TOYOTA SERVICE BULLETIN

Group: 09 No.: 10 Date: Mar, 17

Model: Prado 150

Subject: Corrections to Repair Manual RM24N1E

Please ensure these pages are distributed to all relevant staff for their information; and a copy made available for future reference, with the above repair manual.

Section	Title	Paragraph
SUPPLEMENTAL RESTRAINT SYSTEM	SPIRAL CABLE	INSTALLATION (201308-201408)
		INSTALLATION (201408-)

The revised pages listed above are attached.

(The corrected parts are indicated by arrows.)

This bulletin does not cause the Flat Rate Manual to be changed

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RS

(3) After setting the spiral cable sub-assembly to the center position, rotate the spiral cable sub-assembly 2.5 times counterclockwise. Then while rotating the spiral cable sub-assembly 5 times clockwise, measure the resistance according to the value(s) in the table below.
Standard Resistance

Tester Connection	Condition	Specified Condition
G41-1 - z5-2	Always	Below 1 Ω
G41-2 - z5-1	Always	Below 1 Ω
G41-3 - z6-1	Always	Below 1 Ω
G41-4 - z6-2	Always	Below 1 Ω
G40-6 - z8-10	Always	3 Ω or less
G40-5 - z8-9	Always	3 Ω or less
G40-4 - z8-8	Always	3 Ω or less
G40-3 - z8-7	Always	3 Ω or less
G40-2 - z8-6	Always	3 Ω or less
G40-2 - z7-4	Always	3 Ω or less
G40-1 - z7-3	Always	3 Ω or less
G40-12 - z8-5	Always	3 Ω or less
G40-11 - z8-4	Always	3 Ω or less
G40-10 - z8-3	Always	3 Ω or less
G40-9 - z8-2	Always	3 Ω or less
G40-8 - z8-1	Always	3 Ω or less
G40-8 - z7-2	Always	3 Ω or less
G40-7 - z7-1	Always	3 Ω or less
z14-1 - G151-1	Always	Below 0.1 Ω
z14-2 - G151-3	Always	Below 0.1 Ω
z14-3 - G151-2	Always	Below 0.1 Ω
z14-4 - G151-4	Always	Below 0.1 Ω

NOTICE:
As the spiral cable sub-assembly may break, do not rotate the spiral cable sub-assembly more than the specified amount.
If the result is not as specified, replace the spiral cable sub-assembly.

INSTALLATION [(2013/08-2014/08)]

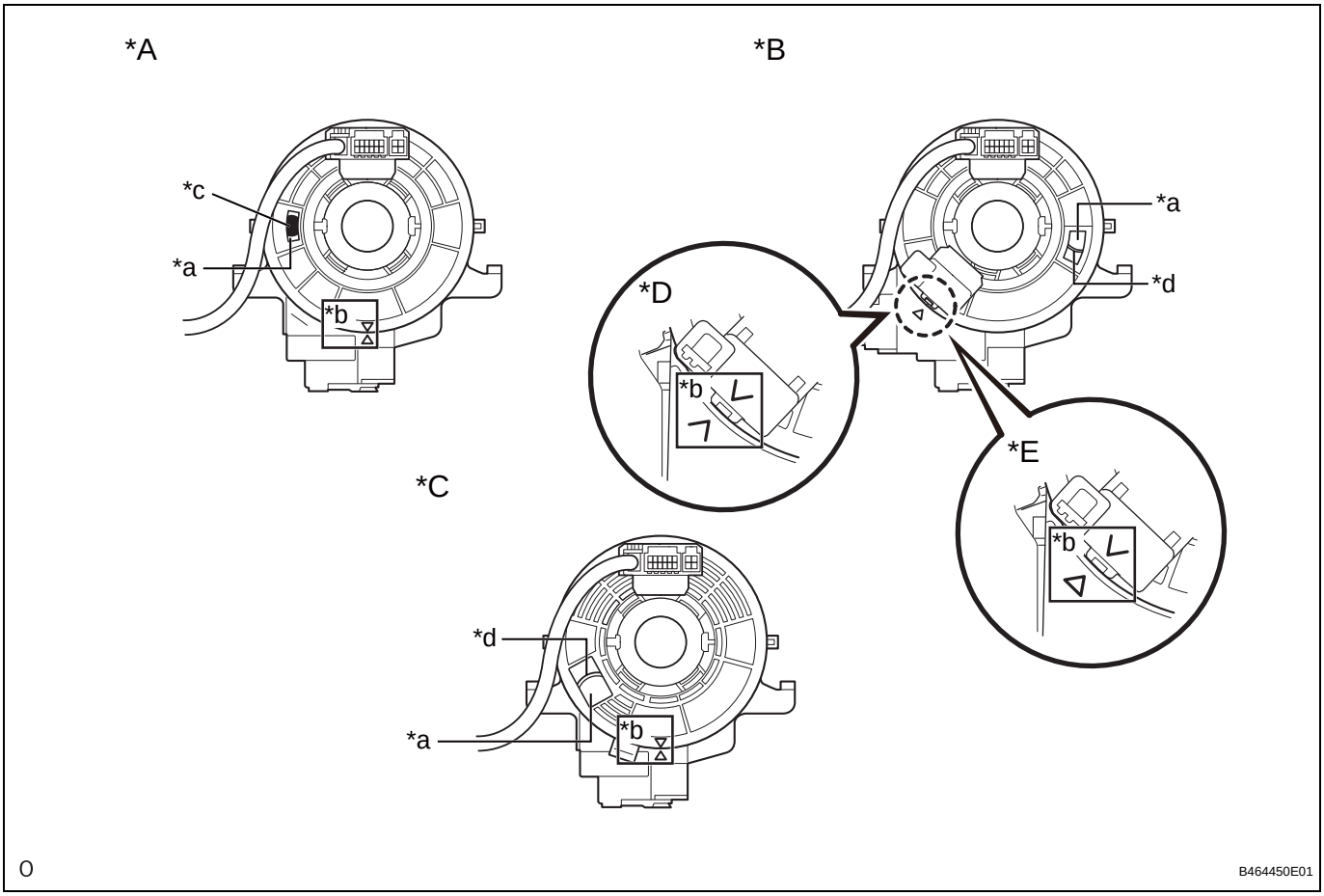
HINT:
- Use the same procedure for RHD and LHD vehicles.
- The procedure listed below is for LHD vehicles.

[Added]

1. INSPECT SPIRAL CABLE SUB-ASSEMBLY

(a) Check that the spiral cable sub-assembly is center position.
OK:
The connector is at the top.
The matchmarks are aligned.
The colored roller or the top of the flat cable U-turn can be checked from the check window.

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Text in Illustration

*A	Colored Roller (Visible Type)	*B	Flat Cable (Visible Type).w/ Steering Heater
*C	Flat Cable (Visible Type),w/o Steering Heater	*D	for Type A
*E	for Type B	-	-
*a	Check Window	*b	Matchmark
*c	Colored Roller	*d	Top of Flat Cable U-turn

(b) If the spiral cable sub-assembly is not centered, center it.

