TOYOTA SERVICE BULLETIN
Group: 07 No.: 03 Date: Feb, 14

RAV4

Corrections to Repair Manual RM01N3E

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
Please see the attached list (pages 2-3).		

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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Section	Title	Paragraph
SERVICE SPECIFICATIONS	2GR-FE ENGINE MECHANICAL	TORQUE SPECIFICATIONS
	SUSPENSION	TORQUE SPECIFICATIONS
2AD-FHV ENGINE CONTROL SYSTEM	CRANKSHAFT POSITION SENSOR	COMPONENTS
2AD-FTV ENGINE CONTROL SYSTEM	CRANKSHAFT POSITION SENSOR	COMPONENTS
2GR-FE ENGINE CONTROL SYSTEM	CRANKSHAFT POSITION SENSOR	COMPONENTS
2AD-FHV ENGINE MECHANICAL	DRIVE BELT	COMPONENTS
		INSTALLATION
2AD-FTV ENGINE MECHANICAL	DRIVE BELT	COMPONENTS
		INSTALLATION
1AZ-FE ENGINE MECHANICAL	DRIVE BELT	COMPONENTS
		INSTALLATION
	TIMING CHAIN	COMPONENTS
	CYLINDER HEAD	COMPONENTS
	ENGINE ASSEMBLY	COMPONENTS
2AZ-FE ENGINE MECHANICAL	DRIVE BELT	COMPONENTS
		INSTALLATION
	TIMING CHAIN	COMPONENTS
	CYLINDER HEAD	COMPONENTS
	ENGINE ASSEMBLY	COMPONENTS
2GR-FE ENGINE MECHANICAL	DRIVE BELT	COMPONENTS
		INSTALLATION
	ENGINE FRONT OIL SEAL	COMPONENTS
2AD-FHV COOLING	WATER PUMP	COMPONENTS
2AD-FTV COOLING	WATER PUMP	COMPONENTS
1AZ-FE COOLING	WATER PUMP	COMPONENTS
2AZ-FE COOLING	WATER PUMP	COMPONENTS
2GR-FE COOLING	THERMOSTAT	COMPONENTS

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Section	Title	Paragraph
1AZ-FE LUBRICATION	OIL PUMP	COMPONENTS
2AZ-FE LUBRICATION	OIL PUMP	COMPONENTS
2AD-FHV CHARGING	GENERATOR	COMPONENTS
2AD-FTV CHARGING	GENERATOR	COMPONENTS
1AZ-FE CHARGING	GENERATOR	COMPONENTS
2AZ-FE CHARGING	GENERATOR	COMPONENTS
2GR-FE CHARGING	GENERATOR	COMPONENTS
DIFFERENTIAL	REAR DIFFERENTIAL CARRIER ASSEMBLY	INSTALLATION(2005/11-2007/01)
		INSTALLATION(2007/01-2007/08)
		INSTALLATION(2007/08-)
SUSPENSION	FRONT STABILIZER BAR	COMPONENTS
		INSTALLATION(2005/11-2007/01)
		INSTALLATION(2007/01-2007/08)
		INSTALLATION(2007/08-)
	FRONT SUSPENSION LOWER NO. 1 ARM (for Automatic Transaxle)	INSTALLATION(2005/11-2007/01)
		INSTALLATION(2007/01-2007/08)
		INSTALLATION(2007/08-)
AIR CONDITIONING	COMPRESSOR AND MAGNETIC CLUTCH (for 2GR-FE)	COMPONENTS

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TORQUE SPECIFICATIONS

SS

Part Tightened		N*m	kgf*cm	ft.*lbf
Front suspension member reinforcement RH x Front crossmember		96 [Corrected]	979	71
Front suspension member reinforcement RH x Front suspension crossmember		99	1010	73
Radiator reservoir tank x Bract		5.0	51	44 in.*lbf
Engine coolant temperature sensor x Water outlet		20	204	14
Engine oil pressure sensor x Oil pan		21	214	15 [Corrected]
No. 1 front engine mounting bracket LH x Timing chain cover		54	551	40
No. 2 idler pulley x Timing chain cover		43	438	32
No. 2 timing gear cover x Timing chain cover		6.0	61	53 in.*lbf
V-ribbed belt tensioner x Timing chain cover		43	438	32
V-ribbed belt tensioner x Cylinder block		43	438	32
Drive shaft bearing bracket x Cylinder block		64	653	47
Exhaust manifold LH x Cylinder head		21	214	15
No. 2 exhaust heat insulator x Exhaust manifold		8.5	87	75 in.*lbf
No. 2 manifold stay x Exhaust manifold		34	347	25
No. 2 manifold stay x Cylinder block		34	347	25
No. 1 oil dipstick guide x Cylinder block		21	214	15
No. 2 oil dipstick guide x Cylinder head		21	214	15
Exhaust manifold RH x Cylinder head		21	214	15
Intake manifold x Cylinder head		21	214	15
No. 2 engine mounting stay RH x Intake manifold		20	204	15
No. 2 engine mounting stay RH x Timing chain cover		20	204	15
Ignition coil x Cylinder head cover		10	102	7
Intake air surge tank x Intake manifold	5 mm hexagon wrench	18	184	13
	for Bolt	21	214	15
	for Nut	16	163	12
Drive plate and ring gear x Crankshaft		83	847	61
Engine mounting bracket RR x Engine mounting insulator RR		95	969	70
Engine mounting bracket FR x Engine mounting insulator FR		145	1478	107
Engine mounting bracket LH x Engine mounting insulator LH		56	571	41
Engine mounting insulator RH x Front No. 1 engine mounting bracket	for Bolt and nut A	95	969	70
	for Nut B	52	530	38
Front crossmember x Body	for Bolt A	96	978	71
Front suspension member x Body	for Bolt B	145	1478	107
Front suspension member brace rear x Body	for Bolt C	145	1478	107
	for Bolt D	93	948	69
Air cleaner case x Engine mounting insulator LH		5.0	51	44 in.*lbf
Battery bracket reinforcement x Body		19	194	14
Front battery bracket x Body		19	194	14
Front battery bracket x Battery bracket reinforcement		19	194	14
Battery clamp x Body	for Bolt	17	168	12
	for Nut	4.9	50	43 in.*lbf

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Rear wheel alignment	Toe-in (total)	A + B: C - D:	0°11' +-10' (0.18° +-0.17°) 2.3 +-1 mm (0.09 +-0.04 in.)
	Camber Right-left error	Tire size: 215/70R16*1	-0°58' +-45' (-0.97° +-0.75°) 45' (0.75°) or less
		Tire size: 225/65R17 235/55R18	-1°07' +-45' (-1.12° +-0.75°) 45' (0.75°) or less
		Australia	-0°52' +-45' (0.87° +-0.75°) 45' (0.75°) or less
Front suspension	Lower ball joint turning torque		0.98 to 3.43 N*m (10 to 35 kgf*cm, 9 to 30 in.*lbf) or less
	Stabilizer link turning torque		0.05 to 1.96 N*m, (0.5 to 20 kgf*cm, 0.4 to 17 in.*lbf) or less
Rear suspension	No. 1 suspension arm turning torque		3.4 N*m (35 kgf*cm, 30 in.*lbf)
	Stabilizer link turning torque		0.05 to 1.96 N*m, (0.5 to 20 kgf*cm, 0.4 to 17 in.*lbf) or less

SS

*1: Europe only
*2: Other

TORQUE SPECIFICATIONS

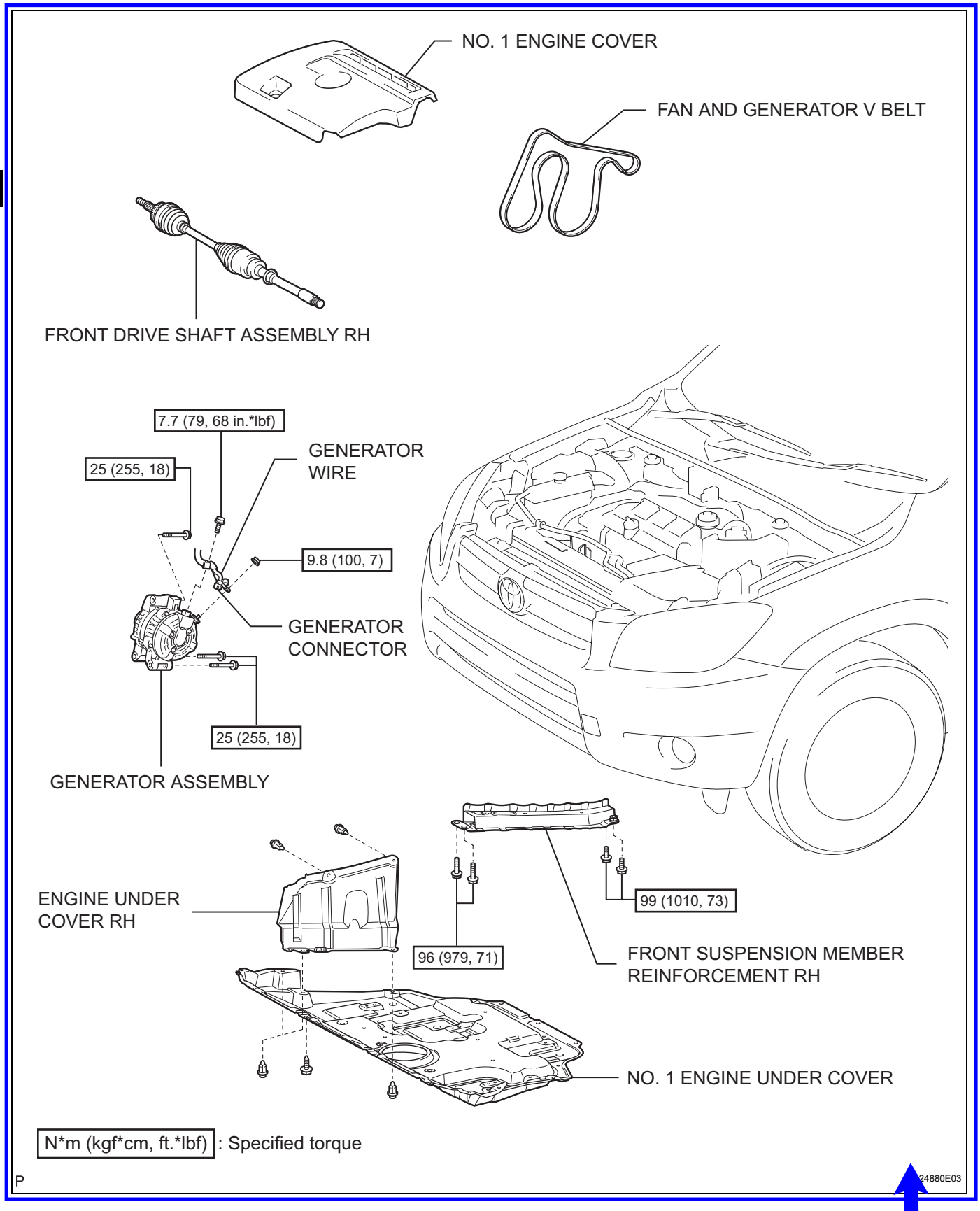
Part Tightened	N*m	kgf*cm	ft.*lbf
Front shock absorber nut x Piston rod	47	479	35
Front shock absorber with coil spring x Body	50	510	37
Front shock absorber x Stabilizer link	74	755	55
Front shock absorber x Steering knuckle	240	2,447	177
Front shock absorber x Front speed sensor wire	18.5	189	14
Hood bolt	13	133	10
Tie rod end x Steering knuckle	49	500	36
Front suspension crossmember x Lower No. 1 arm	233	2,376	172
Front suspension member brace rear (front side) x Body	145	1,479	107
Front suspension member brace rear (rear side) x Body	93	948	69
Front suspension lower No. 1 arm x Lower ball joint	92	938	68
Rear engine mounting insulator x Front suspension crossmember	95	969	70
Steering knuckle x Lower ball joint	133	1,356	98
Front axle hub nut	216	2,203	159
Front brake cylinder x steering knuckle	98	999	72
Front suspension crossmember x Front suspension member brace front	92	938	68
No. 2 parking brake cable x Trailing arm	6.0	61	53 in.*lbf
Skid control sensor wire (for nut)	5.0	51 [Corrected]	44
Skid control sensor wire (for bolt)	8.5	87	75 in.*lbf
Rear speed sensor x Rear axle carrier	8.5	87	75 in.*lbf

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CRANKSHAFT POSITION SENSOR

COMPONENTS

ES



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

P

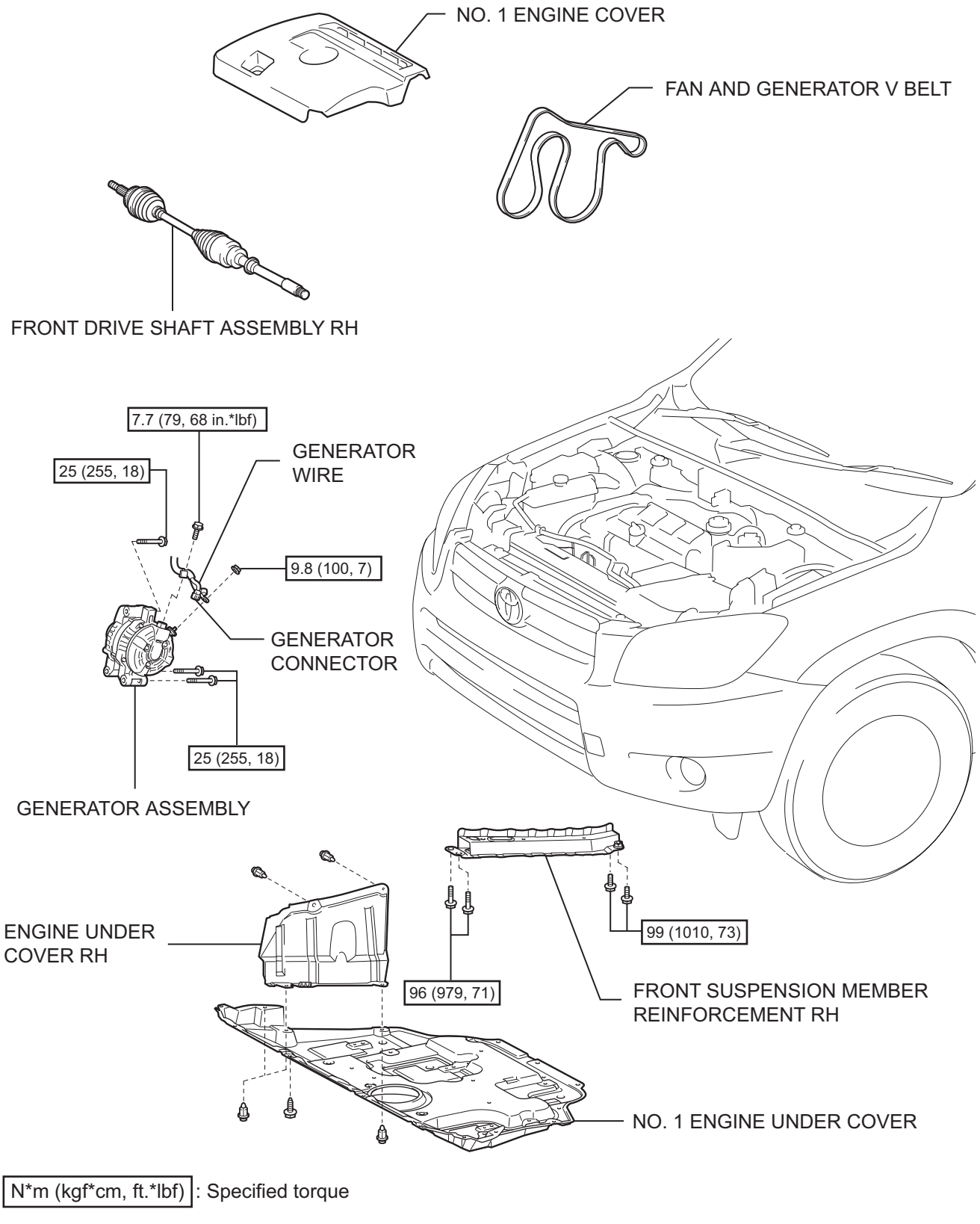
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[Corrected]

