

Last Modified: 07-05-2024	6.11:8.1.0	Doc ID: RM100000002JX9K
Model Year Start: 2024	Model: Land Cruiser	Prod Date Range: [02/2024 -]
Title: STEERING COLUMN: STEERING COLUMN ASSEMBLY: REMOVAL; 2024 MY Land Cruiser [02/2024 -]		

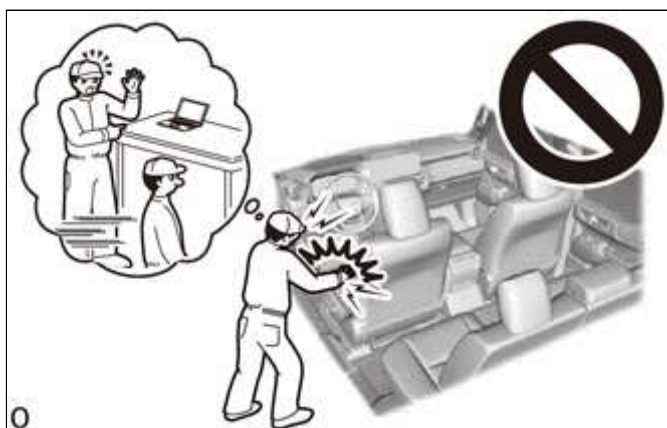
REMOVAL

CAUTION / NOTICE / HINT

The necessary procedures (adjustment, calibration, initialization or registration) that must be performed after parts are removed and installed, or replaced during steering column assembly removal/installation are shown below.

CAUTION:

Be sure to read precaution thoroughly before servicing.



Click here

INFO

HINT:

When the cable is disconnected/reconnected to the auxiliary battery terminal, systems temporarily stop operating. However, each system has a function that completes learning the first time the system is used.

- Learning completes when vehicle is driven

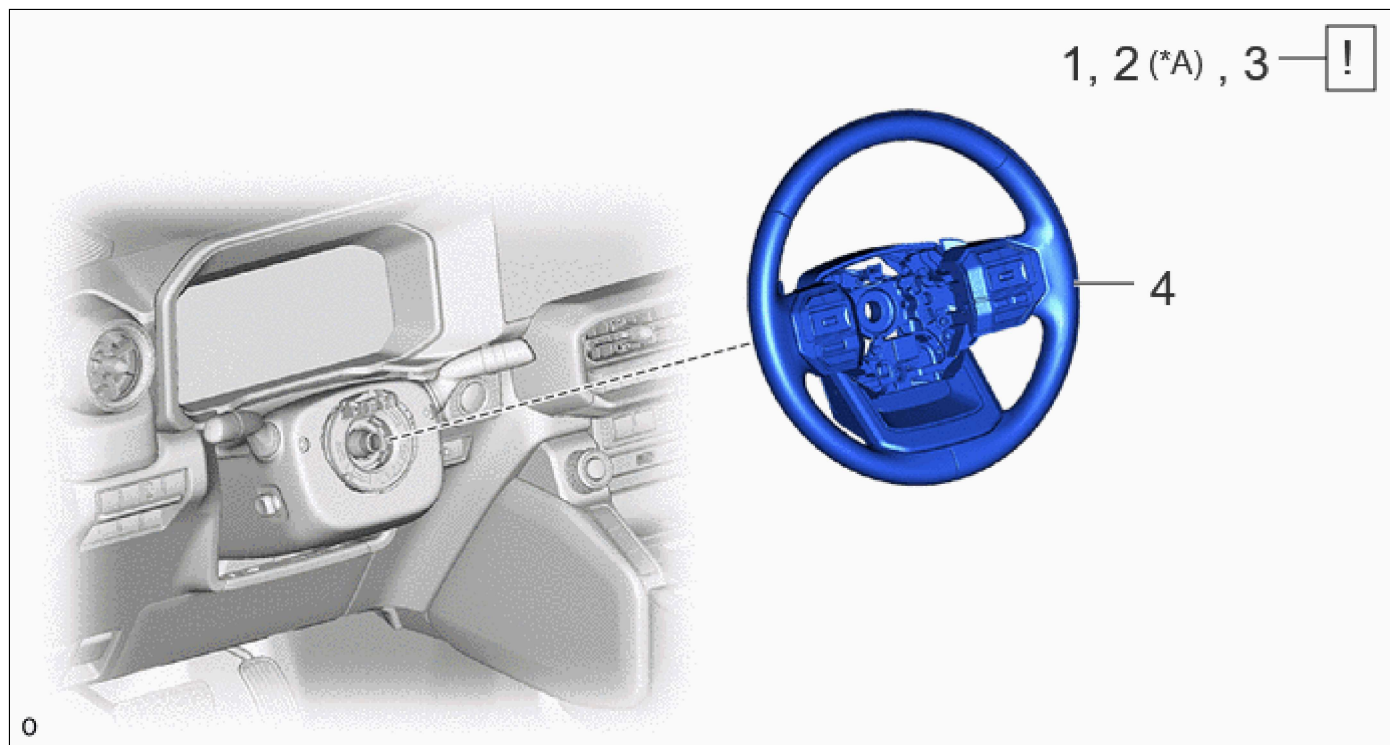
EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Front camera system	Drive the vehicle straight ahead at 35 km/h (22 mph) or more for 5 seconds or more.	INFO

