

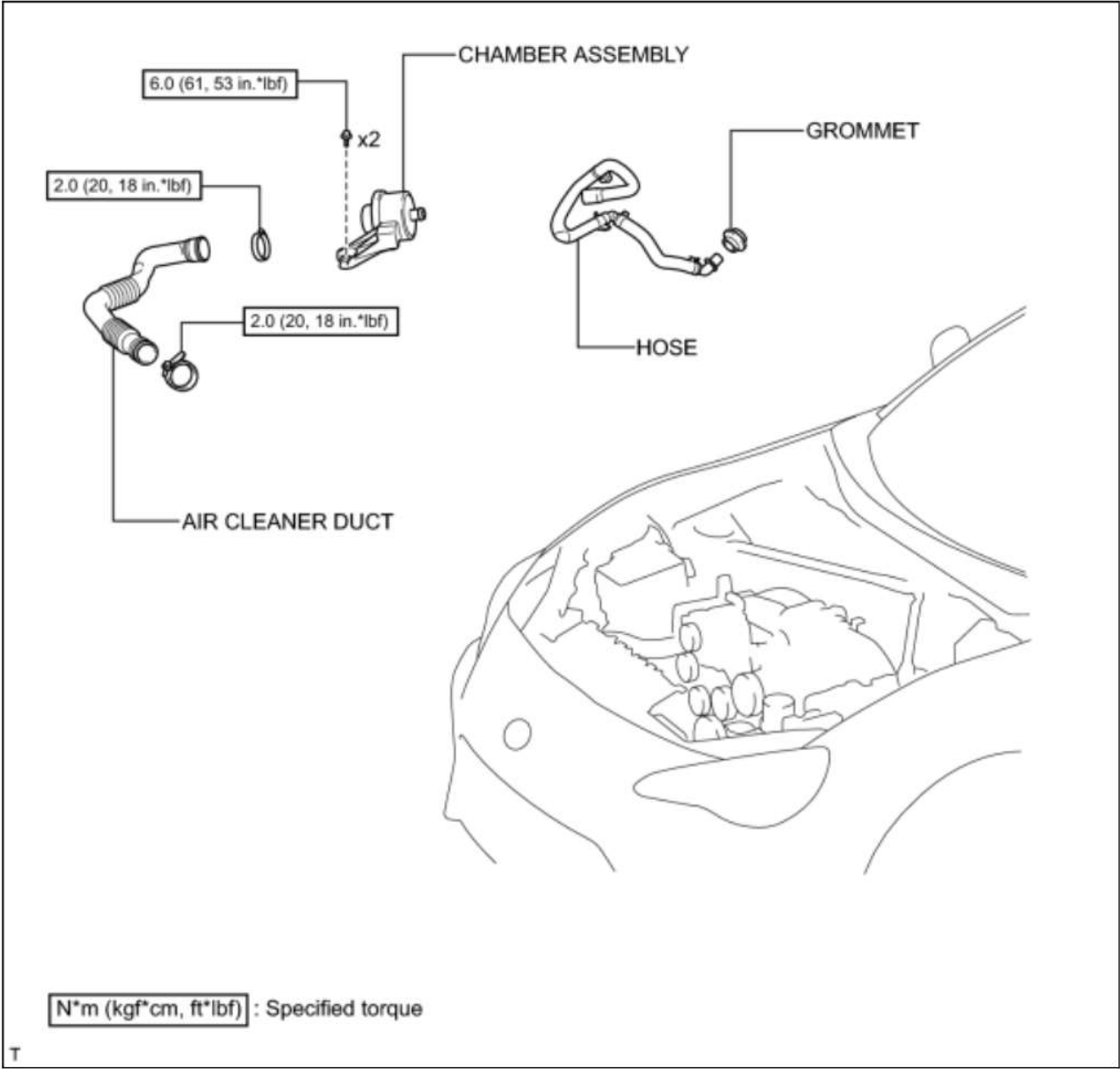
2/5/2014

TIS - Scion 2013 FR-S Repair Manual (RM20S0U)

Last Modified: 4-14-2014	6.6 K	Doc ID: RM000003VQK009X
Model Year: 2013	Model: FR-S	Prod Date Range: [03/2012 -]
Title: FA20 INTAKE / EXHAUST: CHAMBER: COMPONENTS; 2013 MY FR-S [03/2012 -]		

COMPONENTS

ILLUSTRATION



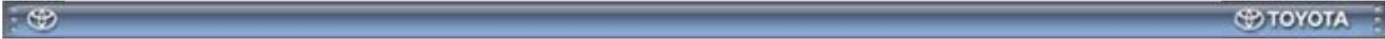
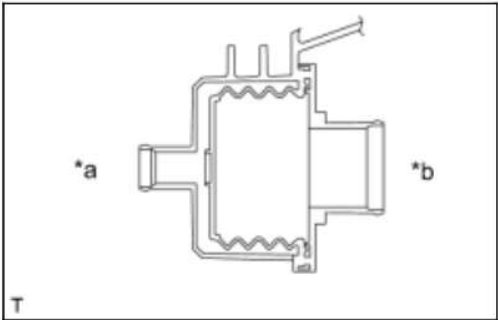
Last Modified: 4-14-2014	6.6 G	Doc ID: RM000001QE000JX
Model Year: 2013	Model: FR-S	Prod Date Range: [03/2012 -]
Title: FA20 INTAKE / EXHAUST: CHAMBER: INSPECTION; 2013 MY FR-S [03/2012 -]		

INSPECTION

1. INSPECT CHAMBER ASSEMBLY

- (a) Check operation of the chamber assembly.
- (1) Blow air into exhaust side. Check that air does not come out of intake side.

*a	Exhaust Side
*b	Intake Side



2/5/2014	TIS - Scion 2013 FR-S Repair Manual (RM20S0U)	
Last Modified: 4-14-2014	6.6 A	Doc ID: RM000001QDX00RX
Model Year: 2013	Model: FR-S	Prod Date Range: [03/2012 -]
Title: FA20 INTAKE / EXHAUST: CHAMBER: INSTALLATION; 2013 MY FR-S [03/2012 -]		

INSTALLATION

1. INSTALL CHAMBER ASSEMBLY

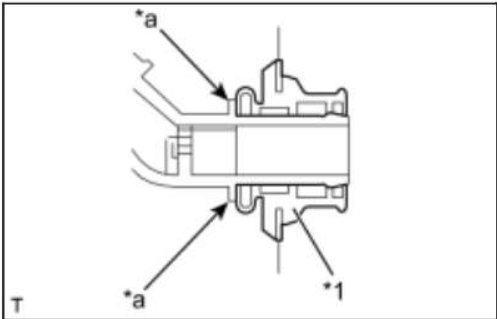
- (a) Install the air cleaner duct to the chamber assembly with a hose clamp.
- Torque:
- 2.0 N·m { 20 kgf·cm, 18in·lbf }

2. INSTALL AIR CLEANER DUCT

- (a) Install the 2 bolts and the air cleaner duct with the chamber.
- Torque:
- 6.0 N·m { 61 kgf·cm, 53in·lbf }
- (b) Install the air cleaner duct with a hose clamp.
- Torque:
- 2.0 N·m { 20 kgf·cm, 18in·lbf }

3. INSTALL HOSE

- (a) Engage the 2 clamps and install the hose.
- (b) Insert the hose in until its flange contacts that of the grommet.



Text in Illustration

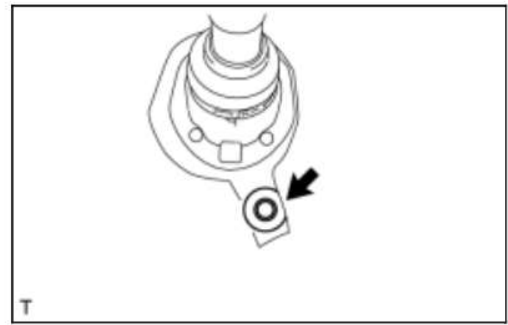
*1	Grommet
*a	Flange

NOTICE:

- Do not convolute the grommet when insert the hose to the grommet.
- Check the grommet from the vehicle interior side to verify that it is properly installed onto the body.

2/5/2014

TIS - Scion 2013 FR-S Repair Manual (RM20S0U)



(c) Connect the hose.



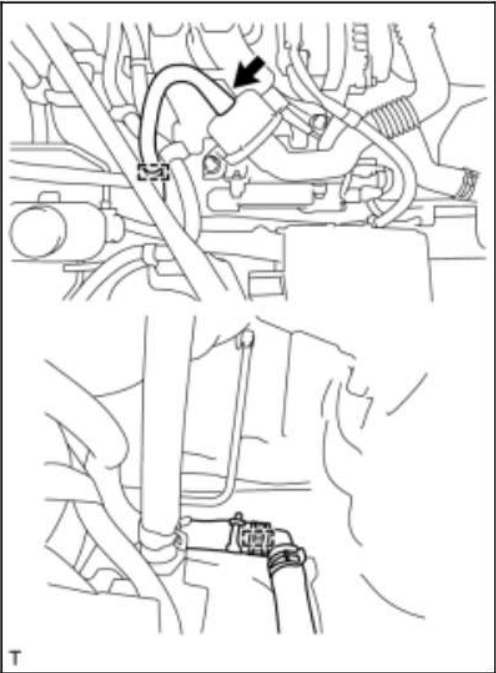
cardiagn.com

Last Modified: 4-14-2014	6.6 A	Doc ID: RM000001QDZ00SX
Model Year: 2013	Model: FR-S	Prod Date Range: [03/2012 -]
Title: FA20 INTAKE / EXHAUST: CHAMBER: REMOVAL; 2013 MY FR-S [03/2012 -]		

REMOVAL

1. REMOVE HOSE

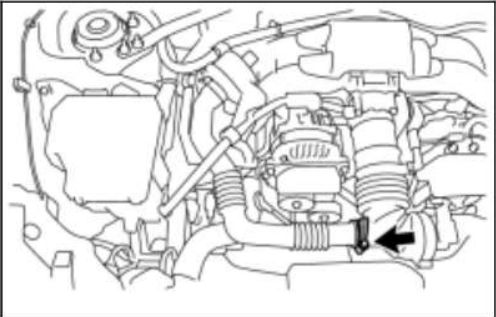
(a) Disconnect the hose.



- (b) Disengage the 2 clamps.
- (c) Remove the grommet and the hose.

2. REMOVE AIR CLEANER DUCT

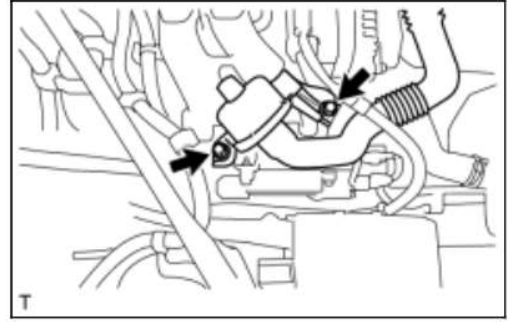
(a) Loosen the hose clamp.



2/5/2014

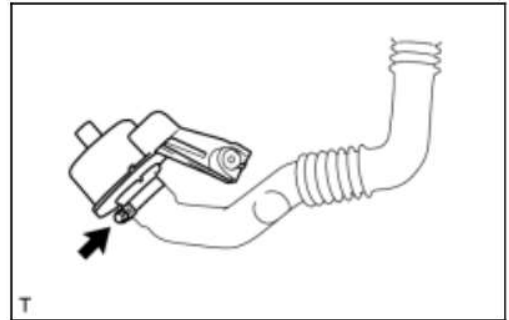
TIS - Scion 2013 FR-S Repair Manual (RM20S0U)

- (b) Remove the 2 bolts and the air cleaner duct with the chamber assembly.



