

# Automotive & Powersports THE FACTS ABOUT YOUR INTAKE & AIR

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

Part Number: 75–5111, 75–5111D Description: Performance Intake Kit & Filter Vehicle Applications: 2003–2008 Dodge Ram 2500, 3500 5.7L **Test Date:** 08/31/17 **Test Report #:** 1, 2, 3, 4, 6, 7, 8, 9

#### **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 46% 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 @ 386 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	46.00%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	44.40%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	44.67%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	43.33%

#### **TEST CONDITIONS**

Barometric Pressure	28.98
Airflow Setpoint	386 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13240C
Dust Feed Rate (grams/minute)	10.93

#### 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.

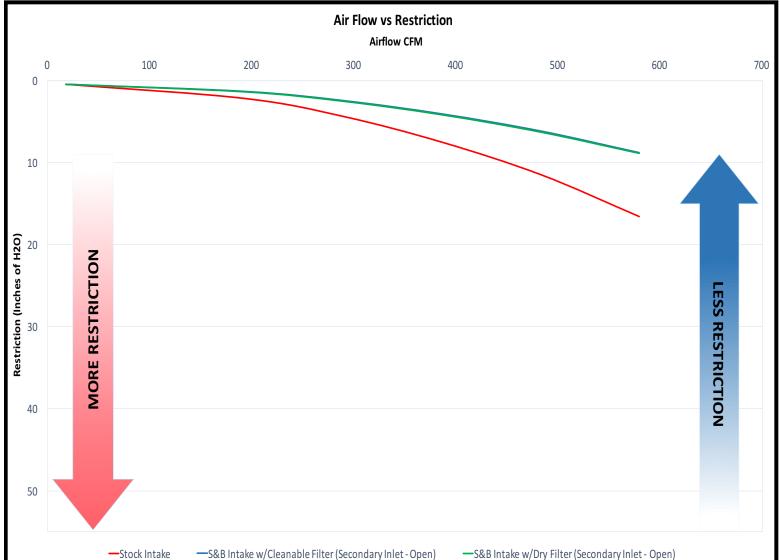
Description	Efficiency Rate (tested @ 386 cfm)
Stock	99.69%
S&B Intake w/ Cleanable Filter	99.34%
S&B Intake w/ Dry Filter	99.61%

# 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.



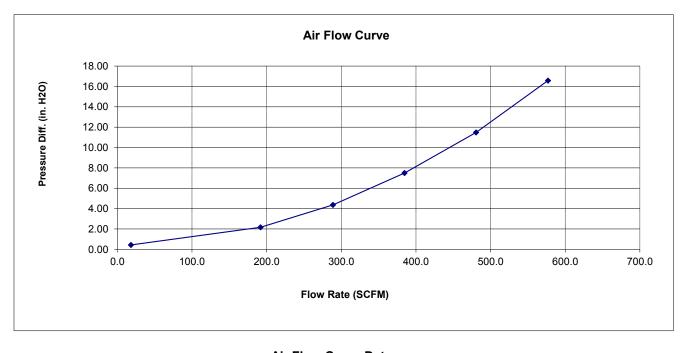


Test #: 459 Sample #: 1 Filter #: 53032404AB Housing #: Date Code: Operator: SD Report Date: 8/31/2017 Filter Mfg.: Housing Mfg.:



Test Description: STOCK INTAKE AND FILTER, NO CCV, NO SENSOR, MOPAR# 53032404AB

Test Conditions				
Barometric Pressure:	28.8916 in. Hg	Relative Humidity:	48 %	
Air Flow Type:	SCFM	Temperature:	68 deg. F	
Number of Pleats: Flow Direction:		Pleat Depth:	in.	



