TOYOTA SERVICE BULLETIN

Group: 01 No.: 06 Date: Nov, 12

Landcruiser 200

Corrections to Repair Manual RM19U1E

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.		

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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OB-2H71 (RM19U1E)

Section	Title	Paragraph
SPECIFICATIONS	1VD-FTV INTAKE / EXHAUST	TORQUE SPECIFICATIONS (2011/09 - 2012/01)
		TORQUE SPECIFICATIONS (2012/01 -)
	POWER ASSIST SYSTEMS	TORQUE SPECIFICATIONS (2011/09 - 2012/01)
		TORQUE SPECIFICATIONS (2012/01 -)
1VD-FTV ENGINE CONTROL	POWER STEERING OIL PRESSURE SWITCH	COMPONENTS (2011/09 - 2012/01)
1VD-FTV ENGINE MECHANICAL	DRIVE BELT	COMPONENTS (2011/09 - 2012/01)
	CAMSHAFT (w/o DPF)	COMPONENTS (2011/09 - 2012/01) COMPONENTS (2012/01 -)
	FRONT CRANKSHAFT OIL SEAL	COMPONENTS (2011/09 - 2012/01)
	ENGINE ASSEMBLY	COMPONENTS (2011/09 - 2012/01)
1VD-FTV FUEL	FUEL INJECTOR (w/o DPF)	COMPONENTS
	FUEL SUPPLY PUMP	COMPONENTS (2011/09 - 2012/01)
	COMMON RAIL	COMPONENTS (2011/09 - 2012/01)
	FUEL COOLER (for Engine Room Side)	COMPONENTS
1VD-FTV EMISSION CONTROL	EGR VALVE	COMPONENTS (2011/09 - 2012/01)
	EGR COOLER	COMPONENTS (2011/09 - 2012/01)

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Section	Title	Paragraph
1VD-FTV INTAKE / EXHAUST	INTAKE MANIFOLD	COMPONENTS (2011/09 - 2012/01)
		INSTALLATION (2011/09 - 2012/01)
		INSTALLATION (2012/01 -)
1VD-FTV COOLING	WATER PUMP	COMPONENTS (2011/09 - 2012/01)
	THERMOSTAT	COMPONENTS (2011/09 - 2012/01)
	RADIATOR	COMPONENTS (2011/09 - 2012/01)
1VD-FTV STARTING	GLOW PLUG	COMPONENTS (2011/09 - 2012/01)
1VD-FTV BATTERY/CHARGING	GENERATOR	COMPONENTS (2011/09 - 2012/01)
POWER ASSIST SYSTEMS	VANE PUMP (for 1UR-FE)	COMPONENTS
	VANE PUMP (for 1VD-FTV with DPF)	COMPONENTS
	VANE PUMP (for 1VD-FTV without DPF)	COMPONENTS
HEATING/ AIR CONDITIONING	HEATER WATER PUMP (w/ Viscous Heater)	COMPONENTS
	HEATER WATER PUMP (w/ Viscous Heater)	INSTALLATION (2011/09 - 2012/01)
	HEATER WATER PUMP (w/ Viscous Heater)	INSTALLATION (2012/01 -)

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SPECIFICATIONS – 1VD-FTV INTAKE / EXHAUST

Part Tightened		N*m	kgf*cm	ft.*lbf
No. 4 air tube x Air tube support		21	214	15
No. 4 air tube x No. 2 air tube		6.3	64	56 in.*lbf
Suction hose x No. 4 air tube		9.8	100	87 in.*lbf
No. 2 air hose x Intercooler		6.3	64	56 in.*lbf
No. 3 air tube x No. 1 intake air connector bracket		21	214	15
No. 3 air tube x No. 1 air tube		6.3	64	56 in.*lbf
No. 1 air hose x Intercooler		6.3	64	56 in.*lbf
Intake air connector x Timing chain cover and No. 3 engine hanger		21	214	15
Intake air connector x No. 1 and No. 2 air cleaner pipe		6.3	64	56 in.*lbf
No. 1 air cleaner hose x Air cleaner case and intake air connector		2.5	25	22 in.*lbf
No. 2 engine oil level dipstick guide x Cylinder head cover and air tube		10	102	7
No. 2 cool air inlet x No. 2 intercooler support bracket and No. 3 intercooler support bracket and Air tube LH	w/o Intercooler	21	214	15
No. 2 air hose x No. 2 cool air inlet	w/o Intercooler	6.3	64	56 in.*lbf
No. 1 cool air inlet x Intercooler support bracket and Air tube RH	w/o Intercooler	21	214	15
No. 1 air hose x No. 1 cool air inlet	w/o Intercooler	6.3	64	56 in.*lbf

[Corrected]

EXHAUST MANIFOLD W/ TURBOCHARGER

Part Tightened		N*m	kgf*cm	ft.*lbf
Stud bolt	No. 1 turbocharger 41.4 mm (1.63 in.) bolt length	20	204	15
	No. 1 turbocharger 39.5 mm (1.56 in.) bolt length	20	204	15
	No. 1 turbocharger 23.5 mm (0.925 in.) bolt length	6.0	61	53 in.*lbf
	No. 2 turbocharger 39.5 mm (1.56 in.) bolt length	20	204	15
	Exhaust manifold RH 39.5 mm (1.56 in.) bolt length	20	204	15
No. 2 inlet turbo oil pipe x No. 2 turbocharger	for union bolt	29	296	21
	for bolt	10	102	7
No. 2 turbo oil pipe x No. 2 turbocharger		10	102	7
No. 2 inlet compressor elbow x No. 2 turbocharger		21	214	15
No. 2 turbocharger x Exhaust manifold LH		60	612	44
No. 2 turbocharger with exhaust manifold LH x Cylinder head LH		36	367	27
No. 2 inlet turbo oil pipe x No. 1 oil pan		29	296	21
No. 2 ventilation tube x No. 2 turbo oil pipe		29	296	21
No. 2 ventilation tube x Exhaust manifold LH		10	102	7
No. 2 turbocharger stay x No. 2 turbocharger and cylinder block		49	495	36

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SPECIFICATIONS – 1VD-FTV INTAKE / EXHAUST

Part Tightened		N*m	kgf*cm	ft.*lbf
No. 4 air tube x No. 2 air tube		6.3	64	56 in.*lbf
Suction hose x No. 4 air tube		9.8	100	87 in.*lbf
No. 2 air hose x Intercooler		6.3	64	56 in.*lbf
No. 3 air tube x No. 1 intake air connector bracket		21	214	15
No. 3 air tube x No. 1 air tube		6.3	64	56 in.*lbf
No. 1 air hose x Intercooler		6.3	64	56 in.*lbf
Intake air connector x Timing chain cover and No. 3 engine hanger		21	214	15
Intake air connector x No. 1 and No. 2 air cleaner pipe		6.3	64	56 in.*lbf
No. 1 air cleaner hose x Air cleaner case and intake air connector		2.5	25	22 in.*lbf
No. 2 engine oil level dipstick guide x Cylinder head cover RH and air tube		10	102	7
No. 2 cool air inlet x No. 2 intercooler support bracket and No. 3 intercooler support bracket and Air tube LH	w/o Intercooler	21	214	15
No. 2 air hose x No. 2 cool air inlet	w/o Intercooler	6.3	64	56 in.*lbf
No. 1 cool air inlet x Intercooler support bracket and Air tube RH	w/o Intercooler	21	214	15
No. 1 air hose x No. 1 cool air inlet	w/o Intercooler	6.3	64	56 in.*lbf

[Corrected]

EXHAUST MANIFOLD W/ TURBOCHARGER

Part Tightened		N*m	kgf*cm	ft.*lbf
Stud bolt	No. 1 turbocharger 41.4 mm (1.63 in.) bolt length	20	204	15
	No. 1 turbocharger 39.5 mm (1.56 in.) bolt length	20	204	15
	No. 1 turbocharger 23.5 mm (0.925 in.) bolt length	6.0	61	53 in.*lbf
	No. 2 turbocharger 39.5 mm (1.56 in.) bolt length	20	204	15
	Exhaust manifold LH 39.5 mm (1.56 in.) bolt length	20	204	15
No. 2 inlet turbo oil pipe x No. 2 turbocharger	for union bolt	29	296	21
	for bolt	10	102	7
No. 2 turbo oil pipe x No. 2 turbocharger		10	102	7
No. 2 inlet compressor elbow x No. 2 turbocharger		21	214	15
No. 2 turbocharger x Exhaust manifold LH		69	704	51
No. 2 exhaust manifold pipe x Exhaust manifold LH	w/ DPF	21	214	15
No. 2 turbocharger with exhaust manifold LH x Cylinder head LH		36	367	27
No. 2 inlet turbo oil pipe x No. 1 oil pan		29	296	21
No. 2 ventilation tube x No. 2 turbo oil pipe	for union bolt	29	296	21
No. 2 ventilation tube x Exhaust manifold LH		10	102	7
No. 2 turbocharger stay x No. 2 turbocharger and cylinder block		49	495	36
No. 2 turbo water pipe x No. 2 turbocharger	for union bolt	35	357	26
	for bolt	10	102	7
Front water by-pass joint x No. 2 turbocharger		50	510	37

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POWER ASSIST SYSTEMS

SERVICE DATA

Power Steering Fluid

Fluid level rise (Maximum)	5.0 mm (0.197 in.)
Fluid pressure at idle speed with valve closed	10000 to 10700 kPa (102.0 to 109.0 kgf/cm^2, 1450 to 1551 psi)
Fluid pressure at idle speed with valve fully open and turn the steering wheel to the full lock position	10000 to 10700 kPa (102.0 to 109.0 kgf/cm^2, 1450 to 1551 psi)

SS

Vane Pump

Vane pump shaft and vane pump housing oil clearance (Maximum)	0.07 mm (0.00276 in.)
Vane plate thickness (Standard)	1.405 to 1.411 mm (0.0553 to 0.0556 in.)
Clearance between the vane pump rotor groove and vane pump plate (Maximum)	0.03 mm (0.00118 in.)
Compression spring free length (Minimum)	31.3 mm (1.23 in.)
Vane pump rotating torque	0.3 N*m (3 kgf*cm, 2 in.*lbf) or less

TORQUE SPECIFICATIONS

(2011/09-2012/01)

Vane Pump (for 2UZ-FE)

Part tightened	N*m	kgf*cm	ft.*lbf
Air cleaner assembly set bolt	5.0	50	44 in.*lbf
Union bolt x Pressure feed tube	50	510	37
Vane pump assembly set bolt	21	214	15
Suction port union set bolt	12	122	9
Pressure port union	69	704	51
Front housing x Rear housing	22	224	16

Vane Pump (for 1VD-FTV)

Part tightened	N*m	kgf*cm	ft.*lbf
No. 1 engine under cover set nut	8.0	82	71 in.*lbf
No. 1 air cleaner hose clamp [Corrected]	2.5	25	22 in.*lbf
Intake air connector clamp	6.3	64	56 in.*lbf
Intake air clamp (w/ Viscous Heater)	6.3	64	56 in.*lbf

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Part tightened	N*m	kgf*cm	ft.*lbf
Intake air set bolt (w/ Viscous Heater)	21	214	15
Radiator reservoir assembly set bolt	8.0	82	71 in.*lbf
Union bolt x Pressure feed tube	50	510	37
Vane pump assembly x Engine	29	296	21
No. 3 idler pulley set bolt	88	898	64
No. 1 idler pulley set bolt	49	495	36
Suction port union Set bolt	12	122	9
Pressure port union	69	704	51
Pressure feed tube union Set bolt	69	704	51
Front housing x Rear housing	22	224	16

TORQUE SPECIFICATIONS

Vane Pump (for 1UR-FE)

Part tightened	N*m	kgf*cm	ft.*lbf
Air cleaner assembly set bolt	5.0	51	44 in.*lbf
Air cleaner hose clamp [Corrected]	2.5	25	22 in.*lbf
Union bolt x Pressure feed tube	50	510	37
Vane pump assembly set bolt	21	214	15
Suction port union set bolt	12	122	9
Pressure port union	69	704	51
Front housing x Rear housing	22	224	16

Vane Pump (for 1VD-FTV with DPF)

Part tightened	N*m	kgf*cm	ft.*lbf
No. 1 air cleaner hose clamp [Corrected]	2.5	25	22 in.*lbf
Intake air connector clamp	6.3	64	56 in.*lbf
Intake air set bolt	21	214	15
Radiator reservoir assembly set bolt	8.0	82	71 in.*lbf
Union bolt x Pressure feed tube	50	510	37
Vane pump assembly x Engine	29	296	21
No. 3 idler pulley set bolt	88	898	64

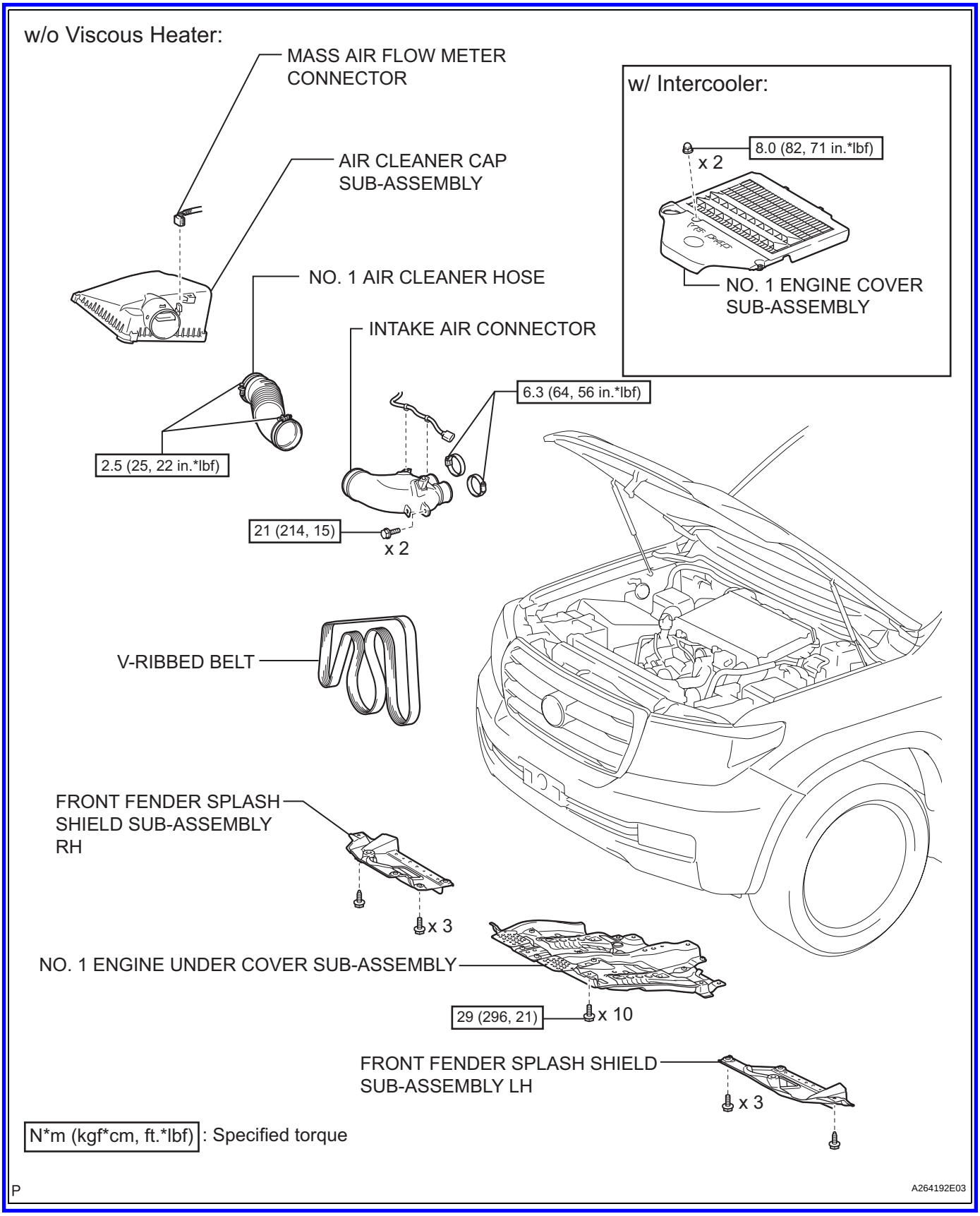
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Part tightened	N*m	kgf*cm	ft.*lbf
No. 1 idler pulley set bolt	49	495	36
Suction port union Set bolt	12	122	9
Front housing x Rear housing	22	224	16

Vane Pump (for 1VD-FTV without DPF)

Part tightened	N*m	kgf*cm	ft.*lbf
No. 1 engine cover set nut	8.0	82	71 in.*lbf
No. 1 air cleaner hose clamp [Corrected]	2.5	25	22 in.*lbf
Intake air connector clamp	6.3	64	56 in.*lbf
Intake air clamp (w/ Viscous Heater)	6.3	64	56 in.*lbf
Intake air set bolt (w/ Viscous Heater)	21	214	15
Radiator reservoir assembly set bolt	8.0	82	71 in.*lbf
Union bolt x Pressure feed tube	50	510	37
Vane pump assembly x Engine	29	296	21
No. 3 idler pulley set bolt	88	898	64
No. 1 idler pulley set bolt	49	495	36
Suction port union Set bolt	12	122	9
Pressure port union	69	704	51
Pressure feed tube union Set bolt	69	704	51
Front housing x Rear housing	22	224	16