NOTICE:

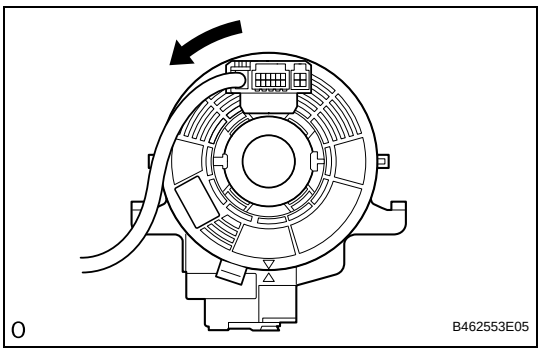
Failure to observe the following precautions may result in damage to the spiral cable sub-assembly.

- Do not turn the spiral cable sub-assembly using the airbag wire harness.
- Do not forcibly rotate the part.

(1) Make sure to rotate the spiral cable sub-assembly counterclockwise slowly by hand until it stops.

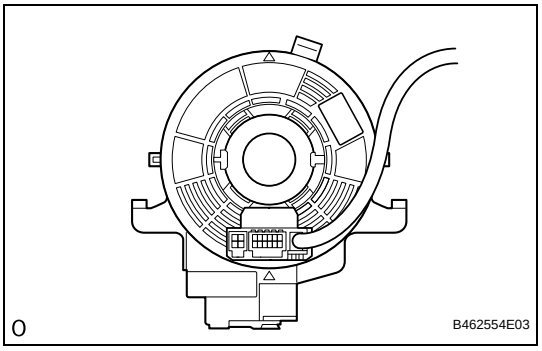
NOTICE:

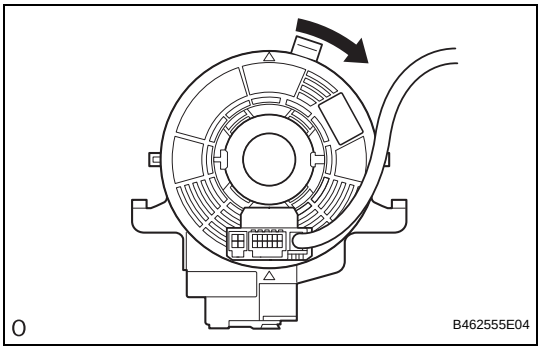
Make sure to rotate the spiral cable sub-assembly counterclockwise. If rotated clockwise, it may be damaged or centering may no longer be possible.



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RS





Text in Illustration

➡	Counterclockwise

(c) If the spiral cable sub-assembly stops rotating and the connector has moved past the bottom, return the connector to the bottom as shown in the illustration.

(d) Rotate the spiral cable sub-assembly clockwise approximately 2.5 times to move the connector from the bottom to the top.

NOTICE:

If the connector is rotated clockwise from the bottom 5 times or more, the spiral cable sub-assembly may be damaged.

Text in Illustration

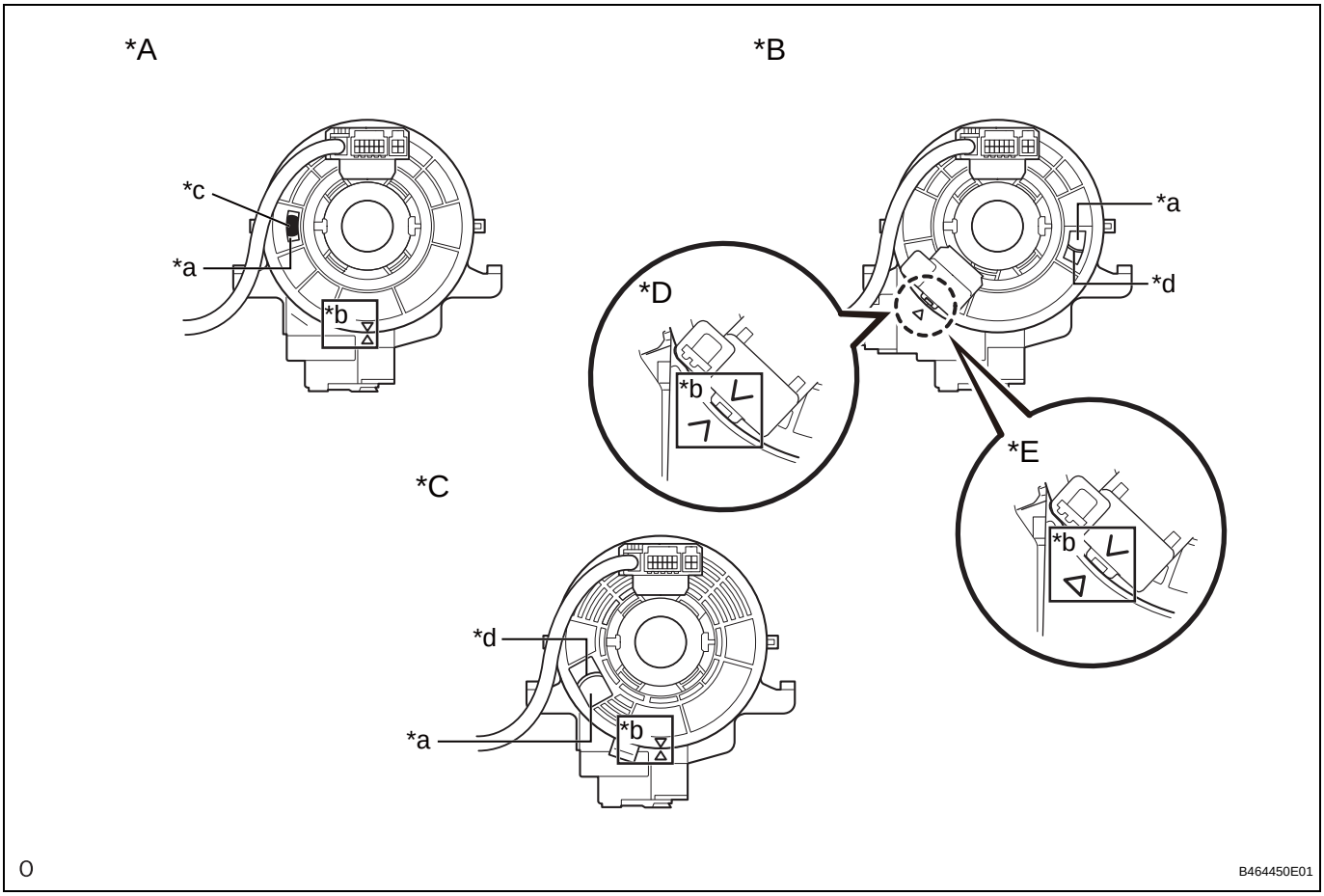
➡	Clockwise

(e) Check that the spiral cable sub-assembly is center position.

OK:

The connector is at the top.
The matchmarks are aligned.
The colored roller or the top of the flat cable U-turn can be checked from the check window.