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CRANKSHAFT POSITION SENSOR

COMPONENTS

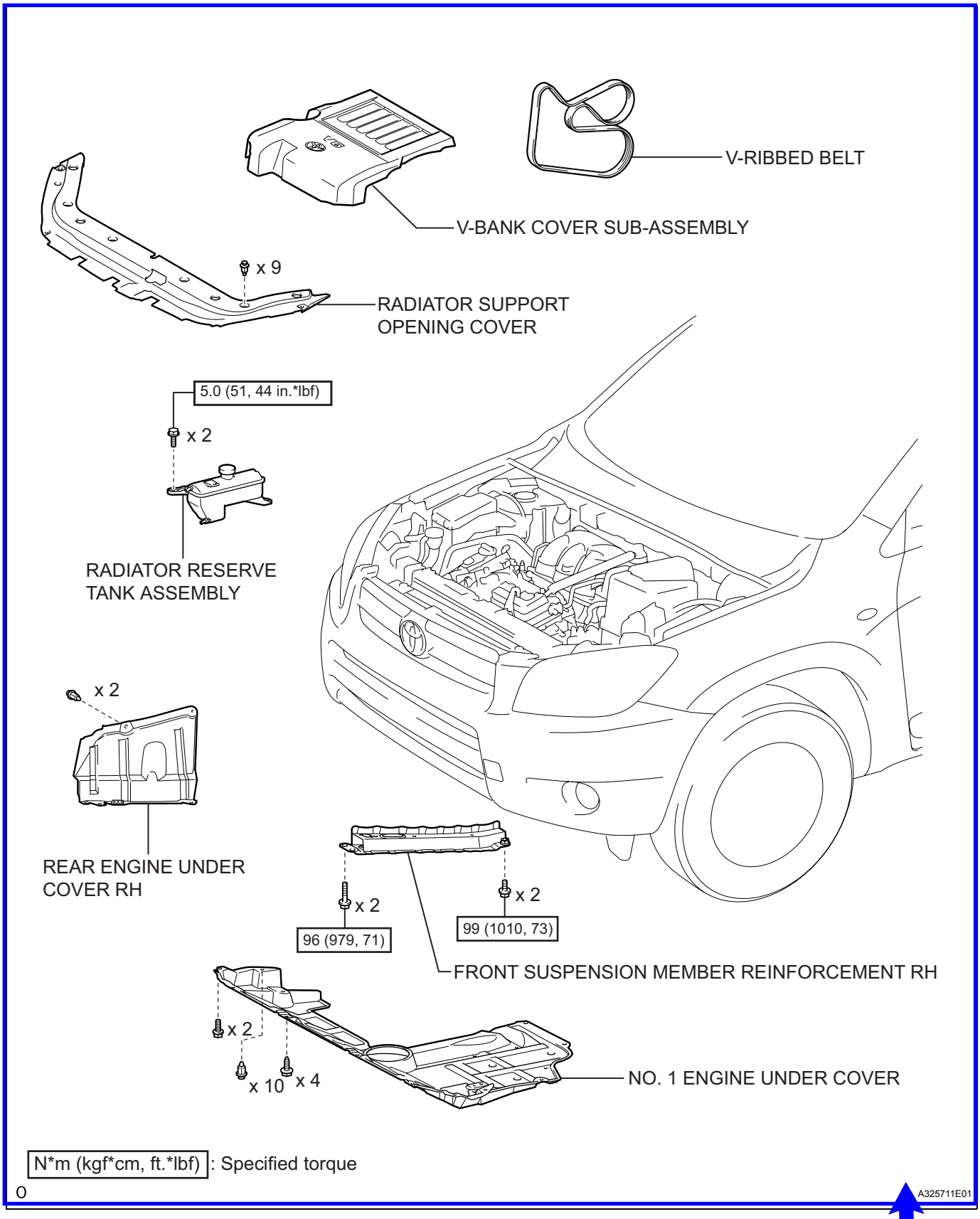


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CRANKSHAFT POSITION SENSOR

COMPONENTS

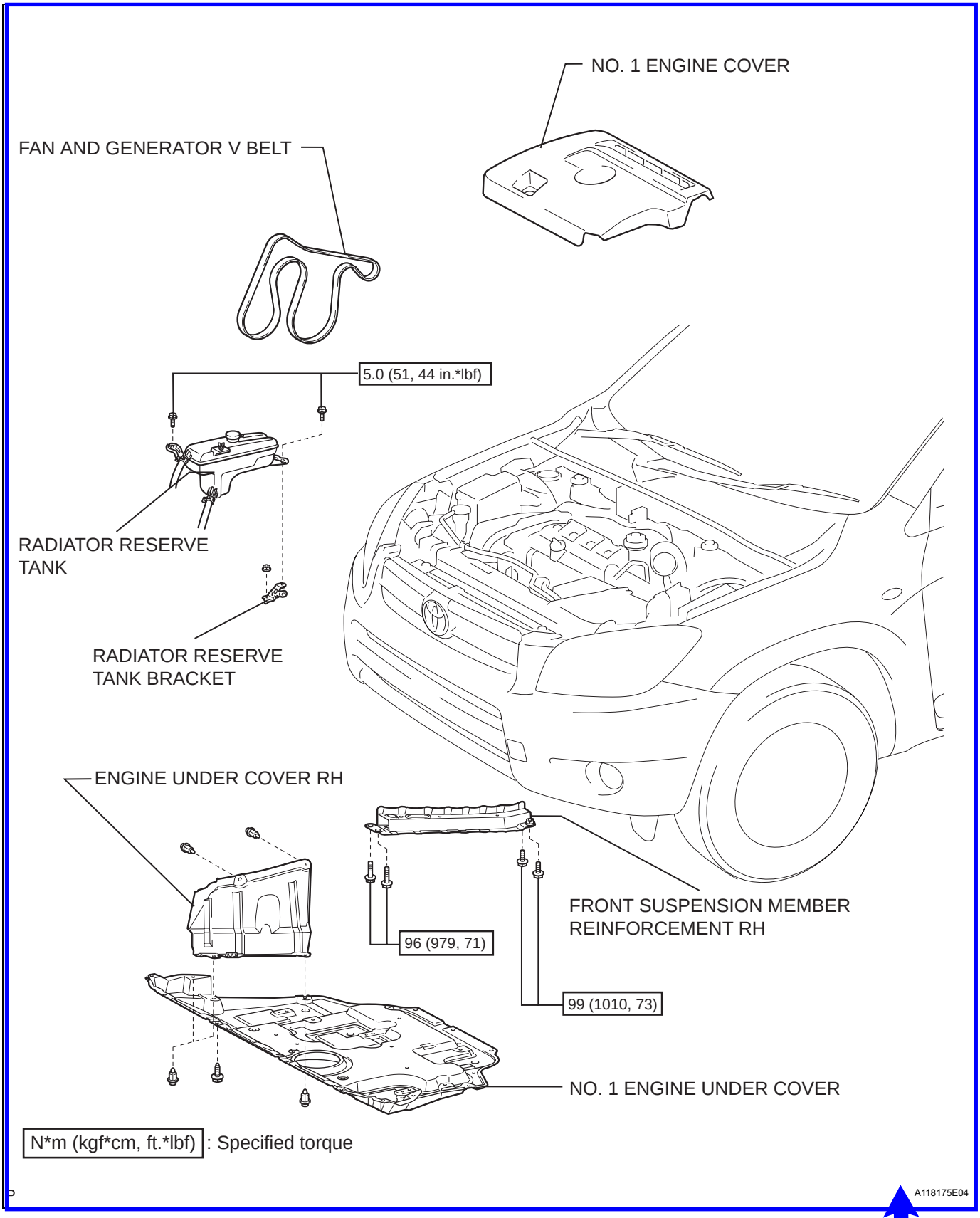


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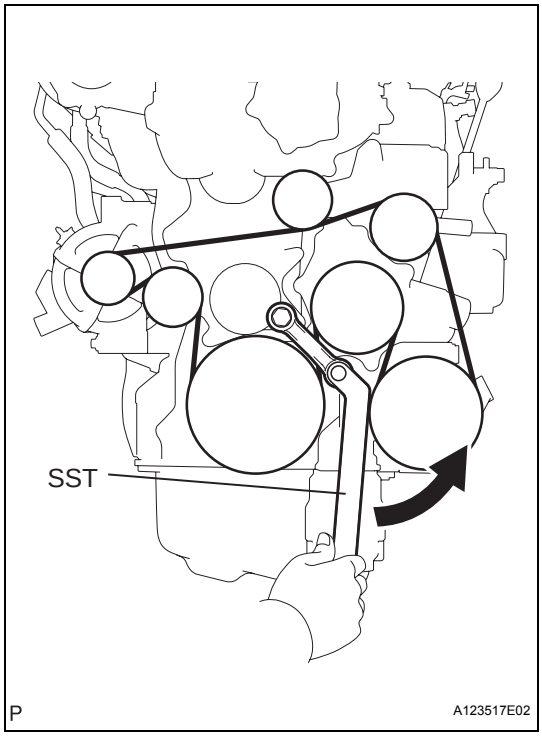
DRIVE BELT

COMPONENTS



[Corrected]

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INSTALLATION

1. INSTALL FAN & GENERATOR V BELT

(a) Using SST and 22 mm wrench, rotate the tensioner pulley counterclockwise, and then install the V-ribbed belt.

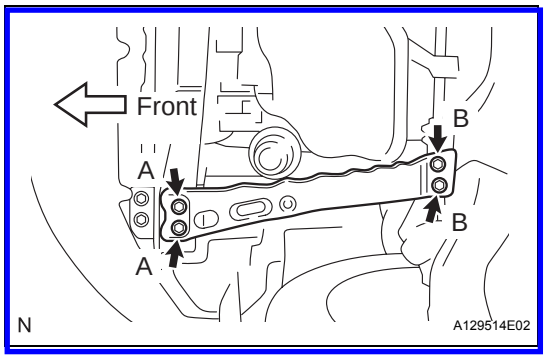
SST 09216-42010

NOTICE:

- **Make sure that the V-ribbed belt is set properly at each pulley.**
- **Make sure SST is installed as shown in the illustration. If not, SST and/or the V-ribbed belt may not be able to be removed.**

[Corrected]

[Corrected]



2. INSTALL FRONT SUSPENSION MEMBER REINFORCEMENT RH

(a) Install the reinforcement with the 4 bolts.

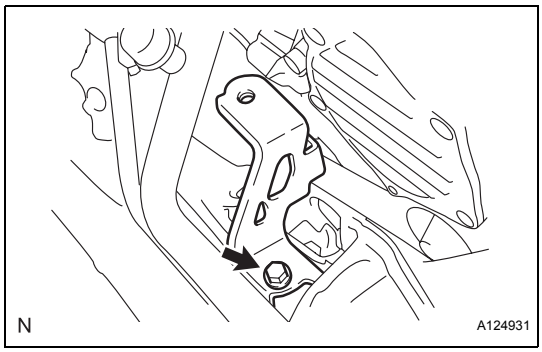
Torque: 96 N*m (979 kgf*cm, 71 ft.*lbf) for bolt A
99 N*m (1010 kgf*cm, 73 ft.*lbf) for bolt B

3. INSTALL ENGINE UNDER COVER RH

(a) Install the engine under cover with the 2 clips.

4. INSTALL NO. 1 ENGINE UNDER COVER

(a) Install the engine under cover with the 12 clips and 4 bolts.



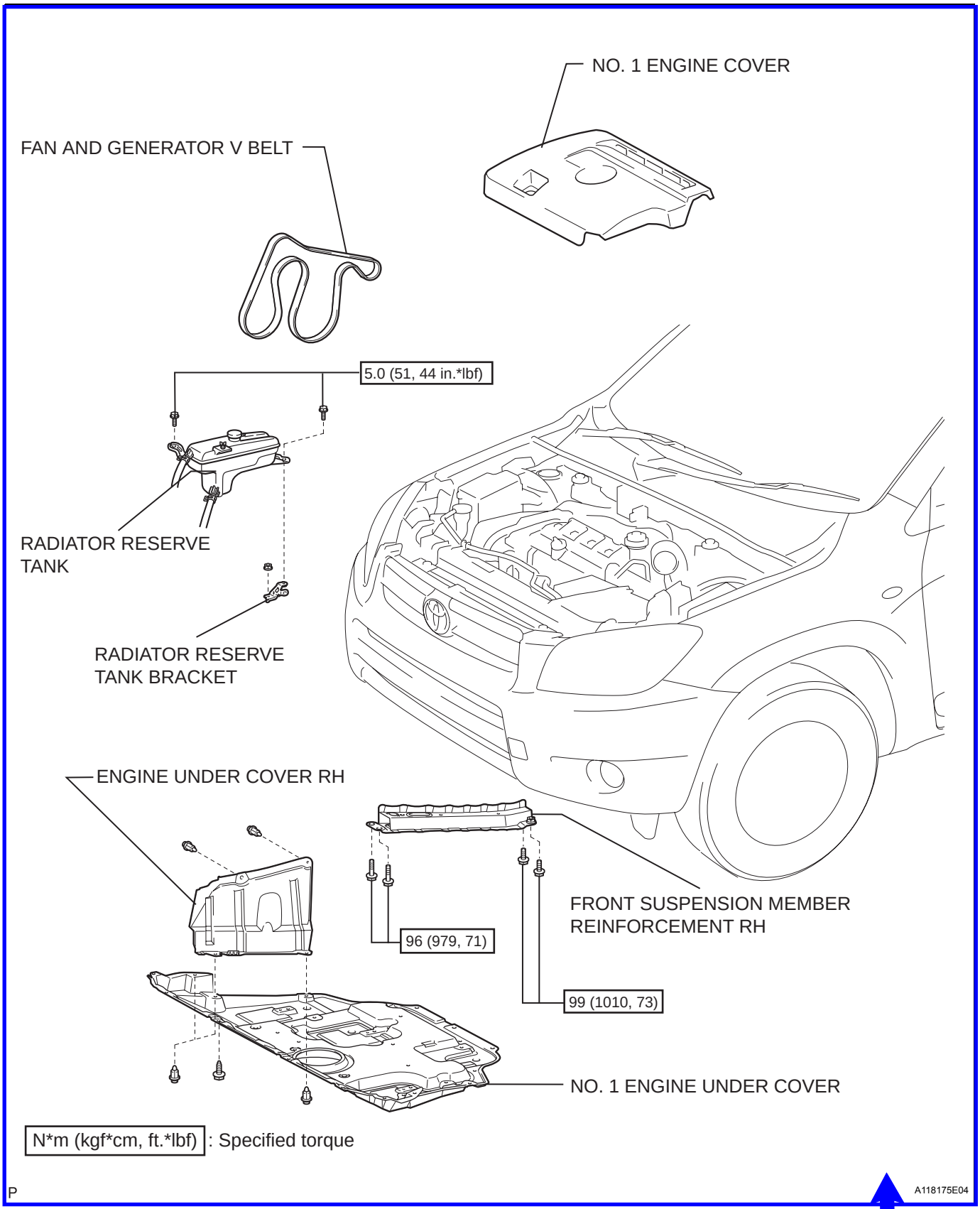
5. CONNECT RADIATOR RESERVE TANK

(a) Install the reserve tank bracket with the bolt.

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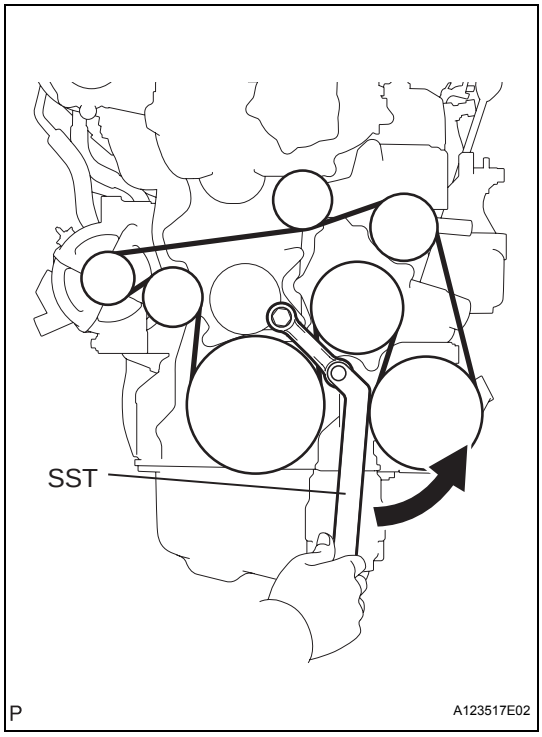
DRIVE BELT

COMPONENTS



[Corrected]

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INSTALLATION

1. INSTALL FAN & GENERATOR V BELT

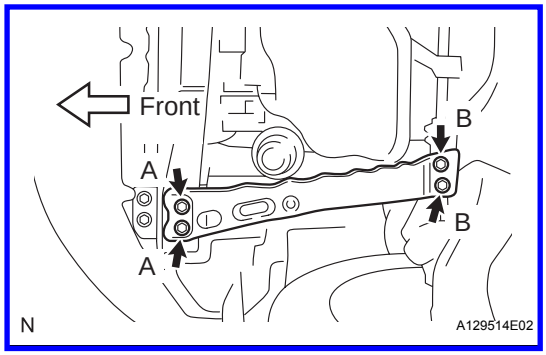
(a) Using SST and 22 mm wrench, rotate the tensioner pulley counterclockwise, and then install the V-ribbed belt.

SST 09216-42010

NOTICE:

- **Make sure that the V-ribbed belt is set properly at each pulley.**
- **Make sure SST is installed as shown in the illustration. If not, SST and/or the V-ribbed belt may not be able to be removed.**

[Corrected]



[Corrected]

2. INSTALL FRONT SUSPENSION MEMBER REINFORCEMENT RH

(a) Install the reinforcement with the 4 bolts.

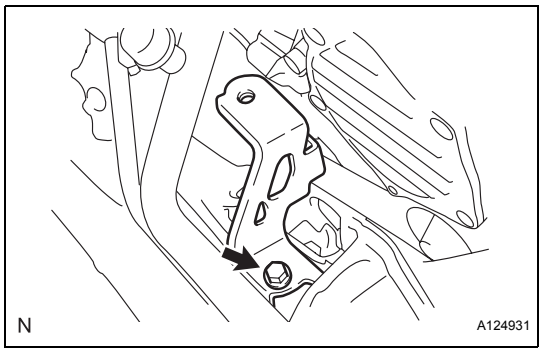
Torque: 96 N*m (979 kgf*cm, 71 ft.*lbf) for bolt A
99 N*m (1010 kgf*cm, 73 ft.*lbf) for bolt B

3. INSTALL ENGINE UNDER COVER RH

(a) Install the engine under cover with the 2 clips.

4. INSTALL NO. 1 ENGINE UNDER COVER

(a) Install the engine under cover with the 12 clips and 4 bolts.



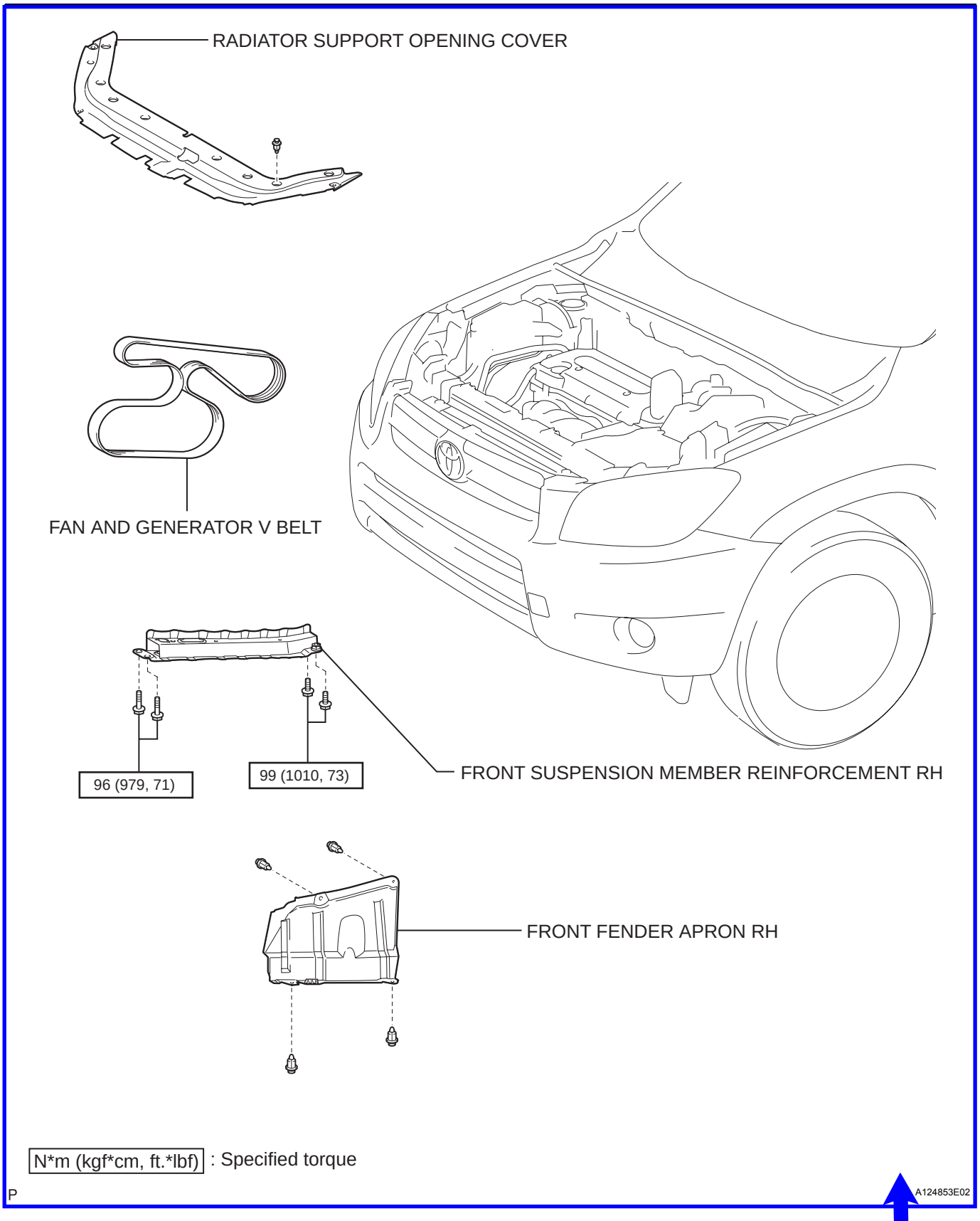
5. CONNECT RADIATOR RESERVE TANK

(a) Install the reserve tank bracket with the bolt.

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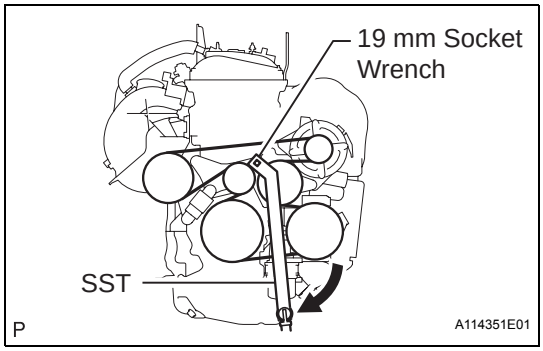
DRIVE BELT

COMPONENTS



[Corrected]

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INSTALLATION

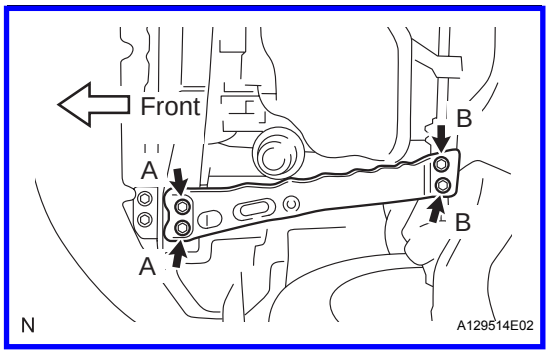
1. INSTALL FAN AND GENERATOR V BELT

(a) Using SST 19 mm socket wrench, loosen the V-ribbed belt tensioner arm clockwise, then install the fan and generator V belt.

