



# THE FACTS ABOUT YOUR INTAKE & AIR FILTER

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

<b>Part Number:</b>	<b>Test Date:</b>
<b>Description:</b>	<b>Test Report #:</b>
<b>Vehicle Applications:</b>	

## 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!

<p><b>FACT: S&amp;B Flows _____ Better than Stock.</b>          In tests performed in our climate controlled laboratory according to the ISO5011 Test Standard, S&amp;B's intake kit (and filter) had significantly lower restriction (better airflow) than the stock intake system. See the graph on the next page.</p>	<p><b>WATCH OUT: Some competitors overstate airflow.</b>          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.</p>
--	---

Description	% S&B Flowed Better than Stock (tested @ _____ cfm)	Test Conditions
S&B Intake w/ Oiled Filter (Secondary Inlet - Open)		Barometric Pressure
S&B Intake w/ Oiled Filter (Secondary Inlet - Closed)		Airflow Setpoint
S&B Intake w/ Dry Filter (Secondary Inlet - Open)		Relative Humidity
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)		Temperature
		Type of Dust
		Batch #
		Dust Feed Rate (grams/minute)

<p><b>FACT: S&amp;B Protects Your Engine</b>          S&amp;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</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Efficiency Rate (Tested @ _____ cfm)</th> </tr> </thead> <tbody> <tr> <td>Stock</td> <td></td> </tr> <tr> <td>S&amp;B Intake w/ Cleanable Filter</td> <td></td> </tr> <tr> <td>S&amp;B Intake w/ Dry Filter</td> <td></td> </tr> </tbody> </table>	Description	Efficiency Rate (Tested @ _____ cfm)	Stock		S&B Intake w/ Cleanable Filter		S&B Intake w/ Dry Filter		<p><b>WATCH OUT: Some Competitors Use the Same Efficiency Rates for Multiple Part Numbers</b>          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</p>
Description	Efficiency Rate (Tested @ _____ cfm)									
Stock										
S&B Intake w/ Cleanable Filter										
S&B Intake w/ Dry Filter										

# Air Filter Restriction Test Report

Test #: 753  
Sample #: 5  
Filter #: KF-1070  
Housing #: 75-6000/75-6001  
Date Code: 43635

BEN L  
8/16/2019  
S&B FILTERS  
S&B FILTERS



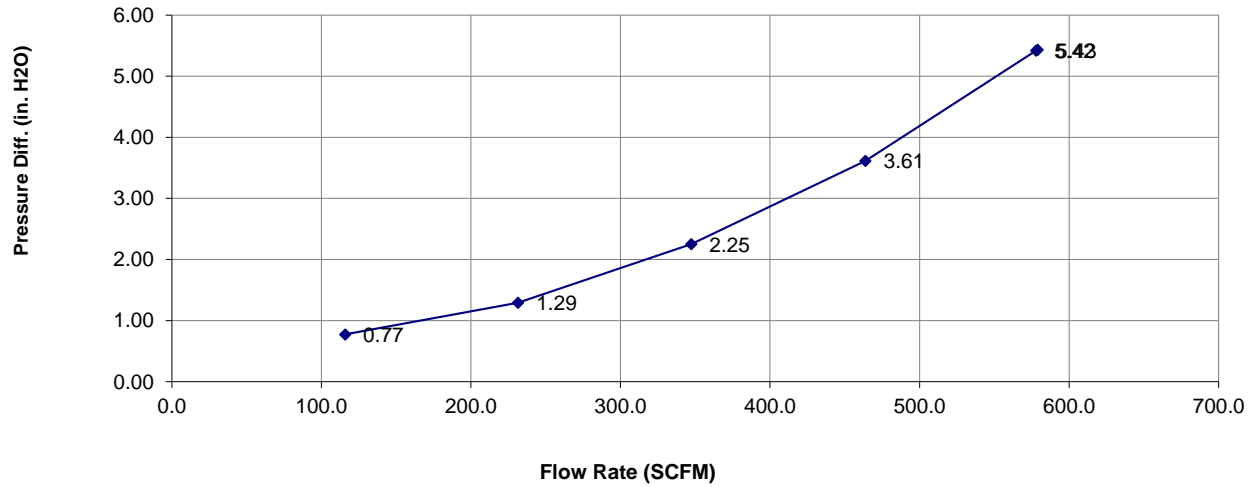
Test Description: RESTRICTION VERSUS 75-5085 AND 75-5104 OILED FILTER (WITH INSERT)