- Learning completes when vehicle is operated normally

EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Air conditioning system	After the ignition switch is turned to ON, the servo motor standard position is recognized.	-
Power back door system	Fully close the back door by hand. HINT: Initialization is not necessary if the above procedures are performed while the back door is closed.	INFO

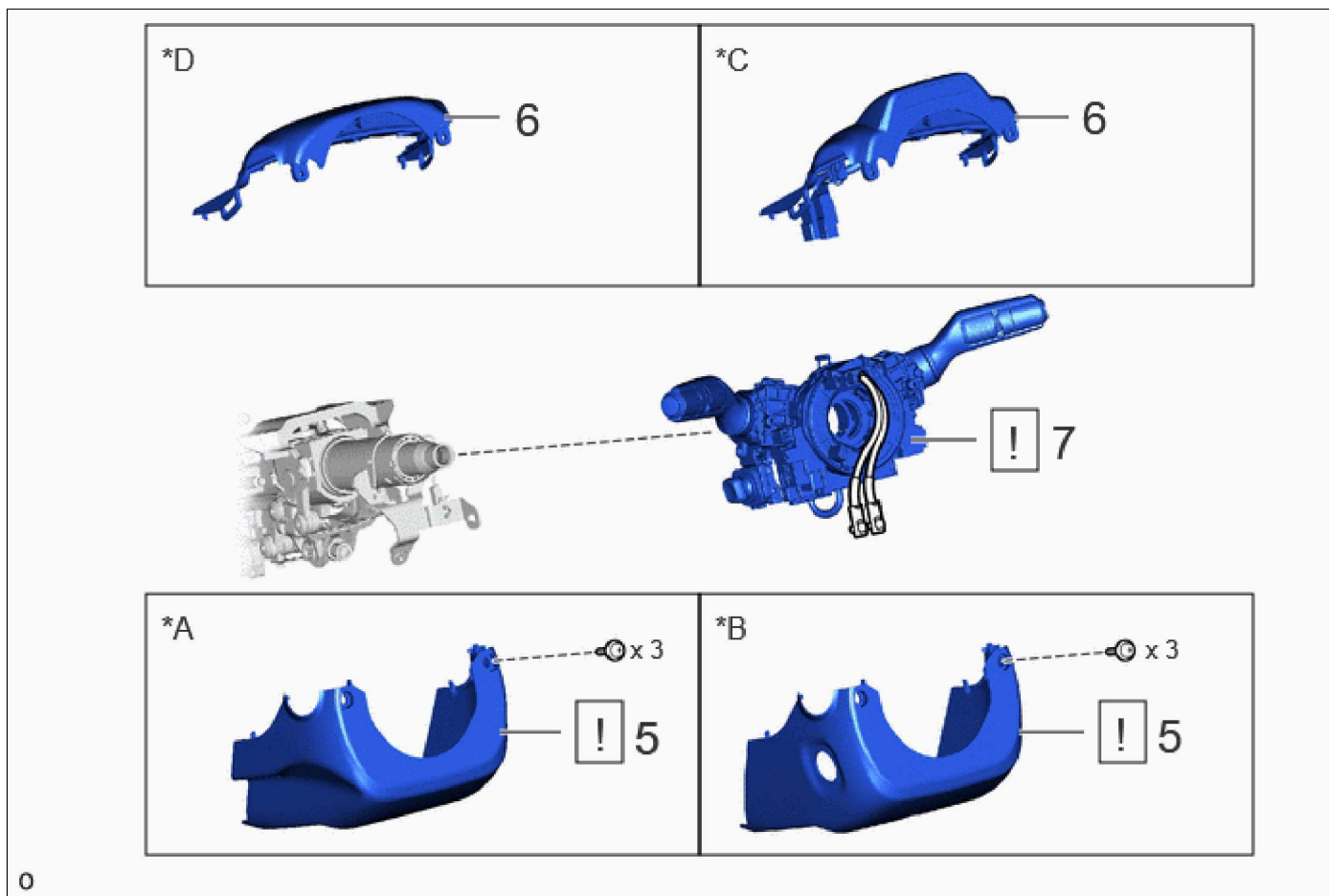
CAUTION / NOTICE / HINT

COMPONENTS (REMOVAL)






PROCEDURE		PART NAME CODE			
1	PRECAUTION	-		-	-
2	CUSTOMIZE POWER TILT AND POWER TELESCOPIC STEERING COLUMN SYSTEM	-		-	-
3	ALIGN FRONT WHEELS FACING STRAIGHT AHEAD	-	-	-	-
4	STEERING WHEEL ASSEMBLY	45100	-	-	-

