



This Service Information bulletin supersedes SI B07 02 14 **dated July 2014.**

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 listed below. Use these instructions instead of the old format. They will save you time and ensure a better quality repair. The Premium instructions can be found in ISTA with a text search for “Premium.”

1. 1131052 – Replace both timing chains\PREMIUM (N63)
2. 1166000 – Remove and install or replacing vacuum pump\PREMIUM (N63)
3. 1362561 – Removing and installing or replacing both air-mass meters\PREMIUM (N63)
4. 1371190 – Removing and installing/replacing left clean air pipe\PREMIUM (N63)
5. 1371195 – Removing and installing/replacing right clean air pipe\PREMIUM (N63)
6. 1165025 – Removing and installing/replacing right exhaust turbocharger, right\PREMIUM (N63)
7. 1165030 – Removing and installing/replacing left exhaust turbocharger\PREMIUM (N63)
8. 1115001 – Replacing all engine ventilation lines and connection lines\PREMIUM (N63)
9. 1353332 – Replacing fuel feed line\PREMIUM (N63)
10. 1353315 – Removing and installing or replacing all injectors in the fuel injection system\PREMIUM (N63)
11. 5116165 – E70 Completely remove and install the centre console\PREMIUM
12. 6451591 – E90 Removing and installing/renewing evaporator\PREMIUM
13. 1136046 – E90 Removing and installing or replacing intake and exhaust camshaft adjusters\PREMIUM (N55)
14. 1112100 – E90 Removing and install cylinder head\PREMIUM (N52)

PREMIUM REPAIR INSTRUCTIONS

1. **NEW** 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.

The screenshot displays the ISTA interface with the following elements:

- Header:** Integrated Service Technical Application, VIN: XXXXXXXX, Vehicle: 7/F01/Sedan/750i/N63/AUT/USA/left-hand drive/2011/03, KL 15: --, KL 30: --
- Navigation:** Identification, Vehicle test, Activities, Service plan
- Hit list:** Hit list, Test plan
- Search Results Table:**

Flat Rate No	Type	Title	Status
Textsearch / Document number: 1131052			
1131052	REP	Replace both timing chains	<input checked="" type="checkbox"/>
1131052	REP	Replacing both timing chains (N63)	<input checked="" type="checkbox"/>
- Footer:** Hits: 2 / 2, Filter: Default, Not called, Performed, Minimized, Canceled, Suspected, Back, Filters, Show completely, GRUSB0714-01

2. 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/750i/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 suspension brace on left side

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

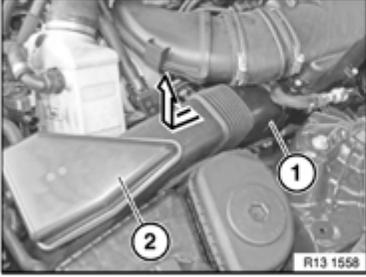
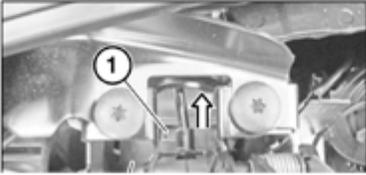
GRUSB0714-02

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: 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	Special Tools	Technical Data
<p>Hints</p> <p>Precondition</p> <p>PRELIMINARY WORK</p> <p>Move engine compartment lid into service position</p> <p>Remove front strut tower brace on left and right</p> <p>Remove intake port on left and right</p> <p>Drain off air conditioning system</p> <p>Remove luggage compartment floor trim panel</p> <p>Disconnect battery negative lead</p>			<p>3 - Remove intake port on left and right</p> <p>HINT</p> <p>Description is for left component only. Procedure on the right side is identical.</p> <p></p> <ul style="list-style-type: none"> Press in latch mechanism (1). Feed out intake duct (2) towards top. <p></p> <ul style="list-style-type: none"> Press in latch mechanism (1). Detach intake port (2) towards rear and remove.

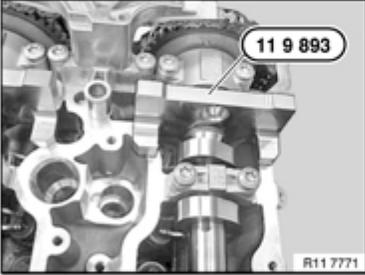
GRUSB0714-03

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/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
Installing the left cylinder head	78		  <ul style="list-style-type: none"> 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. <p>86 - Adjusting camshaft timing on left side</p> <p>HINT</p> <p>Attention! Risk of damage to timing drive! Loosen central bolt on the intake/exhaust camshaft adjusters with special tool 11 9 890 only if you are unable to mount special tool 11 9 890 counterhold the hexagon head of the respective camshaft</p>
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		

GRUSB0714-04

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).

The screenshot displays the ISTA software interface for a repair instruction. At the top, the title bar reads 'Integrated Service Technical Application'. Below it, the VIN is 'XXXXXXXX', the vehicle description is '7/F01/Sedan/750i/N63/AUT/USA/left-hand drive/2011/03', and the current step is 'REP-REP-P-1131052-N63 - Replace both timing chains'. The main content area has four tabs: 'Repair Instruction', 'Tightening Torques', 'Special Tools', and 'Technical Data'. The 'Special Tools' tab is selected and highlighted with a circled '1'. Below the tabs, there are four sections of 'TIGHTENING TORQUES' with associated torque values and usage in process. A circled '2' is placed over the 'Special Tools' tab area. The bottom right corner of the interface shows the code 'GRUSB0714-05'.

Section	Special Tool	Torque	Usage in Process
Special tool 11 8 931 to crankcase	M8	20 Nm	33
	M10	40 Nm	
Special tool 11 8 930 to special tool 00 2 300	M14	160 Nm	38
Belt pulley to vibration damper	M10	40 Nm	42
Belt tensioner with deflection pulley to crankcase	M10	40 Nm	42, 103

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.

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 | **1** Technical Data

SPECIAL TOOL Usage in Process **1**, 147

▲ 512240 / 0495830 Support



01 01 07 (333)
Support
(Bonnet support (2 x)) For retaining engine compartment lid in working position [released]

SPECIAL TOOL Usage in Process **11**, 129

▲ / 2298505 Wedge

GRUSB0714-06

The screenshot shows a software interface for technical data. At the top, there are navigation icons and a header with 'Integrated Service Technical Application'. Below that, vehicle information is displayed: 'VIN: XXXXXXX', 'Vehicle: 7/F01/Sedan/750i/N63/AUT/USA/left-hand drive/2011/03', and 'KL 15: -- KL 30: --'. A green bar contains the repair task: 'REP-REP-P-1131052-N63 - Replace both timing chains'. A menu bar has four tabs: 'Repair Instruction', 'Tightening Torques', 'Special Tools', and 'Technical Data'. The 'Technical Data' tab is selected and highlighted with a circled '1'. The main content area shows a list of 'SPECIAL TOOL' items. The first item is '512240 / 0495830 Support', with a circled '2' next to it. It includes an image of two cylindrical tools and a description: '01 01 07 (333) Support (Bonnet support (2 x)) For retaining engine compartment lid in working position [released]'. The second item is partially visible: '/ 2298505 Wedge'. On the right side of the content area, there are two 'Usage in Process' indicators: 'Usage in Process 1, 147' and 'Usage in Process 11, 129'. At the bottom right of the interface, the code 'GRUSB0714-06' is displayed.

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: 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 | 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
Pre-tension value 10 mm ... 12 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

GRUSB0714-07

NEW 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](#).

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