TOYOTA

SERVICE BULLETIN

Group: 12 No.: 12 Date: May 10

Yaris NCP90 / 91 / 93

Changes to Repair Manual SC0050E (Aug 05 – Jul 08)

Changes have been made to Toyota Yaris Repair Manual SC0050E with production date range (Aug 05 to Jul 08).

Publication	Section	Title	Paragraph
SC0050E	Service Specifications	Steering Column	Torque Specifications
		Power Steering	Torque Specifications
		Air Conditioning	Torque Specifications
	1NZ-FE Engine Mechanical	Engine Assembly	Components (2006/01-)
	2NZ-FE Engine Mechanical	Engine Assembly	Components (2006/01-)
	U340E Automatic Transaxle	Automatic Transaxle Assembly (for Sedan)	Components
	U441E Automatic Transaxle	Automatic Transaxle Assembly (for Sedan)	Components
	C54 Manual Transaxle	Manual Transaxle Assembly (for Sedan)	Components
	Suspension	Front Lower Suspension Arm (for 1NZ-FE RH Side, 2NZ-FE RH Side, 2ZR-FE RH Side)	Components
		Front Stabilizer Bar (for Sedan)	Components
	Brake	Brake Pedal Support (for Sedan)	Components
	Steering Column	Steering Column Assembly (for Sedan)	Components
			Installation
	Power Steering	Power Steering Gear (for Sedan)	Components
			Installation
	Air Conditioning	Air Conditioning Unit (for Sedan)	Components
			Installation
		Blower Unit (for Sedan)	Components

Changes follow on from this page. Changes are indicated by an arrow.

Please copy and file these pages with the above Repair Manual.

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STEERING COLUMN

SERVICE DATA

Steering wheel free play	Maximum	30 mm (1.18 in.)

TORQUE SPECIFICATIONS

for Hatchback

Part tightened	N*m	kgf*cm	ft.*lbf
Steering wheel assembly x Steering column	50	510	37
Steering sliding yoke sub-assembly x Steering gear assembly	28	290	21
Steering sliding yoke sub-assembly x No. 2 Steering intermediate shaft assembly	28	290	21
No. 2 Steering intermediate shaft assembly x Steering column assembly	28	290	21
Brake pedal x Brake pedal support sub-assembly	37	375	27
Steering column assembly x Instrument panel reinforcement assembly	25	255	18

[Corrected]

for Sedan

Part tightened	N*m	kgf*cm	ft.*lbf
Steering wheel assembly x Steering column	50	510	37
Steering sliding yoke sub-assembly x Steering gear assembly	35	360	26
Steering sliding yoke sub-assembly x No. 2 Steering intermediate shaft assembly	35	360	26
No. 2 Steering intermediate shaft assembly x Steering column assembly	35	360	26
Brake pedal x Brake pedal support sub-assembly	37	375	27
Steering column assembly x Instrument panel reinforcement assembly	25	255	18

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POWER STEERING

SERVICE DATA

Steering wheel		
Steering effort	Reference	5.5 N*m (56 kgf*cm, 49 in.*lbf)
Steering wheel free play	Maximum	30 mm (1.18 in.)

TORQUE SPECIFICATIONS

for Hatchback

Part Tightened		N*m	kgf*cm	ft.*lbf
Steering sliding yoke sub-assembly x No. 2 Steering intermediate shaft assembly		28	290	21
Steering sliding yoke sub-assembly x Power steering gear		28	290	21
Engine mounting x engine moving control rod		120	1,224	89
Front suspension crossmember sub-assembly x Body	Bolt A Bolt B Bolt C	70 160 95	714 1,631 969	52 118 70
Power steering gear x Front suspension crossmember sub-assembly		96	979	71
Power steering ECU x Instrument panel reinforcement		5.0	51	44 in.*lbf

[Corrected]

for Sedan

Part Tightened		N*m	kgf*cm	ft.*lbf
Steering sliding yoke sub-assembly x No. 2 Steering intermediate shaft assembly		35	360	26
Steering sliding yoke sub-assembly x Power steering gear		35	360	26
Engine mounting x engine moving control rod		120	1,224	89
Front suspension crossmember sub-assembly x Body	Bolt A Bolt B Bolt C	70 160 95	714 1,631 969	52 118 70
Power steering gear x Front suspension crossmember sub-assembly		96	979	71
Power steering ECU x Instrument panel reinforcement		5.0	51	44 in.*lbf

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TORQUE SPECIFICATIONS

Part Tightened	N*m	kgf*cm	ft.*lbf
Negative battery terminal x Battery	5.4	55	48 in.*lbf

AIR CONDITIONING UNIT (for Hatchback)

Part Tightened	N*m	kgf*cm	ft.*lbf
Cooler expansion valve x NO. 1 Cooler evaporator sub-assembly	3.5	36	31 in.*lbf
Smart ECU with bracket x Instrument panel reinforcement	3.2	33	28 in.*lbf
Smart ECU with bracket x Air conditioning unit	3.7	38	33 in.*lbf
Air conditioning unit x Body	9.8	100	87 in.*lbf
Air conditioning unit x Instrument panel reinforcement	4.0	41	35 in.*lbf
Ground wire x Instrument panel reinforcement	3.2	33	28 in.*lbf
Connector holder x Instrument panel reinforcement	3.2	33	28 in.*lbf
Main body ECU x Instrument panel reinforcement	3.2	33	28 in.*lbf
Instrument panel brace sub-assembly x Instrument panel reinforcement : for bolt	9.8	100	87 in.*lbf
Instrument panel brace sub-assembly x Instrument panel reinforcement : for nut	9.8	100	87 in.*lbf
Instrument panel brace sub-assembly x Air conditioning unit : for screw	9.8	100	87 in.*lbf
Steering sliding yoke sub-assembly x Steering column assembly : for bolt B	28	286	21
Steering sliding yoke sub-assembly x Power Steering assembly : for bolt A	28	286	21
Suction pipe and liquid tube x Cooler expansion valve	9.8	100	87 in.*lbf

AIR CONDITIONING UNIT (for Sedan)

[Corrected]

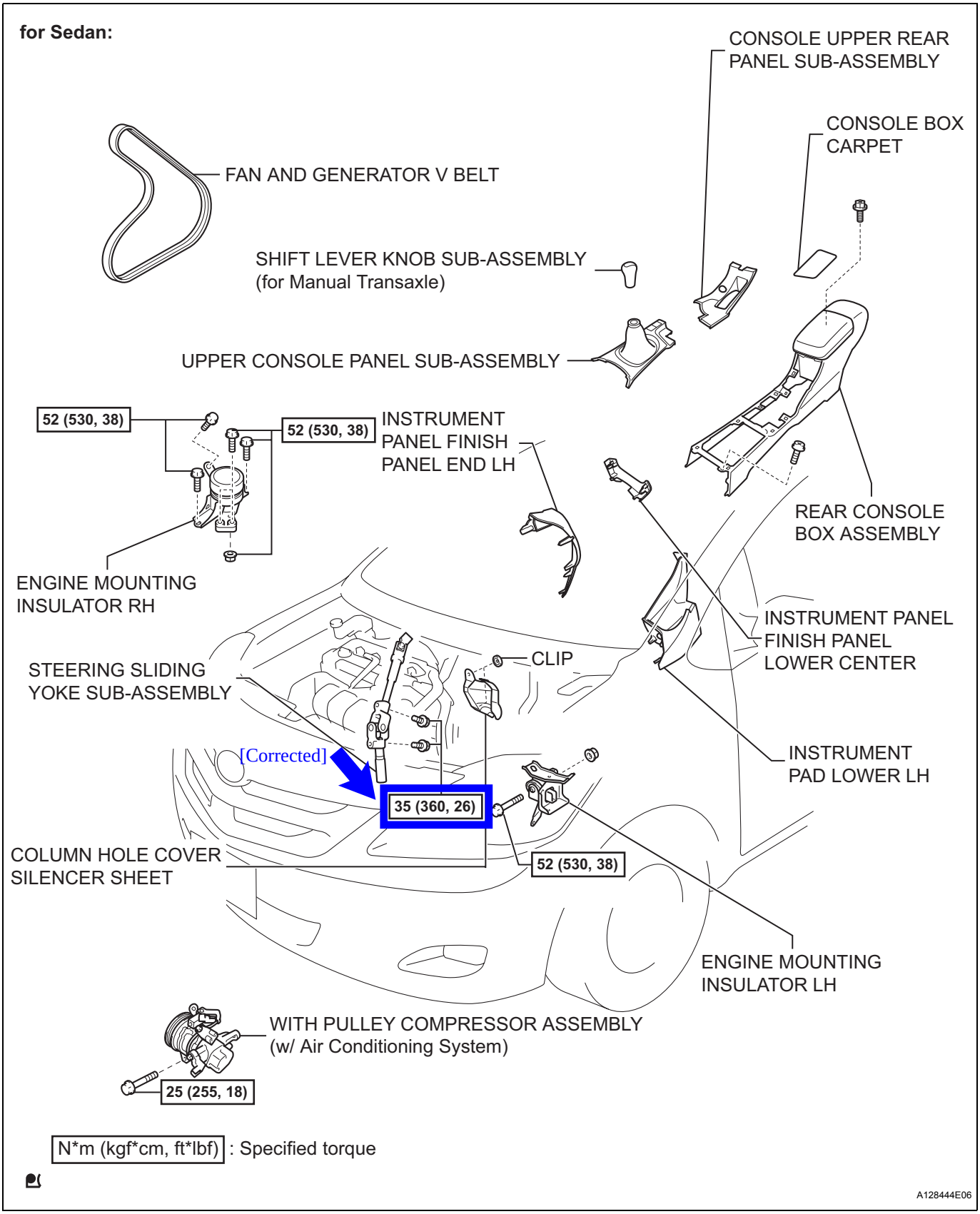
Part Tightened	N*m	kgf*cm	ft.*lbf
Cooler expansion valve x NO. 1 Cooler evaporator sub-assembly	3.5	36	31 in.*lbf
Smart ECU with bracket x Instrument panel reinforcement	3.2	33	28 in.*lbf
Smart ECU with bracket x Air conditioning unit	3.7	38	33 in.*lbf
Air conditioning unit x Body	9.8	100	87 in.*lbf
Air conditioning unit x Instrument panel reinforcement	4.0	41	35 in.*lbf
Ground wire x Instrument panel reinforcement	3.2	33	28 in.*lbf
Connector holder x Instrument panel reinforcement	3.2	33	28 in.*lbf
Main body ECU x Instrument panel reinforcement	3.2	33	28 in.*lbf
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Instrument panel brace sub-assembly x Air conditioning unit : for screw	9.8	100	87 in.*lbf
Steering sliding yoke sub-assembly x Steering column assembly : for bolt B	35	360	26
Steering sliding yoke sub-assembly x Power Steering assembly : for bolt A	35	360	26
Suction pipe and liquid tube x Cooler expansion valve	9.8	100	87 in.*lbf

