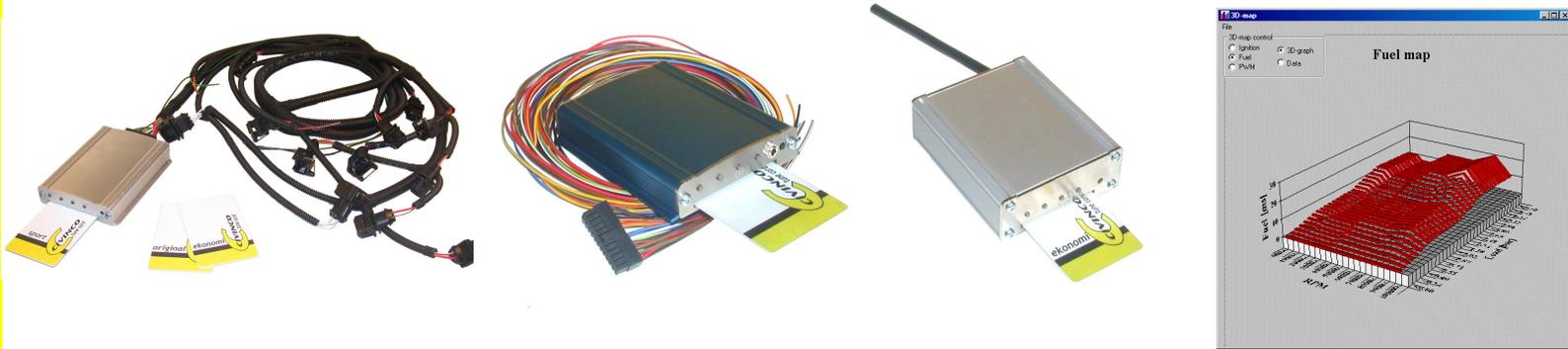


Piggy back / In series

- Kopplas mellan motor och originalstyrning
- Kortar/förlänger originalbränslepulser
- Backar/avancerar originaltändning
- Tar över laddtrycksstyrning
- Begränsar hur mycket laddtryck originalboxen ser



BC250G3, BC500G3 & BC1000G3



- Två storlekar, 5 cylindrar eller 10 cylindrar
- 10 bränsle, 3D tabell med 18*19 celler
- 4 tändning, 3D tabell
- 8 analoga in, 4 analoga ut
- 2 PWM för laddtrycksstyrning
- E85 kallstartsfunktioner
- PC-mjukvara för tuning och loggning
- Minneskort för inställningar



Piggyback installation

- Kopplas mellan original-ECU och motor
- Installation
 - vid ECU-kontakt via färdig plug and play kontakt
 - via lödning in på original kabelstam
 - vid motor via färdig kabelmatta med motor- och sensorkontakter



STANDARDINSTALLATIONER MED BC250G2 och BC750G2



Original 150 hk - BC250 197 hk
- Audi A3 1,8T 2001-2003
- Skoda Octavia 1,8T 2001-2003



Original 150 hk - BC250 197 hk
- Audi A6 1,8T 2001-2003
- VW Passat 1,8T 2001-2003



Original 225 hk - BC250 255 hk
- Audi TT 1,8T 2001-2003



Original 150 hk - BC250 197 hk
- VW Golf 1,8T 2001-2003



Original 193-250 hk - BC250 240-280 hk
- Volvo V70 1997 ->



Original 163-200 hk - BC250 197-240 hk
- Volvo S/V40 2.0T
- Volvo S/V40 T4, 2001 ->



Original 55-75 hk - BC250 62-80 hk
- Smart Pulse/Passion
- Smart Pulse/passion, Fourtwo, Roadster
Installationsexempel >>
Från installation till tuning av en Smart Turbo



Dodge Viper, Original 450-500hk
Gen2 +20hk på mellanregistret
Gen3 +25hk på mellanregistret
Med kompressorkit +150-250hk, 0.35-0.7 bar laddtryck.
För mer info se www.roeracing.com



