

First of all Thank you very much for purchasing this product. In order to use this product correctly safely, please be sure to read this instructions manual thoroughly. Advice This manual is for the i-Color series. Keep in mind that there are SBC and MMD overlaps. ${f SBC}$ i-Color This product's purpose is to control the boost of the turbocharger and improve the output of the engine. A state of the art digital controller for an accurate gain in boost pressure, which controls two highly efficient sequential solenoids, achieves a minimum over shoot on peak boost and a stable boost pressure. Features of the product Boost control & power meter function. An added function, the Result graph, which displays the results of power, torque, boost, and A/F overlapping to each other on one screen. It has a function as al logger according to the RPM to compare a maximum of three channels on the horizontal axis that are power, torque, boost and

The ultimate boost controller

The known full auto function evolves further in the SBC i-D series. A still more precise control is added to the auto boost setup. In addition to the new full auto function in which the self-learning method can be chosen in three steps, a boost according to the RPM and speed is possible to setup to match on all the stages.

Full color (65.000 colors)

The graphics that the full color display made it possible are; such as displaying from analog to digital meter, graph comparison display and a possibility to produce a variation of back ground images. If the optional TEMP sensor and PRESS sensor are connected, it is also possible to display water temperature or oil temperature and oil pressure.

CODE 19211 Press Sensor Set USD 130.00

CODE 19210 Temp Sensor Set USD 130.00

Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes Omitoring functions nual Not For Resale Purposes

- Digital display:
 - A total of 12 data (Boost, Tacho, Speed, Power, Temp (Oil/Water), Fuel Press, Oil Press, Data 1 \sim 3 (A separate harness is necessary) can be monitored and it can display simultaneously on screen a maximum of six data.
 - XA/F can be displayed at the AUX port or at the external voltage port Data 1∼3.
 - *The sensors are necessary to purchase separately.
- Analog display:
 - The Boost, Tacho, Speed, Power, Temp (Oil/Water), A/F, Fuel Press and Oil Press are reproduced as an analog meter image at the LCD. It can monitor a maximum of 4 data, including the digital displays at the screen, and the boost set up is at will. Moreover, the background can also be chosen from a white, black, carbon, and blue.
- Multi-angle display function

 The display of the LCD can be set as left, right and perpendicular (the LCD at the top) operation

angles. By selecting any one of these three angles, the switches also change automatically to the related angle.

- Convenient functions

It has a full load of convenient functions, such as a peak display, independent warning setup by source, maximum of 10 minutes of record/replay function (replay function can convert the unit displayed), back light adjustment, dimmer function, contrast adjustment and language selection.

Optional A/F display function

If the optional A/F amplifier unit is connected, the A/F ratio can be measured and monitored, which can compare with boost or other sources. Thus, the boost setting can be broadened.

Regarding the boost controller

- Sequential valve control:
 - Two-solenoid valves operate sequentially depending on the valve-open ratio. Mainly, the first valve will do most of the work at low valve-open ratio and at high valve-open ratio; the second valve will come to play.
- Automatic correction of boost pressure (Initial learning):
 - It will automatically correct to the desired boost pressure that has been configured. A C mark will change color from RED to WHITE when the correction cycle (DUTY value) reaches the desired value. While the C mark is lighted, the SCRAMBLE MODE or the SPEED MAP MODE will not take effect on the used channel. However, the boost control will take effect even if the C mark does not change to WHITE color. This time, to perform the initial learning smoother, the normal, mild and slow function has been added. The Automatic correction of boost pressure is not applicable on manual mode.

	n	line	Mar	nual	Not	Hor	Resa	le	Purp	oses
	n	line	Mar	nual	Not	For	Resa	le	Purp	oses
	n	Advice					rt setting from			oses
	n	in a numb	ers of atte	mpts. How	vever, if full	l boost is no	t reached while	e settin	g (Ex: half	throttle),
	n						mpt because it imiter [Warnin			
		desired bo		nual	Not	For	Resa	le		oses
	Ext						Resa			oses
	n	It is possi	ble to displ	ay, record,	and replay	by inputtir	ng an external o	voltage	of 0-16V up	
	n	arbitrary	setup the v	alue. Ther	efore, it car	n be used to	record the thro	ttle vol	tage, airflov	v voltage,
		separately	y.	101011	rence as a s		The external v	1 -		ss is sole
	n		uct name: uct numbe		NOI	Extended 1505	rnal voltage ing 3	out har	ness	voses
	n	Man Func	ufacturers etion:	suggested	price:		45.00 n display exte		oltage source	oses e of 0~
	n	line	Mar	nual	Not		by taking it to t			
	n	line	Mar	iual	Not	For	Resa	le	Purp	oses
	n	line	Mar	nual	Not	For	Resa	le	Purp	oses
	n	line	Mar	nual	Not	For	Resa	le	Purp	oses
	n	line	Mar	nual	Not	For	Resa	le	Purp	oses
Ó		line		nual	Not	For	Resa	le	Purp	oses
	ŋ	line	Mar	nual	Not	For	Resa	le	Purp	oses
	n	ine	Mar	rual	Not	For	Resa	le	Purp	oses
	n	line	Mar	nual	Not	For	Resa	le	Purp	oses
	n	line	Mar	nual	Not	For	Resa	le	Purp	oses
	n	line	Mar	nual	Not	For	Resa	le	Purp	oses
							Resa			
	WAI	RNING; All in ed in retrieval	nages and text l systems, or to	in this manu ransmitted in	al is the prope any form or m	rty of Blitz Per eans without p	formance Sales, Inc rior written permiss	e. No part sion of Bli	of this maybe itz Performance	reproduced, Sales, Inc.

Since it is actually calculated on the road, a more accurate reading can be achieved by measuring factors such as frictional resistance from the road surface, angle (slope) of the road, air resistance and so on. It is capable to measure a maximum of 1200 PS.

Features of the product

MMD i-Color

- Power meter function

It measures and displays the horsepower and torque of the vehicle. Of course, the peak hold and the warning function are also available. At the chassis dynamo measurement function, the chassis dynamo graph can be easily displayed. A selection of PS ($0\sim1200$ PS) or KW ($0\sim882$ KW) can be selected for power measurement. Moreover, a result function to display over lapping the power, torque and A/F curve in one screen has been added. It also has a function as data logger, which can display graphically up to three channels to compare the horizontal axis of power, torque and A/F ratio according to the RPM.

Advice

This product computes the horsepower on the actual workload that the tires are performing on the road based on the weight of the vehicle and speed. Therefore, the actual value (Net horsepower) might be different from the released value of the automaker and on each engine. Since it computes by actually driving on the road, it displays the actual horsepower by computing the engine's performance at the point in time minus the various resistances such as the rolling resistance, air resistance, drive train resistance, etc.

Full color (65,000 colors)

The full color LCD can display from digital, analog and graphical meter. The graphical meter can be use for comparison and many other ways to display the background. It can also display the water temperature, oil temperature, fuel pressure and (or) oil pressure by acquiring the optional Temperature sensor and (or) Pressure sensor.

Optional Sensors: CODE 19210 Temp Sensor Set USD 130.00 CODE 19211 Press Sensor Set USD 130.000

Monitoring functions

Digital display:

It can display simultaneously up to 6 data out of the 11 data which are the TACHO, SPEED, POWER, TEMP (oil/water), FUEL PRESS, OIL PRESS, AUX, DATA1~3 (Optional external voltage input harness needed)

The A/F ratio can be displayed through the AUX port or the DATA 1~3 external voltage input port.

