



# Technical Service Bulletin

SUBJECT:			No: <b>TSB-19-33-003</b>
<b>UPDATES TO LOWER ARM BALL JOINT DUST COVER REPLACEMENT - SERVICE MANUAL REVISION</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 Front Suspension section of the affected Service Manuals to update the check and replacement procedures of the Lower Arm Ball Joint Dust Cover.

## AFFECTED VEHICLES

- 2014 - 2018 Mirage
- 2017 - 2018 Mirage G4

## AFFECTED SERVICE MANUALS

- 2014 - 2018 Mirage Service Manual, Group 33-Front Suspension
- 2017 - 2018 Mirage G4 Service Manual, Group 33-Front Suspension



Please make the indicated changes below to the 2014, 2015, 2017 Mirage and 2017 Mirage G4 Service Manual, Group 33-Front Suspension -> Lubricant (add below "Fastener Tightening Specifications").

<Added>



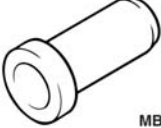
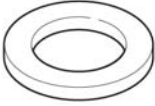

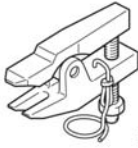

## LUBRICANT

M1332000400497

Item	Specified lubricant	Quantity
Inside and lip of lower arm ball joint dust cover	Multipurpose grease SAE J310, NLGI No.2 or equivalent	Inside of dust cover : $4.0 \pm 0.5$ g ( $0.14 \pm 0.02$ oz) Lip: As required

Please make the indicated changes below to the 2014, 2015, 2017 Mirage, and 2017 Mirage G4 Service Manual, Group 33-Front Suspension -> Special Tools.

**FRONT SUSPENSION  
SPECIAL TOOLS**

Tool	Tool number and name	Supersession	Application
 MB990800	MB990800 Ball joint remover and installer	MB990800-01or General service tool	Removal of lower arm bushing
 MB991389	MB991389 Bush remover base	–	Removal of lower arm bushing
 MB990727	MD998375 Crankshaft front oil seal installer	–	Press-fit of lower arm bushing
	MB992868 Base spacer	–	
	MB990643 Base	–	
 B991113	Steering linkage puller	–	Disconnection of knuckle and ball joint
	MB991172 Inner shaft installer base	–	Press-fit of lower arm ball joint dust cover

<Added>

Please make the indicated changes below to the 2014, 2015, 2017, 2018 Mirage, and 2017 & 2018 Mirage G4 Service Manual, Group 33-Front Suspension -> On-Vehicle Service -> Lower Arm Ball Joint Dust Cover Check.

<Added>

### LOWER ARM BALL JOINT DUST COVER CHECK

M1332008601238

1. Press the lower arm ball joint dust cover with your finger to check that there are no cracks or damage in the lower arm ball joint cover. <Old>

~~2. If the lower arm ball joint dust cover is cracked or damaged, replace the lower arm assembly.~~

~~*NOTE: If the lower arm ball joint dust cover is cracked or damaged, it is possible that there may also be damage to the ball joint. If the dust cover is damaged during the maintenance replace it.*~~

<New>

2. If the lower arm ball joint dust cover is cracked or damaged, replace the lower arm assembly or the dust cover.  
• Lower arm assembly (Refer to GROUP 33, Lower Arm Removal and Installation)

**⚠ CAUTION**

**If the leakage of the grease from the cracked or damaged dust cover, or the sign of the leakage is found, replace the lower arm assembly.**

• Dust cover (**Refer to next page**) 

Note: If the dust cover is cracked or damaged, it is possible that there may also be damage to the ball joint.

Please make the indicated changes below to the 2014, 2015, 2017, 2018 Mirage, and 2017 & 2018 Mirage G4 Service Manual, Group 33-Front Suspension -> Lower Arm -> Lower Arm Ball Joint Dust Cover Replacement.

- The "<Added>" information below (inside red box) is added to 2014, 2015, 2017 Mirage and 2017 Mirage G4, below "Lower Arm Rear Bushing Replacement."
- The "<New>" text in blue box is updated information for 2018 Mirage and Mirage G4.

<Added> (to 2014 - 2017 Mirage, 2017 Mirage G4)

## LOWER ARM BALL JOINT DUST COVER REPLACEMENT

M1332008200527

**Required Special Tool:**

- MB991172: Inner shaft installer base <Old>

Only when the dust cover is damaged accidentally during maintenance, replace the dust cover as follows.

1. Remove the dust cover.
2. 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:**  
**Inside of dust cover: 4.0 ± 0.5 g (0.14 ± 0.02 oz), Lip: As required**

3. Use the special tool inner shaft installer base (MB991172) to drive in the dust cover to the point where it contact with the lower arm assembly.

*NOTE:*

- Make sure that the dust cover lip portion is not damaged by the thread face of the ball joint.
- Make sure that there is no grease on thread face and tapered portion of the ball joint.
- There should be no clearance between the dust cover and the lower arm assembly.

4. Using your fingers, press the dust cover to check for a crack or damage.

<New>

**CAUTION**

If the leakage of the grease from the cracked or damaged dust cover, or the sign of the leakage is found, replace the lower arm assembly (Refer to GROUP 33, Lower Arm Removal and Installation). Replace the dust cover as follows:

ACG00140AC