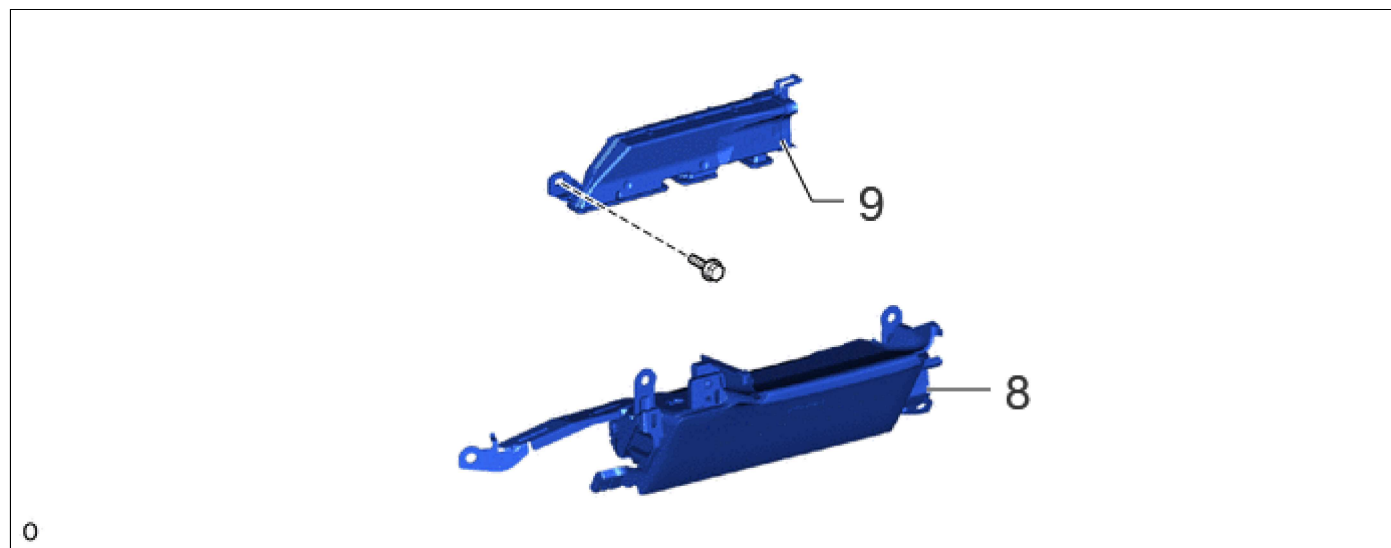
*A	for Power Tilt and Power Telescopic Steering Column	-	-
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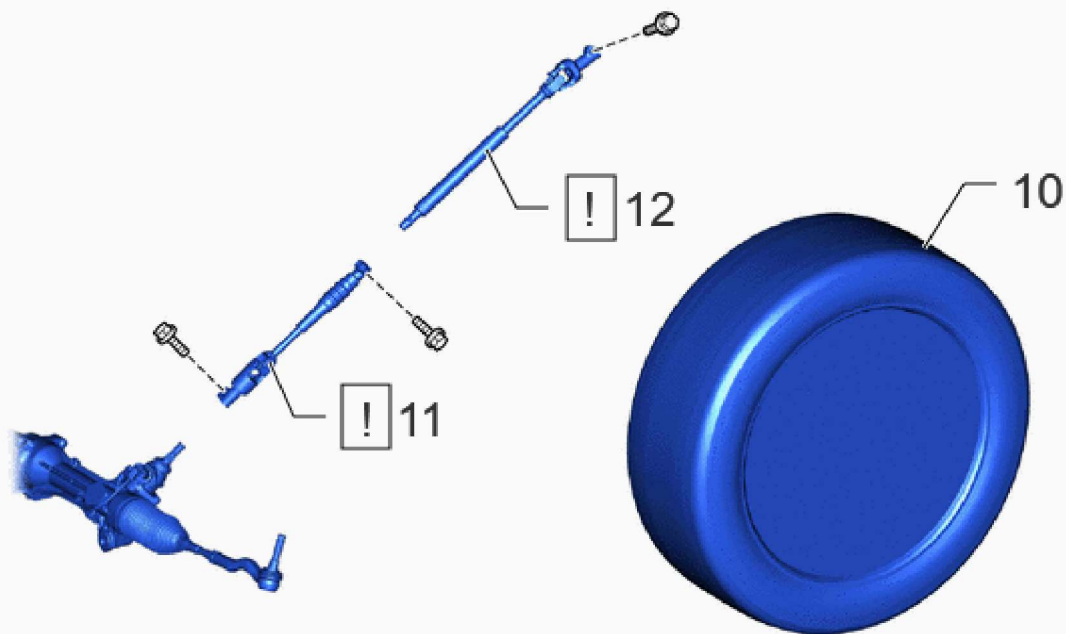
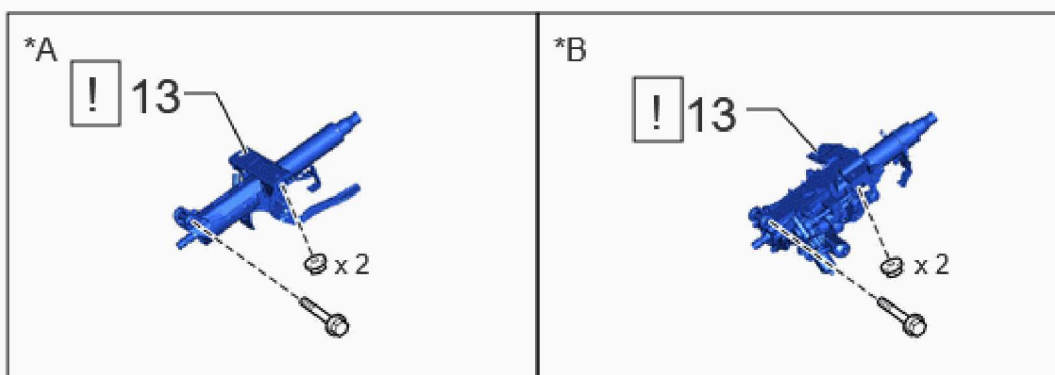
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PROCEDURE		PART NAME CODE			
5	LOWER STEERING COLUMN COVER SUB-ASSEMBLY	45024	INFO	-	-
6	UPPER STEERING COLUMN COVER	45286B	-	-	-
7	TURN SIGNAL SWITCH ASSEMBLY WITH SPIRAL CABLE SUB-ASSEMBLY	-	INFO	-	-




