SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-15EXML22-501	DATE : 2015-09-04
SUBJECT : Error in writing of the name of the special tool MD998821		<DESTINATION/MODEL> (As per attached sheet 1) <M/Y> 13-15.5
GROUP : Gr:22(Manual transmission)		Mirage/Space Star(A00A) Attrage(A10A)

1. Description :

Please refer to the attached document for the correction of the error in writing existing in the applicable service manual.
(Wrong) Installer adapter(48)
(Correct) Installer adapter(44)

2. Affected service manuals :

Please refer to the attached document (Attached sheet 1)

3. About the details :

Please refer to the attached document (Attached sheets 2-5)

Attached sheet 1 (1/3)

For overseas market

<EU>

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2013 SPACE STAR Workshop manual	CA0E13E1-CD (ENG) CA0F13E1-CD (FRE) CA0G13E1-CD (GER) CA0S13E1-CD (SPA) CA0I13E1-CD (ITA)	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2014 SPACE STAR Workshop manual	CA0E14E1-CD (ENG) CA0F14E1-CD (FRE) CA0G14E1-CD (GER) CA0S14E1-CD (SPA) CA0I14E1-CD (ITA)	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2015 SPACE STAR Workshop manual	CA0E15E1-CD (ENG) CA0F15E1-CD (FRE) CA0G15E1-CD (GER) CA0S15E1-CD (SPA) CA0I15E1-CD (ITA)	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-69600-01)	Attached sheet 3
2015.5 SPACE STAR Workshop manual	CA0E15E2-CD (ENG) CA0F15E2-CD (FRE) CA0G15E2-CD (GER) CA0S15E2-CD (SPA) CA0I15E2-CD (ITA)	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-69600-01)	Attached sheet 3
2014 ATTRAGE Workshop manual	CA1E14E1-CD (ENG) CA1F14E1-CD (FRE) CA1G14E1-CD (GER) CA1S14E1-CD (SPA) CA1I14E1-CD (ITA)	Special tool (M222-00-061-17302-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 4
2015 ATTRAGE Workshop manual	CA1E15E1-CD (ENG) CA1F15E1-CD (FRE) CA1G15E1-CD (GER) CA1S15E1-CD (SPA) CA1I15E1-CD (ITA)	Special tool (M222-00-061-17302-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 4
2015.5 ATTRAGE Workshop manual	CA1E15E2-CD (ENG) CA1F15E2-CD (FRE) CA1G15E2-CD (GER)	Special tool (M222-00-061-17302-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 4

Attached sheet 1 (2/3)

<GENERAL EXPORT/GCC/ASEAN/ARGENTINA/PHILIPPINE/CHILE/SOUTH AFRICA>

Applicable manual	Pub. No.	Applicable title (INFO ID)	Content
2013 MIRAGE Workshop manual	<Except PHILIPPINE> PWFE1201R <PHILIPPINE> PWFE1201RP ARGENTINA/CHILE/ SOUTH AFRICA:DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2014 MIRAGE Workshop manual	PWFE1301R (ENG) PWFS1302R (SPA) ARGENTINA/CHILE/ SOUTH AFRICA/PHILIPPINE :DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2015 MIRAGE Workshop manual	PWFE1405R (ENG) PWFS1406R (SPA) ARGENTINA/CHILE/ SOUTH AFRICA/PHILIPPINE :DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2014 ATTRAGE/MIRAGE G4 Workshop manual	<Except PHILIPPINE> PWFE1305R (ENG) PWFS1306R(SPA) <PHILIPPINE> PWFE1305RA ARGENTINA/CHILE/ SOUTH AFRICA :DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2015 ATTRAGE/MIRAGE G4 Workshop manual	PWFE1410R (ENG) PWFS1411R (SPA) ARGENTINA/CHILE/ SOUTH AFRICA/PHILIPPINE :DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2

<AUSTRALIA/NEW ZEALAND>

Applicable manual	Pub. No.	Applicable title (INFO ID)	Content
2014 MIRAGE Workshop manual	<MMAL> AU900305 <NZ> DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2015 MIRAGE Workshop manual	<MMAL> AU900425 <NZ> DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2015 ATTRAGE Workshop manual	<MMAL> AU900435 <NZ> DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2

