

Automotive & Powersports THE FACTS ABOUT YOUR INTAKE & AIR

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

Part Number: 75-5040, 75-5040D Description: Performance Intake Kit & Filter Vehicle Applications: 2003-2008 Dodge Ram 1500 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 45.74% 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 @ 435 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	45.74%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	44.14%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	44.67%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	42.43%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	435 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13240C
Dust Feed Rate (grams/minute)	12.32

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 @ 435 cfm)
Stock	99.75%
S&B Intake w/ Cleanable Filter	99.32%
S&B Intake w/ Dry Filter	99.56%

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 #:
 423

 Sample #:
 1

 Filter #:
 53032404AB

 Housing #:
 2

 Date Code:
 2

Operator: SD Report Date: 8/22/2017 Filter Mfg.: Housing Mfg.:



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

Test Conditions				
Barometric Pressure: 28.7 Air Flow Type: S Number of Pleats: Flow Direction:	5439 in. Hg iCFM	Relative Humidity: Temperature: Pleat Depth:	51 % 68 deg. F in.	



All Flow Curve Data		
Flow Rate	Differential Pressure	
18	0.42	
217	2.63	
325	5.39	
435	9.38	
542	14.62	
651	21.26	

Operator: SD Report Date: 8/22/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5040 PRODUCTION KIT, NO SENSORS, NO CCV, PLUG INSTALLED, KF-1056

Test Conditions				
Barometric Pressure: Air Flow Type: Number of Pleats: Flow Direction:	28.7109 in. Hg SCFM	Relative Humidity: Temperature: Pleat Depth:	48 % 68 deg. F in.	



AIT FIOW CUR	ve Data
Flow Rate	Differential Pressure
18	0.42
217	1.56
326	3.09
435	5.24
543	8.08
650	11.55

Operator: SD Report Date: 8/22/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5040 PRODUCTION KIT, NO SENSORS, NO CCV, PLUG REMOVED, KF-1056

Test Conditions				
Barometric Pressure: Air Flow Type: Number of Pleats:	28.71046 in. Hg SCFM	Relative Humidity: Temperature: Pleat Depth:	46 % 66 deg. F in.	
Flow Direction:				



Air Flow Curve	Data
Flow Rate	Differential Pressure
18	0.42
217	1.53
325	3.01
434	5.09
543	7.83
651	11.21

 Test #:
 423

 Sample #:
 6

 Filter #:
 KF-1056D

 Housing #:
 75-5040

 Date Code:

Operator: SD Report Date: 8/22/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5040 PRODUCTION KIT, NO SENSORS, NO CCV, PLUG INSTALLED, KF-1056D

Test Conditions				
Barometric Pressure: Air Flow Type: Number of Pleats: Flow Direction:	28.69303 in. Hg SCFM	Relative Humidity: Temperature: Pleat Depth:	48 % 68 deg. F in.	



Air Flow Curve Data		
Flow Rate	Differential Pressure	
18	0.42	
217	1.63	
326	3.19	
433	5.40	
542	8.30	
651	11.93	

 Test #:
 423

 Sample #:
 7

 Filter #:
 KF-1056D

 Housing #:
 75-5040

 Date Code:

Operator: SD Report Date: 8/22/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5040 PRODUCTION KIT, NO SENSORS, NO CCV, PLUG REMOVED, KF-1056D

Test Conditions				
Barometric Pressure: Air Flow Type: Number of Pleats: Flow Direction:	28.69201 in. Hg SCFM	Relative Humidity: Temperature: Pleat Depth:	47 % 66 deg. F in.	



Air Flow Curve Data				
Flow Rate	Differential Pressure			
18	0.42			
217	1.60			
325	3.10			
434	5.19			
543	7.97			
652	11.46			

Air Filter Full Life Efficiency Test Report

Test #: 423 Sample #: 2 Filter #: 53032404AB Housing #: Date Code: Operator: SD Report Date: 8/22/2017 Filter Mfg.: Housing Mfg.:



Test Description: STOCK INTAKE AND FILTER, NO CCV, NO SENSORS, 53032404AB

	Test Conditions						
Barometric Pressure:	28.715 in. Hg			Relative	Humidity:	48	%
Air Flow Setpoint:	435 SCFM			Тур	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:			A	ccumulative	Add Rate:	12.32	g/min
Flow Direction:				PI	eat Depth:		in.
Initial Delta P	9.34 in. H2O	To	est Results /	Accumulative	Capacity:	273.70	9
		Test Time: 22.29 min					min
		Initial Accumulative					
	<u> </u>		Blanket		Blanket		
	Start			5306.90	140.92		
	End			5580.60	141.60		
	Gain			273.70	0.68		
	Efficiency			99.75%			

Standard Restriction

Pressure Differential



Dust Loading Curve Data				
Dust Fed (g)	Pressure ("H2O)			
0	9.121			
11.672	9.205			
24.083	9.254			
36.521	9.319			
48.83	9.458			
61.15	9.511			
73.325	9.628			
85.652	9.789			
98.254	9.89			
110.447	10.055			
122.736	10.195			
134.788	10.451			
147.143	10.721			
159.746	11.093			
172.003	11.319			
184.284	11.898			
196.414	12.295			
208.679	12.854			
221.162	13.497			
233.748	14.495			
245.974	15.668			
257.952	17.077			
270.354	18.916			
273.809	19.403			

Air Filter Full Life Efficiency Test Report

 Test #:
 423

 Sample #:
 9

 Filter #:
 KF-1056

 Housing #:
 75-5040

 Date Code:

Operator: SD Report Date: 8/22/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5040 PRODUCTION KIT, NO SENSORS, NO CCV, PLUG INSTALLED, KF-1056

		Tes	t Condition	s			
Barometric Pressure:	28.846 in. Hg			Relative	Humidity:	51	%
Air Flow Setpoint:	435 SCFM			Тур	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:			A	ccumulative	Add Rate:	12.32	g/min
Flow Direction:				Pl	eat Depth:		in.
Initial Delta P	5.33 in. H2O	Te	est Results /	Accumulative	e Capacity: Test Time:	310.50 25.33	g min
		Initial		Accumulative			
	-		Blanket		Blanket		
	Start			6223.50	145.08		
	End			6534.00	147.19		
	Gain			310.50	2.11		
	Efficiency			99.32%			

Standard Restriction

Pressure Differential



Dust Loading Curve Data				
Dust Fed (g)	Pressure ("H2O)			
0	5.164			
11.922	5.168			
24.227	5.135			
36.872	5.279			
49.148	5.225			
61.346	5.298			
73.575	5.389			
85.866	5.411			
98.396	5.438			
110.604	5.548			
123.095	5.584			
135.222	5.757			
147.549	5.787			
159.899	5.982			
172.163	6.124			
184.593	6.264			
196.674	6.546			
209.145	6.915			
221.573	7.263			
233.9	7.707			
246.182	8.183			
258.375	8.993			
270.618	9.852			
283.035	11.031			

Air Filter Full Life Efficiency Test Report

Operator: SD Report Date: 8/22/2017 Filter Mfg.: Housing Mfg.:



Test Description: 75-5040 PRODUCTION KIT, NO SENSORS, NO CCV, PLUG INSTALLED, KF-1056D

		Test	Condition	s			
Barometric Pressure:	28.875 in. Hg			Relative	Humidity:	51	%
Air Flow Setpoint:	435 SCFM			Тур	e 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:	NaN	g/min
Number of Pleats:			Α	ccumulative	Add Rate:	12.32	g/min
Flow Direction:				Pl	eat Depth:		in.
Initial Delta P	5.46 in. H2O	Te	st Results /	Accumulative	Capacity: Test Time:	241.70 19.58	g min
		Initial		Accumulative	1		
			Blanket		Blanket		
	Start			6130.90	144.01		
	End			6372.60	145.08		
	Gain			241.70	1.07		
	Efficiency			99.56%			

Standard Restriction

Pressure Differential



Dust Loading Curve Data				
Dust Fed (g)	Pressure ("H2O)			
0	5.327			
11.527	5.302			
24.053	5.329			
36.481	5.35			
48.931	5.435			
61.268	5.489			
73.692	5.661			
85.825	5.655			
98.084	5.851			
110.399	6.163			
122.798	6.496			
135.306	6.845			
147.539	7.298			
159.885	7.96			
172.159	8.704			
184.372	9.589			
196.64	10.648			
208.985	11.958			
221.507	13.227			
233.652	14.697			
240.598	15.511			















