

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

Part Number: 75-5110, 75-5110D

Description: Performance Intake Kit & Filter

Vehicle Applications: 2016-17 GM/Chevrolet 2500 6.0L Gas

Test Date: 03/15/2018

Test Report #: 15, 16, 17, 18,

19, 20, 22, 24

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 46.30% 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 @ 458 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	46.30%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	42.22%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	45.66%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	41.20%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	458 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13241C
Dust Feed Rate (grams/minute)	12.97

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 @ 458 cfm)
Stock	99.66%
S&B Intake w/ Cleanable Filter	99.20%
S&B Intake w/ Dry Filter	99.50%

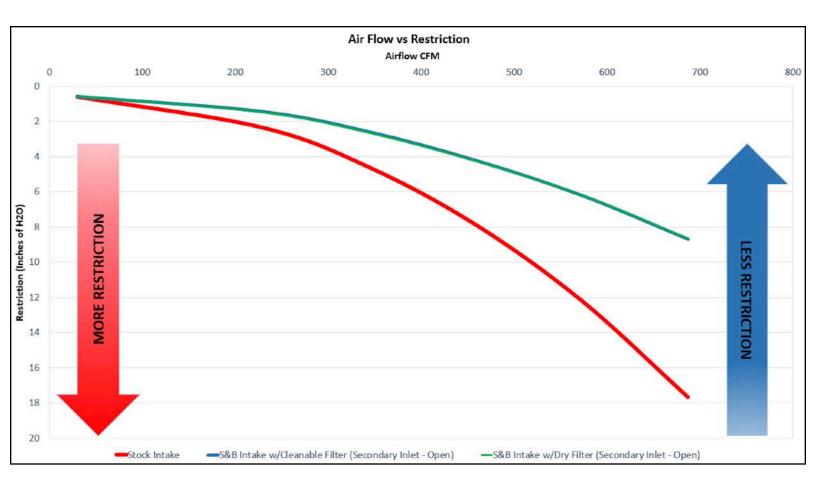
WATCH OUT: Some Competitors Use the Same Efficiency Rates for Multiple Part Numbers.

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.









474 Operator: KM Test #: Report Date: 3/15/2018 **Sample #:** 15 Filter #: 22845992 Filter Mfg.: Housing #:

Housing Mfg.:



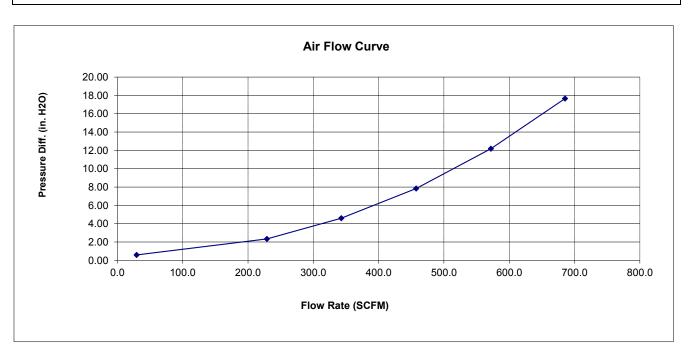
Test Description: Stock Intake, Stock Filter, No CCV, No Sensor

Test Conditions

Barometric Pressure: 28.85229 in. Hg **Relative Humidity:** 50 % Air Flow Type: Temperature: 68 deg. F SCFM Number of Pleats: Pleat Depth: in.

Flow Direction:

Date Code:



Flow Rate	<u>Differential Pressure</u>
29	0.59
229	2.34
343	4.60
457	7.84
572	12.19
685	17.66

 Test #:
 474
 Operator: KM

 Sample #:
 16
 Report Date: 3/15/2018

 Filter #:
 KF-1062
 Filter Mfg.:

Housing #: Housing Mfg.:

Date Code:

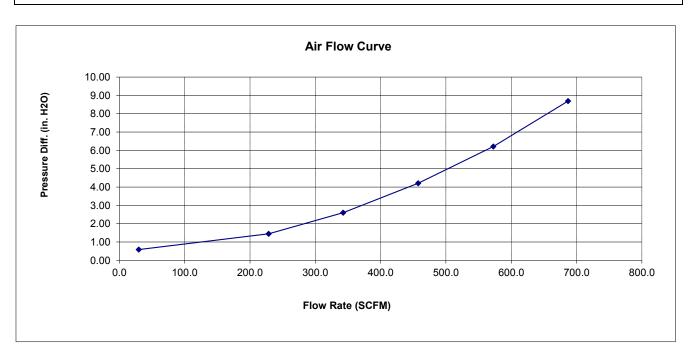


Test Description: 75-5110 Production Kit, No CCV, No Sensor, No Plug

Test Conditions

Barometric Pressure: 28.84321 in. Hg Relative Humidity: 50 %
Air Flow Type: SCFM Temperature: 68 deg. F
Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
30	0.59
229	1.45
343	2.60
458	4.21
573	6.21
687	8.69