OII	line	IVIal	nuai	Not	Hor	Resale	Purposes
On	line	Mai	nual	Not	For	Resale	Purposes
On	The senso	ors have to	be acquire	d separately	For	Resale	Purposes
Ar On	1	HO, SPEE	D, POWER	, TEMP (oil/	water), FU		RESS can be displayed isplayed
On	LCD scre	en and the	e source of	the data can	be display	ved many ways. Mo	reover, the color of the
						nd blue.	Aurposes
		ns are aut	- 0- 0	reconfigured			etion of the LCD as left,
Co	onvenient f		nual	Not	For	Resale	Purposes
On	Line	1/10	امينه			rce, max 10 minu nglish, Japanese, e	tes recording, replay,
		N /	اميية			isplay, monitor and ting of the A/F ratio	record the fuel ratio
On						Resale	
נטן ט						17G2die	r ui puses
	Those ow.	ning the B	Slitz SBC 1-1	D series can	easily upg	rade to the full colo	r display by attaching
On	the MMD	. The fun	ctions will				r display by attaching t of the boost will be
On On	the MMD	N 7/1	ctions will				
On On On	the MMD	o. The fun	ctions will s hkpa.	the same a	s the SBC	i-Color. *The unital Resale	
	the MMD automatic	o. The function cally set as	ctions will s hkpa.	the same a	s the SBC	i-Color, %The unit Resale Resale	t of the boost will be
On	automatic	e. The function and the	ctions will s hkpa.	the same a Not Not Not	s the SBC	Resale Resale Resale	t of the boost will be S Purposes Purposes
Ол Qn	automatic	eally set as	ctions will shkpa.	Not Not Not Not	For For	Resale Resale Resale Resale Resale	t of the boost will be S Purposes Purposes Purposes
On On	automatic ine line line	o. The funcally set as	ctions will shkpa.	Not Not Not Not Not	For For	Resale Resale Resale Resale Resale Resale	t of the boost will be S Purposes Purposes Purposes Purposes Purposes
On On On	automatic line line line line	Mai Mai Mai Mai	ctions will shkpa. Tual nual nual	Not Not Not Not Not Not	For For For	Resale Resale Resale Resale Resale Resale Resale	Purposes Purposes Purposes Purposes Purposes Purposes Purposes Purposes
On On On On	the MMD automatic line line line line line line	Mai Mai Mai Mai Mai Mai Mai Mai	ctions will shkpa. Nual nual nual nual	Not Not Not Not Not Not Not	For For For For	Resale Resale Resale Resale Resale Resale Resale	Purposes Purposes Purposes Purposes Purposes Purposes Purposes Purposes Purposes
On On On On	the MMD automatic line line line line line line line	Mai	ctions will shkpa. hual hual hual hual hual	Not Not Not Not Not Not Not Not Not	For For For For	Resale Resale Resale Resale Resale Resale Resale Resale	Purposes
On On On On On	automatic line line line line line line line line	Mai	ctions will shkpa. Tual hual hual hual hual hual hual	Not	For	Resale	Purposes

In order to use the product safely, please read the "SAFETY NOTICE" thoroughly.

Explanation of warning symbols

DANGER: Ignoring these indications may cause serious injuries or even death to the

individual and (or) to a third party.

CAUTION: Ignoring these indications may cause serious injuries or injuries to the

individual and (or) to a third party.

ATTENTION: Ignoring these indications may cause injuries or minor injuries to the individual and (or) to a third party. It may also cause malfunctions and

breakages to the product and (or) to the vehicle.

Please read carefully and understand the contents.

- This product is manufactured for vehicles used in circuits and closed courses.
- Notes on "how to use this product" and "installation procedures" are explained in detail in this manual.
- Blitz Co., Ltd and Blitz Performance Sales, Inc will not be responsible of any breakage and malfunctions caused in installing this product with a vehicle installed with a third party's product(s) and with a reconstructed vehicle.
- Blitz Co., Ltd and Blitz Performance Sales, Inc will not be responsible of any breakage, malfunctions and liabilities caused by wrong installation and usage.
- This product and its accessories may be changed without announcement for improvements.

CAUTION:

• Install this product at a well-ventilated area.

Ignoring this indication may cause a fire and (or) an explosion.

• Install this product and its parts firmly at a secured place that would not be of any interference while driving.

Ignoring this indication would cause an accident.

• This product is designed to work on 12V DC, and the ground is designed to be the chassis of the car.

It would cause a fire by installing this product other than a vehicle powered by a 12V DC

· Disconnect the ground line from the battery while installing this product.

It would cause a fire by an electric short, breakage of electronic part(s) and (or) burn(s).

• Disconnect the harness's connectors from the connectors it self. DO NOT pull from the

It would cause a fire by an electric short, breakage of electronic part(s) and (or) burn(s). Moreover, it would cause some malfunction(s) to this product. Discontinue utilizing this product and contact our retailers or us, if you notice some irregular noise and (or) odor from this product. By disregarding this (these) symptom(s), it would cause a fire, electrocution, and (or) breakage of electronic part(s). DO NOT operate this product while driving. It would cause an accident. DO NOT damage any wiring(s) and (or) piping(s) from the engine room while installing this product. It would cause a fire by an electric short, breakage to the engine, vehicle and (or) to the electronic part(s). Insulate the unnecessary wiring(s) for the installation. ATTENTION: About the LCD screen. The LCD screen may seem dark or distorted if seen through polarized sunglasses. Ask for a professional or a technician to perform the installation of this product. The individual performing this installation must have technical skills and knowledge to perform this installation. Do not drop or insert extreme force to the product while installing it. It would cause malfunctions. Do not misuse, abuse, alter, take apart and (or) modify this product in any way. It would cause an accident, fire, electrocution, and breakage and (or) burn the electronic parts. If any of the above indications are executed, the warranty of the product will be Do not install this product at a location where it could get wet and (or) highly heated. It would cause an electrocution, fire, breakage and (or) burns to the electronic components. · Does not heat the LCD screen over 60 degrees Celsius (140 degrees Fahrenheit) for a long period. It would cause the LCD screen to go black. Do not install this product while the engine and its components are hot; wait until they are fully cooled. It would cause burn(s) to you or to a third party if the engine, radiator, and the exhaust system were still hot. Please perform regular maintenance and be extra cautious.

the vehicle's driven condition and (or) climate, the durability may decrease.

This product's durability and components are thoroughly tested; however, depending on

Do not throw away the original detached components from the vehicle. Please keep the

Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes Oncomponents securely. Ual Not For Resale Purposes We are not liable from any damages caused to the components while installing it. Please be

We are not liable from any damages caused to the components while installing it. Please be extra careful through the installation.

- · Use the right tools to tighten the nuts and bolts.
 - It will damage the threads if you over tighten it or by using the wrong tools.
- This product has been designed and tested on vehicles with manufacturer's original components.

It would cause malfunctions to the product or vehicle if you have already installed a third party's product(s).

CATITION:

- Be fully careful when selecting the type turbo exhaust gas bypass.
 - There are actuator types and waste gate types. If the selection is mistaken, it may lead to breakage of the turbo, engine, and the vehicle itself.
- · Do not over boost.
 - Blitz Co., Ltd and Blitz Performance Sales, Inc will not be responsible of any breakages to the turbo caused by over boosting (Over Boosting).
- Do not perform operational checks and boost setups while driving on a public road.

