

#Encoding: UTF-8  
 #App name: ECU Connect  
 #App version: 6.10.1.478  
 #Vehicle: BMW B58  
 #VIN: WZ1DB4C0XLW022668  
 #Ecu name: BMW B58 ECM  
 #Ecu CALID: 00006354-060-110-005  
 #Ecu RaceROM version: 55642  
 #Ecu rom hash: 051DB09D  
 #Ecu programming dongle ID: 6DC617  
 #Ecu programming date: 2025-01-16T12:08:02  
 #Ecu programming count: 8  
 #Ecu programming comment: Racebox V1  
 #Logging profile: B58TU DI

Time (s)	Log Mark	Accelerator	Boost Pres:	Boost Pres:	Boost Pres:	CAN Error (CAN Input	Cylinder Fil
0	0	100	16.1	14.8	31.8	0	72.43
0.1	0	100	8.6	14.3	27.7	0	74.61
0.2	0	100	13.4	14.7	28.1	0	76.5
0.3	0	100	13.2	15	28.5	0	79.68
0.4	0	100	13.2	15.4	29.1	0	81.47
0.5	0	100	13.5	15.9	29.8	0	82.86
0.6	0	100	13.5	16.4	29.5	0	86.82
0.7	0	100	12.7	16.8	27.8	0	93.18
0.801	0	100	10.5	17.4	27.2	0	96.6
0.9	0	100	9.2	18.1	27.1	0	100.7
1	0	100	8.5	18.7	27.1	0	105.45
1.1	0	100	7.8	19.5	27.2	0	110.37
1.2	0	100	7	20.4	27.1	0	116.03
1.3	0	100	6	21.4	27.1	0	122.08
1.401	0	100	5	22.3	27.1	0	126.58
1.5	0	100	4.3	23	27.1	0	130.12
1.6	0	100	3.7	23.5	27.2	0	132.46
1.7	0	100	3.4	23.9	27.2	0	134.68
1.8	0	100	3	24.3	27.3	0	136.16
1.9	0	100	2.8	24.6	27.4	0	137.18
2	0	100	2.7	24.8	27.4	0	138.98
2.1	0	100	2.5	25	27.6	0	139.66
2.2	0	100	2.4	25.3	27.7	0	140.81
2.301	0	100	2.3	25.5	27.9	0	141.53
2.4	0	100	2.3	25.7	28.1	0	142.67
2.5	0	100	2.2	25.9	28.2	0	143.72
2.6	0	100	2.2	26	28.3	0	144.71
2.7	0	100	2.2	26.2	28.4	0	145.41
2.8	0	100	2.2	26.3	28.5	0	145.95
2.901	0	100	2.2	26.3	28.6	0	146.06
3	0	100	2.3	26.4	28.8	0	145.97
3.1	0	100	2.4	26.4	29	0	145.56

3.2	0	100	2.6	26.5	29.3	0	0	145.13
3.3	0	100	2.8	26.6	29.6	0	0	144.7
3.4	0	100	2.9	26.8	30	0	0	144.93
3.501	0	100	3	27.1	30.3	0	0	146.11
3.6	0	100	3.1	27.4	30.6	0	0	146.75
3.7	0	100	3.1	27.7	30.9	0	0	148.16
3.801	0	100	3.1	28	31.4	0	0	148.85
3.9	0	100	3.2	28.2	31.7	0	0	149.12
4	0	100	3.4	28.6	32.3	0	0	149.63
4.1	0	100	3.4	29.1	32.4	0	0	153.91
4.2	0	100	2.8	29.9	33	0	0	154.36
4.3	0	100	2.9	30.3	33.8	0	0	154.16
4.4	0	100	3.2	30.9	34.4	0	0	154.02
4.5	0	100	3	31.7	35.2	0	0	155.52
4.6	0	100	2.9	32.4	35.8	0	0	157.23
4.7	0	100	2.8	33.4	35.7	0	0	161.46
4.8	0	100	1.7	34.1	35.3	0	0	149.76
4.9	0	100	-14.4	45.6	32.3	0	0	154.32
5	0	100	-8.9	39.8	32.5	0	0	162.08
5.1	0	100	-2.3	32.4	30.8	0	0	158.18
5.2	0	100	1.9	28.7	30.9	0	0	153.88
5.3	0	100	2.6	28.2	31.1	0	0	153.07
5.4	0	100	2.9	28.4	31.4	0	0	153.13
5.5	0	100	2.8	28.7	31.6	0	0	154.1
5.601	0	100	2.8	28.9	31.9	0	0	155.07
5.7	0	100	2.8	29.2	32	0	0	156.5
5.8	0	100	2.8	29.4	32.3	0	0	157.21
5.9	0	100	2.8	29.7	32.5	0	0	158.81
6	0	100	2.6	30.2	32.7	0	0	160.92
6.1	0	100	2.4	30.5	33.2	0	0	160.9
6.2	0	100	2.5	30.9	33.5	0	0	161.72
6.3	0	100	2.5	31.3	33.8	0	0	162.75
6.4	0	100	2.3	31.6	34.2	0	0	163.4
6.501	0	100	2.4	31.9	34.6	0	0	163.91
6.6	0	100	2.4	32.3	35.3	0	0	164.13
6.7	0	0	-2.8	33	21.6	0	0	113.23
6.8	0	0	-19	40.1	14.9	0	0	41.96
6.9	0	0	-17.5	27	14.9	0	0	19.37
7	0	0	-12.1	24	14.9	0	0	14.21
7.101	0	0	-9	22.4	14.9	0	0	13.95
7.2	0	0	-6.6	22	14.9	0	0	13.61
7.3	0	0	-5.5	20.9	14.9	0	0	13.85
7.4	0	0	-5.4	20	14.9	0	0	13.57
7.5	0	0	-4.6	19.4	14.9	0	0	13.75
7.6	0	0	-4.1	18.7	14.9	0	0	13.57
7.7	0	0	-3.6	18.4	14.9	0	0	13.82
7.8	0	0	-3.3	18.2	14.9	0	0	13.85

