



This Service Information bulletin supersedes SI B07 02 14 **dated February 2015.**

NEW designates changes to this revision

SUBJECT

ISTA Premium Repair Instructions

MODEL

All

INFORMATION

ISPI NEXT ISTA 3.44 introduces a new concept for displaying repair instructions. The new repair instructions have the following advantages compared to the old style:

- All instructions (preliminary and follow-up) needed for the repair are included; hyperlinks are no longer needed.
- All special tools needed for the repair can be viewed or printed from one tab in ISTA without leaving the repair instructions page.
- All technical data and torque specs for the repair can be viewed from one tab in ISTA without leaving the repair instructions page.

NEW The most commonly used instructions have been converted to this new format (including repair instructions for the N63 Customer Care Package), and are now listed in the attachment to this Service Information. Use these instructions instead of the old format. They will save you time and ensure a better quality repair. The Premium Repair instructions can be found in ISTA using a text search for "Premium."

PREMIUM REPAIR INSTRUCTIONS

1. After searching for a specific repair instruction in ISTA, the new format (1) will be displayed along with the old format (2) in the search results. Only use the new format, since it contains the most current data.

Integrated Service Technical Application

VIN: XXXXXXXX Vehicle: 7/F01/Sedan/750i/N63/AUT/USA/left-hand drive/2011/03 KL 15: — KL 30: —

Identification Vehicle test Activities **Service plan**

Hit list Test plan

Flat Rate No	Type	Title	Status
Textsearch / Document number: 1131052			
1131052	REP	Replace both timing chains	☒
1131052	REP	Replacing both timing chains (N63)	☒

Hits: 2 / 2 Filter: Default ☐ Not called ☒ Performed ☐ Minimized ☐ Canceled ☒ Inspected

Back Filters Show completely

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- Once the repair instruction is opened, the first tab “Repair Instruction” (1) is automatically selected. The left-hand navigation window (2) and the right-hand full document display window (3) will display the beginning of the repair instruction.

Integrated Service Technical Application

VIN: XXXXXXX Vehicle: 7/F01/Sedan/750/N63/AUT/USA/left-hand drive/2011/03 KL 15: — KL 30: —

REP-REP-P-1131052-N63 - Replace both timing chains

Repair Instruction **1** Tightening Torques Special Tools Technical Data

Hints

Precondition

PRELIMINARY WORK

Move engine compartment lid into service position

Remove front struts

Remove front struts

Remove intake port on left and right

Drain off air conditioning system

Remove luggage compartment floor trim panel

Disconnect battery negative lead

1131052 Replace both timing chains

GENERAL REPAIR INSTRUCTION

Hints

CAUTION

Risk of burning when engine is hot.

Risk of scalding on the skin if engine has not cooled down sufficiently.

- Only perform this repair work after engine has cooled down.

Precondition

The ignition must be switched off.

PRELIMINARY WORK

1 - Move engine compartment lid into service position

HINT

A second person must hold the bonnet open until the special tool has

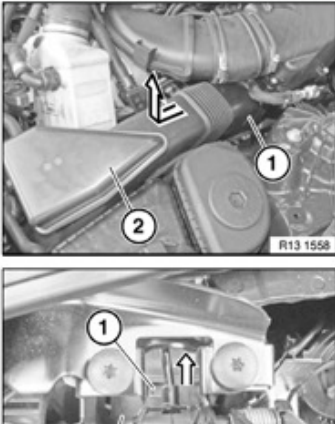
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3. Navigating to a particular step in the document can easily be done by selecting a bookmark (1) in the left-hand navigation box. The corresponding step will then be displayed in the right-hand document box (2).

Integrated Service Technical Application

VIN: XXXXXXX Vehicle: 7/F01/Sedan/750i/N63/AUT/USA/Left-hand drive/2011/03 KL 15: — KL 30: —

REP-REP-P-1131052-N63 - Replace both timing chains

Repair Instruction	Tightening Torques	Special Tools	Technical Data
Hints Precondition PRELIMINARY WORK Move engine compartment lid into service position Remove front strut tower brace on left and right Remove intake port on left and right Drain off air conditioning system Remove luggage compartment floor trim panel Disconnect battery negative lead			3 - Remove intake port on left and right HINT Description is for left component only. Procedure on the right side is identical.  - Press in latch mechanism (1). - Feed out intake duct (2) towards top. - Press in latch mechanism (1). - Detach intake port (2) towards rear and remove.

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4. Navigating through the document can also be done easily by scrolling (1) in the right-hand document box (2).

Integrated Service Technical Application

VIN: XXXXXXX Vehicle: 7/F01/Sedan/750/N63/AUT/USA/left-hand drive/2011/03 KL 15: — KL 30: —

REP-REP-P-1131052-N63 - Replace both timing chains

Repair Instruction	Tightening Torques	Special Tools	Technical Data
Installing the left cylinder head	78		
Installing intake and exhaust camshaft...	79		
Installing intake and exhaust camshaft...	80		
Installing timing case covers at the top right	81		
Installing timing case covers at the top left	82		
Installing both solenoid valves on the right	83		
Installing both solenoid valves on the left	84		
Adjusting camshaft timing on right side	85		

86 - Adjusting camshaft timing on left side

HINT

Attention! Risk of damage to timing drive! Loosen central bolt on the intake/exhaust camshaft adjusters with special tool 11 9 890 only. If users are unable to mount special tool 11 9 890, counter-hold the hexagon head of the respective camshaft.

Special tool 0496381 (11 9 893) on the intake camshaft and check the timing setting.

The timing has been adjusted correctly if special tool 0496381 (11 9 893) is in contact with the cylinder head and there are no gaps.

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5. All torque specifications needed during the repair can be easily found by selecting the “Tightening Torques” tab (1) and displayed on one page (2).

