work units				
Op. no.	Operation text	Time	Damage code	Note
54-1011	SHORT TEST, PERFORM	0.3 hrs.	27551 D5	T1, T2, T3, T4, T5, T6, U1,U3, U4, U5
54-1012	TEST PROGRAM – AFTER SHORT TEST, PERFORM	0.5 hrs.		T1, T2, T3, T4, T5, T6, U1,U3, U4, U5
27-7030	AUTOMATIC TRANSMISSION OIL PAN, R&R / SEAL	1.2 hrs.		T1, T2, T3, T4, T5, T6, U1,U3, U4, U5
27-7080	OIL FILTER FOR AUTOMATIC TRANSMISSION REPLACE (WITH OIL PAN REMOVED)	0.1 hrs.		T1, T2, T3, T4, T5, T6, U1,U3, U4, U5
27-7150	TRANSMISSION OIL COOLER AND LINES, FLUSH	0.3 hrs. *		T1, T2, T3, T4, T5, T6, U1,U3, U4, U5 * to be claimed only one time