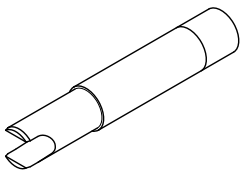
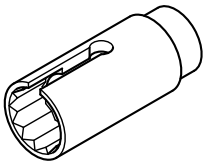
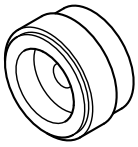
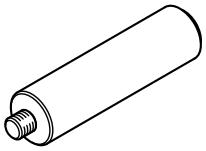
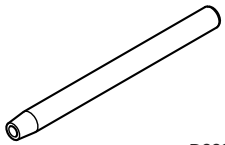
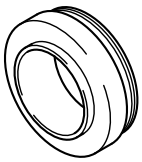
Attached sheet 1 (3/3)

<THAILAND>

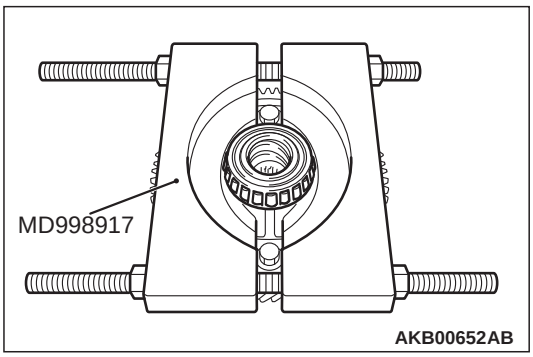
Applicable manual	Pub. No.	Applicable title (INFO ID)	Content
2013 MIRAGE Workshop manual	DRAFT	Special tool (M222-00-061-17300-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2015 MIRAGE Workshop manual	DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2014 ATTRAGE/MIRAGE G4 Workshop manual	DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2
2015 ATTRAGE/MIRAGE G4 Workshop manual	DRAFT	Special tool (M222-00-061-17301-01) Differential disassembly and reassembly (M222-00-250-65200-01)	Attached sheet 2

<MMNA>

Applicable manual	Pub. No.	Applicable title (INFO ID)	Content
2014 MIRAGE Service manual	MSCD-016B-2014	Special tool(s) (M222-00-061-20300-01) Differential disassembly and reassembly (M222-00-250-70400-01)	Attached sheet 5
2015 MIRAGE Service manual	MSCD-016B-2015	Special tool(s) (M222-00-061-20300-01) Differential disassembly and reassembly (M222-00-250-70400-01)	Attached sheet 5

Tool	Number	Name	Use
	MB992038	Preload socket	• Measurement of differential side bearing preload • Measurement of output shaft assembly bearing preload
	MD998773	Detonation sensor wrench	Installation and removal of speed sensor and neutral start switch assembly
 B992873	MB992873	Installer oil seal	Installation of differential oil seal
	MB992075	Handle	
	MD998825	Installer adapter (52)	Installation of speedometer drive gear
 D998245	MD998245	Installer lock pin	Slotted spring pin
	MD998821	Installer adapter (48) <Incorrect> <Correct> 44	Installation of differential bearing

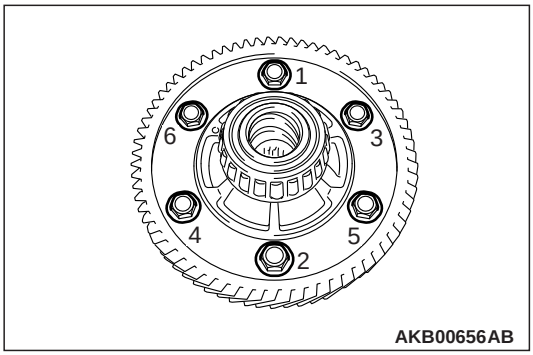
TSB Revision



<<C>> TAPERED ROLLER BEARING REMOVAL {Rc}

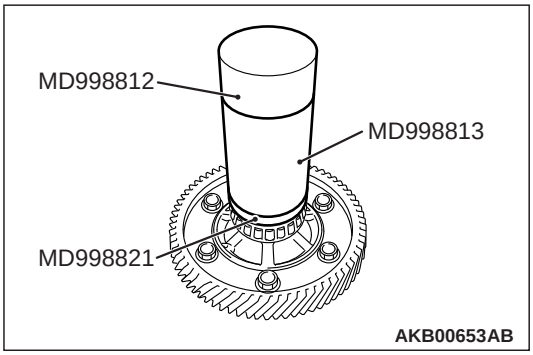
1. Using special tool bearing remover (MD998917), support the tapered roller bearing, and then set them on the press.
2. Push down on the differential case with the press and remove the tapered roller bearing.