7.9	0	0	-3.1	17.8	14.9	0	0	13.62
8.001	0	0	-2.8	17.7	14.9	0	0	13.32
8.1	0	0	-2.7	17.4	14.9	0	0	13.67

Cylinder Fil	Cylinder Fil	Cylinder Fil	Cylinder Fil	Electric Fuel	Engine Oil I	Engine Oil I	Engine Spe	Engine Terr
45.12	240	0	4	59.45	46.3	234	2829	223.3
155.39	240	0	4	60.93	64.4	234	2724	223.3
154.69	240	0	4	60.55	76.4	234	2820	223.3
154.45	240	0	4	60.96	84.5	234	2848	223.3
154.12	240	0	4	61.48	81.5	234	2927	223.3
153.75	240	0	4	61.89	81.9	234	2968	223.3
152.6	240	0	4	62.05	78.2	234	3045	223.3
152.51	240	0	4	62.68	73.8	234	3112	223.1
151.97	240	0	4	63.5	79.6	234	3177	223.1
152.13	240	0	4	64	75.7	234	3254	223.1
152.27	240	0	4	64.49	76.9	234	3323	223.1
152.41	240	0	4	65.12	77.3	234	3421	223.1
152.46	240	0	4	65.93	76.8	234	3508	223.1
152.25	240	0	4	67.03	77.8	234	3602	223.1
151.97	240	0	4	68.27	75.9	234	3698	223.1
151.88	240	0	4	69.24	72.7	234	3802	223.1
151.78	240	0	4	70.2	75.3	234	3936	222.9
151.97	240	0	4	71.18	75.3	234	4025	222.9
152.09	240	0	4	72.04	75.3	234	4096	222.9
152.46	240	0	4	70.29	76.9	234	4241	222.9
153.05	240	0	4	66.73	76.4	234	4315	222.9
153.56	240	0	4	67.06	79.1	234	4450	222.9
154.03	240	0	4	67.76	75.2	234	4520	222.9
154.64	240	0	4	68.55	76.1	234	4669	222.9
155.48	240	0	4	69.39	76.2	234	4740	222.9
156.21	240	0	4	70.21	74.8	234	4849	222.9
156.87	240	0	4	71.01	76.6	234	4958	222.9
157.73	240	0	4	71.65	76.9	234	5068	222.7
158.51	240	0	4	72.45	77.1	234	5162	222.7
159.05	240	0	4	73	77.5	234	5271	222.9
159.7	240	0	4	73.54	77.1	234	5361	222.7
160.38	240	0	4	73.87	77.8	234	5465	222.7

160.76	240	0	4	74.23	77.8	234	5594	222.9
161.44	240	0	4	74.61	76.2	235	5665	222.9
161.88	240	0	4	74.79	79.6	235	5765	222.9
162.82	240	0	4	75.35	79.8	235	5837	222.9
163.8	240	0	4	76.16	81.2	235	5930	222.9
164.88	240	0	4	76.6	81	235	6027	222.9
166.01	240	0	4	77.4	79.6	235	6178	223.1
167.16	240	0	4	78.33	77.6	235	6316	223.1
168.35	240	0	4	78.85	78.5	235	6430	223.1
169.43	240	0	4	79.5	80.8	235	6379	223.1
170.2	240	0	4	80.47	76.9	235	6491	223.3
171.38	240	0	4	81.16	80.1	239	6591	223.3
171.8	240	0	4	81.7	77.8	239	6672	223.3
172.71	240	0	4	82.12	77.1	239	6765	223.5
173.88	240	0	4	92	77.8	239	6860	223.5
175.15	240	0	4	92	78.3	239	6853	223.6
154.88	240	0	4	92	76.6	239	6478	223.6
118.85	240	0	4	92	76.1	239	5765	223.6
169.45	240	0	4	92	78	239	5663	223.6
169.99	240	0	4	92	80.8	239	5720	223.6
169.52	240	0	4	92	82.4	239	5788	223.5
168.96	240	0	4	92	80.5	244	5849	223.3
169.5	240	0	4	92	82.3	244	5894	222.9
169.95	240	0	4	92	81.5	244	5971	222.4
170.72	240	0	4	92	81.5	244	6023	221.8
171.42	240	0	4	92	81.4	244	6095	221.3
172.55	240	0	4	92	82.1	244	6149	220.6
173.04	240	0	4	92	78.5	244	6212	219.9
174.14	240	0	4	92	78.9	244	6222	219.1
174.96	240	0	4	92	79.4	244	6322	218.4
175.62	240	0	4	92	79.4	244	6391	217.5
176.41	240	0	4	92	79.2	248	6420	216.8
176.93	240	0	4	92	79.8	248	6478	215.9
177.54	240	0	4	92	79.8	248	6518	215.2
178.27	240	0	4	92	81.9	248	6609	214.3
141.87	240	0	4	92	77.1	248	6552	213.6
77.23	240	0	2	92	76.1	248	6510	212.8
26.88	240	0	4	92	83.5	248	6501	212.1
14.6	240	0	4	92	83.1	248	6497	211.4
14.37	240	0	4	92	79.9	248	6385	210.9
14.18	240	0	4	92	76.8	248	6371	210.1
14.16	240	0	4	92	80.1	252	6267	209.6
14.06	240	0	4	92	81	252	6207	209.1
14.04	240	0	4	92	79.8	252	6178	208.5
13.99	240	0	4	92	82.6	252	6099	208
13.97	240	0	4	92	81.4	252	6082	207.4
13.92	240	0	4	92	80.7	252	5985	207.1