Volvo 850



Några referenskunder



ANDRA REFERENSProjekt

Audi S2, Större turbo

Audi S4 ,Original

Audi RS4, Större turbos

Arctic cat (skoter), Original

BMW 3-serie E36

BMW 3-serie E46

Chrysler 300C turbokonverterad

Dodge Viper, Kompressor och lustgas

Dodge Viper, Turbokonverterad

Dodge SRT 10 Truck, Kompressor

Honda Civic CRX, 1.6, Kompressor,
racebränsle & lustgas

Honda Civic CRX, 1.6, turbokonverterad

Mazda Miata, Turbokonverterad

Mazda Miata kompressorkonverterad

Mitsubishi 3000 GT, Original

Nissan 300 ZX, Original

Porsche 944 163hk MAF-sim

Porsche 944 turbo, större turbo

Skoda Octavia RS, Större turbo, MAF-
sim

Subaru Ipreza, Större turbo

Suzuki Hayabusa (MC),

Turbokonverterad

Toyota Supra, Singelturbo

Toyota Celica, Större turbo

Toyota MR2, Original

Volvo S40, Turbokonverterad

Volvo 740 turbo, Original

Volvo 360, Turbokonverterad

Volvo 850, Större turbo, MAF-sim

VW Golf V6, Turbokonverterad, MAF-
sim



BCLab, PC-program för mappning & loggning

- Sparar inställningar i box, i fil eller på tunecard
- Loggar 75 motorsignaler

The screenshot displays the CIVINCO SA500/SA1000 Interface Software interface, which is used for engine mapping and logging. The main window is titled "SA1000-Demo_setting_001.cbc" and contains several key sections:

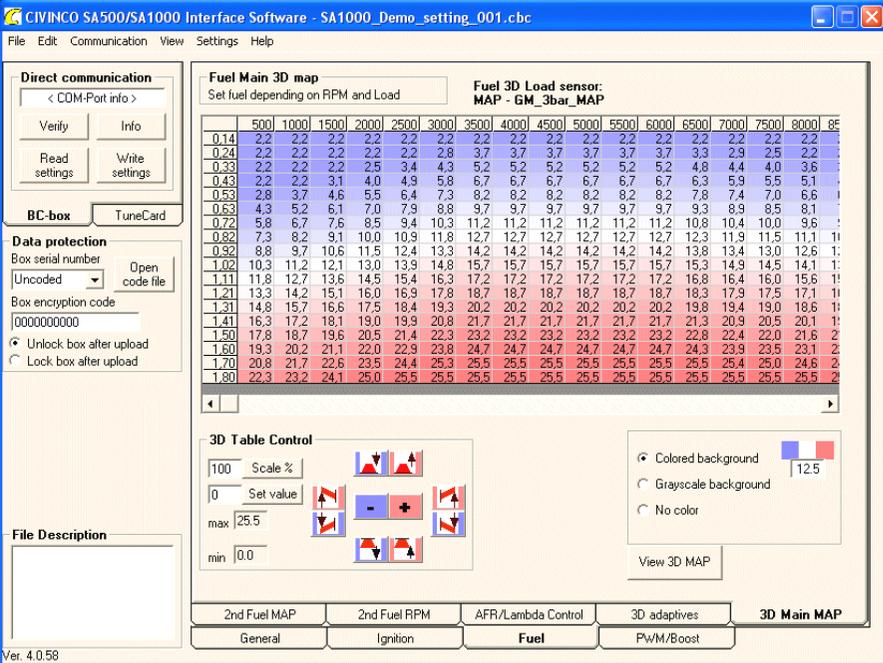
- Direct communication:** Includes buttons for "Verify", "Info", "Read settings", and "Write settings".
- BC-box / TuneCard:** Options for saving settings to the engine's memory or a tuning card.
- Data protection:** Settings for "Box serial number", "Box encryption code", and options to "Unlock box after upload" or "Lock box after upload".
- Fuel Main 3D map:** A large table showing fuel settings based on RPM and Load. The table has columns for RPM (500 to 8500) and rows for Load (0.14 to 1.80).
- 3D Table Control:** A control panel for adjusting the 3D map, including a "Scale %" slider, "Set value" input, and "max/min" values.
- Log window controls:** A bottom panel with navigation buttons like "Scroll left", "Scroll right", "Zoom In", "Zoom Out", and "Zoom out max".
- Parameter List:** A scrollable list of engine parameters such as "WaterTempFuel-add [%]", "AirTempFuel-add [%]", "VoltageFuel-add [ms]", "FuelAccEnrich [AD]", "PwM1 Out [%]", "PwM2 Out [%]", "AFR_M [V]", "ThrotleL_M [V]", "MAP_M [bar]", "WaterTemp_M [C]", "Bränsletyck [bar]", "AirTemp_M [C]", "Fuel_S [ms]", "FuelHim_S [%]", "PwM3 Out [%]", "PwM4 Out [%]", "AFR_S [V]", "ThrotleL_S [V]", "MAP_S [bar]", "WaterTemp_S [C]", "12V_S [V]", "AirTemp_S [C]", "POWER [hp]", "TORQUE [Nm]", "SPEED [km/h]", and "Select/deselect all".