REASSEMBLY SERVICE POINTS {A3}



>>A<< RING GEAR INSTALLATION {Ia}

1. Tighten to the specified torque of 124 ± 7 N·m in the illustrated sequence.

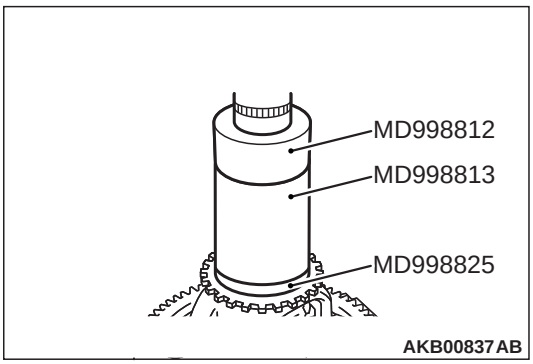


>>B<< TAPERED ROLLER BEARING INSTALLATION {Ib}

Using special tools, install the tapered roller bearing.

- Installer cap (MD998812)
- Installer-100 (MD998813)
- Installer adapter (48) (MD998821)

<Incorrect> 48
<Correct> 44



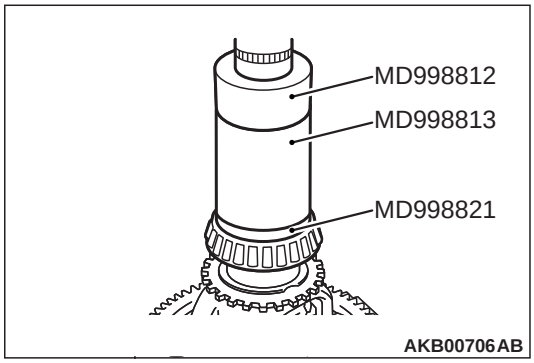
>>C<< SPEEDOMETER DRIVE GEAR INSTALLATION {Ic}

Using special tools, install the speedometer drive gear.

- Installer cap (MD998812)
- Installer-100 (MD998813)
- Installer adapter (52) (MD998825)

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Attached sheet 2 (3/3)



>>D<< TAPERED ROLLER BEARING INSTALLATION {id}

Using special tools, install the tapered roller bearing.

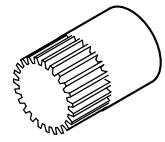
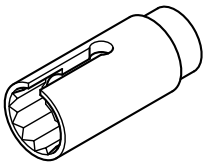
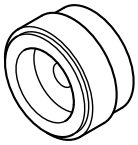
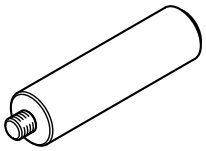
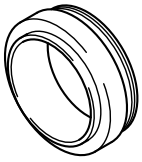
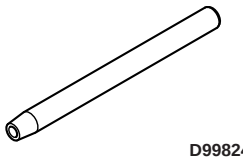
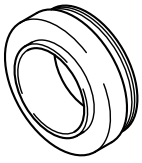
- Installer cap (MD998812)
- Installer-100 (MD998813)
- Installer adapter (48) (MD998821)

<Incorrect> 48

<Correct> 44

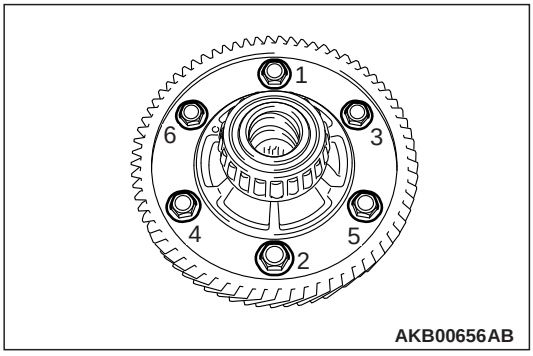
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Attached sheet 3 (1/2)