3. REMOVE CHAMBER ASSEMBLY

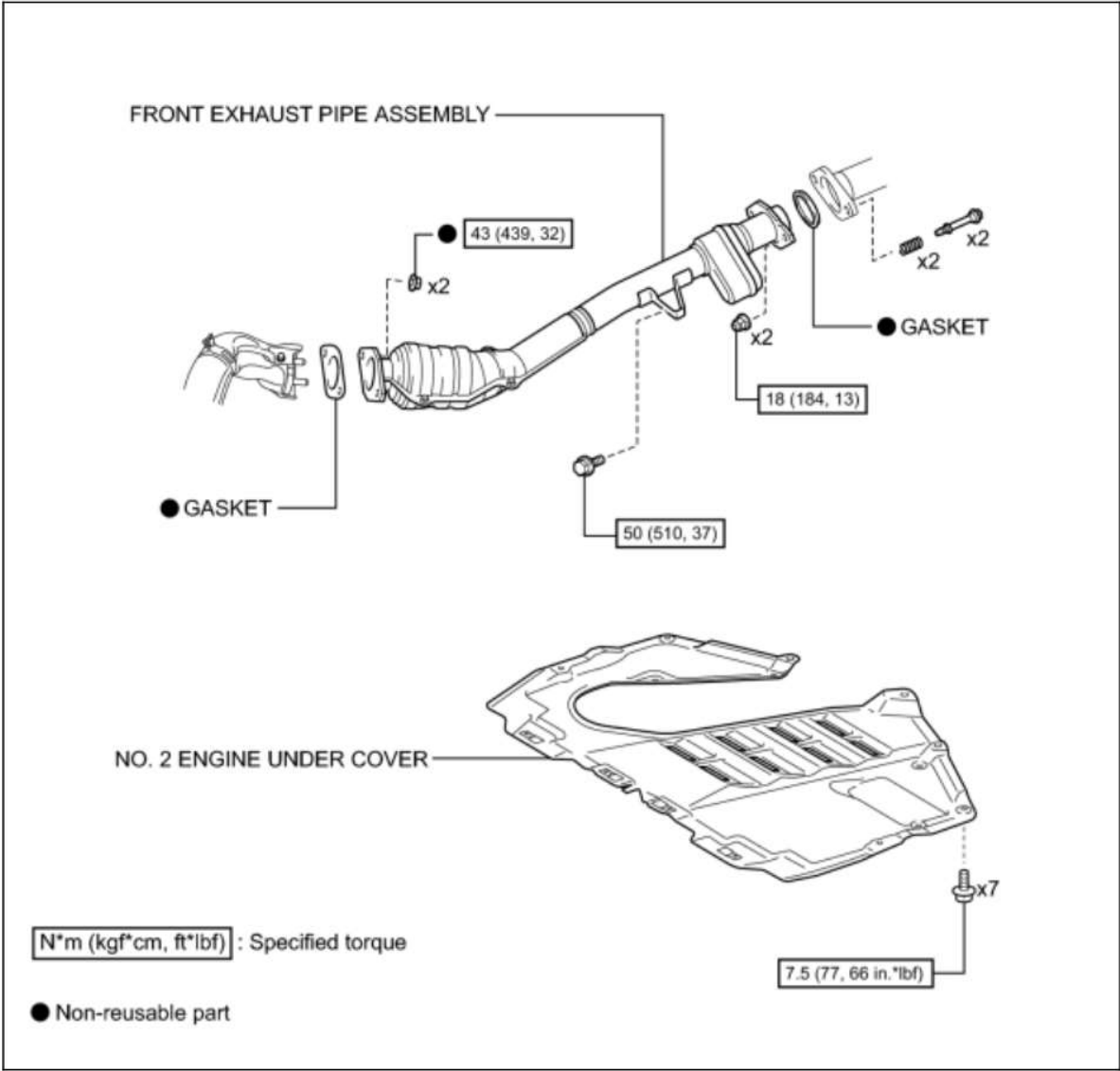
- (a) Loosen the hose clamp and remove the chamber assembly.



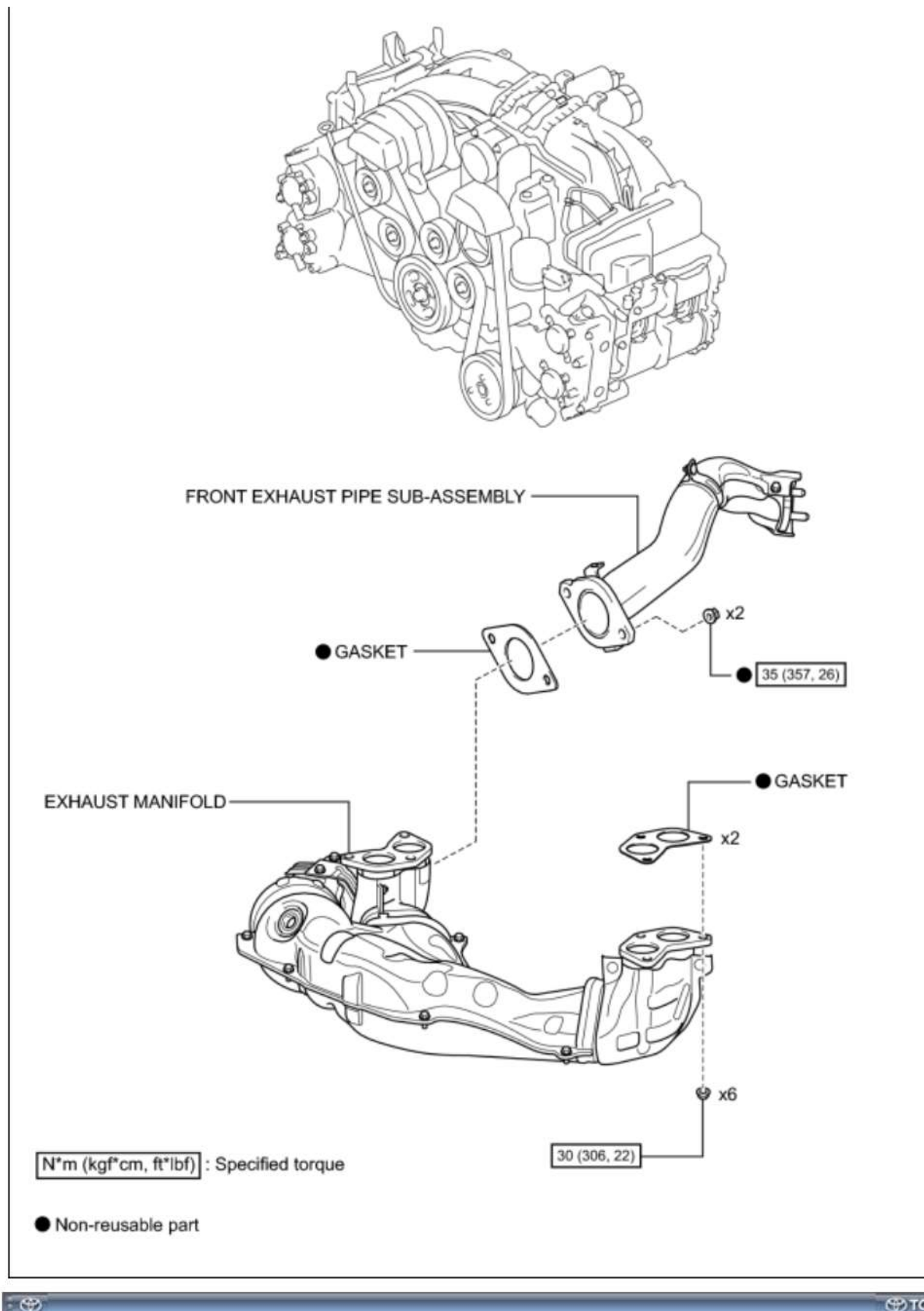
Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM00000497C007X
Title: FA20 INTAKE / EXHAUST: EXHAUST MANIFOLD: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



ILLUSTRATION



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM00000497B007X
Title: FA20 INTAKE / EXHAUST: EXHAUST MANIFOLD: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL EXHAUST MANIFOLD

- (a) Install 2 new gaskets.
- (b) Install the exhaust manifold with the 6 new nuts.

Torque: 30 N·m (306 kgf·cm, 22ft·lbf)

NOTICE:

Do not reuse the nuts.

- (c) Install new gasket to the exhaust manifold.
- (d) Install 2 new nuts and the front exhaust pipe sub-assembly.

Torque: 35 N·m (357 kgf·cm, 26ft·lbf)

2. INSTALL FRONT EXHAUST PIPE ASSEMBLY

INFO

3. INSTALL NO. 2 ENGINE UNDER COVER

INFO

4. INSTALL HEATED OXYGEN SENSOR

INFO

5. INSTALL AIR FUEL RATIO SENSOR

INFO

6. INSPECT FOR EXHAUST GAS LEAK

INFO



cardiagn.com

Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM00000497D007X
Title: FA20 INTAKE / EXHAUST: EXHAUST MANIFOLD: REMOVAL (2013 FR-S)		

REMOVAL

1. REMOVE AIR FUEL RATIO SENSOR

INFO

2. REMOVE HEATED OXYGEN SENSOR

INFO

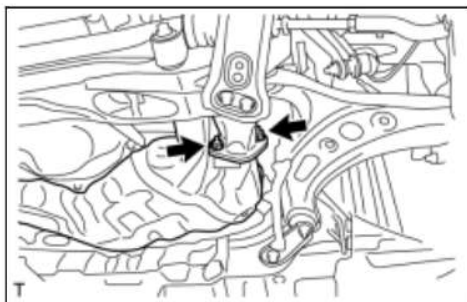
3. REMOVE NO. 2 ENGINE UNDER COVER

INFO

4. REMOVE FRONT EXHAUST PIPE ASSEMBLY

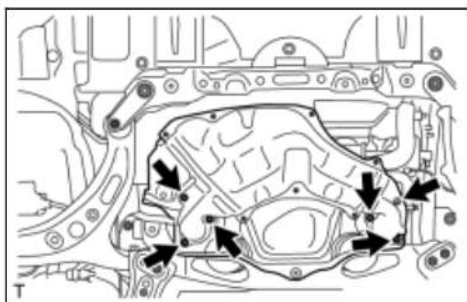
INFO

5. REMOVE EXHAUST MANIFOLD



(a) Remove the 2 nuts and disconnect the front exhaust pipe sub-assembly.

(b) Remove the gasket.



(c) Remove the 6 nuts and the exhaust manifold.

(d) Remove the 2 gaskets.