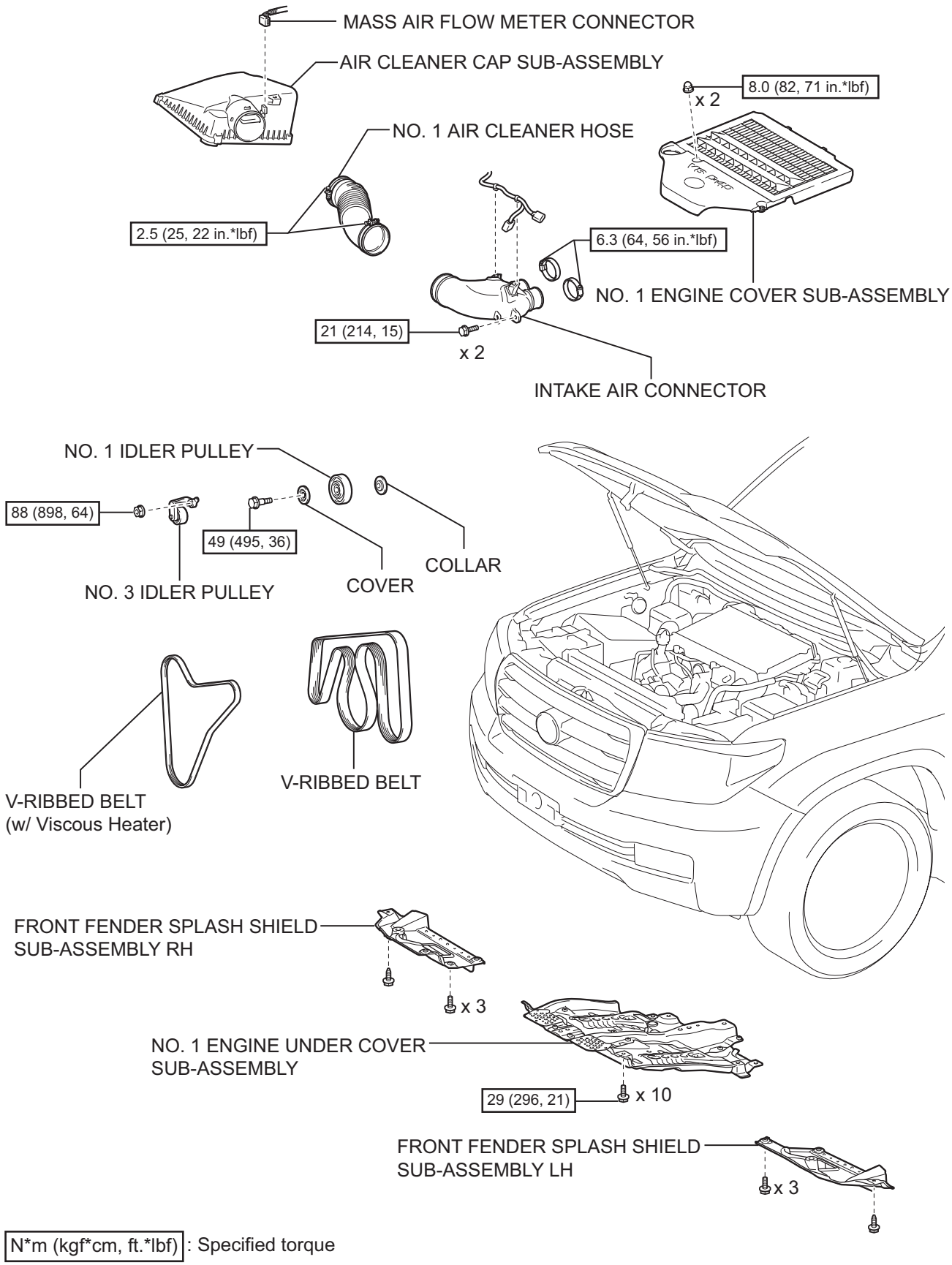
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w/ Viscous Heater:



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

P

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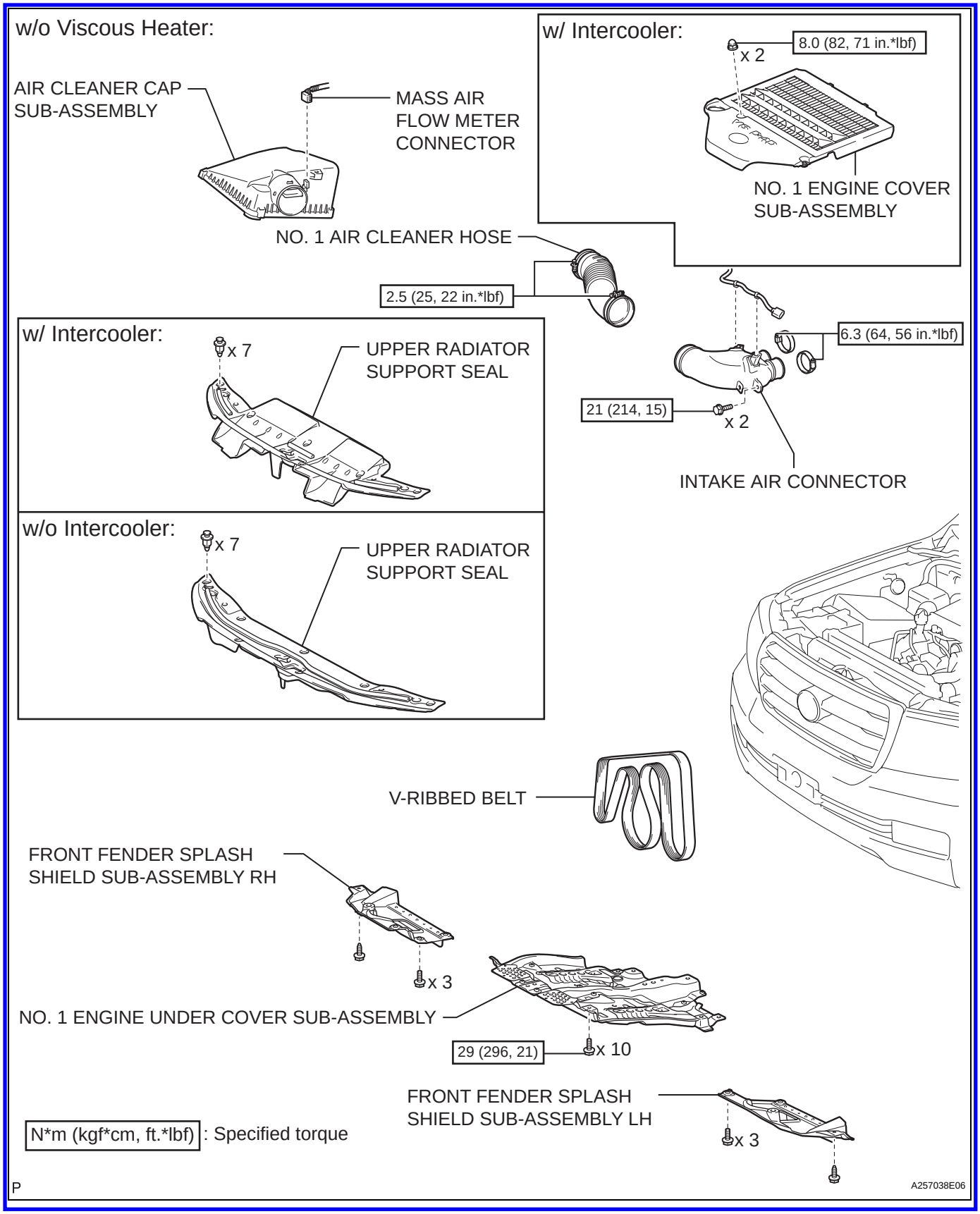
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DRIVE BELT

COMPONENTS

[All Corrected]

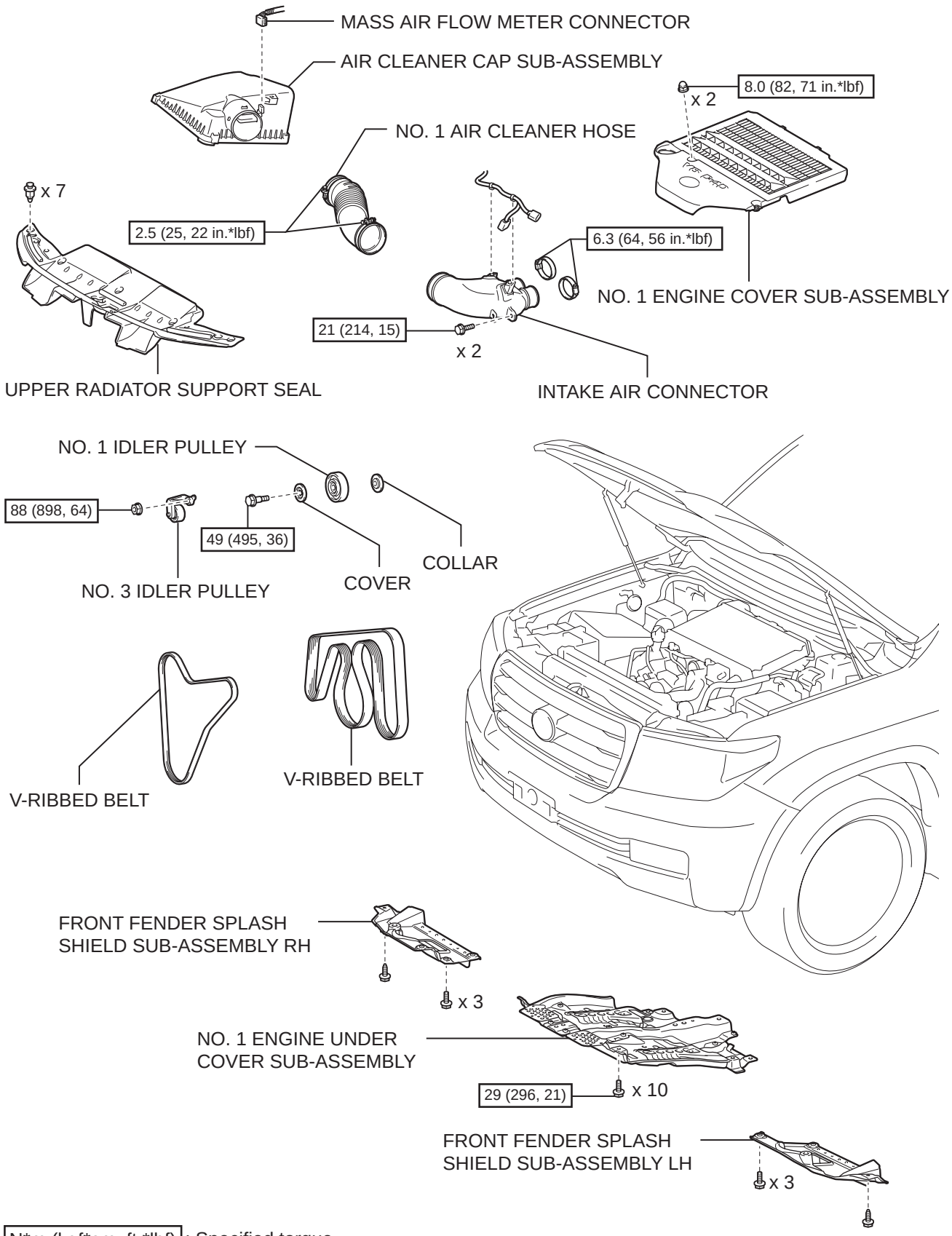
(2011/09-2012/01)



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w/ Viscous Heater:



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

P

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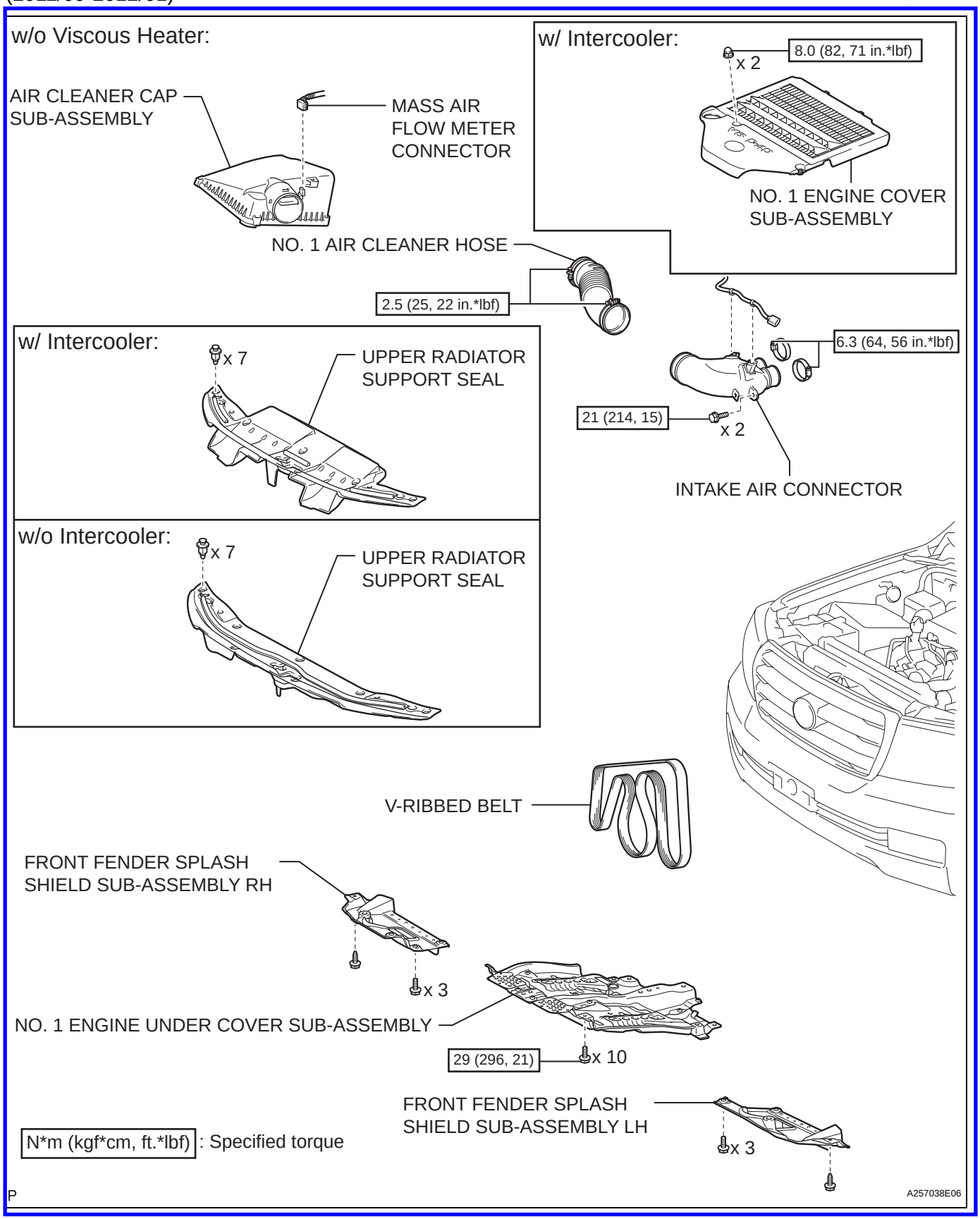
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CAMSHAFT (w/o DPF)

COMPONENTS

[All Corrected]

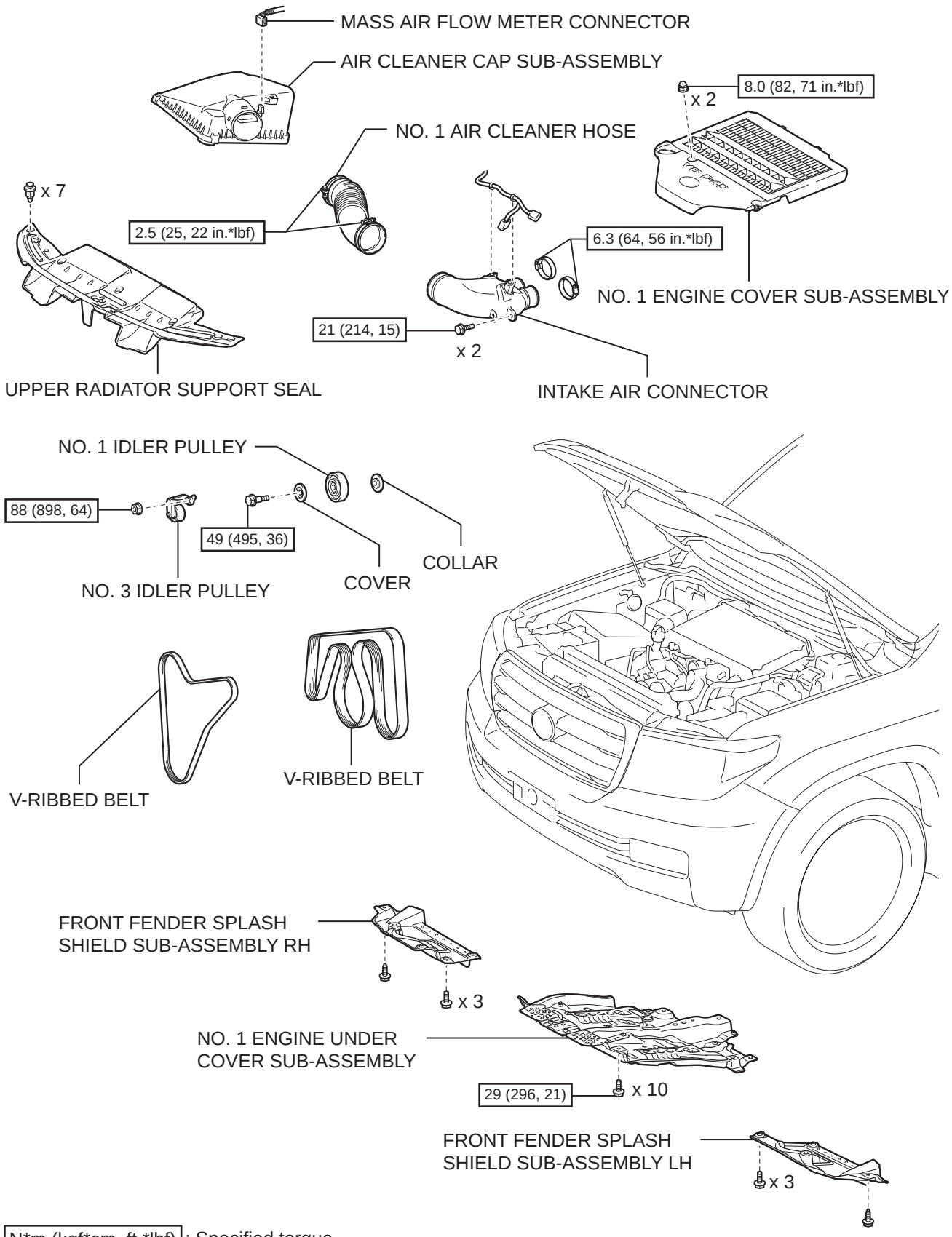
(2011/09-2012/01)



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w/ Viscous Heater:



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

P

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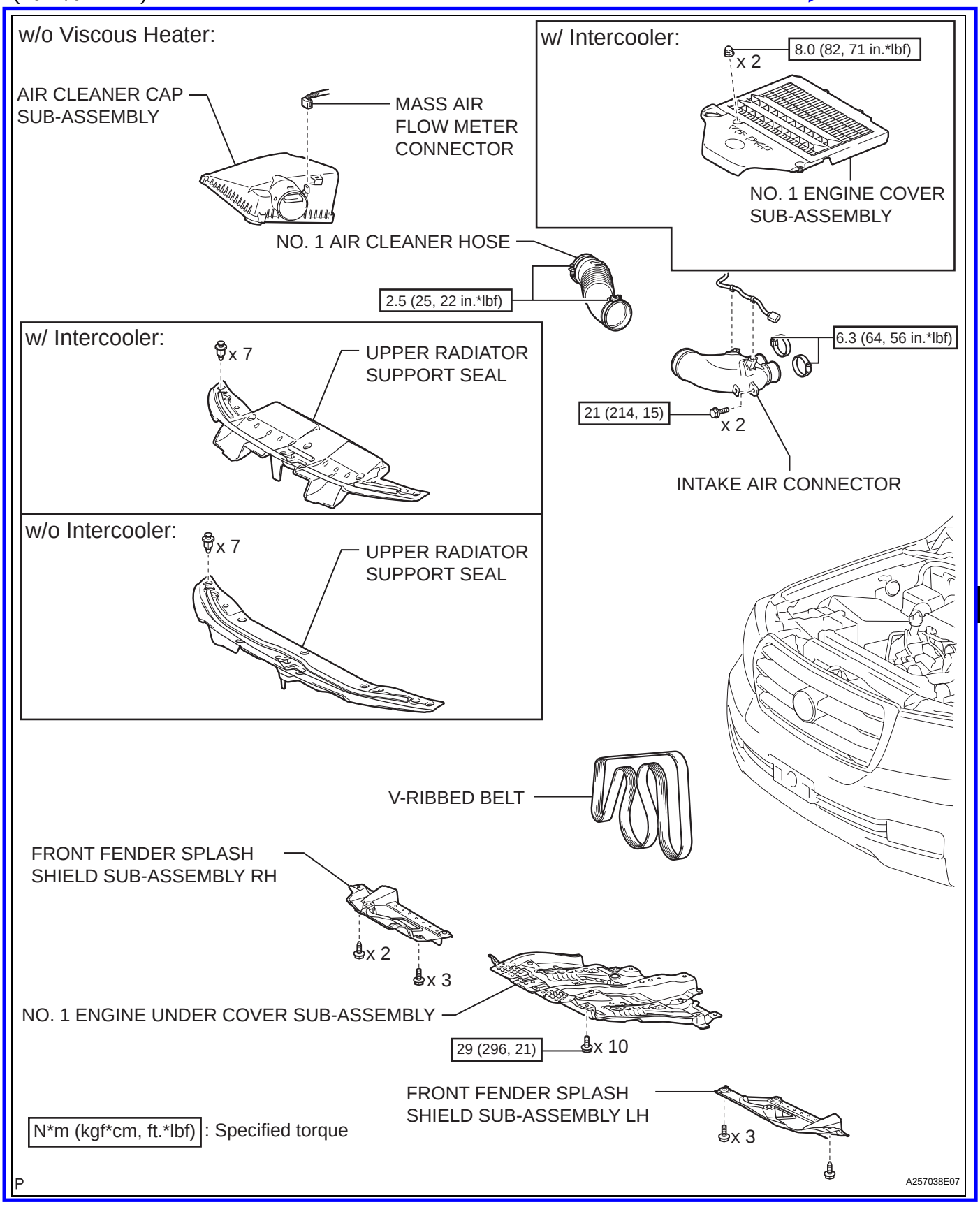
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COMPONENTS

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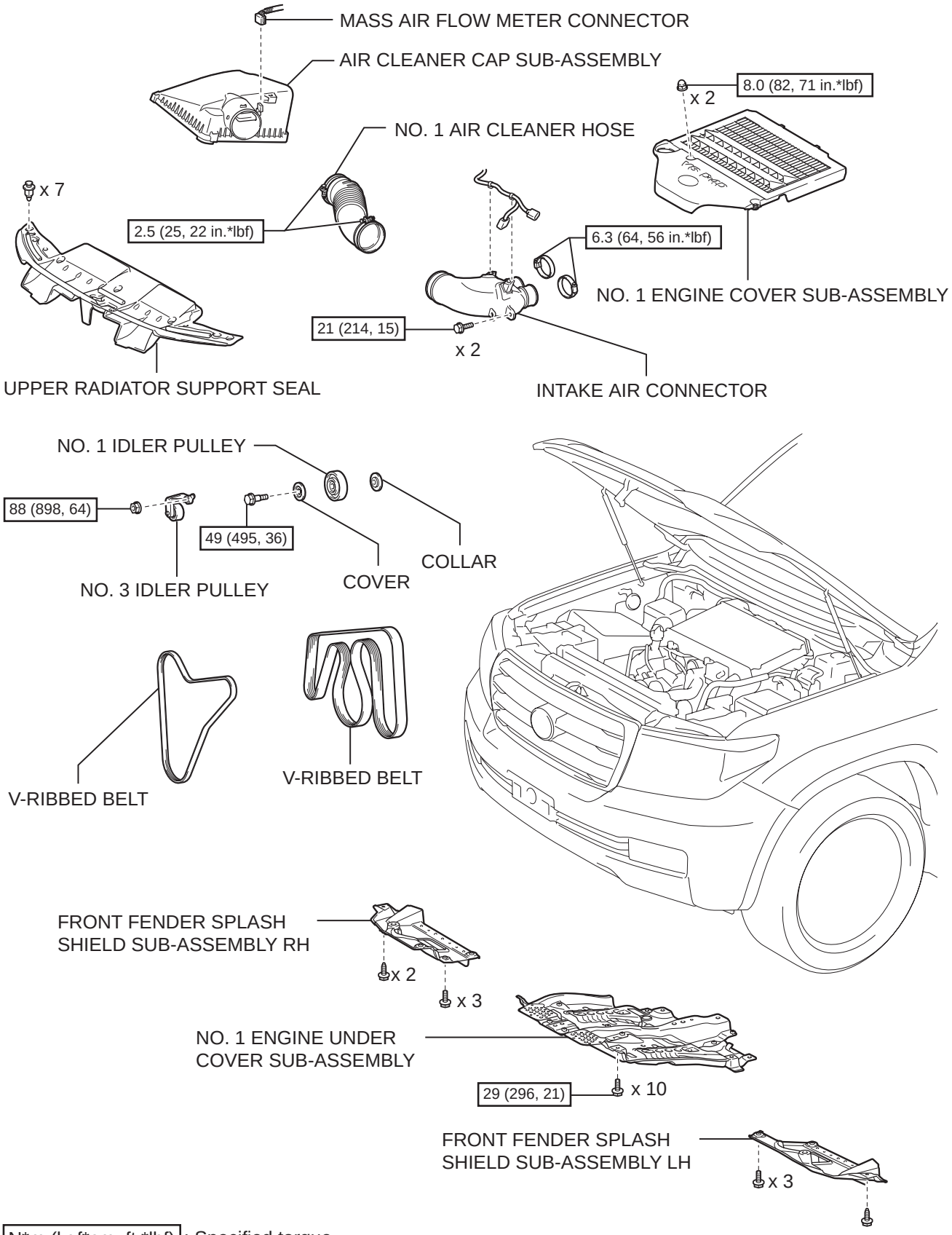
(2012/01-)



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w/ Viscous Heater:



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

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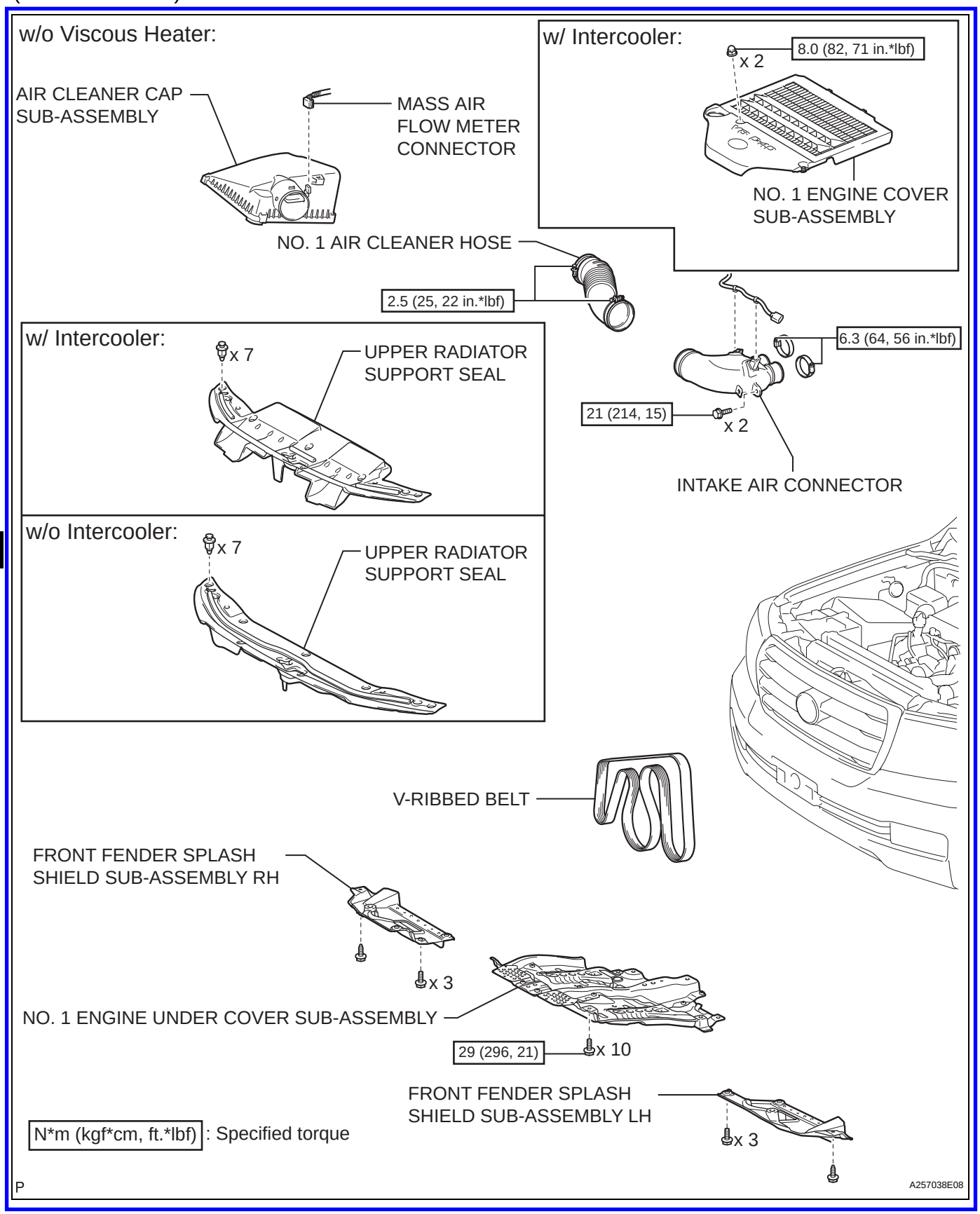
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FRONT CRANKSHAFT OIL SEAL

COMPONENTS

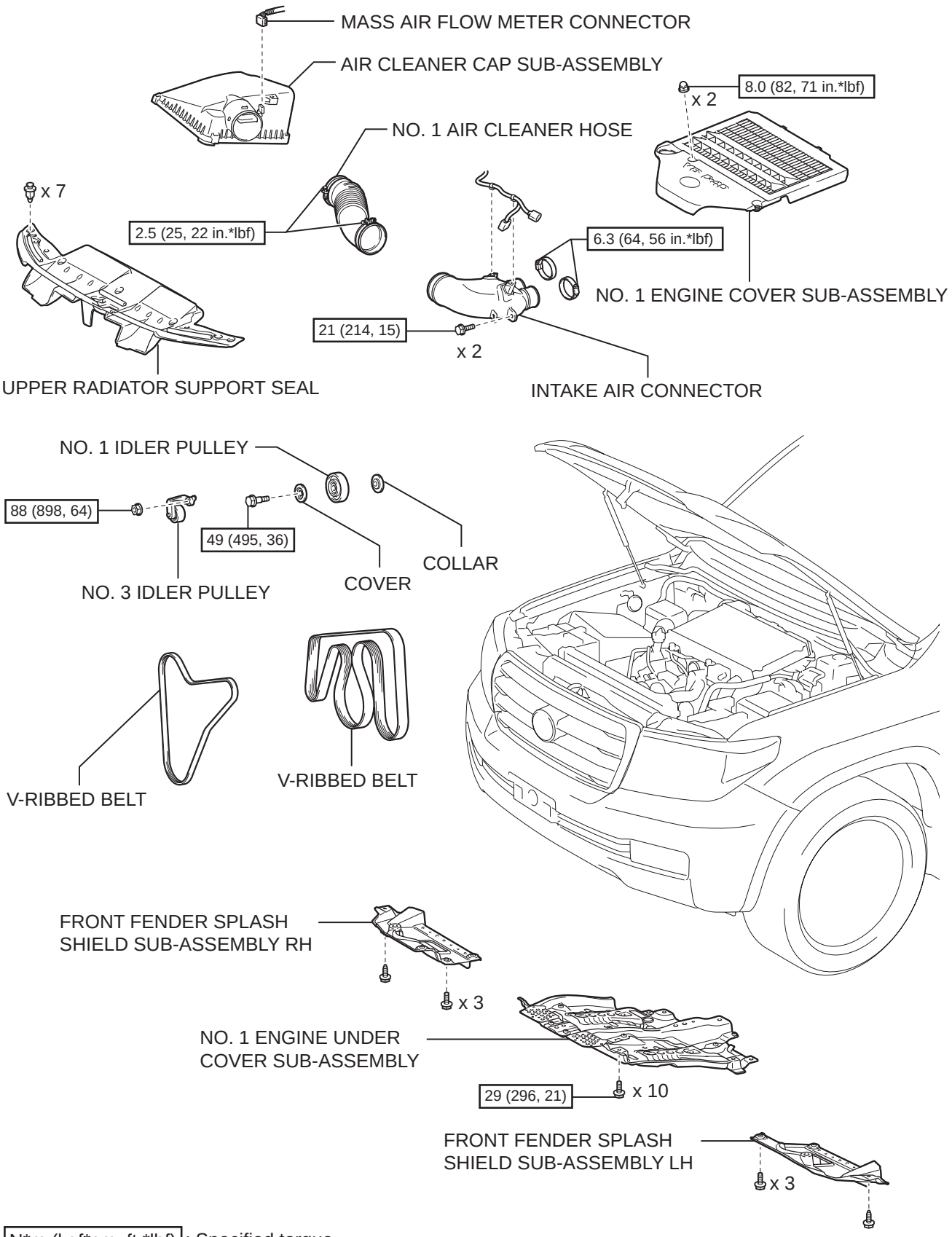
[All Corrected]

(2011/09-2012/01)



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w/ Viscous Heater:



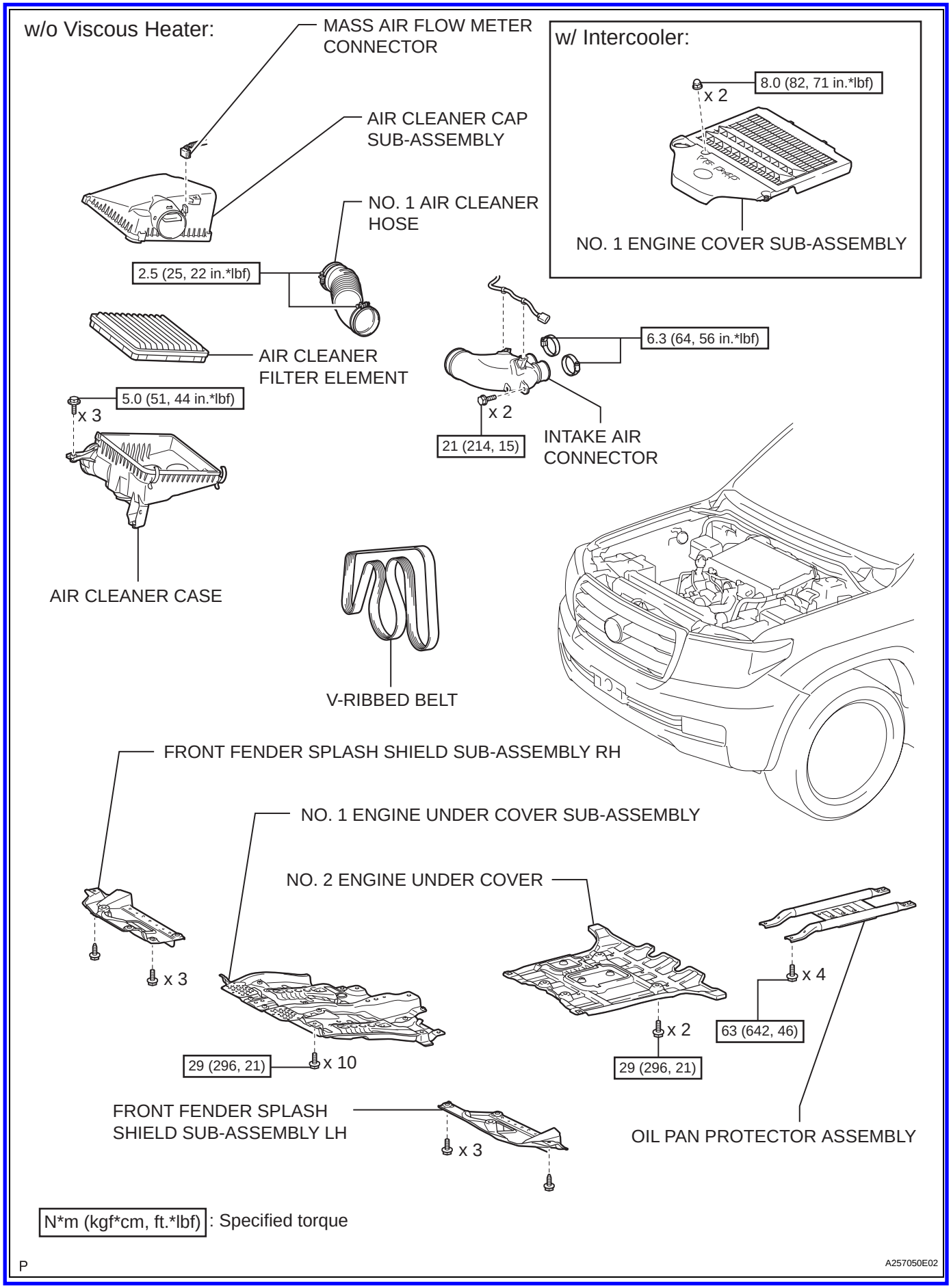
N*m (kgf*cm, ft.*lbf): Specified torque

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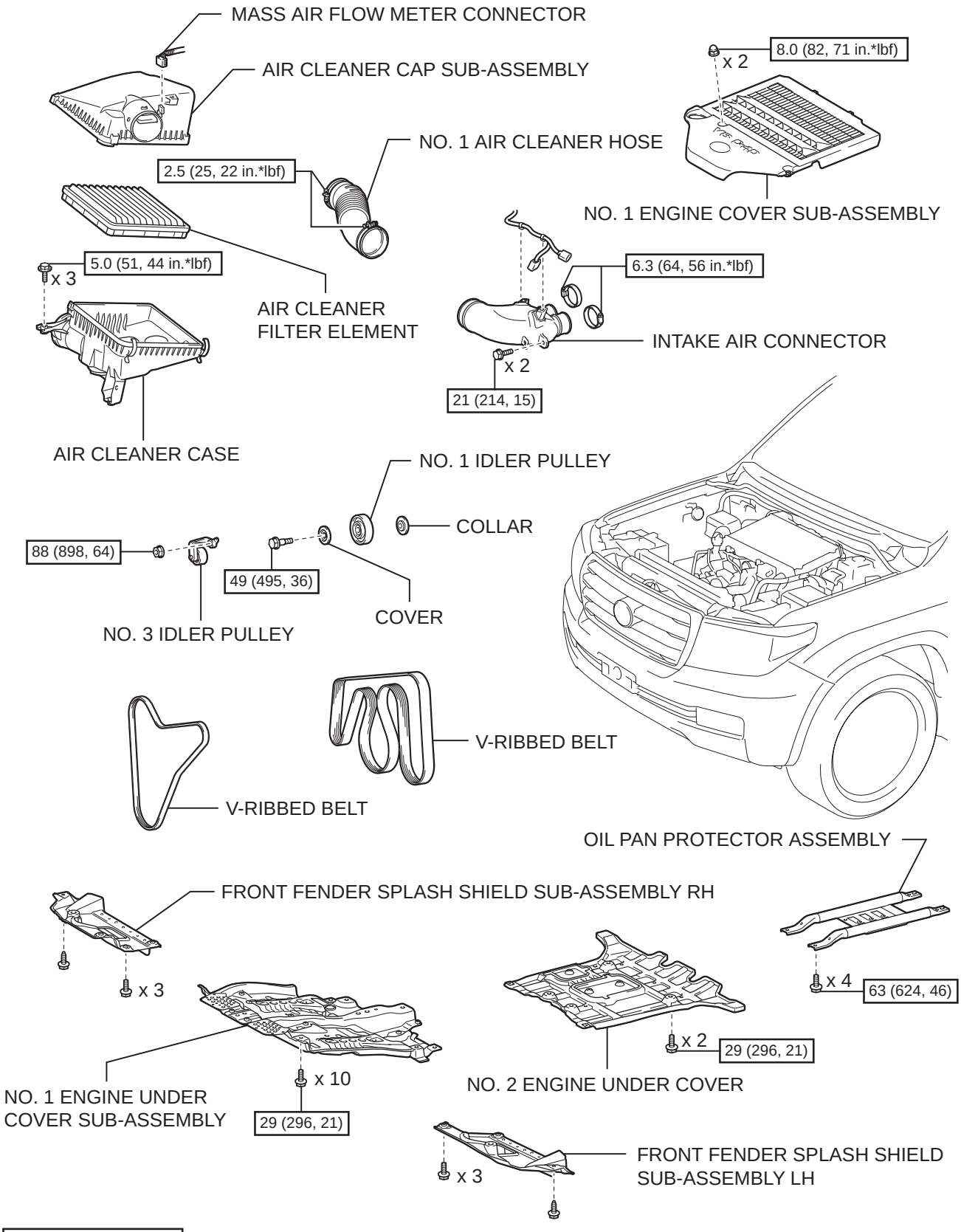
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w/ Viscous Heater:



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

P

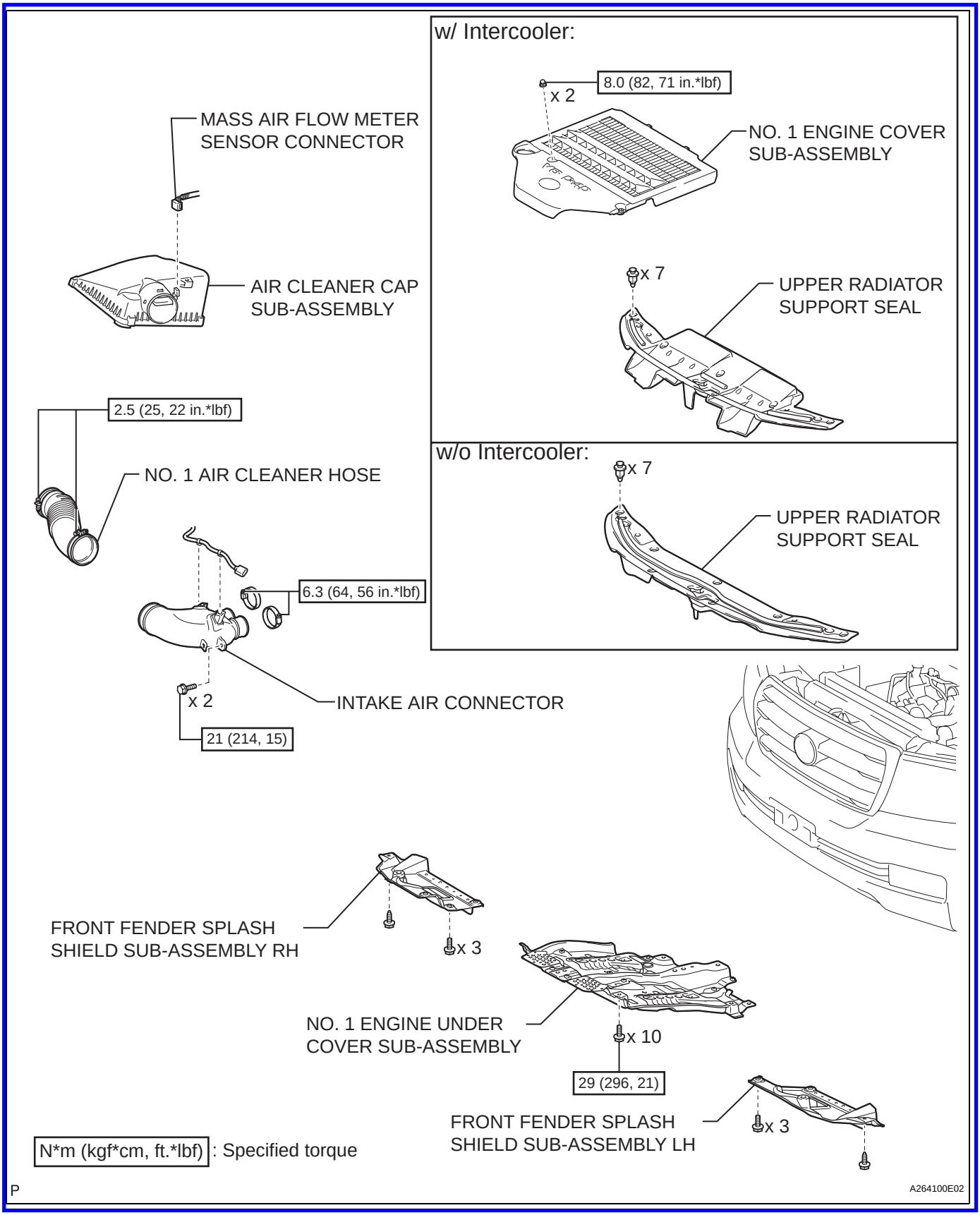
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FUEL INJECTOR (w/o DPF)

[All Corrected]

COMPONENTS



FU

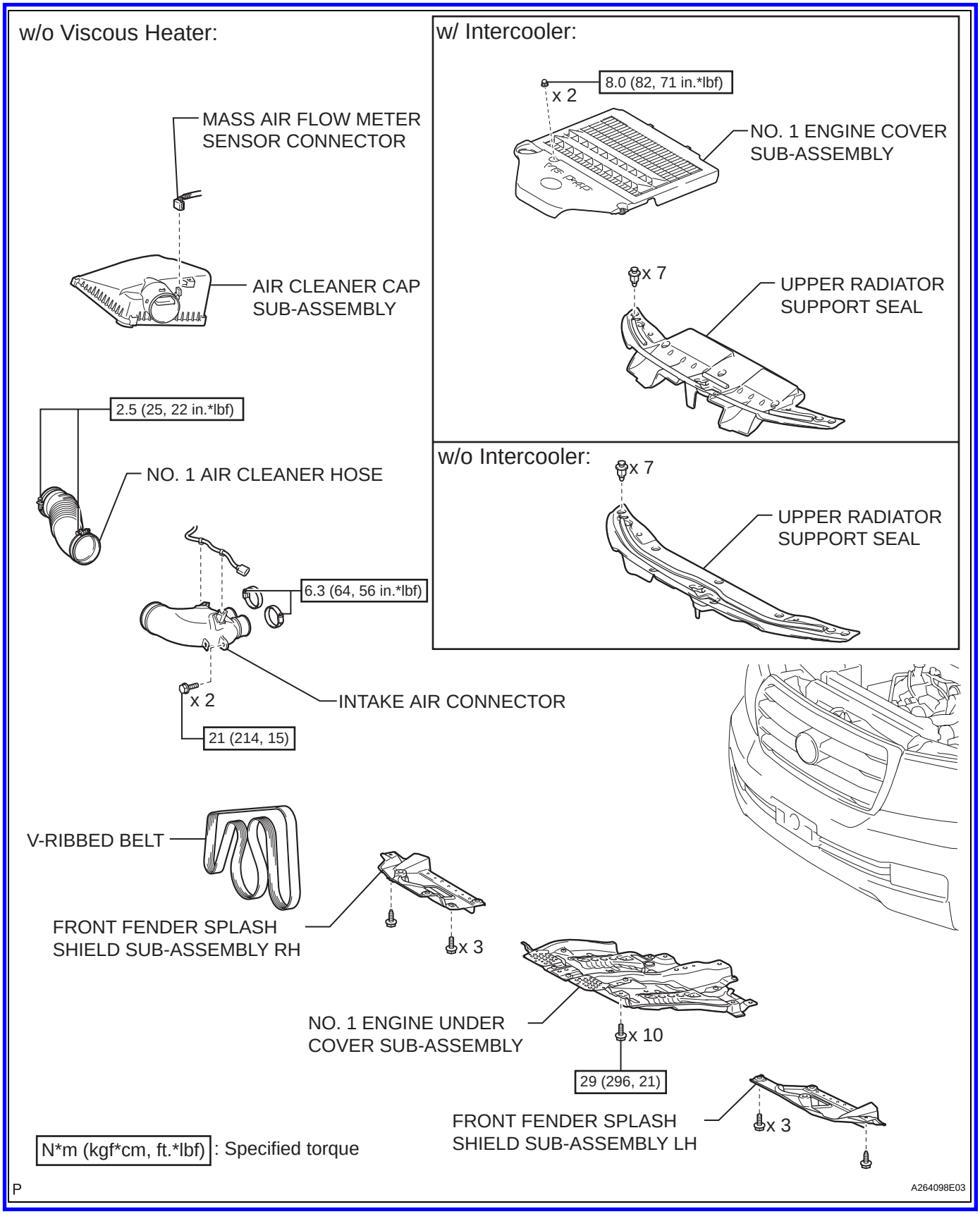
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FUEL SUPPLY PUMP

COMPONENTS

[All Corrected]

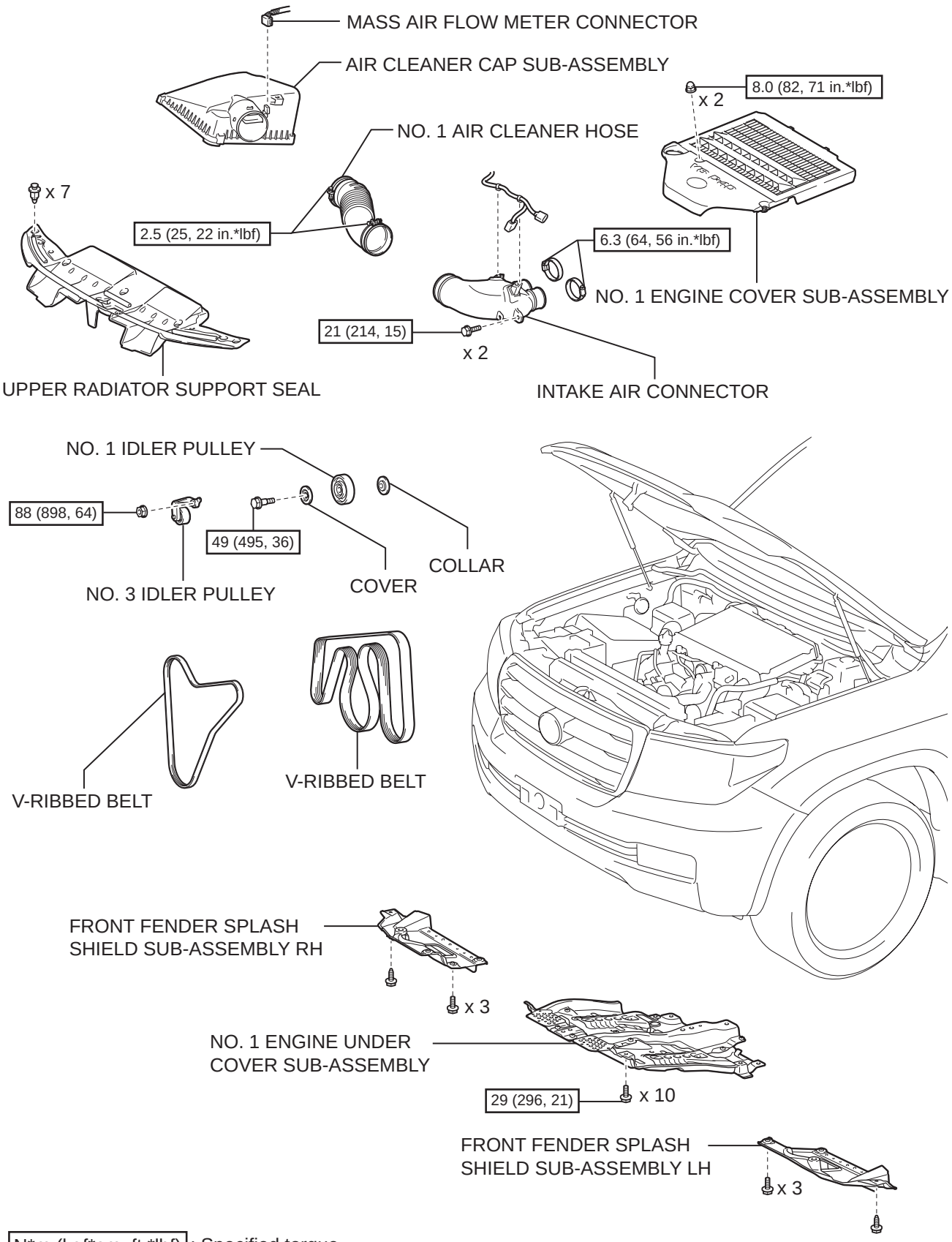
(2011/09-2012/01)



FU

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w/ Viscous Heater:



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

P

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FU

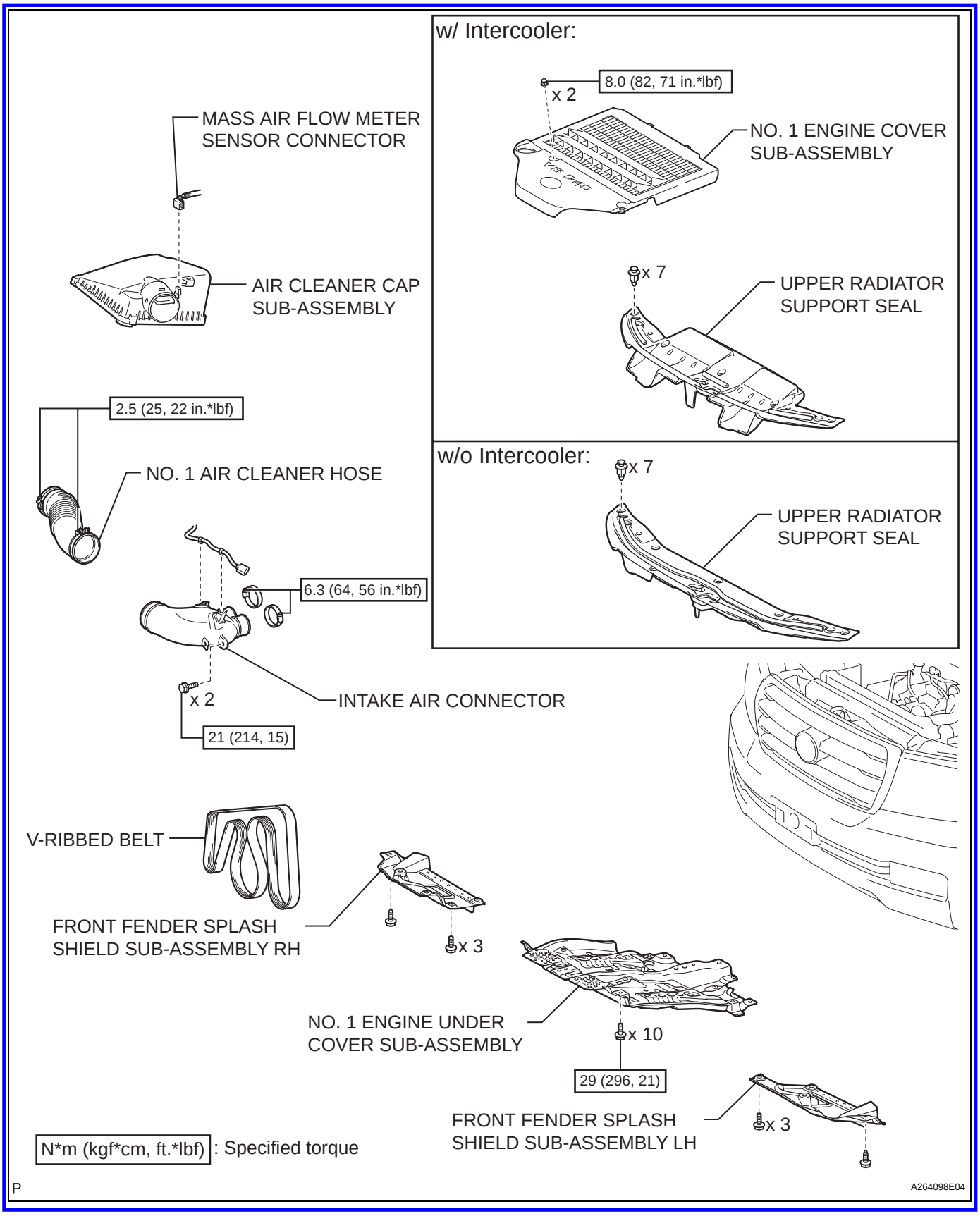
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COMMON RAIL

COMPONENTS

[All Corrected]

(2011/09-2012/01)



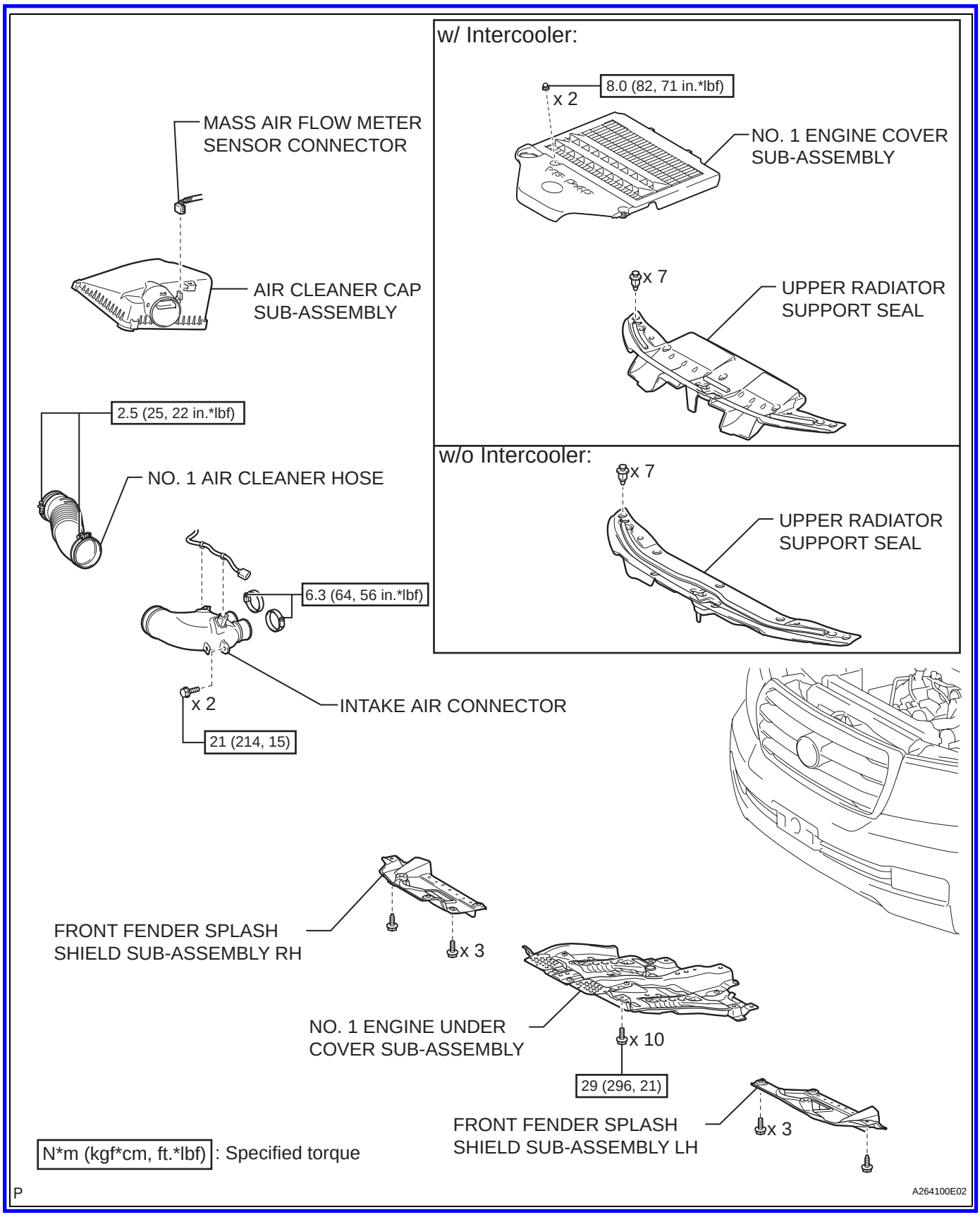
FU

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FUEL COOLER (for Engine Room Side)