13.9	240	0	4	92	78.9	252	5941	206.5
13.83	240	0	4	92	78.2	252	5863	206.2
13.78	240	0	4	92	80.8	252	5808	205.6

Exhaust Ca	Exhaust Fla	Flex Fuel Et	Fuel Injecti	Fuel Rail pr	Fuel Rail Pr	Fuel Trim L	Fuel Trim S	Gear - curr
117.3	0	28	23.93	12.56	14.05	-6.74	11.72	3
109.4	0	28	37.41	14.86	15.54	-6.74	2.77	3
102.4	0	28	36.31	16.7	17.04	-6.74	0	3
101	0	28	37.83	17.94	18.53	-6.74	0.78	3
101.1	0	28	40.42	19.58	20.03	-6.74	4.24	3
102.1	0	28	41.39	21.22	21.52	-6.74	4.97	3
102.6	0	28	41.86	22.46	23.02	-6.74	2.77	3
103.3	0	28	44.74	24.26	24.51	-6.74	4.45	3
105	0	28	47.71	25.75	26.01	-6.74	5.77	3
105.1	0	28	49.41	27.26	27.5	-6.74	4.32	3
104.7	0	28	50.25	28.81	29	-6.74	2.6	3
104.5	0	28	52.33	30.36	30.49	-6.74	1.93	3
104.7	0	28	55.47	31.72	31.99	-6.74	2.63	3
104.3	0	28	59.49	33.17	33.45	-6.74	3.26	3
105.3	0	28	63.44	34.14	34.28	-6.74	3.99	3
104.5	0	28	65.98	34.37	34.67	-6.74	3.8	3
105.7	0	28	68.4	34.59	34.85	-6.74	4.47	3
105.9	0	28	70.52	34.89	34.93	-6.74	4.84	3
105.9	0	28	72.08	34.93	35	-6.74	5.31	3
106.6	0	28	73.4	34.93	35	-6.74	5.65	3
106.6	0	28	74.63	34.87	35	-6.74	5.95	3
107	0	28	75.98	34.81	35	-6.74	6.3	3
107.9	0	28	76.83	34.6	35	-6.74	6.36	3
108.1	0	28	78.1	34.7	35	-6.74	6.58	3
109.1	0	28	78.7	34.71	35	-6.74	6.62	3
108.4	0	28	80.1	34.97	35	-6.74	6.67	3
109.5	0	28	81.07	34.97	35	-6.74	6.59	3
108.1	0	28	81.75	34.87	35	-6.74	6.24	3
109.5	0	28	82.17	35.1	35	-6.74	5.89	3
109.5	0	28	82.3	34.88	35	-6.74	5.53	3
109.6	0	28	82.09	35.32	35	-6.74	5.12	3
107.1	0	28	81.88	35.18	35	-6.74	4.81	3

108.3	0	28	81.41	35.15	35	-6.74	4.59	3
109	0	28	80.69	34.85	35	-6.74	4.17	3
106.9	0	28	80.31	34.93	35	-6.74	4.03	3
110.6	0	28	80.9	35.26	35	-6.74	3.96	3
107.9	0	28	81.2	35.02	35	-6.74	3.79	3
108.2	0	28	82.3	34.73	35	-6.74	3.64	3
107.7	0	28	82.72	34.68	35	-6.74	3.19	3
108.9	0	28	82.68	34.87	35	-6.74	2.78	3
108.1	0	28	0	34.94	35	-6.74	2.33	3
108.7	0	28	0	34.8	35	-6.74	2.06	3
107.6	0	28	0	34.67	35	-6.74	1.86	3
107.5	0	28	0	34.85	35	-6.74	1.58	3
104.8	0	28	0	35.04	35	-6.74	1.67	3
104.5	0	28	0	34.79	35	-6.74	1.87	4
103.5	0	28	0	34.81	35	-6.74	2.19	4
102.9	0	28	0	34.6	35	-6.74	1.99	4
101.7	0	28	0	34.41	35	-6.74	1.7	4
102.6	0	28	0	34.81	35	-6.74	1.85	4
110.5	0	28	0	34.94	35	-6.74	2.95	4
117	0	28	0	35.37	35	-6.74	0.63	4
115.1	0	28	0	35.07	35	-6.74	0.76	4
112.7	0	28	0	35.38	35	-6.74	1.25	4
110.9	0	28	0	34.98	35	-6.74	1.52	4
111.7	0	28	0	34.95	35	-6.74	1.62	4
111.5	0	28	0	34.96	35	-6.74	1.61	4
110.7	0	28	0	35	35	-6.74	1.53	4
109	0	28	0	35.05	35	-6.74	1.54	4
109.3	0	28	0	34.85	35	-6.74	1.3	4
107	0	28	0	35.12	35	-6.74	1.23	4
106.5	0	28	0	34.55	35	-6.74	1.06	4
107.2	0	28	0	34.84	35	-6.74	0.91	4
107.3	0	28	0	34.98	35	-6.74	0.86	4
105.7	0	28	0	35.15	35	-6.74	0.87	4
105	0	28	0	34.8	35	-6.74	0.78	4
103.2	0	28	0	34.64	35	-6.74	0.7	4
101.8	0	28	0	35.04	35	-6.74	0.55	4
111	0	28	32.53	36.75	35	-6.74	0	4
114	0	28	15.58	36.67	33.65	-6.74	0	4
120	0	28	7.02	35.64	32.16	-6.74	0	4
119.9	0	28	6.72	34.72	30.66	-6.74	0	4
120.1	0	28	6.93	32.94	29.17	-6.74	6.93	4
120.2	0	28	7.74	31.31	27.67	-6.74	22.06	4
120.2	0	28	7.69	29.75	26.18	-6.74	20.48	4
120.4	0	28	7.02	28.21	24.68	-6.74	11	4
120.3	0	28	7.27	26.47	23.19	-6.74	10.77	4
120.2	0	28	6.97	24.7	21.69	-6.74	10.11	4
120.2	0	28	7.19	23.17	20.19	-6.74	10.36	4