COMPRESSOR AND PULLEY

Part Tightened	N*m	kgf*cm	ft.*lbf
Compressor and pulley x Oil pan sub-assembly	25	255	18
Stud bolt x Oil pan sub-assembly	15	153	11
NO. 1 cooler refrigerant discharge hose x Compressor and pulley	9.8	100	87 in.*lbf
NO. 1 cooler refrigerant suction hose x Compressor and pulley	9.8	100	87 in.*lbf

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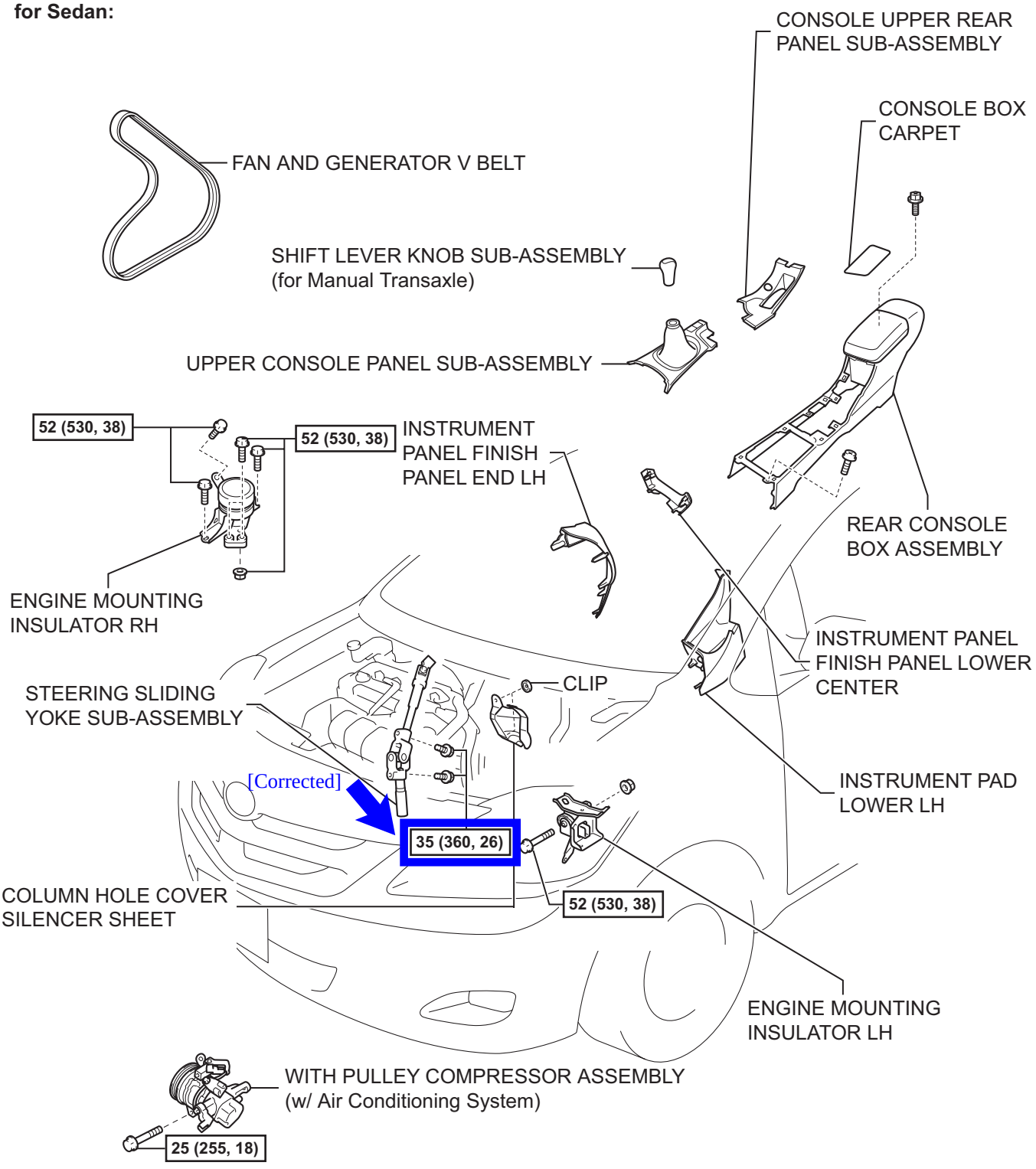


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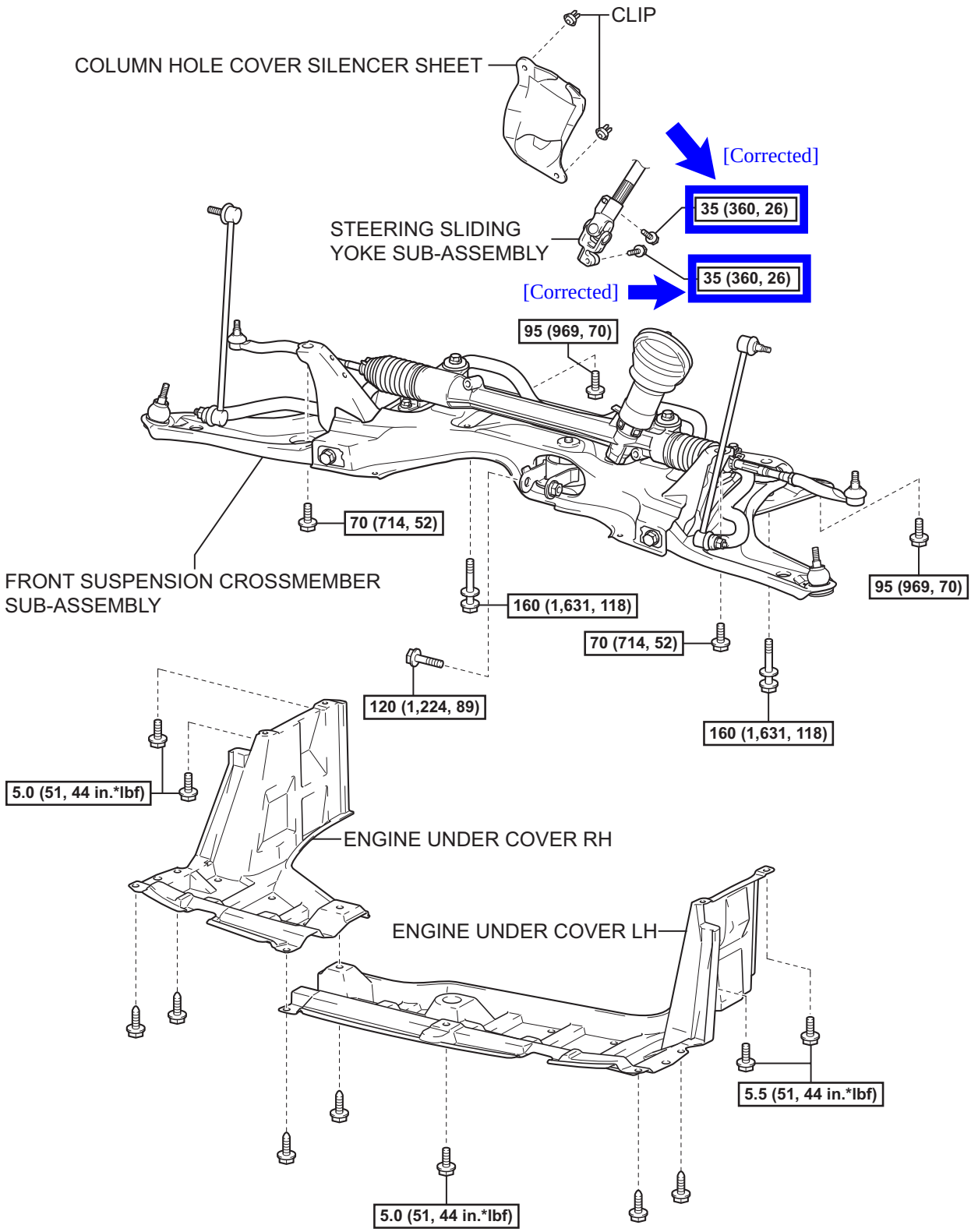
for Sedan:



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N*m (kgf*cm, ft*lbf) :Specified torque