## Test Conditions

Barometric Pressure: 28.87909 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 77  
Flow Direction:

Relative Humidity: 59 %  
Temperature: 68 deg. F  
Pleat Depth: 1 in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
116	0.77
232	1.29
347	2.25
464	3.61
578	5.42
579	5.43

# Air Filter Restriction Test Report

Test #: 753  
Sample #: 4  
Filter #: KF-1070R  
Housing #: 75-6000/75-6001  
Date Code: 43635

BEN L  
8/16/2019  
S&B FILTERS  
S&B FILTERS



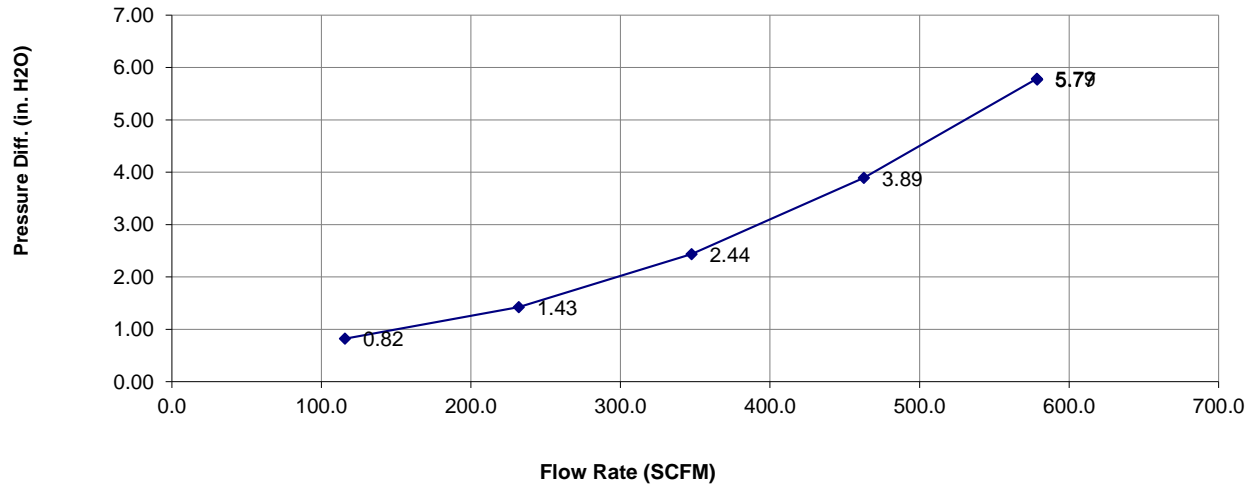
Test Description: RESTRICTION VERSUS 75-5085 AND 75-5104 DRY FILTER (WITH INSERT)

## Test Conditions

Barometric Pressure: 28.8787 in. Hg  
Air Flow Type: SCFM  
Number of Pleats: 100  
Flow Direction:

Relative Humidity: 58 %  
Temperature: 68 deg. F  
Pleat Depth: 1 in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
116	0.82
232	1.43
347	2.44
463	3.89
578	5.79
579	5.77