[All Corrected]

COMPONENTS



FU

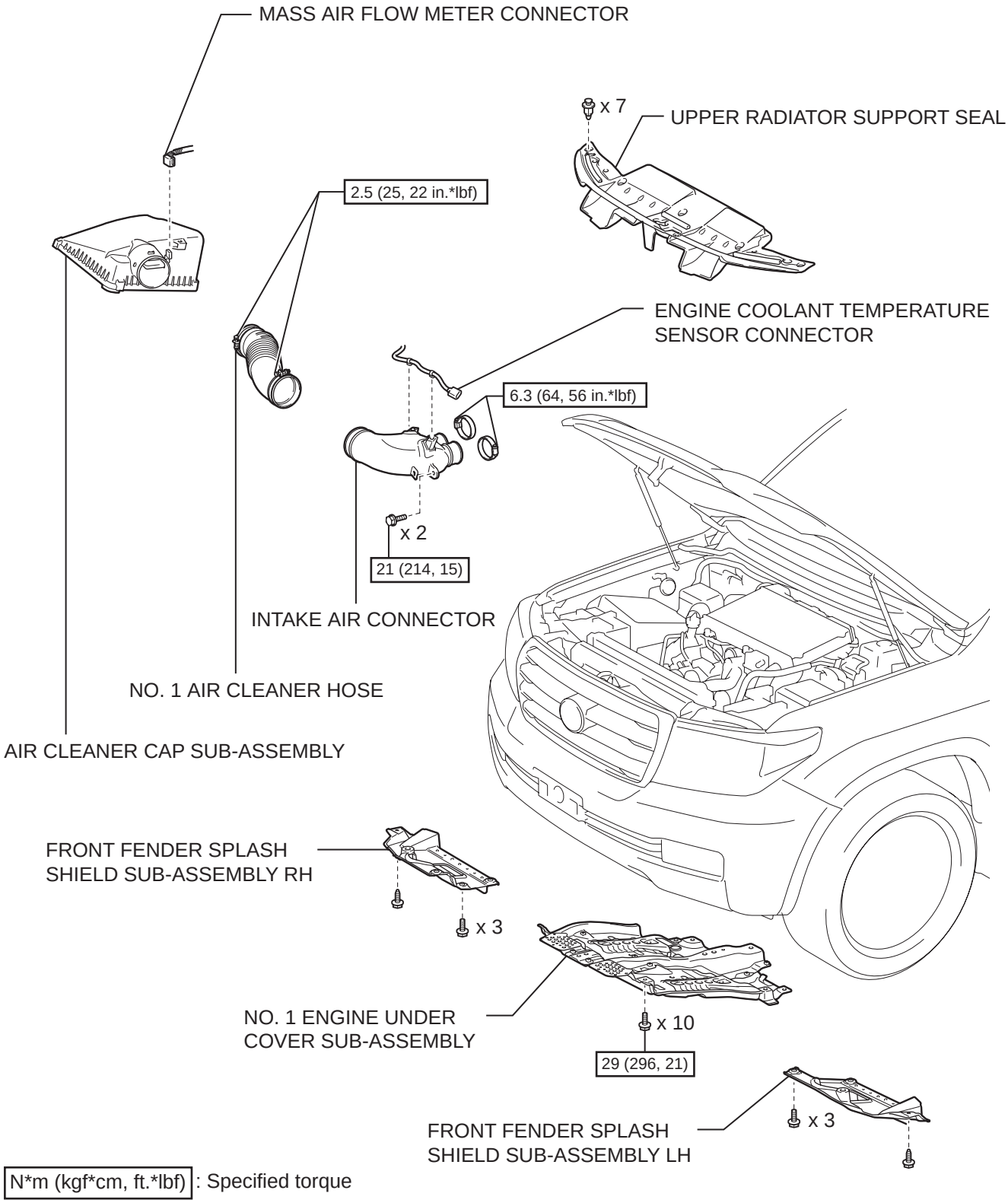
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EGR VALVE

COMPONENTS

[All Corrected]

(2011/09-2012/01)



EC

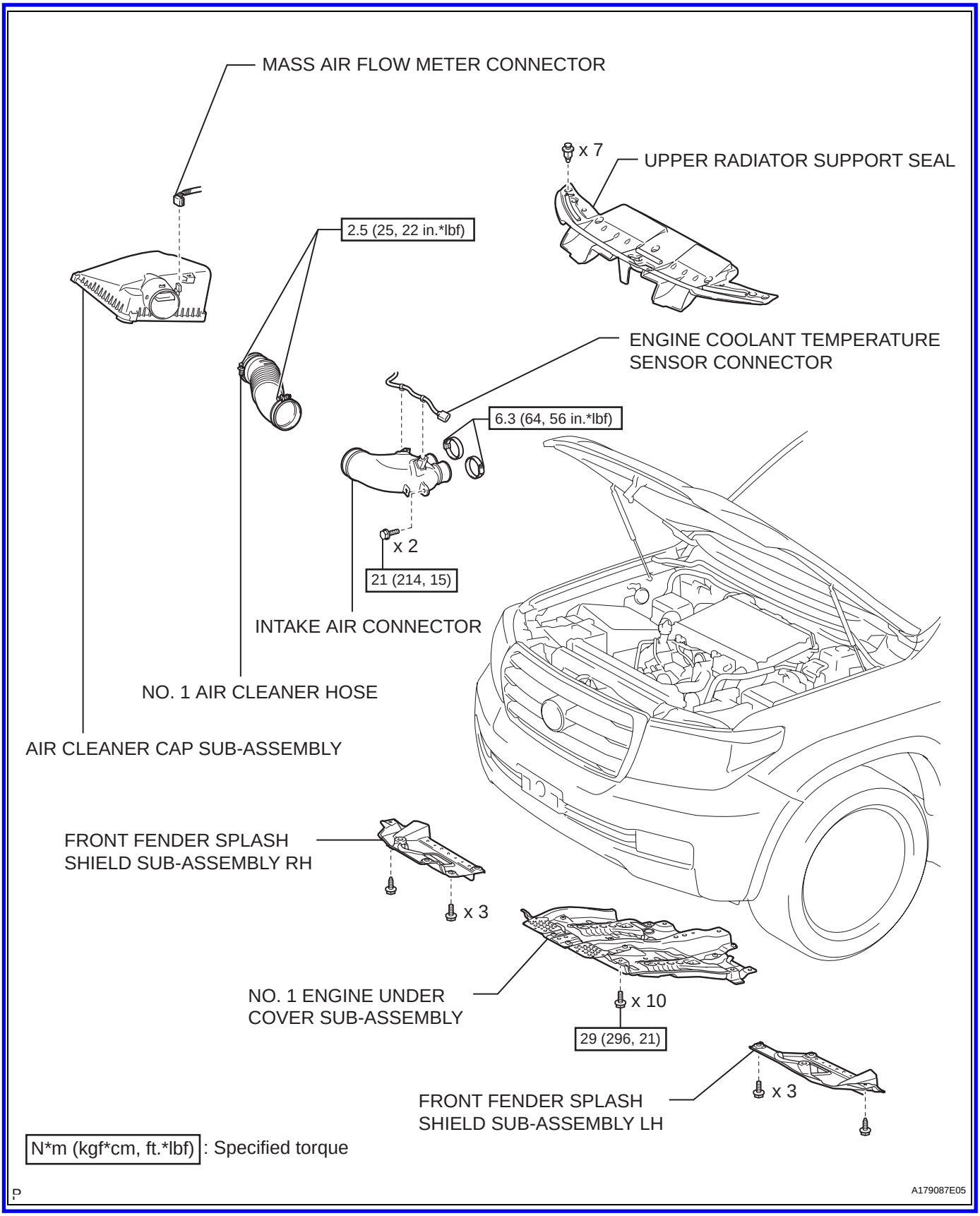
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EGR COOLER

COMPONENTS

[All Corrected]

(2011/09-2012/01)



EC

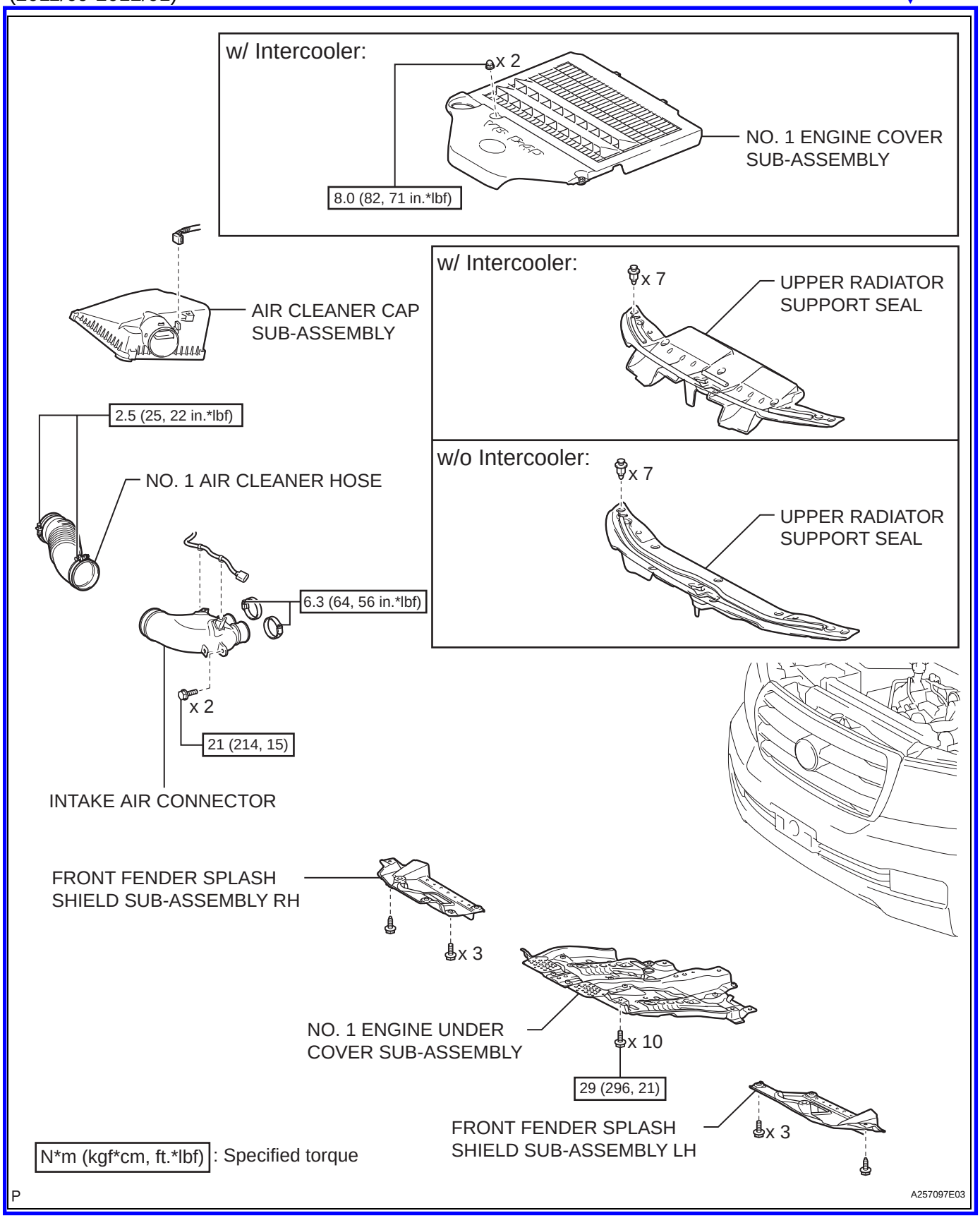
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INTAKE MANIFOLD

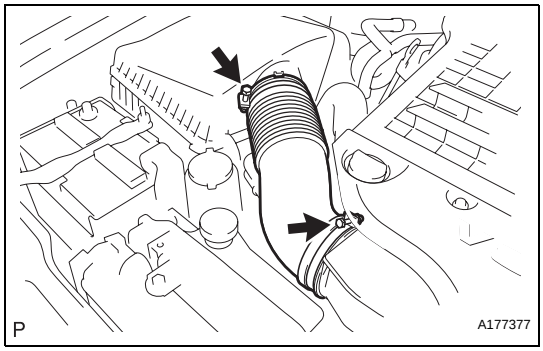
COMPONENTS

[All Corrected]

(2011/09-2012/01)



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(d) Align the protrusion of air cleaner cap and concave portion of air cleaner hose.

(e) Tighten the 2 hose clamps. [Corrected]

Torque: 2.5 N*m (25 kgf*cm, 22 in.*lbf)

40. INSTALL DIESEL THROTTLE BODY ASSEMBLY LH (See page)

41. INSTALL NO. 3 INTERCOOLER SUPPORT BRACKET (See page)

42. INSTALL NO. 1 GAS FILTER (See page)

43. INSTALL TUBE CONNECTOR TO FLEXIBLE HOSE TUBE (for Manual Transmission) (See page)

44. INSTALL AIR TUBE SUB-ASSEMBLY LH (See page)

45. INSTALL CLUTCH HOSE (for Manual Transmission) (See page)

46. INSTALL DIESEL THROTTLE BODY ASSEMBLY RH (See page)

47. INSTALL AIR TUBE SUB-ASSEMBLY RH (See page)

48. INSTALL NO. 2 ENGINE OIL LEVEL DIPSTICK GUIDE

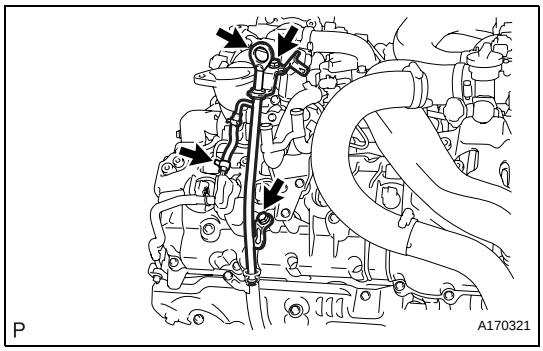
(a) Apply a light coat of engine oil to a new O-ring.

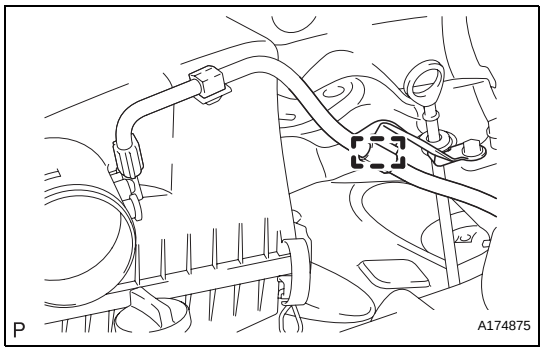
(b) Install the O-ring to the No. 2 engine oil level dipstick guide.

(c) Install the No. 2 engine oil level dipstick guide with the 2 bolts.

Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)

(d) Connect the ventilation hose to the cylinder head cover RH.





(e) Connect the wire harness clamp to the No. 2 engine oil level dipstick guide bracket.

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(b) Connect the mass air flow meter connector and attach the wire harness clamp to the air cleaner cap.
(c) Attach the wire harness clamp.
(d) Align the protrusion of the air cleaner cap and the concave portion of the air cleaner hose.
(e) Tighten the 2 hose clamps.

[Corrected] **Torque: 2.5 N*m (25 kgf*cm, 22 in.*lbf)**

56. INSTALL DIESEL THROTTLE BODY ASSEMBLY LH (See page)

57. INSTALL NO. 3 INTERCOOLER SUPPORT BRACKET (See page)

58. INSTALL NO. 1 GAS FILTER (See page)

59. INSTALL TUBE CONNECTOR TO FLEXIBLE HOSE TUBE (for Manual Transmission) (See page)

60. INSTALL AIR TUBE SUB-ASSEMBLY LH (See page)

61. INSTALL CLUTCH HOSE (for Manual Transmission) (See page)

62. INSTALL DIESEL THROTTLE BODY ASSEMBLY RH (See page)

63. INSTALL AIR TUBE SUB-ASSEMBLY RH (See page)

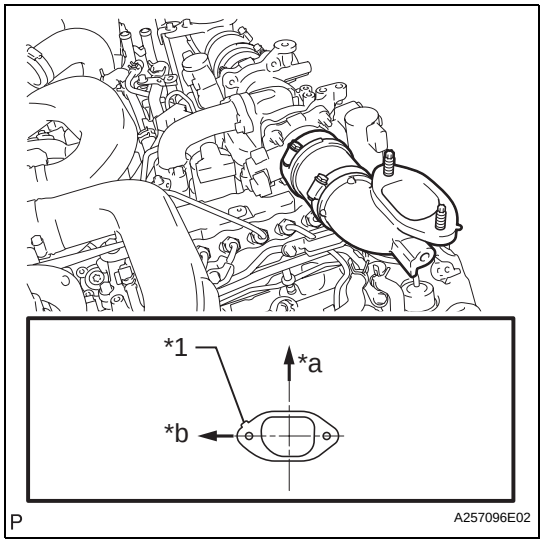
64. INSTALL NO. 2 ENGINE OIL LEVEL DIPSTICK GUIDE

(a) Apply a light coat of engine oil to a new O-ring.
(b) Install the O-ring to the No. 2 engine oil level dipstick guide.
(c) Install the No. 2 engine oil level dipstick guide with the 2 bolts.
Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)
(d) Connect the ventilation hose to the cylinder head cover RH.
(e) Connect the wire harness clamp to the No. 2 engine oil level dipstick guide bracket.