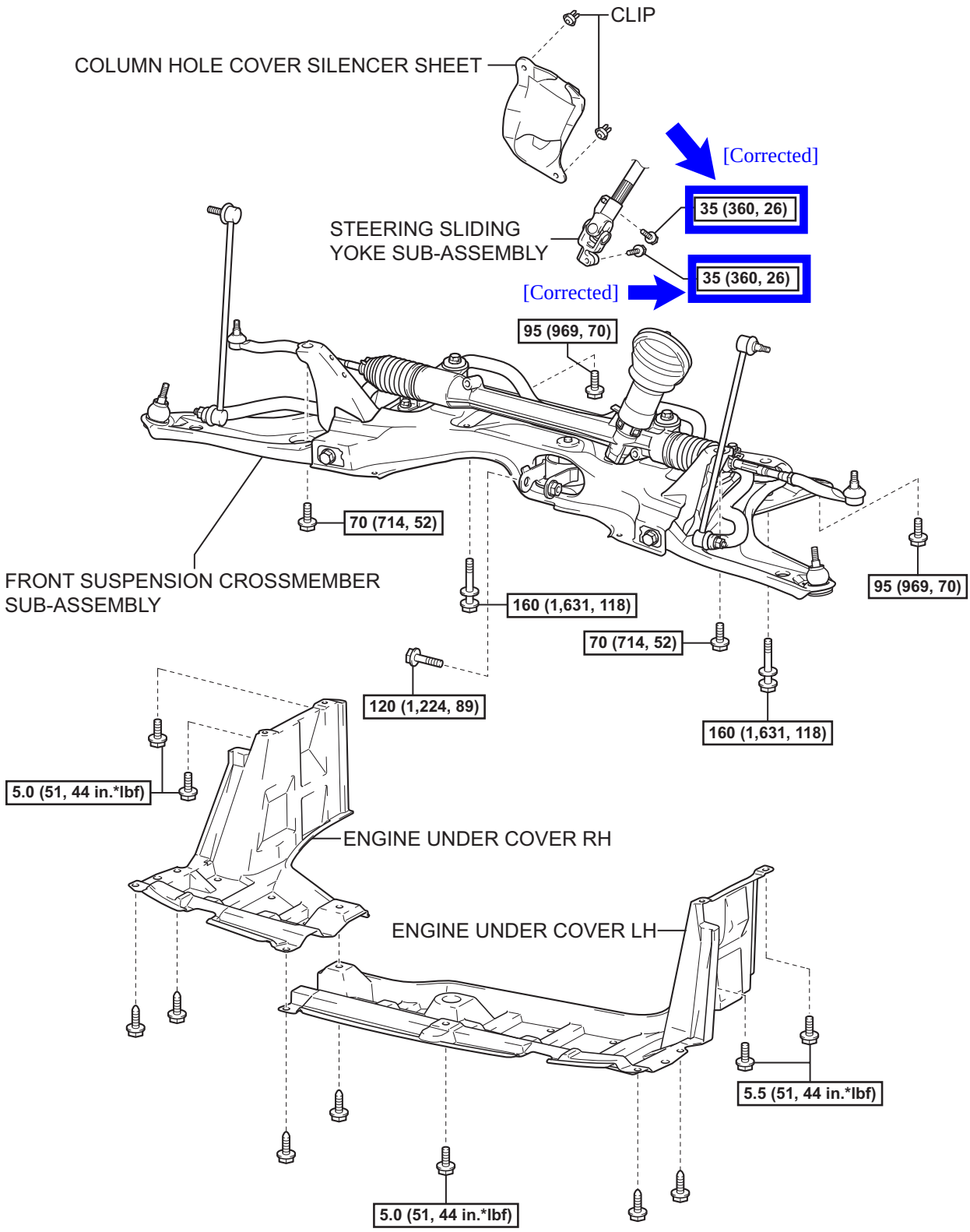
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N*m (kgf*cm, ft*lbf) :Specified torque

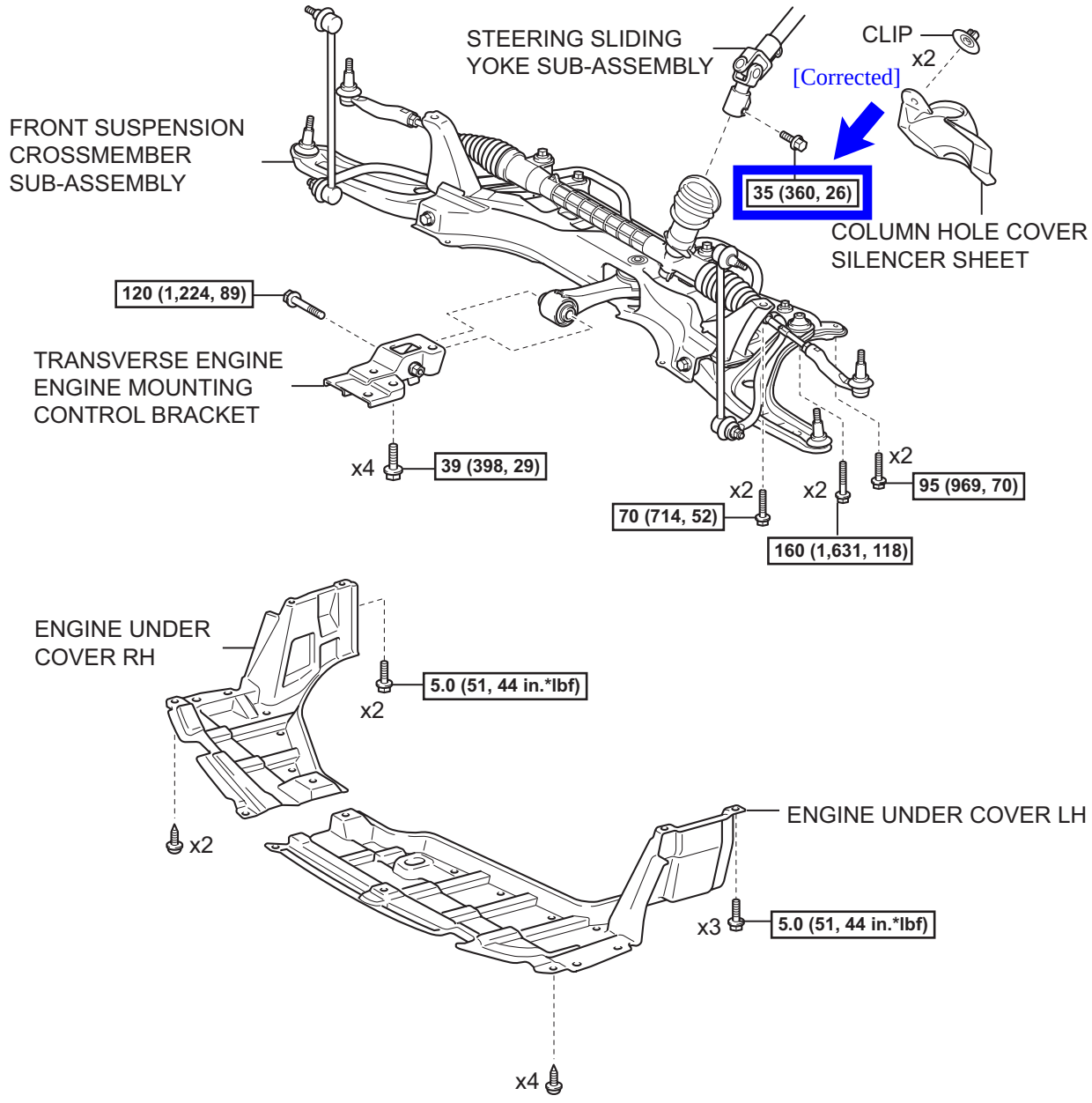
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MX