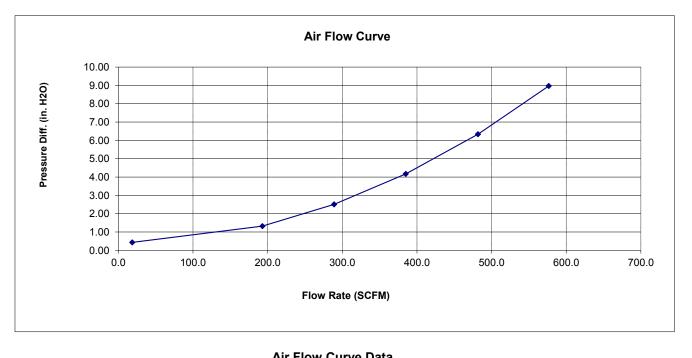
Air Flow Curve Data			
Flow Rate	Differential Pressure		
18	0.43		
192	2.16		
289	4.37		
385	7.50		
481	11.48		
577	16.58		

Operator: SD Report Date: 8/31/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5111 PRODUCTION KIT, NO CCV, NO SENSOR, PLUG INSTALLED, KF-1056

Test Conditions				
Barometric Pressure:	28.78435 in. Hg	Relative Humidity:	49 %	
Air Flow Type:	SCFM	Temperature:	69 deg. F	
Number of Pleats: Flow Direction:		Pleat Depth:	in.	



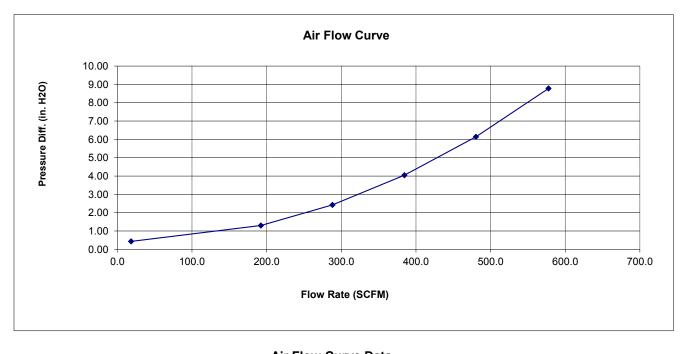
Air Flow Curve Data			
Flow Rate	Differential Pressure		
19	0.43		
193	1.32		
289	2.51		
385	4.17		
482	6.34		
577	8.97		

Operator: SD Report Date: 8/31/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5111 PRODUCTION KIT, NO CCV, NO SENSOR, PLUG REMOVED, KF-1056

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



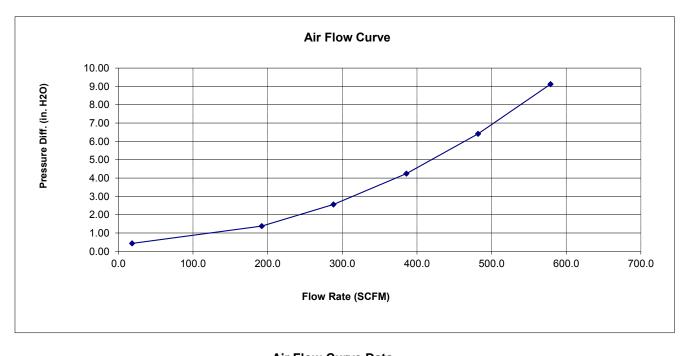
Air Flow Curve Data			
Flow Rate	Differential Pressure		
19	0.43		
192	1.30		
288	2.43		
385	4.05		
481	6.15		
578	8.78		

Operator: SD Report Date: 8/31/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5111 PRODUCTION KIT, NO CCV, NO SENSOR, PLUG INSTALLED, KF-1056D

Test Conditions				
Barometric Pressure: Air Flow Type:	SCFM	Relative Humidity: Temperature:	49 % 68 deg. F	
Number of Pleats: Flow Direction:		Pleat Depth:	in.	



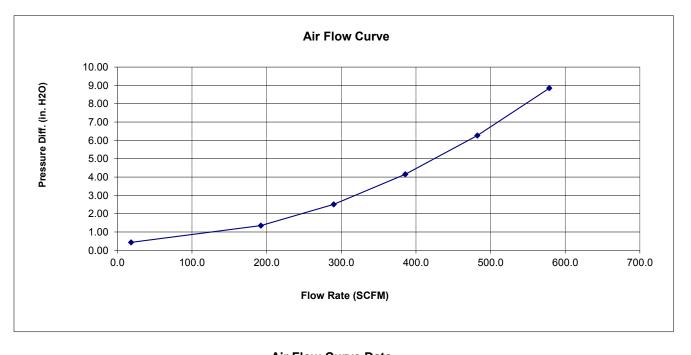
Air Flow Curve Data			
Flow Rate	Differential Pressure		
18	0.43		
192	1.38		
288	2.56		
386	4.25		
482	6.41		
579	9.12		