120.3	0	28	7.06	21.4	18.7	-6.74	8.88	4
120.3	0	28	7.23	19.77	17.2	-6.74	9.91	4
120.3	0	28	7.1	18.21	15.71	-6.73	8.83	4



0	-0.5	14.5	14.5	14.5	14.5	14.5	14.5	1
0	-0.5	14.5	14.5	14.5	14.5	14.5	14.5	1
0	-0.5	14.5	14.5	14.5	14.5	14.5	14.5	1
0	-0.5	14.5	14.5	14.5	14.5	14.5	14.5	1
0	-0.5	14.5	14.5	14.5	14.5	14.5	14.5	1
0	-0.5	14.5	14.5	14.5	14.5	14.5	14.5	1
0	-0.5	14.5	14.5	14.5	14.5	14.5	14.5	1
0	-0.5	14.5	14.5	14.5	14.5	14.5	14.5	1
0	-0.5	14.5	14.5	14.5	14.5	14.5	14.5	1
0	-0.5	14.5	14.5	14.5	14.5	14.5	14.5	2
0	-0.5	13.5	13.5	13.5	13.5	13.5	13.5	2
0	-0.5	12.5	12.5	12.5	12.5	12.5	12.5	2
0	-0.5	12.5	12.5	12.5	12.5	12.5	12.5	2
0	-0.5	13.5	12.5	12.5	13.5	13.5	13.5	2
0	-0.5	12.5	12.5	13.5	13.5	13.5	13.5	2
0	-0.5	12.5	12.5	12.5	12.5	12.5	12.5	2
0	-0.5	11.5	11.5	11.5	11.5	11.5	11.5	2
0	-0.5	1.9	3.1	2	3.5	1.9	2	2
0	-0.5	-1.3	-2.2	-2.9	-1.3	-3.5	-2.7	2
0	-0.5	1.8	4.2	1.6	4.2	1.8	4.3	2
0	-0.8	11.5	11.5	11.5	11.5	11.5	11.5	2
0	-0.3	12.5	12.5	12.5	10.2	12.5	12.5	2
0	-0.3	13	13	13	10.7	13	13	2
0	-0.3	13	13	13	10.7	13	13	2
0	-0.3	13	13	13	10.7	13	13	2
0	-0.3	13	13	13	11.1	13	13	2
0	-0.3	13	13	13	11.1	13	13	2
0	-0.3	13	13	13	11.1	13	13	2
0	-0.2	12	12	12	10.1	12	12	2
0	-0.2	12	12	12	10.5	12	12	2
0	-0.2	12	12	12	10.5	12	12	2
0	-0.2	12	12	12	10.5	12	12	2
0	-0.2	12	12	12	10.5	12	12	2
0	-0.2	12	12	12	10.8	12	12	2
0	-0.2	12	12	12	10.8	12	12	2
0	-0.2	12	12	12	10.8	12	12	2
11	-0.8	10.7	9.5	8.8	10.8	8.3	9.5	2
27	-0.8	24.2	23.2	22.2	23.2	24.2	22.2	1
42	0	24.8	21.6	19.3	23.4	17.1	19.3	1
58	0	32.5	32.8	31.1	32.5	29.5	30	1
74	0	7.3	8.7	6.6	8	6.6	9.4	1
89	0	-13.7	-15.8	-15.1	-13	-14.4	-15.8	1
100	0	-38.2	-37.5	-36.1	-38.2	-35.4	-36.8	1
100	0	-39	-39	-39	-39	-39	-39	1
100	0	-39	-39	-39	-39	-39	-39	1
100	0	-39.5	-39.5	-39.5	-39.5	-39.5	-39.5	1
100	0	-39.5	-39.5	-39.5	-39.5	-39.5	-39.5	1
100	0	-40	-40	-40	-40	-40	-40	1

100	0	-40	-39.5	-39.5	-40	-39.5	-39.5	1
100	0	-39.5	-39.5	-39.5	-39.5	-39.5	-39.5	1
100	0	-39	-39	-39	-39	-39	-39	1