In the background, a smaller window shows a file browser with a list of log files and a graph displaying real-time engine data. The graph shows RPM (red line), IGN (green line), AFR_M (blue line), and MAP_M (yellow line) over time. The current time is 297.48s, and the RPM is 5139.



BC500 & BC1000 G3, bränsle

- 3D bränslemapp med upp till 18*19 celler
- Bränslekompensering
 - Lufttemperatur
 - Accelerationsriktning



The screenshot displays the CIVINCO SA500/SA1000 Interface Software. The main window shows a 3D fuel map table with the following data:

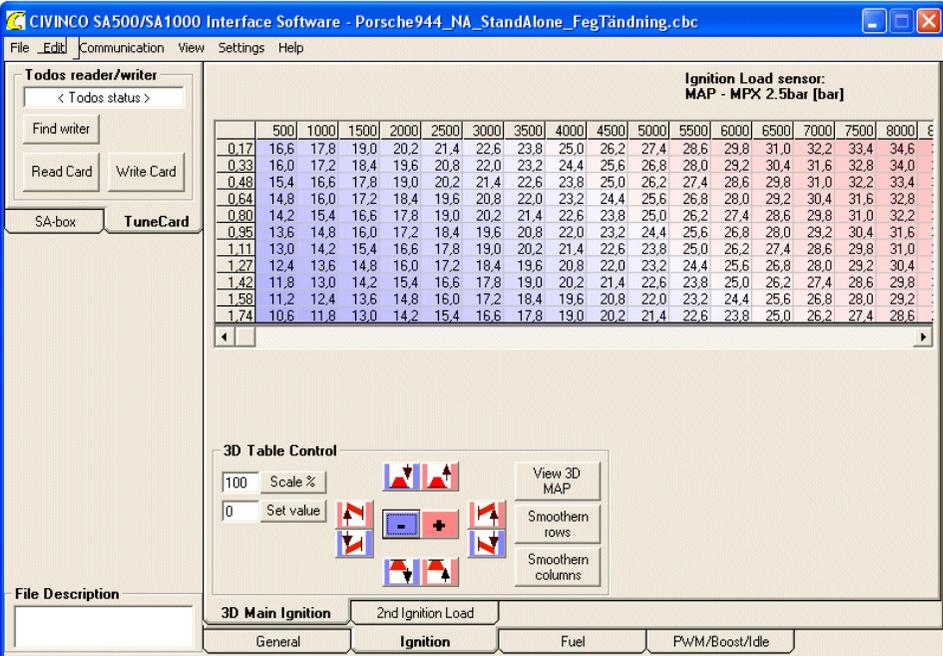
	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000
0.14	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
0.24	2.2	2.2	2.2	2.2	2.2	2.8	3.7	3.7	3.7	3.7	3.7	3.7	3.3	2.9	2.5	2.2	2.2	2.2
0.33	2.2	2.2	2.2	2.5	3.4	4.3	5.2	5.2	5.2	5.2	5.2	4.8	4.4	4.0	3.6	3.6	3.6	3.6
0.43	2.2	2.2	3.1	4.0	4.9	5.8	6.7	6.7	6.7	6.7	6.7	6.3	5.9	5.5	5.1	5.1	5.1	5.1
0.53	2.8	3.7	4.6	5.5	6.4	7.3	8.2	8.2	8.2	8.2	8.2	8.2	7.8	7.4	7.0	6.6	6.6	6.6
0.63	4.3	5.2	6.1	7.0	7.9	8.8	9.7	9.7	9.7	9.7	9.7	9.7	9.3	8.9	8.5	8.1	8.1	8.1
0.72	5.8	6.7	7.6	8.5	9.4	10.3	11.2	11.2	11.2	11.2	11.2	11.2	10.8	10.4	10.0	9.6	9.6	9.6
0.82	7.3	8.2	9.1	10.0	10.9	11.8	12.7	12.7	12.7	12.7	12.7	12.7	12.3	11.9	11.5	11.1	11.1	11.1
0.92	8.8	9.7	10.6	11.5	12.4	13.3	14.2	14.2	14.2	14.2	14.2	14.2	13.8	13.4	13.0	12.6	12.6	12.6
1.02	10.3	11.2	12.1	13.0	13.9	14.8	15.7	15.7	15.7	15.7	15.7	15.7	15.3	14.9	14.5	14.1	14.1	14.1
1.11	11.8	12.7	13.6	14.5	15.4	16.3	17.2	17.2	17.2	17.2	17.2	17.2	16.8	16.4	16.0	15.6	15.6	15.6
1.21	13.3	14.2	15.1	16.0	16.9	17.8	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.3	17.9	17.5	17.1	17.1
1.31	14.8	15.7	16.6	17.5	18.4	19.3	20.2	20.2	20.2	20.2	20.2	20.2	19.8	19.4	19.0	18.6	18.6	18.6
1.41	16.3	17.2	18.1	19.0	19.9	20.8	21.7	21.7	21.7	21.7	21.7	21.7	21.3	20.9	20.5	20.1	20.1	20.1
1.50	17.8	18.7	19.6	20.5	21.4	22.3	23.2	23.2	23.2	23.2	23.2	23.2	22.8	22.4	22.0	21.6	21.6	21.6
1.60	19.3	20.2	21.1	22.0	22.9	23.8	24.7	24.7	24.7	24.7	24.7	24.7	24.3	23.9	23.5	23.1	23.1	23.1
1.70	20.8	21.7	22.6	23.5	24.4	25.3	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.4	25.0	24.6	24.6	24.6
1.80	22.3	23.2	24.1	25.0	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5