# Air Filter Full Life Efficiency Test Report

**Test #:** 757  
**Sample #:** 2  
**Filter #:** KF-1070  
**Housing #:** 75-6000/75-6001  
**Date Code:** 43692

**Operator:** BEN L  
**Report Date:** 8/16/2019  
**Filter Mfg.:** S&B FILTERS  
**Housing Mfg.:** S&B FILTERS



**Test Description:** EFFICIENCY OF THE OPEN INTAKE OILED FILTER

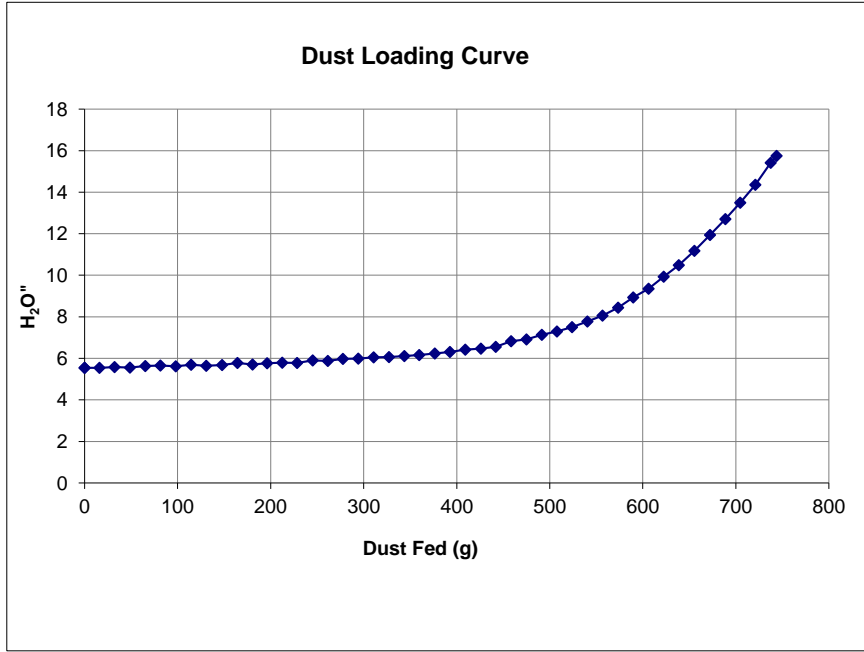
Test Conditions			
<b>Barometric Pressure:</b>	28.778 in. Hg	<b>Relative Humidity:</b>	37 %
<b>Air Flow Setpoint:</b>	580 SCFM	<b>Type of Dust:</b>	A4 COARSE
<b>Test Procedure:</b>	EFFICIENCY	<b>Batch #:</b>	13985C
<b>Air Flow Type:</b>	SCFM	<b>Temperature:</b>	74 deg. F
<b>Test Endpoint:</b>	10 in. H2O	<b>Initial Add Rate:</b>	NaN g/min
<b>Number of Pleats:</b>	77	<b>Accumulative Add Rate:</b>	16.42 g/min
<b>Flow Direction:</b>		<b>Pleat Depth:</b>	0.9 in.

Test Results			
<b>Initial Delta P</b>	5.54 in. H2O	<b>Accumulative Capacity:</b>	650.70 g
		<b>Test Time:</b>	45.38 min

	Initial		Accumulative	
		Blanket		Blanket
Start			4413.60	584.49
End			5064.30	589.81
Gain			650.70	5.32
Efficiency			99.19%	

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure (H2O)
0	5.545
15.933	5.542
32.258	5.576
48.78	5.561
65.133	5.626
81.529	5.658
98.038	5.614
114.35	5.695
130.618	5.637
147.787	5.676
164.314	5.777
180.499	5.707
196.16	5.767
212.331	5.787
228.459	5.78
245.198	5.897
261.447	5.878
277.758	5.973
294.279	5.992
310.654	6.049
327.25	6.061
343.769	6.117
359.769	6.166
376.305	6.229

