Jim WOLF TECHnology
PERFORMANCE TECHNOLOGY FOR NISSAN / INFINITI INC.

NISSAN CONSULT DATA COLLECTION FORMAT

When testing a Nissan/Infiniti with a Nissan Consult scan tool, set up the Consult using the following parameters and guidelines.

PARAMETERS TO TEST

1. O2 Sensor voltage (left and right if applicable)
2. Ignition timing
3. Throttle Position Switch (TPS) voltage
4. Throttle Position Switch
5. Mass Air Flow Sensor (MAF) voltage
6. RPM
7. H2O Temperature
8. Injector pulse width (left and right if applicable)
9. Alpha (left and right if applicable)

SETTINGS FOR CONSULT AS FOLLOWS

1. Use high speed mode
2. Set to manual trigger
3. Trigger the Consult to record prior to when problem is exhibited, continue to record until car returns to good operation if possible or memory runs out.
4. Print out in 3 item mode (see example from consult ver. 1). Continue to print all parameters in this form until all of the data is printed. Align data tapes by time and tape them side by side to be viewed.
5. If necessary to fax to JWT, be sure to include all of car's upgrades, detail known problems and include name/phone/fax numbers of person(s) to contact.

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212 MILLAR AVE
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(619) 442-0680 MON-FRI 8AM-5PM PST
(619) 579-8160 24 HOUR FAX

Example of "3 ITEM MODE"

SYST:ENGINE
DATE:06,04 1900
P/# :23710-47P10

46:25	CMPS •RPM (POS) (rpm)	MASS AIR/F SEN (V)	02 SEN (V)
05"59	6212	4.59	0.95
05"61	6262	4.59	0.95
05"63	6312	4.59	0.95
05"65	6287	4.58	0.95
05"67	6300	4.58	0.95
05"69	6350	4.58	0.95
05"71	6350	4.59	0.95
05"73	6312	4.59	0.95
05"75	6300	4.60	0.95
05"77	6337	4.60	0.95
05"79	6375	4.60	0.95
05"81	6362	4.60	0.95
05"83	6350	4.60	0.95
05"85	6400	4.61	0.95
05"87	6450	4.61	0.95
05"89	6425	4.61	0.95
05"92	6462	4.62	0.95
05"94	6500	4.61	0.95
05"96	6475	4.62	0.95
05"98	6462	4.62	0.95
06"00	6500	4.62	0.95
06"02	6462	4.63	0.95
06"04	6450	4.62	0.95
06"06	6537	4.62	0.95
06"08	6562	4.62	0.95
06"10	6575	4.62	0.95
06"12	6625	4.62	0.95
06"14	6612	4.63	0.95
06"16	6612	4.63	0.95
06"18	6625	4.63	0.95
06"20	6575	4.63	0.95
06"22	6662	4.63	0.95
06"24	6612	4.62	0.95
06"26	6637	4.62	0.95
06"28	6675	4.62	0.95
06"30	6637	4.63	0.95
06"33	6675	4.63	0.95
06"35	6662	4.63	0.95
06"37	6700	4.63	0.95
06"39	6725	4.62	0.95

EXAMPLE OF A "NISSAN CONSULT 2" TEST FORMAT RECOMMENDED FOR FULL LOAD WOT TESTING. OTHER INPUTS MAY BE LOGGED BASED ON ISSUES BEING TESTED. THIS EXAMPLE IS A 350Z TURBOCHARGED 3RD GEAR ROLLING START.

SYSTEM ENGINE
DATE 03/24/2006, 10:06:48
P/# 23710 - CE400

Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
00"00	2588	3.16	11.4	98	1.50	7.7	23	60.34
00"09	2588	3.22	12.9	92	1.62	8.3	21	64.52
00"16	2575	3.19	13.4	92	1.66	8.7	17	63.34
00"16	2588	3.23	14.3	91	1.74	9.1	22	65.41
00"23	2613	3.25	14.9	91	1.88	9.5	21	66.35
00"27	2625	3.32	15.5	90	2.02	9.9	22	70.85
00"27	2650	3.38	16.2	90	2.22	10.4	21	74.07
00"38	2650	3.41	16.9	92	2.47	10.9	21	76.45
00"38	2663	3.43	17.1	93	2.86	11.2	21	78.74
00"42	2688	3.47	17.7	93	3.23	11.7	21	81.07