 The distraction from the operation may cause an accident.
- Online Manual Not For Resale Purposes
 Online Manual Not For Resale Purposes

Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes OsbCi-Color parts list. (Check for all components) or Resale Purposes

Color LCD Display 1Pc	Sequential Valve Unit 1Pc	CPU Unit 1Pc	Main Harness 1Pc
Marie Upon Wahn Cash Timel		DESCRIPTION OF THE PROPERTY OF	
Center Harness (for SBC) 1Pc	φ 4- φ 6 Straight Joint 2Pc	Joint Pipe 1Pc	φ 6 Three Way 1Pc
	Ja Limil 1		
φ 6 Clamp 6Pc	φ 4 Hose Joint 1Pc	2M φ 6 Hose 1Pc	2M φ 4 Nylon Tube 1Pc
	Ua Maria Maria		
M6 Bolt & Nut Set 2Pc	Electro Tap 4Pc	Lock Tight 6Pc	Display Back Seal 1Pc
		or Resa	le Purpo le Purpo
Double Sided Tape (50 X 15) 2Pc	Double Sided Tape (50 X 30) 1Pc	Instruction Manual 1Pc	Wiring Manual 1Pc
		Burz / Sa	le Purpo

Online Manual Not For Resale Purposes
Online Manual Not For Resale Purposes
Online Manual Not For Resale Purposes

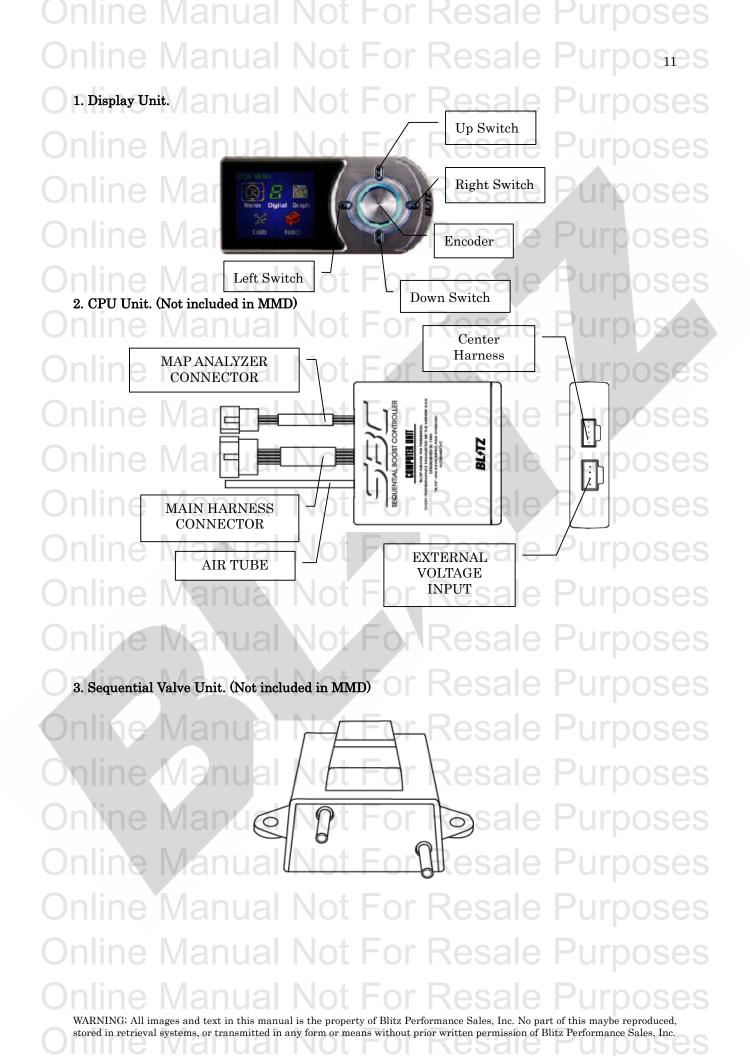
Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes OMMDi-Color parts list. (Check for all components) or Resale Purposes

	Color LCD Display	Center Harness	Center Harness	Wiring Terminal Set	
	1Pc	(for SBC) 1Pc	(for MMD) 1Pc	1Set	
Onl	ipo Wani	al Mot F	or Resa	le Paroos	e
Onl	mare ugas sagn			é Enpos	e
Onl	ine Mani	dal Not F	or Resa	le Rurpos	e
Onl	Electro Tap 2Pc	Double Sided Tape (50 X 15) 1Pc	Display Back Seal 1Pc	Instruction Manual 1Pc	

Wiring Manual 1Pc	ual	Not	FOL	Resa	le F	Purpo	ses
配線図	ual	Not	For	Resa	le F	Purpo	ses
	ual	Not	For	Resa	le F	Purpo	ses

Online Manual Not For Resale Purposes

WARNING; All images and text in this manual is the property of Blitz Performance Sales, Inc. No part of this maybe reproduced, stored in retrieval systems, or transmitted in any form or means without prior written permission of Blitz Performance Sales, Inc.



4. Harnesses and Connections. SBC i-Color: 5P Harness Connect to the Main Harness Connec to the MAP Analyzer (Sold Separately) 3P Harness Φ4 Nylon Tube Connect to the surge tank or a location that generates vacuum at throttle OFF. Speed Signal Center Harness (For SBC) RPM Signal Controller Harness AUX (Press Sensor, Temp Sensor BLATZ DATA 1~3 Ground (GND) 3P Harness 5P Harness External Voltage Input Harness **%Sold Separately** $\Phi\,4$ Nylon Tube MMD i-Color: Red: +12V Power Black: Ground (GND) Orange: Speed Signal Brown: RPM Signal Controller Harness AUX (Press Sensor, Temp Sensor Center Harness (For MMD)

Advice

Refer to the attached ECU wiring diagram for more information.

5. Installation procedure and method.

Warning on installation:

- 1. Remove the negative terminal of the battery.

 It will prevent the breakage and fire from parts by short-circuits, etc. Blitz will not be liable of any breakage and (or) damage to a vehicle and (or) other parts caused by attachment mistakes.
- 2. Be careful not to make mistakes installing the hoses for the solenoid unit since it has an IN and OUT. If the hoses are installed wrong, there is a possibility that the boost cannot be controlled. As a result, it might damage the engine and (or) the turbocharger.
- 3. Check that there aren't any air leaks at the connections. Make sure the hoses are perpendicularly cut and are very tight so they do not come off.
- 4. Install the hoses as far as possible from heat sources. They are easily influenced by heat. Heat is the cause of damaged hoses, which becomes the cause of air leaks.
- 5. Please attach the controller unit (DISPLAY) where it would not interfere from any operation and (or) driving.

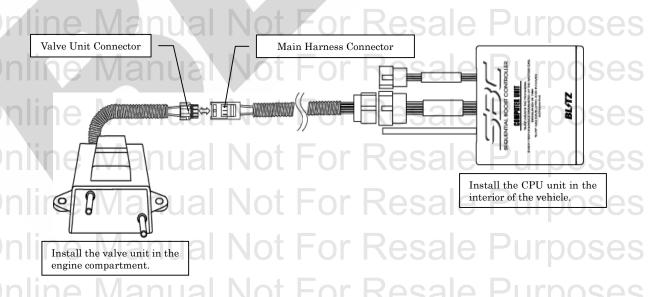
 It would be the cause of an accident.
- 6. A re-setting of the computer, additional fuel and so on may be needed are needed after installing this product.

Installation of the Sequential Valve Unit:

Use the supplied M6 bolts and washers to install the sequential valve unit within 1 meter from the turbo charger. (Do not install at a highly heated or humid location)

Advice

Long piping is the cause of slow response, which in term will cause symptoms such as over shooting and hunching of boost pressure.