SST 09216-42010

NOTICE:

- **Be sure to connect SST and the tools so that they are in line during use.**
- **When retracting the tensioner, turn it clockwise slowly for 3 seconds or more. Do not apply force rapidly.**
- **After the tensioner is fully retracted, do not apply force any more than necessary.**



[Added]

2. INSTALL FRONT SUSPENSION MEMBER REINFORCEMENT RH

(a) Install the reinforcement RH with the 4 bolts.

Torque: 96 N*m (979 kgf*cm, 71 ft.*lbf) for bolt A
99 N*m (1010 kgf*cm, 73 ft.*lbf) for bolt B

[Corrected]

3. INSTALL FRONT FENDER APRON RH

4. INSTALL FRONT WHEEL RH

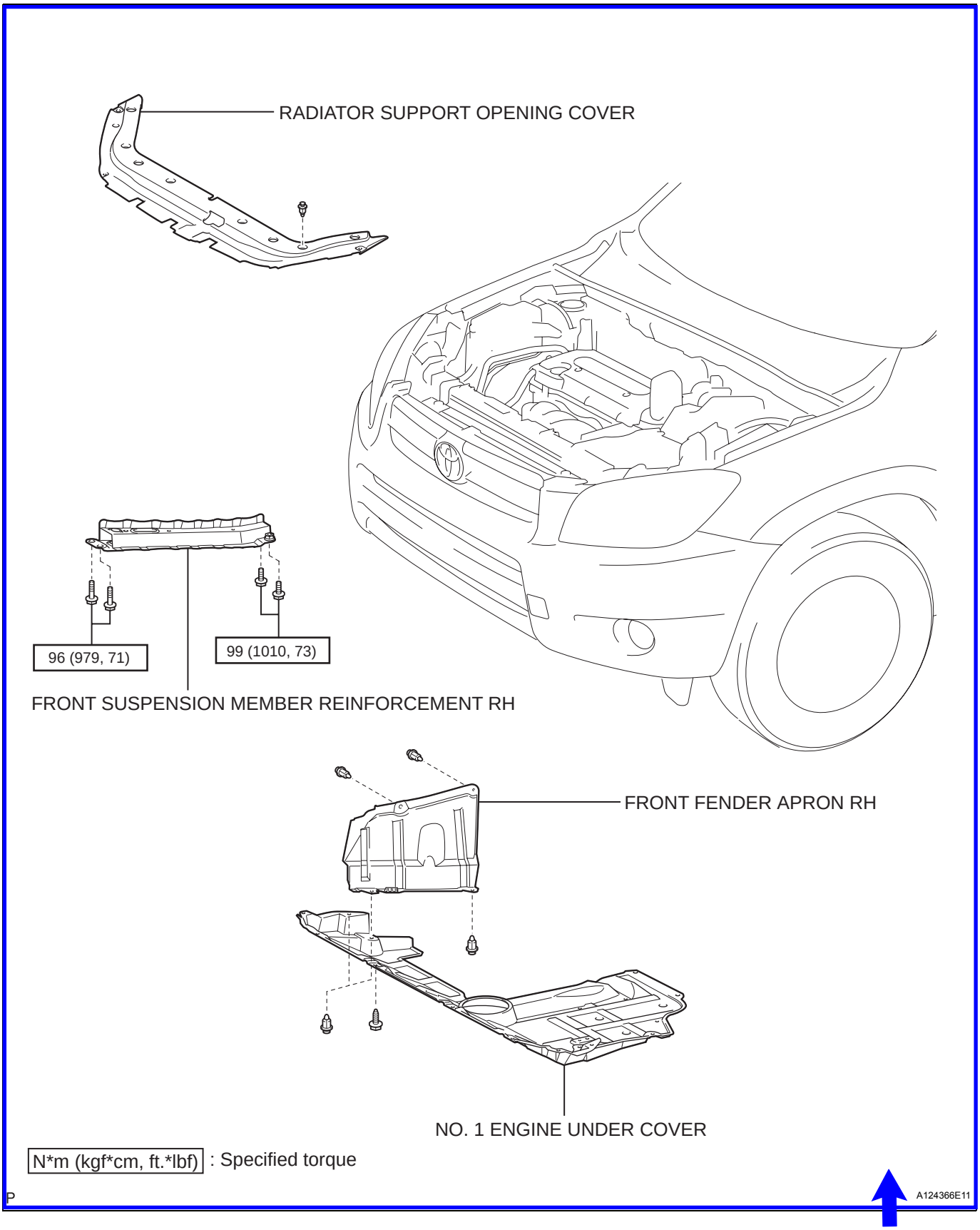
5. INSTALL RADIATOR SUPPORT OPENING COVER

EM

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TIMING CHAIN

COMPONENTS

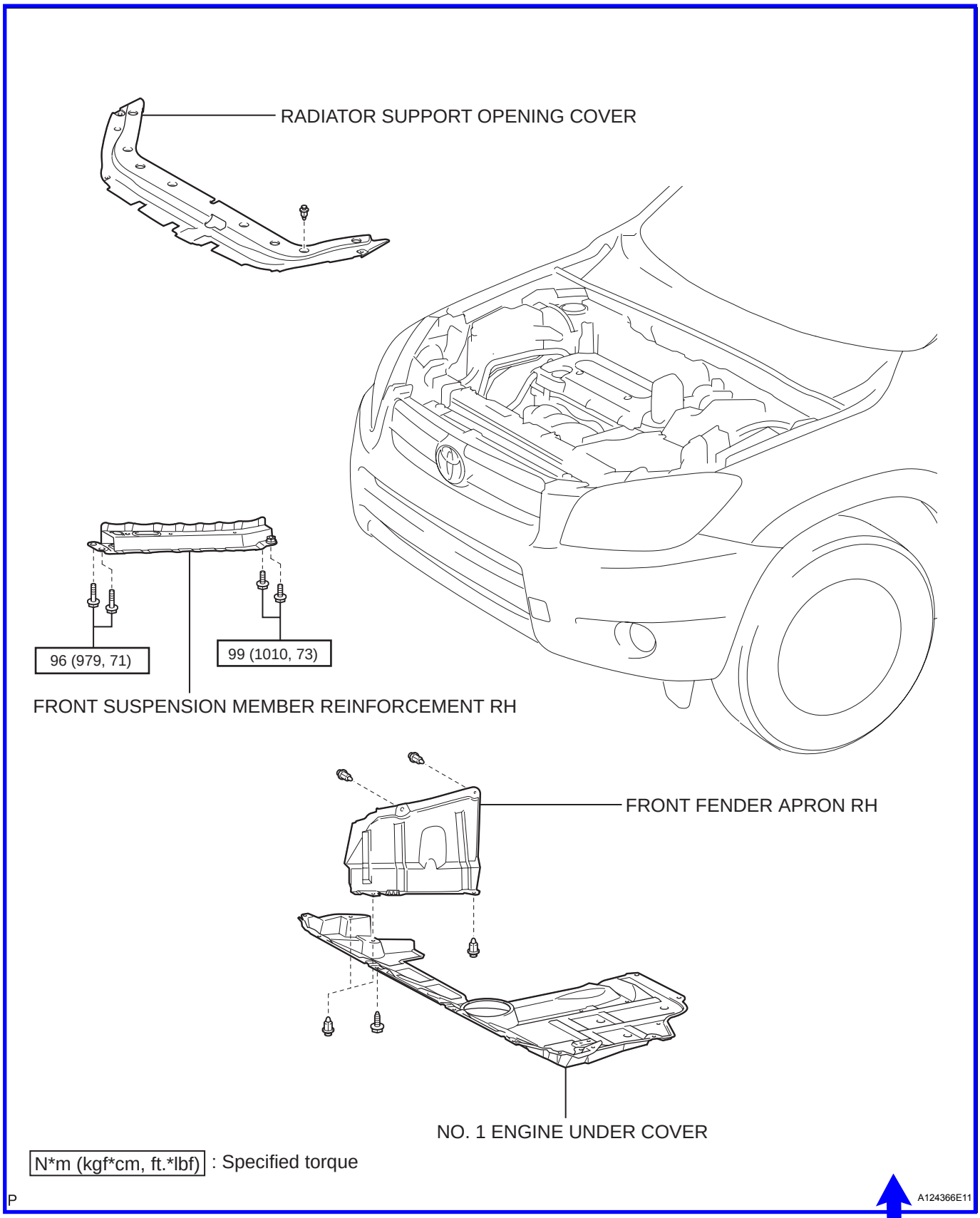


[Corrected]

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CYLINDER HEAD

COMPONENTS

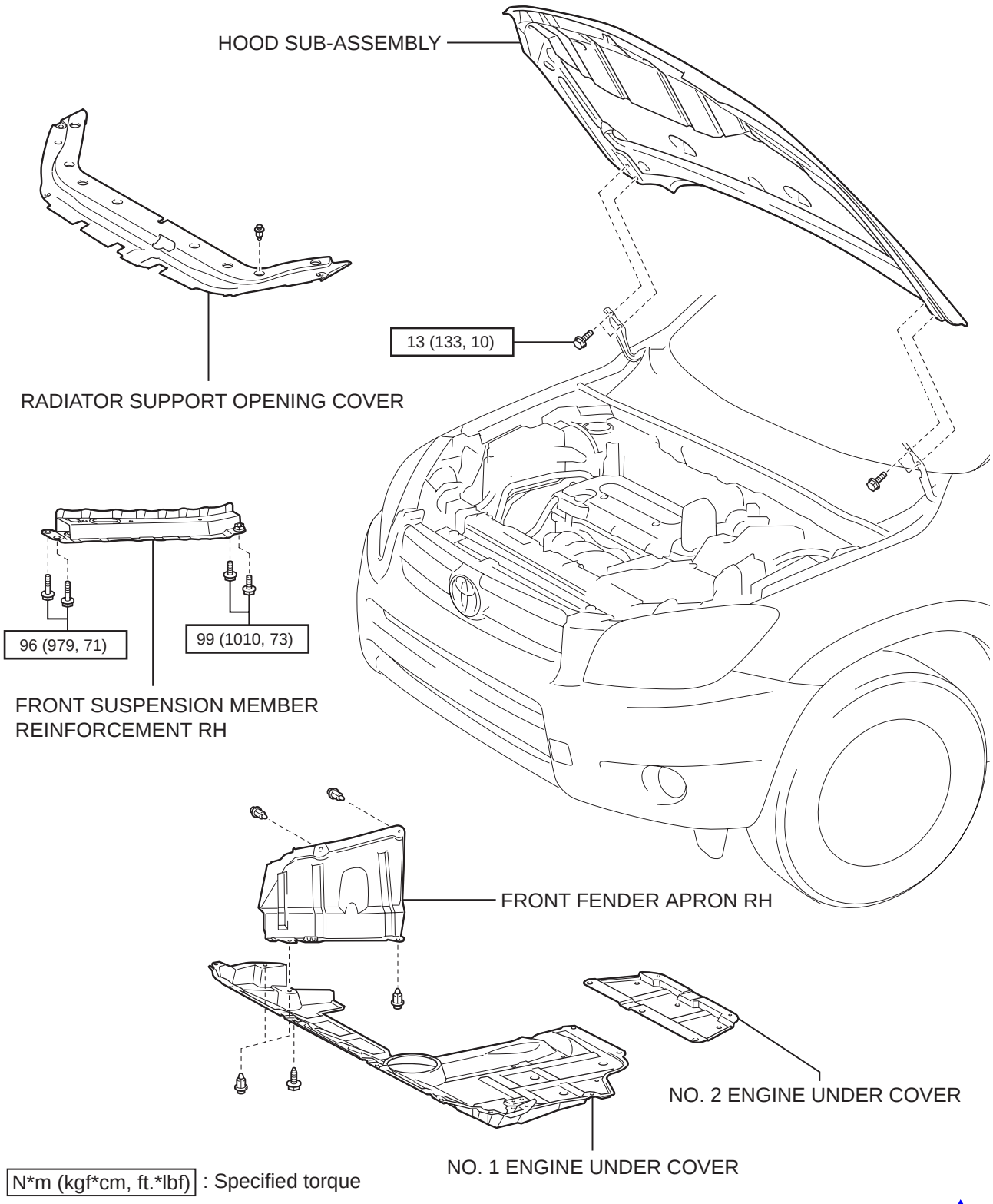


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ENGINE ASSEMBLY

COMPONENTS



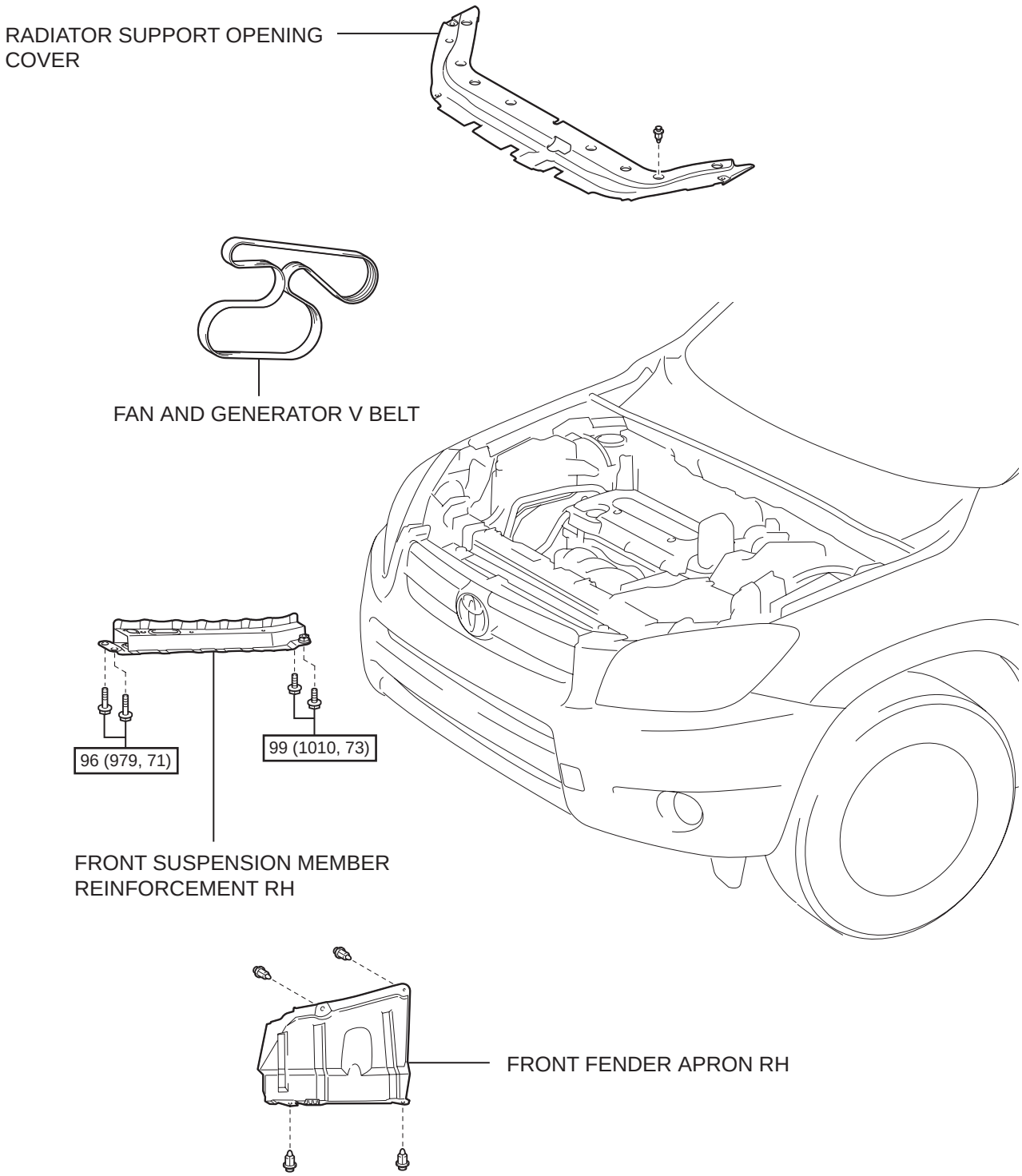
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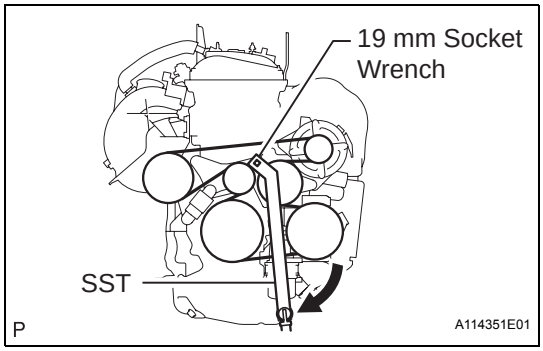
DRIVE BELT

COMPONENTS



[Corrected]

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INSTALLATION

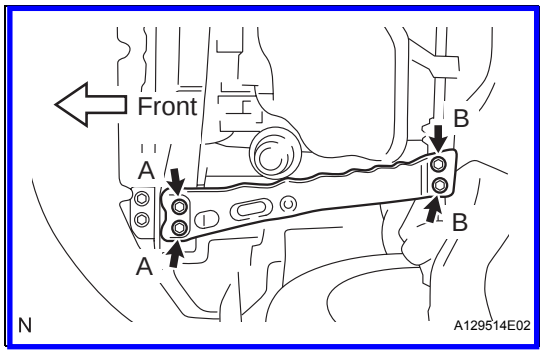
1. INSTALL FAN AND GENERATOR V BELT

(a) Using SST and 19 mm socket wrench, loosen the V-ribbed belt tensioner arm clockwise, then install the fan and generator V belt.

SST 09216-42010

NOTICE:

- **Be sure to connect SST and the tools so that they are in line during use.**
- **When retracting the tensioner, turn it clockwise slowly for 3 seconds or more. Do not apply force rapidly.**
- **After the tensioner is fully retracted, do not apply force any more than necessary.**



[Added]

2. INSTALL FRONT SUSPENSION MEMBER REINFORCEMENT RH

(a) Install the reinforcement RH with the 4 bolts.