# Air Filter Full Life Efficiency Test Report

**Test #:** 736  
**Sample #:** 10  
**Filter #:** KF-1070R  
**Housing #:** 75-6000/75-6001  
**Date Code:** 4.25.2019

**Operator:** BEN LONG  
**Report Date:** 4/25/2019  
**Filter Mfg.:** S&B FILTERS  
**Housing Mfg.:** S&B FILTERS

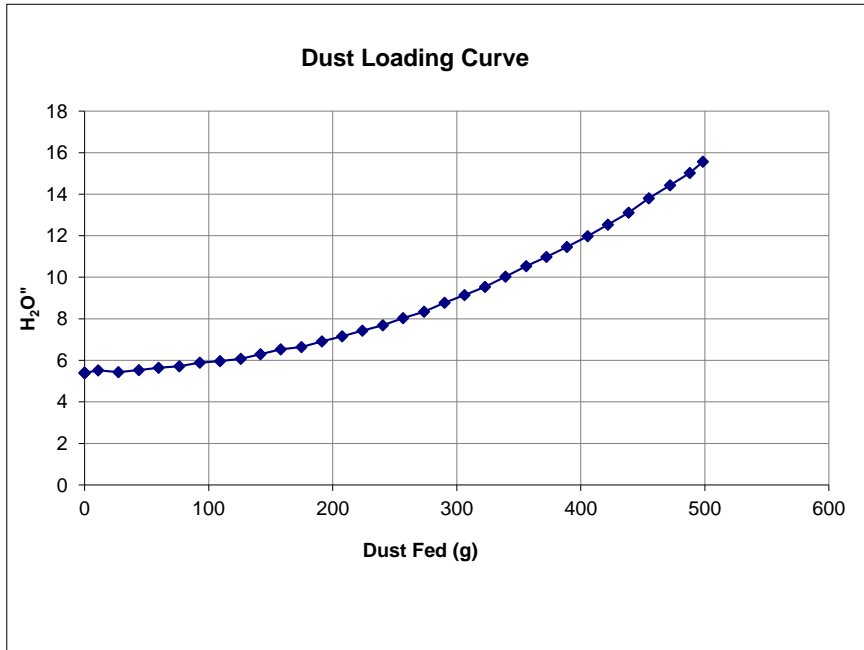


**Test Description:** CAPACITY AND EFFICIENCY TEST OF THE FORD POWERSTROKE 6.7L 2011-2019 S&B INTAKE WITH FILTER KF

Test Conditions			
<b>Barometric Pressure:</b> 28.819 in. Hg <b>Air Flow Setpoint:</b> 580 SCFM <b>Test Procedure:</b> FICIENCY <b>Air Flow Type:</b> SCFM <b>Test Endpoint:</b> 10 in. H2O <b>Number of Pleats:</b> 100 <b>Flow Direction:</b>	<b>Relative Humidity:</b> 52 % <b>Type of Dust:</b> A4 COARSE <b>Batch #:</b> 13985C <b>Temperature:</b> 69 deg. F <b>Initial Add Rate:</b> NaN g/min <b>Accumulative Add Rate:</b> 16.42 g/min <b>Pleat Depth:</b> 0.9 in.		

Test Results																																
<b>Initial Delta P</b> 1.45 in. H2O	<b>Accumulative Capacity:</b> 403.70 g <b>Test Time:</b> 30.39 min																															
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Initial</th> <th colspan="2">Accumulative</th> </tr> <tr> <th></th> <th>Blanket</th> <th></th> <th>Blanket</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td></td> <td></td> <td style="text-align: right;">2676.90</td> <td style="text-align: right;">614.00</td> </tr> <tr> <td>End</td> <td></td> <td></td> <td style="text-align: right;">3080.60</td> <td style="text-align: right;">614.40</td> </tr> <tr> <td>Gain</td> <td></td> <td></td> <td style="text-align: right;">403.70</td> <td style="text-align: right;">0.40</td> </tr> <tr> <td>Efficiency</td> <td></td> <td></td> <td colspan="2" style="text-align: center;">99.90%</td> </tr> </tbody> </table>		Initial		Accumulative			Blanket		Blanket	Start			2676.90	614.00	End			3080.60	614.40	Gain			403.70	0.40	Efficiency			99.90%			
	Initial		Accumulative																													
		Blanket		Blanket																												
Start			2676.90	614.00																												
End			3080.60	614.40																												
Gain			403.70	0.40																												
Efficiency			99.90%																													

- Standard Restriction
- Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	Pressure (H2O)
0	5.414
0	5.397
10.881	5.521
27.32	5.432
43.672	5.531
59.637	5.647
76.3	5.719
92.955	5.885
109.204	5.96
125.962	6.075
141.837	6.291
158.175	6.524
174.706	6.637
191.238	6.915
207.69	7.163
223.93	7.429
240.516	7.683
256.711	8.028
273.653	8.342
290.151	8.779
306.325	9.147
322.838	9.537
339.194	10.032
355.991	10.533





shillers.com

FILTERS  
shillers.com

FILTERS  
shillers.com

**BREATHE THE EASY.  
& WARRANTY  
YOUR ENGINE  
ARE PROTECTED.**

**K-F-1035**

WARNING: THIS PRODUCT IS NOT TO BE USED IN A MANNER NOT INTENDED BY THE MANUFACTURER.

