


ENGINE 112 in MODEL 202, 210, 203, 209, 211, 220, 129, 208, 163, 170
ENGINE 113 in MODEL 210, 220, 163, 208, 202, 215, 129, 230, 164, 211, 219, 209, 251, 203, 171
ENGINE 272 in MODEL 204, 203, 211, 209, 171, 211, 251, 221, 230, 219, 164
ENGINE 273 in MODEL 221, 164, 211, 219, 216, 221, 251, 230, 209

Damage code	Cause	Remedy	
83 525 36	Defective belt pulley or defective belt pulley bearing.	i If the source of the noise cannot be pinpointed, perform noise diagnosis following the diagnosis tree Noise in the Technology Guide for Vehicle Climate Control .	
	i On vehicles with frontal damage and damaged refrigerant compressor belt pulley: replace the refrigerant compressor.	i Continue with operation step 3 only in the case of noise complaints which are clearly caused by the bearing of the belt pulley, refrigerant compressor or belt drive.	
		With noise complaints occurring in conjunction with complaints regarding cooling output:	
		i It is essential to observe the following sequence of operation steps to eliminate noise complaints at the refrigerant compressor:	
		1 Perform "Cooling output test" function test in DAS.	
		2 Determine precise quantity of refrigerant in refrigeration circuit. i If noise complaints in conjunction with complaints regarding cooling output occur, the cause could be a low refrigerant level. Specification of the exact filling capacity when returning the parts is essential as it will help to determine the cause and to eliminate the fault in development and production. The filling capacity must be noted down together with the mechanic's inspection findings and enclosed with the returned parts. If the filling capacity is not specified, the warranty claim may be rejected.	
		3 Locate noise; when doing to, recreate conditions in which complaint occurred.	
		i Before the belt pulley at the refrigerant compressor is replaced, inspection must be carried out to eliminate the possibility that the following components in the belt drive are causing the noise (by means of a listening test): <ul style="list-style-type: none"> ● Alternator ● Power steering pump ● Water pump 	
		i If the noise is not caused by the refrigerant compressor: 4 Remove/install/replace only those components causing noise.	
		i If the noise (howling, rpm-dependent, occurring irrespective of whether the air conditioning system is ON or OFF) is clearly caused by the refrigerant compressor or the tensioner/guide pulleys: 5 Remove and check belt pulley as follows; to do so ↓ <ul style="list-style-type: none"> - Release tension on belt. - Remove belt from belt pulley on refrigerant compressor. - Fit shorter belt so that belt drive is driven without refrigerant compressor. - Perform listening test on engine running with short belt. 	

		6 Check whether tensioner/guide pulleys are causing noise; if so, remove/install/replace tensioner/guide pulleys.	
		 If the noise is no longer present: 7 Remove/install/replace refrigerant compressor belt pulley	SM83.55-P-0002A

Parts ordering notes

Part no.	Designation	Quantity
A 000 234 13 12	Belt pulley Ø 100 mm	1
A 000 234 14 12	Belt pulley Ø 110 mm	1
6516 2301 00 (German)	Ratgeber Technik: "Fahrzeugklimatisierung"	1
6516 2301 02 (English)	Technology Guide: Vehicle climate control	1
6516 2301 03 (French)	Information technique : Climatisation du véhicule	1
6516 2301 04 (Spanish)	Guía práctica técnica: Climatización del vehículo	1
6516 2301 06 (Italian)	Guida pratica: "Climatizzazione del veicolo"	1