*A	for Manual Tilt and Manual Telescopic Steering Column	*B	for Power Tilt and Power Telescopic Steering Column
*C	w/ Driver Monitor Camera	*D	w/o Driver Monitor Camera



PROCEDURE		PART NAME CODE			
8	LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY	73900	-	-	-
9	NO. 2 AIR DUCT SUB-ASSEMBLY	87201B	-	-	-



0

PROCEDURE		PART NAME CODE			
10	FRONT WHEEL LH	-	-	-	-
11	NO. 2 STEERING INTERMEDIATE SHAFT SUB-ASSEMBLY	45203	INFO	-	-
12	STEERING INTERMEDIATE SHAFT ASSEMBLY	45220	INFO	-	-
13	STEERING COLUMN ASSEMBLY	45250	INFO	-	-

*A	for Manual Tilt and Manual Telescopic Steering Column	*B	for Power Tilt and Power Telescopic Steering Column
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PROCEDURE

1. PRECAUTION



Click here [INFO](#)

2. CUSTOMIZE POWER TILT AND POWER TELESCOPIC STEERING COLUMN SYSTEM (for Power Tilt and Power Telescopic Steering Column)

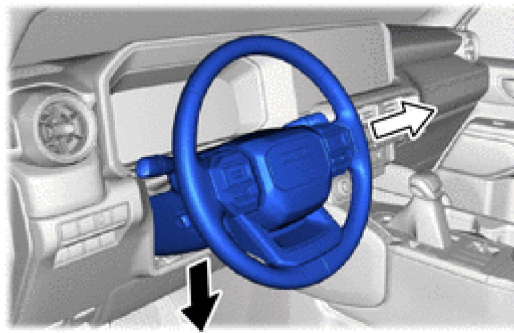


NOTICE:

Perform the customization settings before disconnecting the cable from the negative (-) auxiliary battery terminal. Otherwise, removal of the steering column cover becomes difficult.

HINT:

Record the customization settings before changing them.



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Fully Lower



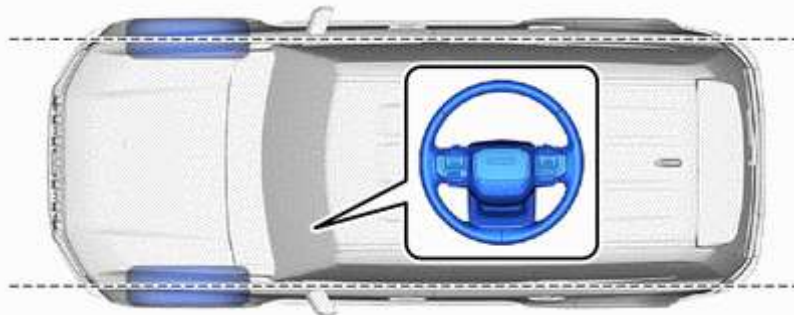
Fully Extend

(1) Perform the customization settings.

Click here [INFO](#)

(2) Move the steering wheel to its lowest and rearmost position.

3. ALIGN FRONT WHEELS FACING STRAIGHT AHEAD



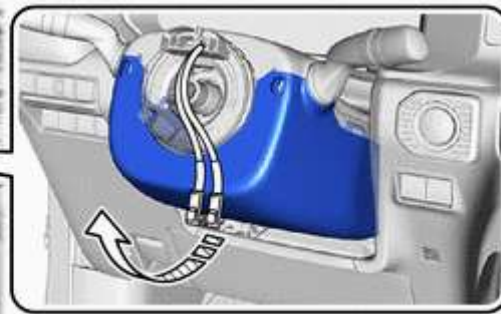
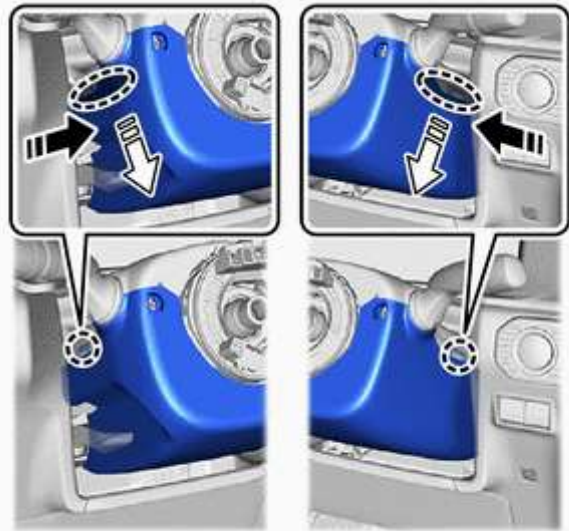
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4. REMOVE STEERING WHEEL ASSEMBLY

Click here [INFO](#)