	Intake Air T	Intake Cam	Intake Mar	Knock Reta	Knock Reta	Knock Reta	Knock Reta	Knock Reta	Knock Reta
95	110.7	14.1	0	0	0	0	0	0	0
95	106.8	14.4	0	0	0	0	0	0	0
95	98.5	14.8	0	0	0	0	0	0	0
95	92.1	15.1	0	0	0	0	0	0	0
94	86.1	15.5	0	0	0	0	0	0	0
94	81.1	16	0	0	0	0	0	0	0
94	81.6	16.5	0	0	0	0	0	0	0
94	88.3	17	0	0	0	0	0	0	0
94	97.8	17.7	0	0	0	0	0	0	0
93	99.9	18.3	0	0	0	0	0	0	0
93	100.1	19.1	-0.4	0	0	-3	0	0	0
93	99.1	19.8	-0.4	0	0	-3	0	0	0
93	98.3	20.7	-0.4	0	0	-3	0	0	0
93	97	21.7	-0.4	0	0	-3	0	0	0
93	95.2	22.5	-0.8	0	0	-2.6	-3	0	0
93	95.4	23.1	-0.8	0	0	-2.6	-3	0	0
91	95.9	23.5	-0.8	0	0	-2.6	-3	0	0
91	96.1	23.9	-0.8	0	0	-2.6	-3	0	0
91	95.6	24.2	-0.8	0	0	-2.2	-2.6	0	0
91	96.5	24.4	-0.8	0	0	-2.2	-2.6	0	0
91	96.8	24.7	-0.8	0	0	-2.2	-2.6	0	0
91	96.6	24.9	-0.8	0	0	-2.2	-2.6	0	0
90	97.1	25.2	-0.4	0	0	-1.9	-2.2	0	0
90	97.3	25.3	-0.4	0	0	-1.9	-2.2	0	0
90	98.3	25.5	0	0	0	-0.8	-1.1	0	0
90	97.7	25.7	0	0	0	0	0	0	0
90	98.7	25.8	0	0	0	0	0	0	0
90	98.9	25.9	0	0	0	0	0	0	0
90	98.6	26	0	0	0	0	0	0	0
90	98.9	26	0	0	0	0	0	0	0
90	99.3	26.1	0	0	0	0	0	0	0
90	98.8	26.1	0	0	0	0	0	0	0

90	99	26.2	0	0	0	0	0	0
90	98.7	26.3	0	0	0	0	0	0
90	98.1	26.6	0	0	0	0	0	0
90	99.3	26.9	0	0	0	0	0	0
90	98.8	27.1	0	0	0	0	0	0
90	99.2	27.4	0	0	0	0	0	0
90	99.5	27.7	0	0	0	0	0	0
90	100.4	28	0	0	0	0	0	0
90	100.6	28.4	0	0	0	0	0	0
90	100.7	29	0	0	0	0	0	0
90	100.5	29.6	0	0	0	0	0	0
90	100.3	30	0	0	0	0	0	0
90	99.4	30.6	0	0	0	0	0	0
90	99.7	31.3	0	0	0	0	0	0
91	100.3	32.1	0	0	0	0	0	0
91	100.7	33	0	0	0	0	0	0
91	100.4	29.3	0	0	0	0	0	0
91	100.1	28.6	0	0	0	0	0	0
91	99.1	29.3	0	0	0	0	0	0
93	99.8	28.4	-0.4	0	0	0	0	0
93	99.1	27.9	-0.4	0	0	0	0	0
93	99.3	27.9	-0.4	0	0	0	0	0
93	98.2	28	-0.4	0	0	0	0	0
93	98.8	28.3	0	0	0	0	0	0
94	99	28.6	0	0	0	0	0	0
94	100.1	28.9	0	0	0	0	0	0
94	100.1	29	0	0	0	0	0	0
94	100.6	29.4	0	0	0	0	0	0
94	100.4	29.9	0	0	0	0	0	0
95	100.3	30.1	0	0	0	0	0	0
95	100.7	30.5	0	0	0	0	0	0
95	100.7	30.8	0	0	0	0	0	0
95	100.9	31.2	0	0	0	0	0	0
95	100.9	31.6	0	0	0	0	0	0
97	101.3	32	0	0	0	0	0	0
97	102	28.9	0	0	0	0	0	0
97	95.6	24.1	0	0	0	0	0	0
97	92.8	19.9	0	-0.8	-0.8	-0.8	-0.8	-0.8
97	110.1	18.6	0	-0.8	-0.8	-0.8	-0.8	-0.8
97	110.1	17.3	0	-0.8	-0.8	-0.8	-0.8	-0.8
97	112.5	16.3	0	-0.8	-0.8	-0.8	-0.8	-0.8
97	115.6	15.6	0	-0.8	-0.8	-0.8	-0.8	-0.8
97	117.6	15.2	0	-0.8	-0.8	-0.8	-0.8	-0.8
97	117.8	14.9	0	-0.8	-0.8	-0.8	-0.8	-0.8
97	117.1	14.5	0	-0.8	-0.8	-0.8	-0.8	-0.8
97	117	14.4	0	-0.8	-0.8	-0.8	-0.8	-0.8
97	117.3	14.3	0	-0.8	-0.8	-0.8	-0.8	-0.8

97	117.6	14.2	0	-0.8	-0.8	-0.8	-0.8	-0.8
95	117.2	14.2	0	-0.8	-0.8	-0.8	-0.8	-0.8
95	117.5	14.1	0	-0.8	-0.8	-0.8	-0.8	-0.8

Knock	Reta	Lambda Ac	Lambda sel	Lambda Ta	Manifold P	Manifold R	Mapswitch	Mass Airflo	Mass Airflo
0	0.964	0	1	14.8	-0.9	2	148.8	157.5	
0	0.882	0	1	27.6	-0.5	2	243	504.3	
0	0.928	0	1	28	-0.1	2	239.1	488.7	
0	0.997	0	1	28.3	0.3	2	256.4	509.1	
0	1.008	0	1	28.9	0.7	2	268.7	512.7	
0	0.988	0	1	29.7	1.1	2	278.7	524.2	
0	0.983	0	1	29.3	1.6	2	293.8	530.1	
0	0.998	0	1	27.7	2.2	2	314.8	541.8	
0	0.993	0	1	27	2.8	2	341.6	552	
0	0.978	0	1	27	3.4	2	365.7	564	
0	0.982	0	1	27	4.2	2	390.6	578.9	
0	0.986	0	1	27	5	2	417.6	593.1	
0	0.992	0	0.996	26.9	5.8	2	449.6	608.3	
0	0.993	0	0.987	26.9	6.9	2	488.2	625.5	
0	0.99	0	0.977	26.9	7.6	2	525.7	642.7	
0	0.979	0	0.968	26.9	8.2	2	556.4	657	
0	0.98	0	0.961	27	8.6	2	586.1	677.7	
0	0.966	0	0.955	27	9.1	2	612.7	696.5	
0	0.96	0	0.95	27	9.3	2	637.1	716.1	
0	0.954	0	0.946	27.2	9.6	2	658.1	733.6	
0	0.946	0	0.941	27.2	9.9	2	682.9	756.3	
0	0.943	0	0.936	27.3	10.1	2	708	778.2	
0	0.936	0	0.932	27.4	10.3	2	726.5	798.3	
0	0.931	0	0.926	27.6	10.4	2	749.2	819	
0	0.923	0	0.922	27.8	10.7	2	771.9	846.7	
0	0.918	0	0.916	27.9	10.8	2	797.9	869.7	
0	0.911	0	0.911	28	11	2	819.6	891	
0	0.901	0	0.905	28.1	11.1	2	838.9	911.4	
0	0.893	0	0.902	28.2	11.1	2	863.7	941.8	
0	0.889	0	0.899	28.3	11.2	2	883.1	958.3	
0	0.885	0	0.898	28.5	11.2	2	901.7	986.1	
0	0.886	0	0.897	28.6	11.3	2	916.5	1004.8	