Torque: 96 N*m (979 kgf*cm, 71 ft.*lbf) for bolt A
99 N*m (1010 kgf*cm, 73 ft.*lbf) for bolt B

[Corrected]

3. INSTALL FRONT FENDER APRON RH

4. INSTALL FRONT WHEEL RH

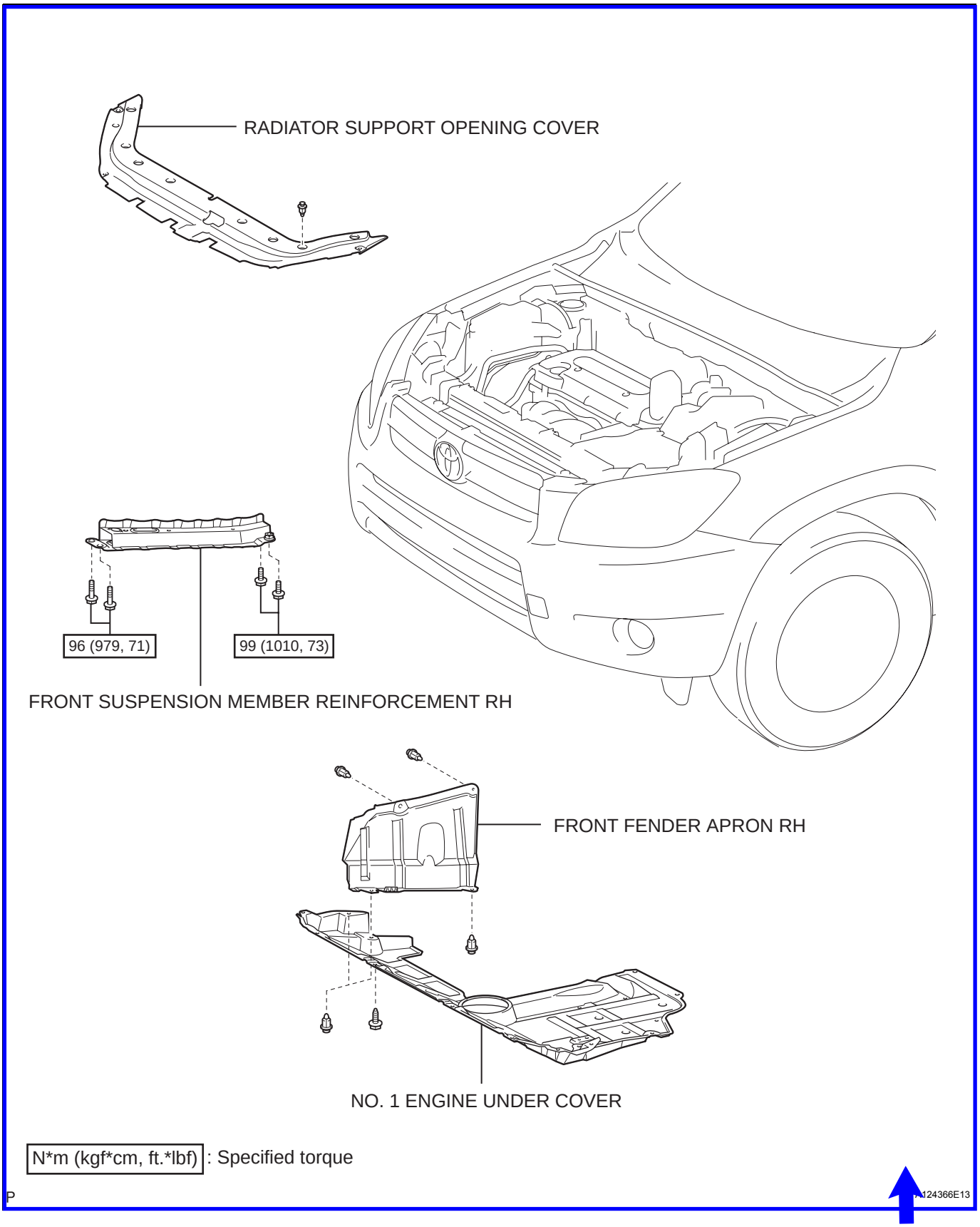
5. INSTALL RADIATOR SUPPORT OPENING COVER

EM

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TIMING CHAIN

COMPONENTS



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

P

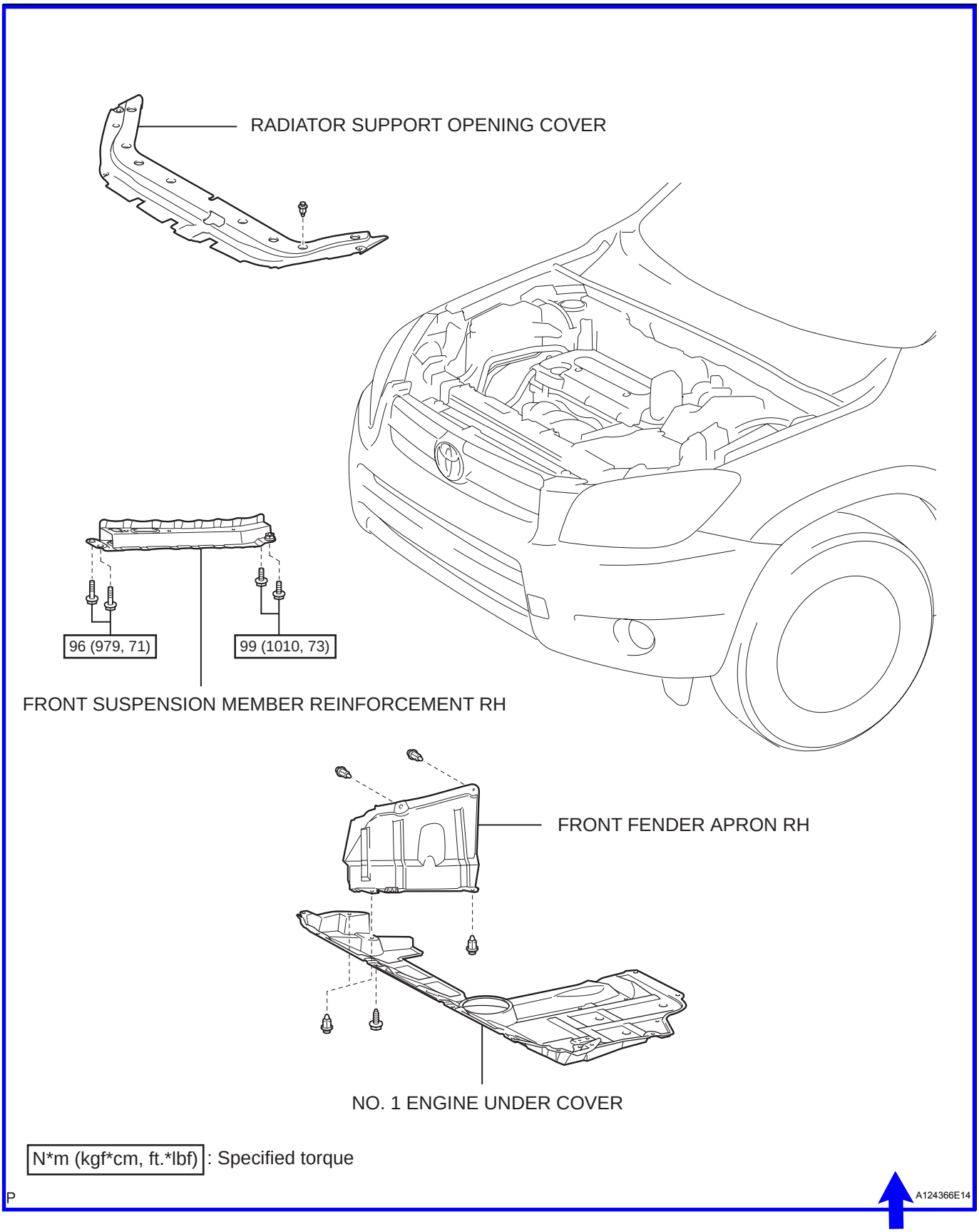
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CYLINDER HEAD

COMPONENTS

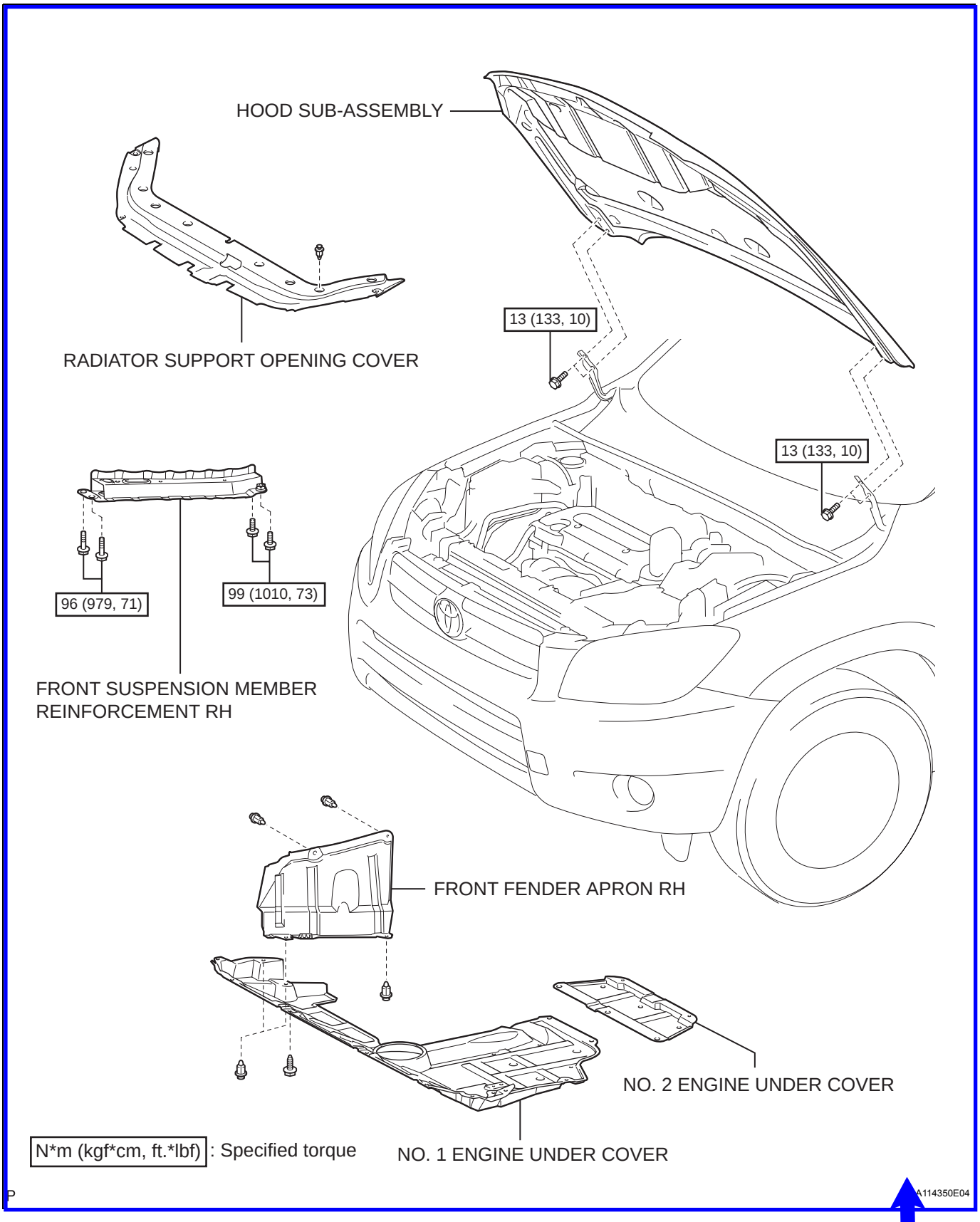


[Corrected]

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ENGINE ASSEMBLY

COMPONENTS

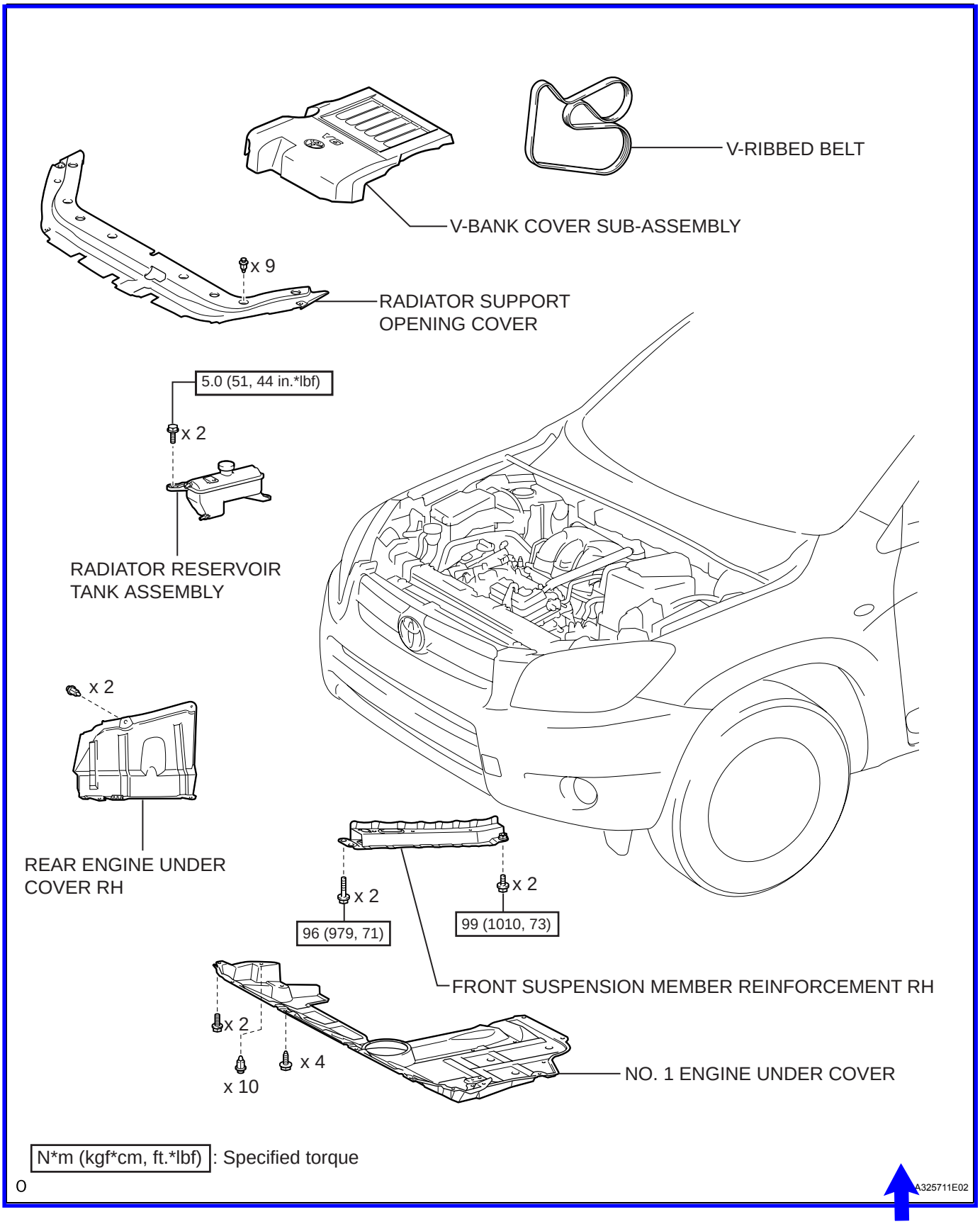


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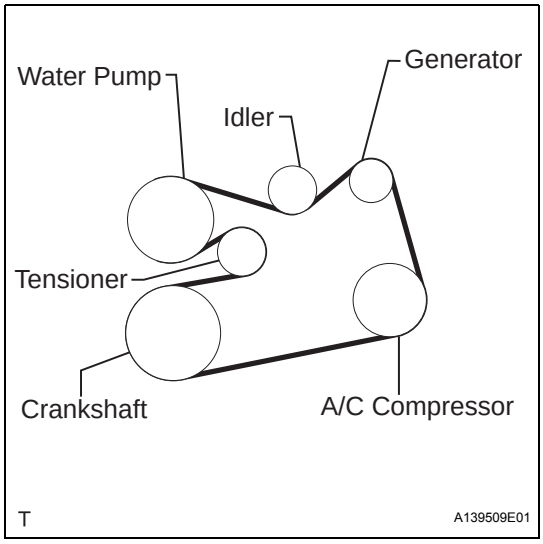
DRIVE BELT

COMPONENTS



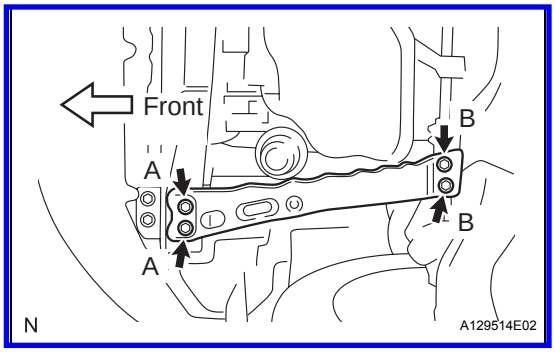
[Corrected]

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(b) If it is difficult to install the V-ribbed belt, perform the following procedure.
(1) Put the V-ribbed belt on everything except the tensioner pulley as shown in the illustration.
(2) While releasing the belt tension by turning the belt tensioner counterclockwise, put the V-ribbed belt on the tensioner pulley.
NOTICE:
- **Put the backside of the V-ribbed belt on the tensioner pulley and idler pulley.**
- **Check that the V-ribbed belt is properly set to each pulley.**

[Corrected]



[Corrected]

2. INSTALL FRONT SUSPENSION MEMBER REINFORCEMENT RH

(a) Install the reinforcement with the 4 bolts.

Torque: 96 N*m (979 kgf*cm, 71 ft.*lbf) for bolt A
99 N*m (1010 kgf*cm, 73 ft.*lbf) for bolt B

3. INSTALL REAR ENGINE UNDER COVER RH (See page EM-78)

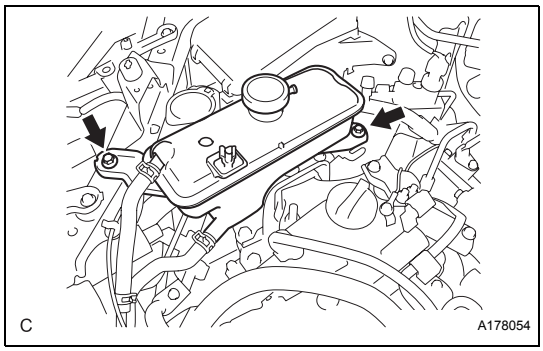
4. INSTALL NO. 1 ENGINE UNDER COVER (See page EM-78)

5. CONNECT RADIATOR RESERVOIR TANK ASSEMBLY

(a) Connect the reservoir tank with the 2 bolts.
Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)

