13B / 20B Engine Management

By Link ElectroSystems Ltd.

Miscellaneous								Switch's		TPS		Trailing Splits			
CLMP	MAST	R.LIM	M.LIM	A.LIM	MODE	CYL	VOLTS	RPM	TEMP	LOW	HIGH	0–2	2–4	4–6	6–8
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Transient						Lambda					
COLD			AIRJT	SECM	XOVER						
16	17	18	19	20	21	22	23	24	25	26	27

0	2	4	6	0	40	80	120	160	200
RPM x 1,000				MAP (kPa)					

Zone Fuel

Bar	0	1,000	2,000	3,000	4,000	5,000	6,000	7,000							
0.4	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175
0.8	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275
1.2	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375
1.6	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475
2.0	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575
	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675

Zone Ignition

Bar	0	1,000	2,000	3,000	4,000	5,000	6,000	7,000							
0.4	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175
0.8	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275
1.2	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375
1.6	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475
2.0	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575
	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675

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Miscellaneous

CLMP	MAST	R.LIM	M.LIM	A.LIM	MODE	CYL	VOLTS
0	1	2	3	4	5	6	7

Switch's

RPM	TEMP
8	9

TPS

LOW	HIGH
10	11

Trailing Splits

0–2	2–4	4–6	6–8
12	13	14	15

Waste Gate

COLD	SENS	BASE	RPM	MAST2	
16	17	18	19	20	21

Transient

22	23	24	25

0 2 4 6

RPM x 1,000

Lambda

26	27	28	29	30	31

0 40 80 120 160 200

MAP (kPa)

Zone Fuel

0	1,000	2,000	3,000	4,000	5,000	6,000	7,000								
100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175
200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275
300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375
400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475
500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575
600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675

Zone Ignition

0	1,000	2,000	3,000	4,000	5,000	6,000	7,000								
100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175
200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275
300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375
400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475
500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575
600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675

Boost Targets

0	1,000	2,000	3,000	4,000	5,000	6,000	7,000								
700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775

Engine Management
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Miscellaneous

CLMP	MAST	R.LIM	M.LIM	A.LIM	MODE	CYL	VOLTS
0	1	2	3	4	5	6	7

Switch's

IDLE	TEMP
8	9

TPS

LOW	HIGH
10	11

TRAILING SPLITS

12	13	14	15
	2	4	6 (x1000)

Cold Start

16	17	18	19	20	21
0°C	10°C	20°C	30°C	40°C	

Transient

22	23	24	25
0	2.8	5.6	8.4

RPM x 1,000

Lambda

26	27	28	29	30	31
0	40	80	120	160	200

MAP (kPa)

Zone Fuel

Bar	0	1,400	2,800	4,200	5,600	7,000	8,400	9,800							
0.4	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175
0.8	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275
1.2	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375
1.6	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475
2.0	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575
	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675

Zone Ignition

Bar	0	1,400	2,800	4,200	5,600	7,000	8,400	9,800							
0.4	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175
0.8	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275
1.2	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375
1.6	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475
2.0	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575
	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675

Vacuum / Boost Conversion Guide

0.4 Bar	=	18"Hg Vacuum	=	"Slightly above typical Idle (about 0.3 Bar)"
0.8 Bar	=	6" Hg Vacuum	=	"Medium to high power for non - turbo engine"
1.0 Bar	=	1 Atmosphere	=	"WOT non turbo engine"
1.2 Bar	=	3 Psi Boost	=	"Low boost"
1.6 Bar	=	9 Psi Boost	=	"Medium boost"
2.0 Bar	=	15 Psi Boost	=	"High boost"