 Test #:
 474
 Operator: KM

 Sample #:
 19
 Report Date: 3/15/2018

 Filter #:
 KF-1062
 Filter Mfg.:

Housing #: Housing Mfg.: Date Code:

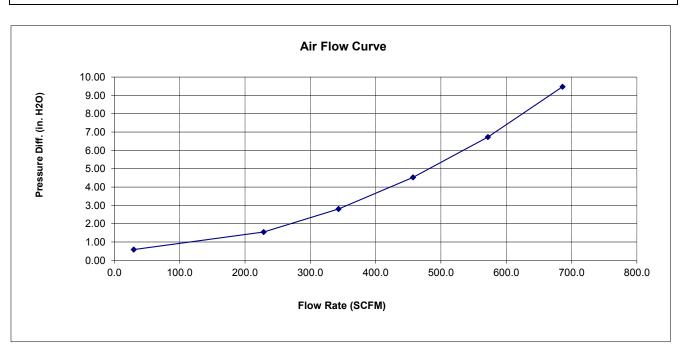


Test Description: 75-5110 Production Kit, No CCV, No Sensor, Plug Installed

Test Conditions

Barometric Pressure: 28.82141 in. Hg
Air Flow Type: SCFM
Number of Pleats: SCFM
Relative Humidity: 50 %
Temperature: 69 deg. F
Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
30	0.59
229	1.54
343	2.80
457	4.53
572	6.73
686	9.48

Operator: KM

474 Test #: Report Date: 3/15/2018 Sample #: 17 Filter #: KF-1062D

Filter Mfg.: Housing Mfg.: Housing #: Date Code:

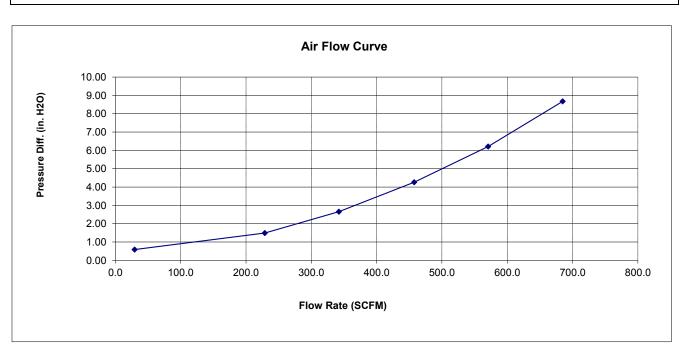


Test Description: 75-5110 Production Kit, No CCV, No Sensor, No Plug

Test Conditions

Barometric Pressure: 28.83381 in. Hg **Relative Humidity:** 50 % Air Flow Type: Temperature: 68 deg. F SCFM Number of Pleats: Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
30	0.59
229	1.49
342	2.66
458	4.26
571	6.21
685	8.68

 Test #:
 474
 Operator: KM

 Sample #:
 18
 Report Date: 3/15/2018

 Filter #:
 KF-1062D
 Filter Mfg.:

Housing #: Housing Mfg.:
Date Code:

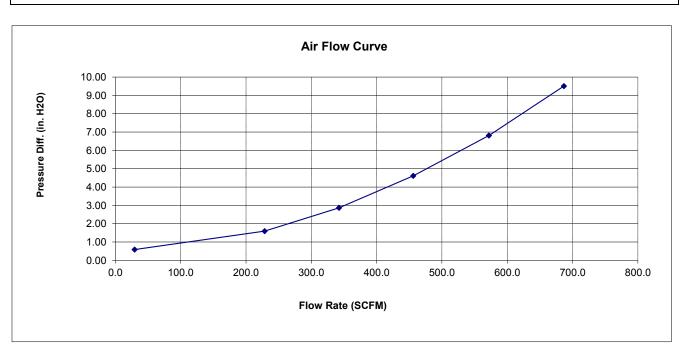


Test Description: 75-5110 Production Kit, No CCV, No Sensor, Plug Installed

Test Conditions

Barometric Pressure: 28.82252 in. Hg
Air Flow Type: SCFM
Number of Pleats: SCFM
Relative Humidity: 50 %
Temperature: 68 deg. F
Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
30	0.59
229	1.60
343	2.86
456	4.61
572	6.81
687	9.51

