



# Technical Service Bulletin

SUBJECT:			No: <b>TSB-19-37-002</b>
<b>UPDATES TO TIE ROD END BALL JOINT DUST COVER REPLACEMENT - SMR</b>			DATE: <b>February 2019</b>
			MODEL: <b>See below</b>
<b>CIRCULATE TO:</b>	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

## PURPOSE

This TSB updates the Steering section of the affected Service Manuals to update the lubricant, sealant, special tools, and procedures used in replacement of the Tie Rod End Ball Joint Dust Cover, which are now serviceable parts, for vehicles with electric power steering.

## AFFECTED VEHICLES

- 2011 - 2016 Lancer with Electric Power Steering
- 2011 - 2016 Lancer Sportback with Electric Power Steering

## AFFECTED SERVICE MANUALS

- 2011 - 2016 Lancer Service Manual, Group 37-Steering
- 2011 - 2016 Lancer Sportback Service Manual, Group 37-Steering



Please make the indicated changes below to the 2011 - 2015 Lancer and Lancer Sportback Service Manuals, Group 37-Steering -> 37B-Electric Power Steering (EPS) -> Lubricants:

**LUBRICANT**

Item	Specified lubricant	Quantity	
Tie rod end ball joint dust cover	Multipurpose grease SAE J310, NLGI No.2 or equivalent	Inside of dust cover	5.0 ± 1.0 g (0.18 ± 0.04 oz)
		Lip	As required

<Added>

Please make the indicated changes below to the 2016 Lancer and Lancer Sportback Service Manuals, Group 37-Steering -> 37B-Electric Power Steering (EPS) -> Lubricants:

**LUBRICANT**

Item	Specified lubricant	Quantity
Bellows	Silicone grease	As required
Tie rod end ball joint dust cover	Multipurpose grease SAE J310, NLGI No.2 or equivalent	<del>5.0 ± 1.0 g (0.18 ± 0.04 oz)</del>

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Inside of dust cover	5.0 ± 1.0 g (0.18 ± 0.04 oz)
Lip	As required

<Correct>

Please make the indicated changes below to the 2011 - 2016 Lancer and Lancer Sportback Service Manuals, Group 37-Steering -> 37B-Electric Power Steering (EPS) -> Sealant:


**SEALANT**

Item	Specified sealant	Quantity
Tie rod end ball joint dust cover	Three bond 1215 or equivalent	As required

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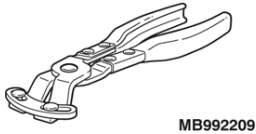
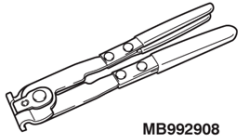

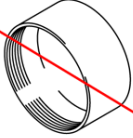


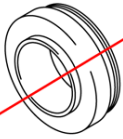

Please make the indicated changes below to the 2011 - 2015 Lancer and Lancer Sportback Service Manuals, Group 37-Steering -> 37B-Electric Power Steering (EPS) -> Special Tools:

**SPECIAL TOOLS**

Tool	Tool number and name	Supersession	Application
 MB990776	MB990776 Front axle base	MB990776-01	Dust cover installation

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Please make the indicated changes below to the 2016 Lancer and Lancer Sportback Service Manuals, Group 37-Steering -> 37B-Electric Power Steering (EPS) -> Special Tools:

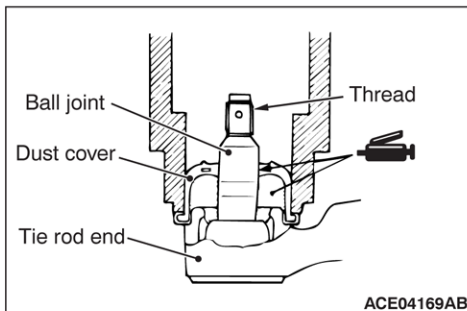
Tool	Tool number and name	Supersession	Application
	MB992209 Bellows band crimping tool	MB992209	Bellows band installation
	MB992908 Bellows band crimping tool	MB992908	
	MB992249 Variable spanner	MB992249	Tie-rod removal and installation
	MD998812	Cap installer	Tie-rod end ball joint cover installation
	MD998813	Installer 100	
	MD998818	Installer adapter	
	MD998820	Installer adapter	
	MB990776 Front axle base	MB990776-01	Dust cover installation

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Please make the indicated changes below to the 2011 - 2015 Lancer and Lancer Sportback Service Manuals, Group 37-Steering -> 37B-Electric Power Steering (EPS) -> Power Steering Gear Box and Linkage, below "Disassembly and Reassembly":