0	0.888	0	0.897	29	11.4	2	930.9	1029.3
0	0.885	0	0.899	29.2	11.4	2	944.7	1052.3
0	0.89	0	0.9	29.6	11.7	2	956	1071
0	0.893	0	0.897	29.9	12	2	975.2	1090.6
0	0.889	0	0.896	30.2	12.2	2	1001.5	1124.6
0	0.889	0	0.891	30.5	12.6	2	1023.7	1140.3
0	0.879	0	0.888	30.9	12.8	2	1052	1171.1
0	0.875	0	0.888	31.2	13.1	2	1073.5	1210.3
0	0.87	0	0.888	31.8	13.6	2	1097.5	1241.5
0	0.876	0	0.882	31.9	14.1	2	1123.9	1259.1
0	0.872	0	0.871	32.5	14.7	2	1150.3	1261.4
0	0.862	0	0.872	33.2	15.2	2	1172.2	1302
0	0.866	0	0.872	33.8	15.6	2	1185.7	1321.5
0	0.87	0	0.873	34.6	16.4	2	1202.4	1349.4
0	0.874	0	0.866	35.2	17.2	2	1232.1	1367.5
0	0.857	0	0.859	33.8	18	2	1260.5	1395.5
0	0.847	0	0.852	22.4	15.3	2	1282.6	1193.8
0	0.853	0	0.921	31.1	13.2	2	948.4	946.6
0	0.947	0	0.85	30.5	14.5	2	1072.7	1110.5
-2.2	0.819	0	0.855	30.4	13.5	2	1062.5	1121.6
-2.2	0.849	0	0.865	30.4	13	2	1040	1125.5
-2.2	0.866	0	0.875	30.7	13	2	1029.9	1139.3
-2.2	0.873	0	0.875	30.9	13.2	2	1044.6	1156
-1.9	0.875	0	0.874	31.2	13.5	2	1056	1167.1
-1.9	0.87	0	0.871	31.4	13.7	2	1071.6	1183
-1.9	0.864	0	0.868	31.5	14	2	1087.5	1199.3
-1.9	0.862	0	0.865	31.8	14.1	2	1113.6	1222.8
-1.5	0.857	0	0.863	32	14.5	2	1125.6	1238.5
-1.5	0.855	0	0.857	32.2	15	2	1152.9	1257.2
-1.5	0.85	0	0.855	32.6	15.3	2	1170.1	1278.1
-1.5	0.849	0	0.853	33	15.7	2	1188.7	1284.3
-1.1	0.846	0	0.853	33.2	15.9	2	1205.3	1308.2
-1.1	0.846	0	0.85	33.7	16.3	2	1222.5	1319.4
-1.1	0.846	0	0.849	34.1	16.7	2	1236	1332.6
-1.1	0.844	0	0.85	34.7	17.1	2	1247.9	1361.1
-0.8	0.843	0	0.851	21.4	14.1	2	1226.9	1040.5
-0.8	0.826	0	1	14.8	9.2	2	514.5	550.6
-0.8	0.899	0	1	14.1	5.1	2	225.7	166.7
-0.8	0.921	0	1	14.1	3.8	2	111.7	108
-0.8	1.019	0	1	14.1	2.5	2	107.3	108
-0.8	1.081	0	1	14.1	1.4	2	100.9	105
-0.8	1.383	0	1	14.1	0.8	2	99	104.5
-0.8	1.092	0	1	14.1	0.4	2	98	101.5
-0.8	0.869	0	1	14.1	0	2	96.6	101.2
-0.8	0.925	0	1	14.1	-0.3	2	97	99.6
-0.8	0.948	0	1	14.1	-0.4	2	95.1	99.5
-0.8	0.983	0	1	14.1	-0.6	2	97.5	97.5

-0.8	0.964	0	1	14.1	-0.7	2	95.8	96.6
-0.8	0.991	0	1	14.1	-0.7	2	94	94.5
-0.8	0.976	0	1	14.1	-0.8	2	91.9	93.2