Operator: SD Report Date: 8/31/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5111 PRODUCTION KIT, NO CCV, NO SENSOR, PLUG REMOVED, KF-1056D

Test Conditions				
Barometric Pressure:	U	Relative Humidity:	48 %	
Air Flow Type:	SCFM	Temperature:	67 deg. F	
Number of Pleats: Flow Direction:		Pleat Depth:	in.	



Air Flow Curve Data				
Flow Rate	Differential Pressure			
18	0.43			
192	1.35			
290	2.51			
386	4.15			
482	6.27			
579	8.85			

# Air Filter Full Life Efficiency Test Report

Test #: 459 Sample #: 2 Filter #: 53032404AB Housing #: Date Code: Operator: SD Report Date: 8/31/2017 Filter Mfg.: Housing Mfg.:

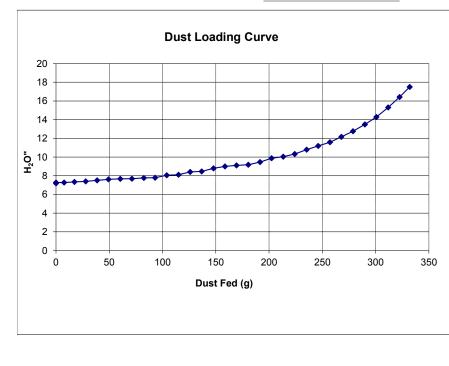


Test Description: STOCK INTAKE AND FILTER, NO CCV, NO SENSOR, MOPAR #53032404AB

		Tes	t Condition	S			
Barometric Pressure:	28.895 in. Hg			Relative	Humidity:	50	%
Air Flow Setpoint:	386 SCFM			Ту	be of Dust:	A4 COARSE	
Test Procedure:					Batch #:	13240C	
Air Flow Type:	SCFM			Ter	nperature:	68	deg. F
Test Endpoint:	10 in. H2O			Initial	Add Rate:	NaN	g/min
Number of Pleats:			А	ccumulative	Add Rate:	10.93	g/min
Flow Direction:				PI	eat Depth:		in.
	7 00 1 100		est Results	<i>.</i> .	<b>a</b> "	000 70	
Initial Delta P	7.39 in. H2O		ŀ	Accumulative	e Capacity: Test Time:	322.70 30.87	•
		Initial	Initial Accumulative				
			Blanket		Blanket		
	Start			5299.00	147.16		
	End			5631.70	148.19		
	Gain			332.70	1.03		
	Efficiency			99.69%			

Standard Restriction

C Pressure Differential



Dust Loading Curve Data					
Dust Fed (g)	Pressure ("H2O)				
0	7.271				
7.665	7.268				
17.319	7.342				
27.909	7.392				
38.635	7.497				
49.356	7.609				
60.381	7.662				
71.245	7.679				
82.432	7.766				
93.04	7.792				
103.969	8.053				
114.997	8.107				
126	8.406				
136.805	8.456				
147.776	8.783				
158.573	8.996				
169.467	9.102				
180.545	9.178				
191.504	9.456				
202.342	9.878				
213.303	10.04				
224.102	10.317				
235.258	10.791				
246.137	11.182				

# Air Filter Full Life Efficiency Test Report

Operator: SD Report Date: 8/31/2017 Filter Mfg.: Housing Mfg.:

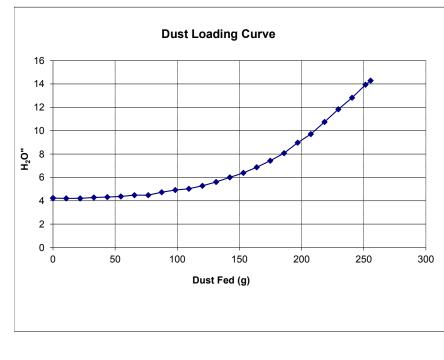


Test Description: 75-5111 PRODUCTION KIT, NO CCV, NO SENSOR, PLUG INSTALLED, KF-1056D