65. CONNECT WATER HOSE SUB-ASSEMBLY

66. INSTALL NO. 2 COOL AIR INLET (w/o Intercooler)

(a) Install a new gasket to the air tube LH.



Text in Illustration

*1	Protrusion
*a	Front
*b	LH Side

HINT:
Install the gasket with the protrusion facing as shown in the illustration.

(b) Install the No. 2 cool air inlet with the 3 nuts and bolt.
Torque: 21 N*m (214 kgf*cm, 15 ft.*lbf)

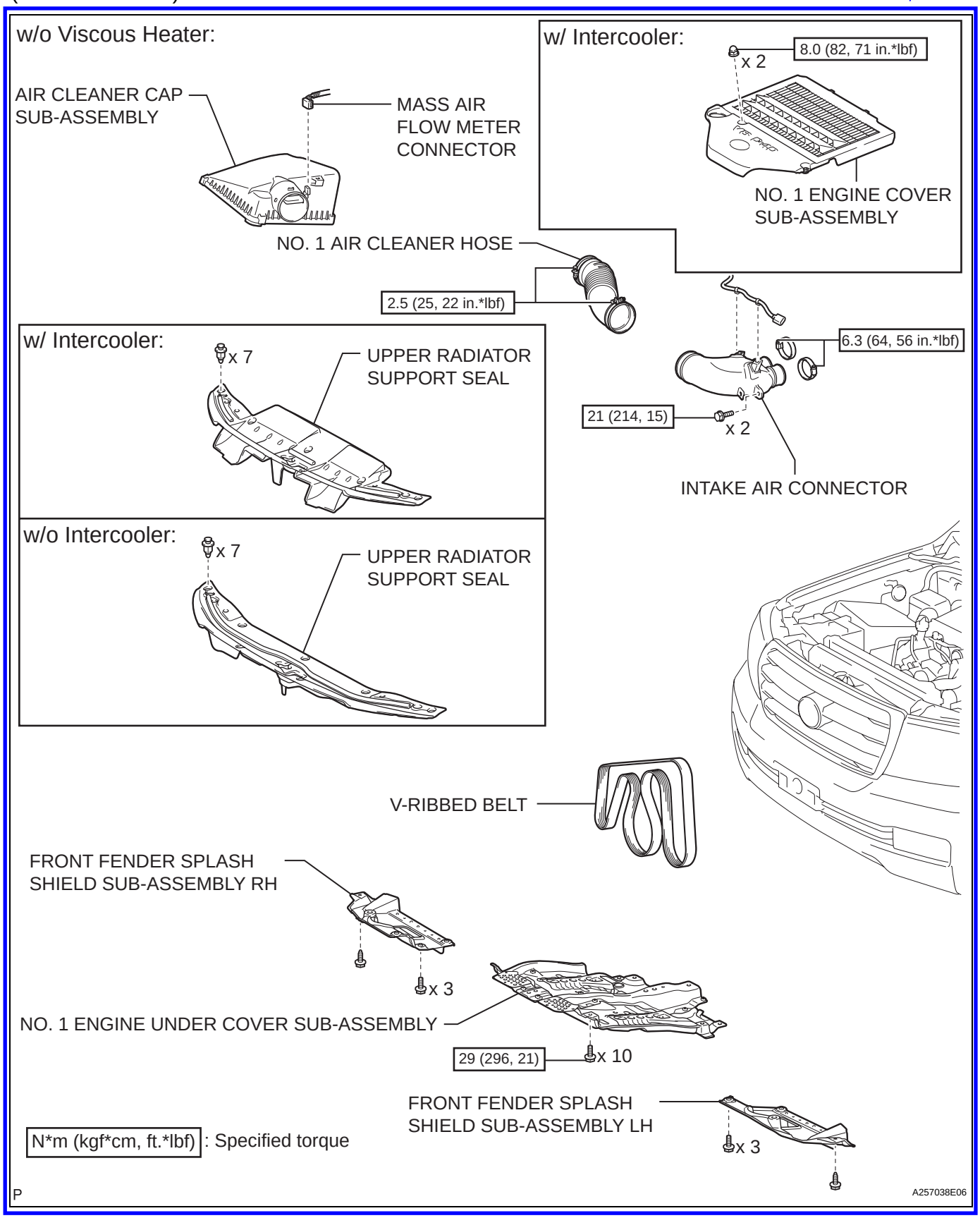
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WATER PUMP

COMPONENTS

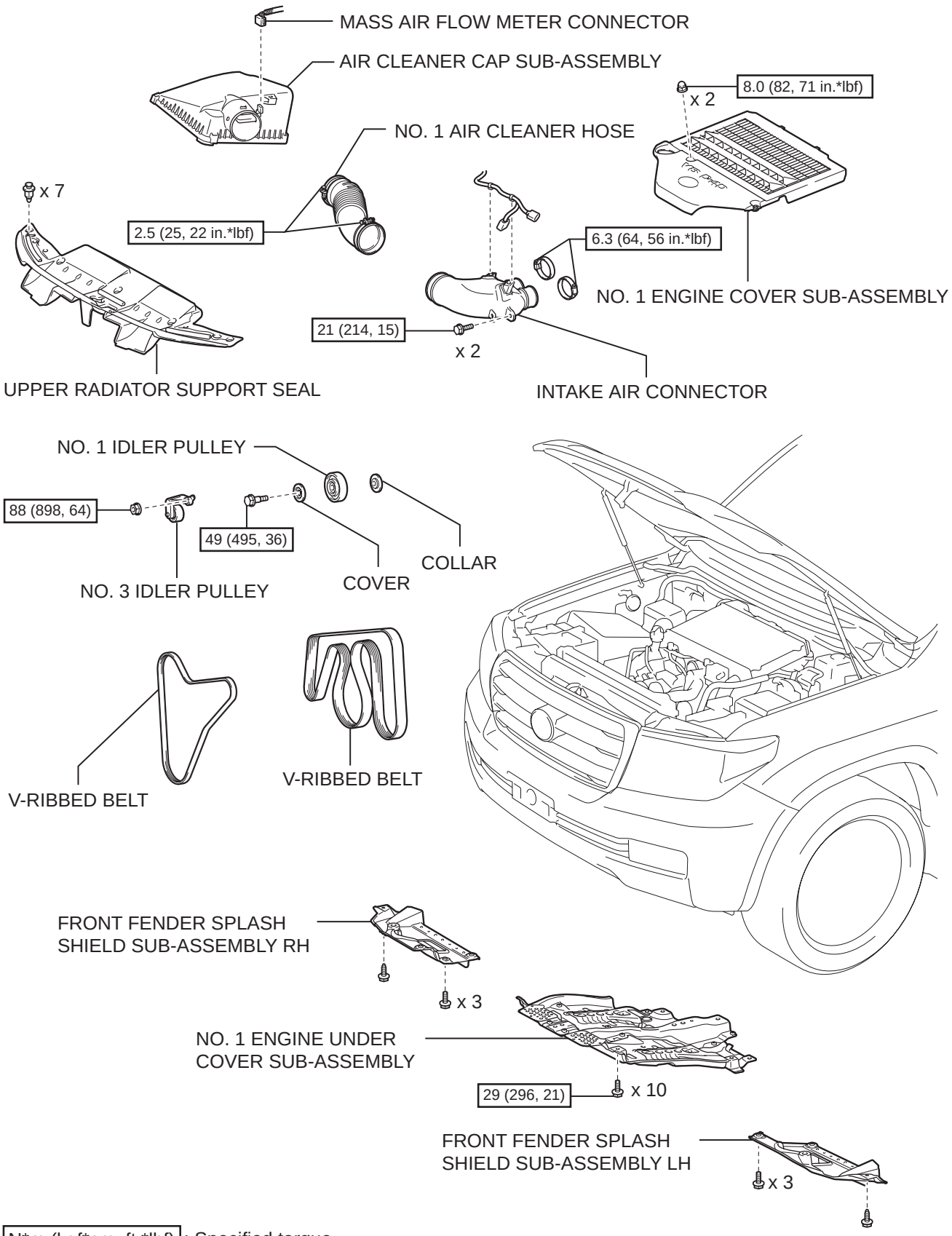
[All Corrected]

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w/ Viscous Heater:



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

P

A174845E16

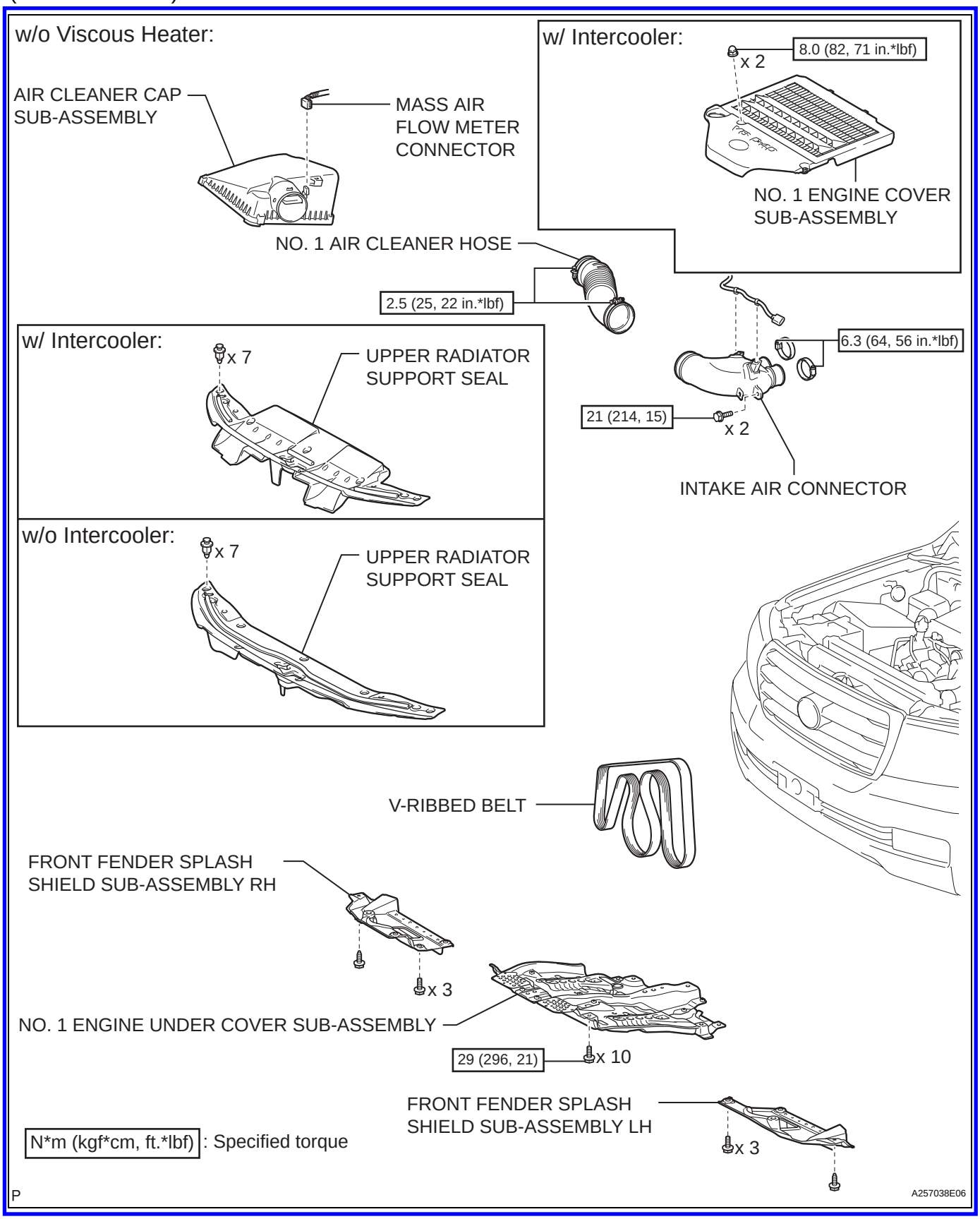
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THERMOSTAT

COMPONENTS

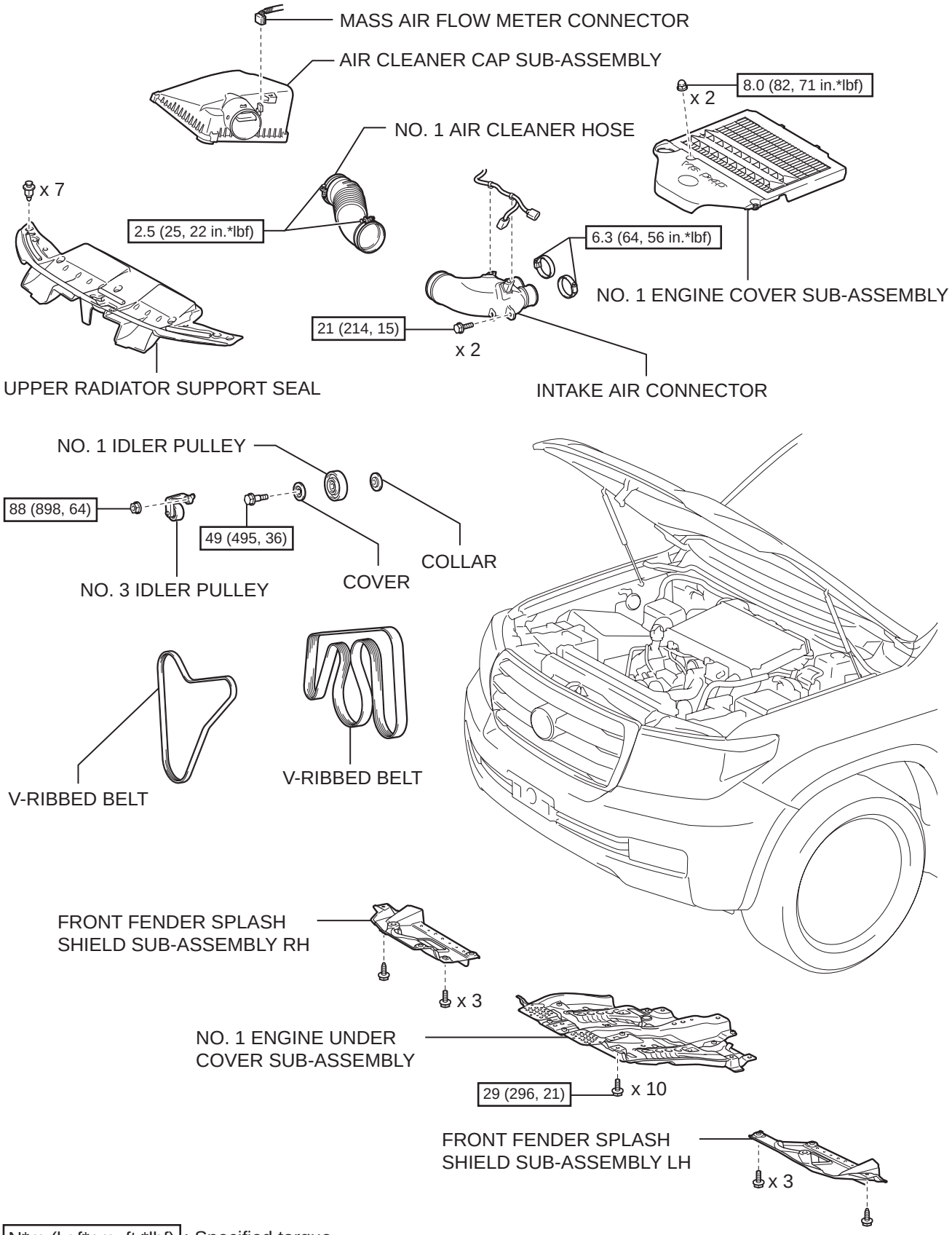
[All Corrected]

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w/ Viscous Heater:



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

P

A174845E16

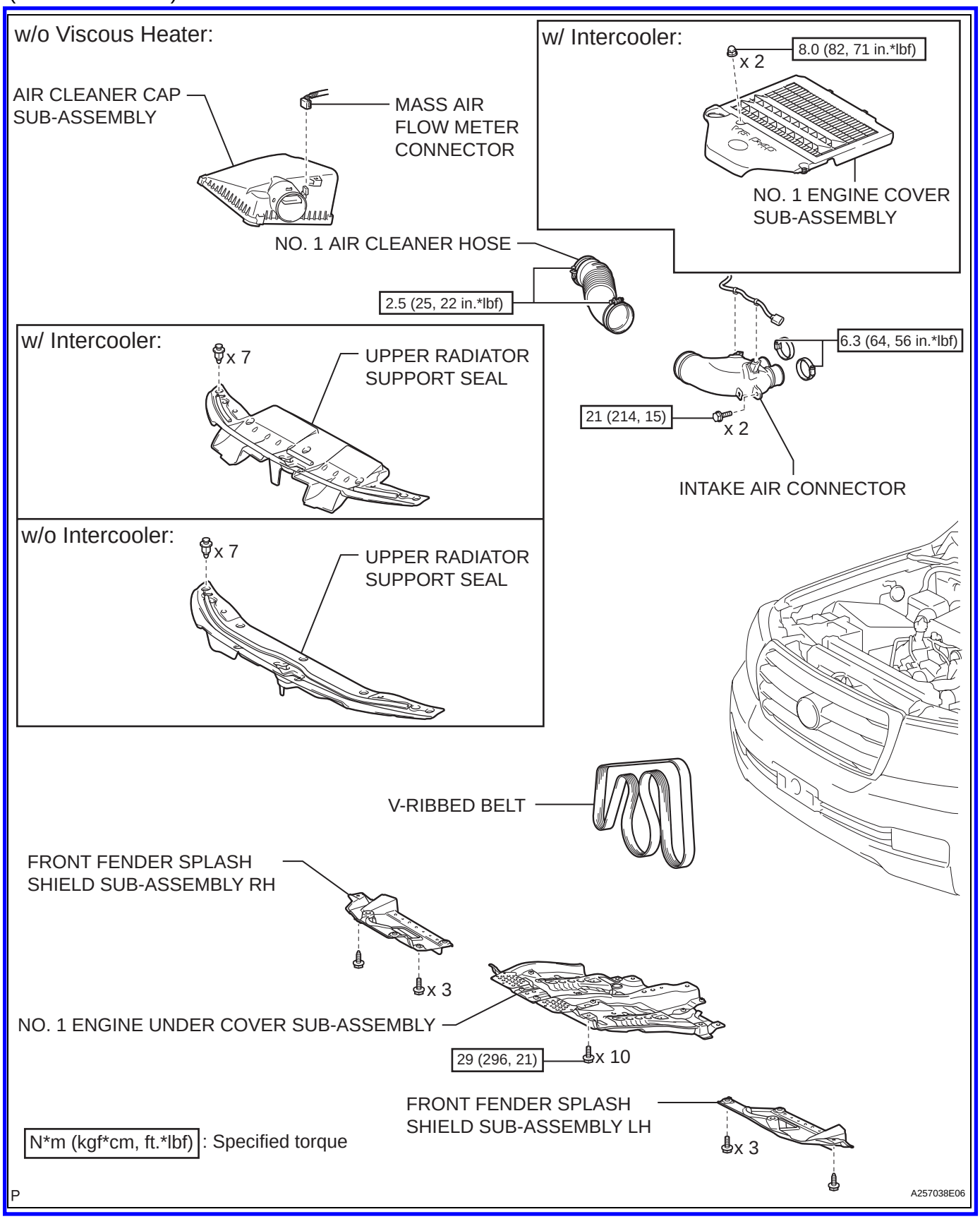
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RADIATOR