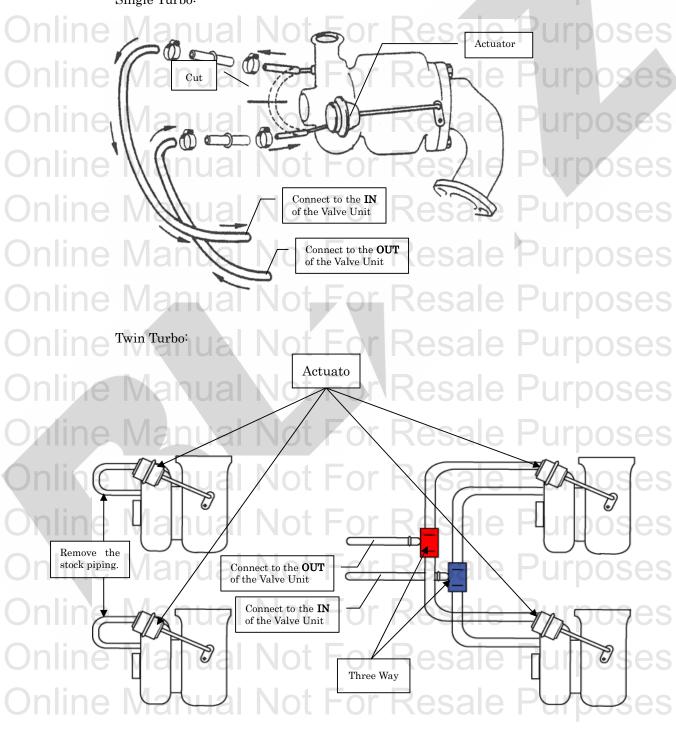
line Manual Not Piping methods to the Sequential Valve Unit.

Actuator (Swing Valve) Type.

- tuator (Swing Valve) Type.

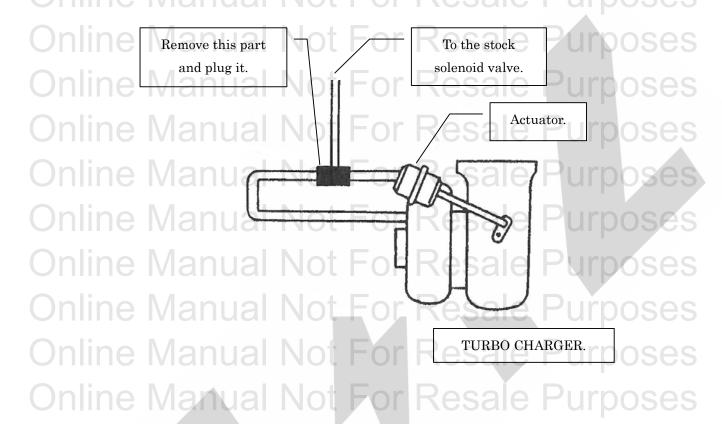
 1. Make sure the valve type is set as actuator type (AC) at the controller's function
- 2. Cut the actuator's hose and connect it to the OUT line of the solenoid valve unit.
 - 3. Cut the turbo's hose and connect it to the IN line of the solenoid valve unit.





A Solenoid valve control systems that are common on Nissan and Mitsubishi vehicles.

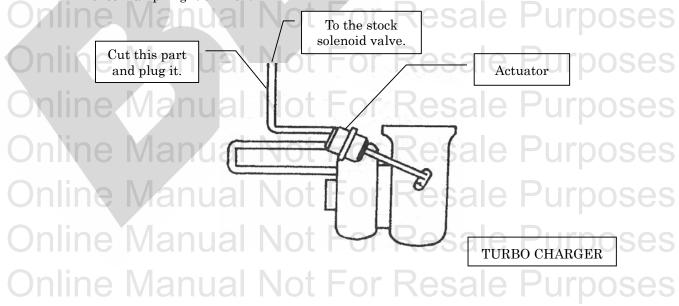
Please remove and plug the hosing that goes to the Solenoid valve, or return it to the suction pipe, but in some cases plug the suction pipe itself.



A two-mode control systems that are common on Toyota vehicles.

Please remove the hose that goes to the Solenoid valve and plug both the actuator and the solenoid side.

Please do not remove the connector to the solenoid valve. There are vehicles that the engine check lamp might turn on.

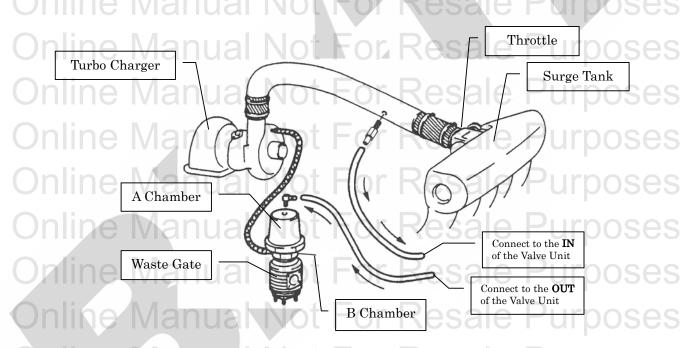


WARNING; All images and text in this manual is the property of Blitz Performance Sales, Inc. No part of this maybe reproduced, stored in retrieval systems, or transmitted in any form or means without prior written permission of Blitz Performance Sales, Inc.

Waste Gate Type.

- 1. Make sure the valve type is set as waste gate type (WG) at the controller's function menu.
- 2. Take the boost pressure between the turbocharger's compressor cover and the throttle valve and connect it to the IN of the solenoid valve unit. Make sure to use the clamps supplied with the kit.
- 3. Moreover, the same boost pressure (compressor cover and the throttle valve) must be connected to the B chamber (Lower chamber) of the Waste Gate. Make sure to use the clamps supplied with the kit.
- 4. Connect the OUT of the solenoid valve unit to the A chamber (Upper chamber) of the Waste Gate. Make sure to use the clamps supplied with the kit.

Note: If you have a TIAL, Turbonetics or other domestic manufacturer external waste gate using the A/C setting may provide more accurate control.

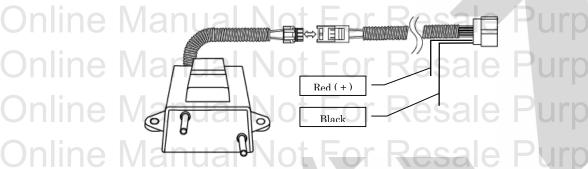


Online Manual Not For Resale Purposes

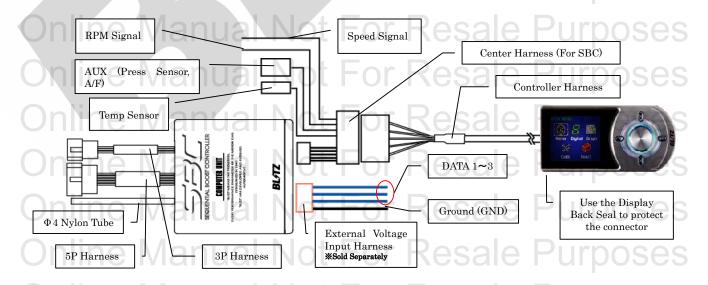
Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes

Steps:

- 1) Disconnect the battery.
- 2) Connect using the provided T pipe and $\Phi 4$ nylon tube from a location where vacuum and boost can be acquired to the CPU unit's $\Phi 4$ nylon tube.
- 3) Connect the valve unit connector to the main harness and wire in the main harness to the interior of the vehicle. Then connect the black wire (ground) and the red wire (power). The red wire must be connected to a power source that can supply +12 at IGN-ON.