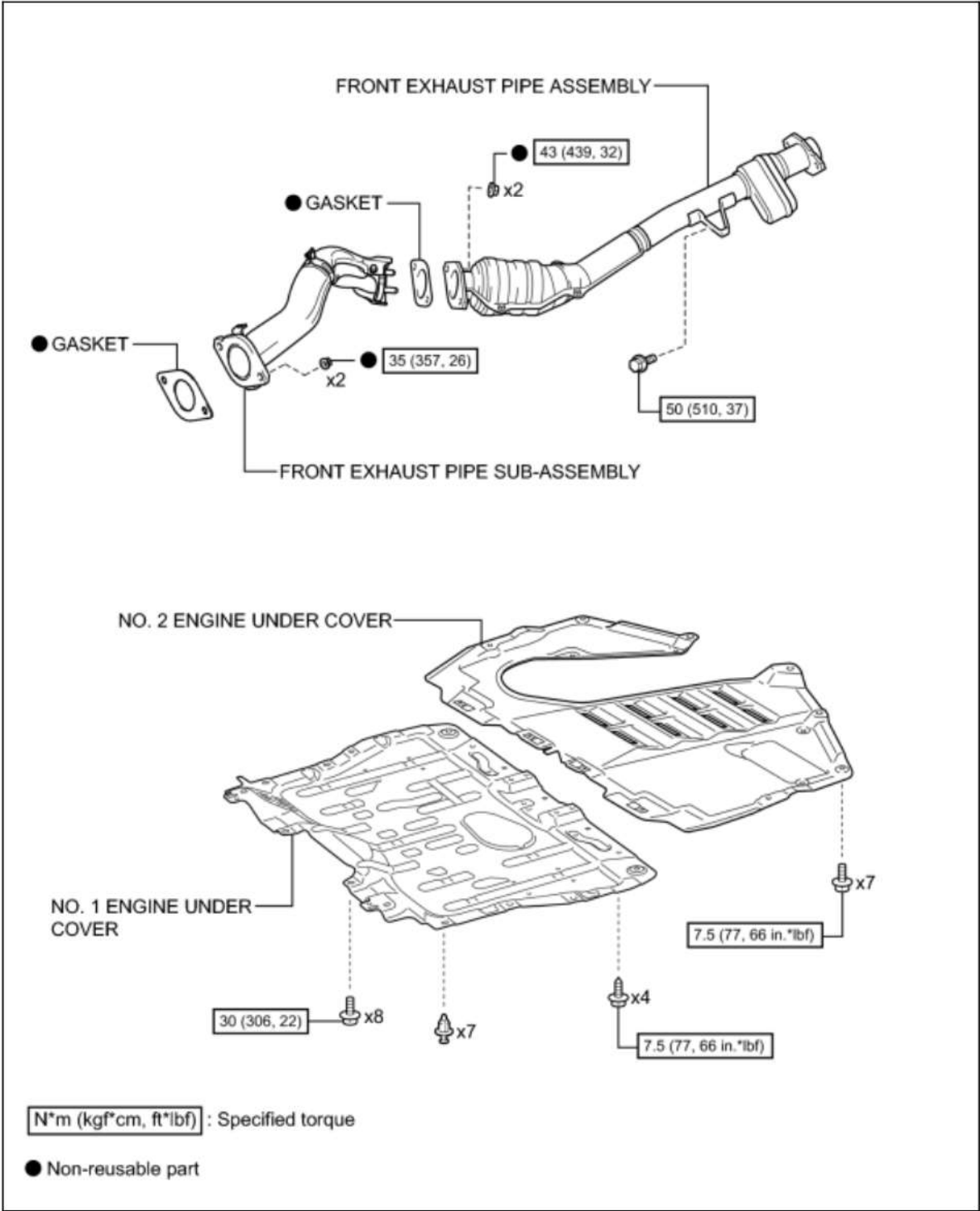


TOYOTA

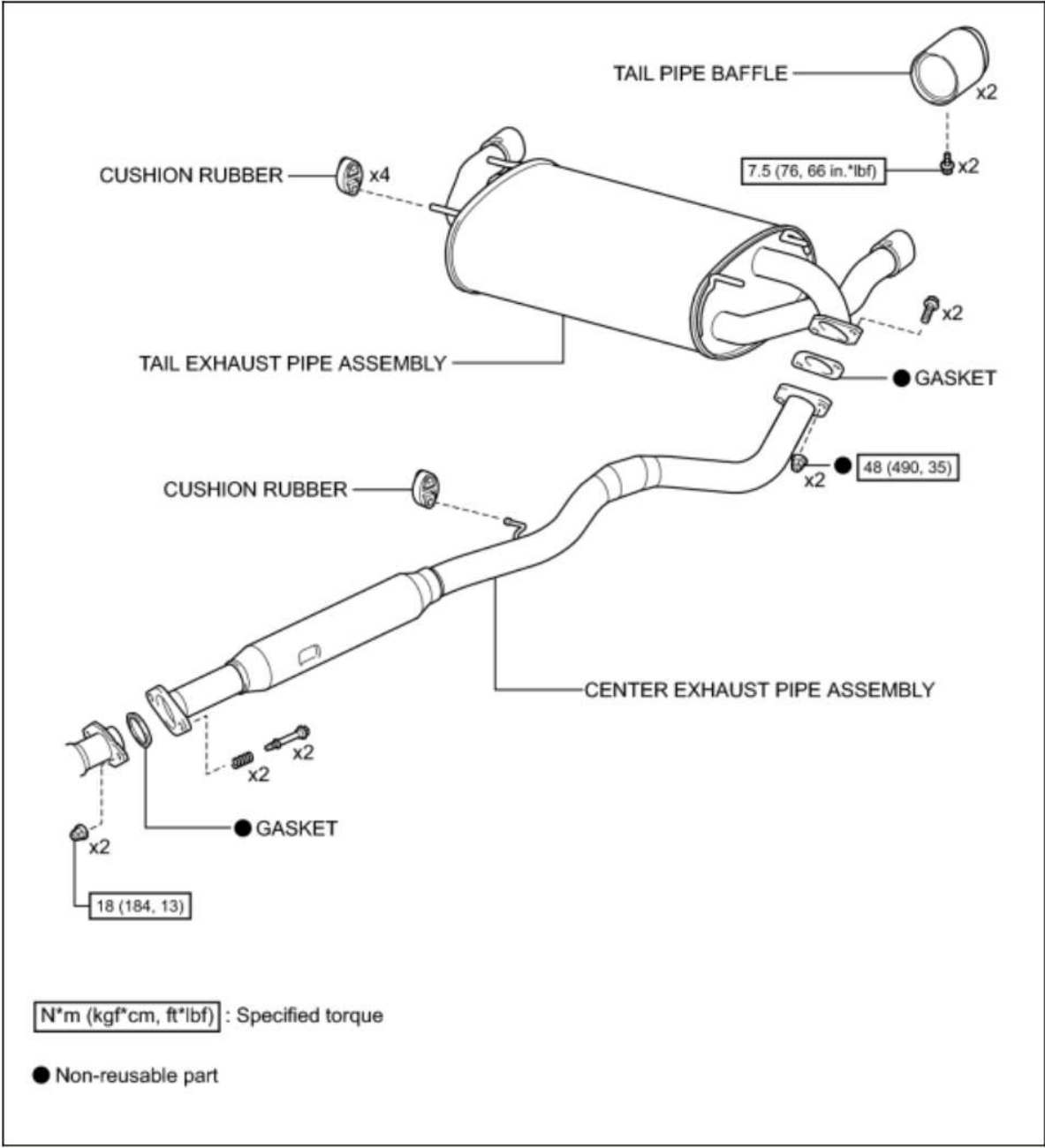
Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000QD104LX
Title: FA20 INTAKE / EXHAUST: EXHAUST PIPE: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



ILLUSTRATION



cardiagn.com

Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000QD005KX
Title: FA20 INTAKE / EXHAUST: EXHAUST PIPE: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL FRONT EXHAUST PIPE SUB-ASSEMBLY

(a) Rope up the front exhaust pipe sub-assembly to the front suspension crossmember.

HINT:

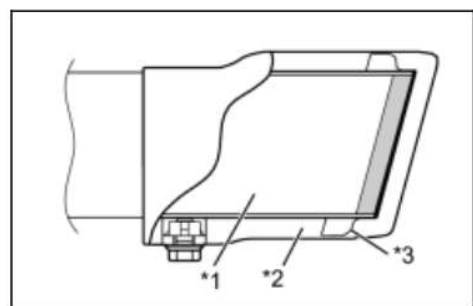
This operation is necessary in order to prevent the front exhaust pipe sub-assembly from falling off.

(b) Remove the SST. INFO

SST: 09250-53010

2. INSTALL TAIL PIPE BAFFLE

(a) Press in the tail pipe baffle until the tail exhaust pipe assembly plate contact shown in the illustration.



Text in Illustration

*1	Tail Exhaust Pipe Assembly
*2	Tail Pipe Baffle
*2	Plate
	Contact area

(b) Install the 2 bolts and the 2 tail pipe baffles.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

3. INSTALL TAIL EXHAUST PIPE ASSEMBLY

(a) Install the 4 cushion rubbers and the tail exhaust pipe assembly.

4. INSTALL CENTER EXHAUST PIPE ASSEMBLY

(a) Install the center exhaust pipe assembly with the cushion rubber.

(b) Install the 2 new gaskets and the center exhaust pipe assembly with the 2 new nuts and the 2

bolts.

Torque: 48 N·m (490 kgf·cm, 35ft·lbf)

NOTICE:

- Do not reuse the gaskets.
- Do not reuse the nuts.

5. INSTALL FRONT EXHAUST PIPE ASSEMBLY

- (a) Temporarily install the front exhaust pipe assembly to the bracket with the bolt.
- (b) Install the new gaskets and the front exhaust pipe assembly to the center exhaust pipe assembly with the 2 nuts.

Torque: 18 N·m (184 kgf·cm, 13ft·lbf)

NOTICE:

- Do not reuse the gaskets.
- Do not reuse the nuts.

- (c) Install the new gaskets and the front exhaust pipe assembly to the front exhaust pipe sub-assembly with the 2 new nuts.

Torque: 43 N·m (439 kgf·cm, 32ft·lbf)

NOTICE:

- Do not reuse the gaskets.
- Do not reuse the nuts.

- (d) Fully tighten the bolt.

Torque: 50 N·m (510 kgf·cm, 37ft·lbf)

6. INSPECT FOR EXHAUST GAS LEAK

- (a) If gas is leaking, tighten the areas necessary to stop the leak. Replace the damaged parts as necessary.

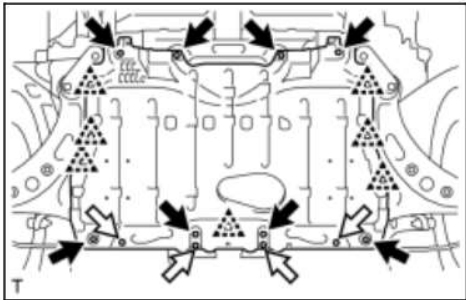
7. INSTALL NO. 2 ENGINE UNDER COVER

- (a) Install the 7 bolts and the No. 2 engine under cover.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

8. INSTALL NO. 1 ENGINE UNDER COVER

- (a) Install the No. 1 engine under cover with the 12 bolts and engage the 7 clips.



	Bolt A
---	--------



Bolt A - Torque: 30 N·m (306 kgf·cm, 22ft·lbf)

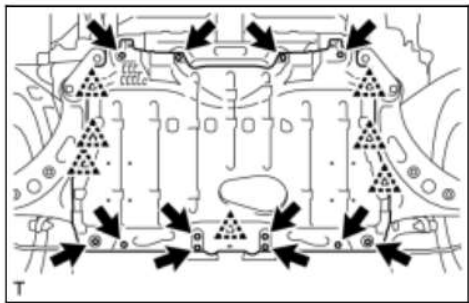
Bolt B - Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000QD205FX
Title: FA20 INTAKE / EXHAUST: EXHAUST PIPE: REMOVAL (2013 FR-S)		

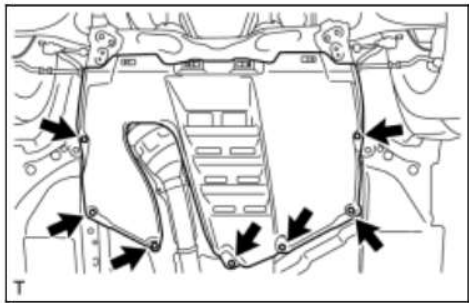
REMOVAL

1. REMOVE NO. 1 ENGINE UNDER COVER



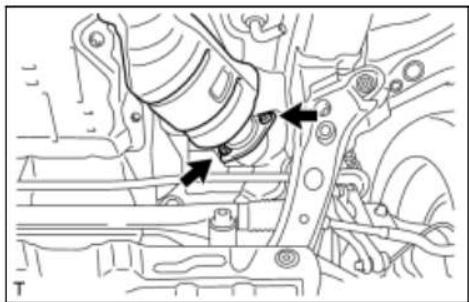
(a) Disengage the 7 clips and remove the 12 bolts and No. 1 engine under cover.

2. REMOVE NO. 2 ENGINE UNDER COVER

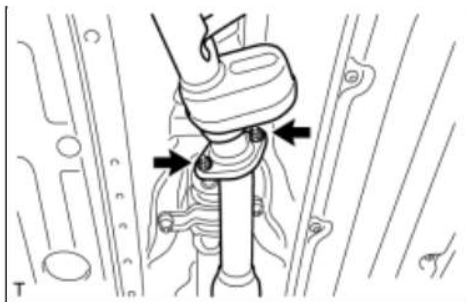


(a) Remove the 7 bolts and the No. 2 engine under cover.

3. REMOVE FRONT EXHAUST PIPE ASSEMBLY

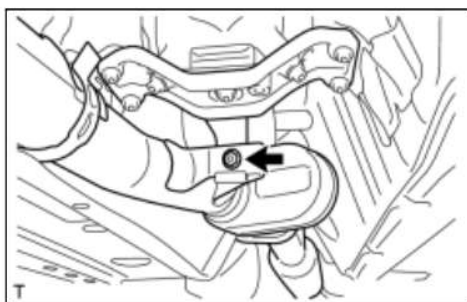


(a) Remove the 2 nuts and disconnect the exhaust joint pipe.



(b) Remove the 2 nuts and the 2 bolts.

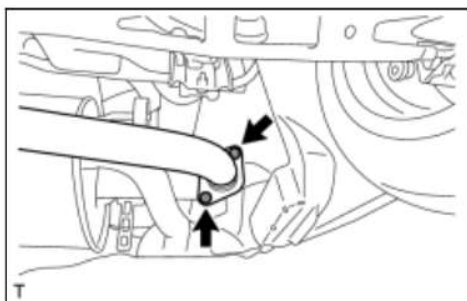
(c) Remove the 2 compression springs and disconnect the center exhaust pipe assembly.



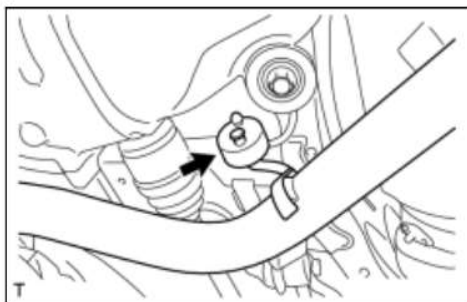
(d) Remove the bolt and the front exhaust pipe assembly.

(e) Remove the 2 gaskets.

4. REMOVE CENTER EXHAUST PIPE ASSEMBLY



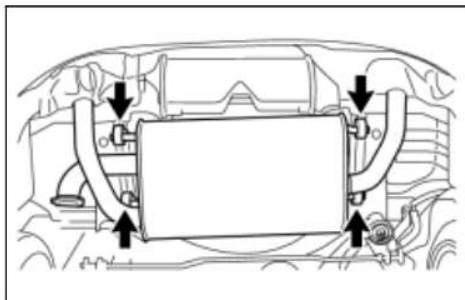
(a) Remove the 2 nuts and 2 bolts, and disconnect the tail exhaust pipe assembly.



(b) Remove the cushion rubber and the center exhaust pipe assembly.

(c) Remove the gasket.

5. REMOVE TAIL EXHAUST PIPE ASSEMBLY

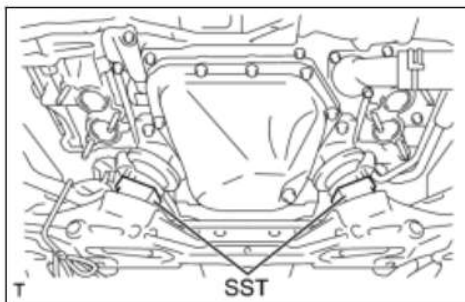


- (a) Remove the 4 cushion rubbers and the tail exhaust pipe assembly.

6. REMOVE TAIL PIPE BAFFLE

- (a) Remove the 2 bolts and the 2 tail pipe baffles.

7. REMOVE FRONT EXHAUST PIPE SUB-ASSEMBLY



- (a) Set the SST. [INFO](#)
SST: 09250-53010

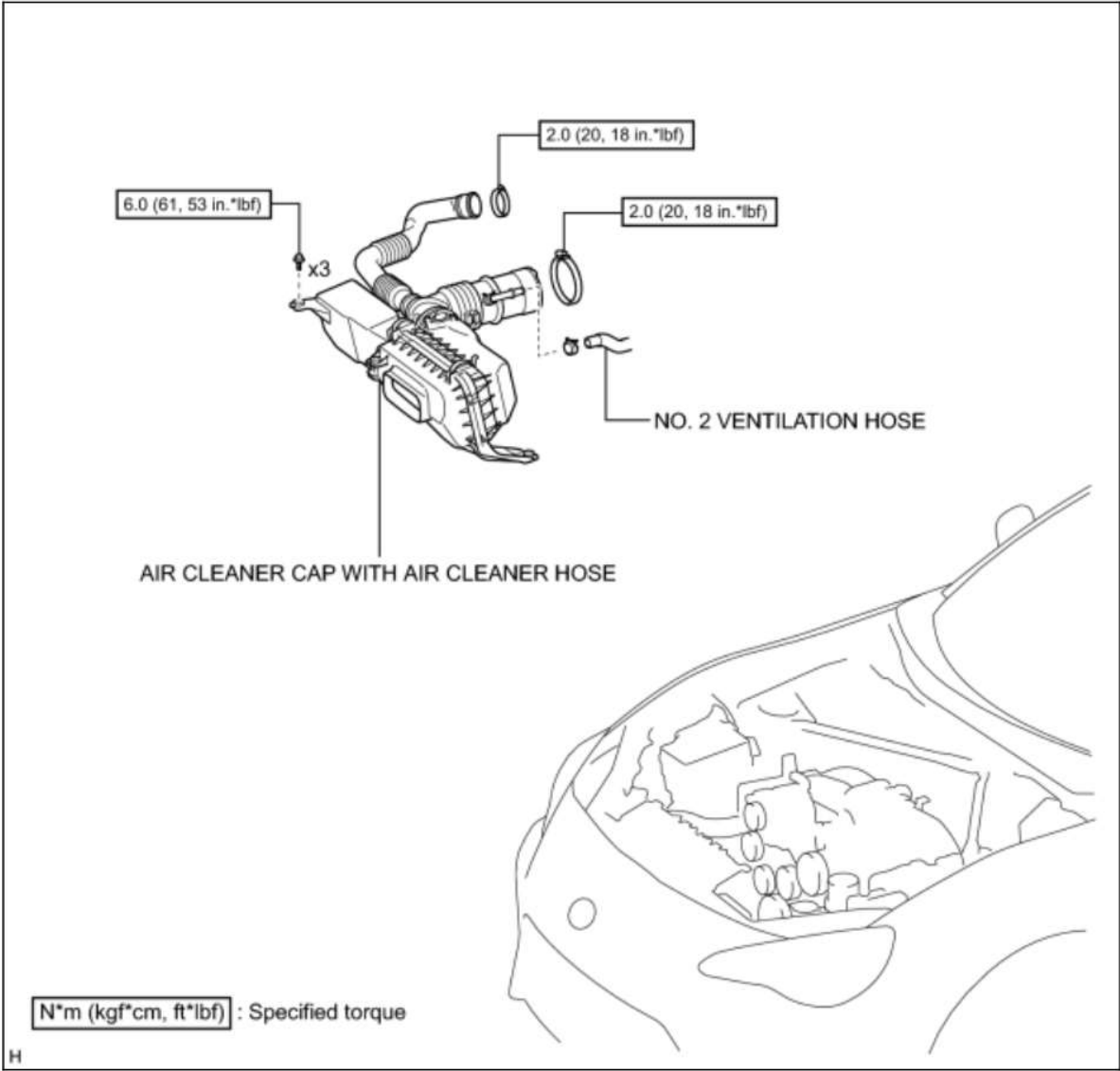
- (b) Remove the rope that is tying the joint pipe to the front suspension cross member sub-assembly.
(c) Remove the exhaust joint pipe.



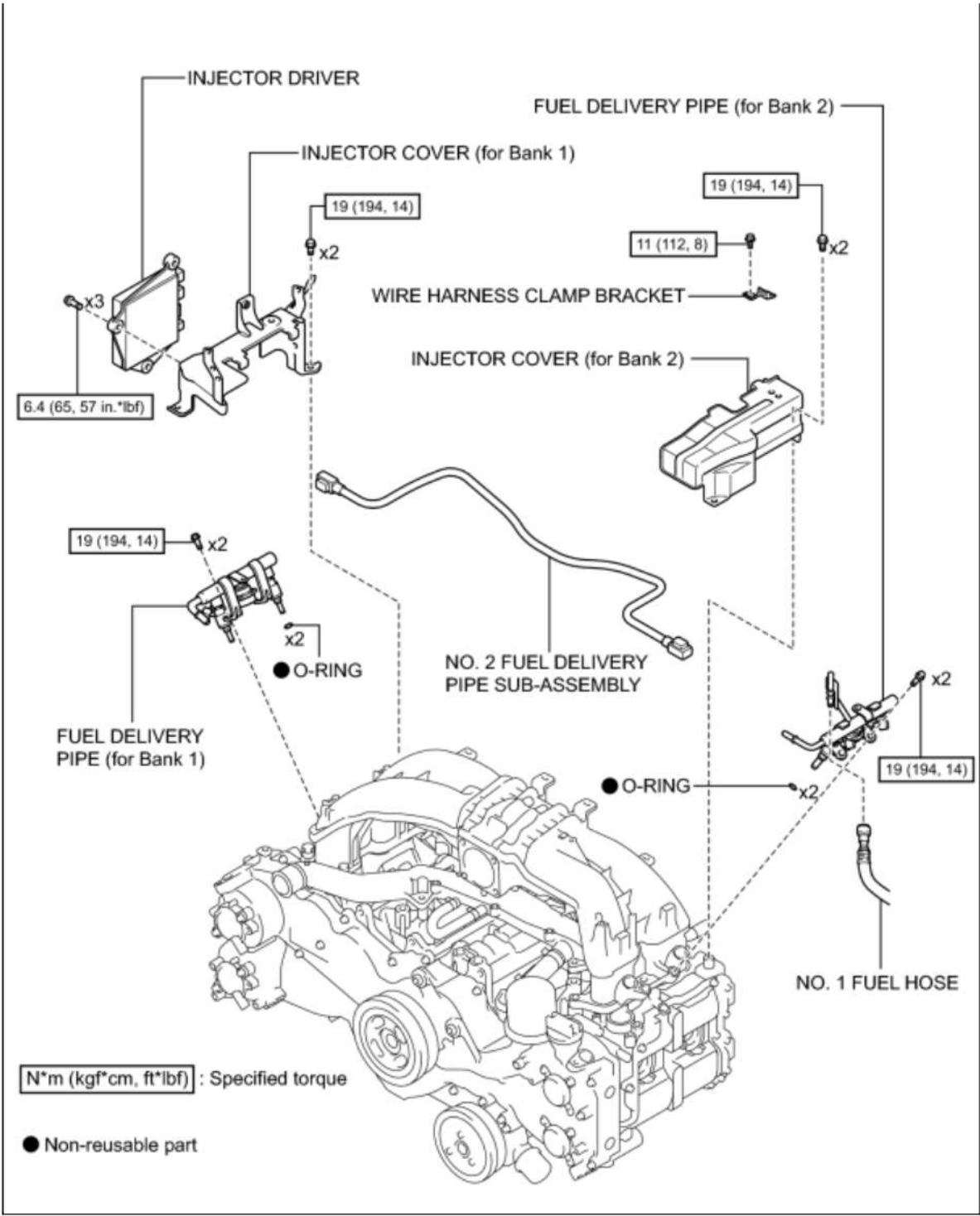
Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000Q0T024X
Title: FA20 INTAKE / EXHAUST: INTAKE MANIFOLD: COMPONENTS (2013 FR-S)		

COMPONENTS

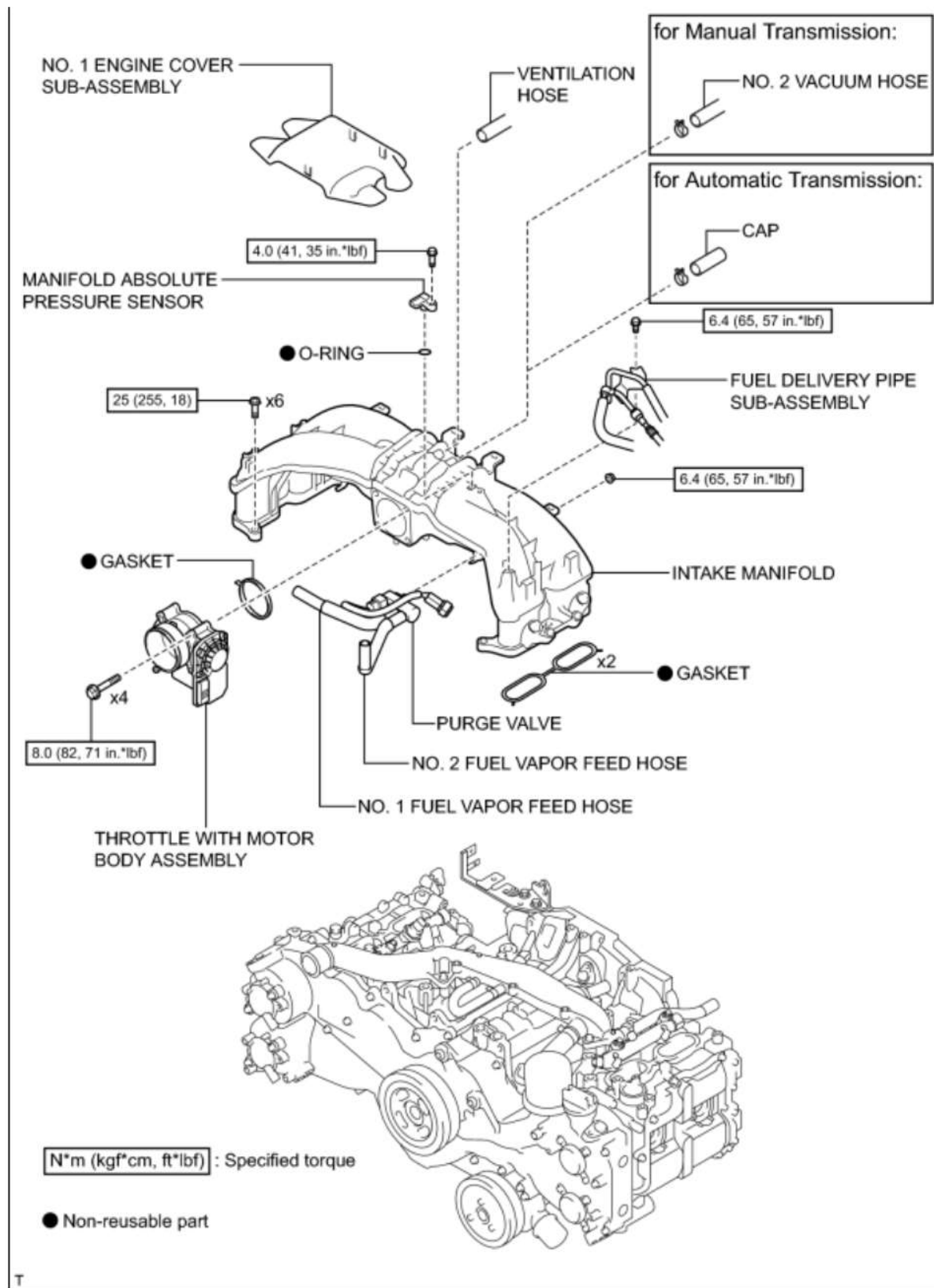
ILLUSTRATION



ILLUSTRATION



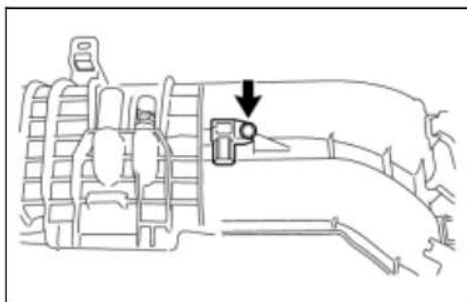
ILLUSTRATION



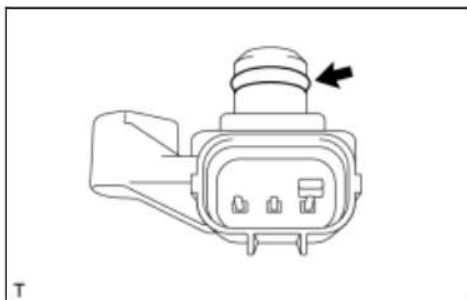
Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000MU900WX
Title: FA20 INTAKE / EXHAUST: INTAKE MANIFOLD: DISASSEMBLY (2013 FR-S)		

DISASSEMBLY

1. REMOVE MANIFOLD ABSOLUTE PRESSURE SENSOR

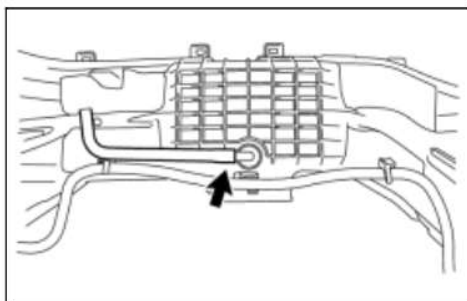


- (a) Remove the bolt and manifold absolute pressure sensor from the intake manifold.

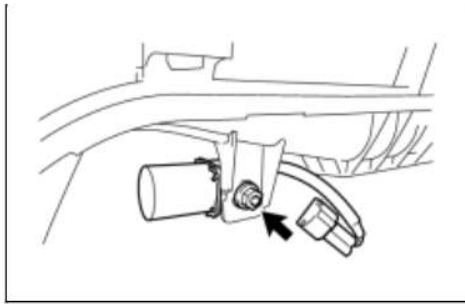


- (b) Remove the O-ring from the manifold absolute pressure sensor.

2. REMOVE PURGE VALVE

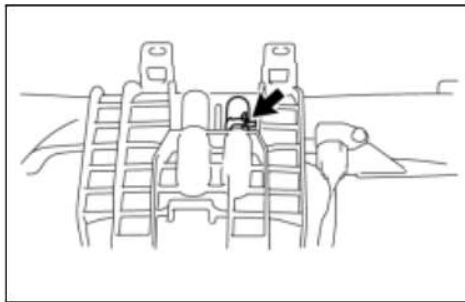


- (a) Disconnect the No. 1 fuel vapor feed hose from the intake manifold.



(b) Remove the nut and purge valve.

3. REMOVE CAP (for Automatic Transmission)



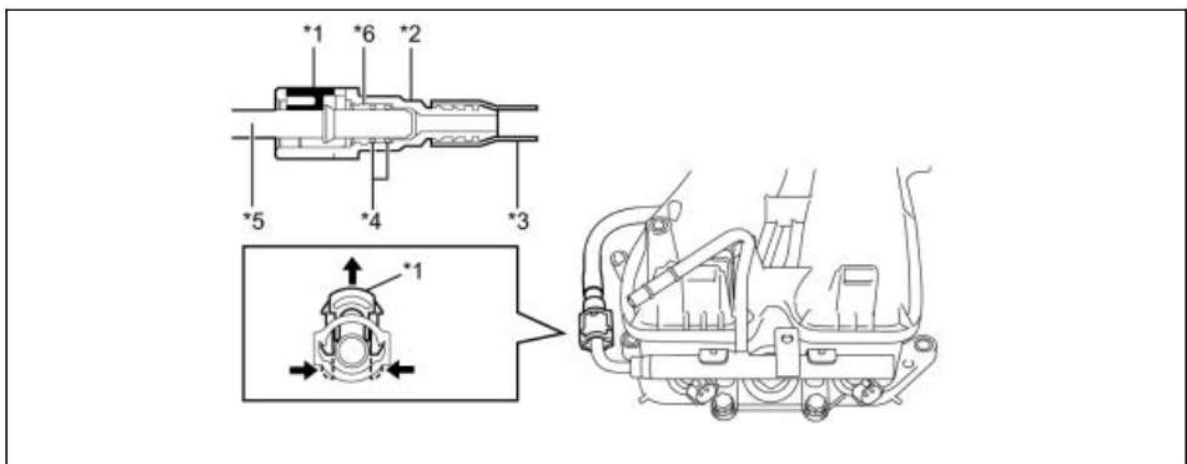
(a) Remove the cap from the intake manifold.

4. REMOVE FUEL DELIVERY PIPE (for Bank 2)

(a) Disconnect the No. 2 fuel delivery pipe sub-assembly from the fuel delivery pipe.

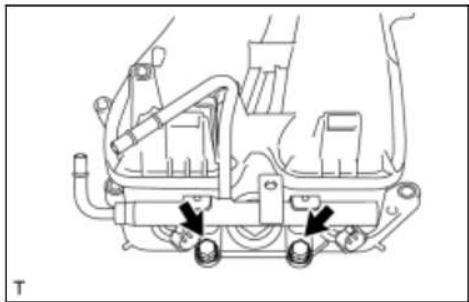
NOTICE:

- If the connector and pipe are stuck, pinch the fuel delivery pipe by hand and push and pull the connector to disconnect it
- Do not allow any scratches or foreign matter on the parts when disconnecting them, as the No. 2 fuel delivery pipe sub-assembly joint contains the O-rings that seal the plug.
- Do not use any tools to separate the pipe and connector.
- Do not forcibly bend, twist or turn the nylon tube.
- If the pipe and connector are stuck together, pinch the tube between your fingers and turn it carefully to free it. Then, disconnect the main tube.
- Protect the disconnected part by covering it with a plastic bag and tape after disconnecting the main tube.
- Check that the top hat cannot be pulled out.



Text in Illustration

*1	Retainer	*2	No. 2 Fuel Delivery Pipe Sub-assembly Connector
*3	Nylon Tube	*4	O-ring
*5	fuel delivery pipe	*6	Top Hat



(b) Remove the 2 bolts and the fuel delivery pipe from the intake manifold.

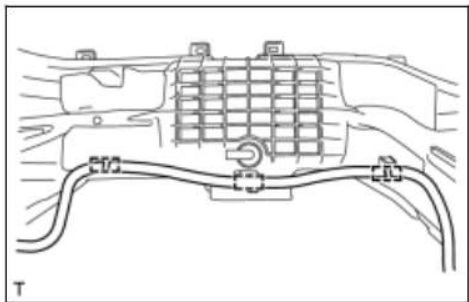
(c) Remove the 2 O-rings.

5. REMOVE FUEL DELIVERY PIPE (for Bank 1)

HINT:

Use the same procedure described for the fuel delivery pipe (for bank 2).

6. REMOVE NO. 2 FUEL DELIVERY PIPE SUB-ASSEMBLY



(a) Disengage the 3 clamps and remove the No. 2 fuel delivery pipe sub-assembly from the intake manifold.



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000VFL02UX
Title: FA20 INTAKE / EXHAUST: INTAKE MANIFOLD: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL INTAKE MANIFOLD

- (a) Install the 2 new gaskets to the intake manifold.
- (b) Install the intake manifold with the 6 bolts.
Torque: 25 N·m (255 kgf·cm, 18ft·lbf)
- (c) Engage the 2 clamps.
- (d) Engage the 4 connectors and connect the wire harness.
- (e) Connect the fuel pump connector.
- (f) Engage the clamp and connect the engine wire harness.
- (g) Engage the 5 clamps and connect the battery cable.
- (h) Connect the purge valve connector.
- (i) Connect the manifold absolute pressure sensor connector.

2. CONNECT VENTILATION HOSE

- (a) Connect the ventilation hose.

3. CONNECT NO. 2 VACUUM HOSE (for Manual Transmission) INFO

4. INSTALL NO. 1 ENGINE COVER SUB-ASSEMBLY

- (a) Engage the 3 claws and install the No. 1 engine cover sub-assembly.

5. CONNECT FUEL DELIVERY PIPE SUB-ASSEMBLY

- (a) Connect the No. 2 fuel vapor feed hose.
- (b) Install the bolt and connect the fuel delivery pipe sub-assembly.

Torque: 6.4 N·m (65 kgf·cm, 57in·lbf)

6. CONNECT NO. 1 FUEL HOSE INFO

7. INSTALL INJECTOR COVER (for Bank 2) INFO

8. INSTALL INJECTOR COVER (for Bank 1) INFO

9. INSTALL INJECTOR DRIVER INFO

10. CONNECT THROTTLE WITH MOTOR BODY ASSEMBLY

- (a) Install a new gasket to the intake manifold.
- (b) Install the 4 bolts and throttle with motor body assembly to intake manifold.

Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

11. INSTALL AIR CLEANER CAP WITH AIR CLEANER HOSE INFO

12. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque: 6.0 N·m (61 kgf·cm, 53in·lbf)

13. INSPECT FUEL PUMP OPERATION AND INSPECT FOR FUEL LEAK [INFO](#)

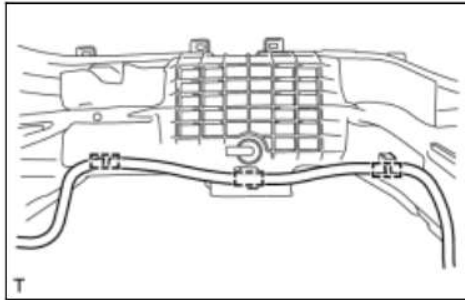
14. INSPECT THROTTLE WITH MOTOR BODY ASSEMBLY [INFO](#)



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000MU600XX
Title: FA20 INTAKE / EXHAUST: INTAKE MANIFOLD: REASSEMBLY (2013 FR-S)		

REASSEMBLY

1. INSTALL NO. 2 FUEL DELIVERY PIPE SUB-ASSEMBLY



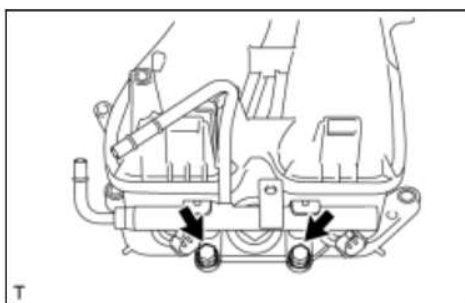
- (a) Install the No. 2 fuel delivery pipe sub-assembly to the intake manifold with the 3 clamps.

2. INSTALL FUEL DELIVERY PIPE (for Bank 2)

- (a) Apply a gasoline to the contact surfaces of the new O-ring on each fuel injector assembly.
- (b) Install a new O-ring to each fuel injector assembly.
- (c) Install the fuel injector assembly to the intake manifold with fuel delivery pipe.

NOTICE:

- Do not damage the fuel injector assembly or the O-ring.
- Do not twist the O-ring.



- (d) Install the fuel delivery pipe with the 2 bolts.

Torque: 19 N·m (194 kgf·cm, 14ft·lbf)

- (e) Check that the fuel injectors rotate smoothly.

NOTICE:

If the fuel injectors do not rotate smoothly, the probable cause is incorrect installation of the O-rings. Replace the O-rings.

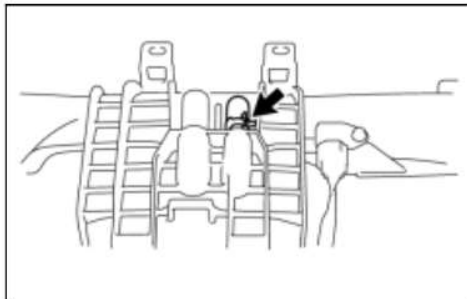
- (f) Position the fuel injector connector outward.

3. INSTALL FUEL DELIVERY PIPE (for Bank 1)

HINT:

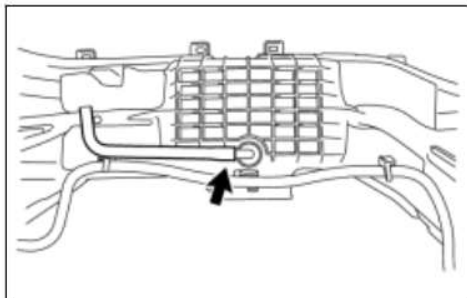
Use the same procedure described for the fuel delivery pipe (for bank 2).

4. INSTALL CAP (for Automatic Transmission)

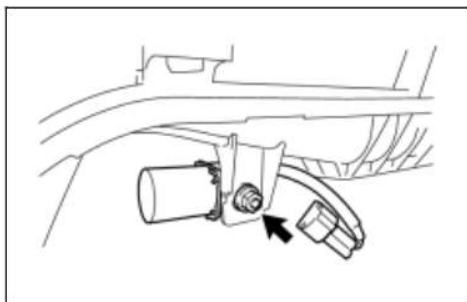


(a) Install the clamp and cap to the intake manifold.

5. INSTALL PURGE VALVE



(a) Connect the No.1 fuel vapor feed hose to the intake manifold.

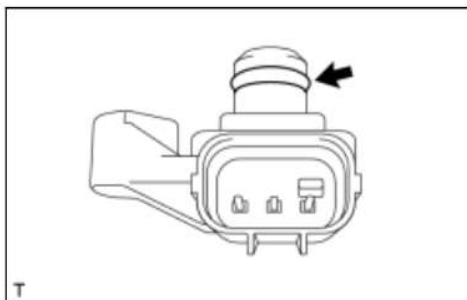


(b) Install the nut and purge valve to the intake manifold.

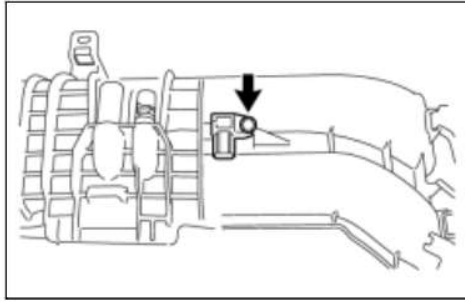
Torque: 6.4 N·m (65 kgf·cm, 57in·lbf)

6. INSTALL MANIFOLD ABSOLUTE PRESSURE SENSOR

(a) Apply engine oil to the contact surfaces of the new O-ring on manifold absolute pressure sensor.