COMPONENTS

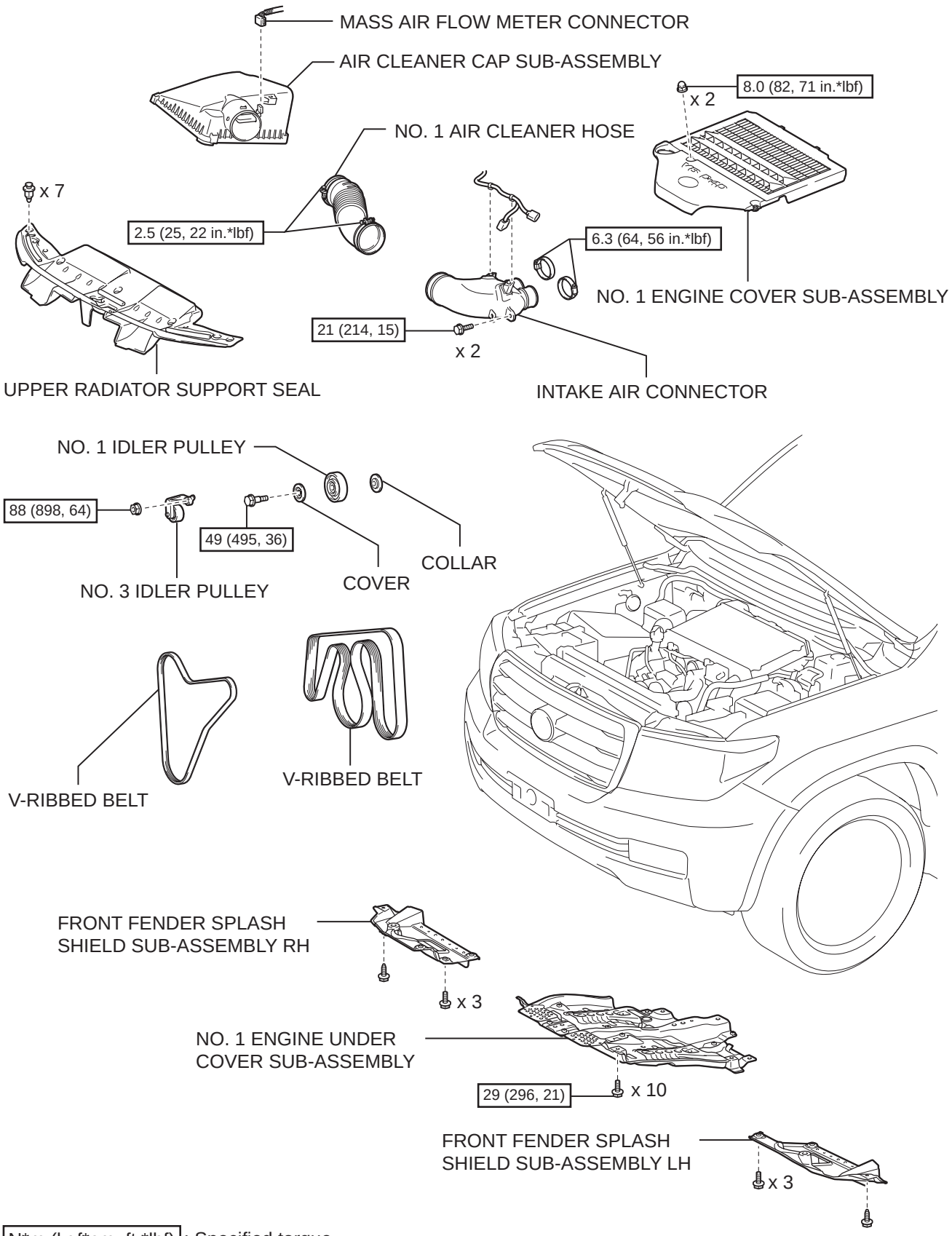
[All Corrected]

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w/ Viscous Heater:

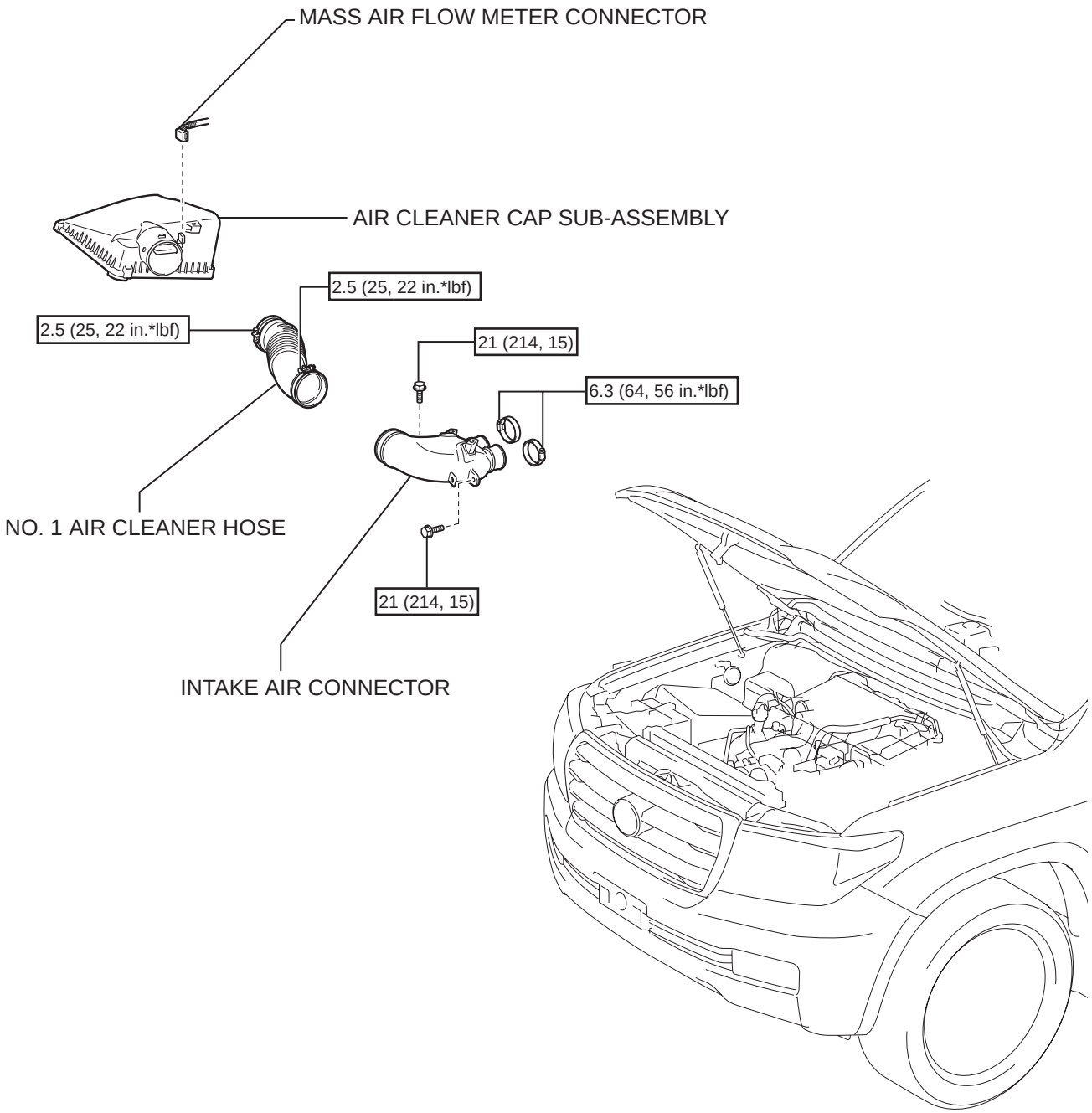


N*m (kgf*cm, ft.*lbf) : Specified torque

P

A174845E16

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

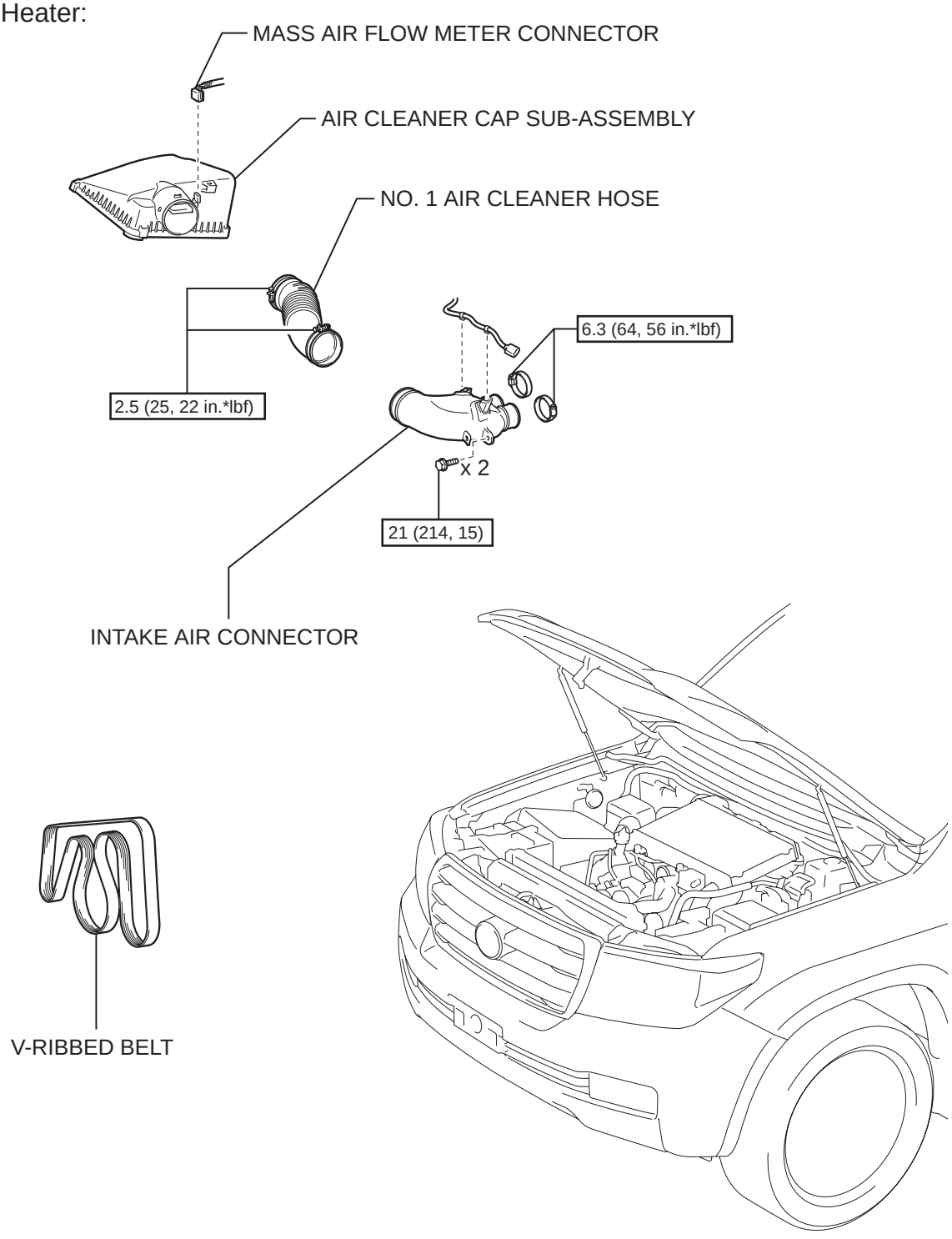
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A179956E02

ST

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w/o Viscous Heater:



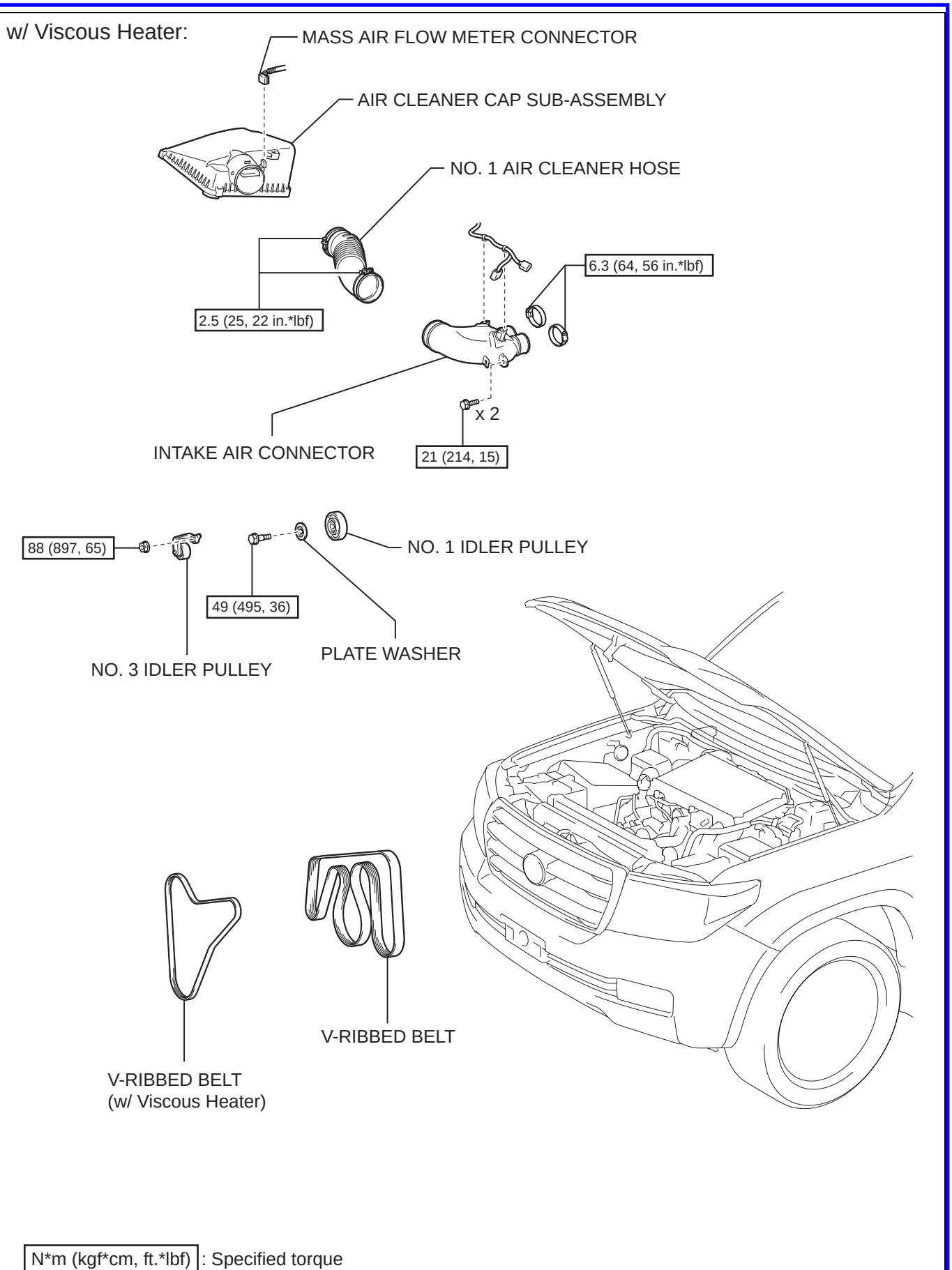
N*m (kgf*cm, ft.*lbf) : Specified torque

P

A182887E03

BH

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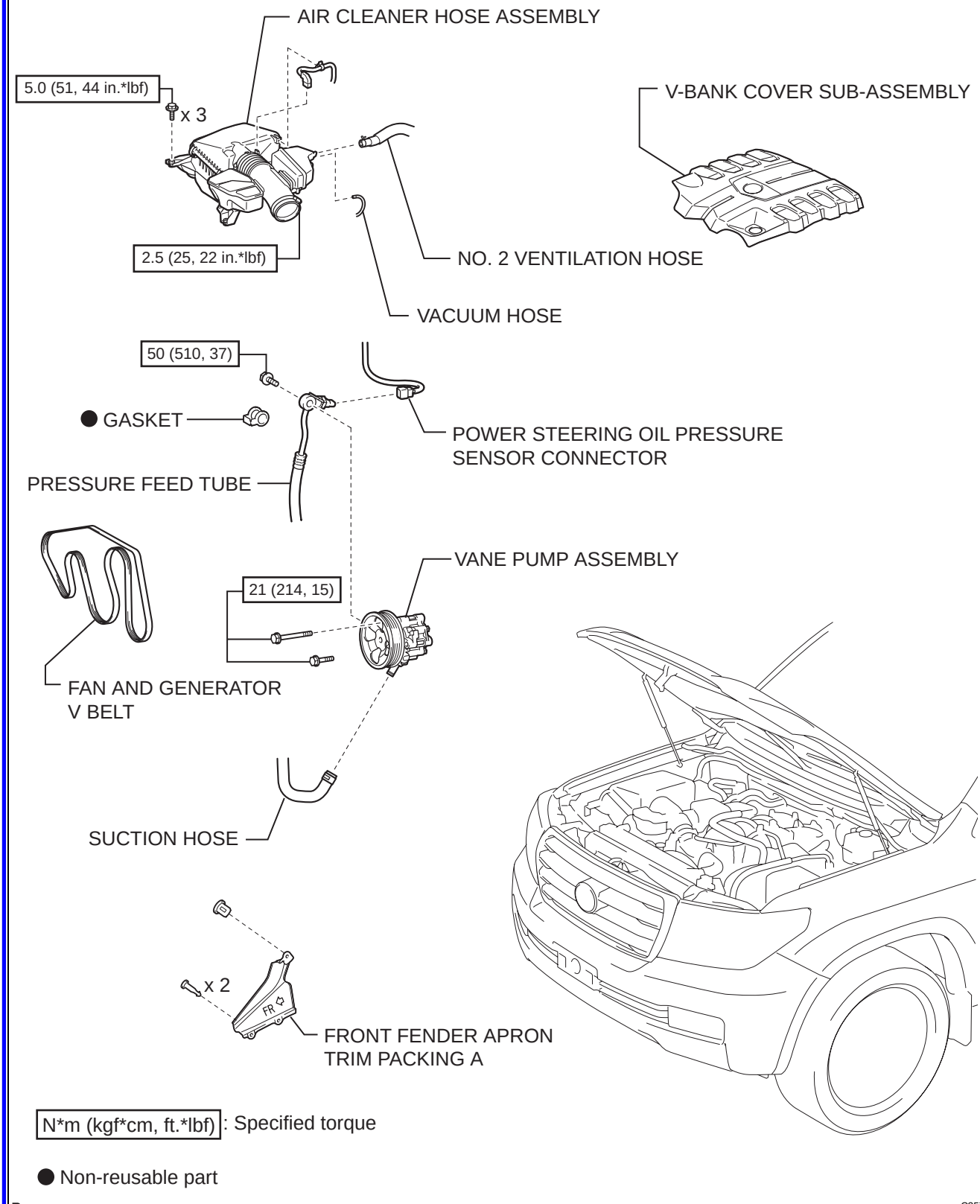
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VANE PUMP (for 1UR-FE)