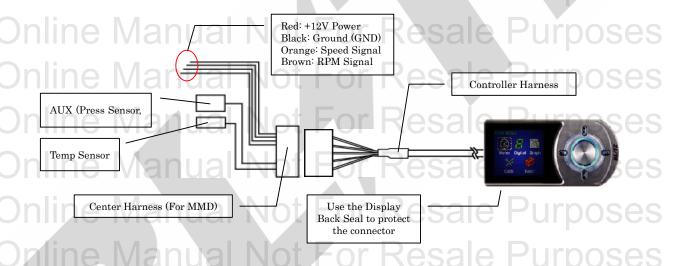
- 4) Connect the harness from the LCD Display to the center harness and connect the center harness to the CPU unit.
- 5) Using an electro taps, connect the:
 - Orange wire: Vehicle speed
 - Brown wire: RPM
 - (Take a look at the attached booklet for UCU wire diagrams)
- 6) Connection of optional sensors.
 - Connect the TEMP sensor, the PRESS sensor or the A/F sensor to the center harness. (Only the PRESS sensor or the A/F sensor can be connected to the AUX port)
 - If the PRESS sensor is connected to the AUX port, the A/F can be displayed through the External Voltage Input Harness. ****Sold Separately**
- 7) Install the LCD display at a location that would not interfere while driving. Moreover, bundle together all the wire with lock tights and double side tapes.
- 8) Normally the External voltage Input and the 3P harness remains unused.



Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes Online MMD i-Color LCD Display For Resale Purposes

Steps:

- 1) Disconnect the battery.
- 2) Connect the harness from the LCD Display to the center harness and connect the center harness to the CPU unit. Then connect the black wire (ground) and the red wire (power). The red wire must be connected to a power source that can supply +12 at IGN-ON.
- 3) Using an electro taps, connect the:
 - Orange wire: Vehicle speed
 - Brown wire: RPM
 - (Take a look at the attached booklet for UCU wire diagrams)
- 4) Connection of optional sensors.
 - Connect the TEMP sensor, the PRESS sensor or the A/F sensor to the center harness. (Only the PRESS sensor or the A/F sensor can be connected to the AUX port at once and the voltage (FIT Value) must be calibrated).
 - The TEMP sensor can be displayed just by plugging.
- 5) Install the LCD display at a location that would not interfere while driving. Moreover, bundle together all the wire with lock tights and double side tapes.



Installation of MMD i-Color to the SBC i-D.

Instead of using the MMD i-Color's center harness; keep using the SBC i-D's center harness to install the MMD i-Color to the SBC i-D. All the functions and operations will be the same as the SBC i-Color. However, the displayed units will all be changed to hkpa.

Online Manual Not For Resale Purposes

nline Manual Initial Setting

Basic function. (First of all, carry out the initial setting at the function and calibration mode).

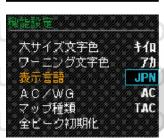


FUNCTION	
Large Font Color	YELL
Warning Color	RED
►Language	ENG
AC/WG	WG
Map type	TAC
All Peak Clear	

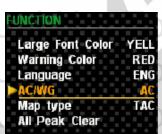
1)	Setting	of	language	and	type	of	exhaust	gas
	bypass.		dic	,				

Select "Funct" at the "ICON MENU" screen and then press the encoder.





Turn the encoder	to	select	the	language.	Press
the encoder again	to	confirm	n		



Follow the same steps to change the selection from AC (Actuator) or WG (Waste gate).

Be careful not to make mistakes in selecting the type of exhaust gas bypass since it might damage or break the engine.

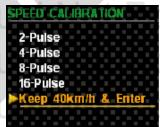




2) Setting of vehicle speed and RPM.

Select "Calib" at the "ICON MENU" screen and then press the encoder.





To calibrate vehicle speed, select "SPEED CALIBRATION" and choose from the types of pulses (2, 4, 8 or 16), or select "Keep 40 km/h & Enter" to calibrate the speed pulse. (40 km/h is approximately 24.8 mph)



Follow the same steps to calibrate RPM, select "TACHO CALIBRATION" and choose from the numbers of cylinders (3, 4 or 6), or select "Keep 3000 RPM & Enter" to calibrate the RPM pulse.

ne Manual



ALIBRATION Speed Calibration Tacho Calibration Voltage Input Setup Boost Setup **Boost Control Map**



Online May

Online M

Vehicle weight, type of drive train, running resistance (Power Loss). The power meter calculates the horsepower by detecting the speed signal and acceleration. Therefore, the weight, type of drive train and road resistance area play big factors in calculating the horsepower as accurate as possible.

Vehicle weight setting

At the CALIBRATION screen, select "Power Calibration" then press the encoder. Advice: Input the weight as detailed as possible to obtain an accurate reading. EX: weight of the vehicle, driver, passenger, gas, etc. (If the weight of the vehicle is less, it will display less horsepower, and vise versa)

Drive train setting

Select from 2WD or 4WD. (Select 2WD on vehicles with torque split type 4WD such as the Skyline GTR)

Running resistance (Power Loss) setting

Select from -15 to 34 to compensate the losses incurred from air resistance and road resistance. (See the chart to input the resistance value for your particular type of

Wheel spin distance setting

Can be set from 0M to 50M.

It avoids abnormal reading caused from wheel spins at start up. (We recommend to set at 10M as shown in default)

I Not For Decole Division	
Resistance Chart	$oldsymbol{O}$
Vehicle Type	-2
Mini vans w/ a displacement of less than 1000 cc	-1
NA Vehicles from 1000 cc ~ 1600 cc	-2
Turbo Vehicles w/ a displacement of more than 1600 cc	0
Sport Vehicles w/ a displacement of more than 3000 cc	0
4 Door Sedan	2
Station Wagons Company Company	2
Mini Vans	3
suv of For Resale Pur	5
RV TOLI OF IXOSAIC I GI	8



4) Boost Set Up
Select "Boost Setup" at the "CALIBRATION" screen and then press the encoder.

ual Not For Resale Purposes ual Not For Resale Purposes

Channel CH2 Auto/Manu AUTO Set 0.60 Gain 5 Limiter OFF Scramble Time OFF

AUTO (Automatic boost set up)

4 different settings can be chosen from 4 different channels (CH). First choose a CH that would be set as the base CH.

Operation method:

Turn the encoder to select "Channel" and then press the encoder. Turn the encoder to select the CH ($CH1 \sim CH4$) and then press the encoder on the desired CH to confirm.



Select "AUTO" for automatic boost control.

Note: Automatic mode is not as accurate as the manual mode.

Operation method:

Same as "Channel" (shown above)



Input the desired boost value. Units in hkpa from $0\sim2.45$.

	hkpa	kg/cm2	bar	a tm	mmHg	psi
1	1 1	1.02		0.987	750	14.5

Channel CH1
Auto/Manu AUTO
Set 1.20
Gain 20
Limiter OFF
Scramble Time OFF

Input the desired GAIN value.

GAIN is the adjustment of boost response.

The larger the number, the faster the response of the boost and vice versa. From 0 \sim 100.

We recommend setting the GAIN on:

Stock turbo: $15{\sim}25$.

Sequential, ball bearing turbo: $5\sim15$.

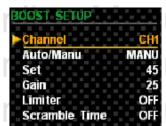
Auto/Manu AUTO
Set 1.20
Gain 20
Limiter OFF
Scramble Time OFF
Scramble Channel CH1

The limiter and scramble function will be explained later. The initial setting will be OFF at this time.

al Not For Resale Purposes al Not For Resale Purposes al Not For Resale Purposes

WARNING; All images and text in this manual is the property of Blitz Performance Sales, Inc. No part of this maybe reproduced, stored in retrieval systems, or transmitted in any form or means without prior written permission of Blitz Performance Sales, Inc.

Online Manual Not For Resale Purpose



MANU (Manual boost set up)

4 different settings can be chosen from 4 different channels (CH). First chose a CH that would be set as the base CH.

Operation method:

Turn the encoder to select "Channel" and then press the encoder. Turn the encoder to select the CH ($CH1 \sim CH4$) and then press the encoder on the desired CH to confirm.



Select "MANU" for manual boost control.

Operation method:

Same as "Channel" (shown above)



Input the desired "Point" value. $0 \sim 100$ units.