Tool	Number	Name	Use
 MB991144	MB991144	Side gear holding tool	• Measurement of differential side bearing preload • Measurement of output shaft assembly bearing preload
	MD998773	Detonation sensor wrench	Installation and removal of speed sensor and neutral start switch assembly
 B992873	MB992873	Installer oil seal	Installation of differential oil seal
	MB992075	Handle	
	MD998825	Installer adapter (52)	Installation of speedometer drive gear
 D998245	MD998245	Installer lock pin	Slotted spring pin
	MD998821	Installer adapter (48) <Incorrect> <Correct> 44	Installation of differential bearing

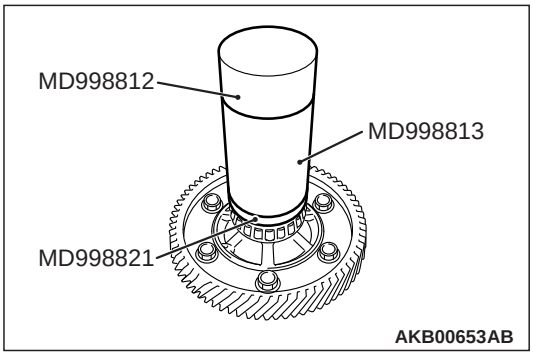
TSB Revision

REASSEMBLY SERVICE POINTS {A3}



>>A<< RING GEAR INSTALLATION {Ia}

1. Tighten to the specified torque of 124 ± 7 N·m in the illustrated sequence.

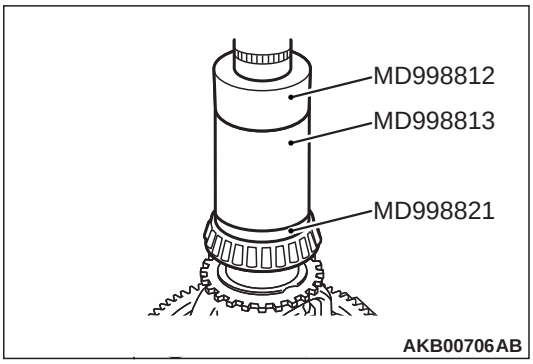


>>B<< TAPERED ROLLER BEARING INSTALLATION {Ib}

Using special tools, install the tapered roller bearing.

- Installer cap (MD998812)
- Installer-100 (MD998813)
- Installer adapter (48) (MD998821)

<Incorrect>
<Correct> 44



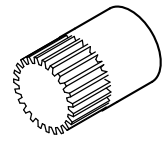
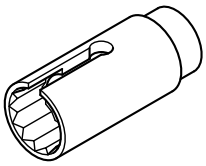
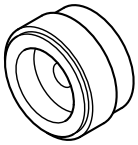
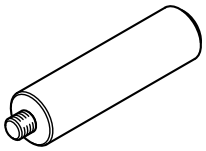
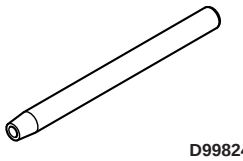
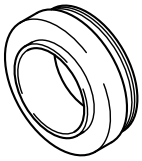
>>C<< TAPERED ROLLER BEARING INSTALLATION {Ic}

Using special tools, install the tapered roller bearing.

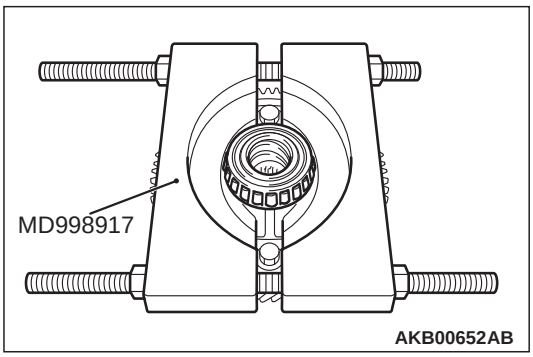
- Installer cap (MD998812)
- Installer-100 (MD998813)
- Installer adapter (48) (MD998821)

<Incorrect>
<Correct> 44

TSB Revision

Tool	Number	Name	Use
 MB991144	MB991144	Side gear holding tool	• Measurement of differential side bearing preload • Measurement of output shaft assembly bearing preload
	MD998773	Detonation sensor wrench	Installation and removal of speed sensor and neutral start switch assembly
 B992873	MB992873	Installer oil seal	Installation of differential oil seal
	MB992075	Handle	
	MD998825	Installer adapter (52)	Installation of speedometer drive gear
 D998245	MD998245	Installer lock pin	Slotted spring pin
	MD998821	Installer adapter (~~48~~) <Incorrect> <Correct> 44	Installation of differential bearing