N*m (kgf*cm, ft*lbf) :Specified torque

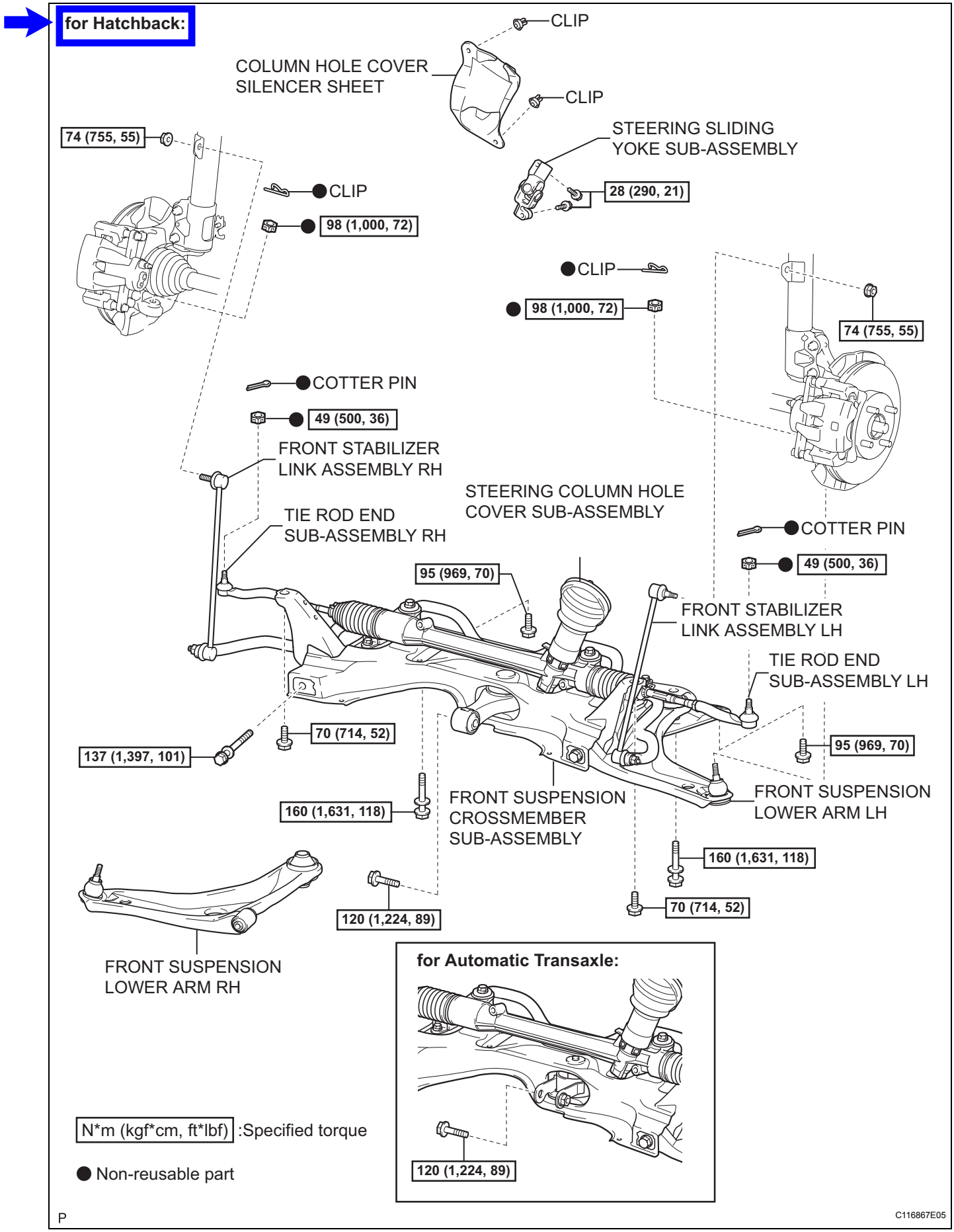
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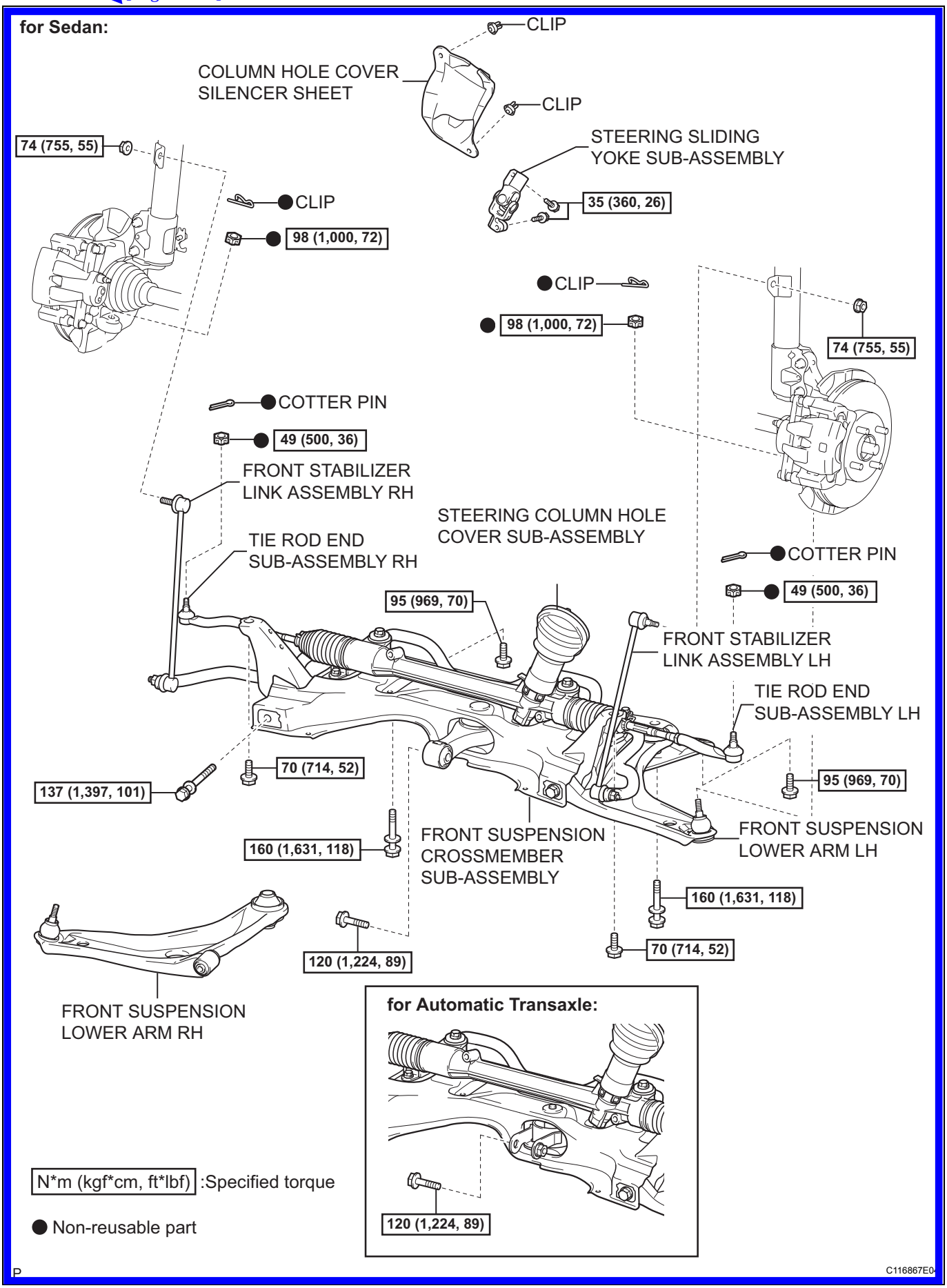