Advice:

Point method represents the ratio between the normal boost pressures. It is not the direct value of the boost pressure. The point 0 represents the Max normal boost (boost pressure set by the manufacturer) and the point will go up to 100, which the boost pressure will keep rising up to the limit of the vehicle (the turbo) can handle.

ATTENTION:

Ignoring these indications may cause injuries or minor injuries to the individual and (or) to a third party. It may also cause malfunctions and breakages to the product and (or) to the vehicle.

Channel CH1 Auto/Manu MANU Set 45

Limiter

Scramble Time

25

OFF

OFF

Input the desired GAIN value.
GAIN is the adjustment of boost response.
The larger the number, the faster the response.

The larger the number, the faster the response of the boost and vise versa. From $0\sim100$.

We recommend setting the GAIN on: Stock turbo: $15\sim25$. Sequential, ball bearing turbo: $5\sim15$.

Can be set at 25~+ if a faster response and overshooting is desired



The limiter and scramble function will be explained later. The initial setting will be OFF at this time.

Not For Nesale Fulpose

With above steps finished, the boost controller can be used.

WARNING; All images and text in this manual is the property of Blitz Performance Sales, Inc. No part of this maybe reproduced, stored in retrieval systems, or transmitted in any form or means without prior written permission of Blitz Performance Sales, Inc.

Explanation of basic operation and MODE

1. Basic operation

Turn the encoder to select and change the values or units. Push (press) the encoder to confirm. Keep pressed the LEFT switch for over three seconds and the peak value will be cleared. Press the RIGHT switch and it will go back one operational step. The UP and DOWN switch can be used as a shortcut keys.

Right Switch

Bown Switch

Down Switch

2. ICON MENU

Left Switch

Turn the encoder to select from the 5 ICONS (METER, DIGITAL, GRAPH, CALIBRATION, FUNCTION) and then push (press) the encoder to confirm the desired icon.

Press the LEFT switch for a short period and the LCD will shift from night to day illumination and vise versa.

Press the RIGHT switch and it will jump to the "Needle Meter" display.

Press the DOWN switch and it will jump to the "Six Fold" display.

Boost control functions will not be displayed if used as MMD i-Color



CON MENU

Meter Digital Graph

Funct

Calib



1. Meter Icon

An analog meter with four different background colors and able to display 8 different sources of data such as:

- · Boost
- ·Speed
- Tach
- Power

- Temp
- A/F
- · Fuel pressure
- · Oil pressure

2. Digital Icon

A digital meter that can display two or six data simultaneously from 9 different data sources and can record and replay up to 10 minutes. (The record and replay function is only valid on digital display)

- Speed
- · Tach
- · Power
- Temp
- · AUX (A/F, Press)
- \cdot BOOST
- · DATA 1 (External Input)
- · DATA 2 (External Input)
- · DATA 3 (External Input)

3. Graph Icon

It is able to function as a chassis dynamo which can graphically display the curve lines of horsepower and torque. Moreover, it also can graphically display the measured data such as the A/F, boost and power/torque. The horizontal axis is always the RPM.



4. Calib Icon

A mode to input the initial adjustable values on six items. Functions will not work properly if it is not set up after initial power up of the SBC or MMD.

· SPEED

• VOLTAGE

TACHOPOWER

· BOOST SET UP · BOOST MAP

Boost control functions will not be displayed if used as MMD i-Color. (Only 4 items)



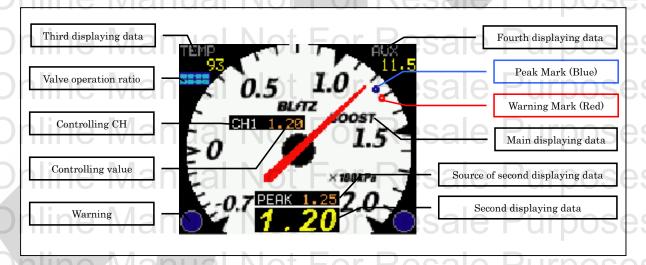
5. Funct Icon

A total of 24 detailed settings can be set here. For example, display direction, warning, unit change, font color, etc are customized.

3. Needle Meter

It simultaneously displays 4 different sources of data on an analog type meter screen. (The design of the meter's face can be chosen from white, black, carbon and blue)

It can also easily jump to the SBC setting by a shortcut.





Press the LEFT switch to shift from night and day illumination and vice versa.

Press the LEFT switch for over 3 seconds and it will only clear the peak value of the displayed data.

Press UP to switch the screens from Meter screen \rightarrow Boost Set up \rightarrow Dual digital screen \rightarrow Six fold digital screen \rightarrow Result screen \rightarrow Chassis dynamo screen \rightarrow A/F graph screen

 \to Boot graph screen \to MAP screen \to Speed MAP screen (The screen will shift to the other direction by keeping pressing the UP switch)

(The boost setup, boost graph and MAP screen will not be displayed if it is not connected to the CPU unit)

Press the DOWN switch to change the meters from Boost pressure \rightarrow Speed \rightarrow RPM – Horse Power \rightarrow Temp \rightarrow A/F \rightarrow Fuel Press \rightarrow Oil Press.

(The boost pressure will not be displayed if it is not connected to the CPU unit)



Press the RIGHT switch to go back to the ICON MENU.

Turn the ENCODER to change the design of the back ground from white



Pressing the encoder button for over 2 seconds will shift to the boost control CH change mode.

Press the encoder again to confirm the change or press the RIGHT switch to cancel the operation.

The UP Switch is also a short cut key to return from the CH change mode and controlled value change mode and the changes will take effect.



By pressing the encoder once again, it will shift to the change mode of the boost set value. The changes will take effect instantly in a case of MANU mode.

See the AUTO and MANU boost set up for detailed explanation.

The changes will only take effect after the encoder is pressed while at ATUO mode.

Press the RIGHT switch to go back to the previous screen or press the UP switch to confirm the changes and go back to the previous screen.



Will shift to the display items (second $\,\sim\,$ fourth) change mode by pressing the encoder for a short while at the first screen. It will return to the previous screen if any operation is not performed for 10 seconds. The second item is the selection of the "METER PK" displayed



value of the needle. Cannot be left blank in this case.

The needle will turn red and blink when the first item displayed at the needle meter becomes warning. The set warning will be displayed when the digital values of the second \sim fourth items becomes warning.

The source of the warning will pop out when a warning is set.

The controlled CH will be displayed in red when the boost pressure of the controlled CH is still in learning.



There is a slight difference in the location for the Peak Mark and the actual digital value of the Peak value. For example, the digital peak value is set at 0.80 hkPa but the Peak Mark

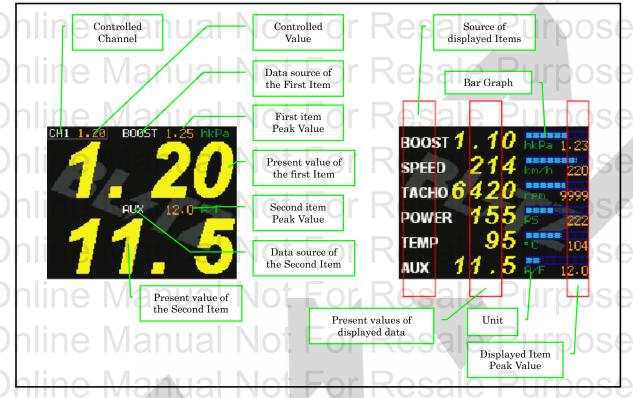
would be located at 0.804 hkPa.



There is also a slight difference in the location of the Warning Mark and the set warning digital value because of the digitally processed dots.