5. REMOVE LOWER STEERING COLUMN COVER SUB-ASSEMBLY

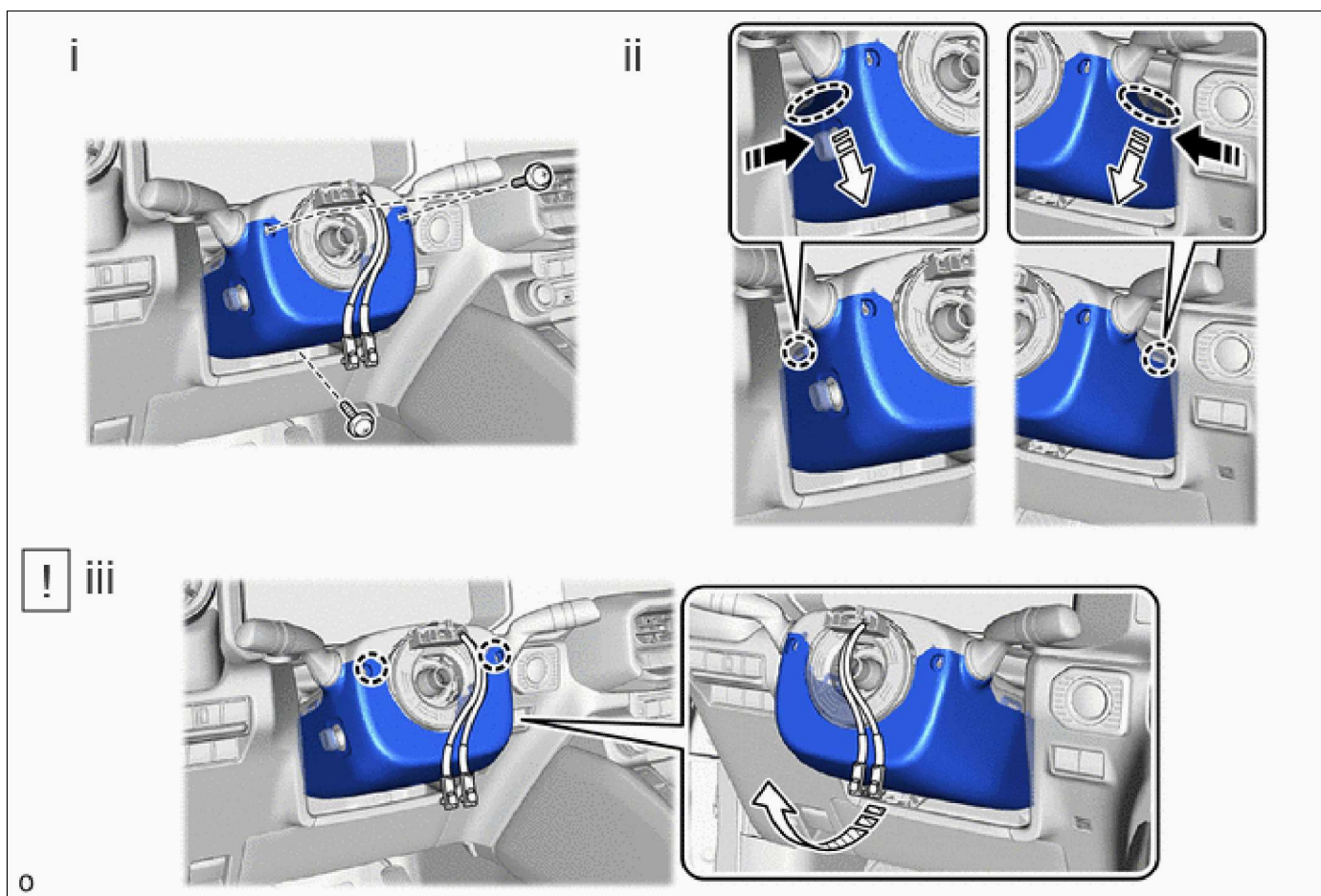
(a) for Manual Tilt and Manual Telescopic Steering Column:



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	Push Area		Remove in this Direction (1)
	Remove in this Direction (2)		Remove in this Direction (3)

(b) for Power Tilt and Power Telescopic Steering Column:



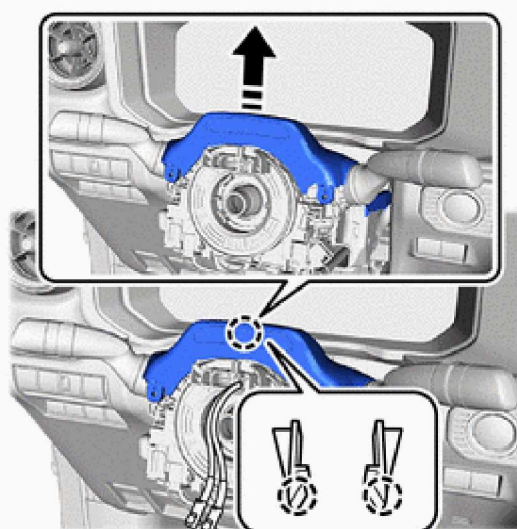
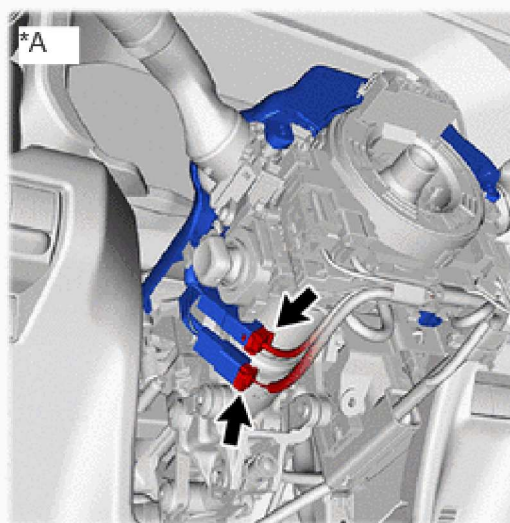
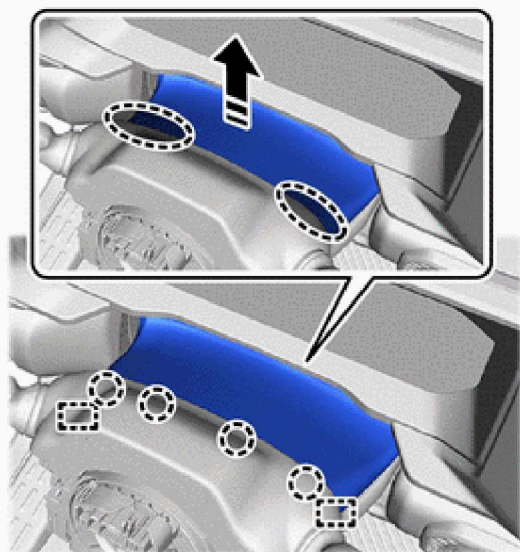
	Push Area		Remove in this Direction (1)
	Remove in this Direction (2)		Remove in this Direction (3)