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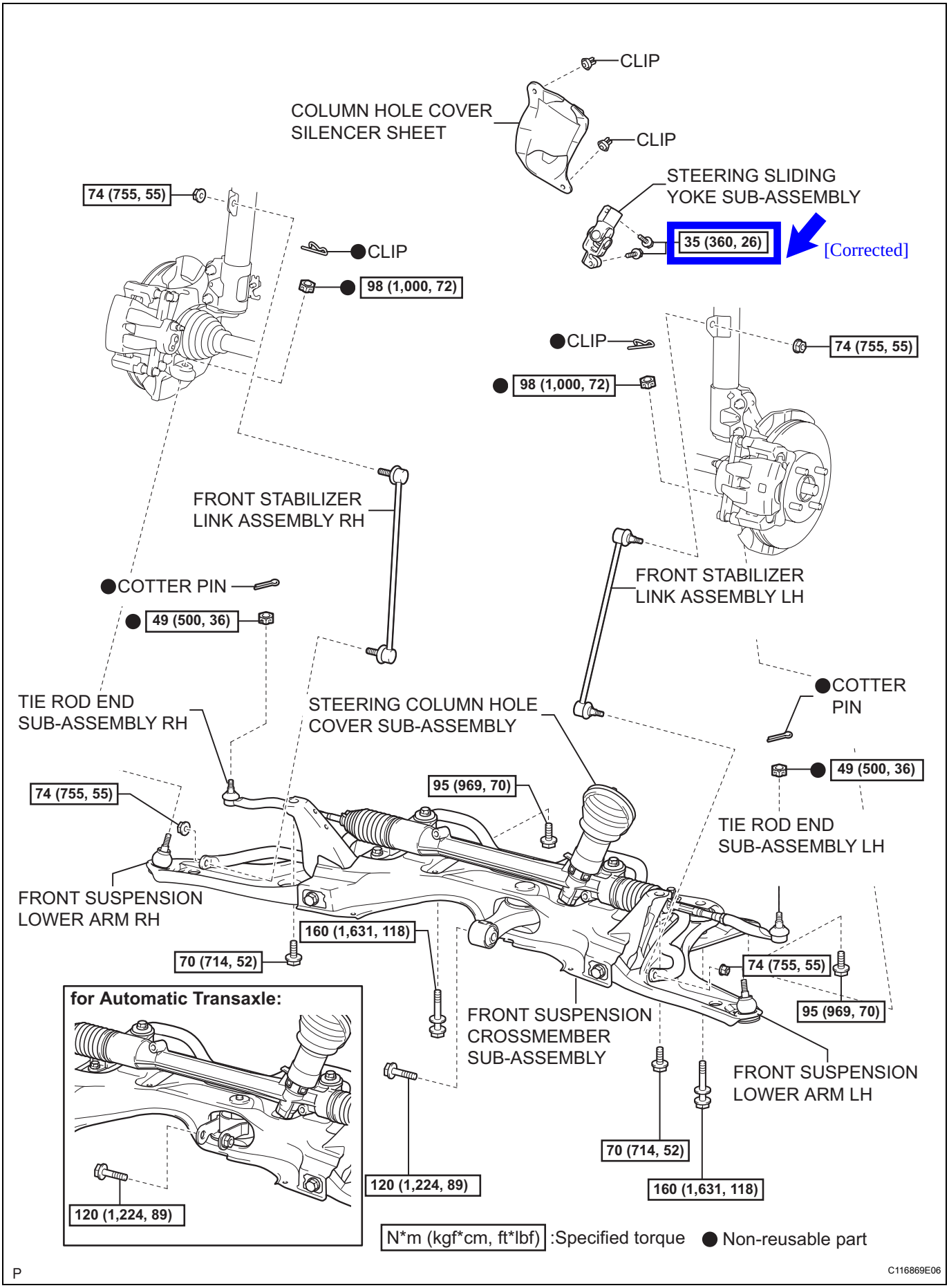
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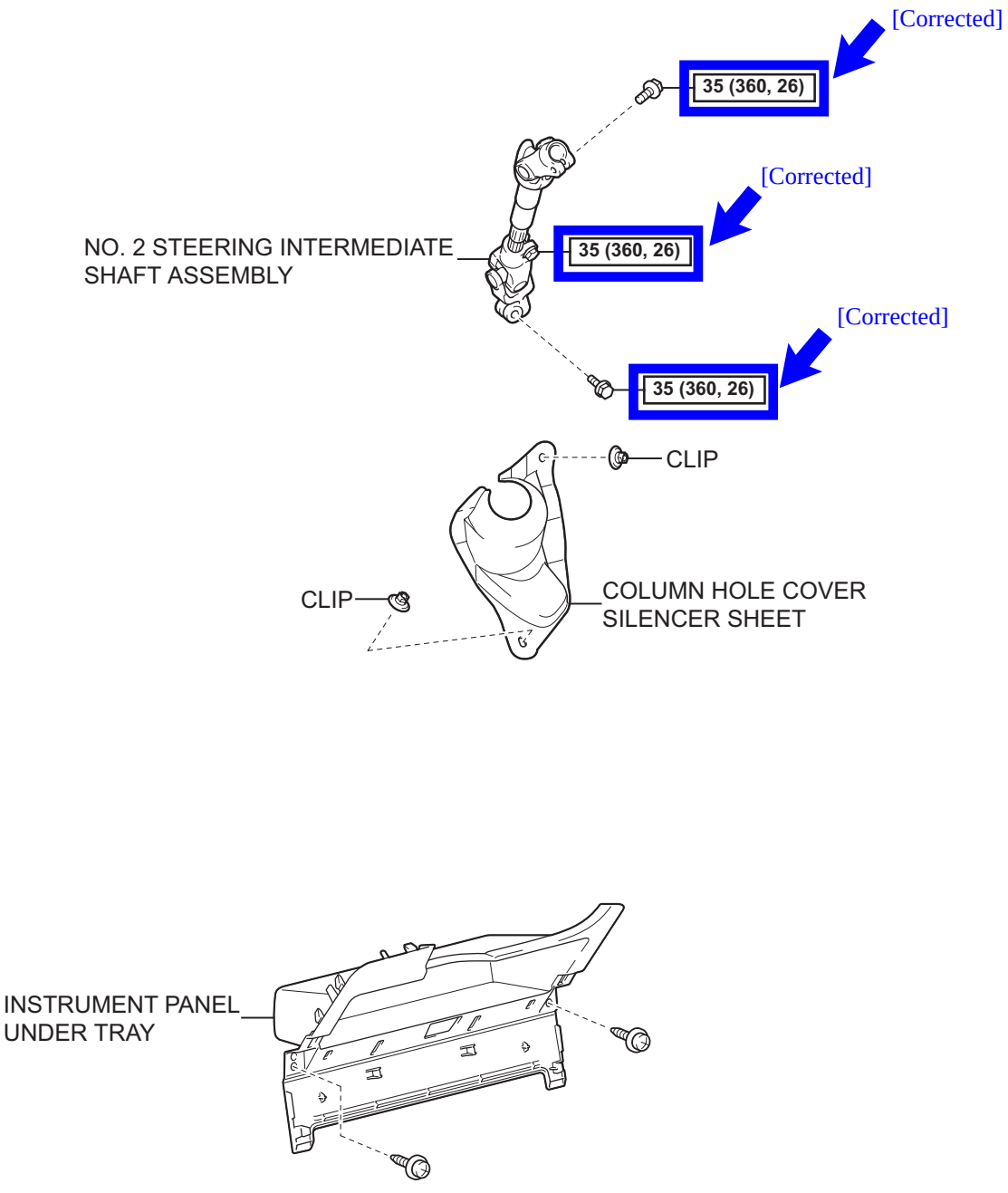
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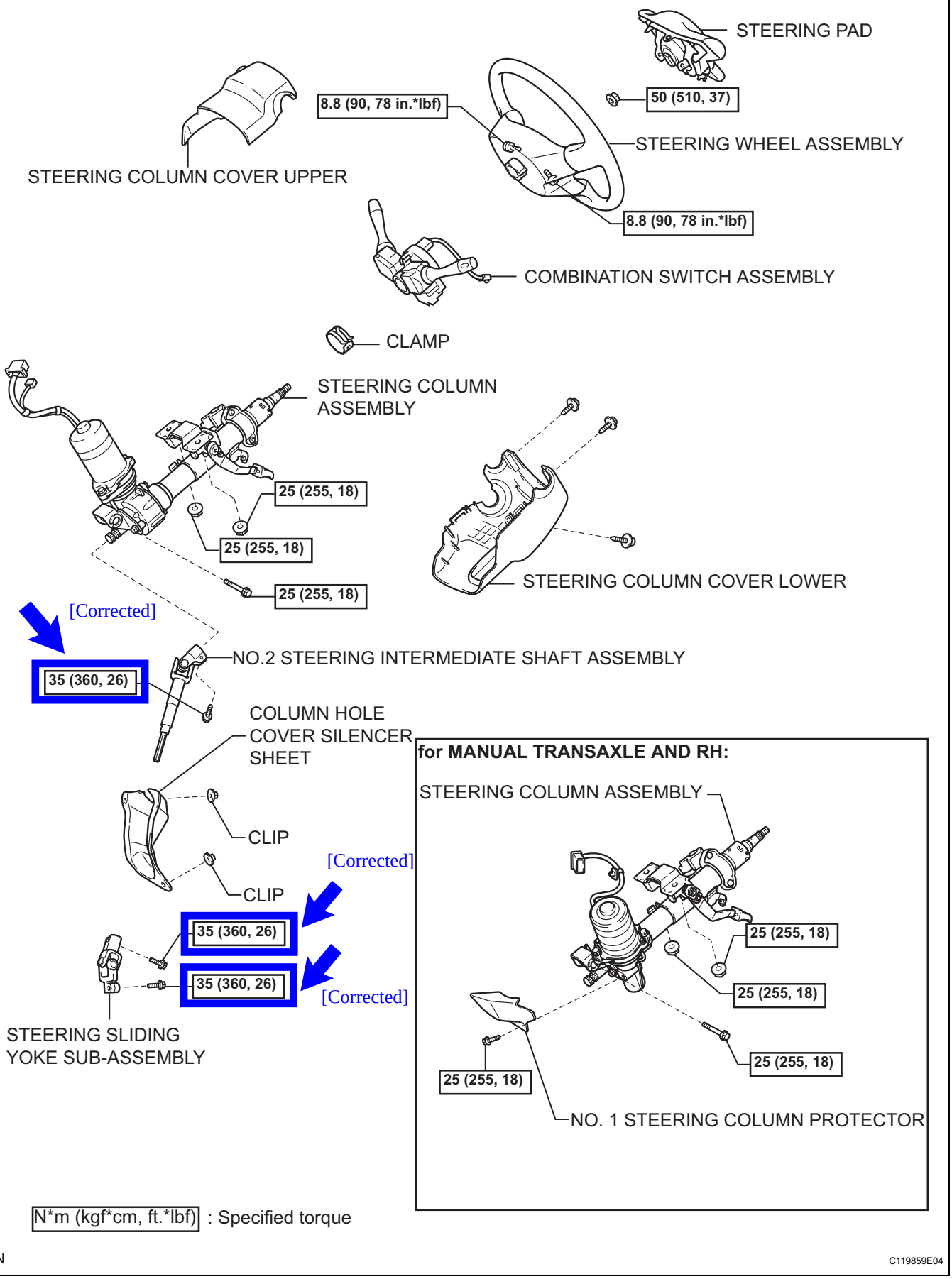
N*m (kgf*cm, ft*lbf) : Specified torque

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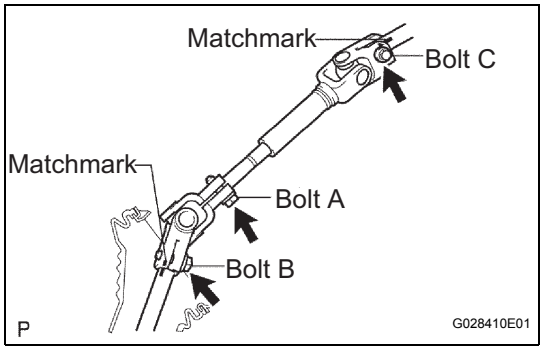
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4. **INSTALL BRAKE MASTER CYLINDER PUSH ROD CLEVIS (for Manual Transaxle) (See page BR-70)**

5. **INSTALL NO.2 STEERING INTERMEDIATE SHAFT ASSEMBLY**
   (a) Connect all the connectors and clamp the wire harnesses onto the steering post assembly bracket.
   (b) Align the matchmarks on No. 2 steering intermediate shaft assembly and the steering sliding yoke and provisionally install them with bolt C.

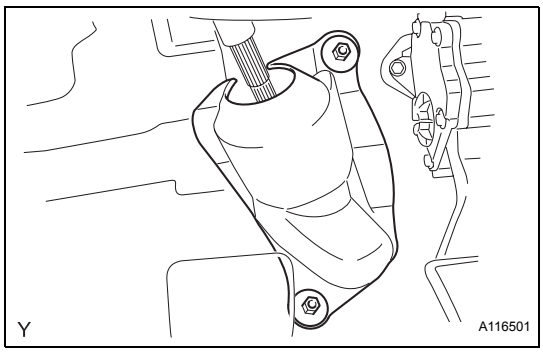
[Corrected] **Torque: 35 N*m (360 kgf*cm, 26 ft.*lbf)**

   (c) Align the matchmarks on the steering sliding yoke and steering gear assembly and install them with bolt B.

