Screen 1 (top left) — TCIP4 (v96)

C:\Users\Utilisateur\Documents\Personnel Pierre\Motos\Ignitech\Sachs R 800\Clouseau\Stage 1\V96\IAP\Sachs VS800GL TCIP4_V96 V04 CS1 i...

File Com Ignition Tools Language Help

No connection with PC...

Miscellaneous | Bike | Advance Map | Power out | Servo | Test

- Limiter [rpm]: 9 000
- Start limiter [rpm]: 3000
- Start limiter delay [ms]: 0
- Quickshift time [ms]: 95
- Quickshift delay [ms]: 500
- Retard [°]: 1
- Inputs for neutral side and ground

Dwell: Short / Long / Manual / Auto
- Dwell time [us]: 4 300
- Dwell dynamic addition [%]: 12
- Max. dwell time [us]: 12 000
- Min. duration of discharge [us]: 2 000
- Max rpm for dwell by lobe [rpm]: 500

Sensor: No / TP / IAP

IAP (intake pressure) sensor

	Pressure	Voltage
	15 kPa	0.25 V
	120 kPa	4.75 V

Multifunction input 1 (pin 8): Off / Kill switch / Blocking / Quickshift / Retard / 2nd advance chart / Inverse polarity / Input =

Multifunction input 2 (pin 19): Off / Kill switch / Blocking / Retard / 2nd advance chart / Inverse polarity / Input =

RPM = —
IAP = 101 kPa
Pick-up (CKPS) 1 = —
U = — [V]
Advance 1 = — [°]
Advance 2 = — [°]

Kill switch = —   Limiter = —
Motor off = —   Start limiter = —
Quickshift = —   2nd advance chart = —
Retard = —   Dwell = — [ms]

EXE TCIP4 RSKEY=96.00 COMPILE=2019_04_16   HEX not connected

Annotations (top left area)
Retard: -1°. A security to reduce the programmed values with an optional connector from "pin19" to "ground".
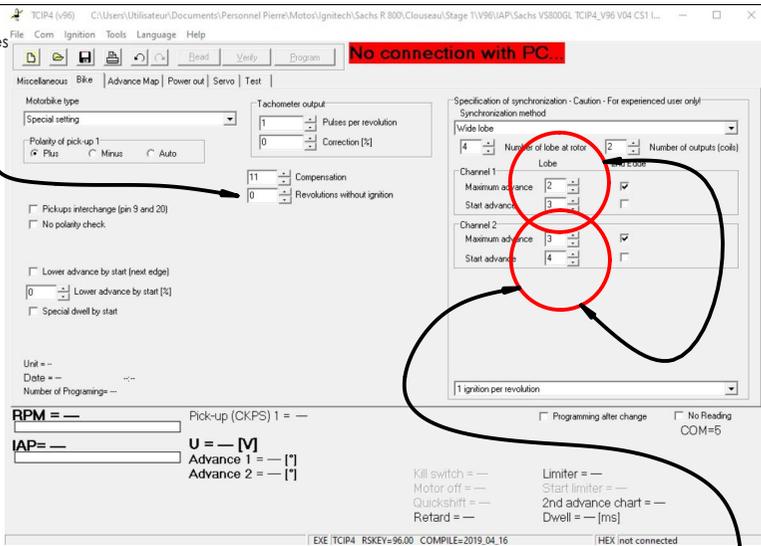
"1" revolution without ignition is not necessary. With "0", the engine starts more quickly

"second chart" by switching "pin8" to "ground" activates the "Advance 2" map for SP98E5

When the engine is stopped you must read in monitoring the ambient air pressure found for your place in a weather report site (from 99 to 104 kPa). If you find a difference (98 or 103 kPa read for 101 kPa real) you must adjust the default value 120 kPa for 4.75v. Caution: the value is Ok after "Programing".

Screen 2 (top right) — TCIP4 (v96)

C:\Users\Utilisateur\Documents\Personnel Pierre\Motos\Ignitech\Sachs R 800\Clouseau\Stage 1\V96\IAP\Sachs800GL TCIP4_V96 V04 CS1 i...

File Com Ignition Tools Language Help

No connection with PC...

Miscellaneous | Bike | Advance Map | Power out | Servo | Test

Motorbike type: Special setting

Tachometer output
- Pulses per revolution: 1
- Correction [%]: 0

Polarity of pick-up 1: Plus / Minus / Auto

- Compensation: 11
- Revolutions without ignition: 0

- Pickups interchange (pin 9 and 20)
- No polarity check

- Lower advance by start (next edge)
- Lower advance by start [%]: 0
- Special dwell by start

Unit = —
Date = —.—
Number of Programing = —

Specification of synchronization - Caution - For experienced user only!
Synchronization method: Wide lobe
- Number of lobe at rotor: 4
- Number of outputs (coils): 2
- Lobe
- Channel 1: Maximum advance: 2 / Start advance: 3
- Channel 2: Maximum advance: 3 / Start advance: 4
- 1 ignition per revolution

RPM = —
IAP = —
Pick-up (CKPS) 1 = —
U = — [V]
Advance 1 = — [°]
Advance 2 = — [°]

Kill switch = —   Limiter = —
Motor off = —   Start limiter = —
Quickshift = —   2nd advance chart = —
Retard = —   Dwell = — [ms]