4. <u>Digital</u> Meter (Dual & Six Fold)

Displays in digital and bar graph the selected data sources. The types of display are Dual and Six Fold and the boost settings can be easily changed at the Dual display.





All the digital values are processed to keep displaying for 0.6 seconds and the bar graphs are processed to display in real time.

The digital value will also change when the Peak value is changed. Moreover, the color at the digit will change when the warning value is reached.

The Peak value will be displayed as a warning color for 3 seconds when the Peak value is updated.



Selection method of the screen

A selection border will pop up by pressing the encoder switch. Choose the item wanting to make changes by rotating the encoder and confirm by pressing it. Then it will shift to a selection screen with a list of items to choose from.

The changes will be canceled and it will go back to the selection screen by pressing the RIGHT switch or it will return to the digital display screen without making any changes if no operation is performed for 10 seconds.

It will shift from day and night lighting by pressing the LEFT switch for a short moment. (This operation is the same on every screen)

Press the LEFT switch for over 3 seconds and it will only clear the peak value of t

Press the LEFT switch for over 3 seconds and it will only clear the peak value of the displayed data.

It will go back up one MENU by pressing the RIGHT switch.

BOOST 0 . 00 MPH 0.00 SPEED 0 MPH 0 TACHO 0 S COMPANDE OF TACHO 0 S COMPANDE OF TEMP --- C 20 AUX 9 . 10 AF 9.10

Press UP to switch the screens from Meter screen \rightarrow Boost Set up \rightarrow Dual digital screen \rightarrow Six fold digital screen \rightarrow Result screen \rightarrow Chassis dynamo screen \rightarrow A/F graph screen \rightarrow Boot graph screen \rightarrow MAP screen \rightarrow Speed MAP screen (The screen will shift to the other direction by keeping pressing the UP switch)

(The boost setup, boost graph and MAP screen will not be displayed if it is not connected to the CPU unit)

Up dated Peak value





Record and Replay Function

Press the DOWN switch for over 3 seconds to start recording.

Press the DOWN switch for over 3 seconds again to stop recording.

The Peak value will turn red if the peak value is updated while recording

Press the DOWN switch while recording to start re-playing.

Turn the encoder to rewind or fast-forward while re-playing.

Press the DOWN switch to stop re-playing.

The maximum recording time is 10 minutes and 9 seconds.

The recorded data will be erased at IGN-OFF.

The Peak value will not be displayed at re-play.

The boost controller and all other functions will work normally while re-play.

It can change screens while at recording or re-playing. In this case, it can display the data in real time on other screens even while re-playing.

The units for speed, horsepower and the settings of the voltage at AUX DATA $1{\sim}3$ can be changed while recording or re-playing.

The displayed items can be changed since all the data source are recorded

BOOST 0 . 62 hkpa SPEED 165 km/h TACHO 3110 hph POWER 68 5 TEMP 95

The scales of the Six Fold bar graph are fixed as shown.

Speed: $0\sim260 \text{ km/h}$.

RPM: $0\sim10,000$ rpm. Horsepower: $0\sim350$ ps.

Temperature: $20\sim150$ °C.

Boost: -0.8~2.00 hkPa.

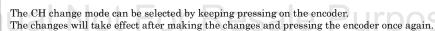
Voltage: FIT Value.

The following functions are only valid at the Dual Digital Meter

A warning indication will pop up at the bottom of the screen











By pressing the encoder once again, it will shift to the change mode of the boost set value. The changes will take effect instantly while at MANU mode.

The changes will only take effect after the encoder is pressed while at ATUO mode.

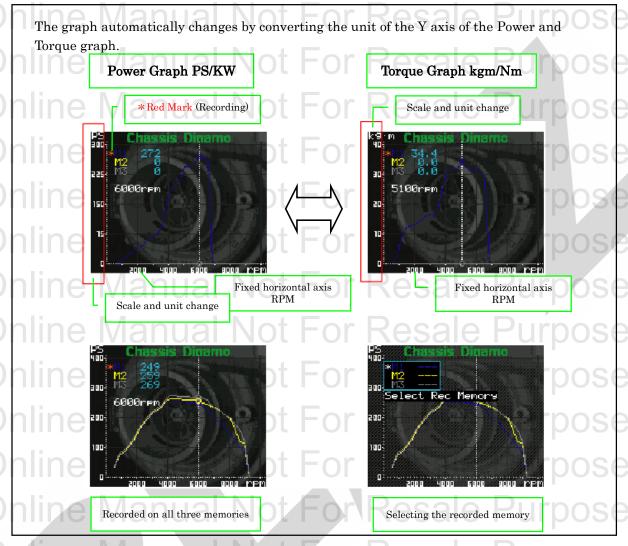
No changes can be done while recording or re-playing and vise versa.

ual Not For Resale Purposes ual Not For Resale Purposes

WARNING; All images and text in this manual is the property of Blitz Performance Sales, Inc. No part of this maybe reproduced, stored in retrieval systems, or transmitted in any form or means without prior written permission of Blitz Performance Sales, Inc.

5. Graphic Display.

It can be composed of 4 overlapped result graphs. The horizontal axis is the RPM.



①. Chassis Dynamo Graph (Three channels of chassis dynamo are graphically displayed)

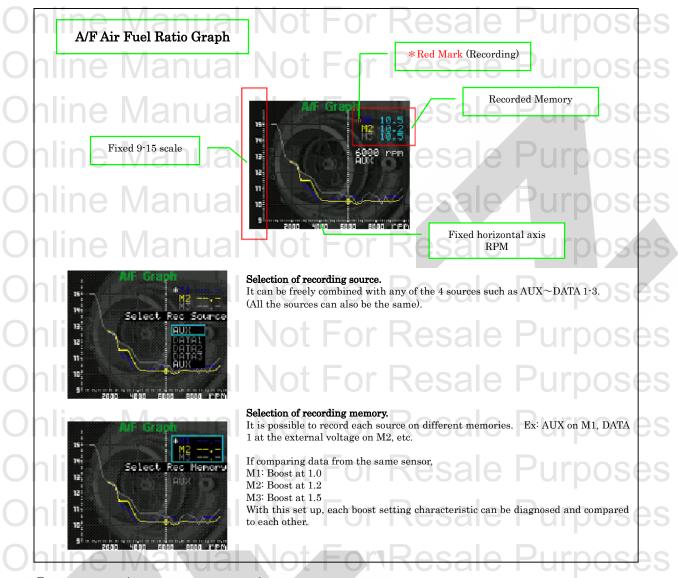
Turn the encoder and the cursor will move right and left to display the horsepower at the intersecting point of the graph line and RPM.

Press the encoder to highlight the recording channel; then, turn the encoder to select a channel number. Press the encoder to confirm the changes and it will shift to the unit setting. Choose the desired unit from 4 selections of units by turning the encoder. Press the encoder to confirm the changes and it will shift to the scale setting. Select the scale of the Y-axis by turning the encoder (The RPM at the X-axis is fixed). Press the encoder to confirm the changes and it will shift back to the chassis dynamo graph (Press RIGHT to cancel the changes and to return to the previous screen) Keep pressing the LEFT switch for 3 seconds to clear the memory with the * or keep pressing for 3 more seconds to clear all the three memories. Press UP to switch the screens from Meter screen \rightarrow Boost Set up \rightarrow Dual digital screen \rightarrow Six fold digital screen \rightarrow Result screen \rightarrow Chassis dynamo screen \rightarrow A/F graph screen \rightarrow Boot graph screen \rightarrow MAP screen \rightarrow Speed MAP screen (The screen will shift to the other direction by keeping pressing the UP switch)

(The boost setup, boost graph and MAP screen will not be displayed if it is not connected to the CPU unit)

Advice:

Press DOWN to show only the graph. This function will take effect for 6 seconds.