shillers.com

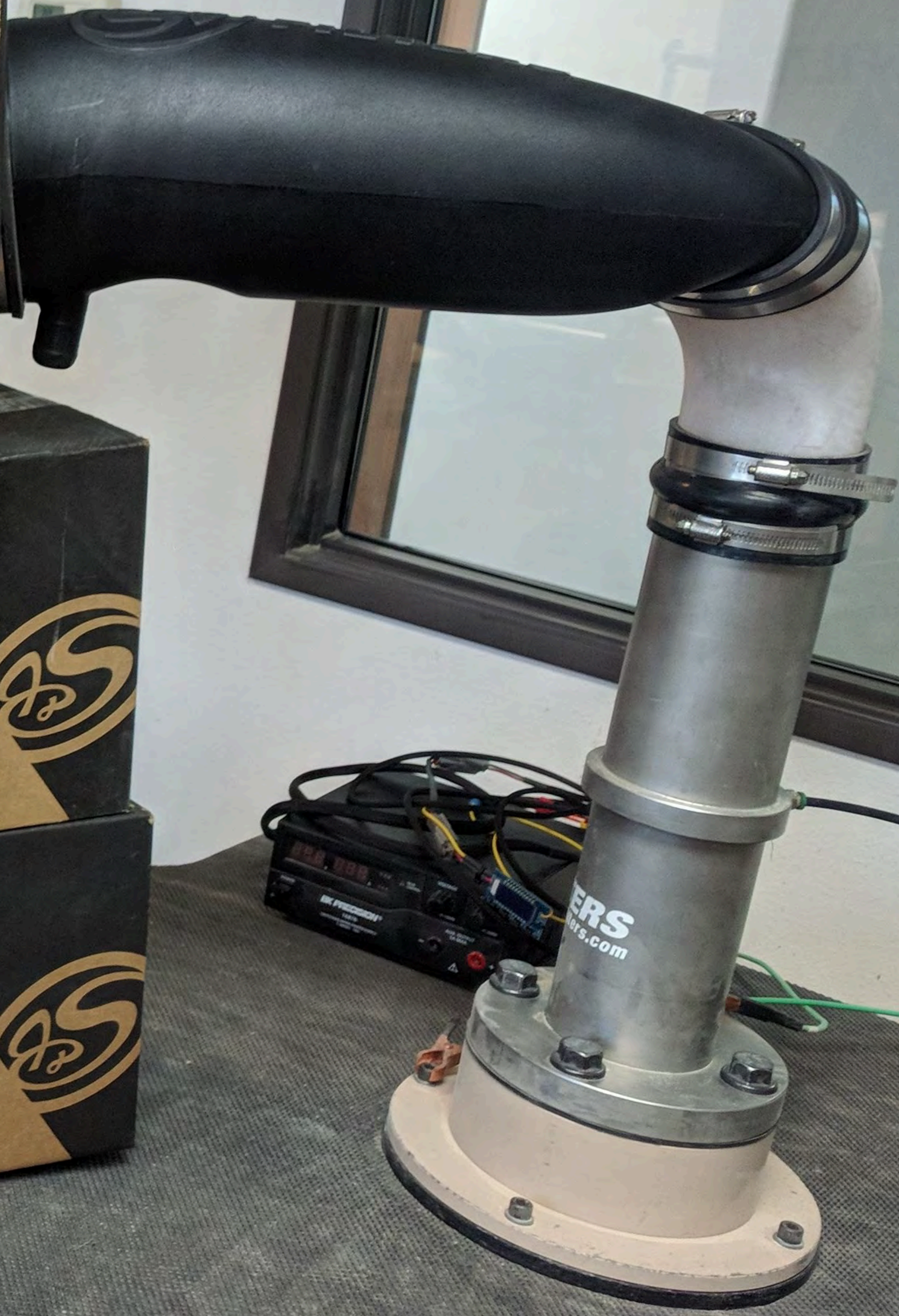






**S&B FILTERS**  
sbfilters.com 800.358.2639

**S&B FILTERS**  
BREATHE EASY  
& MAINTAIN  
YOUR ENGINE  
ARE PROTECTED







BREATHER  
PROTECT YOUR LUNGS

BREATHER  
PROTECT YOUR LUNGS

CAUTION  
PUSH PART

ATTENTION  
PARTS



## Air Filter Full Life Efficiency Test Report

**Test #:** 736  
**Sample #:** 8  
**Filter #:** FA-1902  
**Housing #:** STOCK  
**Date Code:** 4.25.2019

**Operator:** BEN LONG  
**Report Date:** 4/25/2019  
**Filter Mfg.:** FORD MOTORCRAF  
**Housing Mfg.:** FORD

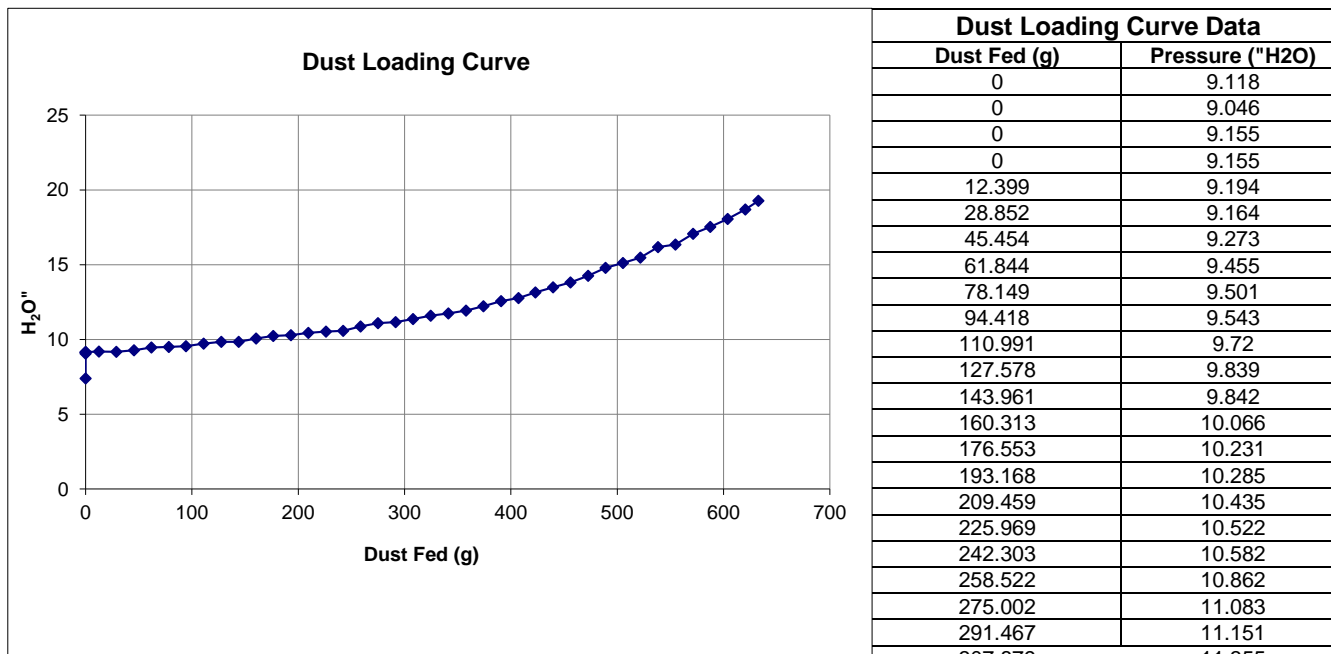


**Test Description:** CAPACITY AND EFFICIENCY TEST OF THE FORD POWERSTROKE 6.7L 2011-2016 STOCK AIR INTAKE/FILTER

Test Conditions			
<b>Barometric Pressure:</b>	28.853 in. Hg	<b>Relative Humidity:</b>	55 %
<b>Air Flow Setpoint:</b>	580 SCFM	<b>Type of Dust:</b>	A4 COARSE
<b>Test Procedure:</b>	FICIENCY	<b>Batch #:</b>	13985C
<b>Air Flow Type:</b>	SCFM	<b>Temperature:</b>	68 deg. F
<b>Test Endpoint:</b>	10 in. H2O	<b>Initial Add Rate:</b>	NaN g/min
<b>Number of Pleats:</b>		<b>Accumulative Add Rate:</b>	16.42 g/min
<b>Flow Direction:</b>		<b>Pleat Depth:</b>	in.

