

## Automotive & Powersports THE FACTS ABOUT YOUR INTAKE & AIR

# ISO 5011 Tested to Make Sure You Maximize Airflow While Still Protecting Your Engine.

Part Number: 75-5095, 75-5095D Description: Performance Intake Kit & Filter Vehicle Applications: 2005 - 2011 Toyota Tacoma 4.0L **Test Date:** 03/02/17 **Test Report #:** 3, 4, 5, 6, 7, 8

#### **TECHNICAL BULLETIN**

There is a lot of misinformation in the marketplace. S&B publishes specific test results for each of our intakes & filters as shown below, so you can make an informed decision. Remember, improving your airflow is only good if your engine is still protected. That's the S&B difference!

#### FACT: S&B Flows 65.58% Better than Stock

In tests performed in our climate controlled laboratory according to the ISO5011 Test Standard, S&B's intake kit (and filter) had significantly lower restriction (better airflow) than the stock intake system. See the graph on the next page.

## WATCH OUT: Some competitors over state airflow.

If they state that their filter will flow, lets say 1000 cfm, without stating at what restriction level, they are trying to mislead you.

Description	% S&B Flowed Better than Stock (tested @ 294 cfm)
S&B Intake w/ Cleanable Filter	65.58%
S&B Intake w/ Dry Filter	65.27%

#### **TEST CONDITIONS**

Barometric Pressure	28.98
Airflow Setpoint	294 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13228C
Dust Feed Rate (grams/minute)	8.33

## FACT: S&B Protects Your Engine

S&B tests at the highest rated CFM for your vehicle when determining the efficiency rate (amount of dust the filter stops), so that we can be sure that your engine will be protected.

Description	Efficiency Rate (tested @ 294 cfm)
Stock	99.68%
S&B Intake w/ Cleanable Filter	99.37%
S&B Intake w/ Dry Filter	99.66%

## WATCH OUT: Some

#### Competitors Use the Same Efficiency Rates for Multiple Part Numbers.

Many send one filter off to a lab to be tested at a low cfm and then publish this efficiency rate for all of their part numbers.





## **Air Filter Restriction Test Report**

Test #: 447 Sample #: 3 Filter #: 17801-0P010 Housing #: Date Code: Operator: SD Report Date: 3/2/2017 Filter Mfg.: Housing Mfg.:



Test Description: STOCK INTAKE AND FILTER, NO CCV, NO SENSORS, FILTER# 17801-0P010

		Test Conditions		
Barometric Pressure: Air Flow Type: Number of Pleats: Flow Direction:	29.05517 in. Hg SCFM	Relative Humidity: Temperature: Pleat Depth:	49 % 69 deg. F in.	



Air Flow Cu	irve Data
Flow Rate	Differential Pressure
147	3.65
220	7.65
293	13.13
366	20.21
441	29.08

## **Air Filter Restriction Test Report**

Test #: 447 Sample #: 5 Filter #: KF-1053 Housing #: 75-5095/75-5100 Date Code: Operator: SD Report Date: 3/2/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5095/75-5100 PRODUCTION KIT, NO SENSORS, NO CCV, FENDER SEAL INSTALLED, LID INSTALLED KF-1053

		Test Conditions		
Barometric Pressure: Air Flow Type: Number of Pleats: Flow Direction:	29.0449 in. Hg SCFM	Relative Humidity: Temperature: Pleat Depth:	51 % 68 deg. F in.	



AIr Flow C	urve Data
Flow Rate	Differential Pressure
147	1.27
220	2.61
294	4.52
367	6.99
440	10.03

## **Air Filter Restriction Test Report**

Test #: 447 Sample #: 7 Filter #: KF-1053D Housing #: 75-5095/75-5100 Date Code: Operator: SD Report Date: 3/2/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5095/75-5100 PRODUCTION KIT, NO SENSORS, NO CCV, FENDER SEAL INSTALLED, LID INSTALLED KF-1053D

		Test Conditions		
Barometric Pressure: Air Flow Type: Number of Pleats: Flow Direction:	29.04387 in. Hg SCFM	Relative Humidity: Temperature: Pleat Depth:	51 % 68 deg. F in.	



Air Flow Cur	ve Data
Flow Rate	Differential Pressure
147	1.29
221	2.66
294	4.56
366	7.00
440	10.08

## Air Filter Full Life Efficiency Test Report

Test #: 447 Sample #: 4 Filter #: 17801-0P010 Housing #: Date Code: Operator: SD Report Date: 3/2/2017 Filter Mfg.: Housing Mfg.:



Test Description: STOCK INTAKE AND FILTER, NO CCV, NO SENSORS, FILTER# 17801-0P010