Misfire	Co	Misfire	Co	Misfire	Co	Misfire	Co	Misfire	Co	Misfire	Co	MSV active	Status:	Sup Throttle	Ac
0	0	0	0	0	0	0	0	0	0	48	0	28.6			
0	0	0	0	0	0	0	0	0	0	52	0	85.1			
0	0	0	0	0	0	0	0	0	0	50	0	98.1			
0	0	0	0	0	0	0	0	0	0	54	0	98.1			
0	0	0	0	0	0	0	0	0	0	56	0	98.1			
0	0	0	0	0	0	0	0	0	0	58	0	98			
0	0	0	0	0	0	0	0	0	0	58	0	98			
0	0	0	0	0	0	0	0	0	0	61	0	98			
0	0	0	0	0	0	0	0	0	0	63	0	98			
0	0	0	0	0	0	0	0	0	0	64	0	98			
0	0	0	0	0	0	0	0	0	0	66	0	98			
0	0	0	0	0	0	0	0	0	0	67	0	98			
0	0	0	0	0	0	0	0	0	0	69	0	97.9			
0	0	0	0	0	0	0	0	0	0	71	0	97.9			
0	0	0	0	0	0	0	0	0	0	72	0	97.9			
0	0	0	0	0	0	0	0	0	0	74	0	97.9			
0	0	0	0	0	0	0	0	0	0	76	0	97.9			
0	0	0	0	0	0	0	0	0	0	75	0	97.9			
0	0	0	0	0	0	0	0	0	0	76	0	97.9			
0	0	0	0	0	0	0	0	0	0	77	0	97.9			
0	0	0	0	0	0	0	0	0	0	76	0	97.9			
0	0	0	0	0	0	0	0	0	0	78	0	97.9			
0	0	0	0	0	0	0	0	0	0	78	0	97.9			
0	0	0	0	0	0	0	0	0	0	79	0	98			
0	0	0	0	0	0	0	0	0	0	80	0	98			
0	0	0	0	0	0	0	0	0	0	80	0	98			
0	0	0	0	0	0	0	0	0	0	80	0	98			
0	0	0	0	0	0	0	0	0	0	80	0	98			
0	0	0	0	0	0	0	0	0	0	81	0	98			
0	0	0	0	0	0	0	0	0	0	81	0	98			
0	0	0	0	0	0	0	0	0	0	80	0	98			
0	0	0	0	0	0	0	0	0	0	79	0	98			





Torque - Cl	Torque Des	Torque Lim	Torque Rec	Turbine Ma	Turbine Pre	Turbo Pow	Turbo Pow	Turbo Pow
74	591.6	0	142.5	3.452	1.202	4.273	0.557	7.617
198	565.5	1048576	247.5	1.098	1.725	6.045	0.891	12.232
245	584.3	1048576	249	1.162	1.765	7.492	0	13.445
248.5	592.8	1048576	251.5	1.28	1.765	8.221	0	14.693
265	610.6	1048576	268	1.342	1.767	8.752	0.059	15.613
264.5	622.7	1048576	270.5	1.401	1.778	9.34	0.318	16.717
275.5	639.8	1048576	285.5	1.36	1.792	9.65	0	16.918
293	657	1048576	313.5	1.285	1.811	9.578	0	16.975
320.5	671.2	1048576	326.5	1.187	1.831	9.199	0	16.584
334.5	693.3	1048576	343	1.121	1.853	9.104	0	16.549
349.5	708.6	1048576	359.5	1.06	1.876	9.223	0	16.402
366.5	725.8	1048576	377	1.017	1.902	9.441	0	16.682
383.5	745.2	1048576	397.5	0.949	1.914	9.691	0	16.367
406.5	764.8	1048576	422	0.878	1.894	9.938	0	15.699
430	776.1	1048576	441.5	0.845	1.844	10.225	0	15.271
447	787.7	1048576	455.5	0.816	1.805	10.533	0	15.041
459	802	1048576	464	0.792	1.777	10.906	0	15.059
466	802	1048576	472.5	0.766	1.762	11.275	0	15.076
473	802	1048576	476	0.754	1.757	11.688	0	15.314
477.5	802	1048576	479	0.742	1.766	12.219	0	15.785
480	802	1048576	483.5	0.731	1.77	12.709	0	16.059
485	802	1048576	485.5	0.73	1.785	13.447	0	16.807
486.5	802	1048576	489.5	0.731	1.803	14.188	0	17.418
489.5	802	1048576	487	0.735	1.833	15.086	0	18.459
486.5	802	1048576	486.5	0.737	1.857	15.945	0	19.285
488	802	1048576	488	0.736	1.874	16.838	0	20.18
490	802	1048576	489.5	0.734	1.892	17.758	0	21.016
490	802	1048576	491.5	0.736	1.914	18.758	0	22.023
491	802	1048576	491	0.738	1.935	19.707	0	22.951
490.5	802	1048576	488	0.745	1.961	20.773	0.027	24.172
487	802	1048576	485	0.755	2.001	22.084	0	25.682
482.5	802	1048576	482	0.77	2.045	23.375	0.121	27.498