Test Results			
<b>Initial Delta P</b>	1.90 in. H2O	<b>Accumulative Capacity:</b>	545.30 g
		<b>Test Time:</b>	38.53 min
		Initial	Accumulative
		Blanket	Blanket
<b>Start</b>		2841.30	606.78
<b>End</b>		3386.60	607.37
<b>Gain</b>		545.30	0.59
<b>Efficiency</b>		99.89%	

- Standard Restriction
- Pressure Differential





# Air Filter Restriction Test Report

Test #: 753  
Sample #: 14  
Filter #: FA-1902  
Housing #: 11-16 POWERSTROKE STOCK  
Date Code: 43636

BEN L  
6/20/2019  
FORD MOTORCRAF  
FORD



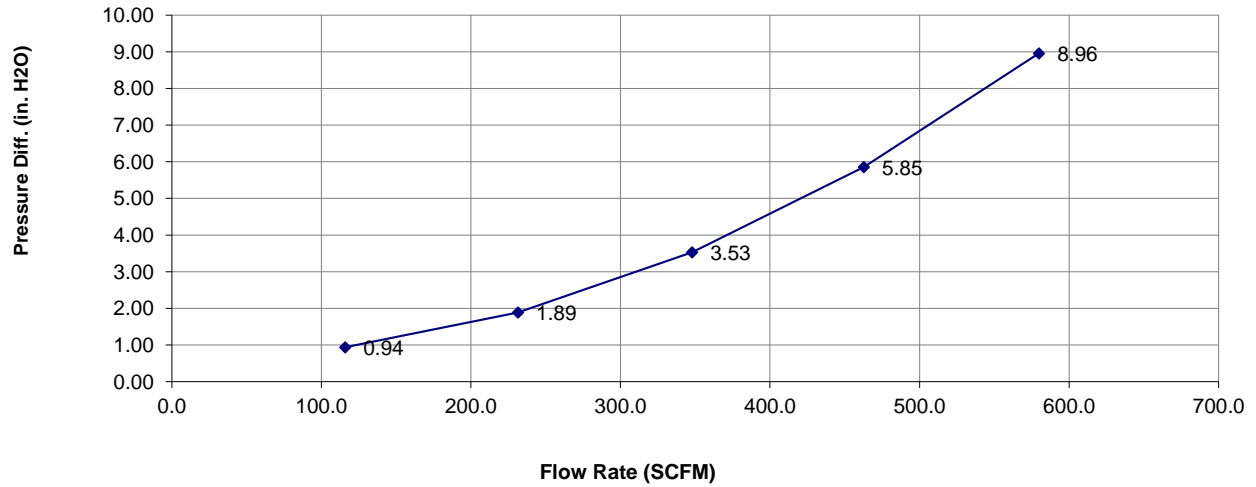
Test Description: STOCK AIRBOX AND FILTER RESTRICTION

## Test Conditions

Barometric Pressure: 28.84471 in. Hg  
Air Flow Type: SCFM  
Number of Pleats:  
Flow Direction:

Relative Humidity: 49 %  
Temperature: 77 deg. F  
Pleat Depth: in.