EXE TCIP4 RSKEY=96.00 COMPILE=2019_04_16   HEX not connected

Annotations (top right area)
The default parameters by Ignitech for VS 800 are wrong. Special settings with "second edge" for max advance reduce the "dwell by lobe" duration.
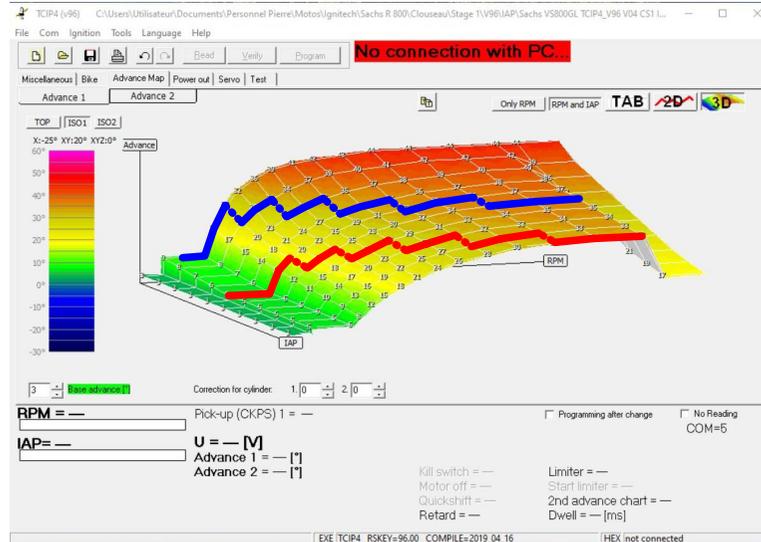The real "base advance" for electric starter is 3°. Never change it.
Sometimes, the wires of channels are inverted. Explosion in the exhausts! So you must reverse the numbers of lobes in the software.

Center notes
Ignitech TCIP4 V96 and V88 are the same unit. You can upgrade a V88 with an uploader V96

More informations: http://www.ignitech.cz/en/

Upload - firmware exchange

- DCCDIP
- DCCDIP1 race
- DCCDIP2
- DCCDIP2 race
- DCCDIP4
- Igniiet 12
- Igniiet 2007
- Igniiet 2008
- Igniiet Ducati
- Racing 3
- TCIP4
  - v80
  - v88
  - v96

190627b_tcip4_v96_uploader.exe

Screen 3 (bottom left) — TCIP4 (v96) — Advance Map Advance 1

File Com Ignition Tools Language Help

No connection with PC...

Miscellaneous | Bike | Advance Map | Power out | Servo | Test

Advance 1 | Advance 2   Only RPM | RPM and IAP | TAB | 2D | 3D

RPM / IAP	500	1 500	1 700	2 000	2 300	2 700	3 100	3 600	4 100	4 800	5 500	7 400	8 500	9 000
44 kPa	9	9	19	27	32	36	39	41	42	43	44	44	44	44
50 kPa	8	8	17	23	28	31	34	37	39	40	41	42	42	39
56 kPa	7	7	15	20	23	27	30	33	38	39	40	40	40	36
62 kPa	6	6	14	18	21	24	27	30	32	34	36	37	38	33
68 kPa	5	5	13	17	19	23	26	29	31	33	35	36	37	30
74 kPa	5	5	12	16	19	22	25	28	30	32	34	35	36	36	27
80 kPa	5	5	11	15	18	21	24	27	30	33	34	35	35	24
86 kPa	5	5	10	14	17	20	23	26	28	30	32	34	34	21
92 kPa	5	5	9	13	16	19	22	25	27	29	31	32	33	19
98 kPa	5	5	8	12	15	18	21	24	26	28	30	31	32	32	17

Base advance [°]: 3
Correction for cylinder: 1: 0 2: 0

Number of columns (15)
Acceleration ↑
Motor brake ↓

RPM = —
IAP = —
Pick-up (CKPS) 1 = —
U = — [V]
Advance 1 = — [°]
Advance 2 = — [°]

Kill switch = —   Limiter = —
Motor off = —   Start limiter = —
Quickshift = —   2nd advance chart = —
Retard = —   Dwell = — [ms]

EXE TCIP4 RSKEY=96.00 COMPILE=2019_04_16   HEX not connected

Screen 4 (bottom right) — TCIP4 (v96) — Advance Map 3D

File Com Ignition Tools Language Help

No connection with PC...

Miscellaneous | Bike | Advance Map | Power out | Servo | Test

Advance 1 | Advance 2   Only RPM | RPM and IAP | TAB | 2D | 3D

TOP | ISO1 | ISO2
X:-25° XY:20° XYZ:0°   Advance

Base advance [°]: 3
Correction for cylinder: 1: 0 2: 0

RPM = —
IAP = —
Pick-up (CKPS) 1 = —
U = — [V]
Advance 1 = — [°]
Advance 2 = — [°]

Kill switch = —   Limiter = —
Motor off = —   Start limiter = —
Quickshift = —   2nd advance chart = —
Retard = —   Dwell = — [ms]

EXE TCIP4 RSKEY=96.00 COMPILE=2019_04_16   HEX not connected

Mountain pass 2500m over the sea. ▬▬▬ (blue)
Level of the sea. ▬▬▬ (red)

Bottom notes
USB-Serial converter (optional by Ignitech)
Caution! A bad converter from China may cause troubles!

Right margin (vertical)
Sachs Roadster 800 / Suzuki VS 800GL Intruder / Suzuki VX 800 USA CA

IgniTech TCI-P4 V96 with IAP sensor 120kPa. Keying with CS1.

SACHS BIKES — since 1886 — Welcome to the Machine.