Integrated Service Technical Application

VIN: XXXXXXXX Vehicle: 7/F01/Sedan/750i/N63/AUT/USA/left-hand drive/2011/03 KL 15: — KL 30: —

REP-REP-P-1131052-N63 - Replace both timing chains

Repair Instruction Tightening Torques **1** Special Tools Technical Data

TIGHTENING TORQUES Usage in Process 33

Special tool 11 8 931 to crankcase

M8 20 Nm

M10 40 Nm

TIGHTENING TORQUES Usage in Process 38

Special tool 11 8 930 to special tool 00 2 300

M14 160 Nm

TIGHTENING TORQUES Usage in Process 42

Belt pulley to vibration damper

M10 40 Nm

TIGHTENING TORQUES Usage in Process 42 103

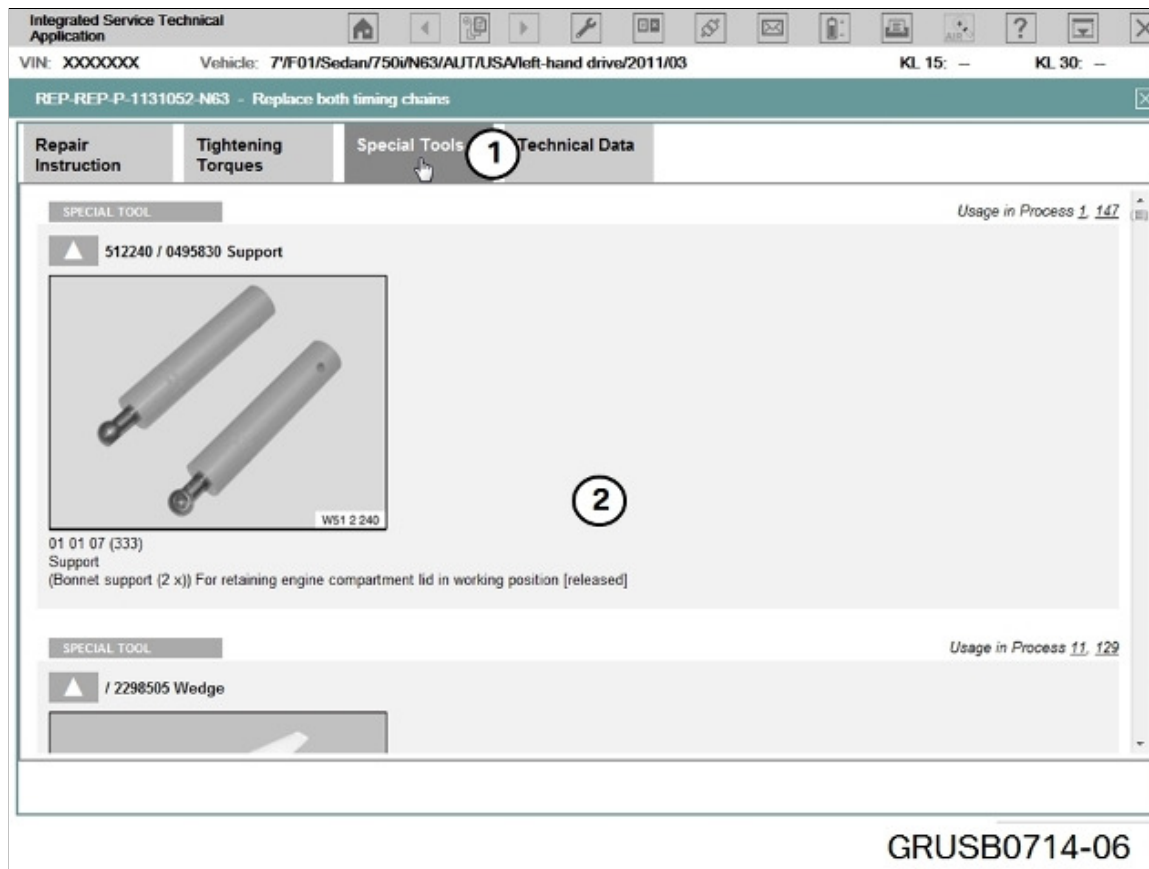
Belt tensioner with deflection pulley to crankcase

M10 40 Nm

2

GRUSB0714-05

6. All special tools needed during the repair can be easily found by selecting the “Special Tools” (1) tab and displayed on one page (2). This makes it easier to plan the repair in advance.



7. All applicable technical data referenced during the repair can be easily found by selecting the “Technical Data” (1) tab and displayed on one page (2).

Integrated Service Technical Application

VIN: XXXXXXX Vehicle: 7/F01/Sedan/750i/N63/AUT/USA/left-hand drive/2011/03 KL 15: — KL 30: —

REP-REP-P-1131052-N63 - Replace both timing chains

Repair Instruction Tightening Torques Special Tools **Technical Data 1**

TECHNICAL DATA Usage in Process 28

Distance from cross-member to facing 38 mm

TECHNICAL DATA Usage in Process 71, 72

Oil pump timing chain adjustment value 10 mm ... 12 mm

Pre-tension value mm

TECHNICAL DATA Usage in Process 75

Maximum lengthwise deviation from flatness 2 max. 0,10 mm

TECHNICAL DATA Usage in Process 75

Maximum transverse deviation from flatness max. 0,05 mm

TECHNICAL DATA Usage in Process 111

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Please use these repair instructions, when applicable, and provide feedback using the attached feedback form. The form can be sent directly to Paul Labrie at Paul.Labrie@bmwna.com.

Thanks for any feedback that you can provide.

Paul Labrie

Technical Service

201- 571-5247

ATTACHMENTS

View PDF attachment [B070214 Feedback Survey](#).

View PDF attachment [B070214 Attachment](#).

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