

Automotive & Powersports

THE FACTS ABOUT YOUR **INTAKE & AIR FILTER**

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

Part Number: 75-5140

Test Date: 2020.07.22

Description: Restriction, C&E Test Report #: 806

Vehicle Applications: 2020 Ford F-250, F350, 6.7L Diesel

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 **39.05%** 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 overstate airflow.

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

Description	% S&B Flowed Better than	Test Conditions		
	Stock (tested @ _580_cfm)	Barometric Pressure	28.7 inHg	
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	39.05%	Airflow Setpoint	580 CFM	
S&B Intake w/ Cleanable Filter		Relative Humidity	52%	
(Secondary Inlet - Closed)	34.91%	Temperature 69 F	69 F	
S&B Intake w/ Dry Filter		Type of Dust	A4 Coarse	
Secondary Inlet - Open	57.4770	Batch #	14057C	
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	33.21%	Dust Feed Rate (grams/minute)	16.42	

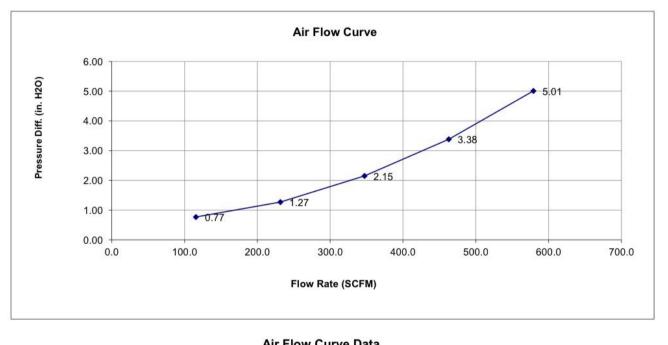
Description	Efficiency Rate (Tested @ _580_cfm)	WATCH OUT: Some Competitors
Stock	99.21%	Use the Same Efficiency Rates for Multiple Part Numbers
S&B Intake w/ Cleanable Filter	99.42%	Many send one filter off to a lab to be tested
S&B Intake w/ Dry Filter	99.54%	at a low cfm and then publish this efficiency rate for all of their part numbers
	Stock S&B Intake w/ Cleanable Filter S&B Intake w/	Stock 99.21% S&B Intake w/ Cleanable Filter 99.42% S&B Intake w/ 99.42%

Test #: 806 Sample #: -02R Filter #: KF-1050 Housing #: Date Code: 2020.07.21 JM 7/23/2020



Test Description: 75-5140 with KF-1050, without Box Plug, without MAF Sensor

	Tes	t Conditions	
Barometric Pressure:	28.69513 in. Hg	Relative Humidity:	55 %
Air Flow Type:	SCFM	Temperature:	70 deg. F
Number of Pleats: Flow Direction:		Pleat Depth:	in.



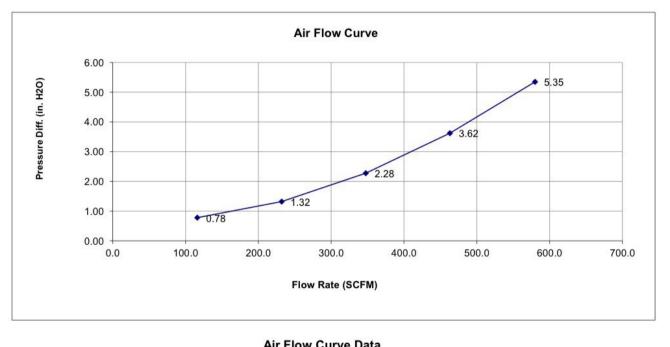
AIT FIOV	v Curve Data
Flow Rate	Differential Pressure
116	0.77
232	1.27
347	2.15
463	3.38
579	5.01

Test #: 806 Sample #: -01R Filter #: KF-1050 Housing #: Date Code: 2020.07.21 JM 7/23/2020



Test Description: 75-5140 with KF-1050, with Box Plug, without MAF Sensor.

	Tes	t Conditions	
Barometric Pressure:	28.70413 in. Hg	Relative Humidity:	55 %
Air Flow Type:	SCFM	Temperature:	70 deg. F
Number of Pleats: Flow Direction:		Pleat Depth:	in.



	v Guive Data
Flow Rate	Differential Pressure
116	0.78
232	1.32
348	2.28
463	3.62
580	5.35

Air Filter Full Life Efficiency Test Report

Test #: 806 Sample #: -07CE Filter #: KF-1050 Housing #: Date Code: 2020.07.22

Operator: JM Report Date: 7/22/2020 Filter Mfg.: Housing Mfg.:



Pressure ("H2O) 5.433 5.402 5.391 5.429 5.477 5.544 5.587 5.623 5.692 5.802 5.932 6.052 6.17 6.349 6.603 7.07 7.487 8.082 9.076 10.505 12.603 15.294 15.804

Test Description: 75-5140 with KF-1050, no MAF Sensor, with Box Plug

		Tes	t Condition	S			
Barometric Pressure:	28.727 in. Hg			Relative	Humidity:	52 %	6
Air Flow Setpoint:	580 SCFM			Ту	pe of Dust:	A4 Coarse	
Test Procedure:	Capacity and Eff				Batch #:		
Air Flow Type:	SCFM			Ter	mperature:	69 c	leg. F
Test Endpoint:	10 in. H2O			Initial	Add Rate:	NaN g	/min
Number of Pleats:			А	ccumulative	Add Rate:	16.42 g	/min
Flow Direction:				PI	leat Depth:	i	n.
Initial Delta P	5.41 in. H2O		1	Accumulative	e Capacity:	328.50 g	1
Initial Delta P	5.41 in. H2O				e Capacity: Test Time:	328.50 g 21.16 r	100
		Initial		Accumulative	e		
			Blanket	3	Blanket		
	Start			5489.10			
	End			5817.60			
	Gain			328.50	1.90		
	Efficiency			99.42%			

Standard Restriction

Pressure Differential

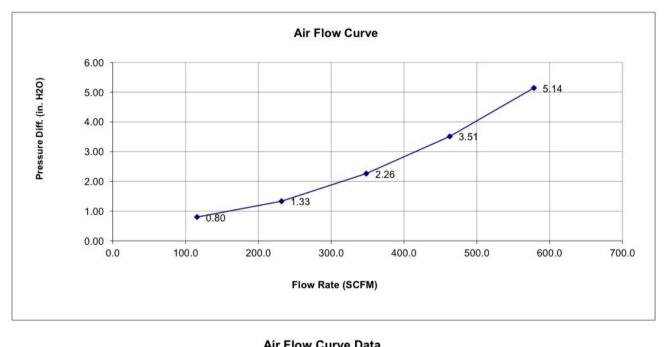
						Dust Loadin	g Curve Data
	Г	oust Loading Cu	rve			Dust Fed (g)	Pressure ("H
	2	dot Louding of				0	5.433
18 -						15.822	5.402
						32.223	5.391
16				2		48.662	5.429
14						65.187	5.477
14						81.602	5.544
12				/		98.014	5.587
10				*		114.299	5.623
10						130.77	5.692
8				×		147.307	5.802
38/2						163.816	5.932
6		+++++				180.201	6.052
4						196.27	6.17
						212.941	6.349
2						229.246	6.603
0						245.863	7.07
0 50	100	150 200	250	300 350	400	262.248	7.487
0 50	100	150 200	200	300 350	400	278.65	8.082
		Dust Fed (g)				294.883	9.076
		100 100 100 100 1 00				311.518	10.505
						327.84	12.603
						344.467	15.294
						346.843	15.804

Test #: 806 Sample #: -04R Filter #: KF-1050D Housing #: Date Code: 2020.07.21 JM 7/23/2020



Test Description: 75-5140, with KF-1050D, without Box Plug, without MAF Sensor

	Tes	t Conditions	
Barometric Pressure:	28.68174 in. Hg	Relative Humidity:	54 %
Air Flow Type:	SCFM	Temperature:	70 deg. F
Number of Pleats: Flow Direction:		Pleat Depth:	in.



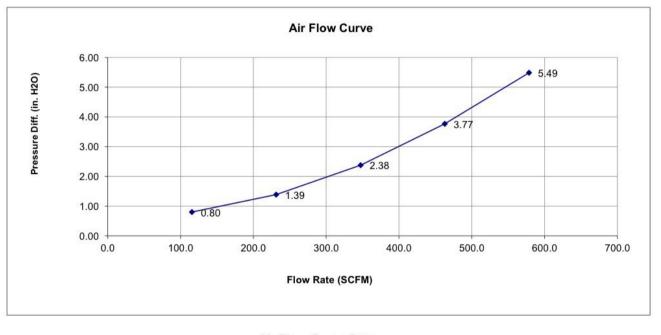
AITFION	v Guive Dala
Flow Rate	Differential Pressure
116	0.80
232	1.33
348	2.26
463	3.51
579	5.14

Test #: 806 Sample #: -03R Filter #: KF-1050D Housing #: Date Code: 2020.07.21 JM 7/23/2020



Test Description: 75-5140, with KF-1050D, with Box Plug, without MAF Sensor

	Tes	t Conditions	
Barometric Pressure:	28.68532 in. Hg	Relative Humidity:	54 %
Air Flow Type:	SCFM	Temperature:	70 deg. F
Number of Pleats: Flow Direction:		Pleat Depth:	in.