(b) Install a new O-ring to the manifold absolute pressure sensor.



(c) Install the manifold absolute pressure sensor to the intake manifold with the bolt.

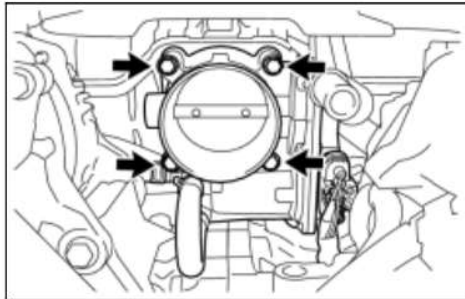
Torque: 4.0 N·m (41 kgf·cm, 35in·lbf)



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000Q0U02UX
Title: FA20 INTAKE / EXHAUST: INTAKE MANIFOLD: REMOVAL (2013 FR-S)		

REMOVAL

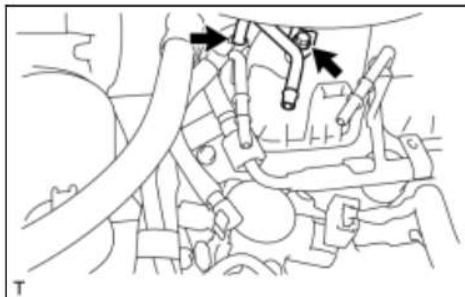
1. CHECK FUEL PUMP OPERATION AND INSPECT FOR FUEL LEAK INFO
2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL INFO
3. REMOVE AIR CLEANER CAP WITH AIR CLEANER HOSE INFO
4. REMOVE THROTTLE WITH MOTOR BODY ASSEMBLY



(a) Remove the 4 bolts and the throttle with motor body assembly.

(b) Remove the gasket.

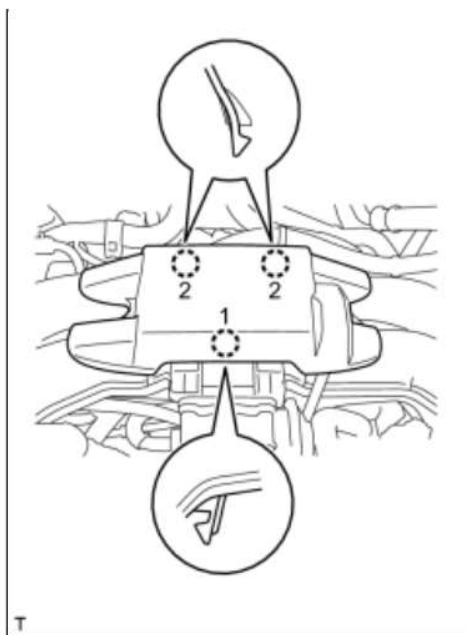
5. REMOVE INJECTOR DRIVER INFO
6. REMOVE INJECTOR COVER (for Bank 2) INFO
7. REMOVE INJECTOR COVER (for Bank 1) INFO
8. DISCONNECT NO. 1 FUEL HOSE INFO



9. DISCONNECT FUEL DELIVERY PIPE SUB-ASSEMBLY

- (a) Remove the bolt and disconnect the fuel delivery pipe sub-assembly.
- (b) Disconnect the No. 2 fuel vapor feed hose and move the fuel delivery pipe toward the front of the vehicle.

10. REMOVE NO. 1 ENGINE COVER SUB-ASSEMBLY



(a) Disengage the 3 crows and remove the No. 1 engine cover sub-assembly.

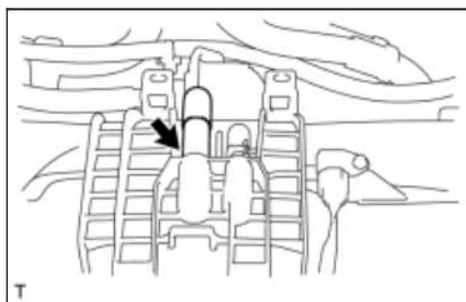
HINT:

Disengage the 3 crows in the order shown in the illustration.

11. DISCONNECT NO. 2 VACUUM HOSE (for Manual Transmission)

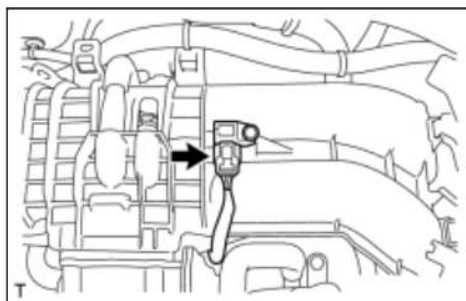
INFO

12. DISCONNECT VENTILATION HOSE

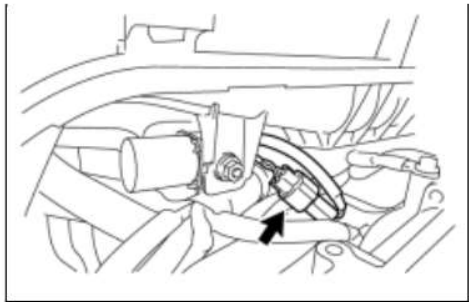


(a) Disconnect the ventilation hose.

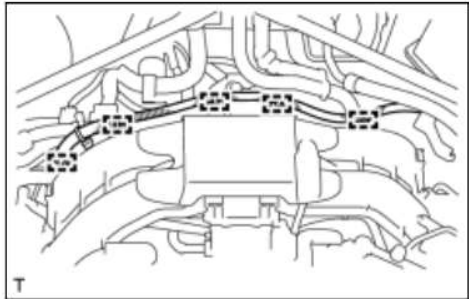
13. REMOVE INTAKE MANIFOLD



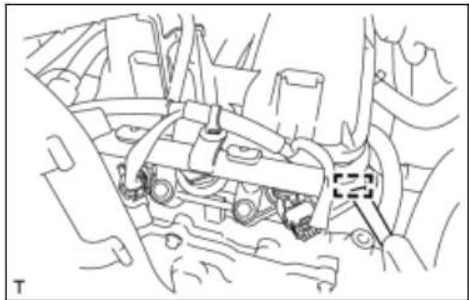
(a) Disconnect the manifold absolute pressure sensor connector.



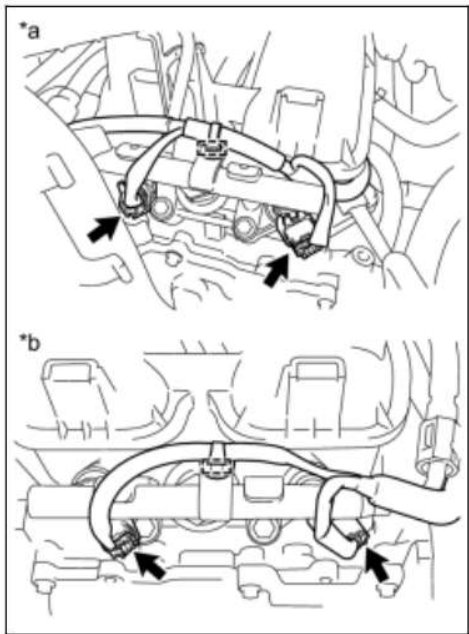
(b) Disconnect the purge valve connector.



(c) Disengage the 5 clamps and disconnect the battery cable.



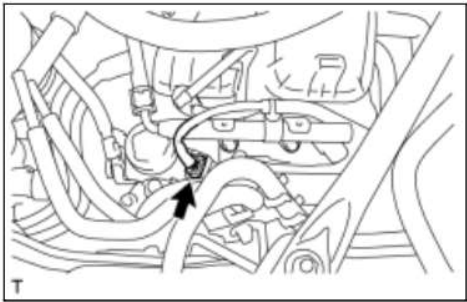
(d) Disengage the clamp and disconnect the engine wire harness.



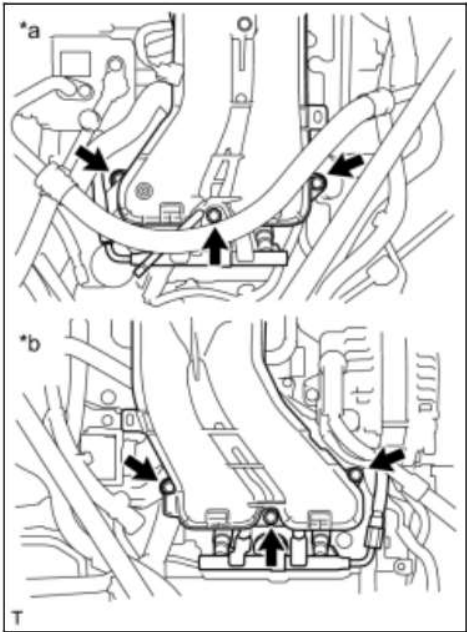
(e) Disengage the 2 clamps and disconnect the 4 connectors.

Text in Illustration

*a	Bank 2 Side
*b	Bank 1 Side



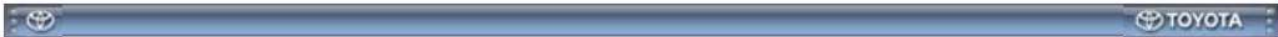
(f) Disconnect the fuel pump connector.



(g) Remove the 6 bolts, intake manifold and 2 gaskets.

Text in Illustration

*a	Bank 2 Side
*b	Bank 1 Side

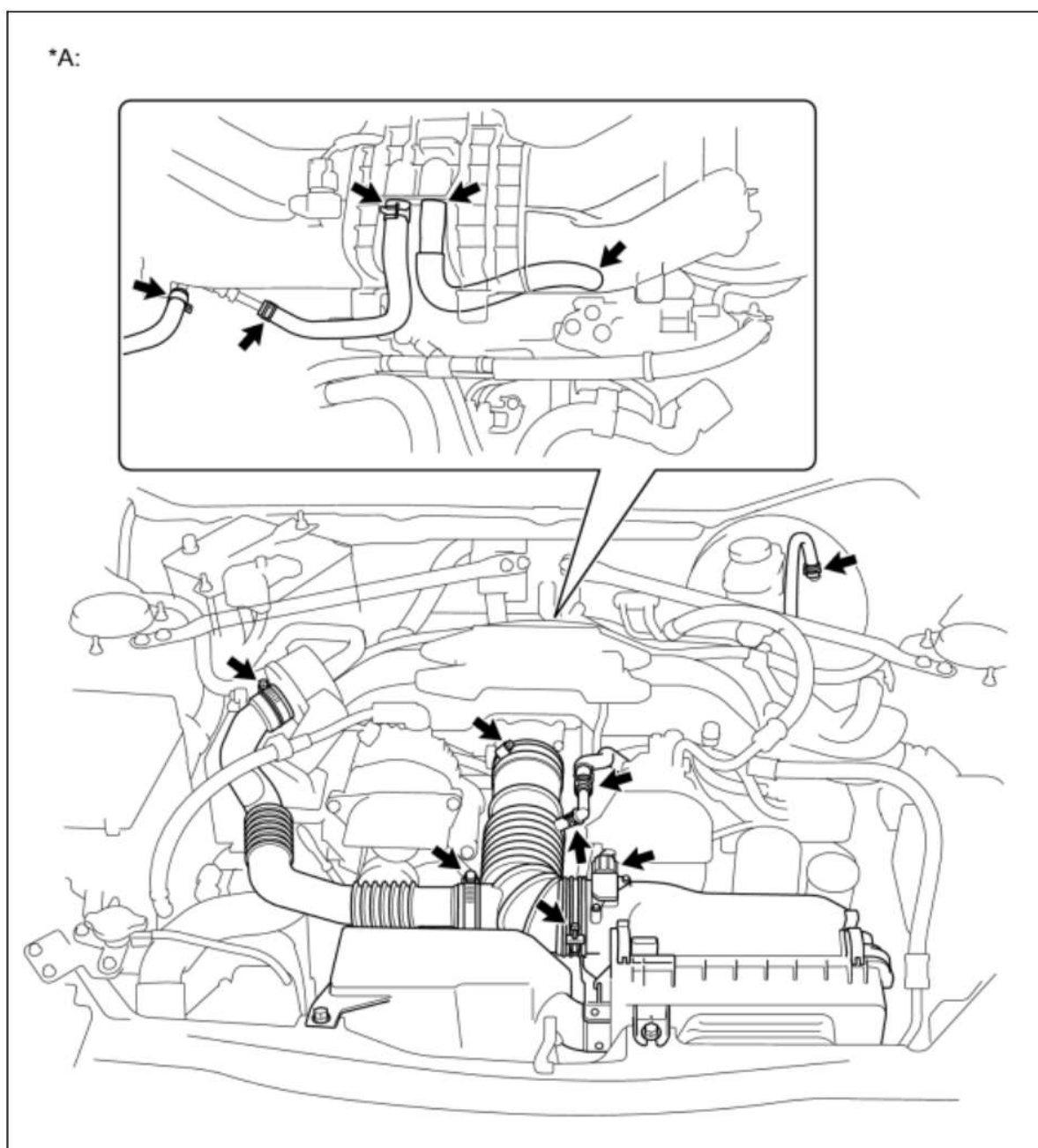


Last Modified: 3-27-2012	6.4 G	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000Q2601JX
Title: FA20 INTAKE / EXHAUST: INTAKE SYSTEM: ON-VEHICLE INSPECTION (2013 FR-S)		