- (1) Remove the 3 screws.
- (2) Push the lower steering column cover sub-assembly in the direction of the arrow shown in the illustration to detach the claw.
- (3) Detach the claw and remove the lower steering column cover sub-assembly in the direction of the arrow shown in the illustration.



NOTICE:

Do not damage the tilt and telescopic switch.

6. REMOVE UPPER STEERING COLUMN COVER



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*A	w/ Driver Monitor Camera	-	-
	Place Hand Here		Remove in this Direction

7. REMOVE TURN SIGNAL SWITCH ASSEMBLY WITH SPIRAL CABLE SUB-ASSEMBLY

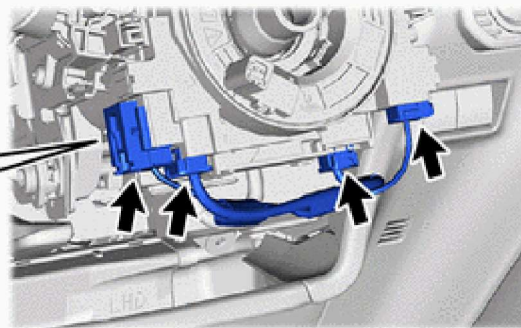
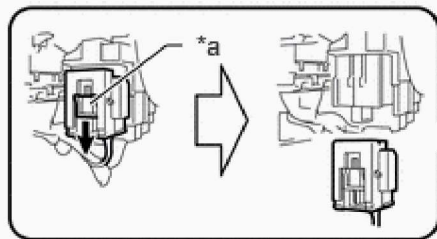


NOTICE:

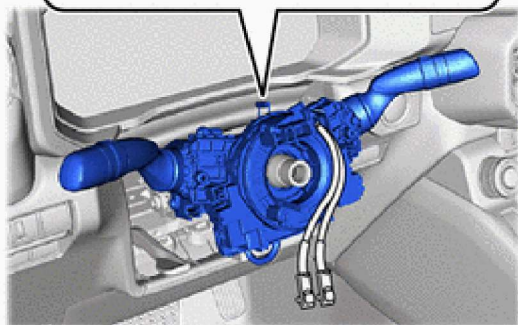
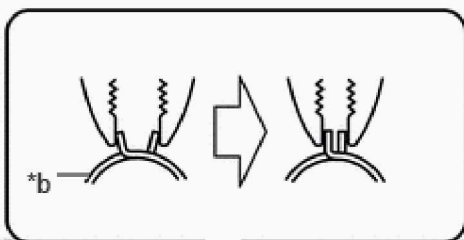
- Do not replace the spiral cable with sensor sub-assembly with the battery connected and the ignition switch to ON.
- Do not rotate the spiral cable with sensor sub-assembly without the steering wheel assembly installed, with the battery connected and the ignition switch to ON.
- When rotating the spiral cable with sensor sub-assembly to check the operation of the spiral cable with sensor sub-assembly (checking for abnormal noise, checking the DTC, Data List, etc.), make sure to perform the inspection with the steering wheel assembly installed.

(a) for Manual Tilt and Manual Telescopic Steering Column:

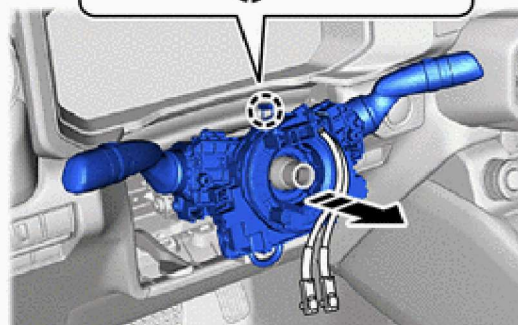
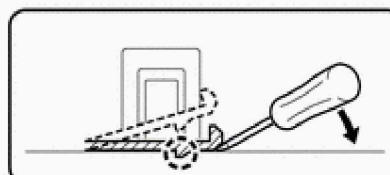
! i, ii




iii



iv



0

*a	Slider	*b	Clamp
	Remove in this Direction	-	-

(1) Disconnect each connector from the turn signal switch assembly with spiral cable sub-assembly.

(2) Slide the slider to release the lock, and then disconnect the yellow airbag connector from the spiral cable with sensor sub-assembly.