6. INSTALL V-BANK COVER SUB-ASSEMBLY (See page EM-79)

7. INSTALL RADIATOR SUPPORT OPENING COVER (See page EM-79)

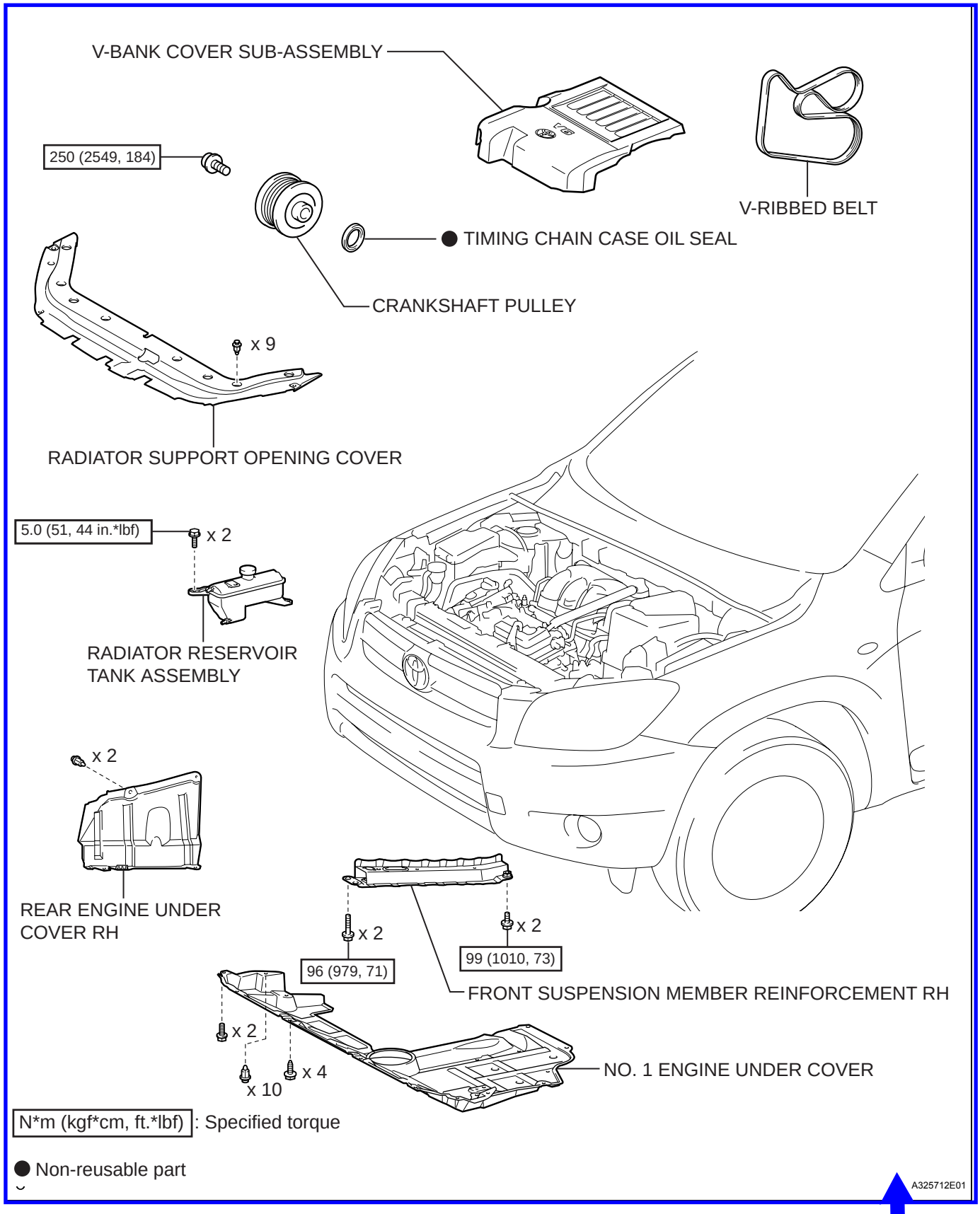


EM

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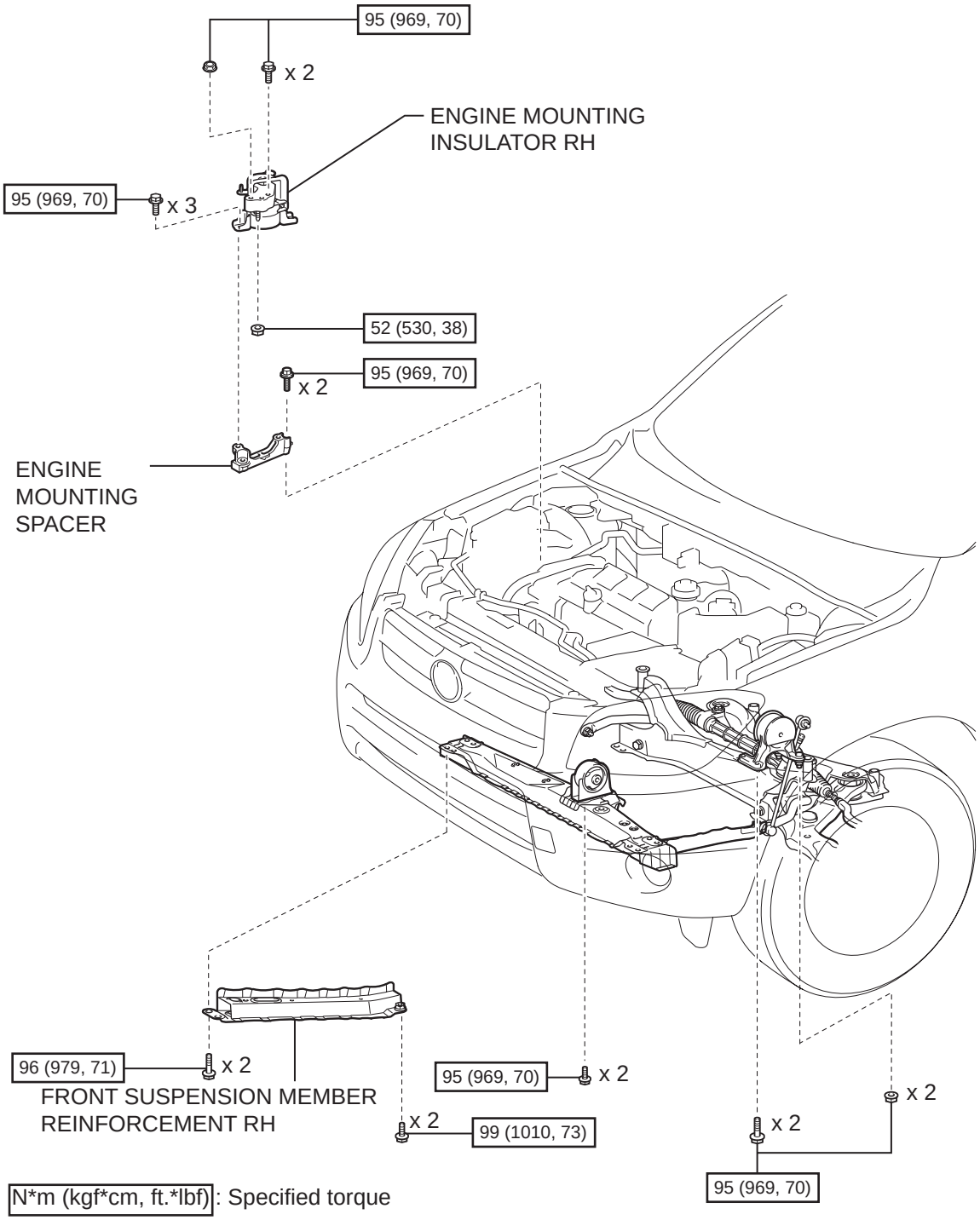
ENGINE FRONT OIL SEAL

COMPONENTS



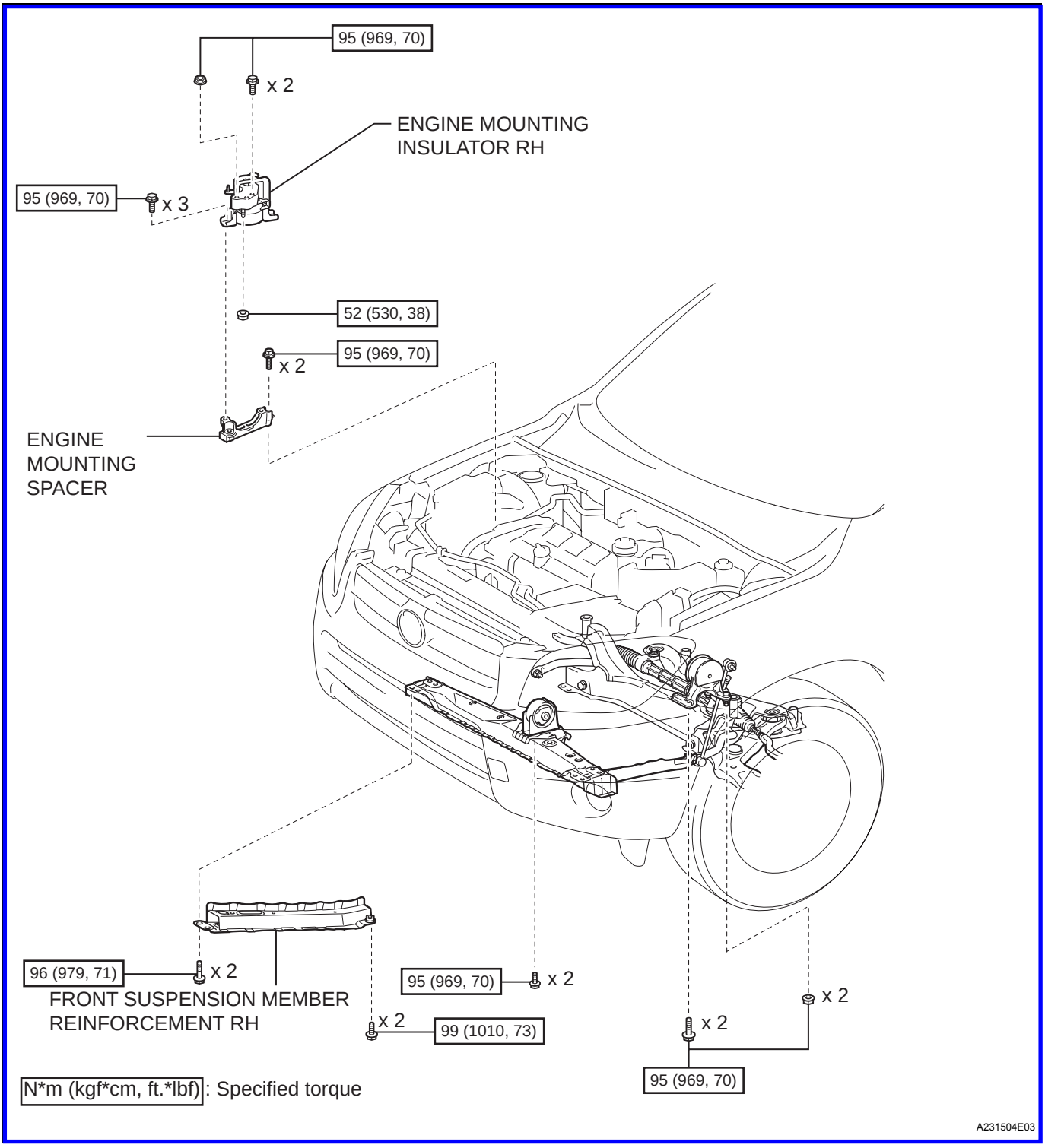
[Corrected]

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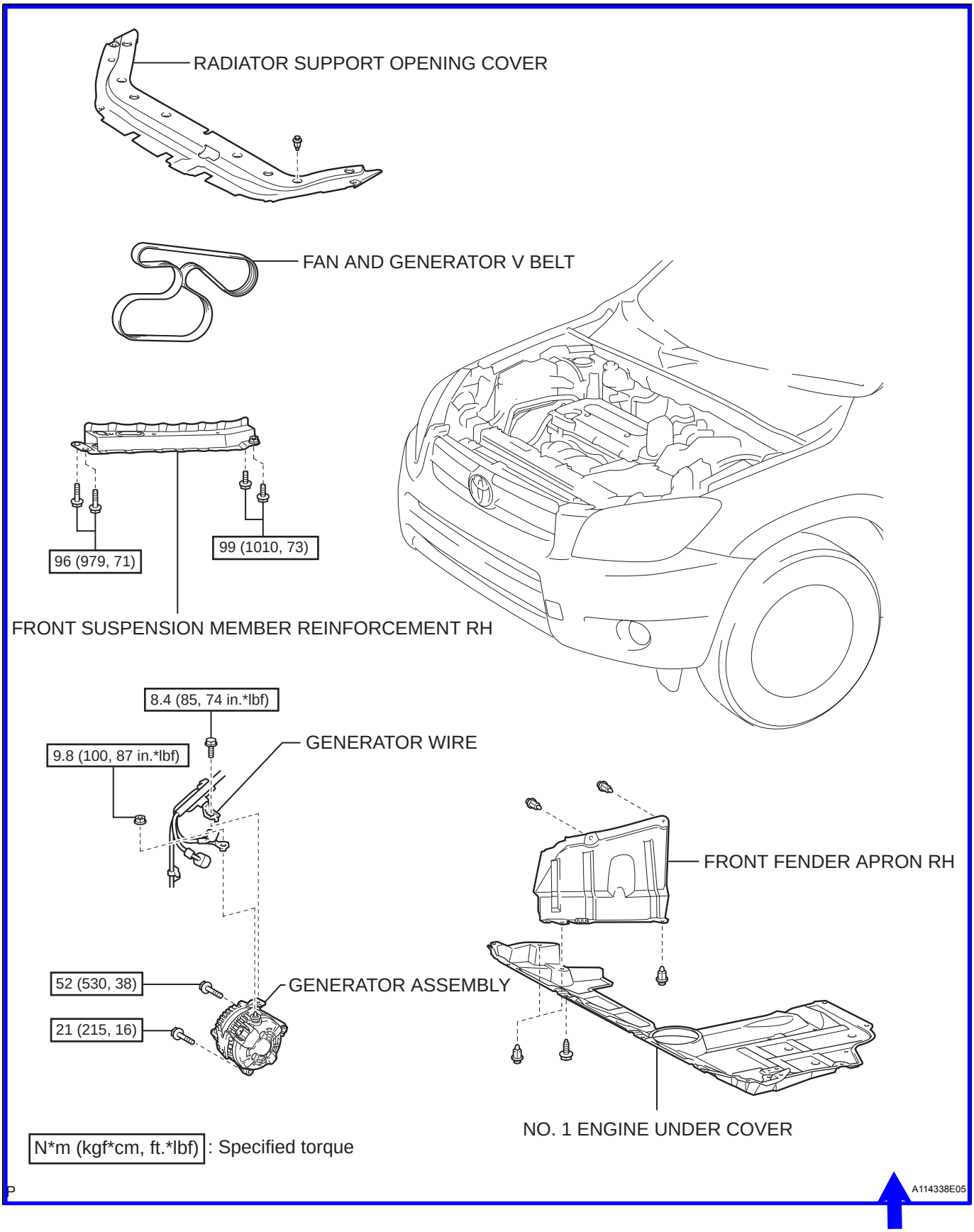