## Air Flow Curve



## Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
116	0.94
231	1.89
348	3.53
463	5.85
580	8.96



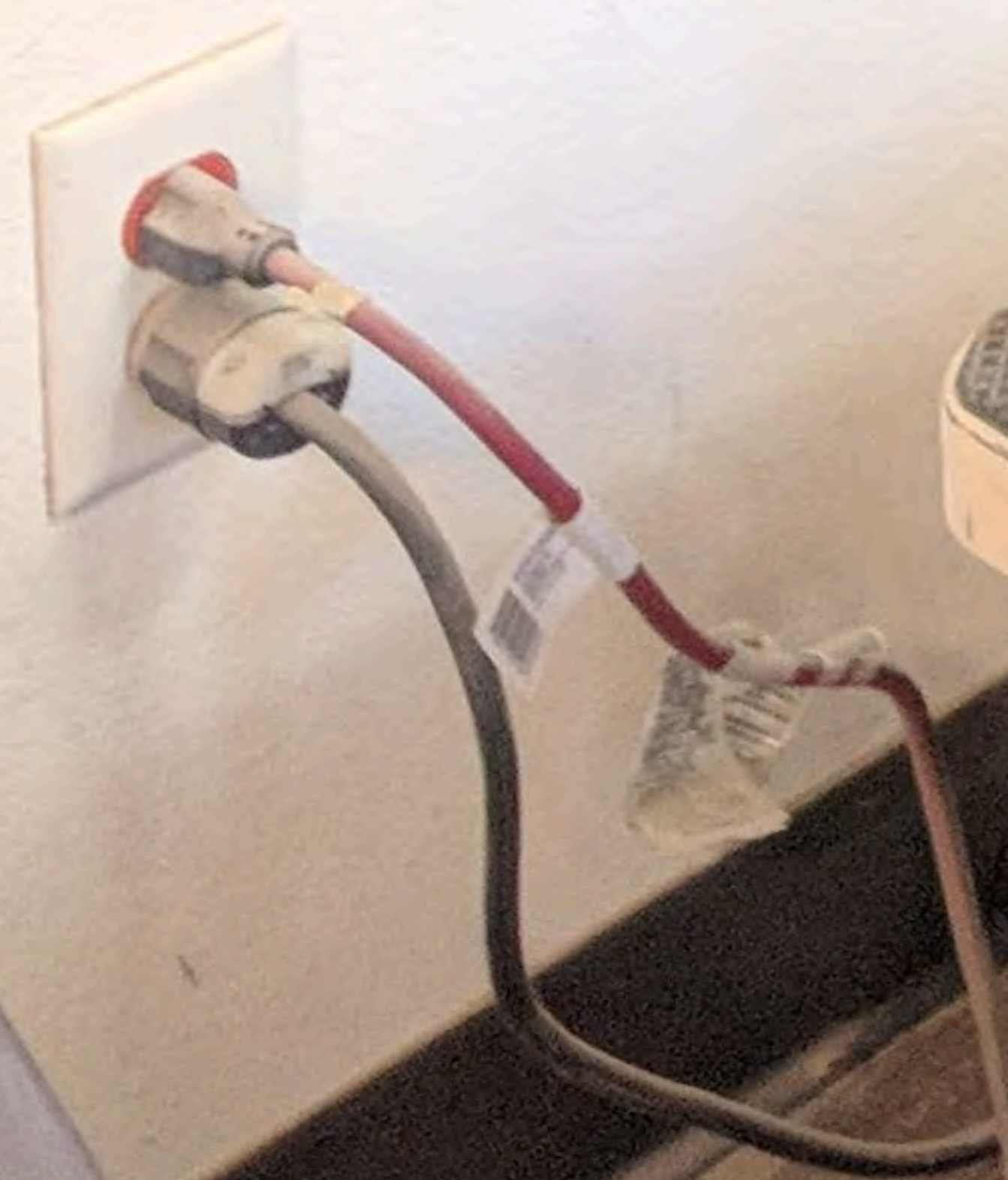


**DANGER**  
SAFETY IN AREA  
BEHIND THE TOOL  
**PELIGRO**  
SEGURIDAD EN EL  
ÁREA DE TRABAJO  
DEBE SER GARANTIZADA

2011 FORD F250-450

FILTER  
www.sbfilters.com

**BREATHE EASY.**  
**YOUR ENGINE**  
**IS PROTECTED.**







AC

1.12  
2011 FERD  
6.7L SUPER DUTY

SPLITTERS  
splits.com

SPLITTERS

BREATHE THE EASY.  
& WARRANTY  
YOUR ENGINE.  
ARE PROTECTED.

KF-1035

6.7L SUPER DUTY

CL. 61 SCH80 283PSI