HINT:

Refer to [How to Connect or Disconnect Airbag Connector:](#)

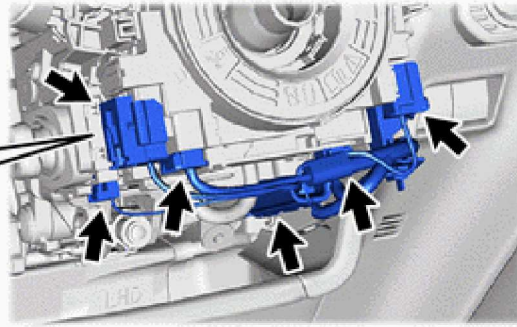
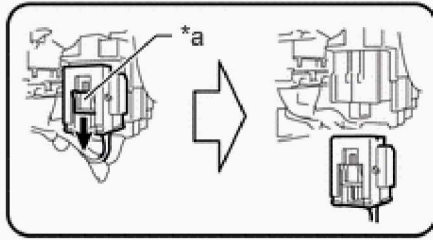
[Click here](#) 

(3) Using pliers, support the band clamp while loosened.

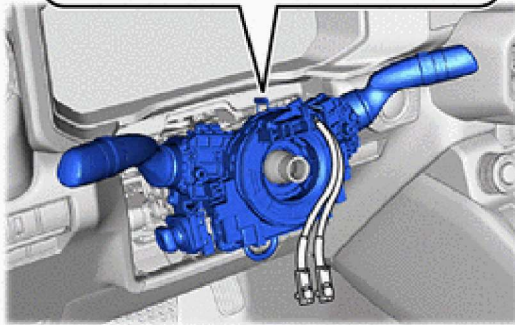
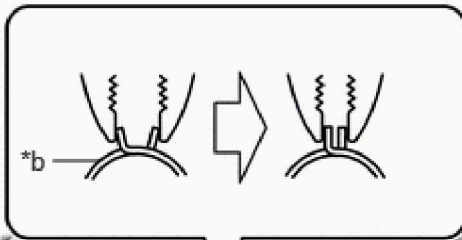
(4) Detach the claw to remove the turn signal switch assembly with spiral cable sub-assembly from the steering column assembly.

(b) for Power Tilt and Power Telescopic Steering Column:

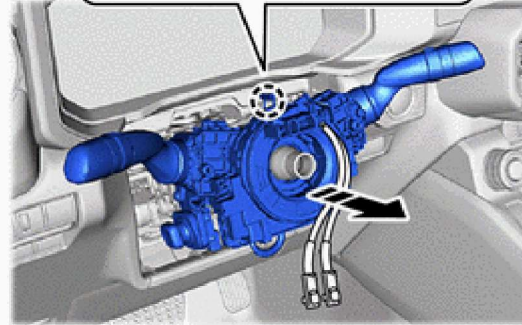
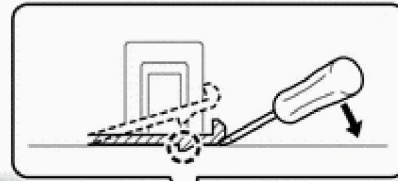
! i, ii




iii



iv



0

*a	Slider	*b	Clamp
	Remove in this Direction	-	-

- (1) Disconnect each connector from the turn signal switch assembly with spiral cable sub-assembly.
- (2) Slide the slider to release the lock, and then disconnect the yellow airbag connector from the spiral cable with sensor sub-assembly.

HINT:

Refer to [How to Connect or Disconnect Airbag Connector:](#)

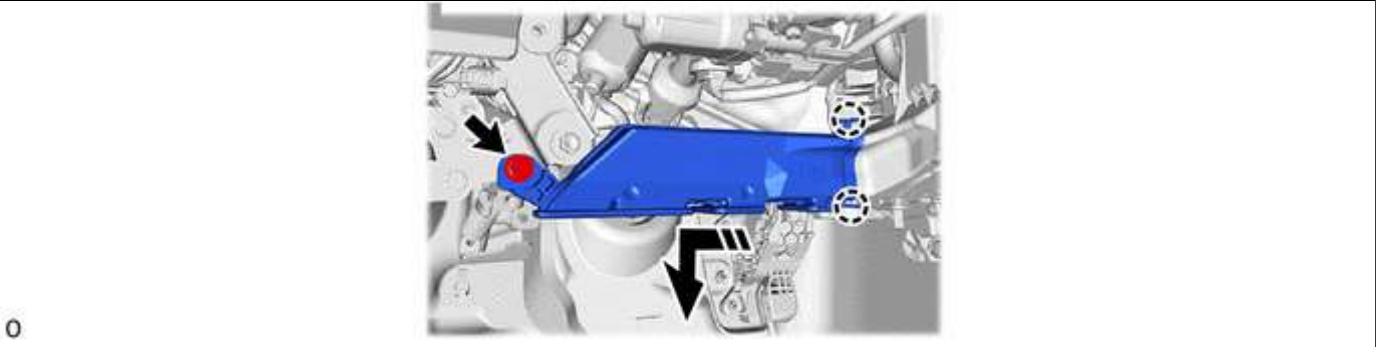
[Click here](#) [INFO](#)

- (3) Using pliers, support the band clamp while loosened.
- (4) Detach the claw to remove the turn signal switch assembly with spiral cable sub-assembly from the steering column assembly.