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WATER PUMP

COMPONENTS

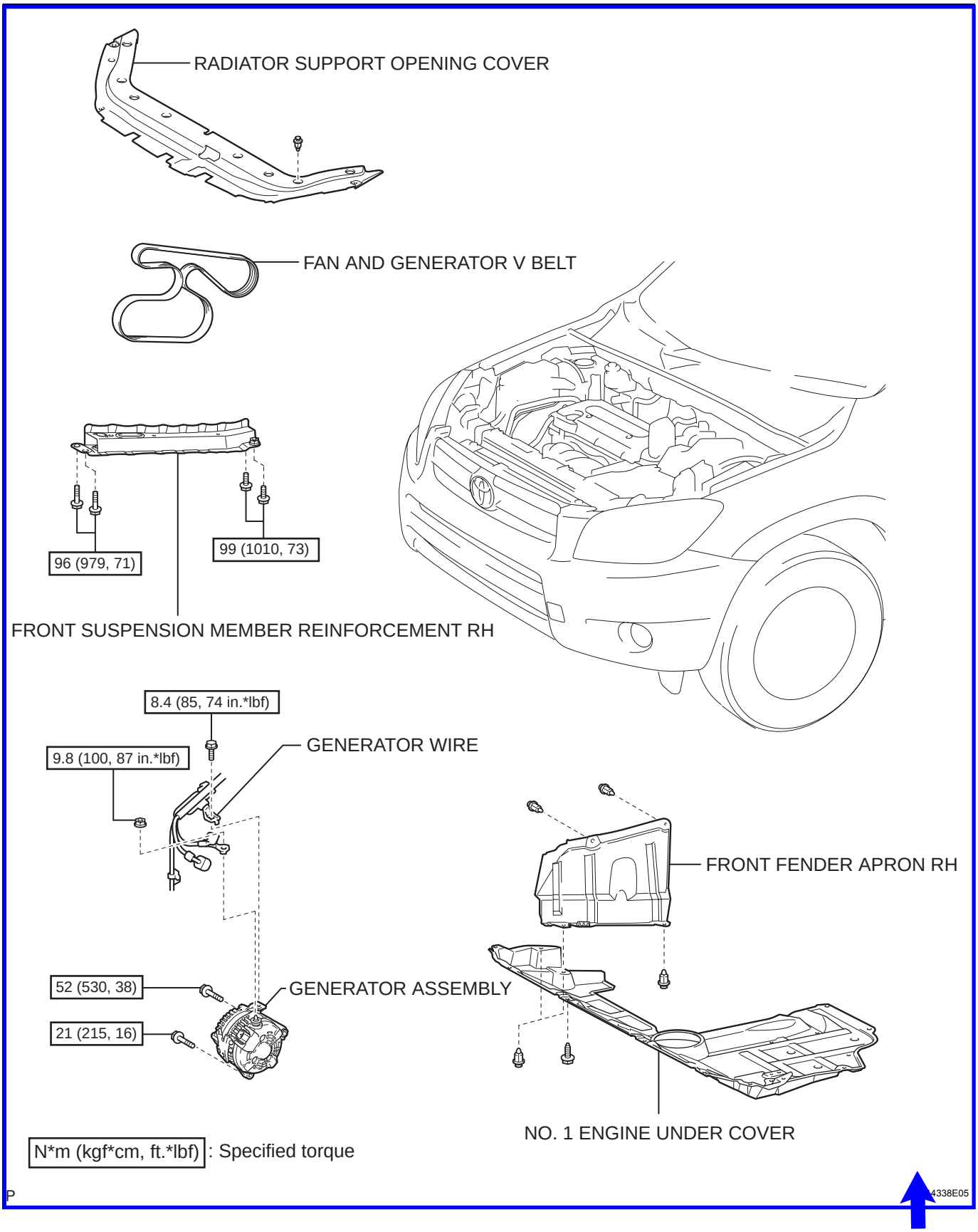


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WATER PUMP

COMPONENTS

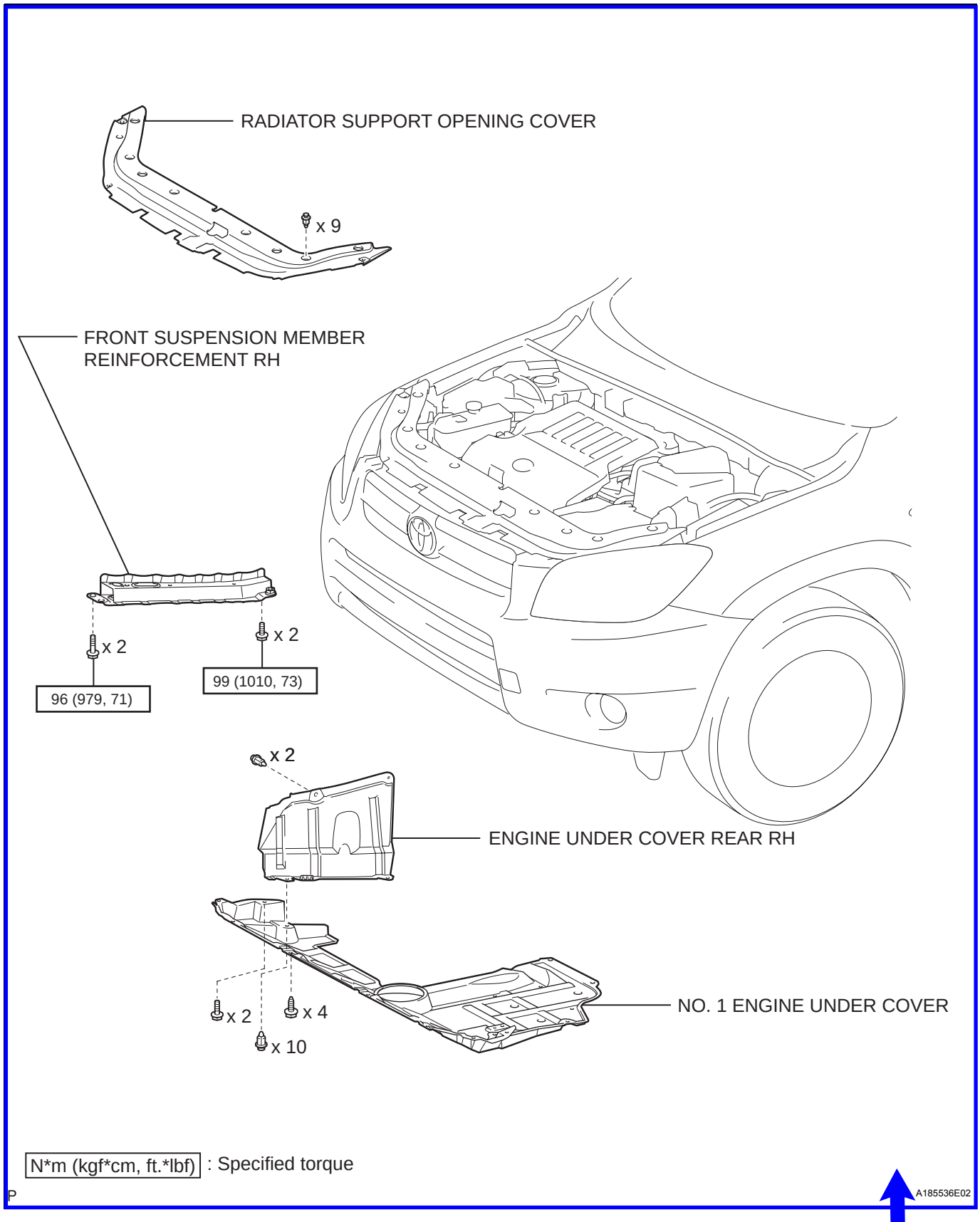


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THERMOSTAT

COMPONENTS

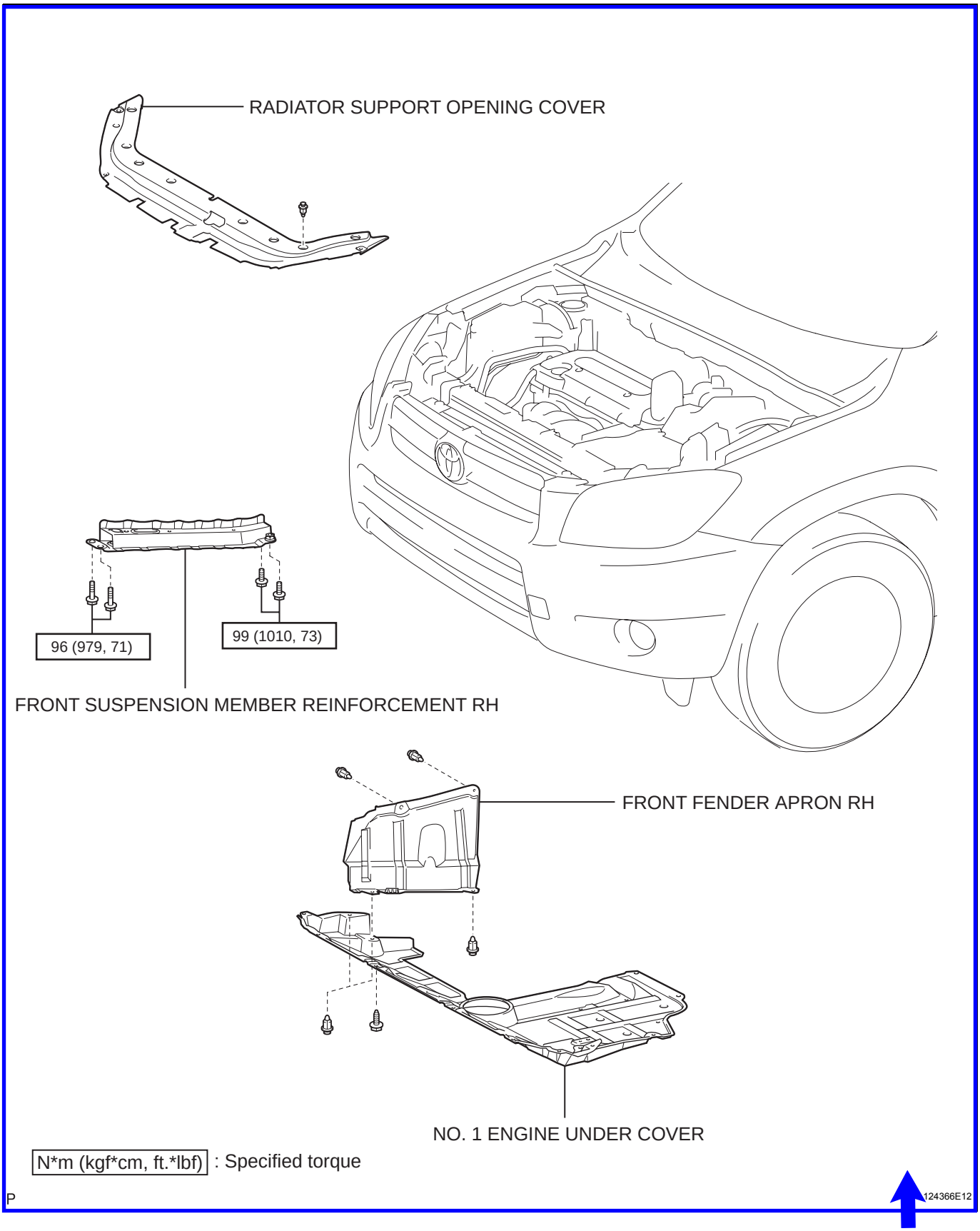


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OIL PUMP

COMPONENTS

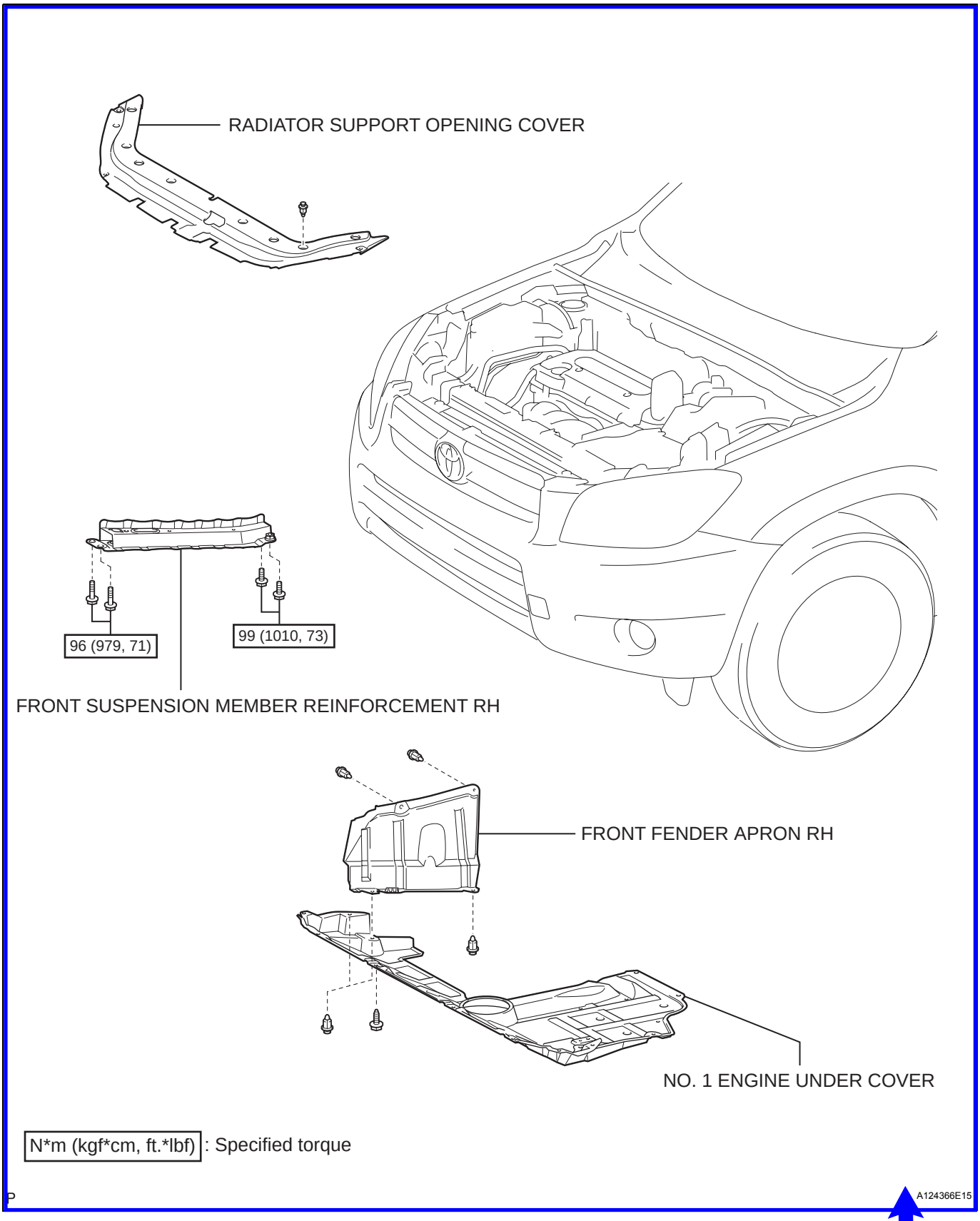


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OIL PUMP

COMPONENTS



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

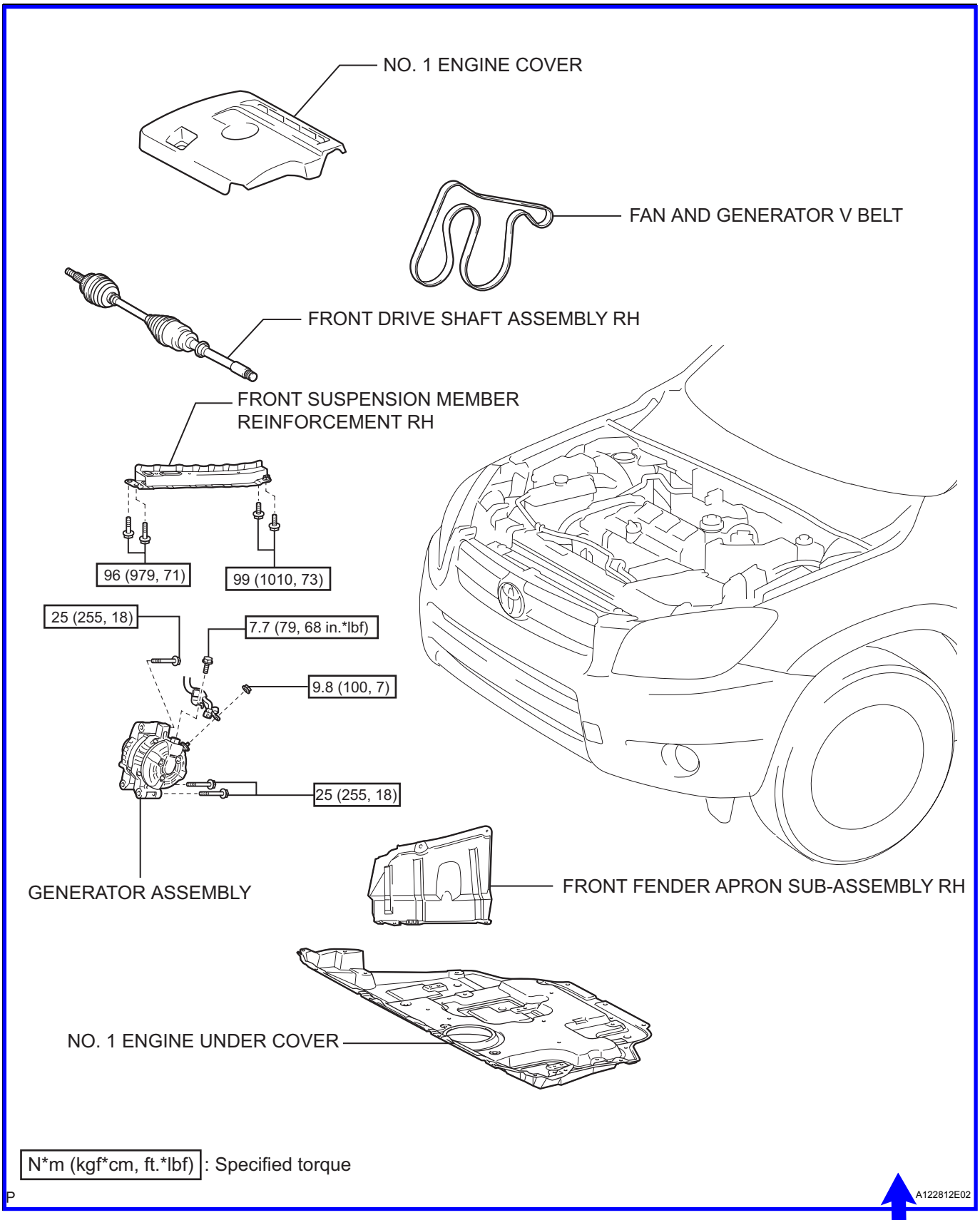
A124366E15

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GENERATOR

COMPONENTS



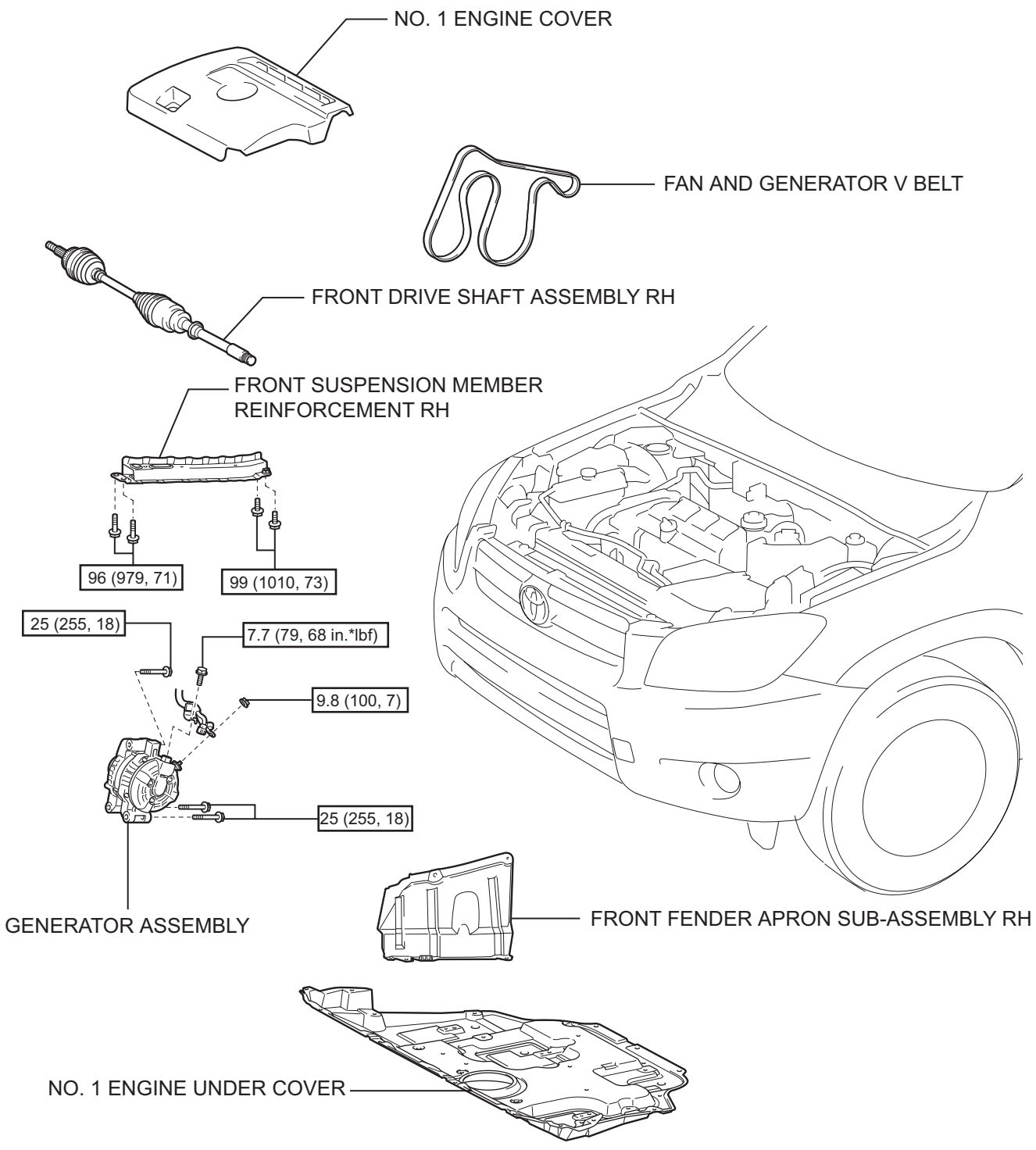
[Corrected]

CH

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GENERATOR

COMPONENTS



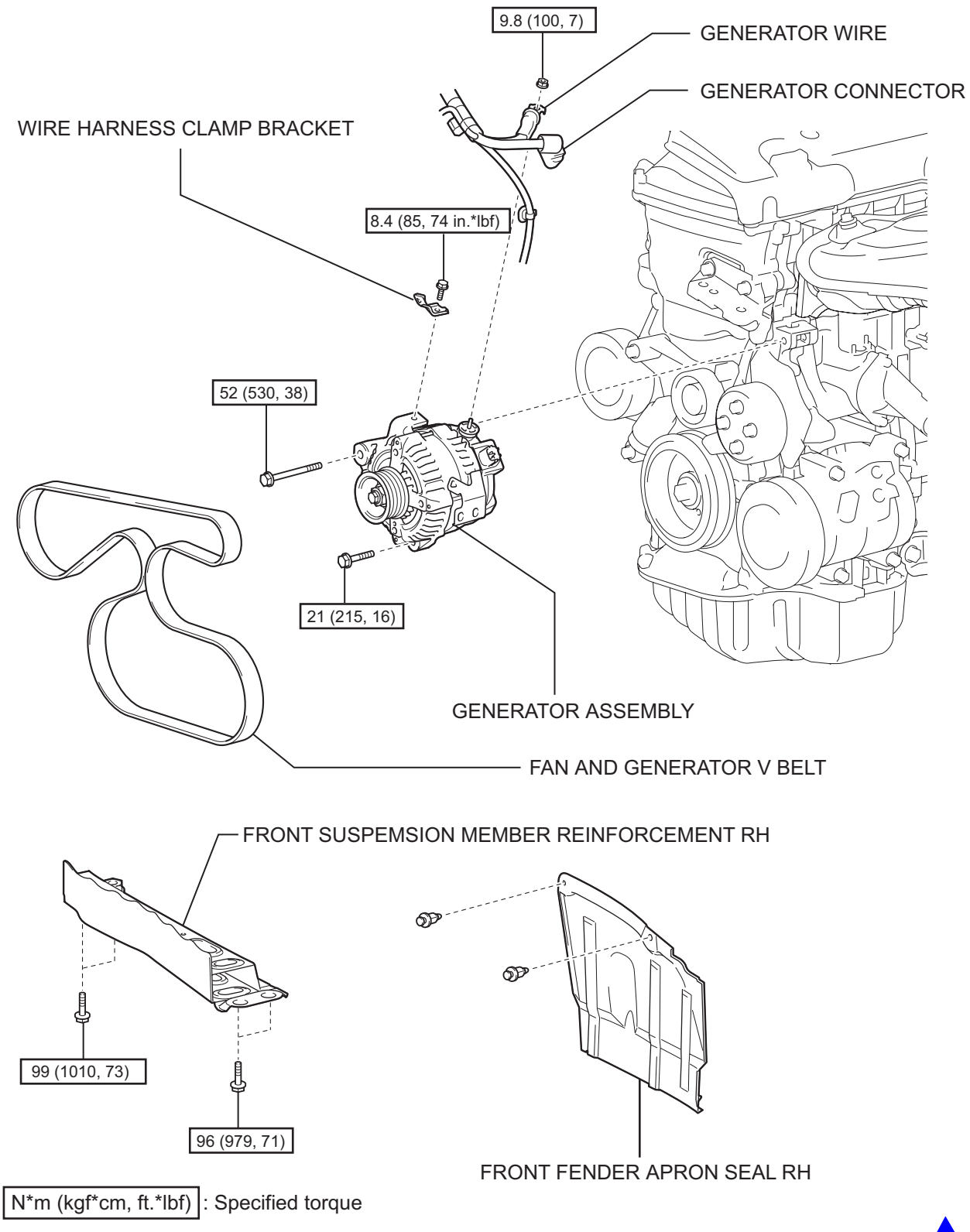
[Corrected]