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Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
01"03	2913	3.78	21.8	90	4.13	15.0	26	105.36
01"04	2925	3.78	22.0	90	4.13	15.2	26	107.14
01"09	2950	3.84	22.4	90	4.13	15.4	26	109.27
01"09	2963	3.86	22.7	90	4.13	15.9	26	111.64
01"10	3000	3.87	23.0	90	4.12	16.1	26	113.84
01"10	3025	3.94	23.6	90	4.12	16.5	26	118.87
01"20	3050	3.96	23.9	90	4.12	16.7	26	120.42
01"22	3075	3.97	24.2	90	4.12	17.0	26	122.60
01"23	3113	4.01	24.7	90	4.11	17.3	26	126.96
01"34	3138	4.03	25.0	90	4.12	17.4	26	129.18

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Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
01"83	3438	4.15	25.0	100	4.12	19.4	25	140.63
01"90	3463	4.15	25.0	100	4.12	19.3	25	140.91
01"90	3513	4.18	24.9	100	4.13	19.1	25	140.85
01"97	3575	4.18	24.8	100	4.12	19.1	25	144.55
02"01	3588	4.19	24.8	100	4.12	19.1	25	145.16
02"02	3588	4.22	24.9	100	4.11	19.0	25	147.33
02"13	3600	4.21	24.9	100	4.12	19.0	25	146.65
02"16	3638	4.22	24.9	100	4.13	19.1	25	147.46
02"17	3675	4.24	24.9	100	4.13	19.0	25	148.96
02"23	3725	4.25	25.0	100	4.11	19.2	25	152.64

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Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
02"71	3963	4.39	25.7	100	4.11	19.5	25	166.64
02"71	4013	4.39	25.6	100	4.11	19.6	25	167.40
02"80	4063	4.43	25.8	100	4.12	19.7	25	170.57
02"86	4088	4.44	25.8	100	4.12	19.6	25	171.77
02"87	4088	4.45	26.0	100	4.13	19.7	25	174.58
02"93	4113	4.46	25.9	100	4.12	19.7	25	174.43
02"96	4163	4.46	25.9	100	4.12	20.0	26	175.53
03"02	4200	4.50	26.0	100	4.11	19.9	25	177.21
03"12	4213	4.47	26.0	100	4.12	20.1	25	177.67
03"15	4213	4.50	26.2	100	4.12	19.9	25	180.54

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Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
03"56	4538	4.66	27.4	100	4.12	21.2	23	198.55
03"62	4550	4.65	27.5	100	4.11	21.4	23	201.04
03"72	4575	4.67	27.7	100	4.12	21.5	23	203.05
03"81	4613	4.67	27.5	100	4.12	21.3	23	201.29
03"89	4638	4.69	27.6	100	4.12	21.4	23	203.89
03"97	4675	4.71	27.7	100	4.12	21.3	23	206.85
03"99	4700	4.72	27.7	100	4.12	21.5	23	208.25
03"99	4725	4.71	27.7	100	4.12	21.6	23	209.27
04"05	4725	4.74	27.7	100	4.11	21.4	23	209.60
04"14	4738	4.71	27.5	100	4.12	21.4	23	207.14

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Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
04"70	5025	4.78	27.1	100	4.13	21.0	24	217.40
04"71	5038	4.79	27.1	100	4.13	21.1	24	218.58
04"71	5063	4.79	27.1	100	4.12	21.1	24	219.27
04"72	5113	4.82	27.2	100	4.11	21.1	24	221.91
04"72	5113	4.80	27.1	100	4.12	21.0	23	220.79
04"77	5138	4.82	27.1	100	4.11	21.1	23	222.19
04"87	5150	4.84	27.2	100	4.13	21.1	23	224.61
04"94	5188	4.82	27.1	100	4.11	21.0	23	224.89
04"98	5225	4.84	27.1	100	4.11	21.0	22	225.24
04"99	5275	4.84	27.1	100	4.12	21.0	23	225.67