		Tes	st Condition	IS			
Barometric Pressure:	28.844 in. Hg			Relative	Humidity:	50	%
Air Flow Setpoint:	386 SCFM			Ту	pe of Dust:	A4 COARSE	
Test Procedure:					Batch #:	13240C	
Air Flow Type:	SCFM			Ter	nperature:	68	deg. F
Test Endpoint:	10 in. H2O			Initial	Add Rate:		g/min
Number of Pleats:			۵	ccumulative	Add Rate:	10.93	g/min
Flow Direction:				PI	leat Depth:		in.
Initial Delta P	4.33 in. H2O		est Results	Accumulative		256.40	•
					Test Time:	23.40	min
		Initial	Accumulative				
			Blanket		Blanket		
	Start			6505.60	143.30		
	End			6762.00	144.30		
	Gain			256.40	1.00		
	Efficiency			99.61%			

Standard Restriction

C Pressure Differential



Dust Loading Curve Data					
Dust Fed (g)	Pressure ("H2O)				
0	4.231				
10.655	4.208				
21.831	4.205				
32.852	4.278				
43.667	4.319				
54.588	4.364				
65.579	4.483				
76.657	4.481				
87.497	4.734				
98.401	4.916				
109.282	5.023				
120.256	5.284				
131.252	5.608				
142.2	6.007				
153.137	6.387				
163.898	6.862				
174.808	7.425				
185.943	8.073				
196.846	8.971				
207.479	9.702				
218.483	10.747				
229.57	11.834				
240.557	12.815				
251.436	13.937				

# Air Filter Full Life Efficiency Test Report

Operator: SD Report Date: 8/31/2017 Filter Mfg.: Housing Mfg.:

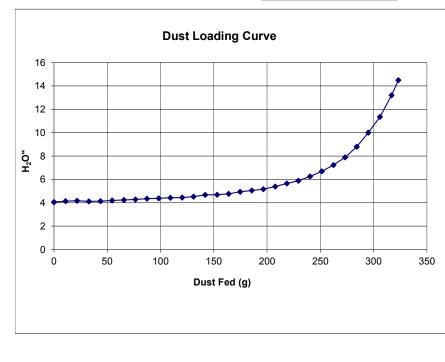


Test Description: 75-5111 PRODUCTION KIT, NO CCV, NO SENSOR, PLUG INSTALLED, KF-1056

		Tes	t Condition	IS			
Barometric Pressure:	28.762 in. Hg			Relative	Humidity:	49	%
Air Flow Setpoint:	386 SCFM			Ту	pe of Dust:	A4 COARSE	
Test Procedure:					Batch #:	13240C	
Air Flow Type:	SCFM			Ter	nperature:	67	deg. F
Test Endpoint:	10 in. H2O			Initial	Add Rate:		g/min
Number of Pleats:			A	ccumulative	Add Rate:	10.93	g/min
Flow Direction:				PI	eat Depth:		in.
Initial Delta P	4.22 in. H2O			Accumulative	e Capacity: Test Time:	322.40 29.59	•
		Initial		Accumulative			
			Blanket		Blanket		
	Start			6589.10	144.30		
	End			6911.50	146.42		
	Gain			322.40	2.12		
	Efficiency			99.34%			

Standard Restriction

Pressure Differential



Dust Loading Curve Data					
Dust Fed (g)	Pressure ("H2O)				
0	4.053				
10.847	4.138				
21.685	4.175				
32.673	4.115				
43.66	4.134				
54.581	4.192				
65.612	4.233				
76.393	4.285				
87.296	4.348				
98.318	4.38				
109.189	4.426				
120.292	4.451				
131.04	4.523				
141.916	4.675				
153.041	4.687				
163.912	4.761				
174.78	4.935				
185.633	5.049				
196.525	5.156				
207.626	5.391				
218.598	5.646				
229.396	5.879				
240.312	6.25				
251.324	6.696				