481.5	802	1048576	478	0.782	2.082	24.518	0.256	29.145
476.5	802	1048576	474.5	0.78	2.106	25.078	0.135	29.936
474.5	802	1048576	472	0.778	2.128	25.668	0	30.656
473	802	1048576	475	0.773	2.138	26.096	0	31.232
474.5	802	1048576	473	0.769	2.158	26.572	0.068	32.16
475.5	802	1048576	476.5	0.757	2.158	27.104	0	32.568
475.5	802	1048576	473	0.754	2.182	27.703	0.104	33.678
472	802	1048576	472.5	0.745	2.194	28.4	0	34.471
466	800	1048576	467	0.743	2.221	29.184	0	35.684
466	800.6	1048576	473.5	0.738	2.214	30.135	0	36.324
476.5	798.9	1048576	475	0.739	2.221	31.371	0	37.529
472.5	797.4	1048576	467.5	0.76	2.291	32.859	0.438	40.475
465.5	793.1	1048576	462	0.762	2.321	34.545	0	41.857
461	790.4	1048576	455.5	0.767	2.367	36.344	0.033	44.004
456.5	786.4	1048576	456.5	0.759	2.38	38.244	0	45.398
453.5	784.8	1048576	443	0.755	2.341	40.191	0	45.449
419.5	798.6	4	339.5	0.857	2.262	35.012	-0.672	34.34
301	802	4	293	0.798	2.129	31.523	0	31.523
369.5	802	4	521.5	0.691	2.056	31.197	0	31.197
513	802	1048576	509	0.727	2.074	30.652	0.592	32.719
500	802	1048576	495	0.743	2.181	30.195	0.689	35.273
493.5	802	1048576	489	0.705	2.183	29.889	0.342	35.311
489	802	1048576	488	0.691	2.162	29.812	0	35.055
488.5	802	1048576	489	0.7	2.172	29.891	0	35.203
490	802	1048576	490.5	0.707	2.18	30.104	0	35.432
489.5	802	1048576	492.5	0.714	2.185	30.408	0	35.646
491	802	1048576	488.5	0.72	2.202	30.82	0.133	36.68
488	802	1048576	491	0.723	2.21	31.631	0	36.938
491	802	1048576	494	0.726	2.215	32.49	0	37.674
494.5	801.8	1048576	492.5	0.734	2.242	33.406	0.092	39.125
493.5	801	1048576	495.5	0.734	2.256	34.432	0	39.828
493.5	800.6	1048576	497	0.74	2.281	35.559	0	41.176
495	799.3	1048576	496.5	0.746	2.306	36.674	0	42.535
496	798.1	1048576	493.5	0.752	2.329	37.814	0	43.955
493	797.4	1048576	486.5	0.768	2.373	39.16	0.311	46.24
487	797.7	0	395	0.489	1.965	30.279	-3.578	20.293
304.5	798.6	0	132	0.84	1.654	10.004	-0.932	4.84
73	798.7	0	-0.5	0.331	1.422	1.195	0	0
-10.5	798.8	0	-30	0.167	1.261	0.262	0	0
-43	800.4	0	-55.5	0.168	1.166	0.184	0	0
-60	800.8	0	-62	0.229	1.109	0.168	0	0
-62	802	0	-62	0.256	1.076	0.164	0	0
-61	802	0	-61	0.251	1.055	0.16	0	0
-61	802	0	-61	0.251	1.044	0.16	0	0
-60	802	0	-59.5	0.246	1.036	0.158	0	0
-60	802	0	-60	0.239	1.032	0.156	0	0
-59	802	0	-58.5	0.236	1.03	0.154	0	0

-58.5	802	0	-58	0.237	1.028	0.154	0	0
-58	802	0	-57.5	0.248	1.027	0.154	0	0
-57.5	802	0	-57.5	0.247	1.026	0.154	0	0

Turbo Pow Vehicle Spε Wastegate Wastegate Target Final Bank 1 (%)

2.787	30.17	0	80.96
5.297	30.37	0	81.63
5.953	31.04	0	82.28
6.473	31.53	0	82.95
6.803	32.16	0	83.62
7.059	32.83	0	84.3
7.268	33.5	0	85
7.396	34.15	0	85.65
7.385	34.86	0	86.21
7.445	35.68	0	86.7
7.18	36.51	0	87.14
7.24	37.36	0	87.55
6.676	38.23	0	87.67
5.762	39.18	0	84.5
5.047	40.2	0	80.98
4.508	41.17	0	78.31
4.152	42.27	0	76.14
3.801	43.5	0	74.5
3.627	44.59	0	72.94
3.566	45.84	0	71.91
3.35	46.98	0	71.16
3.359	48.2	0	70.05
3.23	49.29	0	69.6
3.373	50.46	0	68.83
3.34	51.57	0	68.84
3.342	52.82	0	68.33
3.258	54.05	0	67.93
3.266	55.2	0	67.42
3.244	56.45	0	67.36
3.371	57.5	0	67.15
3.598	58.61	0	67.26
4.002	59.76	0	67.43

4.371	60.87	0	68
4.723	62.09	0	69.35
4.988	63.34	0	70.33
5.137	64.29	0	71.17
5.52	65.5	0	71.87
5.465	66.46	0	72.38
5.871	67.21	0	72.94
6.07	68.22	0	74.24
6.5	69.36	0	76.31
6.189	70.69	0	77.71
6.158	71.97	0	76.16
7.178	72.65	0	79.35
7.312	73.76	0	82.73
7.627	74.71	0	84.47
7.154	75.63	0	86.27
5.258	76.43	0	88.28
0	77.32	0	83.94
0	78.35	0	47.91
0	79.16	0	43.69
1.475	80.02	0	56.09
4.389	80.92	0	67.7
5.08	81.73	0	70.98
5.242	82.52	0	72.26
5.312	83.37	0.2	72.64
5.328	84.53	0.4	73.23
5.238	85.28	0.59	73.96
5.727	85.87	0.79	74.6
5.307	86.82	0.99	75.59
5.184	87.71	1.17	75.86
5.627	88.51	0	76.43
5.396	89.21	0	77.52
5.617	89.97	0	79.25
5.861	90.97	0	79.55
6.141	91.82	0	80.78
6.77	92.48	0	83.01
-6.408	93.17	0	56.07
-4.232	94.18	0	32.15
-2.117	94.49	0	31.64
-1.258	94.41	0	31.3
-1.043	93.44	0	31.04
-0.816	92.64	0	30.84
-0.645	91.48	0	34.95
-0.615	90.73	0	35.95
-0.547	90.01	0	38.11
-0.467	89.18	0	39.19
-0.426	88.6	0	40.67
-0.381	87.38	0	41.83

-0.346	86.76	0	42.29
-0.32	85.76	0	42.94
-0.291	84.57	0	43.32