

Airaid

INSTALLATION INSTRUCTIONS

514-343 704-452 Airaid Oiled Media Filter

515-343 705-452 SynthaMax Dry Media Filter

2017-19 TOYOTA HIGHLANDER

2017-22 LEXUS RX350

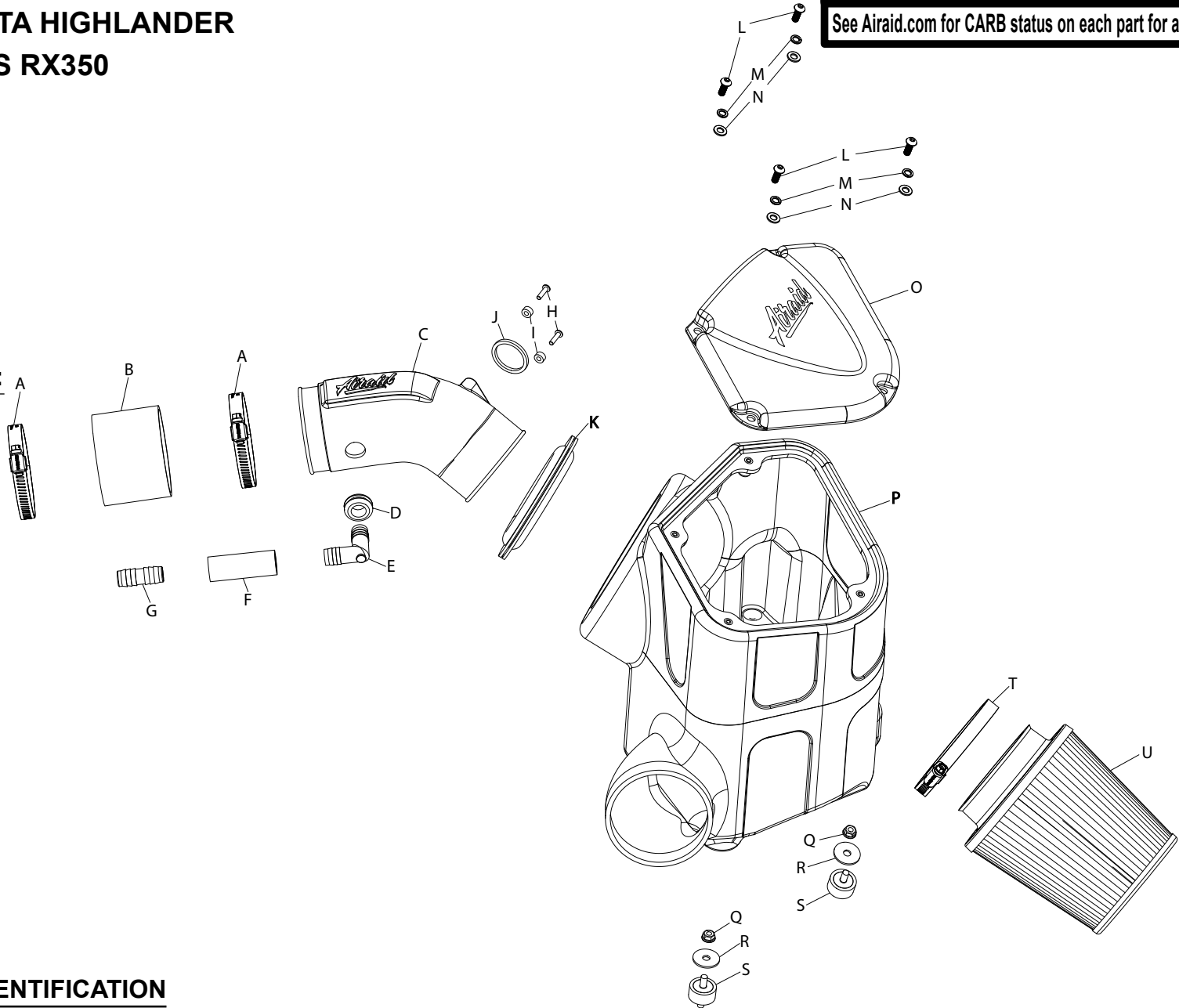
V6-3.5L

NOT LEGAL FOR SALE OR USE ON ANY POLLUTION CONTROLLED MOTOR VEHICLE IN CALIFORNIA OR STATES ADOPTING CALIFORNIA EMISSION PROCEDURES.

See Airaid.com for CARB status on each part for a specific vehicle

TOOLS NEEDED:

Ratchet
Extension
8mm socket
10mm socket
Flathead screw driver
Phillips screw driver
3mm allen key
pliers.