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## TIE ROD END BALL JOINT DUST COVER REPLACEMENT

### Required Special Tools:

- MB990776: Front axle base

If the dust cover is damaged accidentally during service work, replace the dust cover as follows:

1. Fill and apply the specified grease into the inside and lip of the dust cover.

*NOTE: Wipe off the grease on the ball joint so that the amount of grease inside the dust cover does not exceed the total amount.*

**Specified grease: Multipurpose grease SAE J310, NLGI No.2 or equivalent**

**Usage (Total amount):**

**Inside of dust cover:  $5.0 \pm 1.0$  g ( $0.18 \pm 0.04$  oz)**

**Lip: As required.**

2. Apply the specified sealant to the dust cover mounting surface at the tie rod end.

**Semi-drying sealant: ThreeBond 1215 or equivalent**

**Application amount: As required.**

3. Drive in the dust cover with special tool front axle base (MB990776) until it is fully seated.

*NOTE:*

- *There should be no grease on the thread of the ball joint.*
- *There should be no clearance between the dust cover and the tie rod end.*

4. Check the dust cover for cracks or damage by pushing it with your finger.

Please make the indicated changes below to the 2016 Lancer and Lancer Sportback Service Manuals, Group 37-Steering -> 37B-Electric Power Steering (EPS) -> Power Steering Gear Box and Linkage, below "Disassembly and Reassembly":

## TIE ROD END BALL JOINT DUST COVER REPLACEMENT

### CAUTION

If the tie rod end ball joint dust cover is damaged accidentally during service work, replace the tie rod end ball joint dust cover as follows:

1. Fill and apply the specified grease into the inside and lip of the tie rod end ball joint dust cover.

- **Specified grease: Multipurpose grease SAE J310, NLGI No.2 or equivalent**
- **Usage: 5.0 ± 1.0 g (0.20 ± 0.04 oz)**

*NOTE: Wipe off the grease on the ball joint so that the amount of grease inside the tie rod end ball joint dust cover does not exceed the total amount.*

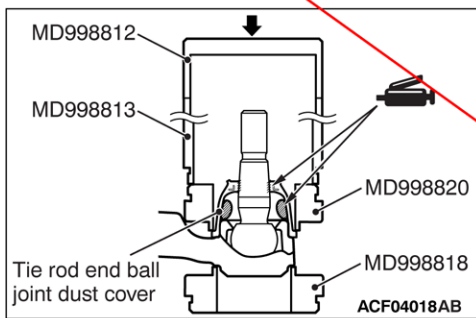
2. Use the following special tools to press-fit the tie rod end ball joint dust cover into the tie rod end.

- Cap installer (MD998812)
- Installer 100 (MD998813)
- Installer adapter (MD998818)
- Installer adapter (MD998820)

### NOTE:

- *There should be no grease on the thread of the ball joint.*
- *There should be no clearance between the tie rod end ball joint dust cover and the tie rod end.*

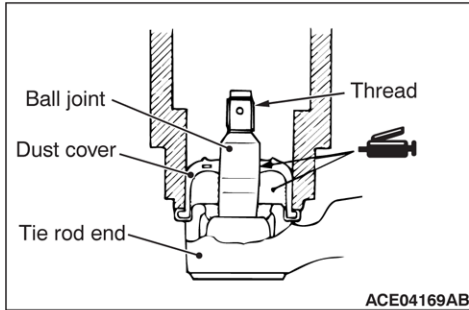
3. Check the tie rod end ball joint dust cover for cracks or damage by pushing it with your finger.



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## TIE ROD END BALL JOINT DUST COVER REPLACEMENT

### Required Special Tools:

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1. Fill and apply the specified grease into the inside and lip of the dust cover.

*NOTE: Wipe off the grease on the ball joint so that the amount of grease inside the dust cover does not exceed the total amount.*

**Specified grease: Multipurpose grease SAE J310, NLGI No.2 or equivalent**

**Usage (Total amount):**

**Inside of dust cover:  $5.0 \pm 1.0$  g ( $0.18 \pm 0.04$  oz)**

**Lip: As required.**

2. Apply the specified sealant to the dust cover mounting surface at the tie rod end.

**Semi-drying sealant: ThreeBond 1215 or equivalent**

**Application amount: As required.**

3. Drive in the dust cover with special tool front axle base (MB990776) until it is fully seated.

*NOTE:*

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