[Corrected] **Torque: 35 N*m (360 kgf*cm, 26 ft.*lbf)**

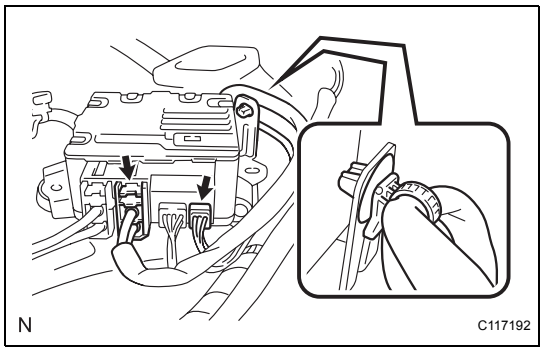
   (d) Tighten bolt A.

Torque: 35 N*m (360 kgf*cm, 26 ft.*lbf) [Corrected]



6. **INSTALL COLUMN HOLE COVER SILENCER SHEET**
   (a) Install the column hole cover plate with the 2 clips.
   (b) Install the floor carpet.

7. **INSTALL INSTRUMENT PANEL UNDER TRAY (See page IP-56)**



8. **INSTALL POWER STEERING ECU**
   (a) Connect the 2 steering post assembly connectors to the power steering ECU.
   (b) Install the power steering motor harness and torque sensor wire harness clamps onto the side of the power steering ECU.
   (c) Tilt the steering post assembly up and down to make sure that the power steering motor harness and torque sensor wire harness do not interfere with any components.

9. **INSTALL UPPER INSTRUMENT PANEL SUB-ASSEMBLY (See page IP-12)**

10. **INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY (See page IP-13)**

11. **INSTALL FRONT PILLAR GARNISH RH (See page IR-30)**

12. **INSTALL FRONT PILLAR GARNISH LH (See page IR-30)**

13. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH (See page IP-14)**

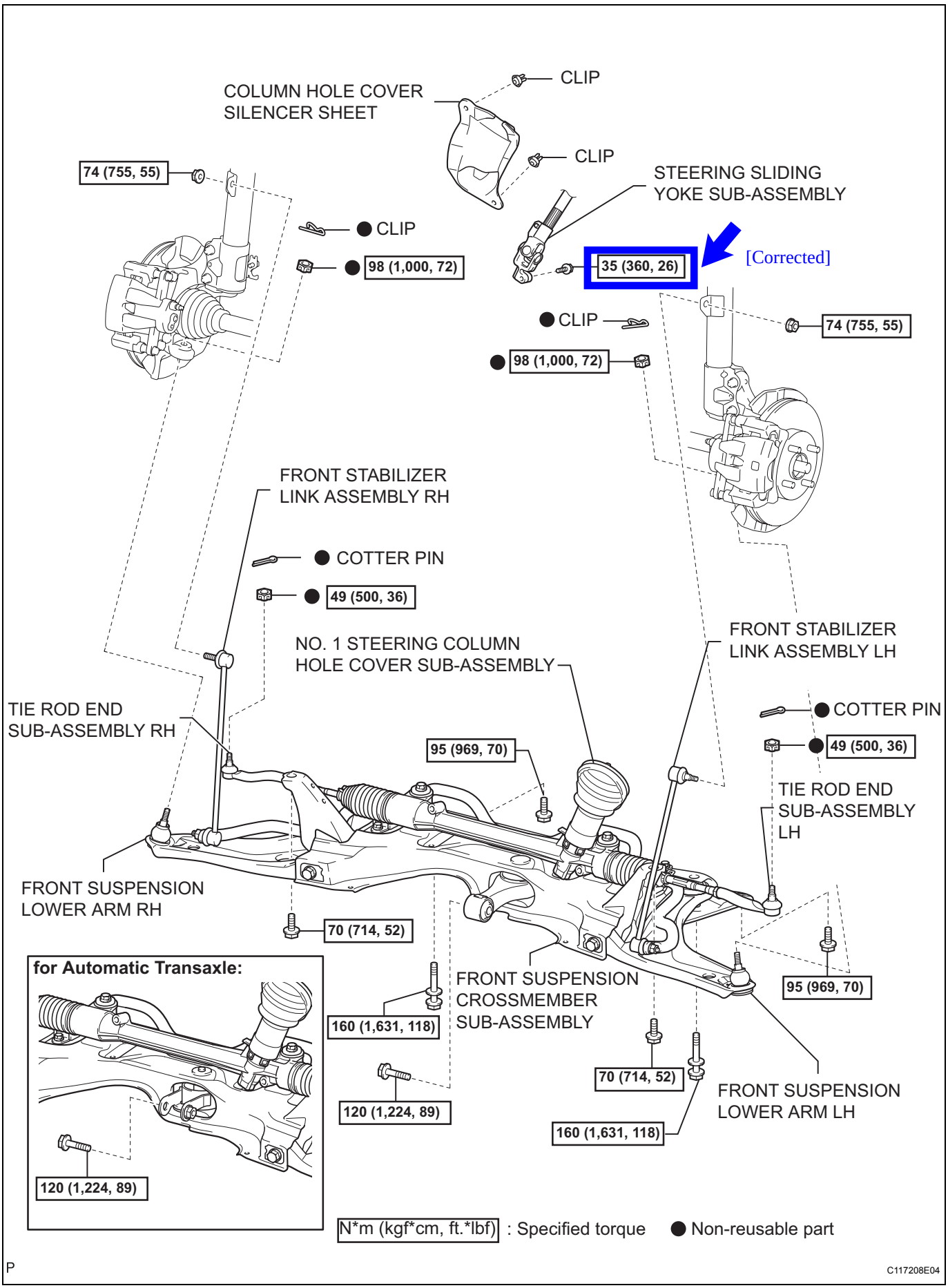
14. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH (See page IP-14)**

15. **INSTALL COMBINATION METER ASSEMBLY (See page ME-183)**

SR

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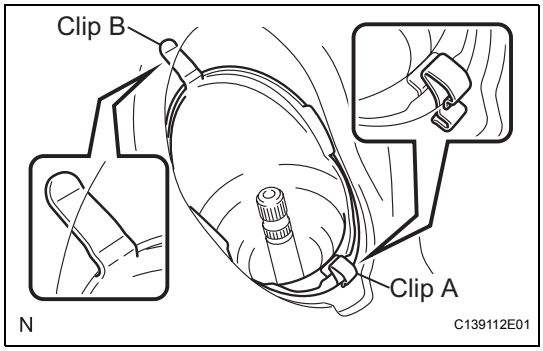
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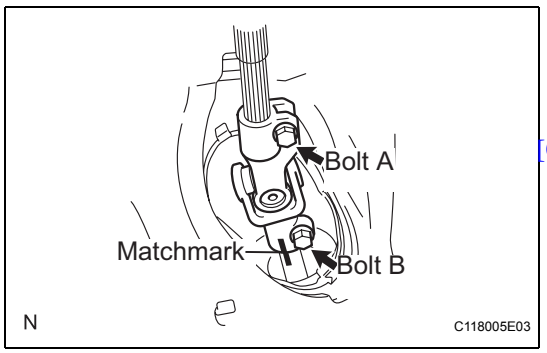


10. INSTALL NO.1 STEERING COLUMN HOLE COVER SUB-ASSEMBLY

(a) Install clip B onto the body portion and install No. 1 steering column hole cover sub-assembly onto the body portion with clip A.

NOTICE:

Make sure that the lip portion of No. 1 steering column hole cover sub-assembly is not damaged.



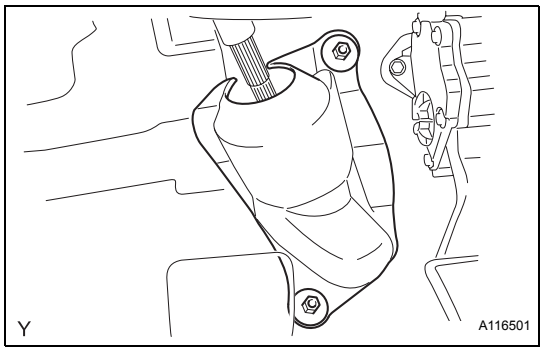
11. INSTALL STEERING SLIDING YOKE SUB-ASSEMBLY

(a) Align the matchmarks and install the sliding yoke onto the intermediate shaft.

[Corrected] **Torque: 35 N*m (360 kgf*cm, 26 ft.*lbf)**

(b) Tighten bolt A.

Torque: 35 N*m (360 kgf*cm, 26 ft.*lbf) [Corrected]



12. INSTALL COLUMN HOLE COVER SILENCER SHEET

(a) Install the column hole cover silencer sheet with the 2 clips.

(b) Install the floor carpet.

13. INSTALL COWL TOP PANEL OUTER (See page EM-267)

14. INSTALL FRONT AIR SHUTTER SEAL (See page EM-268)

15. INSTALL FRONT WIPER MOTOR AND LINK (See page WW-17)

16. INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (for RHD) (See page WW-18)

17. INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY (for LHD) (See page WW-18)

18. INSTALL COWL SIDE VENTILATOR SUB-ASSEMBLY LH (See page WW-18)

19. INSTALL COWL SIDE VENTILATOR SUB-ASSEMBLY RH (See page WW-18)

20. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY LH (See page WW-19)

21. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY RH (See page WW-20)

22. INSTALL FRONT WIPER ARM HEAD CAP (See page WW-20)

23. PROVISIONALLY TIGHTEN HOOD SUB-ASSEMBLY

(a) Provisionally install the hood with the 4 bolts.

HINT:

Tighten the bolts to the specified torque after inspecting the hood.