8. REMOVE LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY

[Click here](#) [INFO](#)

9. REMOVE NO. 2 AIR DUCT SUB-ASSEMBLY



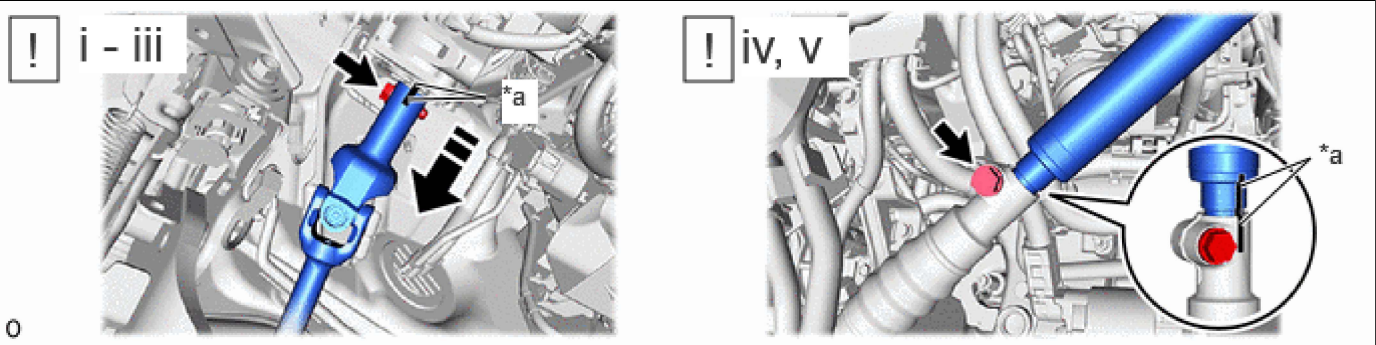
10. REMOVE FRONT WHEEL LH

Click here [INFO](#)

11. DISCONNECT NO. 2 STEERING INTERMEDIATE SHAFT SUB-ASSEMBLY

Click here [INFO](#)

12. REMOVE STEERING INTERMEDIATE SHAFT ASSEMBLY



*a	Matchmark	-	-
	Slide in this Direction	-	-

(1) Remove the bolt and slide the steering intermediate shaft assembly.

NOTICE:

- Do not remove the steering intermediate shaft assembly from the steering intermediate shaft.
- (2) Put matchmarks on the steering intermediate shaft assembly and steering column assembly.
- (3) Remove the steering intermediate shaft assembly from the steering column assembly.
- (4) Put matchmarks on the steering intermediate shaft assembly and No. 2 steering intermediate shaft sub-assembly.

HINT:

Perform this procedure only when replacement of the steering intermediate shaft assembly and No. 2 steering intermediate shaft sub-assembly is necessary.

- (5) Remove the steering intermediate shaft assembly from the No. 2 steering intermediate shaft sub-assembly.

HINT:

Perform this procedure only when replacement of the steering intermediate shaft assembly and No. 2 steering intermediate shaft sub-assembly is necessary.

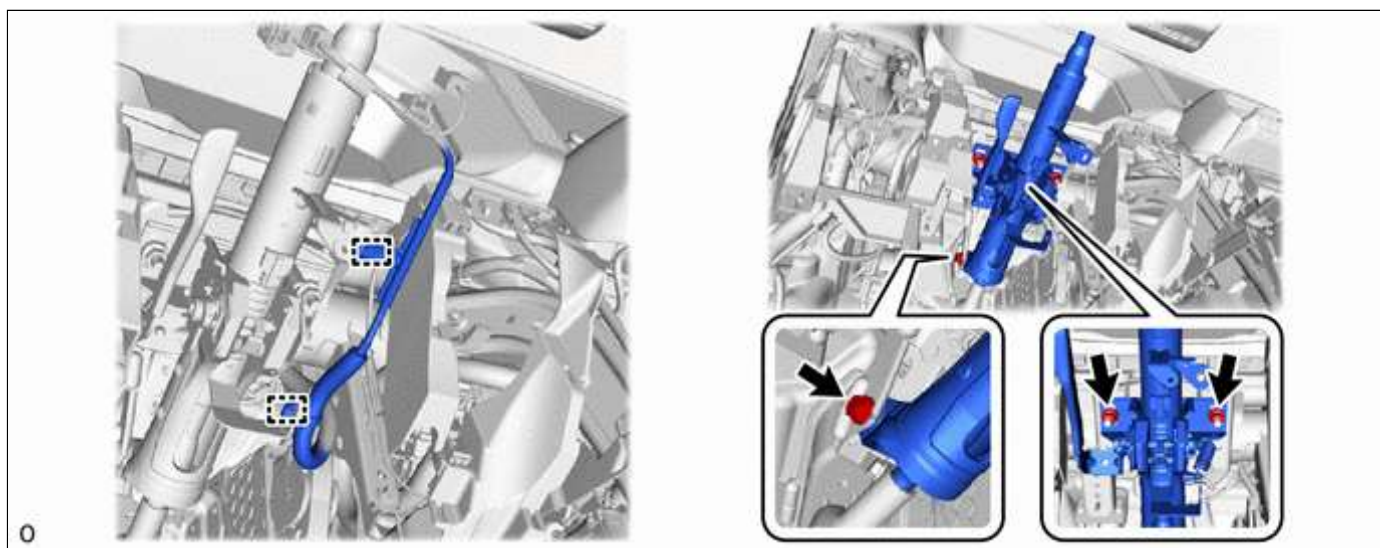
13. REMOVE STEERING COLUMN ASSEMBLY



HINT:

As the illustration shown is an example, the actual details may differ.

(a) for Manual Tilt and Manual Telescopic Steering Column:



(b) for Power Tilt and Power Telescopic Steering Column:

