

SECTION 303-12: Intake Air Distribution and Filtering
REMOVAL AND INSTALLATION

2014 F-150 Workshop Manual
Procedure revision date: 10/25/2013

Intake Air System Components — Exploded View

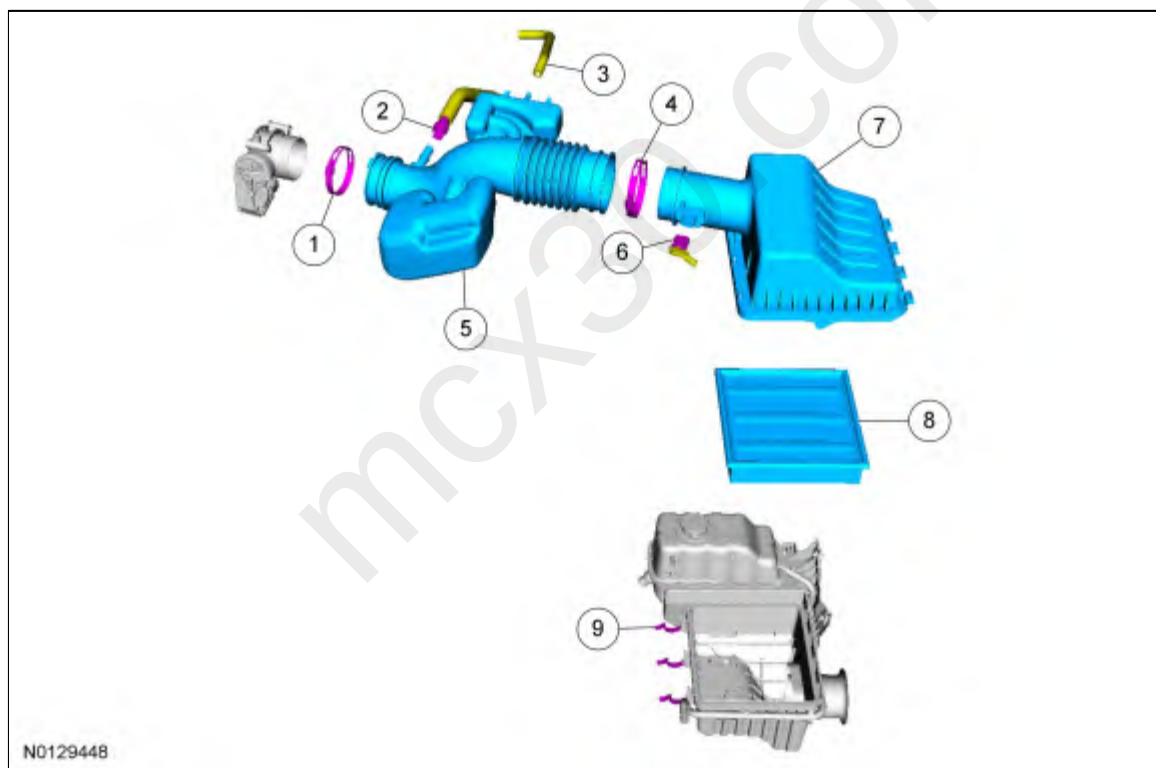
3.7L Air Cleaner (ACL) Assembly

NOTICE: Fully seat the Air Cleaner (ACL) element into the ACL housing. Failure to do so will result in unusual engine noise.

NOTE: Disconnect the crankcase vent hose quick connect coupling from the air cleaner outlet pipe as necessary. Refer to [Section 310-00](#).

NOTE: Securely seal the ACL outlet pipe to prevent unmetered air from entering the engine.

NOTE: The ACL housing is part of the degas bottle assembly. Refer to [Section 303-03](#).



Item	Part Number	Description
1	—	Air Cleaner (ACL) outlet pipe-toThrottle Body (TB) clamp - 4 Nm (35 lb-in) (part of 9B659)
2	—	Crankcase vent hose quick connect coupling (part of 6758)
3	9C490	Vacuum hose
4	—	<u>ACL</u> -to- <u>ACL</u> outlet pipe clamp - 4 Nm (35 lb-in) (part

		of 9B659)
5	9B659	<u>ACL</u> outlet pipe
6	—	Mass Air Flow (MAF) sensor electrical connector (part of 12A581)
7	9661	<u>ACL</u> upper tray
8	9601	<u>ACL</u> element
9	9628	Air cleaner tray retaining clips (3 required)

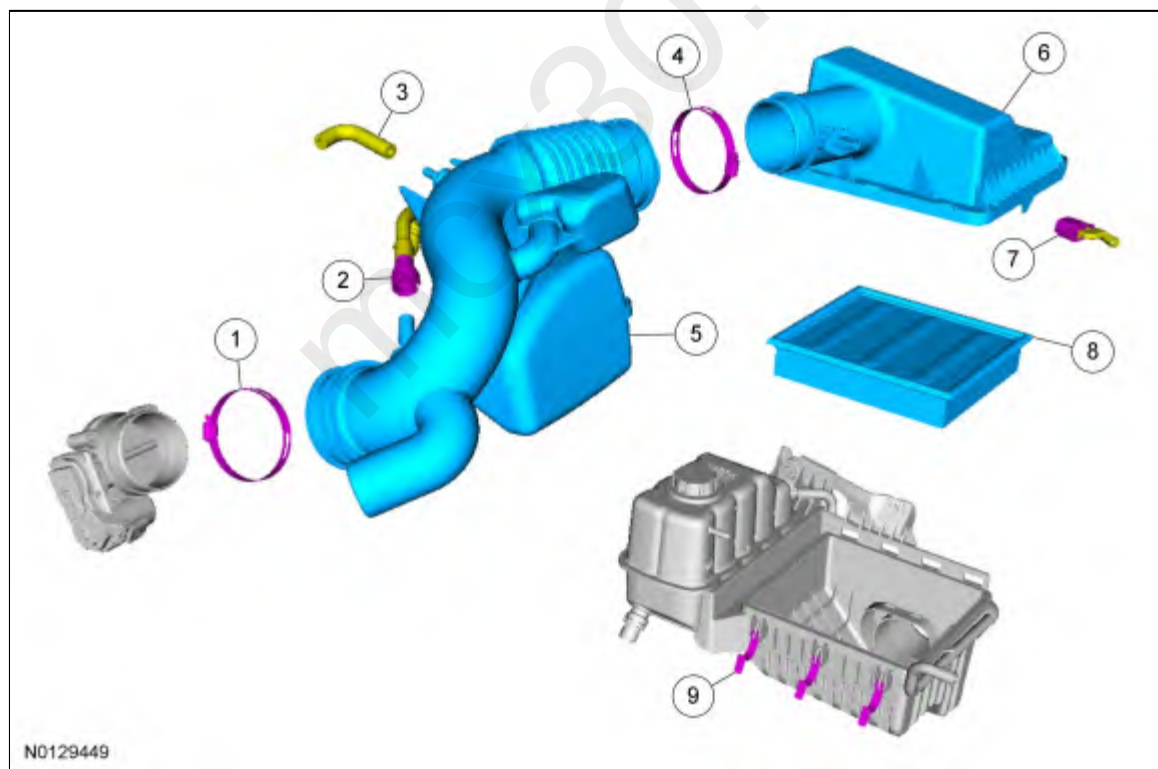
5.0L Air Cleaner (ACL) Assembly

NOTICE: Fully seat the Air Cleaner (ACL) element into the ACL housing. Failure to do so will result in unusual engine noise.

NOTE: Disconnect the crankcase vent hose quick connect coupling from the air cleaner outlet pipe as necessary. Refer to [Section 310-00](#).

NOTE: Securely seal the ACL outlet pipe to prevent unmetered air from entering the engine.

NOTE: The ACL housing is part of the degas bottle assembly. Refer to [Section 303-03](#).



Item	Part Number	Description
1	—	Air Cleaner (ACL) outlet pipe-to-Throttle Body (TB) clamp - 4 Nm (35 lb-in) (part of 9B659)

2	6758	Crankcase vent hose
3	9C490	Vacuum hose
4	—	<u>ACL</u> -to- <u>ACL</u> outlet pipe clamp - 4 Nm (35 lb-in) (part of 9B659)
5	9B659	<u>ACL</u> outlet pipe
6	9661	<u>ACL</u> upper tray
7	—	Mass Air Flow (MAF) sensor electrical connector (part of 12A581)
8	9601	<u>ACL</u> element
9	9628	Air cleaner tray retaining clips (3 required)

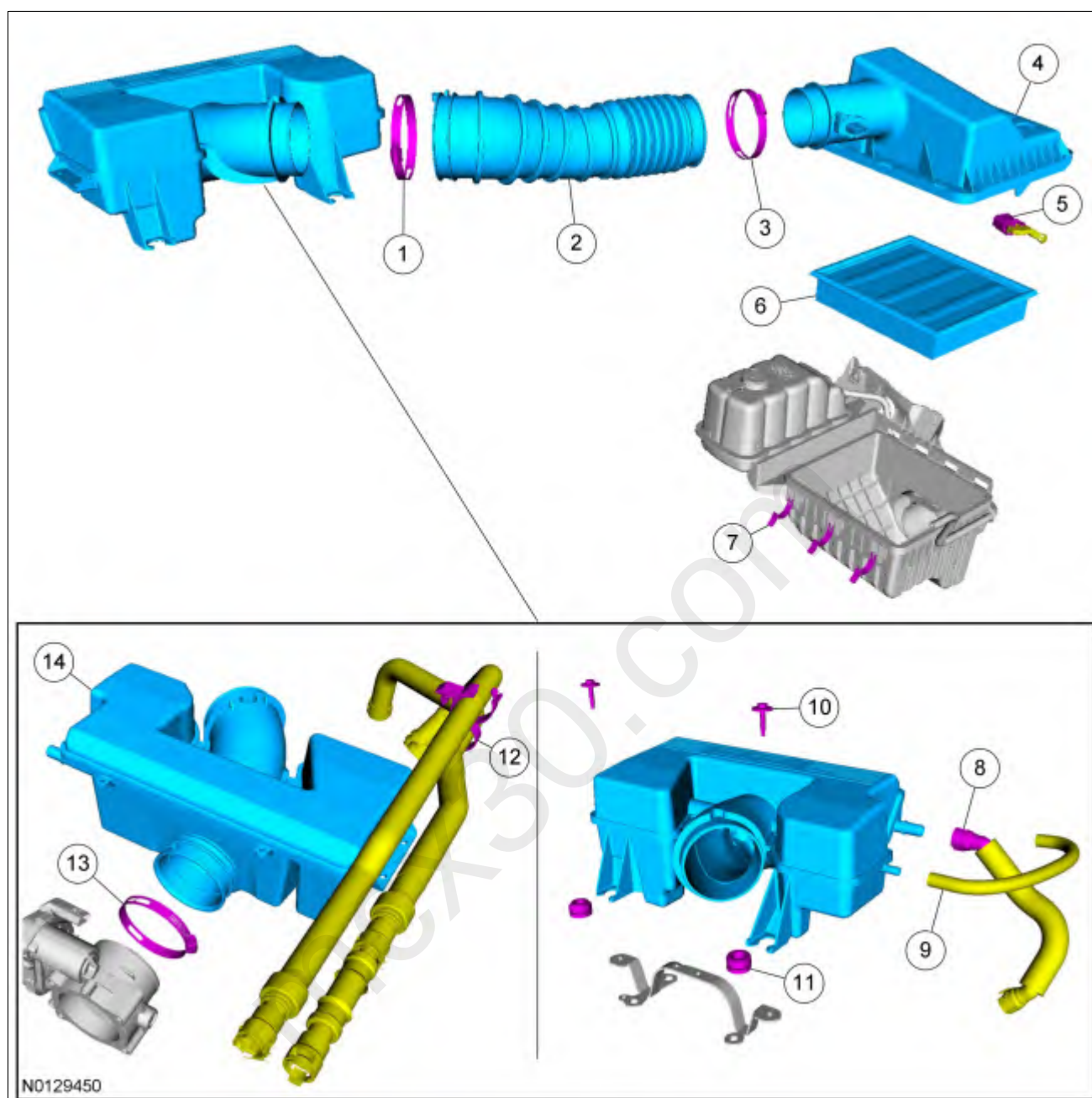
6.2L Air Cleaner (ACL) Assembly

NOTICE: Fully seat the Air Cleaner (ACL) element into the ACL housing. Failure to do so will result in unusual engine noise.

NOTE: Disconnect the crankcase vent hose quick connect coupling from the resonator as necessary. Refer to [Section 310-00](#).

NOTE: Securely seal the ACL outlet pipe to prevent unmetered air from entering the engine.

NOTE: The ACL housing is part of the coolant expansion tank assembly. Refer to [Section 303-03](#).



Item	Part Number	Description
1	—	Air Cleaner (ACL) outlet pipe-to-resonator clamp - 4 Nm (35 lb-in) (part of 9B659)
2	9B659	<u>ACL</u> outlet pipe
3	—	<u>ACL</u> -to- <u>ACL</u> outlet pipe clamp - 4 Nm (35 lb-in) (part of 9B659)
4	9661	<u>ACL</u> upper tray
5	—	Mass Air Flow (MAF) sensor electrical connector (part of 12A581)
6	9601	<u>ACL</u> element

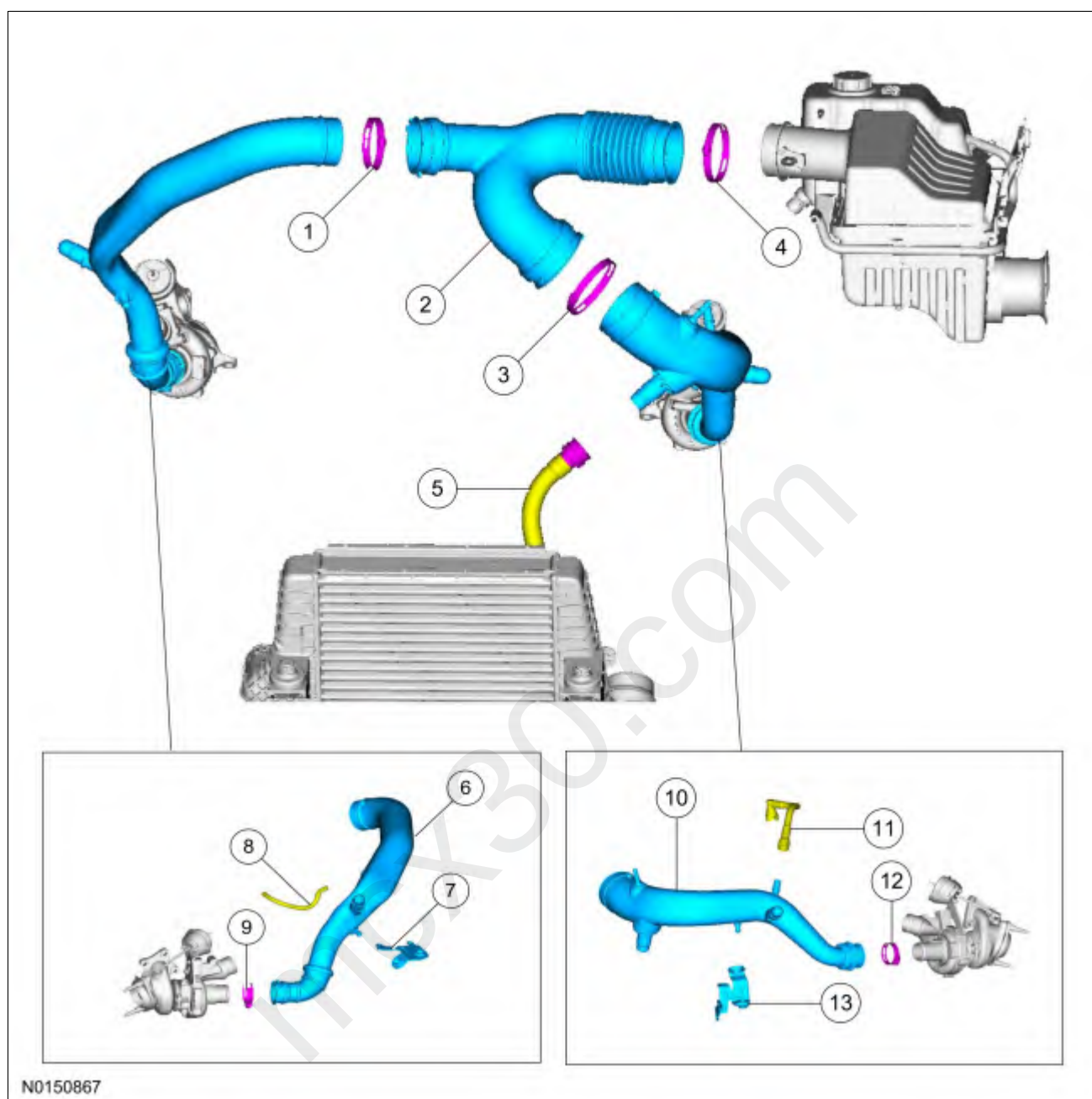
7	9628	Air cleaner tray retaining clips (3 required)
8	—	Crankcase ventilation tube quick connect coupling (part of 6758)
9	9C490	Brake booster vacuum hose
10	W707522	Resonator bolts - 10 Nm (89 lb-in)
11	9P686	Resonator insulator
12	8W278	Heater hose retainer
13	—	Resonator-to-throttle body clamp - 4 Nm (35 lb-in) (part of 9F763)
14	9F763	Resonator

3.5L GTDI Air Cleaner (ACL) Assembly and ACL Outlet Pipes

NOTE: Disconnect the fuel vapor management hose and the crankcase vent hose quick connect couplings from the LH ACL pipe-to-turbocharger pipe as necessary. Refer to [Section 310-00](#).

NOTE: Securely seal the ACL outlet pipe and the turbocharger pipes to prevent unmetered air from entering the engine.

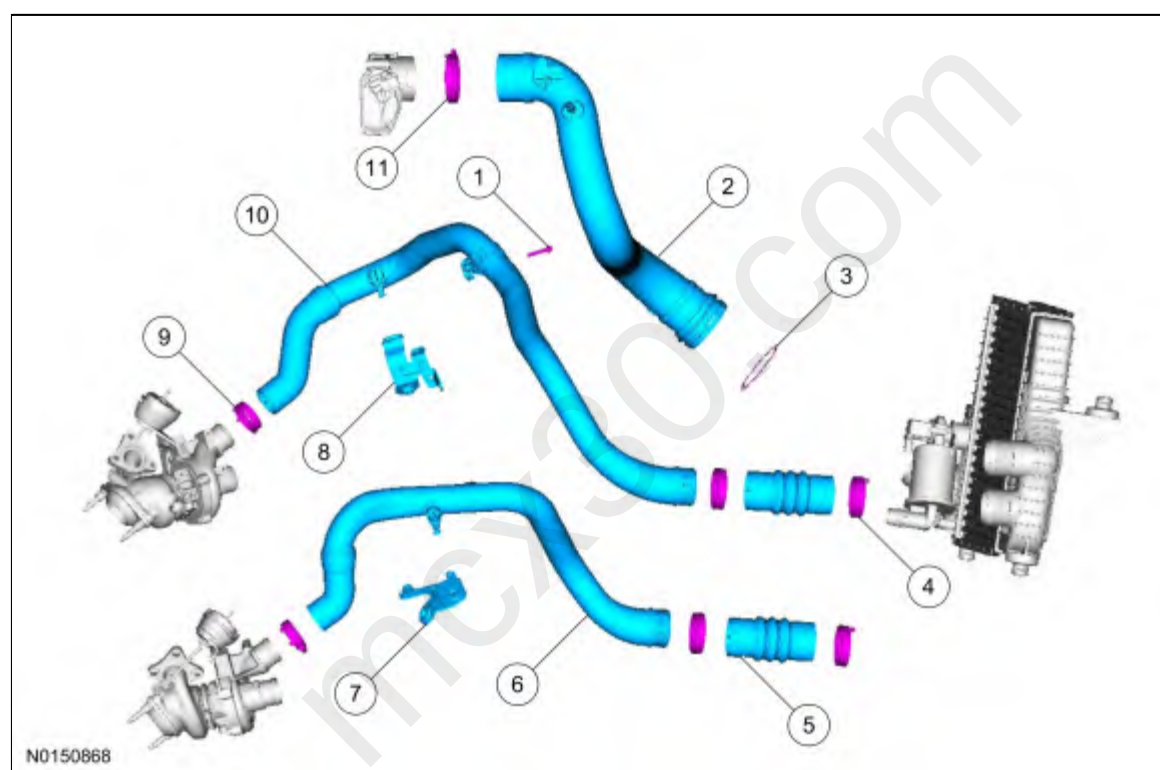
NOTE: The ACL housing is part of the coolant expansion tank assembly. Refer to [Section 303-03](#).