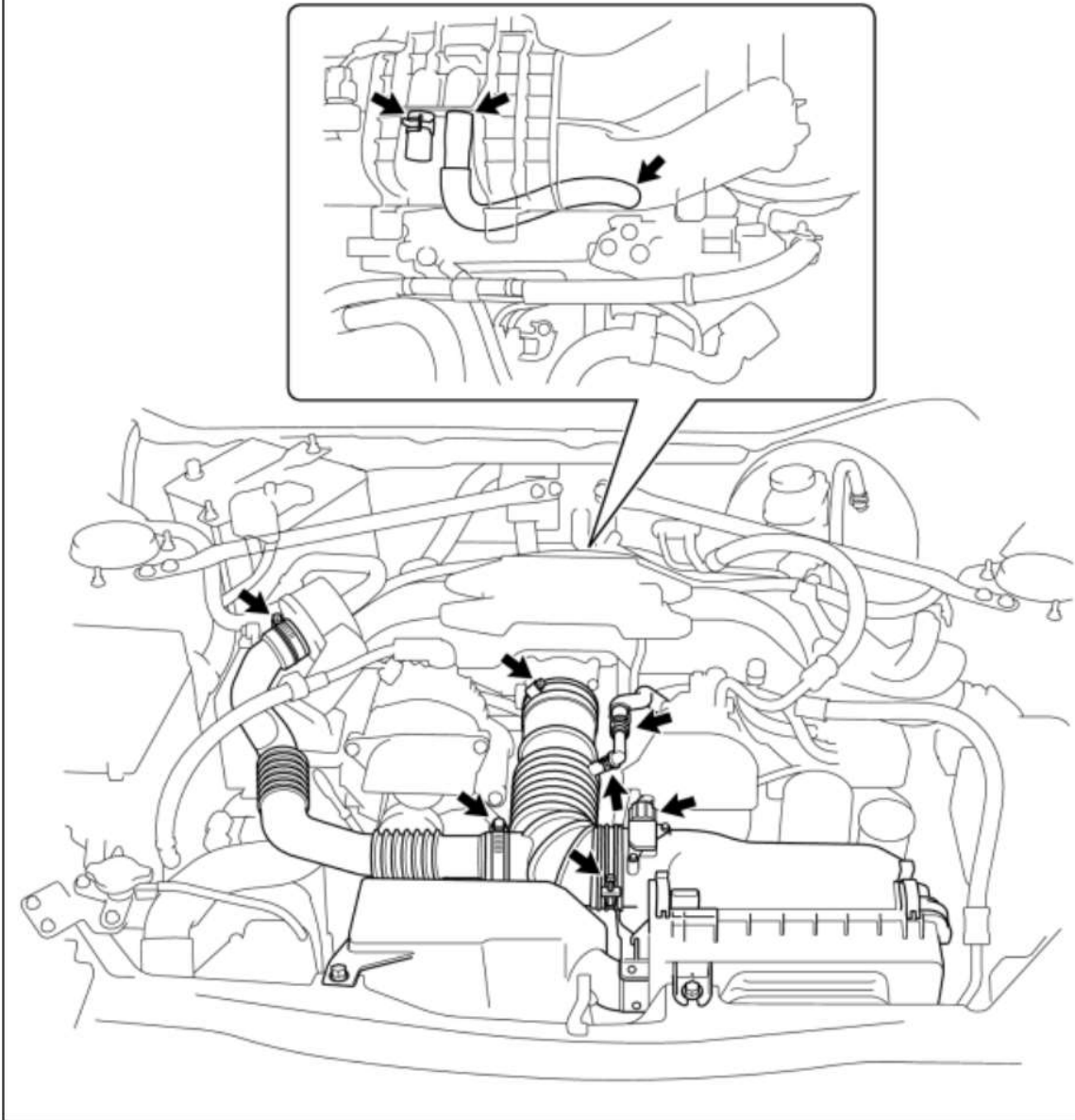
ON-VEHICLE INSPECTION

1. INSPECT INTAKE SYSTEM

- (a) Check that there is no air suction at the points shown in the illustration.



*B:



Text in Illustration

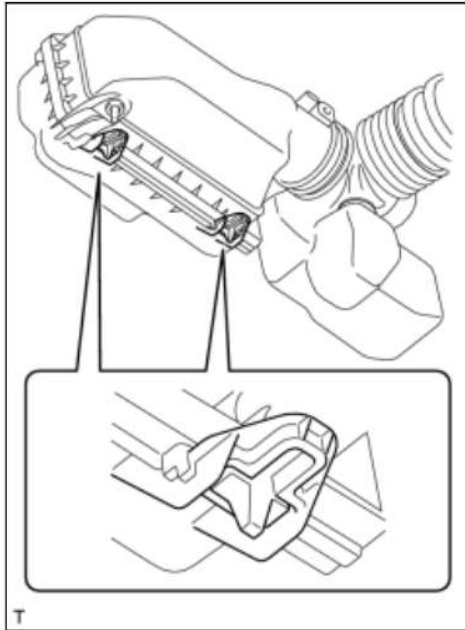
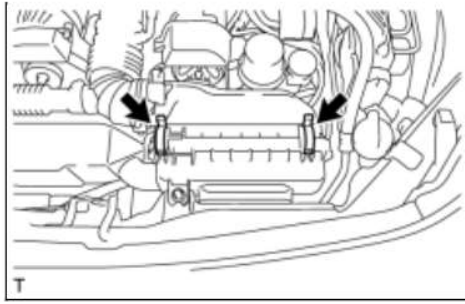
*A	for Manual Transmission	*B	for Automatic Transmission
----	-------------------------	----	----------------------------

NOTICE:

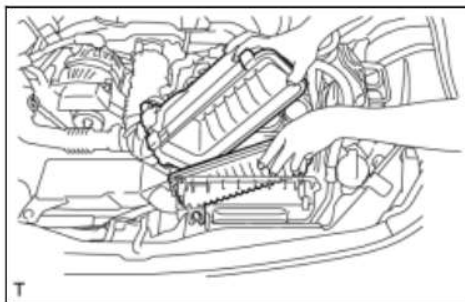
Disengagement, cracks or damage in the intake component may cause an idling defect.

2. INSPECT AIR CLEANER FILTER ELEMENT SUB-ASSEMBY

(a) Disengage the 2 clips.



(b) Lift the rear air cleaner case, and disengage the 2 claws.



(c) Lift the rear air cleaner case as shown in the illustration, and remove the air cleaner filter element sub-assembly.

(d) Check that the air cleaner element is moderately clean.

Standard air cleaner element condition:

Not too dirty.

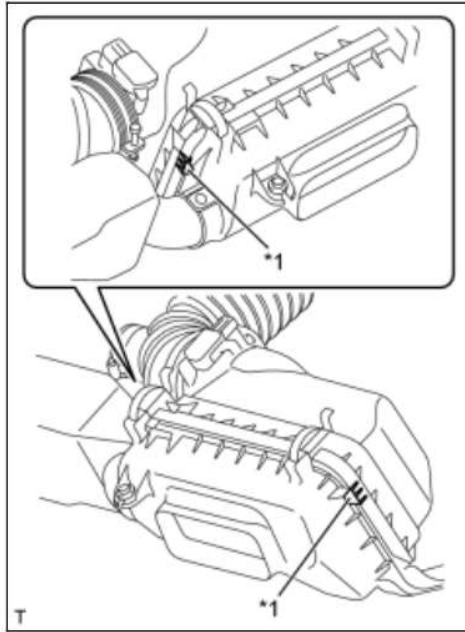
NOTICE:

If the element is too dirty, replace the air cleaner filter element.

(e) Use compressed air if the air cleaner filter element needs to be cleaned.

(f) Lift the rear air cleaner case, and install the air cleaner filter element sub-assembly.

(g) Engage the 2 claws.



(h) Engage the 2 clips.

NOTICE:

- Securely engage the lower side claws of the air cleaner case.
- Check if the right and left locating lugs of the air cleaner case do not get into the opposite air cleaner case.

Text in Illustration

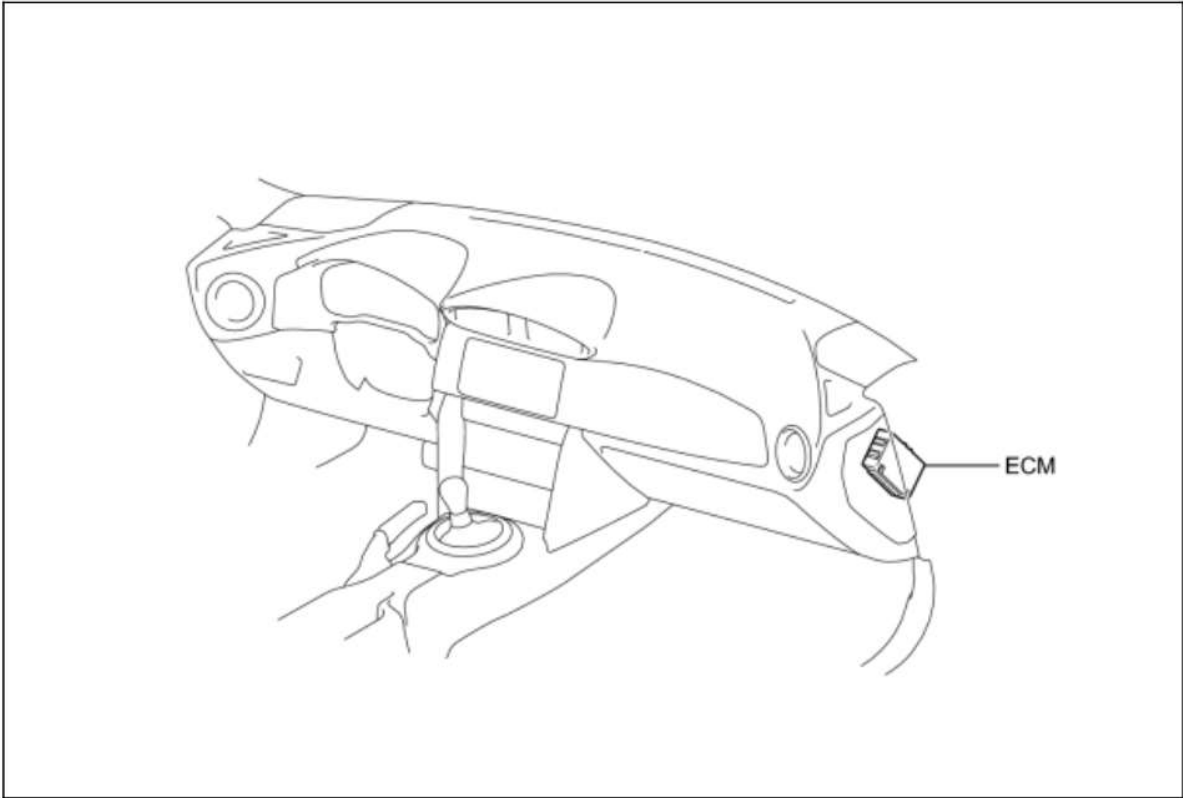
*1	Locating Lugs
----	---------------



Last Modified: 3-27-2012	6.4 R	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000VDM01FX
Title: FA20 INTAKE / EXHAUST: INTAKE SYSTEM: PARTS LOCATION (2013 FR-S)		