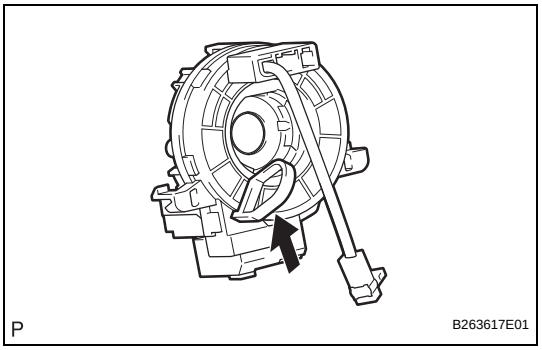
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Text in Illustration

*A	Colored Roller (Visible Type)	*B	Flat Cable (Visible Type).w/ Steering Heater
*C	Flat Cable (Visible Type),w/o Steering Heater	*D	for Type A
*E	for Type B	-	-
*a	Check Window	*b	Matchmark
*c	Colored Roller	*d	Top of Flat Cable U-turn

NOTICE:
If the spiral cable sub-assembly cannot be centered, it is possible that the spiral cable sub-assembly is broken. Replace the spiral cable sub-assembly with a new one.



2. INSTALL SPIRAL CABLE SUB-ASSEMBLY

NOTICE:
When replacing the spiral cable sub-assembly with a new one, remove the lock pin before installing the steering wheel assembly.

Text in Illustration

➡	Lock Pin

(a) Check that the ignition switch is off.

[Corrected]

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[Corrected]

(b) Check that the cable is disconnected from the negative (-) battery terminal.
CAUTION:
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.
(c) Check that the front wheels are facing straight ahead.
(d) Set the turn signal switch to the neutral position.
NOTICE:
If it is not in the neutral position, the turn signal switch cancel ratchet may snap.
(e) Attach the 3 claws to install the spiral cable sub-assembly.
(f) Connect the connectors to the spiral cable sub-assembly.
NOTICE:
When handling the airbag connector, do not damage the airbag wire harness.

3. INSTALL UPPER STEERING COLUMN COVER

See*1 STEERING COLUMN - STEERING COLUMN ASSEMBLY (for Manual Tilt and Manual Telescopic Steering Column)- INSTALLATION (2013/08-2014/08)
See*2 STEERING COLUMN - STEERING COLUMN ASSEMBLY (for Power Tilt and Power Telescopic Steering Column)- INSTALLATION (2013/08-2014/08)

(a) for Manual Tilt and Manual Telescopic Steering Column:
(1) Install the upper steering column cover (See*1).
(b) for Power Tilt and Power Telescopic Steering Column:
(1) Install the upper steering column cover (See*2).

4. INSTALL LOWER STEERING COLUMN COVER

See*1 STEERING COLUMN - STEERING COLUMN ASSEMBLY (for Manual Tilt and Manual Telescopic Steering Column)- INSTALLATION (2013/08-2014/08)
See*2 STEERING COLUMN - STEERING COLUMN ASSEMBLY (for Power Tilt and Power Telescopic Steering Column)- INSTALLATION (2013/08-2014/08)

(a) for Manual Tilt and Manual Telescopic Steering Column:
(1) Install the lower steering column cover (See*1).
(b) for Power Tilt and Power Telescopic Steering Column:
(1) Install the lower steering column cover (See*2).

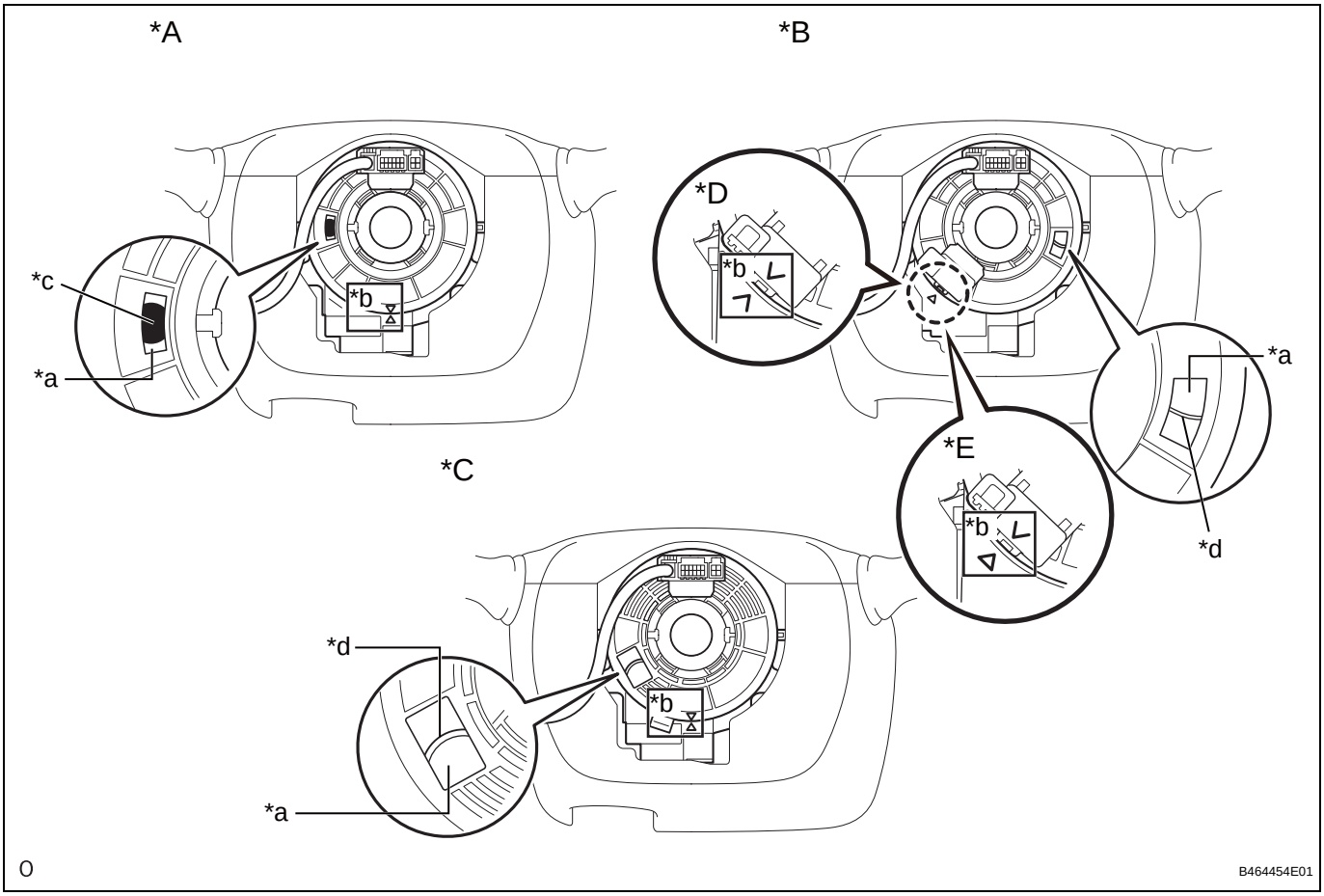
5. TURN FRONT WHEELS TO FACE STRAIGHT AHEAD

6. ADJUST SPIRAL CABLE SUB-ASSEMBLY

[Corrected]

(a) Check that the ignition switch is off.
(b) Check that the cable is disconnected from the negative (-) battery terminal.
CAUTION:
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.
(c) Check that the spiral cable sub-assembly is center position.
OK:
The connector is at the top.
The matchmarks are aligned.
The colored roller or the top of the flat cable U-turn can be checked from the check window.