COMPONENT IDENTIFICATION

Description	Qty.	Part #	Description	Qty.	Part #	Description	Qty.	Part #
A HOSE CLAMP; #52	2	08610	H SCREW; M4-.7 X 16MM BTNHD	2	07793	O AIR BOX LID, CLEAR	1	088097
B HOSE; 3.25"ID X 2"L BLK	1	5-326	I SPACER; .187"L NYLON	2	KITSPACER01	P AIR BOX; (PM)	1	087517
C INTAKE TUBE; (PL)	1	087516	J GASKET; 1/8" PORON	1	09013	Q NUT; M6 HEX, SERRATED	2	444.460.04
D GROMMET; 9/16"ID - 1.125"OD	1	KITGRMT02	K EDGE TRIM; (15"L)	1	102474	R WASHER; 1"ID X 1/4" HOLE	2	08160
E VENT; 90 DEG, 5/8" HOSE	1	08072	L BOLT; M6-1 X 12MM BTNHD	4	07794	S STUD; M6-1.00 RUBBER	2	07027
F HOSE; 5/8"ID X 2"L	1	5-7002	M WASHER; M6 SPLIT LOCK	4	1-3025	T HOSE CLAMP; #60	1	08624
G FITTING; VENT 5/8"OD BARB	1	08048	N WASHER; 6MM FLAT	4	08269	U AIR FILTER	1	704/705-452

Full color instructions can be viewed on our web site at Airaid.com. If you need any assistance please call 1-800-498-6951 to speak with a representative in our Customer Service Center before returning the product.

TO START:

1. Turn off the ignition and disconnect the negative battery cable.

NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied with your owner's manual. In the event your vehicles anti-theft code cannot be recovered, contact an authorized dealership to obtain your vehicles anti-theft code.



2. Remove the plastic retainer clips that secure the upper valence.



3. Remove the upper valence from the vehicle.

Continued...



4. Remove the two bolts that secure the fresh air intake duct to the core support.



5. Loosen the hose clamp that secures the factory intake hose to the throttle body.



6. Loosen the two bolts that secure the factory air filter housing to the vehicle.



7. Disconnect the mass air sensor electrical connection and separate the harness from the air filter housing.



8. Release the spring clamp securing the CCV hose to the factory intake hose and then disconnect the CCV hose from the intake hose.



9. Disconnect the intake tube from the throttle body.



10. Lift up and then remove the complete stock intake system from the vehicle.



11. Remove the two screws securing mass air sensor and then remove the sensor from the air filter housing.



12. Using the two provided spacers, bolts and gasket install the mass air sensor into the AIRAID intake tube.



13. Install the provided grommet into the AIRAID intake tube as shown. Assemble the provided CCV fittings and hose in the order shown.



14. Install the CCV assembly into the AIRAID intake tube as shown.



15. Install the provided edge trim into the AIRAID air filter housing as shown. Some trimming of the edge trim will be necessary.



16. Install the two provided rubber mounted studs onto the factory air filter housing mounting locations as shown.



17. Install the provided coupler onto the throttle body and secure with the provided hose clamp.



18. Install the AIRAID air filter housing into the vehicle so that the mounting studs protrude through the bottom, secure the housing with the provided hardware.

Continued...



19. Pass the mass air sensor wiring harness through the hole in the air filter housing, then pass the AIRAID intake tube through the air filter housing from the inside and insert it into the coupler on the throttle body.



20. Reconnect the mass air sensor electrical connection.



21. Adjust the tube for best fit and then secure with the provided hose clamp.



22. Reinstall the factory fresh air duct and secure with the factory hardware.



23. Connect the factory CCV hose to the assembly installed into the AIRAID intake tube and secure with the factory spring clamp.



24. Install the AIRAID air filter and secure with the provided hose clamp.



25. Install the air filter housing lid and secure with the provided hardware.



26. Double check your work!

Make sure there is no foreign material in the intake path. Make sure all clamps, hoses, bolts, and screws are tight. Double check the hood clearance!
Reconnect the negative battery cable!

Thank you for purchasing the Airaid Intake System. Contact Airaid @ (800) 498-6951 8:00 AM - 5:00 PM MST weekdays for questions regarding fit or instructions that are not clear to you. Your Airaid Intake System was carefully inspected and packaged. Check that no parts are missing, or were damaged during shipping. If any parts are missing, contact Airaid. The air filter element is protected from direct exposure to water and debris; care should be taken not to drive through deep water. **WATER INGESTION IS THE DRIVERS RESPONSIBILITY!** The air filter is reusable and should be cleaned periodically.

For your Oiled media filter we offer the Airaid Tune Up Kit!



P/N 790-551 Aerosol Spray
P/N 790-550 Squeeze Spray



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SynthaMax

Synthamax Air Filters do not require oil. Service air filter as needed by cleaning with common non-petroleum all-purpose household cleaner and water. Simple Green®, Formula 409® or equivalent works great. Apply cleaner to outside of air filter and allow to soak. Then flush filter clean from the inside out with a garden hose and repeat steps if necessary. Do not apply high pressure water or air to clean filter. Allow filter to air dry and reinstall.