Air Filter Full Life Efficiency Test Report

474 Test #: Sample #: 20 Filter #: 22845992

Housing #: Date Code:

Operator: KM Report Date: 3/16/2018 Filter Mfg.:

Housing Mfg.:



Test Description: Stock Intake, Stock Filter, No CCV, No Sensor

Test Conditions

Barometric Pressure: 28.879 in. Hg **Relative Humidity:** 50 %

Type of Dust: 458 SCFM Air Flow Setpoint: **Test Procedure:** Batch #:

Air Flow Type: Temperature: SCFM 69 deg. F **Test Endpoint:** 10 in. H2O **Initial Add Rate:** NaN g/min **Number of Pleats: Accumulative Add Rate:** 12.97 g/min Flow Direction: Pleat Depth: in.

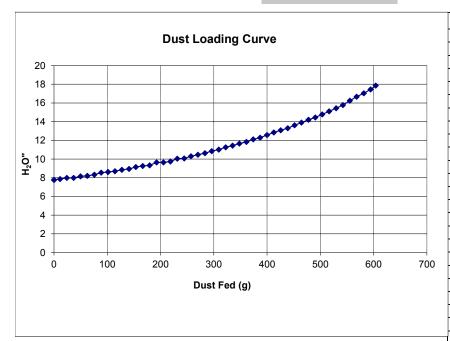
Test Results

Initial Delta P 7.88 in. H2O **Accumulative Capacity:** 601.00 g

Test Time: 46.75 min

	Initial		Accumulative)
		Blanket		Blanket
Start			3932.80	173.06
End			4533.80	175.11
Gain			601.00	2.05
Efficiency			99.66%	

Standard Restriction Pressure Differential



Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)	
0	7.767	
11.402	7.856	
24.182	7.986	
36.91	7.988	
49.728	8.141	
62.648	8.204	
75.852	8.318	
88.612	8.546	
101.584	8.608	
114.547	8.687	
127.378	8.851	
140.767	8.943	
153.627	9.141	
166.591	9.259	
179.56	9.318	
192.561	9.633	
205.577	9.638	
218.494	9.741	
231.409	10.029	
244.435	10.067	
257.289	10.291	
270.259	10.467	
283.291	10.629	
296.088	10.849	

Air Filter Full Life Efficiency Test Report

474 Test #: Sample #: 24 Filter #: KF-1062

Housing #: Date Code:

Operator: KM Report Date: 3/19/2018 Filter Mfg.:

Housing Mfg.:



Test Description: 75-5110 Production Kit, No CCV, No Sensor, Plug Installed

Test Conditions

Barometric Pressure: 28.943 in. Hg **Relative Humidity:** 50 %

Type of Dust: 458 SCFM Air Flow Setpoint: **Test Procedure:** Batch #:

Air Flow Type: Temperature: SCFM 69 deg. F **Test Endpoint:** 10 in. H2O **Initial Add Rate:** NaN g/min **Number of Pleats: Accumulative Add Rate:** 12.97 g/min Flow Direction: Pleat Depth: in.

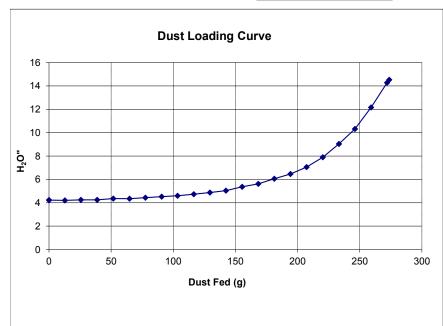
Test Results

Initial Delta P 4.23 in. H2O **Accumulative Capacity:** 270.30 g

Test Time: 21.15 min

	Initial		Accumulative)
		Blanket		Blanket
Start			5002.50	181.97
End			5272.80	184.14
Gain			270.30	2.17
Efficiency			99 20%	