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*E	for Type B	-	-
*a	Check Window	*b	Matchmark
*c	Colored Roller	*d	Top of Flat Cable U-turn

(d) If the spiral cable sub-assembly is not centered, center it.

NOTICE:

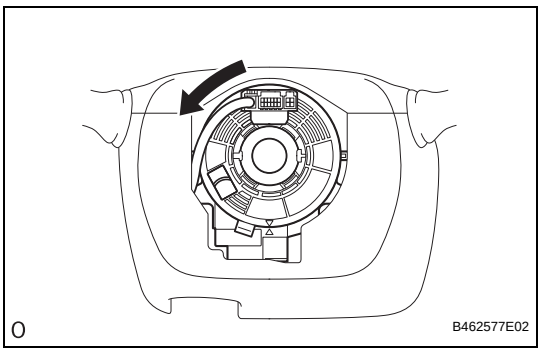
Failure to observe the following precautions may result in damage to the spiral cable sub-assembly.

- **Do not turn the spiral cable sub-assembly using the airbag wire harness.**
- **Do not forcibly rotate the part.**

(1) Make sure to rotate the spiral cable sub-assembly counterclockwise slowly by hand until it stops.

NOTICE:

Make sure to rotate the spiral cable sub-assembly counterclockwise. If rotated clockwise, it may be damaged or centering may no longer be possible.

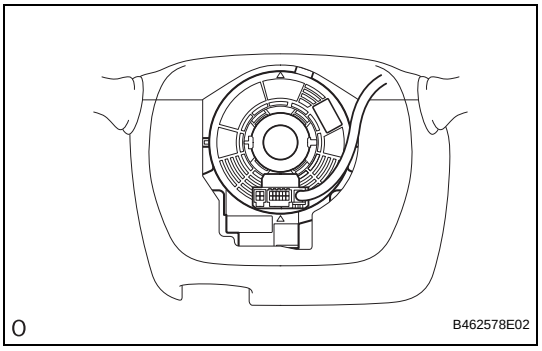


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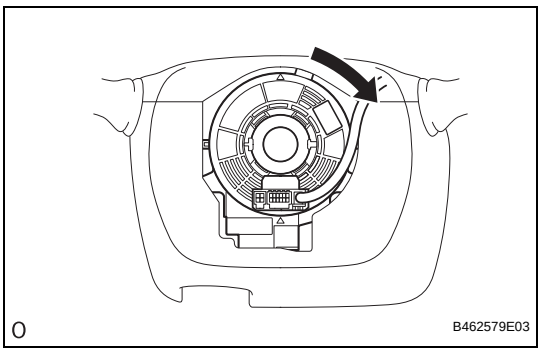
Text in Illustration

➡	Counterclockwise

RS



(e) If the spiral cable sub-assembly stops rotating and the connector has moved past the bottom, return the connector to the bottom as shown in the illustration.



(f) Rotate the spiral cable sub-assembly clockwise approximately 2.5 times to move the connector from the bottom to the top.

Text in Illustration

➡	Clockwise

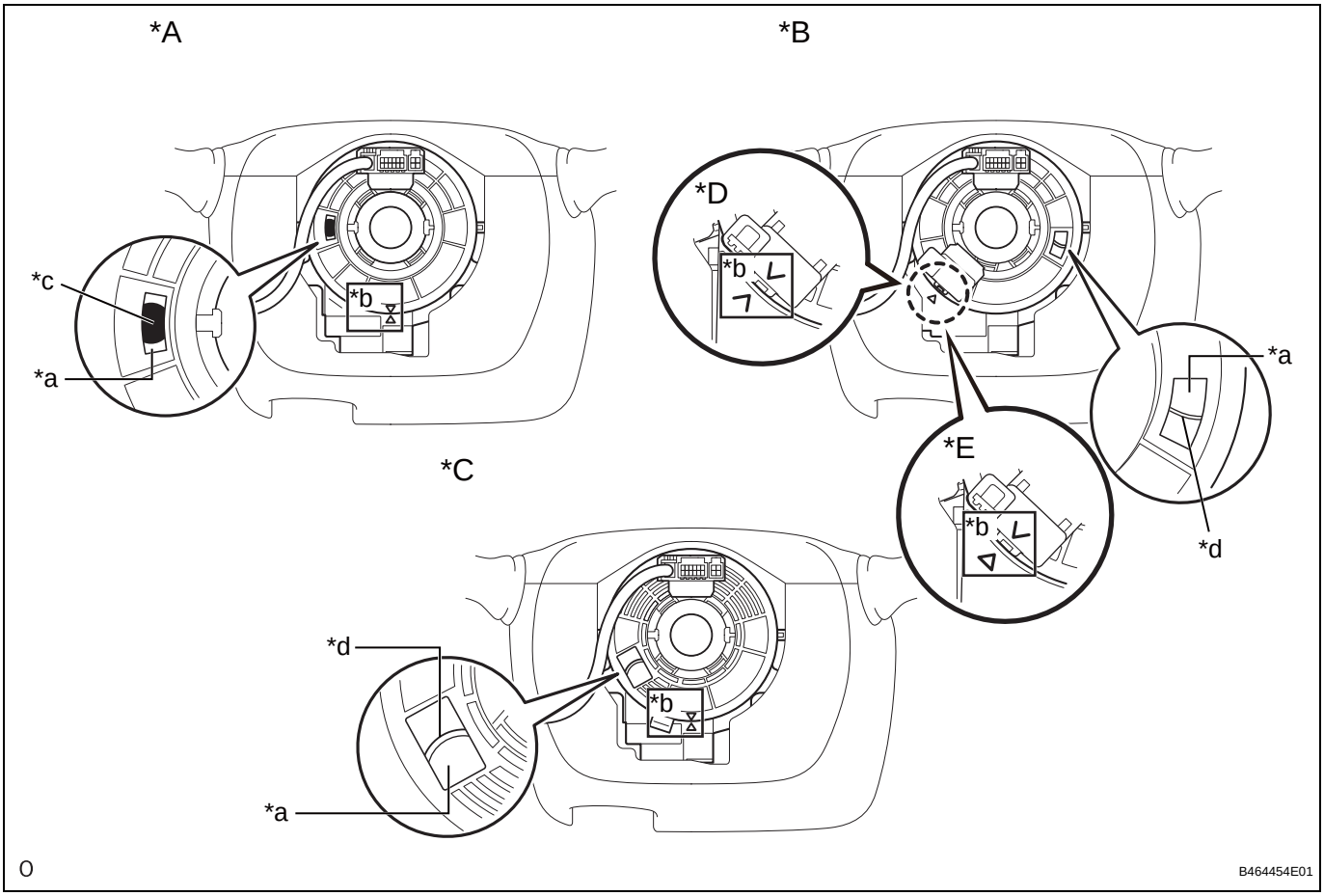
NOTICE:
If the connector is rotated clockwise from the bottom 5 times or more, the spiral cable sub-assembly may be damaged.

(g) Check that the spiral cable sub-assembly is center position.

OK:

The connector is at the top.
The matchmarks are aligned.
The colored roller or the top of the flat cable U-turn can be checked from the check window.