Air Flow Curve Data

Flow Rate	Differential Pressure			
116	0.80			
231	1.39			
347	2.38			
463	3.77			
579	5.49			

Air Filter Full Life Efficiency Test Report

Test #: 806 Sample #: -06CE Filter #: KF-1050D Housing #: Date Code: 2020.07.22

Operator: JM Report Date: 7/23/2020 Filter Mfg.: Housing Mfg.:



Pressure ("H2O) 5.485 5.51 5.654 5.776 5.91 6.038 6.245 6.453 6.707 7.076 7.626 8.352 9.237 10.33 11.861 13.538 15.58 15.882

Test Description: 75-5140 with KF-1050D, no MAF Sensor, with Box Plug

		Tes	at Condition	s		
Barometric Pressure:	28.757 in. Hg			Relative	Humidity:	59 %
Air Flow Setpoint:	580 SCFM			Тур	be of Dust:	A4 Coarse
Test Procedure:	Capacity and Eff	Batch #:				
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:	16.42 g/min
Flow Direction:			304.0	PI	eat Depth:	in.
Initial Delta P	5.44 in. H2O		1	Accumulative	e Capacity: Test Time:	250.70 g 16.13 min
		Initial		Accumulative	•	
			Blanket		Blanket	
	Start			5382.90	598.21	
	End			5633.60		
	Gain			250.70	1.16	
	Efficiency			99.54%		

Standard Restriction

Pressure Differential

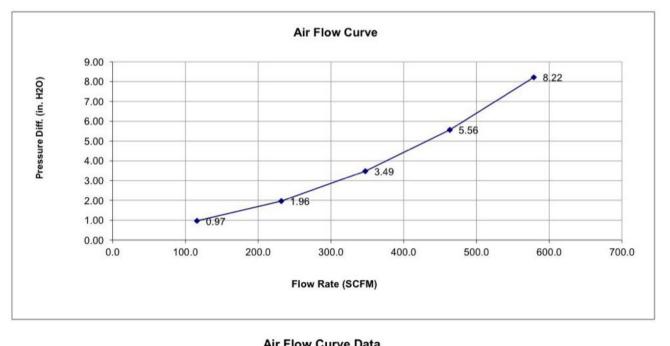
						Dust Loading Curve Data		
	Dust Loading Curve			Dust Fed (g)	Pressure ("H			
				0	5.485			
18 1							15.812	5.51
					_		32.183	5.654
16					1		49.084	5.776
14							65.258	5.91
14					*		81.535	6.038
12					*		97.719	6.245
10							114.019	6.453
10							130.392	6.707
			~	~			146.813	7.076
200			+ + + +				163.37	7.626
6	+++						180.018	8.352
4							196.348	9.237
							212.721	10.33
2							229.25	11.861
0							245.728	13.538
0	50	100	150	200	250	300	261.75	15.58
0	00	100	100	200	200	000	263.993	15.882
		Dus	st Fed (g)			_		
						-		
						-		

Test #: 803 Sample #: 1 Filter #: STOCK Housing #: STOCK Date Code: 43938 BL 4/17/2020 FORD FORD



Test Description: 2020 FORD POWERSTROKE STOCK INTAKE

Test Conditions				
Barometric Pressure:	28.83342 in. Hg	Relative Humidity:	35 %	
Air Flow Type:	SCFM	Temperature:	72 deg. F	
Number of Pleats: Flow Direction:		Pleat Depth:	in.	



Air Flow Curve Data				
Flow Rate	Differential Pressure			
116	0.97			
232	1.96			
347	3.49			
463	5.56			
579	8.22			

Air Filter Full Life Efficiency Test Report

Test #: 803 Sample #: 2 Filter #: STOCK Housing #: STOCK Date Code: 43938 Operator: BL Report Date: 4/17/2020 Filter Mfg.: FORD Housing Mfg.: FORD



Test Description: 2020 FORD POWERSTROKE STOCK INTAKE

		Test Conditi	ons		
Barometric Pressure: Air Flow Setpoint:				Humidity: pe of Dust:	44 %
Test Procedure:		Batch #:			
Air Flow Type:			66 deg. F		
Test Endpoint:			NaN g/min		
Number of Pleats:			Accumulative	Add Rate:	0 g/min
Flow Direction:			P	leat Depth:	in.
		Test Resu	ts		
Initial Delta P	8.16 in. H2O	H2O Accumulative Capacity:			884.40 g
				Test Time:	56.69 min
		Initial Accumulative			
		Blanket		Blanket	
	Start		4010.50		
	End		4894.90	596.07	
	Gain		884.40	7.05	
	Efficiency		99.21%		

Standard Restriction

C Pressure Differential