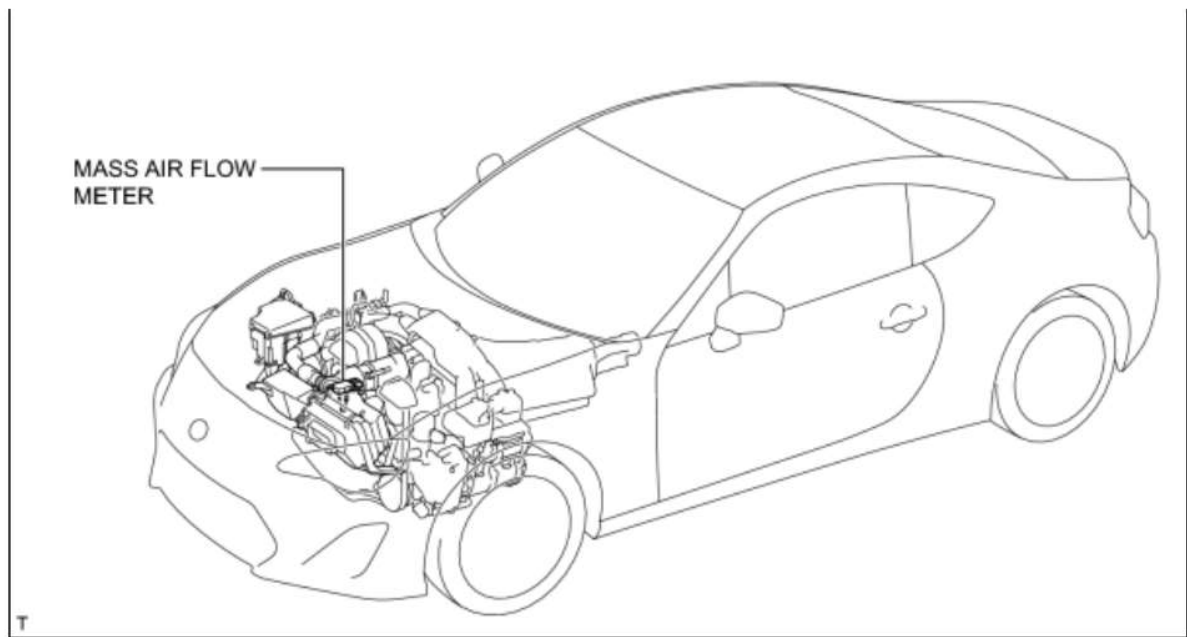
PARTS LOCATION

ILLUSTRATION

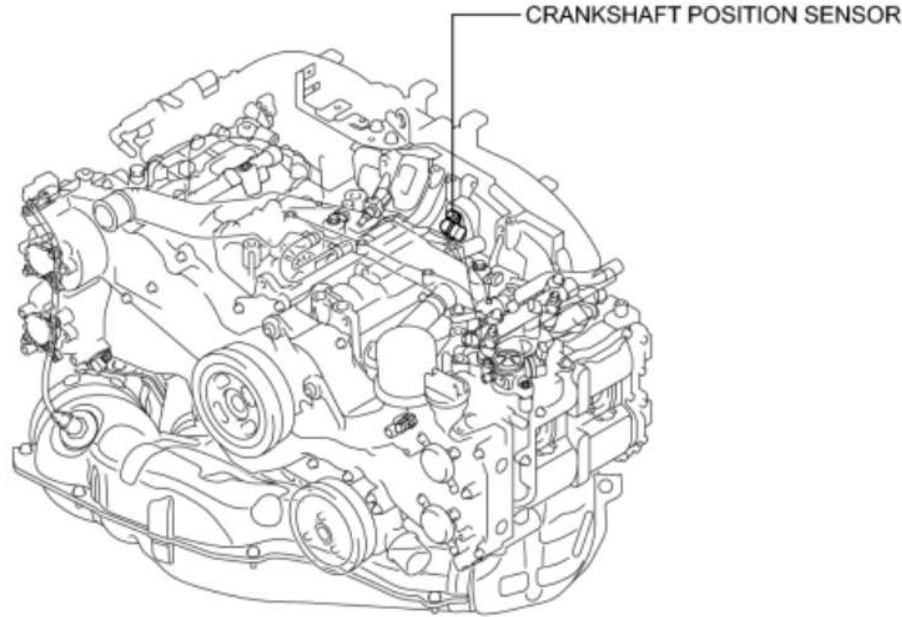
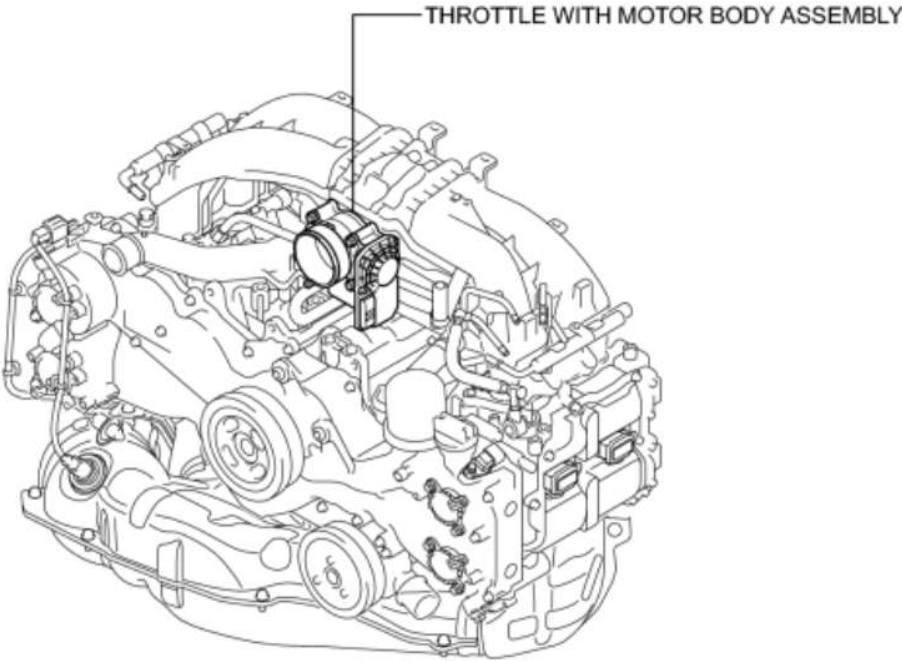


ILLUSTRATION

cardiagn.com



ILLUSTRATION

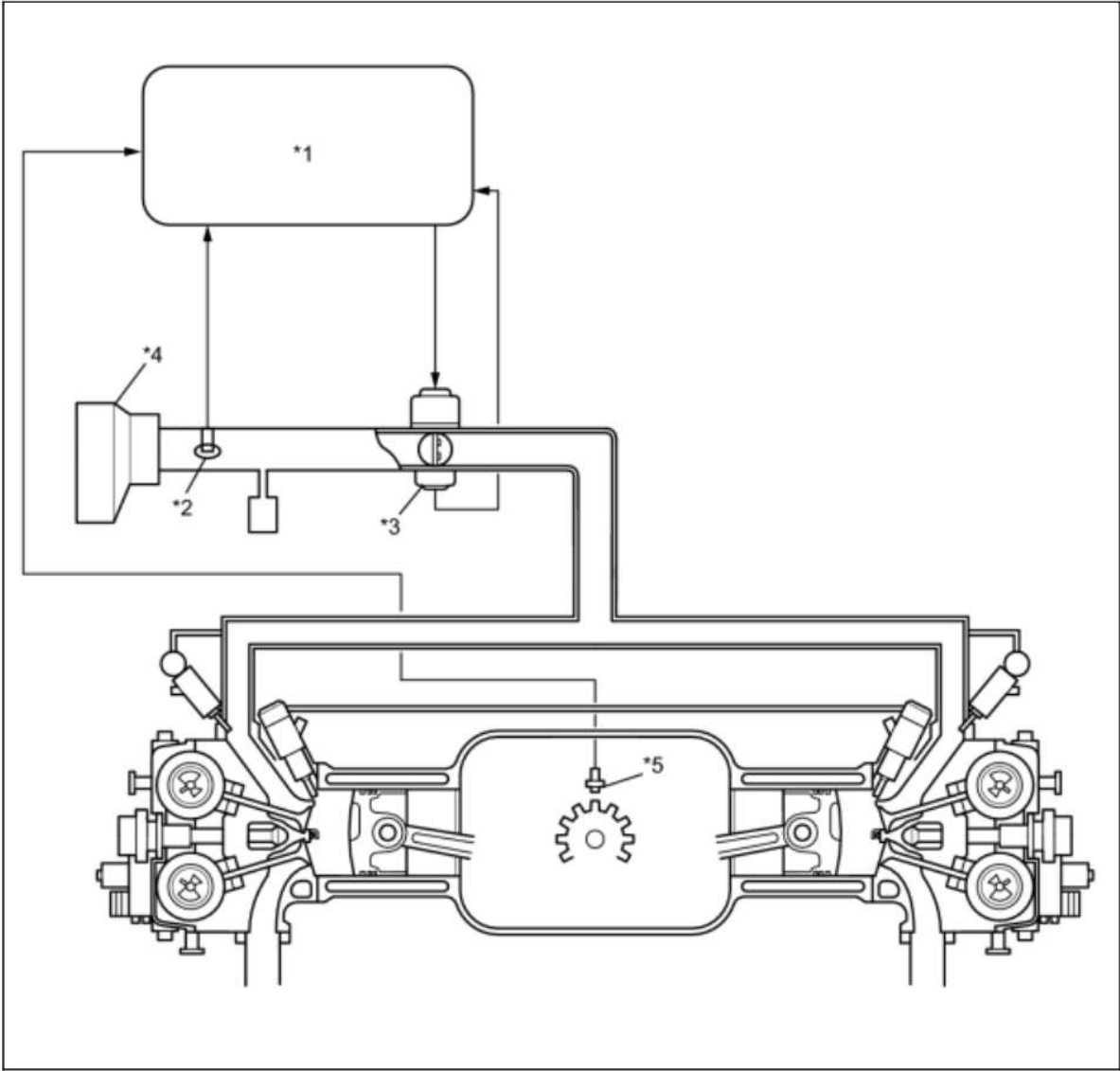


T

Last Modified: 3-27-2012	6.4 U	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000PE701HX
Title: FA20 INTAKE / EXHAUST: INTAKE SYSTEM: SYSTEM DIAGRAM (2013 FR-S)		

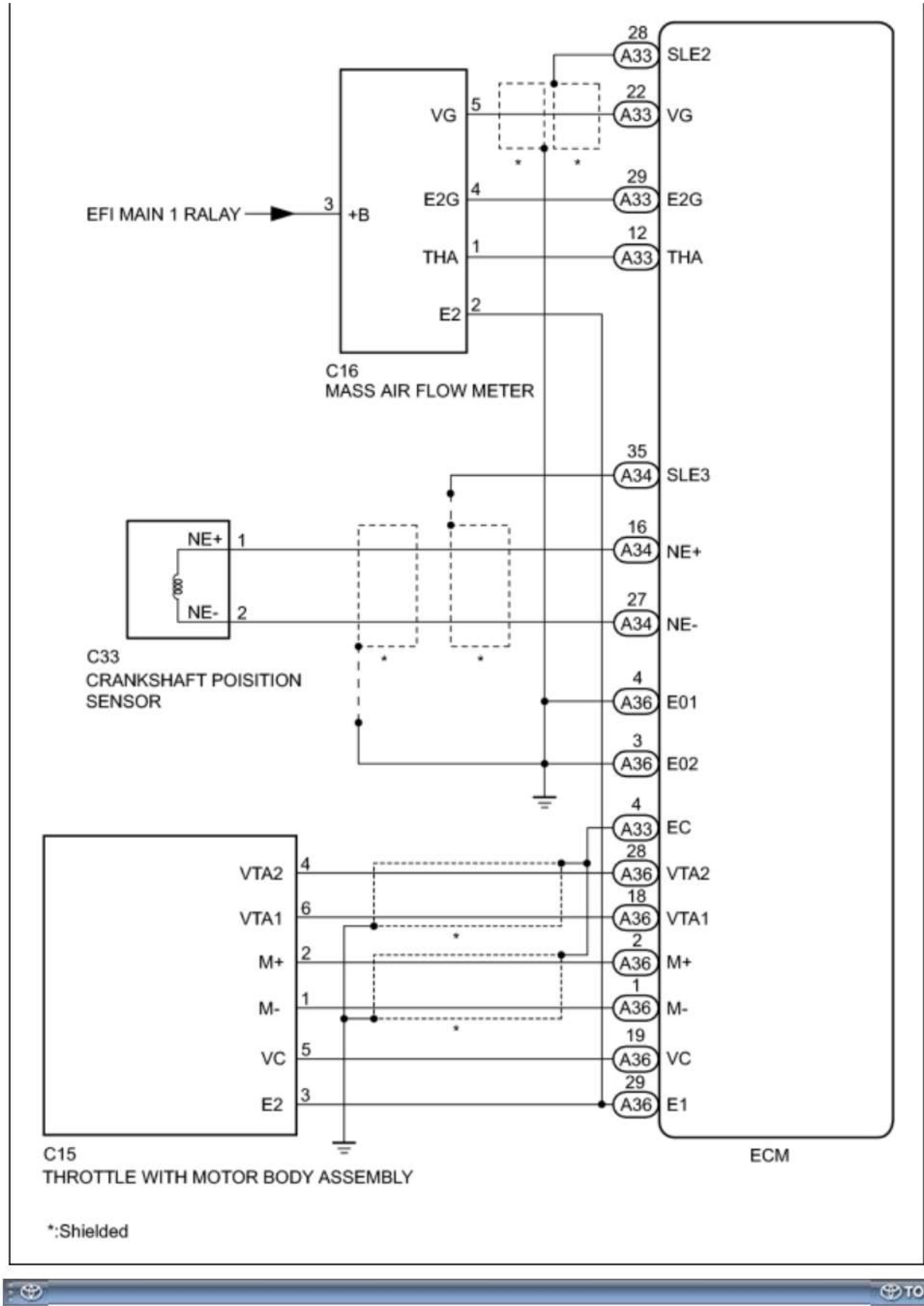
SYSTEM DIAGRAM

1. INTAKE AIR CONTROL SYSTEM VALVE DIAGRAM



Text in Illustration

*1	ECM	*2	Mass Air Flow Meter
*3	Throttle with Motor Body Assembly	*4	Air Cleaner
*5	Crankshaft Position Sensor	-	-



cardiagn.com