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*C	Flat Cable (Visible Type),w/o Steering Heater	*D	for Type A
*E	for Type B	-	-
*a	Check Window	*b	Matchmark
*c	Colored Roller	*d	Top of Flat Cable U-turn

NOTICE:
If the spiral cable sub-assembly cannot be centered, it is possible that the spiral cable sub-assembly is broken. Replace the spiral cable sub-assembly with a new one.

7. INSTALL STEERING WHEEL ASSEMBLY

(a) Install the steering wheel assembly (See*1).

See*1 STEERING COLUMN - STEERING WHEEL ASSEMBLY - INSTALLATION (2013/08-2014/08)

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RS

(3) After setting the spiral cable sub-assembly to the center position, rotate the spiral cable sub-assembly 2.5 times counterclockwise. Then while rotating the spiral cable sub-assembly 5 times clockwise, measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
G41-1 - z5-2	Always	Below 1 Ω
G41-2 - z5-1	Always	Below 1 Ω
G41-3 - z6-1	Always	Below 1 Ω
G41-4 - z6-2	Always	Below 1 Ω
G40-6 - z8-10	Always	3 Ω or less
G40-5 - z8-9	Always	3 Ω or less
G40-4 - z8-8	Always	3 Ω or less
G40-3 - z8-7	Always	3 Ω or less
G40-2 - z8-6	Always	3 Ω or less
G40-2 - z7-4	Always	3 Ω or less
G40-1 - z7-3	Always	3 Ω or less
G40-12 - z8-5	Always	3 Ω or less
G40-11 - z8-4	Always	3 Ω or less
G40-10 - z8-3	Always	3 Ω or less
G40-9 - z8-2	Always	3 Ω or less
G40-8 - z8-1	Always	3 Ω or less
G40-8 - z7-2	Always	3 Ω or less
G40-7 - z7-1	Always	3 Ω or less
z14-1 - G151-1	Always	Below 0.1 Ω
z14-2 - G151-3	Always	Below 0.1 Ω
z14-3 - G151-2	Always	Below 0.1 Ω
z14-4 - G151-4	Always	Below 0.1 Ω

NOTICE:
As the spiral cable sub-assembly may break, do not rotate the spiral cable sub-assembly more than the specified amount.
If the result is not as specified, replace the spiral cable sub-assembly.

INSTALLATION [(2014/08-)]

HINT:
- Use the same procedure for RHD and LHD vehicles.
- The procedure listed below is for LHD vehicles.

[Added]

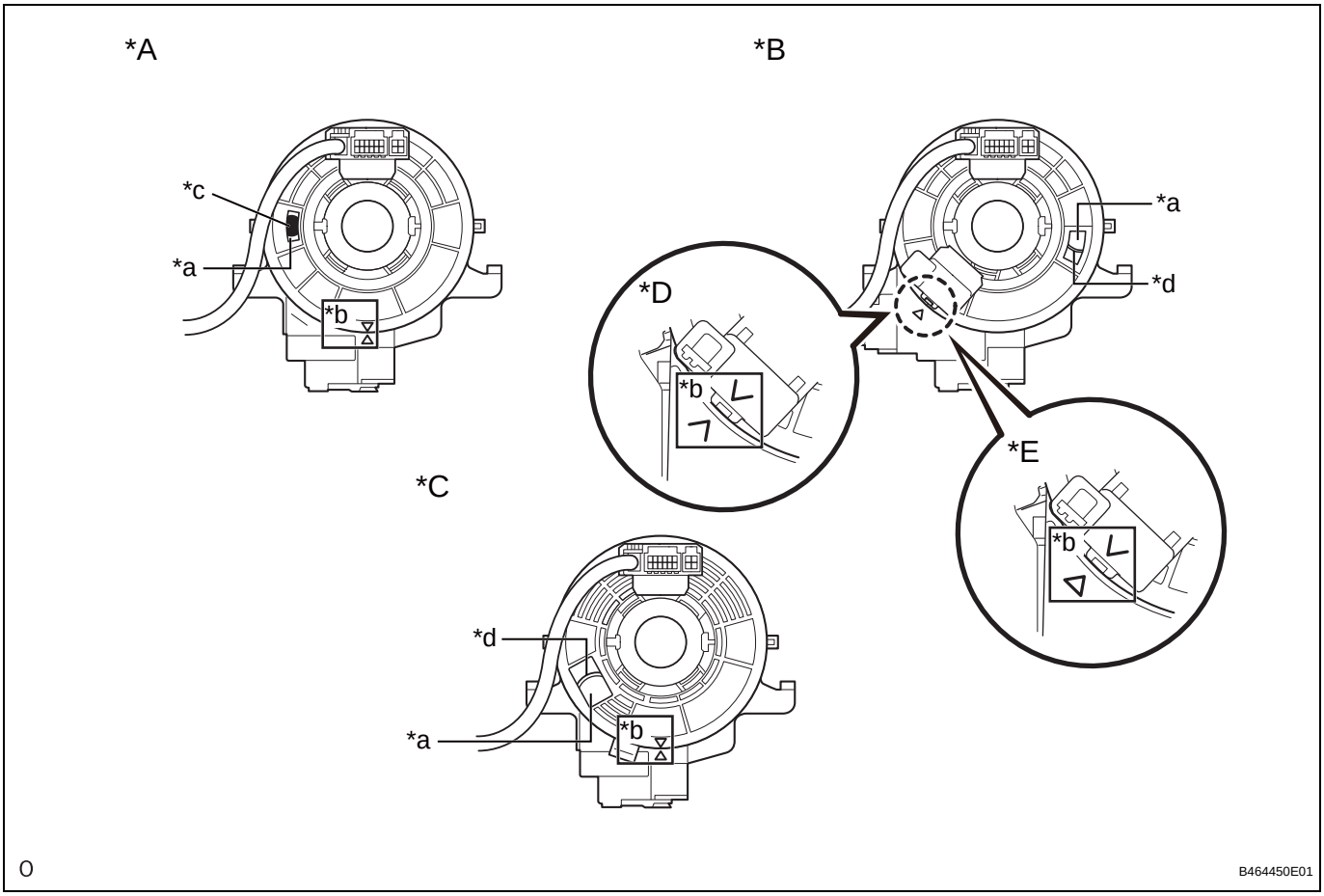
1. INSPECT SPIRAL CABLE SUB-ASSEMBLY

(a) Check that the spiral cable sub-assembly is center position.

OK:

The connector is at the top.
The matchmarks are aligned.
The colored roller or the top of the flat cable U-turn can be checked from the check window.

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*C	Flat Cable (Visible Type),w/o Steering Heater	*D	for Type A
*E	for Type B	-	-
*a	Check Window	*b	Matchmark
*c	Colored Roller	*d	Top of Flat Cable U-turn

(b) If the spiral cable sub-assembly is not centered, center it.

NOTICE:

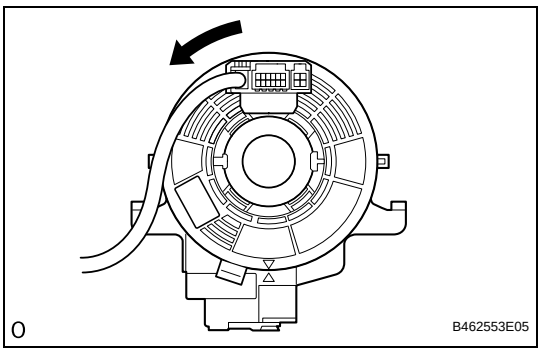
Failure to observe the following precautions may result in damage to the spiral cable sub-assembly.