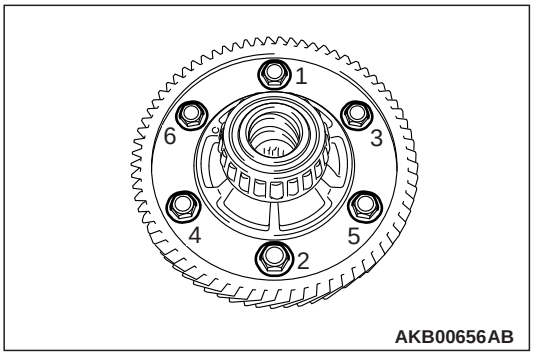
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<<C>> TAPERED ROLLER BEARING REMOVAL {Rc}

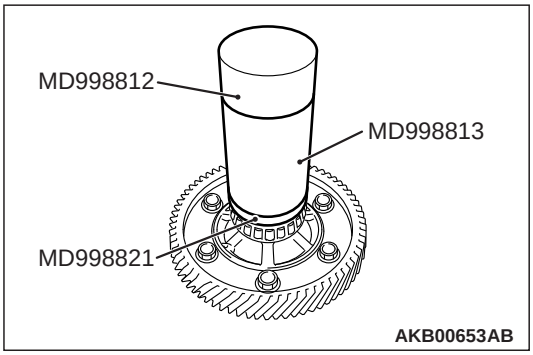
1. Using special tool bearing remover (MD998917), support the tapered roller bearing, and then set them on the press.
2. Push down on the differential case with the press and remove the tapered roller bearing.

REASSEMBLY SERVICE POINTS {A3}



>>A<< RING GEAR INSTALLATION {Ia}

1. Tighten to the specified torque of 124 ± 7 N·m in the illustrated sequence.

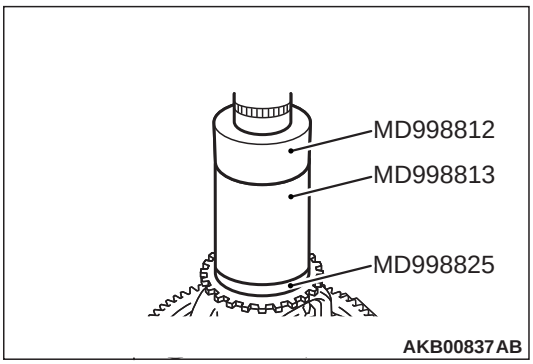


>>B<< TAPERED ROLLER BEARING INSTALLATION {Ib}

Using special tools, install the tapered roller bearing.

- Installer cap (MD998812)
- Installer-100 (MD998813)
- Installer adapter (48) (MD998821)

<Incorrect> 48
<Correct> 44



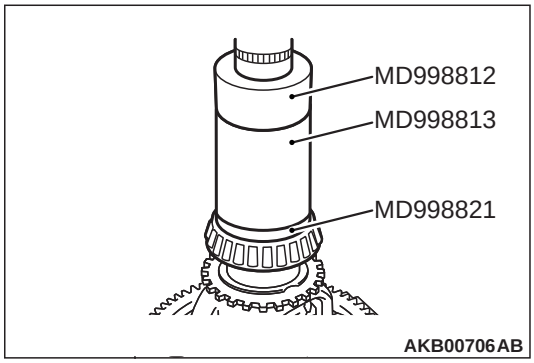
>>C<< SPEEDOMETER DRIVE GEAR INSTALLATION {Ic}

Using special tools, install the speedometer drive gear.

- Installer cap (MD998812)
- Installer-100 (MD998813)
- Installer adapter (52) (MD998825)

TSB Revision

Attached sheet 4 (3/3)



>>D<< TAPERED ROLLER BEARING INSTALLATION {id}

Using special tools, install the tapered roller bearing.