24. INSPECT HOOD SUB-ASSEMBLY (See page ED-1)

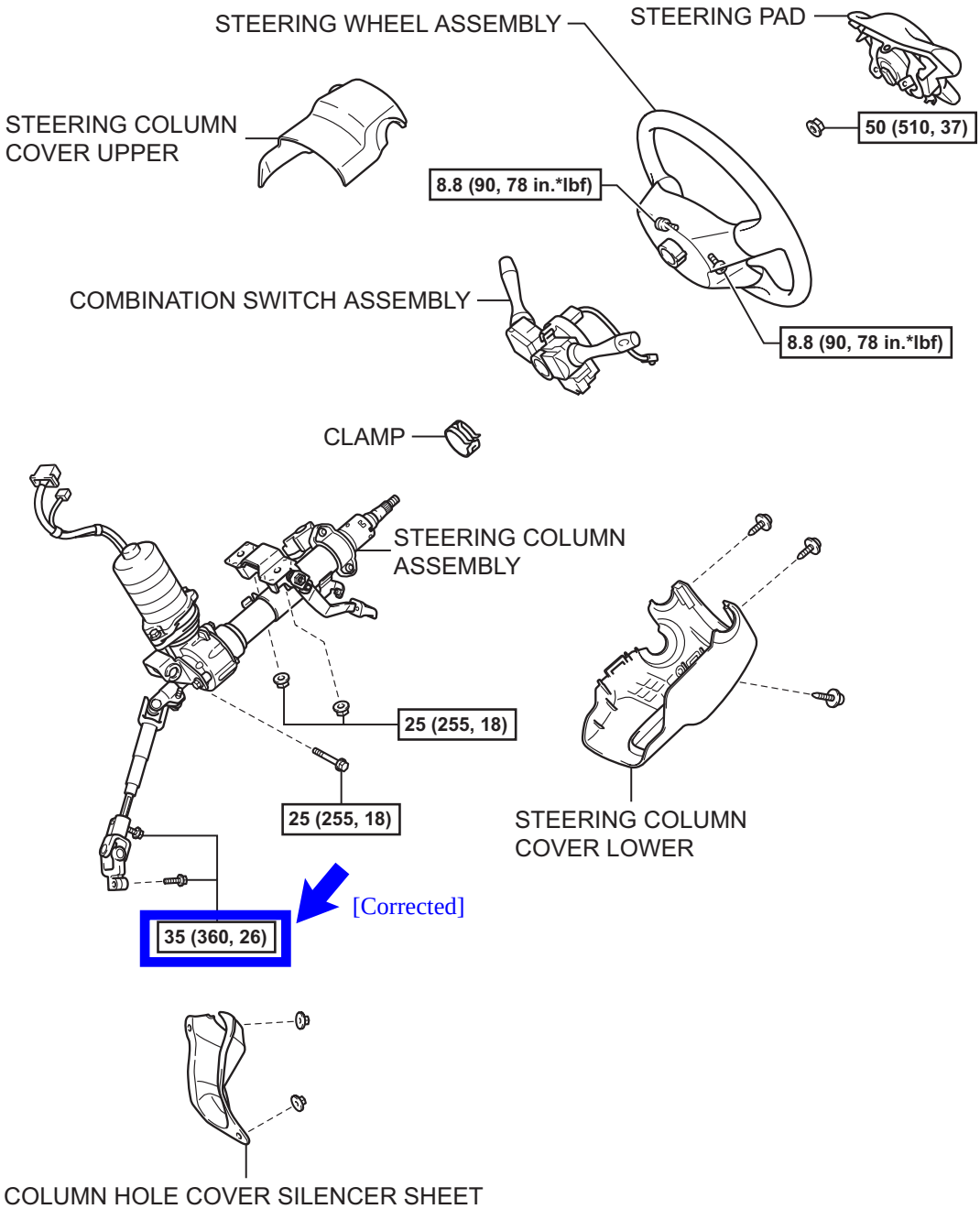
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AC

for LHD:



N*m (kgf*cm, ft*lbf) : Specified torque

N

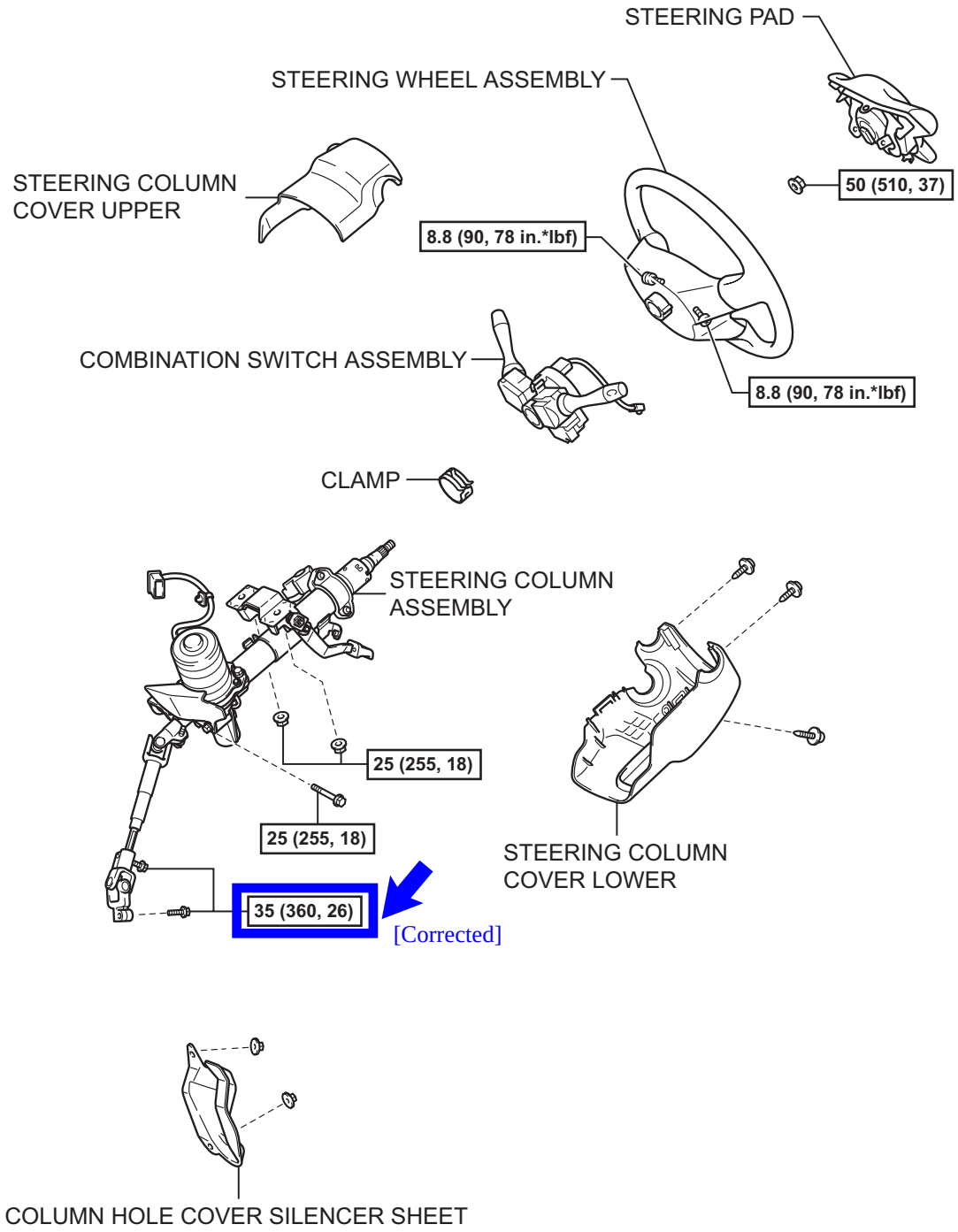
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AC

for RHD:



N*m (kgf*cm, ft*lbf) : Specified torque

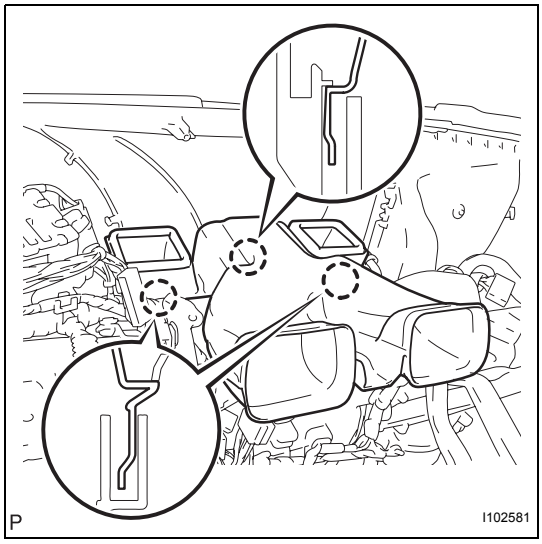
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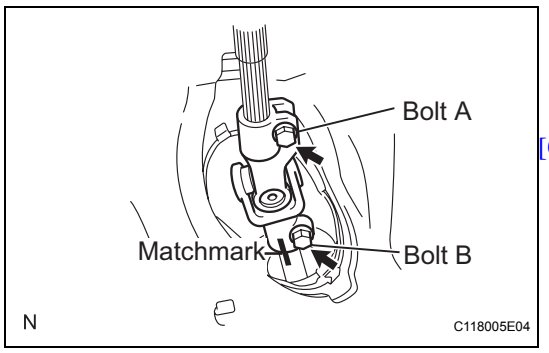
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AC



10. **INSTALL HEATER TO REGISTER DUCT ASSEMBLY**
    (a) Engage the 3 claws and install the heater to register duct.
11. **INSTALL STEERING COLUMN ASSEMBLY (See page SR-67)**
12. **INSTALL BRAKE PEDAL SUPPORT SUB-ASSEMBLY (for Manual Transaxle) (See page BR-70)**
13. **INSTALL BRAKE MASTER CYLINDER PUSH ROD CLEVIS (for Manual Transaxle) (See page BR-70)**
14. **INSTALL BRAKE PEDAL (for Automatic Transaxle) (See page SR-67)**