- Do not turn the spiral cable sub-assembly using the airbag wire harness.
- Do not forcibly rotate the part.

(1) Make sure to rotate the spiral cable sub-assembly counterclockwise slowly by hand until it stops.

NOTICE:

Make sure to rotate the spiral cable sub-assembly counterclockwise. If rotated clockwise, it may be damaged or centering may no longer be possible.

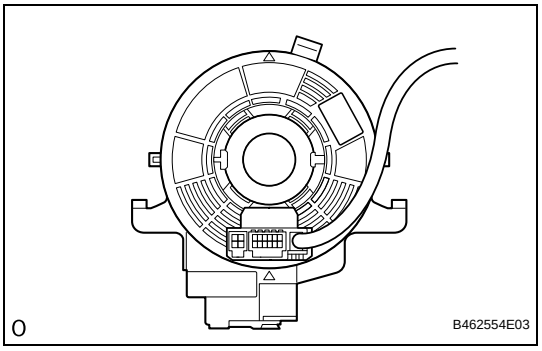


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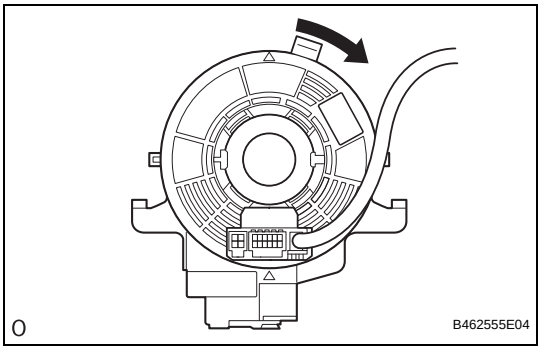
RS

Text in Illustration

➡	Counterclockwise



(c) If the spiral cable sub-assembly stops rotating and the connector has moved past the bottom, return the connector to the bottom as shown in the illustration.



(d) Rotate the spiral cable sub-assembly clockwise approximately 2.5 times to move the connector from the bottom to the top.

NOTICE:

If the connector is rotated clockwise from the bottom 5 times or more, the spiral cable sub-assembly may be damaged.

Text in Illustration

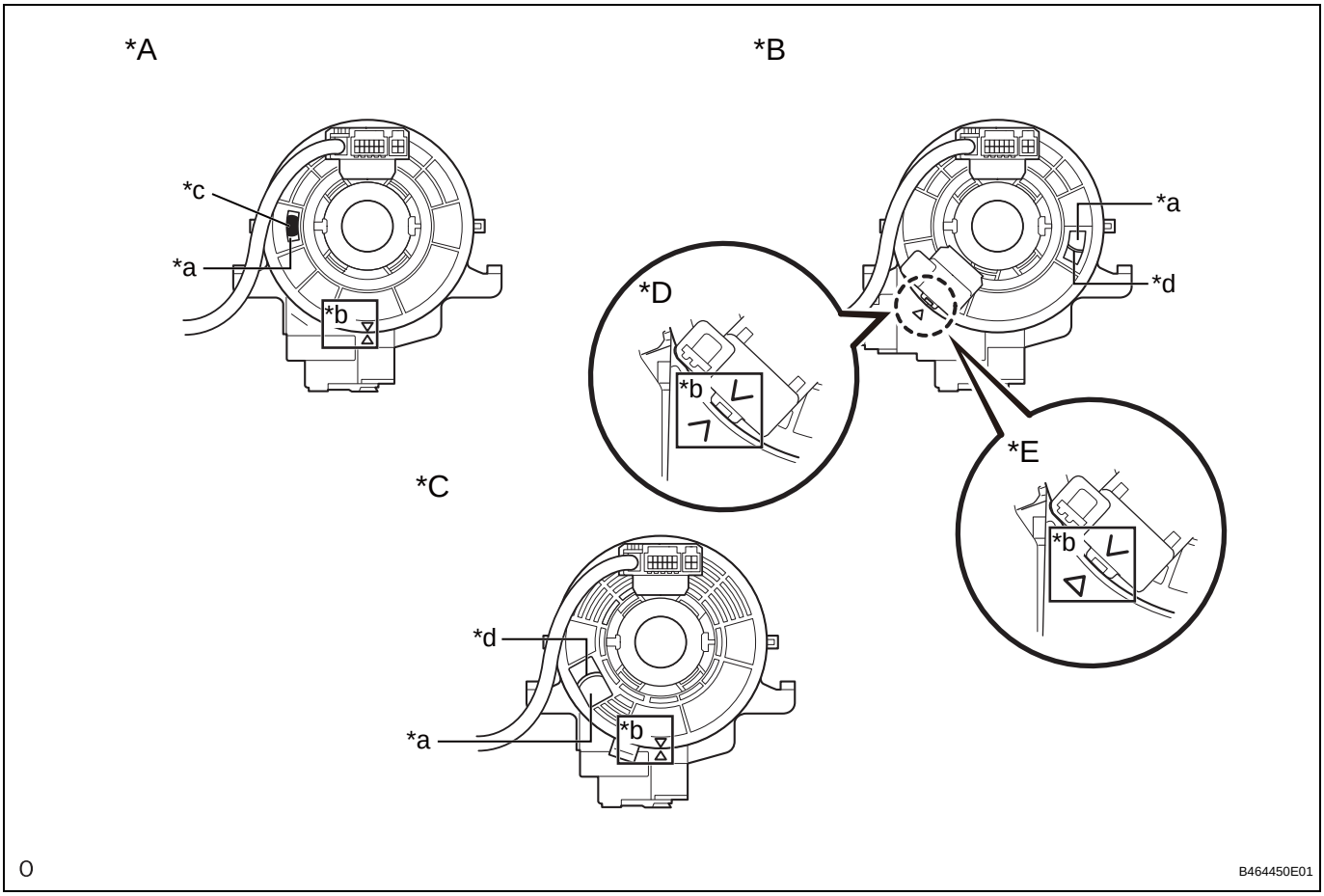
➡	Clockwise

(e) Check that the spiral cable sub-assembly is center position.

OK:

The connector is at the top.
The matchmarks are aligned.
The colored roller or the top of the flat cable U-turn can be checked from the check window.

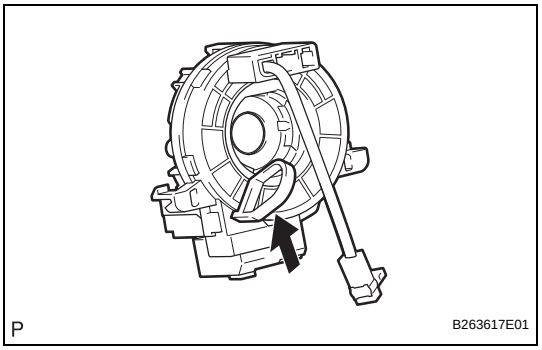
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*C	Flat Cable (Visible Type),w/o Steering Heater	*D	for Type A
*E	for Type B	-	-
*a	Check Window	*b	Matchmark
*c	Colored Roller	*d	Top of Flat Cable U-turn

NOTICE:
If the spiral cable sub-assembly cannot be centered, it is possible that the spiral cable sub-assembly is broken. Replace the spiral cable sub-assembly with a new one.



