



Technical Service Bulletin

SUBJECT:		No: TSB-19-33-006	
CORRECTION TO TOE-IN VALUE OF FRONT WHEEL ALIGNMENT - SMR		DATE: July 2019	
		MODEL: 2018-19 Eclipse Cross	
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

PURPOSE

This TSB updates the Front Suspension section of the affected Service Manuals, to correct the toe-in value for the front wheel alignment check and adjustment procedure.

AFFECTED VEHICLES

- 2018 - 2019 Eclipse Cross

AFFECTED SERVICE MANUAL

- 2018 - 2019 Eclipse Cross Service Manual, Group 33-Front Suspension



Please make the indicated changes to the 2018 - 2019 Eclipse Cross Service Manual, Group 33-Front Suspension -> Service Specifications.

SERVICE SPECIFICATIONS

M1332000302634

Item	Standard value
Toe-in <Deleted>	At the center of tire tread [mm (in)] $1 \pm 2 (0.04 \pm 0.08)$
	Toe-in angle (per wheel) $0^{\circ}03' \pm 0^{\circ}05'$
Camber	$0^{\circ}15' \pm 0^{\circ}30'^*$
Caster	$2^{\circ}30' \pm 0^{\circ}45'^*$
Kingpin inclination	$13^{\circ}00' \pm 1^{\circ}30'$
Lower arm ball joint rotation starting torque N·m (in·lb)	0.3 – 9.0 (2.7 – 79.7)
Stabilizer link ball joint rotation torque N·m (in·lb)	0.3 – 2.9 (2.7 – 25.7)
Clearance between the lower arm assembly and the bushing [mm (in)]	$8.3 \pm 1.0 (0.33 \pm 0.04)$

NOTE: *: Difference between right and left wheels must be $0^{\circ}30'$ or less.

Please make the indicated changes to the 2018 - 2019 Eclipse Cross Service Manual, Group 33-Front Suspension -> On-Vehicle Service.

ON-VEHICLE SERVICE

FRONT WHEEL ALIGNMENT CHECK AND ADJUSTMENT

M1332012400762

CAUTION

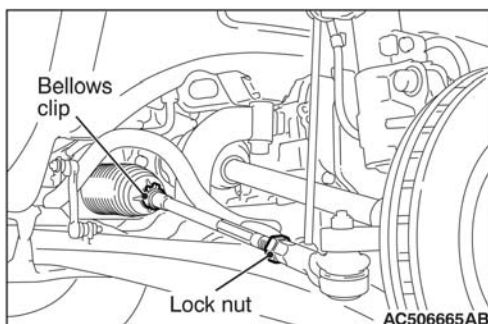
Perform a calibration for the ASC-ECU to learn the steering wheel sensor neutral point (Refer to GROUP 35C, On-vehicle Service – Steering Wheel Sensor Calibration P.35C-171).

- Before the wheel alignment measurement, maintain the front suspension, the steering system and the wheel tires in good condition.
- Park the vehicle on a level surface, and position the front wheel in the straight-ahead position to measure the wheel alignment.

TOE-IN

Standard value:

<Deleted> **At the center of tire tread: 1 ± 2 mm (0.04 ± 0.08 inch)**
Toe-angle (per wheel): $0^{\circ}03' \pm 0^{\circ}05'$



1. Loosen the lock nut with tie-rod bellows clip removed, and then perform the adjustment by turning the tie-rod left/right at the same degree in the opposite direction.

NOTE: The toe moves to the outside by turning the tie-rod: left to the forward direction, and right to the reverse direction.

2. After adjustment, check that the steering angle is within the standard range using the turning radial gauge (Refer to GROUP 37 – On-vehicle Service, Steering Angle Check P.37-64).

CAMBER·CASTER AND KINGPIN INCLINATION

CAMBER

Standard value: $0^{\circ}15' \pm 0^{\circ}30'$

CASTER

Standard value: $2^{\circ}30' \pm 0^{\circ}45'$

NOTE:

- Difference between right and left wheels must be $0^{\circ}30'$ or less.
- The camber and the caster are pre-adjusted at factory and not adjustable.