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Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
05"36	5488	4.88	26.8	100	4.12	21.2	23	230.85
05"41	5500	4.90	26.8	100	4.12	21.1	23	232.44
05"42	5550	4.89	26.6	100	4.12	21.0	23	232.09
05"42	5563	4.91	26.6	100	4.12	21.2	23	232.94
05"48	5575	4.90	26.6	100	4.12	21.1	23	234.99
05"56	5588	4.92	26.7	100	4.11	21.1	23	237.03
05"57	5588	4.91	26.6	100	4.12	21.2	22	237.19
05"67	5625	4.90	26.5	100	4.12	21.2	23	238.30
05"68	5650	4.92	26.4	100	4.11	21.2	23	238.67
05"76	5650	4.93	26.4	100	4.12	21.1	23	236.34

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Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
06"26	5888	4.95	25.8	100	4.12	21.0	24	241.27
06"35	5925	4.95	25.7	100	4.12	21.1	24	241.15
06"43	5913	4.95	25.6	100	4.11	21.0	24	242.13
06"47	5913	4.95	25.6	100	4.12	21.0	24	241.67
06"47	5938	4.94	25.5	100	4.12	21.0	24	240.57
06"48	5963	4.95	25.5	100	4.11	20.9	24	241.72
06"48	5975	4.95	25.5	100	4.12	20.9	24	242.59
06"50	5988	4.96	25.4	100	4.12	20.9	24	242.76
06"58	6025	4.95	25.3	100	4.11	21.0	25	241.52
06"58	6038	4.96	25.3	100	4.12	20.9	25	245.14

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Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
07"03	6238	4.98	24.6	100	4.12	20.3	27	244.83
07"04	6250	4.96	24.5	100	4.11	20.2	27	244.84
07"14	6263	4.96	24.4	100	4.12	20.2	27	243.53
07"14	6288	4.97	24.4	100	4.11	20.1	27	244.05
07"21	6313	4.95	24.2	100	4.13	20.1	27	244.28
07"24	6325	4.94	24.1	100	4.13	19.9	27	240.64
07"27	6350	4.95	24.0	100	4.12	19.9	27	243.46
07"34	6363	4.96	24.0	100	4.12	19.8	27	241.91
07"41	6375	4.96	23.9	100	4.11	19.7	27	242.77
07"47	6375	4.96	23.8	100	4.13	19.8	27	242.54

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Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
07"96	6588	4.96	23.2	100	4.12	0.5	29	242.24
07"97	6575	4.97	23.2	100	4.12	0.5	29	243.50
08"08	6275	4.86	22.8	100	4.13	19.6	28	234.24
08"16	6338	4.73	21.9	100	4.11	18.4	26	206.87
08"22	6750	4.82	21.6	100	4.12	0.5	29	219.53
08"22	6713	4.86	21.3	100	4.13	0.5	30	228.58
08"23	6288	4.65	20.4	100	4.12	17.8	27	205.26
08"23	6413	4.70	20.3	100	4.12	17.1	28	205.59
08"27	6750	4.86	20.7	100	4.11	0.5	30	227.52
08"32	6350	4.70	20.4	100	2.57	17.6	27	211.90

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Time	ENG SPEED [rpm]	MASS AIR/F SE-B1 [V]	BASE FUEL SCHDL [msec]	A/F ALPHA -B1 [%]	THRTL SEN 1 [V]	INJ PULSE -B1 [msec]	IGN TIM ING [BTDC]	MASS AIR FLOW [gm/s]
08"37	6250	2.32	8.4	100	0.85	7.4	30	59.81
08"42	6300	2.11	3.2	100	0.81	2.6	36	16.04
08"52	6500	1.64	1.1	100	0.79	1.4	36	10.78
08"62	6475	2.24	1.8	100	0.78	1.5	36	15.73
08"63	6400	1.73	1.1	100	0.79	1.4	36	16.87
08"64	6325	1.38	0.5	100	0.79	1.4	35	6.84
08"70	6325	0.96	0.2	100	0.79	1.4	34	2.51
08"79	6363	1.41	0.1	100	0.79	1.4	50	4.91
08"87	6363	1.75	0.4	100	0.80	1.4	50	8.99
08"95	6313	2.13	1.0	100	0.79	1.4	30	22.58