		Tes	t Conditior	S			
Barometric Pressure:	29.048 in. Hg			Relative	Humidity:	49	%
Air Flow Setpoint:	294 SCFM			Тур	be of Dust:	A4 COARSE	
Test Procedure:					Batch #:	13228C	
Air Flow Type:	SCFM			Ter	nperature:	69	deg. F
Test Endpoint:	10 in. H2O			Initial	Add Rate:	NaN	g/min
Number of Pleats:			A	ccumulative	Add Rate:	8.33	g/min
Flow Direction:				PI	eat Depth:		in.
Initial Delta P	13.21 in. H2O	Te	est Results	Accumulative	e Capacity: Test Time:	393.00 47.54	g min
		Initial		Accumulative	; 		
	<u> </u>		Blanket		Blanket		
	Start	+		3982.70	1/1.36		
	End	+		4375.70	172.63		
	Gain			393.00	1.27		
	Efficiency	<u> </u>		99.68%			

Standard Restriction

Pressure Differential



Dust Loading	J Curve Data
Dust Fed (g)	Pressure ("H2O)
0	13.043
8.126	13.379
16.93	13.407
25.553	13.397
33.586	13.447
41.706	13.521
50	13.608
58.204	13.644
66.591	13.612
75.303	13.761
83.554	13.89
91.67	13.902
99.788	14.096
108.164	14.159
116.653	14.399
124.977	14.41
133.872	14.564
142.476	14.732
150.735	15.039
158.927	15.01
167.173	15.023
175.879	15.211
183.903	15.323
192.156	15.423

## Air Filter Full Life Efficiency Test Report

Test #: 447 Sample #: 6 Filter #: KF-1053 Housing #: 75-5095/75-5100 Date Code: Operator: SD Report Date: 3/2/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5095/75-5100 PRODUCTION KIT, NO SENSORS, NO CCV, FENDER SEAL INSTALLED, LID INSTALLED KF-1053

Barometric Pressure:	29.056 in. Hg	Relative Humidity:	51 %	
Air Flow Setpoint:	294 SCFM	Type of Dust:	A4 COARSE	
Test Procedure:		Batch #:	13228C	
Air Flow Type:	SCFM	Temperature:	68 deg. F	
Test Endpoint:	10 in. H2O	Initial Add Rate:	NaN g/min	
Number of Pleats:		Accumulative Add Rate:	8.33 g/min	
Flow Direction:		Pleat Depth:	in.	

Initial Delta P	4.37 in. H2O		Accumulative Capacity: Test Time:			285.20 g 34.40 min
Г		Initial		Accumulative	;	
			Blanket		Blanket	
5	Start			4220.90	173.50	
E	End			4506.10	175.30	
	Gain			285.20	1.80	
E	Efficiency			99.37%		

Standard Restriction

Pressure Differential



Dust Loading Curve Data				
Dust Fed (g)	Pressure ("H2O)			
0	4.423			
8.003	4.417			
16.813	4.418			
24.984	4.464			
33.401	4.514			
41.482	4.526			
49.846	4.559			
58.304	4.607			
66.629	4.611			
75.187	4.699			
83.123	4.621			
91.89	4.74			
100.298	4.743			
108.322	4.828			
116.929	4.872			
124.874	4.974			
133.168	5.114			
141.583	5.22			
149.912	5.264			
158.245	5.474			
166.465	5.643			
174.78	5.898			
182.992	6.214			
191.53	6.429			

## Air Filter Full Life Efficiency Test Report

Test #: 447 Sample #: 8 Filter #: KF-1053D Housing #: 75-5095/75-5100 Date Code: Operator: SD Report Date: 3/2/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5095/75-5100 PRODUCTION KIT, NO SENSORS, NO CCV, FILTER SEAL INSTALLED, LID INSTALLED KF-1053D

Barometric Pressure:	29.064 in. Hg	Relative Humidity:	52 %
Air Flow Setpoint:	294 SCFM	Type of Dust:	A4 COARSE
Test Procedure:		Batch #:	13228C
Air Flow Type:	SCFM	Temperature:	68 deg. F
Test Endpoint:	10 in. H2O	Initial Add Rate:	NaN g/min
Number of Pleats:		Accumulative Add Rate:	8.33 g/min
Flow Direction:		Pleat Depth:	in.

Initial Delta P	4.55 in. H2O		Accumulative Capacity: Test Time:			252.50 g 30.00 min
Γ		Initial		Accumulative	;	
			Blanket		Blanket	
S	Start			4245.60	172.63	
E	End			4498.10	173.50	
	Gain			252.50	0.87	
E	Efficiency			99.66%		

Standard Restriction

C Pressure Differential



Dust Loading Curve Data				
Dust Fed (g)	Pressure ("H2O)			
0	4.533			
7.873	4.503			
16.303	4.547			
24.898	4.543			
33.575	4.587			
41.809	4.669			
49.938	4.655			
58.4	4.812			
66.614	4.899			
74.951	5.037			
83.304	5.143			
92.503	5.227			
100.68	5.451			
108.927	5.72			
117.217	5.951			
125.677	6.19			
133.721	6.564			
142.086	6.925			
150.38	7.292			
158.938	7.77			
167.355	8.239			
175.694	8.624			
183.775	9.039			
192.274	9.684			