Item	Part Number	Description
1	—	<u>ACL</u> outlet pipe clamp - 5 Nm (44 lb-in) (part of 9C623)
2	9C623	<u>ACL</u> outlet pipe
3	—	<u>ACL</u> outlet pipe clamp - 5 Nm (44 lb-in) (part of 9C623)
4	—	<u>ACL</u> outlet pipe clamp - 5 Nm (44 lb-in) (part of 9C623)
5	9J478	Air bypass hose assembly
6	9B659	RH <u>ACL</u> pipe-to-turbocharger pipe
7	9647	RH <u>ACL</u> and <u>CAC</u> pipe bracket
8	9E499	Vacuum hose

9	—	RH <u>ACL</u> pipe-to-turbocharger pipe clamp - 5 Nm (44 lb-in) (part of 9B659)
10	—	LH <u>ACL</u> pipe-to-turbocharger pipe (part of 9C623)
11	3E675	Crankcase vent tube assembly
12	—	LH <u>ACL</u> pipe-to-turbocharger pipe - 5 Nm (44 lb-in) (part of 9C623)
13	9647	LH <u>ACL</u> and <u>CAC</u> pipe bracket

3.5L GTDI Charge Air Cooler (CAC) and Tubes



Item	Part Number	Description
1	W503280	LH turbocharger-to- <u>CAC</u> pipe bracket bolt - 6 Nm (53 lb-in)
2	6F073	<u>CAC</u> -to-Throttle Body (TB) pipe
3	—	<u>CAC</u> -to- <u>TB</u> pipe spring clip (part of 6F073)
4	—	<u>CAC</u> pipe clamp - 5 Nm (44 lb-in) (part of 6C646) (4 required)
5	—	<u>CAC</u> tube flex joint (part of 6C646) (4 required)
6	6C646	LH turbocharger-to- <u>CAC</u> pipe
7	9647	RH <u>ACL</u> and <u>CAC</u> pipe bracket
8	9647	LH <u>ACL</u> and <u>CAC</u> pipe bracket

9	—	Turbocharger-to- <u>CAC</u> pipe clamp - 5 Nm (44 lb-in) (part of 9C623) (2 required)
10	6C646	RH turbocharger-to- <u>CAC</u> pipe
11	—	<u>CAC</u> -to- <u>IB</u> pipe clamp - 5 Nm (44 lb-in) (part of 6F073)

1. Refer to the procedures and/or exploded views in this section for any Warnings, Notices, Notes, Materials, Specifications, and Special Tools. Items in the exploded views may not be listed in order of removal.
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