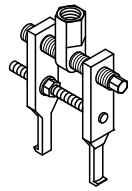
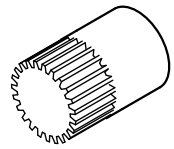
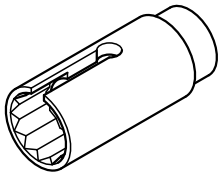
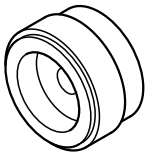
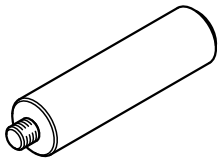
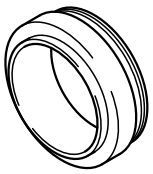
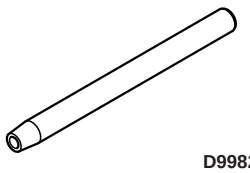
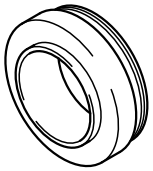
- Installer cap (MD998812)
- Installer-100 (MD998813)
- Installer adapter (48) (MD998821)

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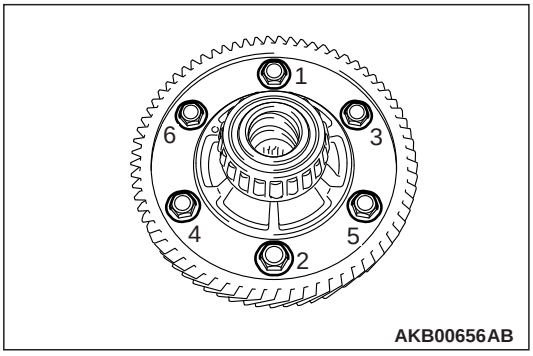
TSB Revision

Attached sheet 5 (1/2)

Tool	Tool number and name	Supersession	Application
	MB992039 Slide hammer puller	MB992039-01	• Remove of cylindrical roller bearing (outer race) • Remove of tapered roller bearing outer race
 MB991144	MB991144 Side gear holding tool	–	• Measurement of differential side bearing preload • Measurement of output shaft assembly bearing preload
	MD998773 Knock sensor wrench	MD998773-01	Installation and removal of speed sensor and neutral start switch assembly
 B992873	MB992873 Installer oil seal	–	Installation of differential oil seal
	MB992075 Handle	–	
	MD998825 Installer adapter (52)	–	Installation of speedometer drive gear
 D998245	MD998245 Installer lock pin	–	Slotted spring pin
	MD998821 Installer adapter (~~48~~) <Incorrect> 44 <Correct>	–	Installation of differential bearing

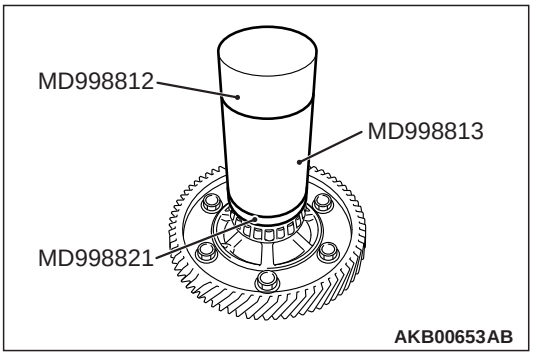
TSB Revision

REASSEMBLY SERVICE POINTS {A3}



>>A<< RING GEAR INSTALLATION {Ia}

1. Tighten to the specified torque of 124 ± 7 N·m (91 ± 5ft-lb) in the illustrated sequence.

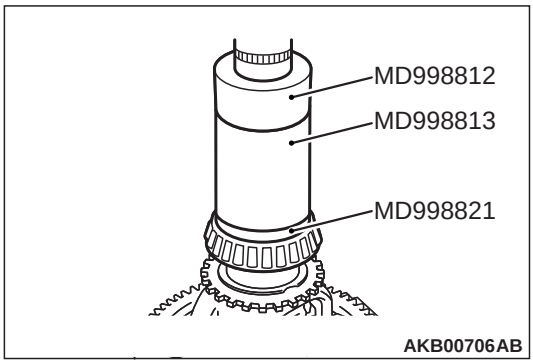


>>B<< TAPERED ROLLER BEARING INSTALLATION {Ib}

Using special tools, install the tapered roller bearing.

- Installer cap (MD998812)
- Installer-100 (MD998813)
- Installer adapter (48) (MD998821)

<Incorrect>
<Correct> 44



>>C<< TAPERED ROLLER BEARING INSTALLATION {Ic}

Using special tools, install the tapered roller bearing.

- Installer cap (MD998812)
- Installer-100 (MD998813)
- Installer adapter (48) (MD998821)

<Incorrect>
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TSB Revision