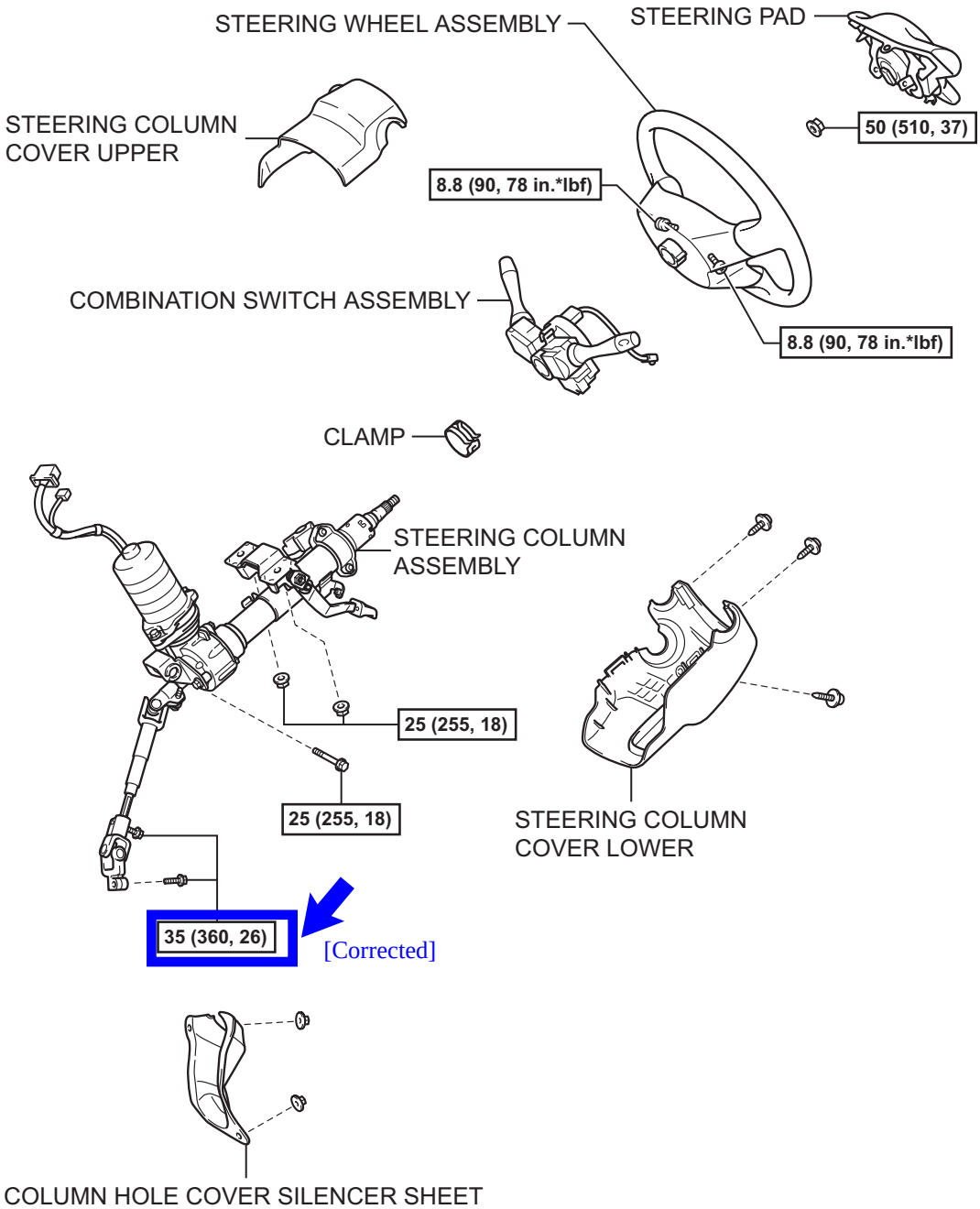
15. **INSTALL STEERING SLIDING YOKE SUB-ASSEMBLY**
    (a) Align the matchmarks and install the sliding yoke onto the power steering assembly with bolt B.
    [Corrected] **Torque: 35 N*m (360 kgf*cm, 26 ft.*lbf)**
    (b) Tighten bolt A.
    Torque: 35 N*m (360 kgf*cm, 26 ft.*lbf) [Corrected]
16. **INSTALL COLUMN HOLE COVER SILENCER SHEET (See page SR-68)**
17. **CONNECT POWER STEERING ECU (See page SR-68)**
18. **INSTALL COMBINATION SWITCH ASSEMBLY (See page SR-69)**
19. **INSTALL STEERING COLUMN COVER (See page SR-69)**
20. **INSTALL STEERING WHEEL ASSEMBLY (See page SR-69)**
21. **INSTALL STEERING PAD (See page RS-225)**
22. **INSTALL LOWER INSTRUMENT PANEL SUB-ASSEMBLY (See page IP-53)**
23. **CONNECT HOOD LOCK CONTROL LEVER SUB-ASSEMBLY (See page IP-55)**
24. **CONNECT ANTENNA CORD SUB-ASSEMBLY (See page IP-55)**
25. **INSTALL INSTRUMENT PANEL BOX (See page IP-55)**
26. **INSTALL INSTRUMENT PANEL UNDER TRAY (See page IP-56)**
27. **INSTALL INSTRUMENT PAD LOWER RH (See page IP-56)**
28. **INSTALL INSTRUMENT PAD LOWER LH (See page IP-57)**
29. **INSTALL REAR CONSOLE BOX ASSEMBLY (See page IP-95)**
30. **INSTALL CONSOLE BOX CARPET (See page IP-95)**
31. **INSTALL CONSOLE UPPER REAR PANEL SUB-ASSEMBLY (See page IP-96)**

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AC

for LHD:



N*m (kgf*cm, ft*lbf) : Specified torque

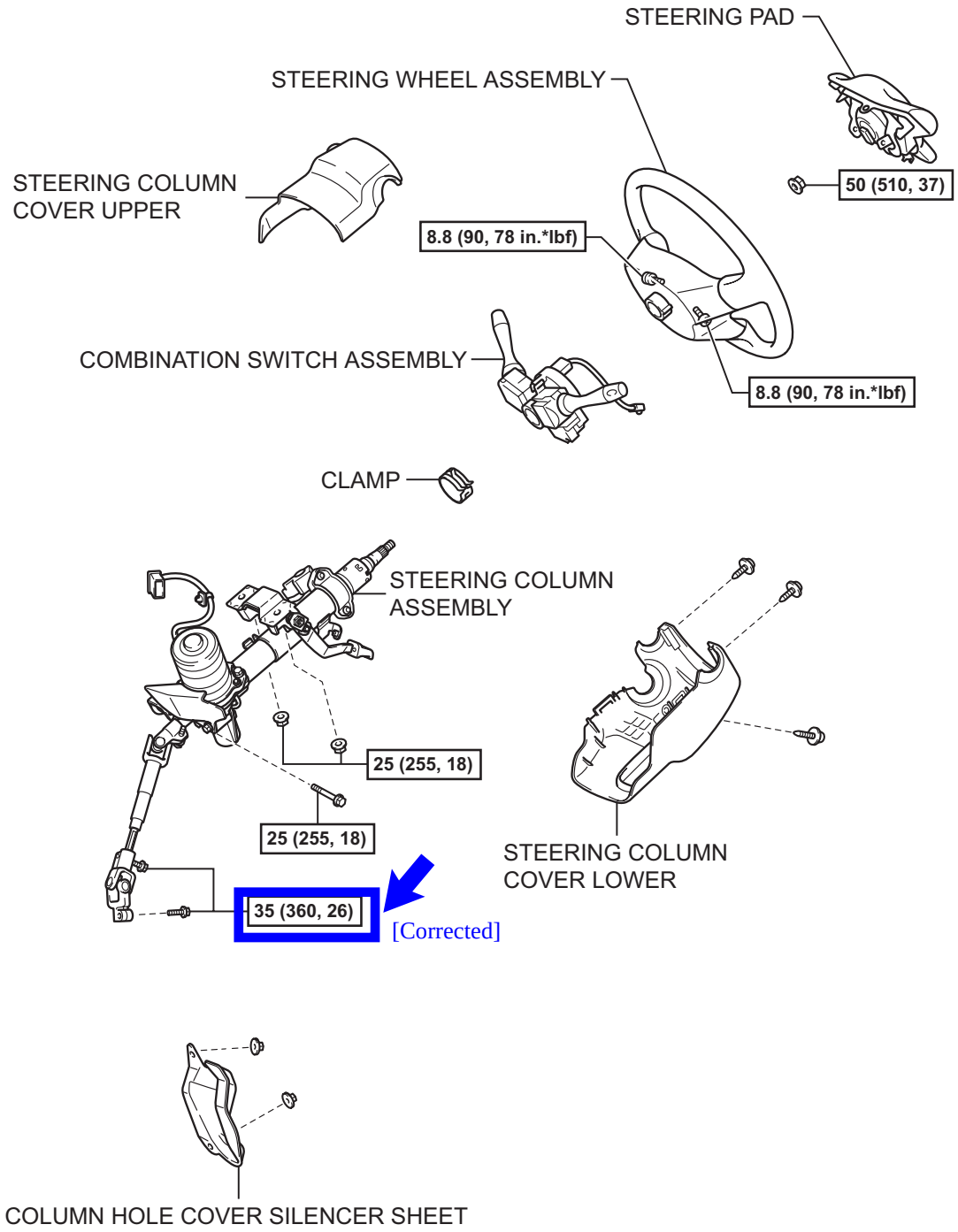
N

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for RHD:



N*m (kgf*cm, ft*lbf) : Specified torque

N

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