The interface also includes sections for Direct communication, Data protection, 3D Table Control, and File Description. The 3D Table Control section shows a scale of 100% and a set value of 12.5. The File Description section is currently empty.



BC500 & BC1000 G3, tändning

- 3D tändmapp på upp till 18*11 celler
- Justerar tändningen +/-25 grader
 - Sänker tändningen på alla bilar.
Antingen genom att backa vev- och kamaxelsignal eller tändsignal till spolen
 - Höjer tändningen i bilar med symetrisk signal
Ofta kopplad på signal mellan original-ECU och tändslutsteg



CIVINCO SA500/SA1000 Interface Software - Porsche944_NA_StandAlone_FegTändning.cbc

File Edit Communication View Settings Help

Todos reader/writer
< Todos status >

Find writer
Read Card Write Card

SA-box TuneCard

Ignition Load sensor:
MAP - MPX 2.5bar [bar]

	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	€
-0.17	16.6	17.8	19.0	20.2	21.4	22.6	23.8	25.0	26.2	27.4	28.6	29.8	31.0	32.2	33.4	34.6	
-0.33	16.0	17.2	18.4	19.6	20.8	22.0	23.2	24.4	25.6	26.8	28.0	29.2	30.4	31.6	32.8	34.0	
-0.49	15.4	16.6	17.8	19.0	20.2	21.4	22.6	23.8	25.0	26.2	27.4	28.6	29.8	31.0	32.2	33.4	
-0.64	14.8	16.0	17.2	18.4	19.6	20.8	22.0	23.2	24.4	25.6	26.8	28.0	29.2	30.4	31.6	32.8	
-0.80	14.2	15.4	16.6	17.8	19.0	20.2	21.4	22.6	23.8	25.0	26.2	27.4	28.6	29.8	31.0	32.2	
-0.95	13.6	14.8	16.0	17.2	18.4	19.6	20.8	22.0	23.2	24.4	25.6	26.8	28.0	29.2	30.4	31.6	
-1.11	13.0	14.2	15.4	16.6	17.8	19.0	20.2	21.4	22.6	23.8	25.0	26.2	27.4	28.6	29.8	31.0	
-1.27	12.4	13.6	14.8	16.0	17.2	18.4	19.6	20.8	22.0	23.2	24.4	25.6	26.8	28.0	29.2	30.4	
-1.42	11.8	13.0	14.2	15.4	16.6	17.8	19.0	20.2	21.4	22.6	23.8	25.0	26.2	27.4	28.6	29.8	
-1.58	11.2	12.4	13.6	14.8	16.0	17.2	18.4	19.6	20.8	22.0	23.2	24.4	25.6	26.8	28.0	29.2	
-1.74	10.6	11.8	13.0	14.2	15.4	16.6	17.8	19.0	20.2	21.4	22.6	23.8	25.0	26.2	27.4	28.6	