[All Corrected]

COMPONENTS



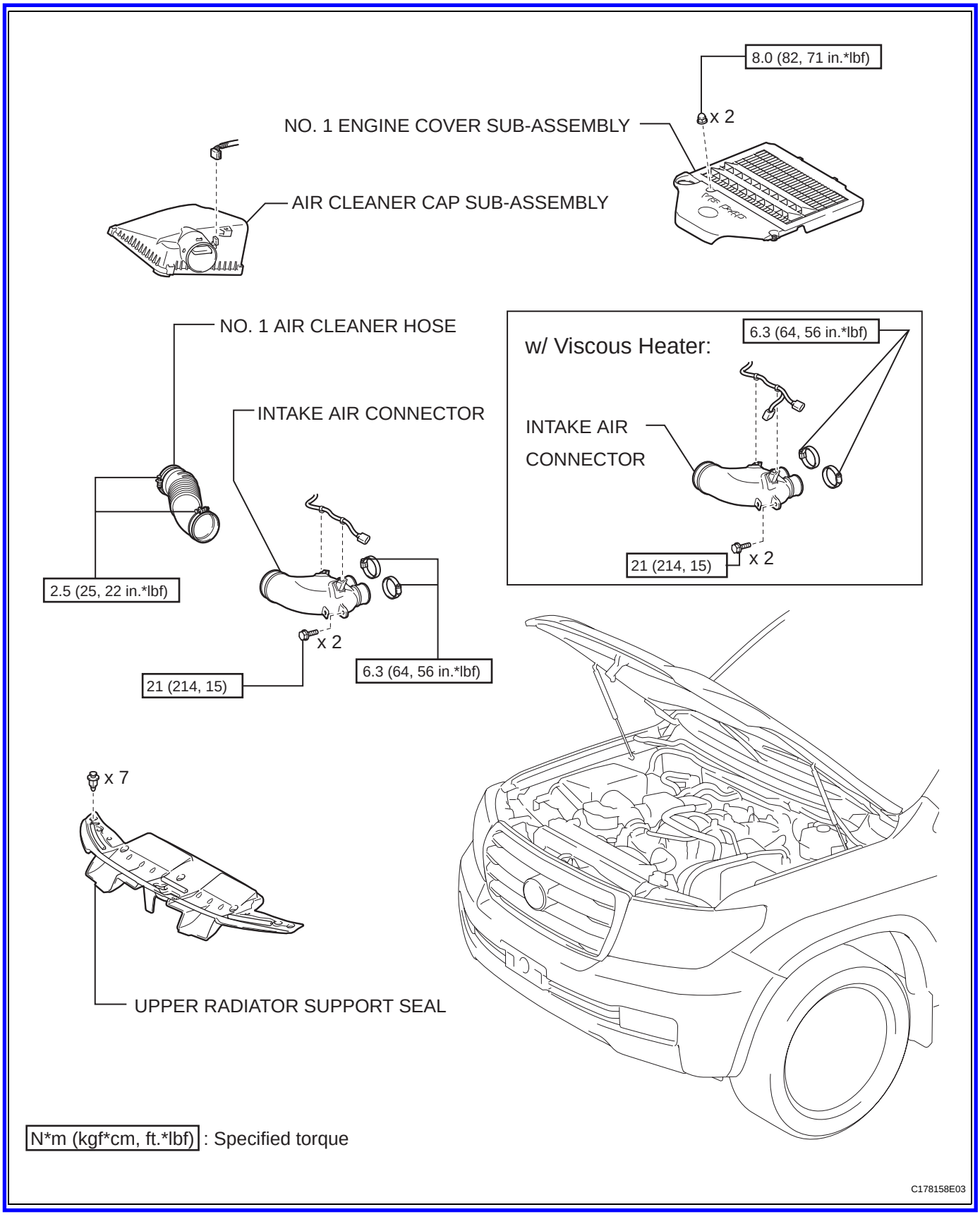
PA

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VANE PUMP (for 1VD-FTV with DPF)

[All Corrected]

COMPONENTS



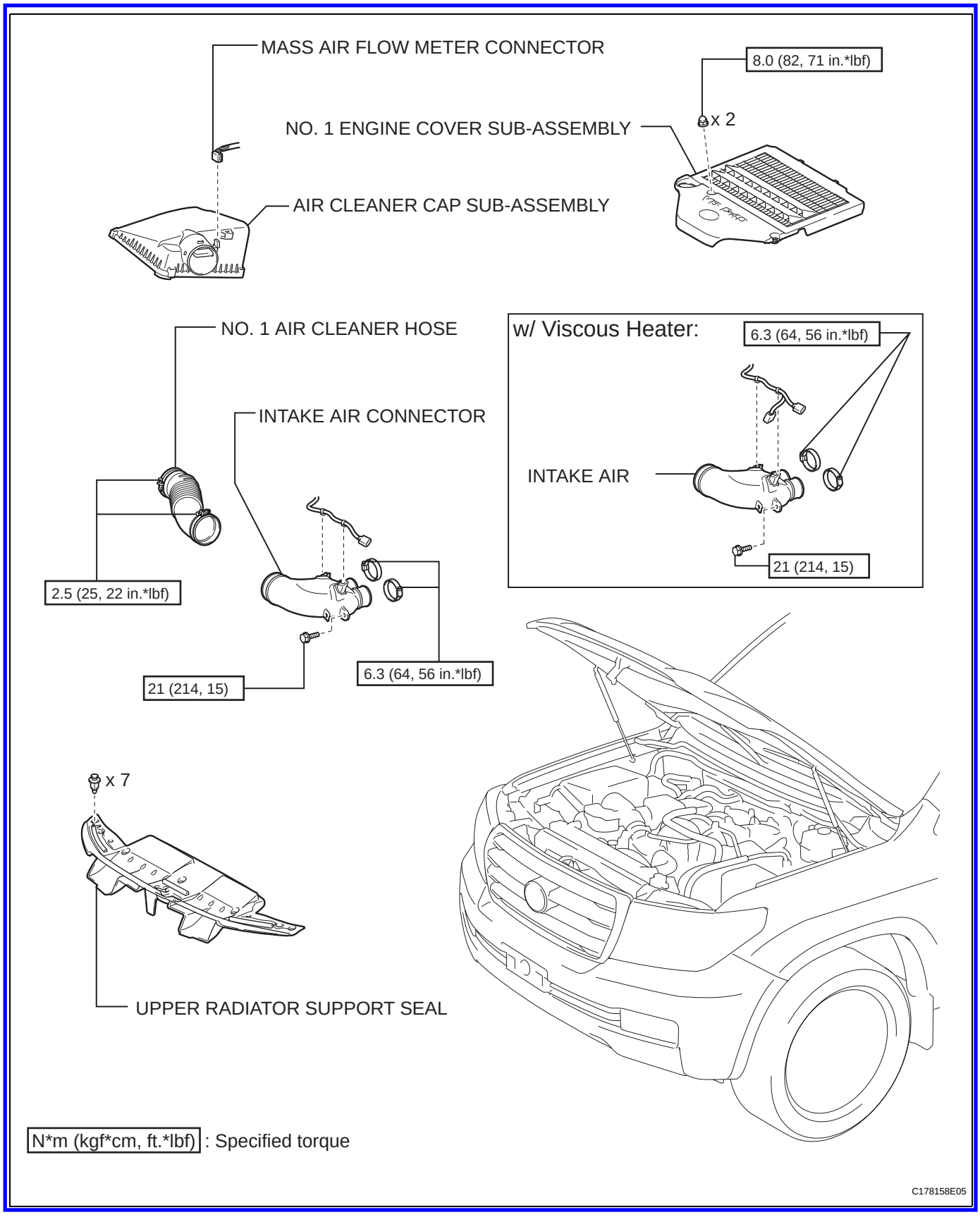
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VANE PUMP (for 1VD-FTV without DPF)

[All Corrected]

COMPONENTS



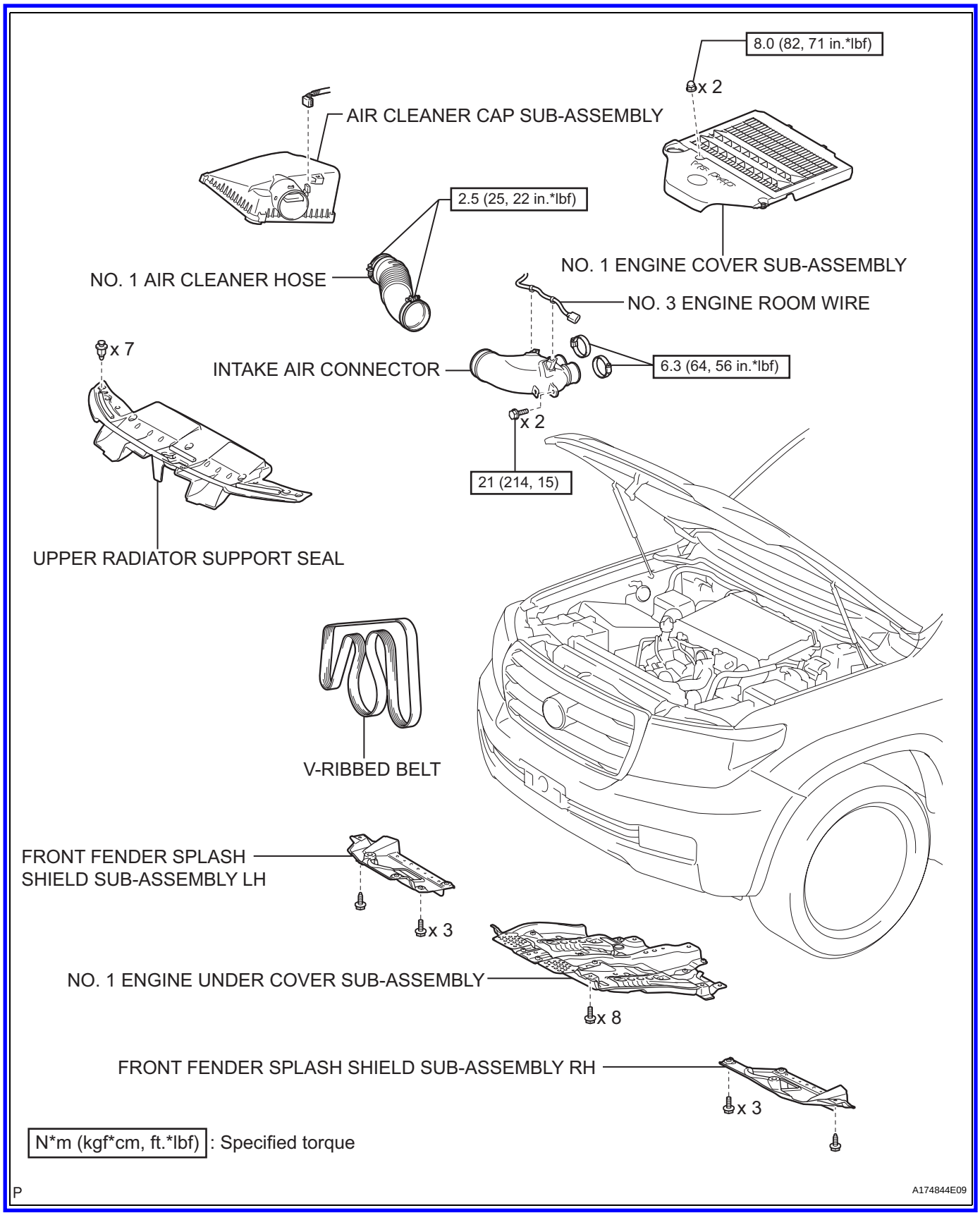
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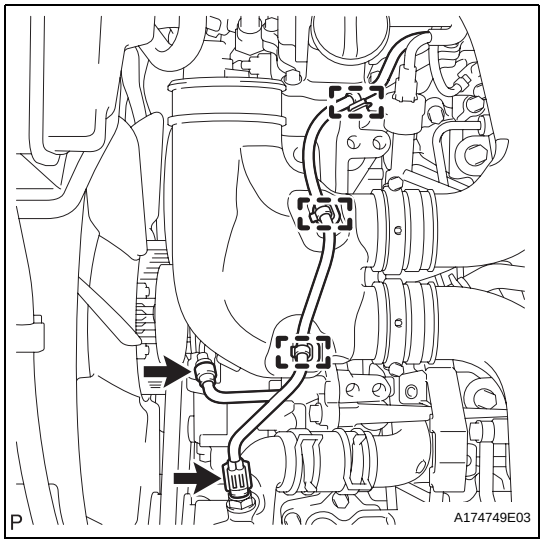
HEATER WATER PUMP (w/ Viscous Heater)

[All Corrected]

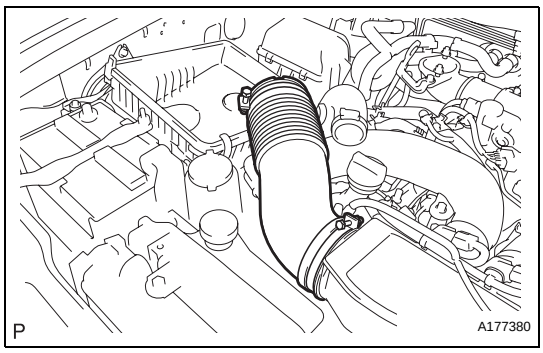
COMPONENTS



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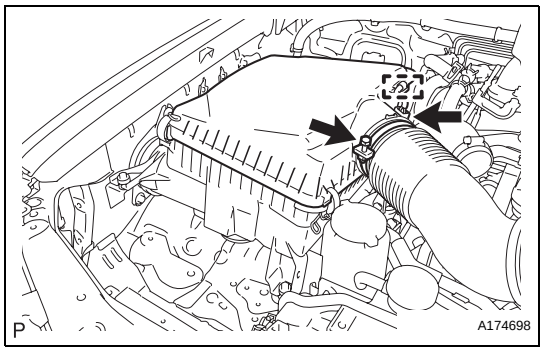


(d) Attach the 3 wire harness clamps.
(e) Connect the 2 connectors to the water temperature sensor and viscous heater.



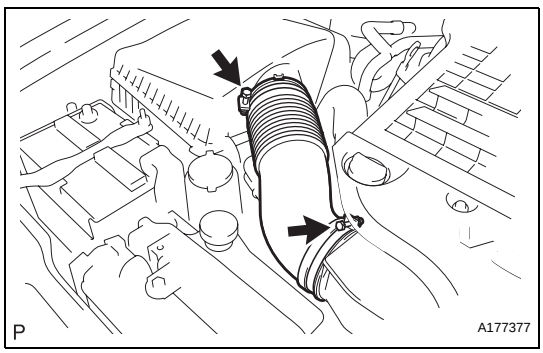
15. TEMPORARILY INSTALL NO. 1 AIR CLEANER HOSE

(a) Temporarily install the air cleaner hose to the intake air connector.



16. INSTALL AIR CLEANER CAP SUB-ASSEMBLY

(a) Align the protrusion of the air cleaner cap and concave portion of the air cleaner hose.



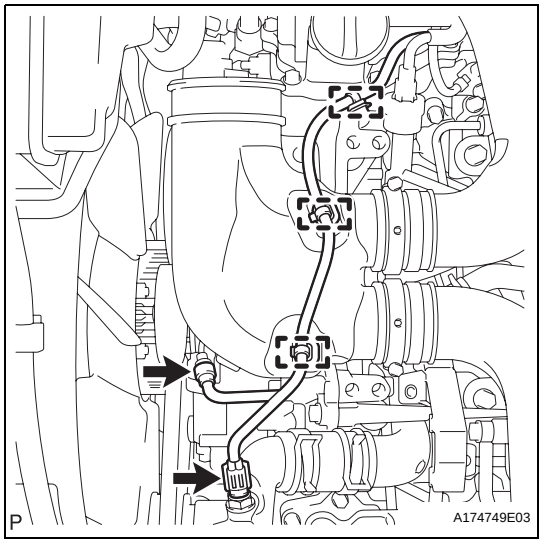
(b) Connect the air cleaner cap to the air cleaner hose, and install the air cleaner cap with the 3 clamps.
(c) Tighten the 2 hose clamps and connect the connector.

Torque: 2.5 N*m (25 kgf*cm, 22 in.*lbf)

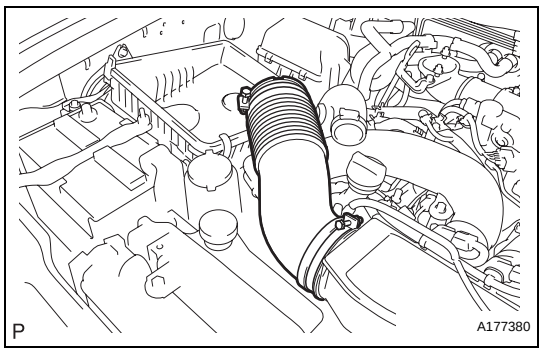
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AC

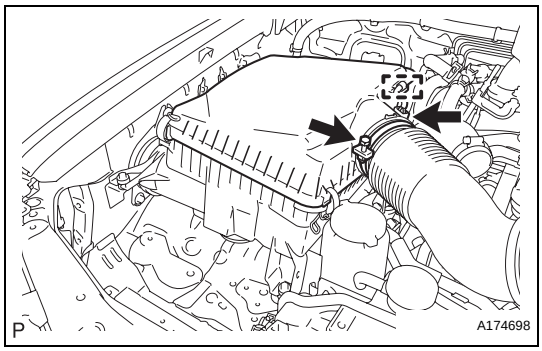


(d) Attach the 3 wire harness clamps.
(e) Connect the 2 connectors to the water temperature sensor and viscous heater.



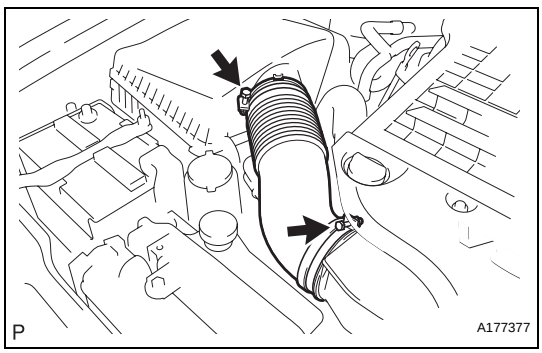
15. TEMPORARILY INSTALL NO. 1 AIR CLEANER HOSE

(a) Temporarily install the air cleaner hose to the intake air connector.



16. INSTALL AIR CLEANER CAP SUB-ASSEMBLY

(a) Align the protrusion of the air cleaner cap and concave portion of the air cleaner hose.



(b) Connect the air cleaner cap to the air cleaner hose, and install the air cleaner cap with the 3 clamps.
(c) Tighten the 2 hose clamps and connect the connector.

Torque: 2.5 N*m (25 kgf*cm, 22 in.*lbf)

[Corrected]

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