2. INSTALL SPIRAL CABLE SUB-ASSEMBLY

NOTICE:
When replacing the spiral cable sub-assembly with a new one, remove the lock pin before installing the steering wheel assembly.

Text in Illustration

➡	Lock Pin

(a) Check that the ignition switch is off.

[Corrected]

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[Corrected]

(b) Check that the cable is disconnected from the negative (-) battery terminal.
CAUTION:
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.
(c) Check that the front wheels are facing straight ahead.
(d) Set the turn signal switch to the neutral position.
NOTICE:
If it is not in the neutral position, the turn signal switch cancel ratchet may snap.
(e) Attach the 3 claws to install the spiral cable sub-assembly.
(f) Connect the connectors to the spiral cable sub-assembly.
NOTICE:
When handling the airbag connector, do not damage the airbag wire harness.

3. INSTALL UPPER STEERING COLUMN COVER

See*1 STEERING COLUMN - STEERING COLUMN ASSEMBLY (for Manual Tilt and Manual Telescopic Steering Column)- INSTALLATION (2014/08-)
See*2 STEERING COLUMN - STEERING COLUMN ASSEMBLY (for Power Tilt and Power Telescopic Steering Column)- INSTALLATION (2014/08-)

(a) for Manual Tilt and Manual Telescopic Steering Column:
(1) Install the upper steering column cover (See*1).
(b) for Power Tilt and Power Telescopic Steering Column:
(1) Install the upper steering column cover (See*2).

4. INSTALL LOWER STEERING COLUMN COVER

See*1 STEERING COLUMN - STEERING COLUMN ASSEMBLY (for Manual Tilt and Manual Telescopic Steering Column)- INSTALLATION (2014/08-)
See*2 STEERING COLUMN - STEERING COLUMN ASSEMBLY (for Power Tilt and Power Telescopic Steering Column)- INSTALLATION (2014/08-)

(a) for Manual Tilt and Manual Telescopic Steering Column:
(1) Install the lower steering column cover (See*1).
(b) for Power Tilt and Power Telescopic Steering Column:
(1) Install the lower steering column cover (See*2).

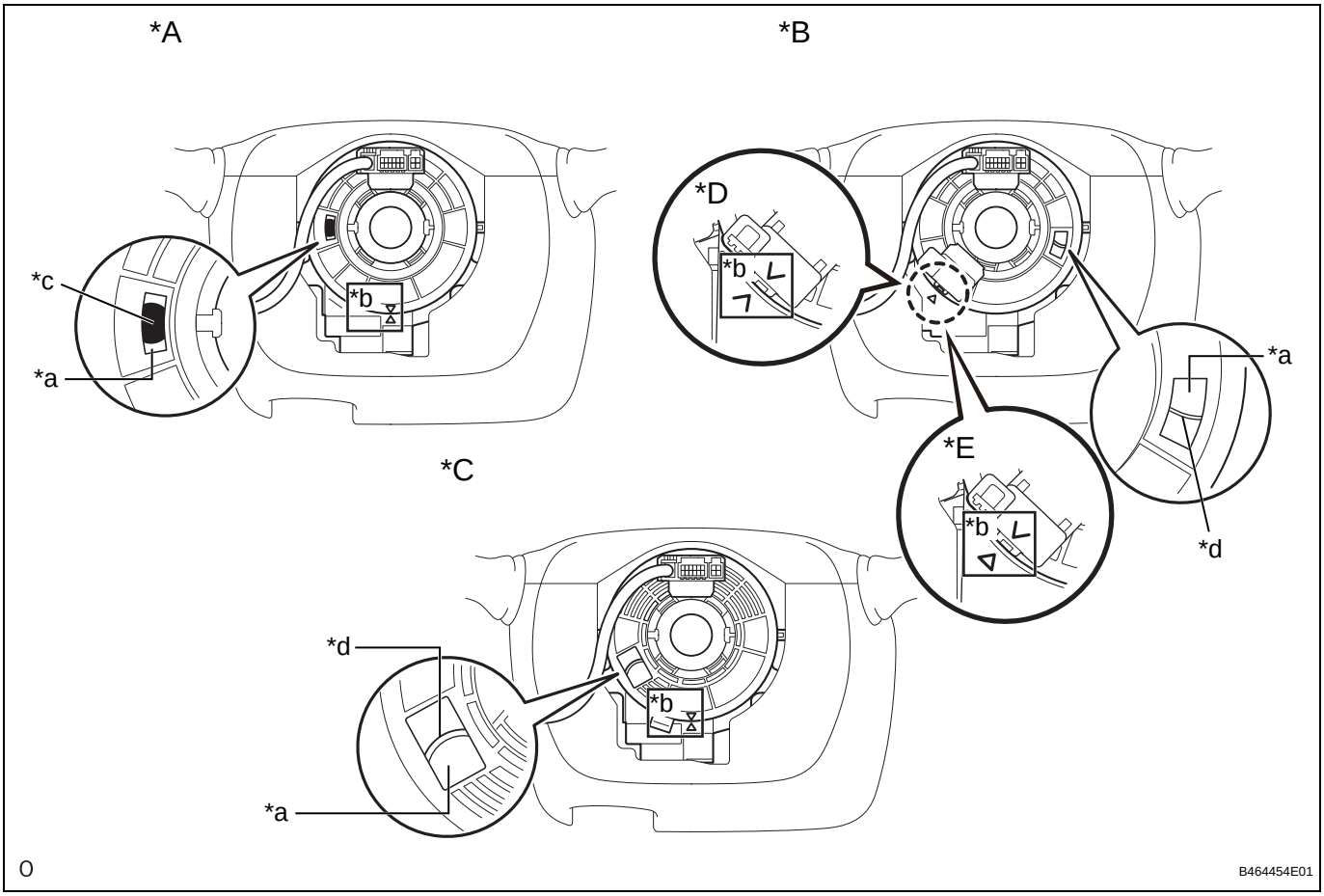
5. TURN FRONT WHEELS TO FACE STRAIGHT AHEAD

6. ADJUST SPIRAL CABLE SUB-ASSEMBLY

[Corrected]

(a) Check that the ignition switch is off.
(b) Check that the cable is disconnected from the negative (-) battery terminal.
CAUTION:
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.
(c) Check that the spiral cable sub-assembly is center position.
OK:
The connector is at the top.
The matchmarks are aligned.
The colored roller or the top of the flat cable U-turn can be checked from the check window.

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*a	Check Window	*b	Matchmark
*c	Colored Roller	*d	Top of Flat Cable U-turn

(d) If the spiral cable sub-assembly is not centered, center it.

NOTICE:

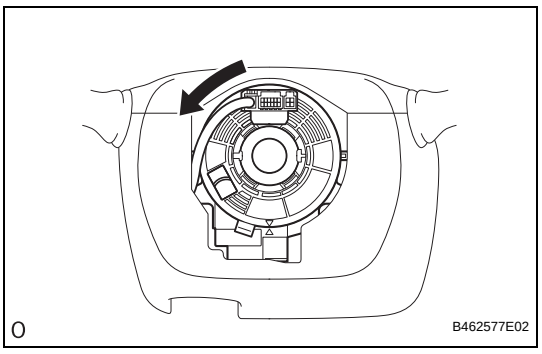
Failure to observe the following precautions may result in damage to the spiral cable sub-assembly.