3D Table Control

100 Scale %
0 Set value

View 3D MAP
Smoother rows
Smoother columns

3D Main Ignition 2nd Ignition Load

General Ignition Fuel PWM/Boost/Idle



BC500 & BC1000 G3, funktioner

- Laddtrycksstyrning
 - Open eller closed loop (PID) via PWM
- Dubbla analoga in och utgångar som kan konfigureras till begränsa vad originalboxen ser.
- Analog utgång som kan "dra" i tex lambda- och trottelsignaler
- Säkerhetsspärrar
 - Varvtalsstopp,
 - Låter original gå i nödläge vid för högt laddtryck
- Använder originalsensorer
- USB kommunikation med PC
- Loggar upp till 75 st motor- och sensorsignaler till PC

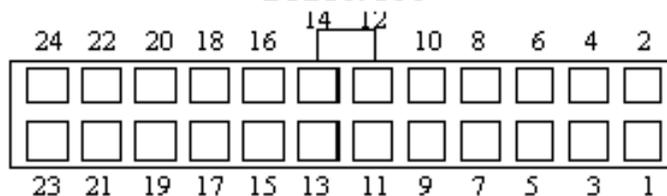


Elektrisk inkoppling, BC500G3

Stift	Färg	Namn
1	svart/vit	SIGNALJORD GND
2	grå	5 V OUT
3		
4	grön	ANALOG 4 IN
5	lila	PWM_UT (boost)
6	blå	ANALOG 3 IN
7	gul	ANALOG 2 UT
8	röd/grön	ANALOG 2 IN
9	gul/grön	ANALOG 1 UT
10	röd/gul	ANALOG 1 IN
11	svart/grön	IGB_UT/FI_E_UT/PWM_UT
12	röd/vit	IGB_IN/FI_E_IN/PWM_IN
13	blå/röd	IGNITION_A UT
14	blå/vit	IGNITION_A IN
15	grön/vit	FUEL_D_UT
16	vit	FUEL_D_IN
17	brun/svart	FUEL_C_UT
18	brun/röd	FUEL_C_IN
19	brun/blå	FUEL_B_UT
20	brun/grå	FUEL_B_IN
21	brun/gul	FUEL_A_UT
22	brun/grön	FUEL_A_IN
23	svart	JORD_GND
24	röd	12 V MATNING

- 5 bränsle, in-ut
- 2 tändning, in-ut
- 2 analoga in-ut
- 2 analoga in
- 1 digital ut
- 1 PWM ut
- +5V ut
- 12V matarspänning
- USB kommunikation

BC250/500



Produkter och priser

Piggy back exkl. kablage

BC250G3, upp till 5 cyl. färdigprogrammerad*, tune cards



6 495

BC500G3 , programmerbar, PC-mjukvara, tune cards



7 990

BC750G3 (VEC3), upp till 10 cyl. färdigprogrammerad**, tune cards



8 405

BC1000G3 (VEC3), programmerbar , PC-mjukvara, tune cards



9 900

Stand alone exkl. kablage

BC500SG3, StandAlone upp till 4 cylindrar, PC-mjukvara, tune cards



9 900

BC1000SG3, StandAlone upp till 8 cylindrar, PC-mjukvara, tune cards



12 900

