

July 2005 Technical Service

This Service Information bulletin supersedes S.I. B11 04 03 dated July 2004.

designates changes to this revision

#### **SUBJECT**

Recurring Noise Complaints From Mechanical Alternator Belt Tensioners

#### MODEL

E39 5 Series and E36 Z3 with M54 engine through end of production

E60 5 Series and E83 X3 with the M54 engine through current production

E53 X5 through with the M54 engine through 05/04 production

E46 3 Series with the M54 engine through 5/04 production

# SITUATION

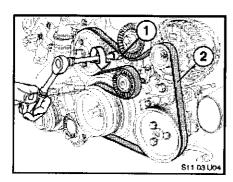
In certain instances, vehicles with mechanical alternator belt tensioners, that were previously replaced for a noise complaint, return to the workshop with a similar complaint.

### CORRECTION

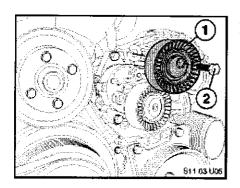
On a customer complaint basis, after the original mechanical belt tensioner in the vehicle has failed, replace only with the hydraulic style tensioner and install a new Ribbed V-Belt.

#### **PROCEDURE**

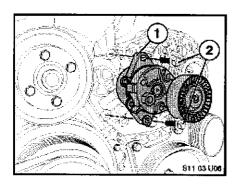
Perform preliminary alternator drive belt replacement steps as outlined in TIS repair instructions 11 28 010.



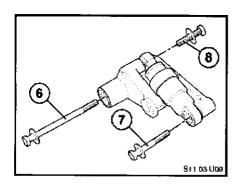
Relieve tension on the drive belt by rotating tensioner (1) in a clockwise direction. Remove alternator drive belt (2)



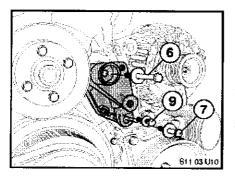
put aside.



Remove upper and lower mechanical belt tensioner bolts (2) and remove tensioner assembly (1)

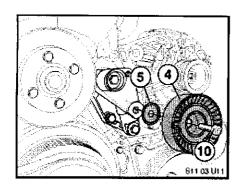


Assemble new tensioner components as shown. Install bolt 8 (P/N 07 11 9 913 111) in position shown. Insert bolt 6 (07 11 9 901 785) and 7 (07 11 9 912 652) in preparation for installation on engine.



Install the assembly on the engine. Note: Hydraulic tensioner is held in place by 3 bolts. Upper bolt 6 (07 11 9 901 785) lower bolt 7 (07 11 9 912 652) and left side bolt 9 (07 11 9 913 111)

Install tensioner pulley (4) taking care to position the mudguard (#5) correctly. The dished portion faces to



the front.

Reinstall upper deflection pulley and install new belt in reverse of removal instructions.

### PARTS INFORMATION

Part Number	Description	Quantity
11 28 1 437 475	Ribbed V-Belt	1
11 28 1 726 774	Base Plate	1
11 28 1 726 773	Pitman Arm	ł
11 28 1 748 131	Adjusting Pulley	1
07 11 9 920 150	Fillister Head Screw	1
11 28 1 717 188	Hydraulic Tensioner	1
07 11 9 913 111	Hex Bolt	2
07 11 9 912 652	Hex Bolt	1
07 11 9 901 785	Hex Bolt	1
11 28 1 440 369	Flat Washers	3
07 11 9 932 121	Wave Washers	1
11 28 1 727 159	Protection Cap – Pulley	1
12 31 1 713 143	Protection Cap – Pitman Arm	1
11 28 1 730 532	Mudguard	1

# **WARRANTY INFORMATION**

Covered under the terms of the BMW New Vehicle Limited Warranty.

Defect Code	11 28 01 39 00

Labor Operation: 11 28 020

Labor Allowance: Refer to appropriate KSD CD for

labor allowance