

## Non-Boondocker Tuned single pipe options for EFI F7s

We dyno'd Kim Stout's bone stock (not even an offset key) F7 EFI sled with a stock pipe and muffler and saw 145 HP and 100 lb/ft torque. Kim ran all last season with this good-ECU 05 F7 EFI, but with Speedwerx pipe and can shown on a separate dyno sheet. His last year's setup was close to 150HP and had perfect reliability for 2000 miles, including several trips to Quebec with its long fast trails and notoriously questionable gas. indicating that the Speedwerx pipe and can were good for about 5 HP.

We removed the Speedwerx can and installed his stock muffler, and surprisingly picked up 2% airflow CFM and 2% more HP, and 3% more midrange torque. Now the Speedwerx single was good for 7HP over the stock pipe. The higher airflow CFM of the Speedwerx pipe surely would add to the F7's good reliability when fitted with their stock muffler.

Finally we installed a Bikeman modified stock pipe (the same one used on Darrell's carb F7 just prior to this test) with stock muffler. This modded pipe also had high airflow, 8.5 HP higher than stock, and had a broad torque curve like the Speedwerx single.

We were out of D&D Ypipes, so we couldn't test Kim's sled with one of those.

This season Kim will ride his F7 with his Speedwerx single, stock muffler and 152 HP instead of 149.

05 F7 EFI all stock stock exhaust

EngSpd RPM	STPTrq Clb-ft	STPPwr CHp	A/F Ratio	BSFC lb/hph	Fuel A lb/hr	FUEL-P psig	AirTmp degF	Air1+2 scfm
5700	72.7	78.9	16.61	0.629	49.1	43.9	50	178.1
5800	73.2	80.8	16.45	0.621	49.6	43.9	51	178.2
5900	75	84.2	16.26	0.612	50.9	43.8	51	180.8
6000	76.3	87.2	16.44	0.598	51.5	43.8	51	185.1
6100	76.9	89.3	16.51	0.585	51.6	43.8	51	186.1
6200	78.7	92.9	16.54	0.567	52.1	43.8	51	188.3
6300	78.7	94.4	16.82	0.562	52.4	43.7	52	192.5
6400	79.9	97.4	16.68	0.559	53.7	43.8	52	195.7
6500	79.9	98.9	16.61	0.553	54.1	43.8	52	196.1
6600	81.3	102.2	16.73	0.533	53.8	43.8	52	196.6
6700	85.1	108.6	16.11	0.536	57.4	43.7	52	202.1
6800	88.5	114.6	15.58	0.536	60.6	43.6	52	206.2
6900	89.5	117.6	15.45	0.536	62.3	43.6	51	210.3
7000	91.3	121.6	15.37	0.528	63.5	43.6	51	213.2
7100	93.1	125.7	15.32	0.529	65.6	43.6	52	219.5
7200	93.9	128.7	15.41	0.519	66.1	43.5	52	222.1
7300	95.2	132.3	15.17	0.519	67.7	43.5	53	224.3
7400	99.6	140.3	11.98	0.671	92.9	43.1	52	243.2
7500	100.1	142.8	11.81	0.683	96.3	43.1	51	248.5
7600	99.7	144.2	11.63	0.692	98.7	43.1	51	250.7

7700	99.1	145.1	11.62	0.695	99.5	42.9	52	252.5
7800	96.7	143.7	11.45	0.713	101.1	43.1	52	252.9
7900	89.3	134.3	11.65	0.749	99.3	43.1	52	252.8

05 F7 EFI all stock stock ypipe Speedwerx single pipe and Speedwerx can

EngSpd RPM	STPTrq Clb-ft	STPPwr CHp	A/F Ratio	BSFC lb/hph	Fuel A lb/hr	FUEL-P psig	AirTmp degF	Air1+2 scfm
5800	77.3	85.3	15.21	0.605	51.1	43.8	49	169.7
5900	77.9	87.5	15.04	0.597	51.6	43.7	50	169.5
6000	79.4	90.7	15.05	0.581	52.1	43.7	50	171.3
6100	79.9	92.8	15.18	0.568	52.1	43.7	51	172.5
6200	81.1	95.6	15.21	0.558	52.8	43.8	50	175.4
6300	81.1	97.2	15.14	0.557	53.5	43.7	50	176.9
6400	81.8	99.7	15.14	0.546	53.8	43.7	50	177.9
6500	84.4	104.5	14.76	0.545	56.3	43.7	50	181.5
6600	86.9	109.1	14.46	0.544	58.7	43.7	50	185.4
6700	87.9	112.1	14.44	0.539	59.7	43.6	50	188.3
6800	88.3	114.3	14.52	0.532	60.1	43.6	50	190.7
6900	91.3	120.1	13.69	0.551	65.4	43.5	50	195.6
7000	93.1	124.1	13.55	0.551	67.4	43.4	51	199.5
7100	93.6	126.6	13.58	0.545	68.2	43.4	51	202.4
7200	95.1	130.3	13.56	0.541	69.7	43.4	51	206.4
7300	95.8	133.1	13.47	0.539	71.1	43.4	50	209.1
7400	97.2	136.9	11.41	0.663	89.8	43.1	50	223.6
7500	99.3	141.8	11.21	0.678	95.1	43.1	50	232.6
7600	99.1	143.2	11.22	0.675	95.6	43.1	50	234.4
7700	99.4	145.7	11.33	0.669	96.4	43.1	50	238.6
7800	98.8	146.7	11.46	0.664	96.4	43.1	50	241.3
7900	99.2	149.2	11.81	0.641	94.4	43.1	51	243.6
8000	97.9	149.1	12.04	0.633	93.3	43.1	51	245.4
8100	96.7	149.1	12.35	0.625	92.1	43.1	51	248.5
8200	94.3	147.2	12.55	0.629	91.4	43.1	51	250.5
8300	84.4	133.4	12.71	0.685	90.2	43.1	52	250.5