Standard Restriction Pressure Differential



Dust Fed (g) Pressure ("H2O) 0 4.225 12.791 4.201 25.678 4.253 38.781 4.246 51.709 4.361 64.782 4.347 77.617 4.44 90.657 4.524 103.456 4.599 116.537 4.736 129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276 273.753 14.521	Dust Loading Curve Data		
12.791 4.201 25.678 4.253 38.781 4.246 51.709 4.361 64.782 4.347 77.617 4.44 90.657 4.524 103.456 4.599 116.537 4.736 129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	Dust Fed (g)	Pressure ("H2O)	
25.678 4.253 38.781 4.246 51.709 4.361 64.782 4.347 77.617 4.44 90.657 4.524 103.456 4.599 116.537 4.736 129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	0	4.225	
38.781 4.246 51.709 4.361 64.782 4.347 77.617 4.44 90.657 4.524 103.456 4.599 116.537 4.736 129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	12.791	4.201	
51.709 4.361 64.782 4.347 77.617 4.44 90.657 4.524 103.456 4.599 116.537 4.736 129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	25.678	4.253	
64.782 4.347 77.617 4.44 90.657 4.524 103.456 4.599 116.537 4.736 129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	38.781	4.246	
77.617 4.44 90.657 4.524 103.456 4.599 116.537 4.736 129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	51.709	4.361	
90.657 4.524 103.456 4.599 116.537 4.736 129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	64.782	4.347	
103.456 4.599 116.537 4.736 129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	77.617	4.44	
116.537 4.736 129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	90.657	4.524	
129.444 4.874 142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	103.456	4.599	
142.353 5.034 155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	116.537	4.736	
155.446 5.361 168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	129.444	4.874	
168.409 5.617 181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	142.353	5.034	
181.318 6.052 194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	155.446	5.361	
194.26 6.46 207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	168.409	5.617	
207.275 7.05 220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	181.318	6.052	
220.256 7.9 233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	194.26	6.46	
233.233 9.034 246.146 10.318 259.111 12.156 272.032 14.276	207.275	7.05	
246.146 10.318 259.111 12.156 272.032 14.276	220.256	7.9	
259.111 12.156 272.032 14.276	233.233	9.034	
272.032 14.276	246.146	10.318	
	259.111	12.156	
273.753 14.521	272.032	14.276	
	273.753	14.521	

Air Filter Full Life Efficiency Test Report

Test #: 474 Sample #: 22 Filter #: KF-1062D

Housing #: Date Code:

Operator: KM Report Date: 3/16/2018 Filter Mfg.:

Housing Mfg.:



Test Description: 75-5110 Production Kit, No CCV, No Sensor, Plug Installed

Test Conditions

Barometric Pressure: 28.837 in. Hg Relative Humidity: 50 %

Air Flow Setpoint: 458 SCFM Type of Dust:
Test Procedure: Batch #:

Air Flow Type: SCFM Temperature: 69 deg. F
Test Endpoint: 10 in. H2O Initial Add Rate: NaN g/min
Number of Pleats: Accumulative Add Rate: 12.97 g/min
Flow Direction: Pleat Depth: in.

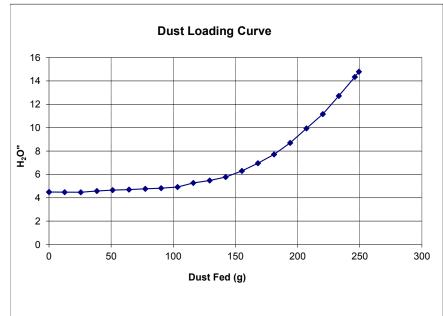
Test Results

Initial Delta P 4.57 in. H2O Accumulative Capacity: 248.00 g

Test Time: 19.25 min

	Initial	Initial Ac		ccumulative	
		Blanket		Blanket	
Start			4905.10	178.01	
End			5153.10	179.26	
Gain			248.00	1.25	
Efficiency			99.50%		

Standard RestrictionPressure Differential



Dust Loading Curve Data			
Dust Fed (g)	Pressure ("H2O)		
0	4.494		
12.582	4.475		
25.546	4.472		
38.562	4.58		
51.24	4.649		
64.419	4.694		
77.465	4.761		
90.29	4.815		
103.39	4.921		
116.113	5.265		
129.245	5.474		
142.162	5.771		
155.242	6.296		
168.101	6.951		
181.107	7.711		
194.09	8.7		
207.083	9.938		
220.256	11.158		
233.227	12.716		
246.042	14.337		
249.356	14.794		