CH

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GENERATOR

COMPONENTS



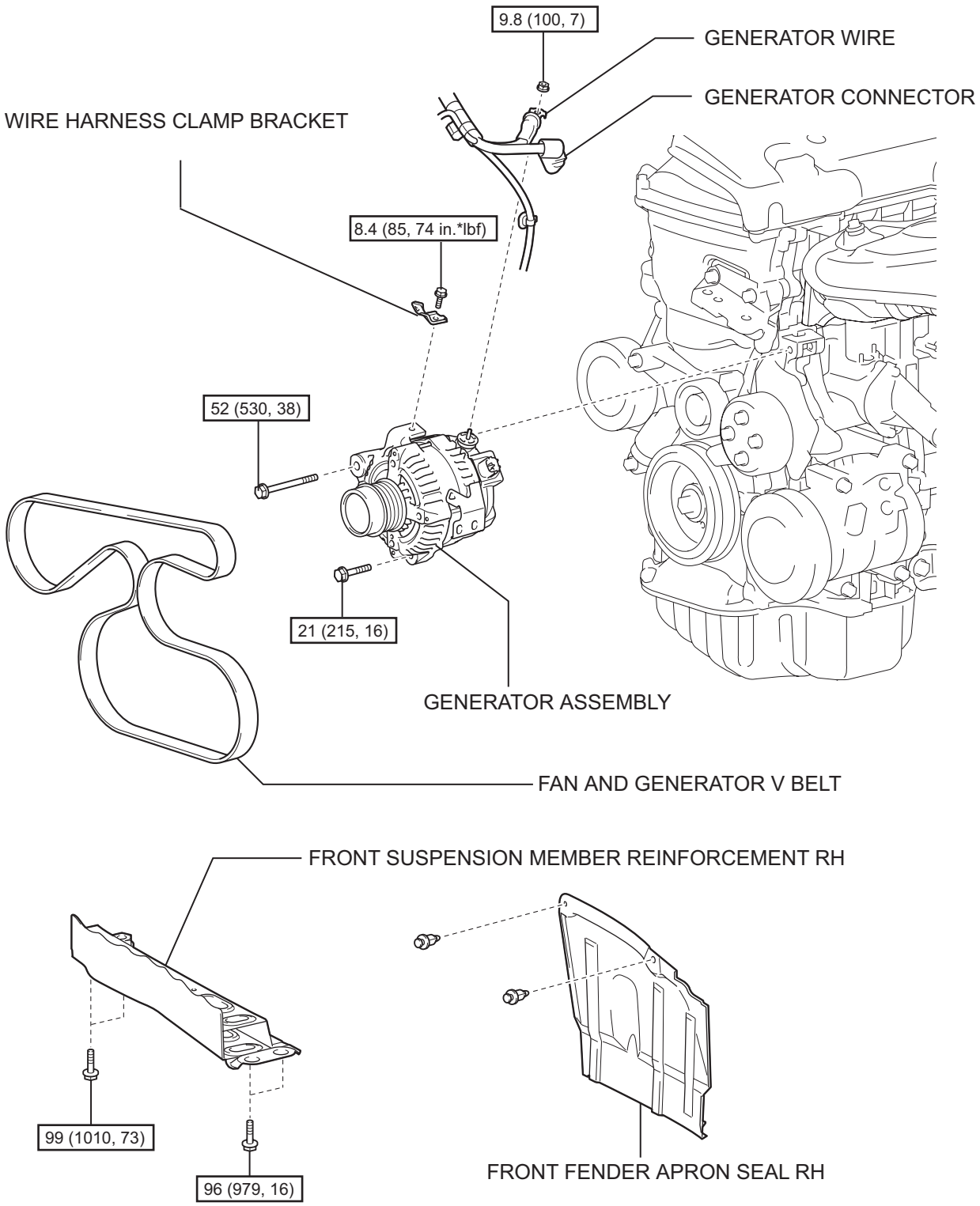
[Corrected]

CH

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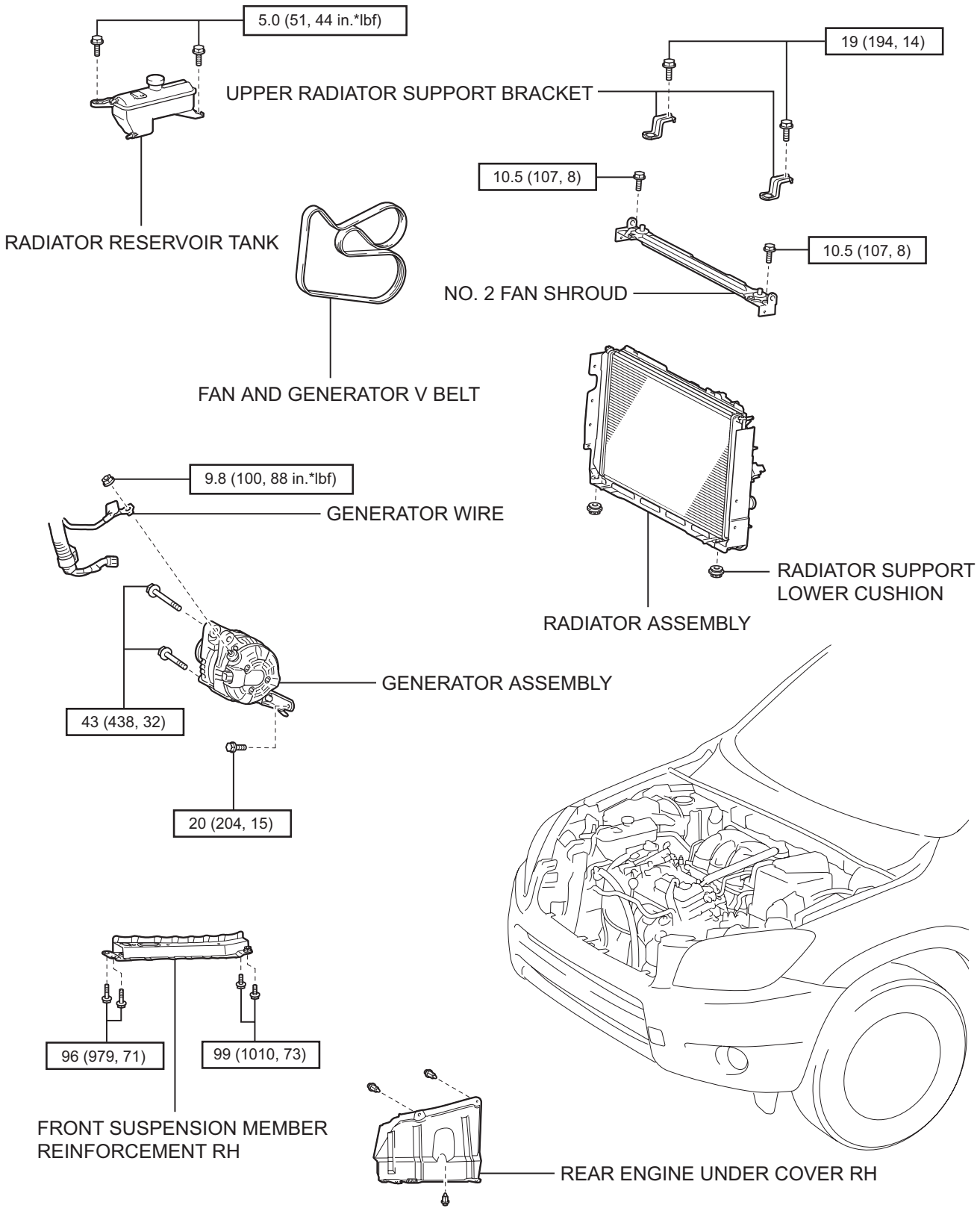
GENERATOR

COMPONENTS



[Corrected]

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

P A132429E04

CH

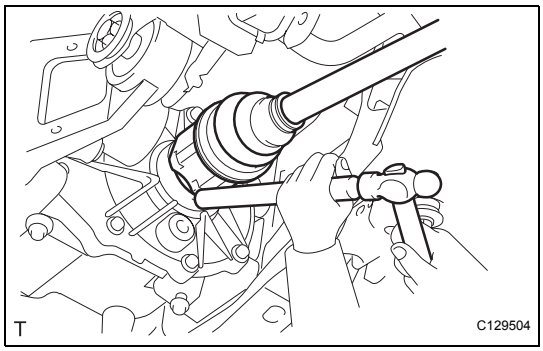
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4. INSTALL DIFFERENTIAL CARRIER SUB-ASSEMBLY

(a) Support the rear differential carrier with a transmission jack or equivalent.

(b) Apply hypoid gear oil to the splines of the left and right rear drive shaft inboard joints.



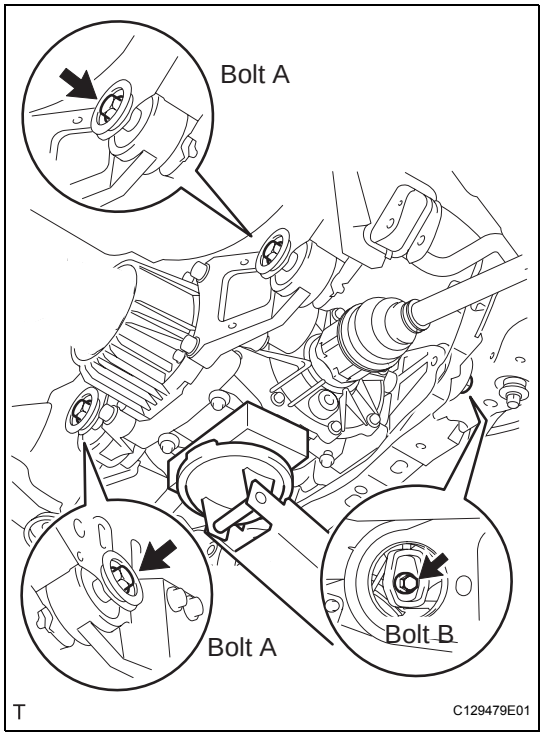
(c) Align the splines of the rear drive shaft inboard joints and, using a brass bar and hammer, tap in the left and right rear drive shafts.

NOTICE:

- **Face the cutout section of the snap ring downward.**
- **Do not damage the oil seal during the insertion.**
- **Do not strike the tip of the outboard joint with the hammer.**

HINT:

Determine whether or not the rear drive shaft is completely tapped in by checking for changes in sound or the reaction force of the brass bar.



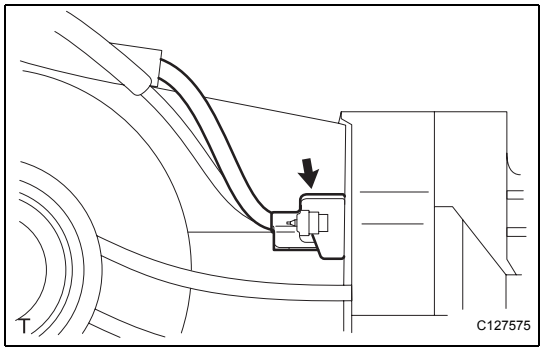
(d) Slowly raise the transmission jack, install the 3 bolts.

Torque: 86 N*m (877 kgf*cm, 63 ft.*lbf) for bolt A
106 N*m (1,080 kgf*cm, 78 ft.*lbf) for bolt B

NOTICE:

Tighten the bolts, not the nuts.

DF



(e) Connect the connector.

(f) Install the breather tube.

(g) Connect the harness clamp.

5. INSTALL REAR SUSPENSION MEMBER BRACE LH

(a) Install the member brace with the 2 bolts to the suspension member.

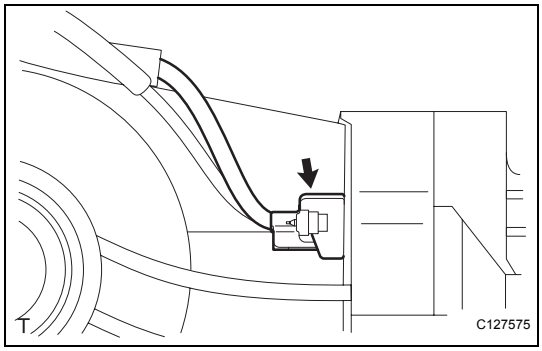
Torque: 35 N*m (357 kgf*cm, 26 ft.*lbf) [Corrected]

6. INSTALL REAR SUSPENSION MEMBER BRACE RH

HINT:

Use the same procedures described for the LH side.

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(e) Connect the connector.
(f) Install the breather tube.
(g) Connect the harness clamp.

5. **INSTALL REAR SUSPENSION MEMBER BRACE LH**
(a) Install the member brace with the 2 bolts to the suspension member.
Torque: 35 N*m (357 kgf*cm, 26 ft.*lbf) [Corrected]

6. **INSTALL REAR SUSPENSION MEMBER BRACE RH**
HINT:
Use the same procedures described for the LH side.

7. **TEMPORARILY INSTALL PROPELLER WITH CENTER BEARING SHAFT ASSEMBLY (See page)**

8. **TIGHTEN PROPELLER WITH CENTER BEARING SHAFT ASSEMBLY (See page)**

9. **INSPECT JOINT ANGLE (See page)**

10. **INSTALL FRONT EXHAUST PIPE ASSEMBLY**
HINT:
- 2AD-FTV: (see page ○○-○○ for CCO, ○○-○○ for DPF).
- 2AD-FHV: (see page ○○-○○).

DF

11. **INSTALL CENTER EXHAUST PIPE ASSEMBLY**
HINT:
- 1AZ-FE: (see page ○○-○○).
- 2AZ-FE: (see page ○○-○○).

12. **INSTALL TAILPIPE ASSEMBLY**
HINT:
- 1AZ-FE: (see page ○○-○○).
- 2AD-FTV: (see page ○○-○○ for CCO, ○○-○○ for DPF).
- 2AD-FHV: (see page ○○-○○).
- 2AZ-FE: (see page ○○-○○).

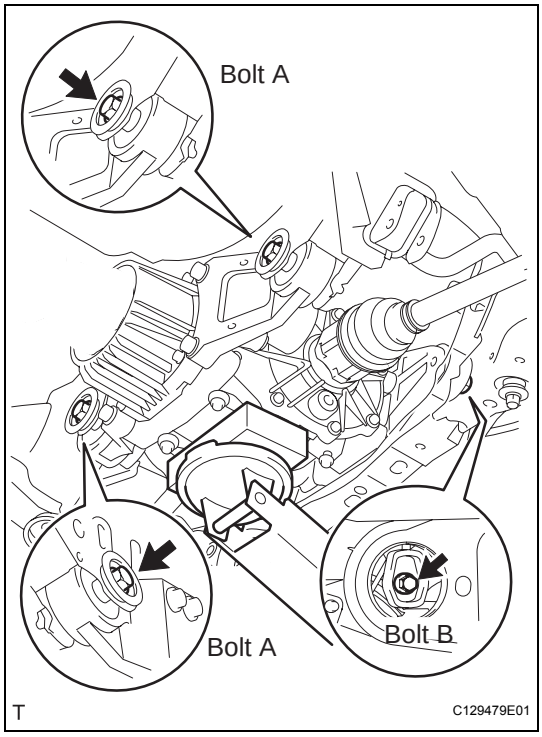
13. **INSTALL FUEL TANK ASSEMBLY**
(a) Install the fuel tank for 1AZ-FE (see page ○○-○○).
(b) Install the fuel tank for 2AD-FTV (see page ○○-○○).
(c) Install the fuel tank for 2AD-FHV (see page ○○-○○).
(d) Install the fuel tank for 2AZ-FE (see page ○○-○○).

14. **ADD DIFFERENTIAL OIL**
(a) Add differential oil (see page DF-4).

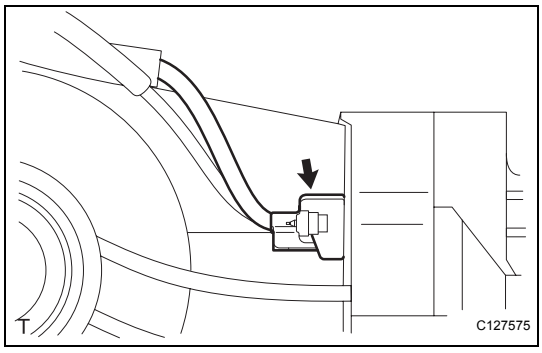
15. **CHECK FOR DIFFERENTIAL OIL LEAKAGE**

16. **CHECK FOR EXHAUST GAS LEAKAGE**
If gas is leaking, tighten the areas necessary to stop the leak. Replace damaged parts as necessary.

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(d) Slowly raise the transmission jack, install the 3 bolts.
Torque: 86 N*m (877 kgf*cm, 63 ft.*lbf) for bolt A
106 N*m (1,080 kgf*cm, 78 ft.*lbf) for bolt B
NOTICE:
Tighten the bolts, not the nuts.



DF

(e) Connect the connector.
(f) Install the breather tube.
(g) Connect the harness clamp.

5. INSTALL REAR SUSPENSION MEMBER BRACE LH
(a) Install the member brace with the 2 bolts to the suspension member.
Torque: 35 N*m (357 kgf*cm, 26 ft.*lbf) [Corrected]

6. INSTALL REAR SUSPENSION MEMBER BRACE RH
HINT:
Use the same procedures described for the LH side.

7. TEMPORARILY INSTALL PROPELLER WITH CENTER BEARING SHAFT ASSEMBLY (See page)

8. TIGHTEN PROPELLER WITH CENTER BEARING SHAFT ASSEMBLY (See page)

9. INSPECT JOINT ANGLE (See page)

10. INSTALL FRONT EXHAUST PIPE ASSEMBLY
HINT:
- 2AD-FTV: (see page ○○-○○ for CCO, ○○-○○ for DPF).
- 2AD-FHV: (see page ○○-○○).

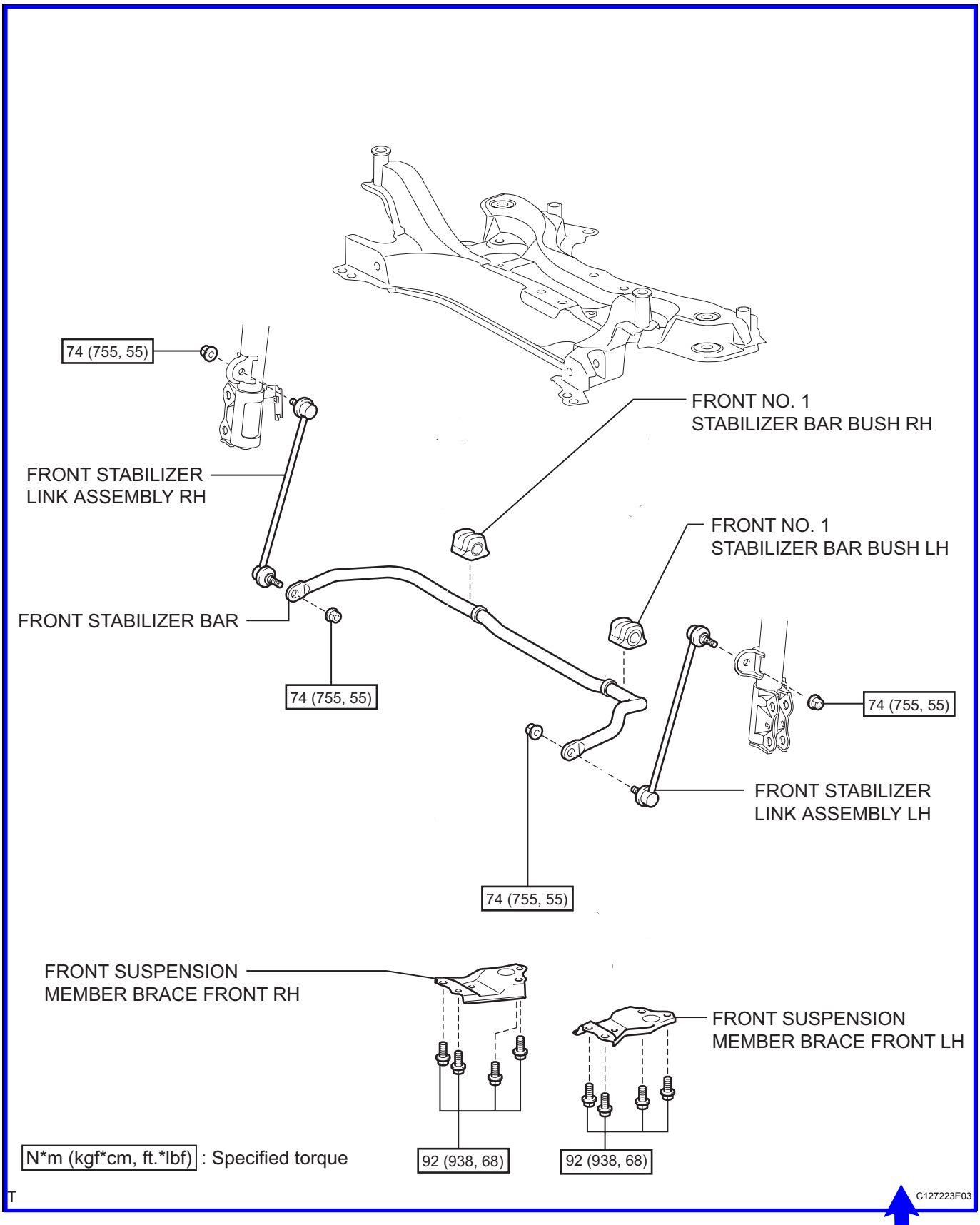
11. INSTALL CENTER EXHAUST PIPE ASSEMBLY
HINT:
- 1AZ-FE: (see page ○○-○○).
- 2AZ-FE: (see page ○○-○○).
- 2GR-FE: (see page ○○-○○).