- **Do not turn the spiral cable sub-assembly using the airbag wire harness.**
- **Do not forcibly rotate the part.**

(1) Make sure to rotate the spiral cable sub-assembly counterclockwise slowly by hand until it stops.

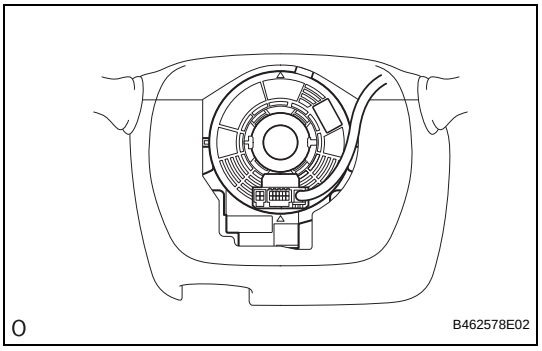
NOTICE:

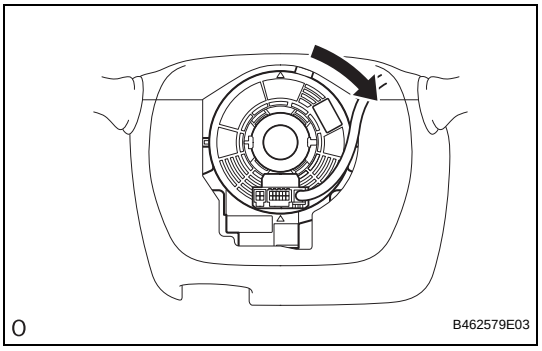
Make sure to rotate the spiral cable sub-assembly counterclockwise. If rotated clockwise, it may be damaged or centering may no longer be possible.



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RS





Text in Illustration

➡	Counterclockwise

(e) If the spiral cable sub-assembly stops rotating and the connector has moved past the bottom, return the connector to the bottom as shown in the illustration.

(f) Rotate the spiral cable sub-assembly clockwise approximately 2.5 times to move the connector from the bottom to the top.

Text in Illustration

➡	Clockwise

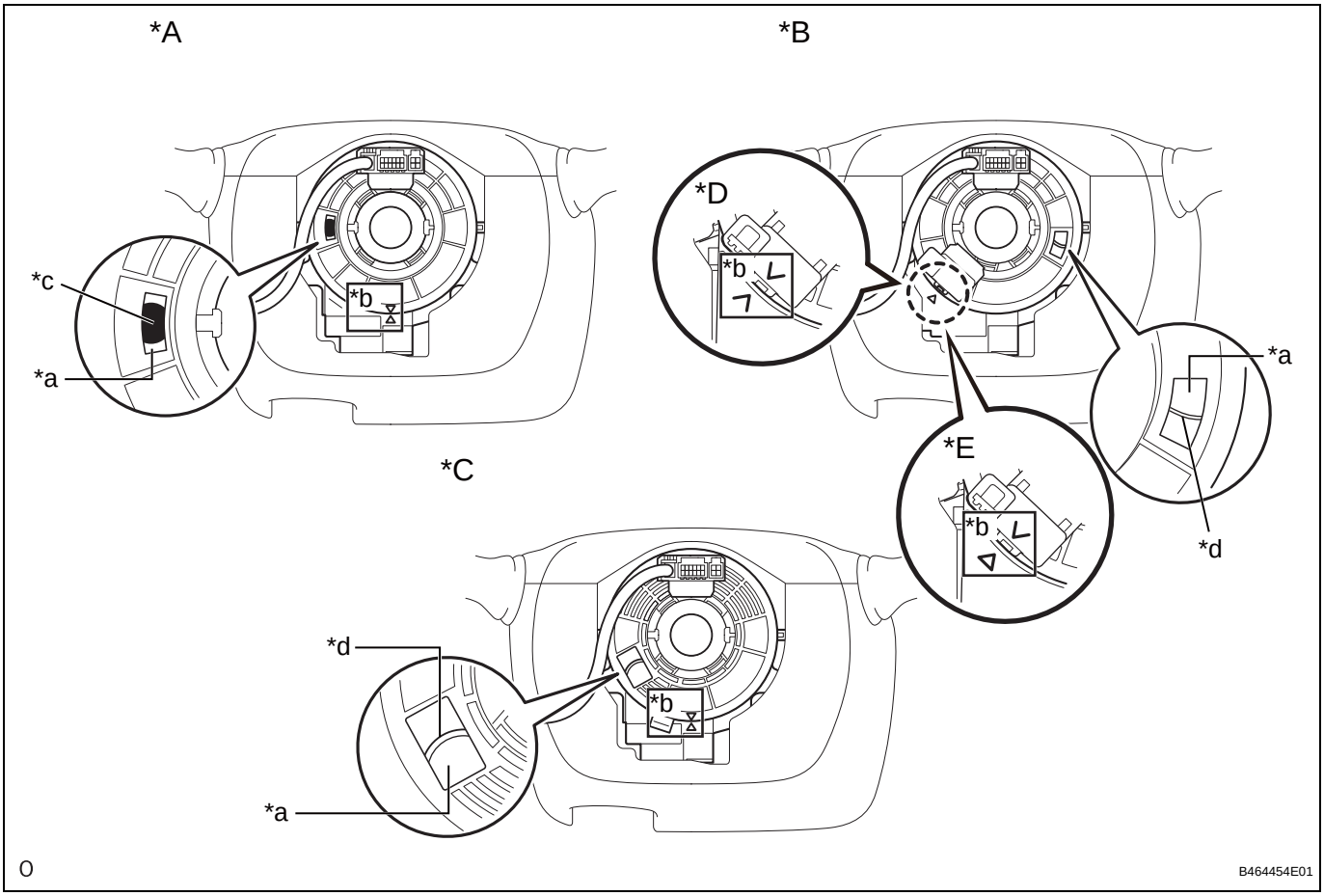
NOTICE:
If the connector is rotated clockwise from the bottom 5 times or more, the spiral cable sub-assembly may be damaged.

(g) Check that the spiral cable sub-assembly is center position.

OK:

The connector is at the top.
The matchmarks are aligned.
The colored roller or the top of the flat cable U-turn can be checked from the check window.

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Text in Illustration

*A	Colored Roller (Visible Type)	*B	Flat Cable (Visible Type).w/ Steering Heater
*C	Flat Cable (Visible Type),w/o Steering Heater	*D	for Type A
*E	for Type B	-	-
*a	Check Window	*b	Matchmark
*c	Colored Roller	*d	Top of Flat Cable U-turn

NOTICE:
If the spiral cable sub-assembly cannot be centered, it is possible that the spiral cable sub-assembly is broken. Replace the spiral cable sub-assembly with a new one.

7. INSTALL STEERING WHEEL ASSEMBLY

(a) Install the steering wheel assembly (See*1).

See*1 STEERING COLUMN - STEERING WHEEL ASSEMBLY - INSTALLATION (2014/08-)

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