05 EFI F7, all stock, stock Ypipe, Speedwerx single, stock muffler

EngSpd RPM	STPTrq Clb-ft	STPPwr CHp	A/F Ratio	BSFC lb/hph	Fuel A lb/hr	FUEL-P psig	AirTmp degF	Air1+2 scfm
5600	73.8	78.7	15.73	0.622	48.3	43.8	52	166.1
5700	74.3	80.6	15.76	0.611	48.5	43.8	52	167.1
5800	76.6	84.6	15.79	0.593	49.6	43.8	51	171.1
5900	78.4	88.1	16.03	0.578	50.3	43.7	50	176.2
6000	78.7	89.9	16.21	0.565	50.2	43.8	50	177.8
6100	79.9	92.8	15.83	0.565	51.8	43.7	51	179.1
6200	80.6	95.1	15.77	0.557	52.3	43.8	52	180.2
6300	82.6	99.1	15.76	0.545	53.3	43.8	52	183.5
6400	82.4	100.4	15.75	0.541	53.7	43.8	51	184.8
6500	84.9	105.1	15.71	0.533	55.3	43.7	51	189.8
6600	86.5	108.8	15.69	0.522	56.1	43.7	51	192.3
6700	89.1	113.5	15.37	0.523	58.6	43.6	51	196.8

6800	90.8	117.6	15.18	0.519	60.3	43.6	51	200.1
6900	92.9	122.1	14.54	0.531	63.8	43.5	52	202.6
7000	92.5	123.3	14.49	0.531	64.5	43.5	52	204.2
7100	95.6	129.2	14.19	0.537	68.4	43.5	52	212.1
7200	95.8	131.3	14.44	0.527	68.3	43.5	51	215.4
7300	98.4	136.7	13.03	0.583	78.7	43.1	51	224.1
7400	100.5	141.6	12.03	0.641	89.7	43.1	51	235.8
7500	101.8	145.4	11.82	0.649	93.3	43.1	51	241.1
7600	102.3	148.1	11.69	0.653	95.6	43.1	51	244.2
7700	102.6	150.5	11.71	0.651	96.8	43.1	51	247.5
7800	101.8	151.2	11.84	0.646	96.5	43.1	51	249.7
7900	101.1	152.1	12.17	0.631	94.6	43.1	51	251.6
8000	99.7	151.9	12.38	0.625	93.8	43.1	51	253.6
8100	96.7	149.1	12.83	0.621	91.4	43.1	51	256.2

05 F7 EFI, all stock, stock ypipe, Bikeman modified stock F7 pipe, stock muffler

EngSpd	STPTrq	STPPwr	A/F	BSFC	Fuel A	FUEL-P	AirTmp	Air1+2
RPM	Clb-ft	CHp	Ratio	lb/hph	lb/hr	psig	degF	scfm
5800	74.8	82.6	16.67	0.605	49.4	43.8	51	179.9
5900	76.1	85.5	16.65	0.588	49.7	43.8	51	180.8
6000	77.8	88.9	16.37	0.591	51.8	43.7	51	185.2
6100	78.1	90.6	16.45	0.581	51.9	43.8	52	186.5
6200	79.1	93.4	16.46	0.567	52.3	43.8	52	188.1
6300	80.1	96.1	16.87	0.549	52.1	43.8	52	192.1
6400	80.8	98.5	16.81	0.539	52.4	43.8	52	192.3
6500	82.4	101.9	16.33	0.548	55.2	43.8	51	196.9
6600	86.5	108.7	15.84	0.543	58.3	43.7	51	201.7
6700	87.6	111.8	15.83	0.533	58.9	43.7	51	203.7
6800	88.4	114.5	15.85	0.525	59.3	43.7	52	205.3
6900	91.6	120.3	14.95	0.539	63.9	43.6	53	208.7
7000	92.9	123.8	14.71	0.542	66.2	43.6	52	212.7
7100	93.7	126.7	14.72	0.543	67.9	43.5	52	218.3
7200	93.5	128.2	14.81	0.538	68.1	43.5	52	220.2
7300	95.1	132.1	14.71	0.531	69.2	43.4	52	222.4
7400	101.1	142.3	12.14	0.647	91.1	43.1	51	241.3
7500	101.5	144.9	11.99	0.653	93.5	43.1	51	244.9
7600	101.9	147.4	11.91	0.657	95.9	43.1	50	249.4
7700	102.5	150.3	12.04	0.647	96.2	42.9	50	253.1
7800	102.1	151.5	12.07	0.645	96.6	43.1	50	254.8
7900	102.1	153.6	12.57	0.621	94.1	43.1	51	258.4
8000	100.7	153.4	12.63	0.622	94.2	43.1	51	259.9
8100	97.4	150.1	13.09	0.621	92.1	43.1	52	263.4
8200	91.5	142.8	13.13	0.655	92.4	43.2	52	265.1