12. INSTALL TAILPIPE ASSEMBLY
HINT:
- 1AZ-FE: (see page ○○-○○).

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FRONT STABILIZER BAR

COMPONENTS



[Corrected]

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2. **INSTALL FRONT NO. 1 STABILIZER BAR BUSH RH**
HINT:
Use the same procedures described for the LH side.

3. **INSTALL FRONT STABILIZER BAR**
(a) Install the stabilizer bar to the crossmember.

4. **INSTALL FRONT SUSPENSION MEMBER BRACE FRONT LH**
(a) Install the member brace with the 4 bolt to the suspension member.

[Corrected] **Torque: 92 N*m (938 kgf*cm, 68 ft.*lbf)**

5. **INSTALL FRONT SUSPENSION MEMBER BRACE FRONT RH**
HINT:
Use the same procedures described for the LH side.

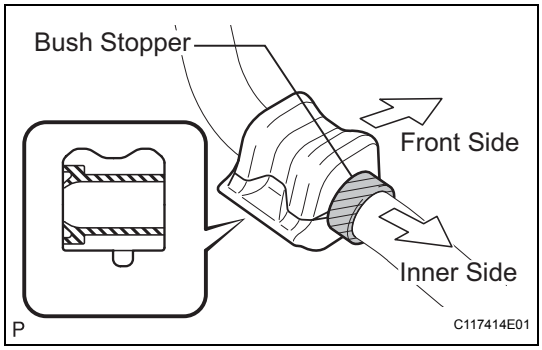
6. **INSTALL FRONT STABILIZER LINK ASSEMBLY LH**
(a) Install the link with the 2 nuts.
Torque: 74 N*m (755 kgf*cm, 55 ft.*lbf)

7. **INSTALL FRONT STABILIZER LINK ASSEMBLY RH**
HINT:
Use the same procedures described for the LH side.

8. **INSTALL FRONT WHEEL**
Torque: 103 N*m (1,050 kgf*cm, 76 ft.*lbf)

9. **STABILIZE SUSPENSION (See page SP-84)**

SP



INSTALLATION

(2007/01-2007/08)

1. **INSTALL FRONT NO. 1 STABILIZER BAR BUSH LH**
(a) Install the bush.
HINT:
- Install each bush to the inner side of each bush stopper on the stabilizer bar.
- Install each bush with it slit facing the vehicle rear side.

2. **INSTALL FRONT NO. 1 STABILIZER BAR BUSH RH**
HINT:
Use the same procedures described for the LH side.

3. **INSTALL FRONT STABILIZER BAR**
(a) Install the stabilizer bar to the crossmember.

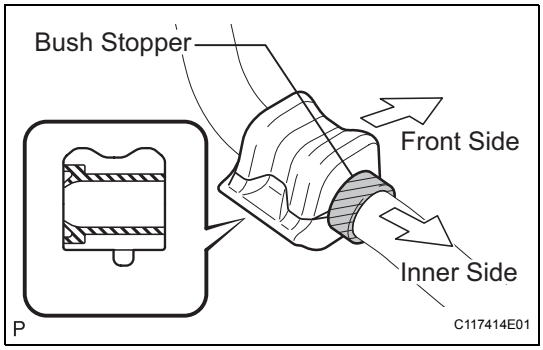
4. **INSTALL FRONT SUSPENSION MEMBER BRACE FRONT LH**
(a) Install the member brace with the 4 bolt to the suspension member.

[Corrected] **Torque: 92 N*m (938 kgf*cm, 68 ft.*lbf)**

5. **INSTALL FRONT SUSPENSION MEMBER BRACE FRONT RH**
HINT:
Use the same procedures described for the LH side.

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6. **INSTALL FRONT STABILIZER LINK ASSEMBLY LH**
   (a) Install the link with the 2 nuts.
   Torque: 74 N*m (755 kgf*cm, 55 ft.*lbf)
7. **INSTALL FRONT STABILIZER LINK ASSEMBLY RH**
   HINT:
   Use the same procedures described for the LH side.
8. **INSTALL FRONT WHEEL**
   Torque: 103 N*m (1050 kgf*cm, 76 ft.*lbf)
9. **STABILIZE SUSPENSION (See page SP-85)**



INSTALLATION

(2007/08-)

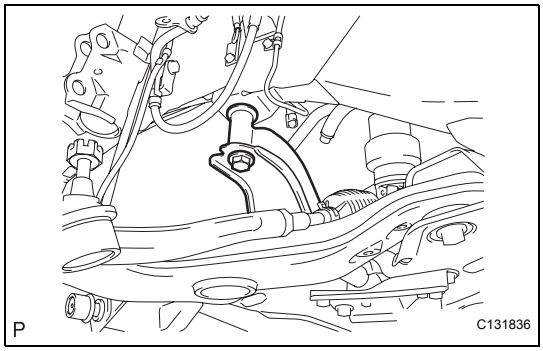
1. **INSTALL FRONT NO. 1 STABILIZER BAR BUSH LH**
   (a) Install the bush.
   HINT:
   - Install each bush to the inner side of each bush stopper on the stabilizer bar.
   - Install each bush with it slit facing the vehicle rear side.
2. **INSTALL FRONT NO. 1 STABILIZER BAR BUSH RH**
   HINT:
   Use the same procedures described for the LH side.
3. **INSTALL FRONT STABILIZER BAR**
   (a) Install the stabilizer bar to the crossmember.
4. **INSTALL FRONT SUSPENSION MEMBER BRACE FRONT LH**
   (a) Install the member brace with the 4 bolt to the suspension member.

[Corrected] **Torque: 92 N*m (938 kgf*cm, 68 ft.*lbf)**

5. **INSTALL FRONT SUSPENSION MEMBER BRACE FRONT RH**
   HINT:
   Use the same procedures described for the LH side.
6. **INSTALL FRONT STABILIZER LINK ASSEMBLY LH**
   (a) Install the link with the 2 nuts.
   Torque: 74 N*m (755 kgf*cm, 55 ft.*lbf)
7. **INSTALL FRONT STABILIZER LINK ASSEMBLY RH**
   HINT:
   Use the same procedures described for the LH side.
8. **INSTALL FRONT WHEEL**
   Torque: 103 N*m (1050 kgf*cm, 76 ft.*lbf)
9. **STABILIZE SUSPENSION (See page SP-86)**

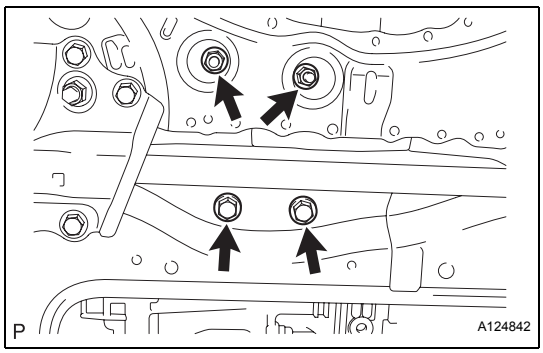
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(f) Install the suspension member with the bolt to the body.

(g) Perform the procedure above on the other side.



(h) Install the engine mounting insulator rear with the 2 nuts and 2 bolts.

4. INSTALL FRONT STABILIZER LINK ASSEMBLY LH (See page SP-38)

5. CONNECT FRONT SUSPENSION LOWER NO. 1 ARM SUB-ASSEMBLY LH

(a) Connect the lower arm with the 2 bolts and nut to the ball joint.

Torque: 92 N*m (938 kgf*cm, 68 ft.*lbf)

6. INSTALL FRONT WHEEL

Torque: 103 N*m (1,050 kgf*cm, 76 ft.*lbf)

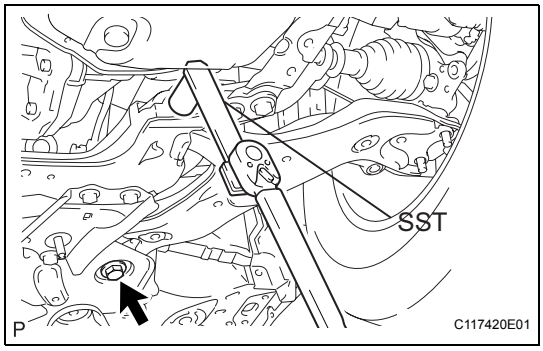
7. STABILIZE SUSPENSION (See page SP-84)

8. TIGHTEN FRONT SUSPENSION CROSSMEMBER SUB-ASSEMBLY

(a) Tighten the bolts and nuts.

[Corrected]

Torque: 99 N*m (1010 kgf*cm, 73 ft.*lbf) for bolt A
93 N*m (948 kgf*cm, 69 ft.*lbf) for bolt B
145 N*m (1,479 kgf*cm, 107 ft.*lbf) for body
95 N*m (969 kgf*cm, 70 ft.*lbf) for engine mounting insulator



9. TIGHTEN FRONT SUSPENSION LOWER NO. 1 ARM SUB-ASSEMBLY LH

(a) Using SST, and tighten the bolt on the front side.

SST 09961-01270

Torque: 223 N*m (2,376 kgf*cm, 172 ft.*lbf) for use without SST
175 N*m (1,785 kgf*cm, 129 ft.*lbf) for use with SST

NOTICE:
Do not tighten the nut.

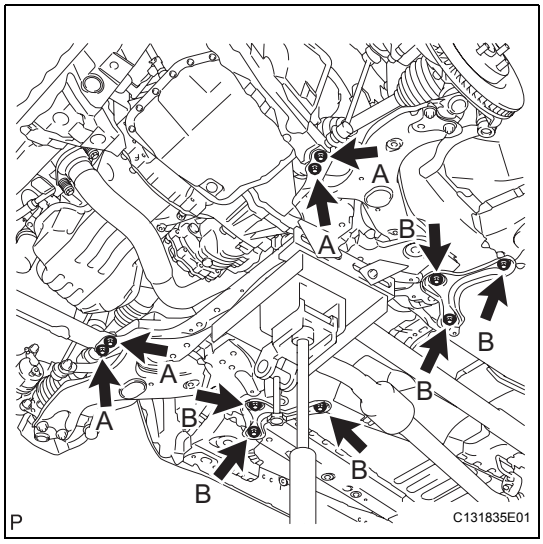
(b) Fix the nut in place and tighten the bolt on the rear side.

Torque: 223 N*m (2,376 kgf*cm, 172 ft.*lbf)

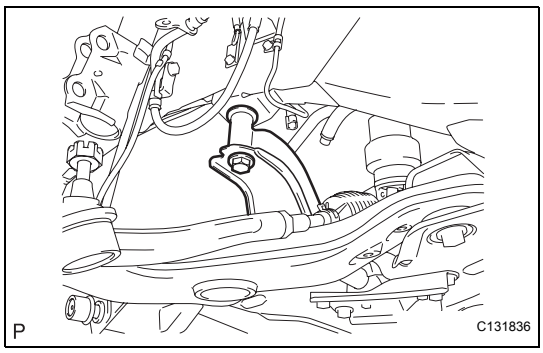
NOTICE:
Do not tighten the nut.

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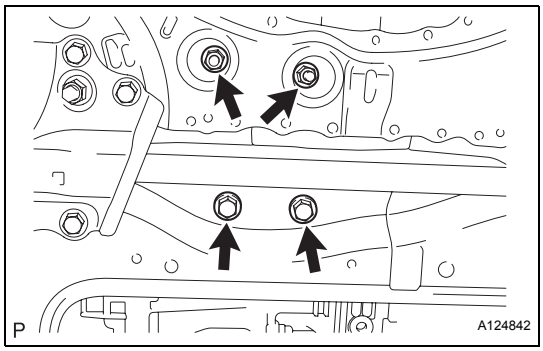
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(d) Install the member reinforcement with the 4 bolts labeled A.
(e) Install the suspension member brace with the 6 bolts labeled B.



(f) Install the suspension member with the bolt to the body.
(g) Perform the procedure above on the other side.



(h) Install the engine mounting insulator rear with the 2 nuts and 2 bolts.

4. INSTALL FRONT STABILIZER LINK ASSEMBLY LH (See page SP-39)

5. CONNECT FRONT SUSPENSION LOWER NO. 1 ARM SUB-ASSEMBLY LH

(a) Connect the lower arm with the 2 bolts and nut to the ball joint.
Torque: 92 N*m (938 kgf*cm, 68 ft.*lbf)

6. INSTALL FRONT WHEEL
Torque: 103 N*m (1050 kgf*cm, 76 ft.*lbf)

7. STABILIZE SUSPENSION (See page SP-85)

8. TIGHTEN FRONT SUSPENSION CROSSMEMBER SUB-ASSEMBLY

(a) Tighten the bolts and nuts.

[Corrected] **Torque: 99 N*m (1010 kgf*cm, 73 ft.*lbf) for bolt A**
93 N*m (948 kgf*cm, 69 ft.*lbf) for bolt B
145 N*m (1479 kgf*cm, 107 ft.*lbf) for body
95 N*m (969 kgf*cm, 70 ft.*lbf) for engine mounting insulator

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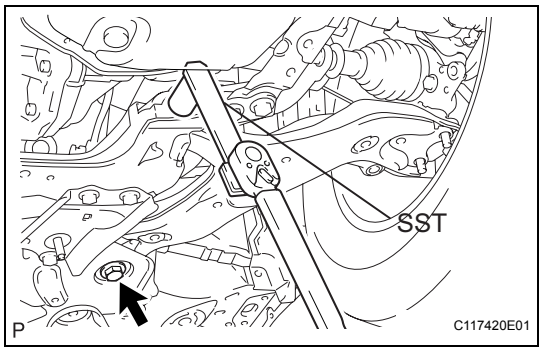
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8. TIGHTEN FRONT SUSPENSION CROSSMEMBER SUB-ASSEMBLY

(a) Tighten the bolts and nuts.

[Corrected]

Torque: 99 N*m (1010 kgf*cm, 73 ft.*lbf) for bolt A
93 N*m (948 kgf*cm, 69 ft.*lbf) for bolt B
145 N*m (1479 kgf*cm, 107 ft.*lbf) for body
95 N*m (969 kgf*cm, 70 ft.*lbf) for engine mounting insulator



9. TIGHTEN FRONT SUSPENSION LOWER NO. 1 ARM SUB-ASSEMBLY LH

(a) Using SST, and tighten the bolt on the front side.
SST 09961-01270
Torque: 223 N*m (2376 kgf*cm, 172 ft.*lbf) for use without SST
175 N*m (1785 kgf*cm, 129 ft.*lbf) for use with SST
NOTICE:
Do not tighten the nut.

(b) Fix the nut in place and tighten the bolt on the rear side.
Torque: 223 N*m (2376 kgf*cm, 172 ft.*lbf)
NOTICE:
Do not tighten the nut.

10. TIGHTEN FRONT SUSPENSION LOWER NO. 1 ARM SUB-ASSEMBLY RH

HINT:
Use the same procedures described for the LH side.

11. INSTALL HOOD SUB-ASSEMBLY (See page)

12. INSPECT AND ADJUST HOOD SUB-ASSEMBLY (See page)

13. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT

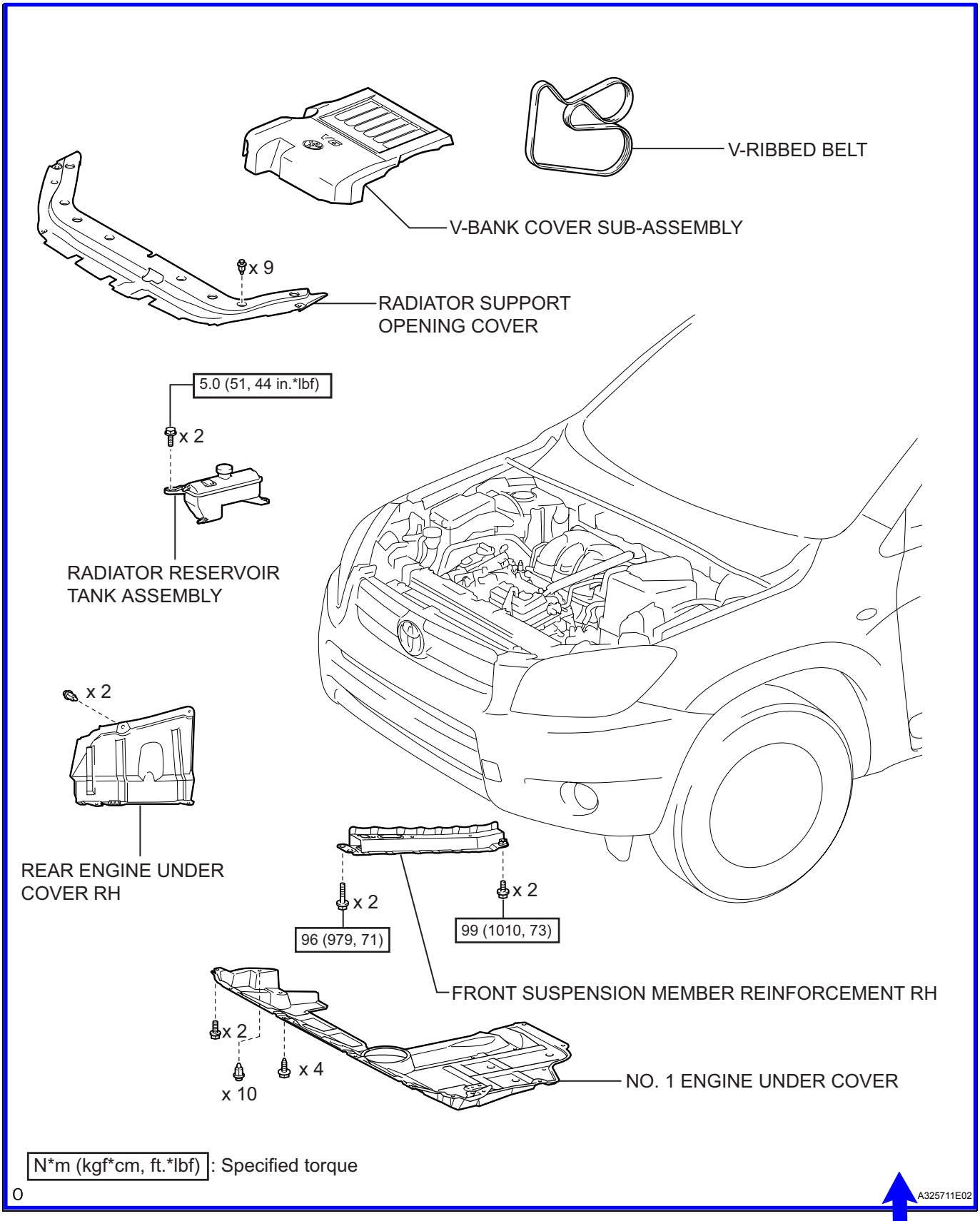
(a) Inspect and adjust the front wheel alignment (see page SP-8).

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COMPRESSOR AND MAGNETIC CLUTCH (for 2GR-FE)

COMPONENTS



[Corrected]

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