2. A/F Graph (Air Fuel Ratio Graph)

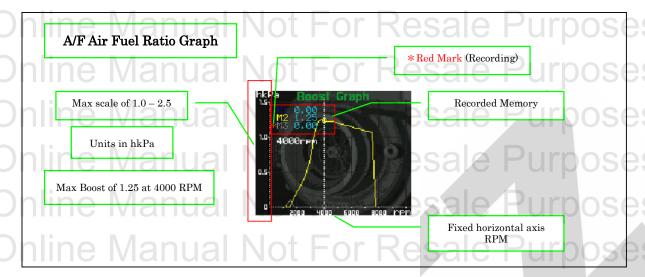
It records and displays three memories of A/F graph based on RPM Advice:

Make sure to setup the external voltage input of 16.0 V to read as 16.0. An optional amp unit can also be attached to the AUX port.

Turn the encoder and the cursor will move right and left to display the A/F ratio at the intersecting point of the graph line and RPM. Press the encoder to highlight the recording channel; then, turn the encoder to select a channel number. Press the encoder to confirm the changes and it will shift back to the graph display screen (Press RIGHT to cancel the changes and to return to the previous screen)

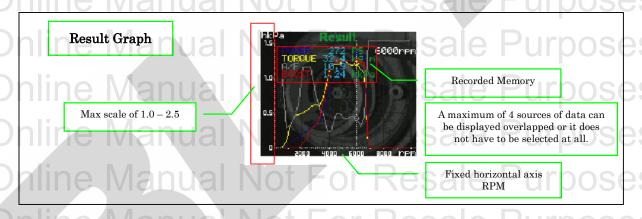
All the other functions are the same as the Chassis Dynamo Graph.

Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes



3. Boost Graph

It records and displays three memories of boost graph based on RPM. Turn the encoder and the cursor will move right and left to display the boost at the intersecting point of the graph line and RPM. Press the encoder to highlight the recording channel; then, turn the encoder to select a channel number. Press the encoder to confirm the changes and it will shift to the scale setting. Select the scale of the Y-axis by turning the. Press the encoder to confirm the changes and it will shift back to the boot graph (Press RIGHT to cancel the changes and to return to the previous screen). All the other functions are the same as the Chassis Dynamo Graph.



4. Result Graph

Displays simultaneously the chassis dynamo power, chassis dynamo torque, A/F and boost based on RPM. Turn the encoder and the cursor will move right or left to display the boost at the intersecting point of the graph line and RPM. Press the encoder to shift to the display setting change mode. Move the cursor to the desired item and then press the encoder to confirm. It will shift back to the previous screen if it is left without operation for 10 seconds.

The graph will not be displayed if the $M1 \sim 3$ is selected as "--".

Press RIGHT to cancel the changes and to return to the previous screen.

All the other functions are the same as the Chassis Dynamo Graph.

Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes

6. Calibration Mode.

Initial setting and calibration in using the SBC or MMD



Speed Calibration A selection of 2P, 4P, 8P, 16P and 40km/h are available. (A maximum capability of

Calibration is not needed if the pulse of the vehicle is known. However, if the pulse is not known, the "Keep 40km/h & Enter" calibration must performed to acquire a reliable speed pulse.

Keep performing the "Keep 40km/h & Enter" calibration until a reliable speed pulse



RPM Calibration

A selection of 3, 4, 6 cylinders and 3000 RPM are available depending on the vehicle. Keep the engine RPM at 3000 and press the encoder to calibrate the RPM is the default settings cannot obtain a reliable RPM. (A maximum capability of 18 cylinders)

2WD/4WD 2WD Power Loss Wheel Spin 10 m

Horsepower Calibration

Input the following 4 items by turning the encoder.

Weight of the vehicle.

100~4500 kg.

Type of drive train.

2WD or 4WD

Road resistance.

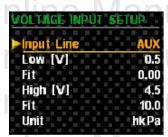
 $-15\sim+34$. (See the attached list for reference)

Wheel spin distance.

 $0\sim50$ meters

Advice:

Make sure to input a data as accurate as possible for a reliable calculation.



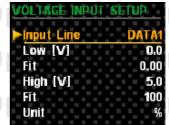
Setting of Voltage Data

It sets the displayed unit value and the inputted voltage value to be displayed as a two-point relation.

One AUX port and three external voltage inputs are available. An optional harness is necessary for external voltage input.

Code 19211 Press Sensor FIT value would be as follow. Input Line AUX: Low=0.5V-FIT=0.00, High=4.5V-FIT=10.0

(FIT Value of = 10.0) X 100kPa = 1000kPa (Pressure value) 1.00 psi = 6.89 kPa.



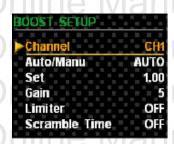


Explanation of Input Voltage Display

Input Line:	AUX, DATA1~3
Low Voltage:	$0.0 \sim 16.0 \text{V}$
High Voltage:	$0.0 \sim 16.0 \text{V}$
Low FIT Value:	$-999\sim9999$
High FIT Value:	-999~9999

T Value Display Units:	$0.00 \sim 9.99$
	$10.0 \sim 99.9$
	100~999
	$-01 \sim -99$
al Not Ea	$-10 \sim -999$

Unit: A maximum of 5 digits.



⑤ Boost Setting Settings on CH1 \sim 4, EXT, OFF, AUTO/MANU (SET 0.00 \sim 2.45/0 \sim 100) , GAIN 0 \sim 100

CH1~4: Set the desired boost on each CH.

EXT: Interfacing function with an optional MAP analyzer.

OFF It cancels the boost control function. As a result it operates only on

the actuator's operation pressure.

MAP Automatically changes the setting of the boost depending on the

vehicle speed or RPM.

AUTO/MANU Switch-over of Auto and Manu setting of boost control.

SET AUTO $0.00\sim2.45$ hkPa MANU $0\sim100$ Point type.

GAIN Ratio 0∼100

Configures the characteristics of boost lag.



6 Selection of Learning Modes at AUTO Mode

There are times the self learning period at AUTO mode does not finish and keeps over shooting because of high response turbo or vehicles equipped with twin turbo. In this case, change the self learning method at the AUTO mode.

Press DOWN for 5 seconds and a "RESPONSE" and "KEEP GAIN" will appear on the screen.

Response:

NORM: Default setting. It is the fastest for the boost to build up.

MILD: The starting point of boost is the same as NORM, but it is slightly slower to reach its peak.

SLOW: It is the slowest in the starting point of boost and reaching its peak; however, it the setting with least boost over shoots which leads to

faster learning period.



Advice:

It continues to adjust itself even after the self-learning mode (Red CH mark) disappears. The reason for this is because there are times the feedback value might greatly differ and to compensate it, it must continuously keep self-learning.

Moreover, even if the set boost is 1.0 hkPa, the AUTO mode restrain the over shoot of the boost by stabling the boost at 0.98 hkPa. (This is not a malfunction)

Online Manual Not For Resale Purposes Online Manual Not For Resale Purposes



7 Limiter

If the boost pressure reaches the warning value, it will shift the boost to the limit pressure set at warning.

Configuration Method

Input the desired Point Value of $1\sim100$. (The points are the same as the MANU Mode) If the point value is not known, drive the car and verify the ratio between the point value and the hkPa. Another way is to change the Boost set up screen from AUTO to MANU and verify the point value at the MANU mode if the self-learning mode at a CH set on AUTO mode is finished.

%If the encoder is turned and pressed, the self-learning value will be cleared and shift to MANU control.



EX: Prevention of over shoot

Boost set at 1.0 hkPa at AUTO mode Warning set at 1.05 hkPa, and limiter set at 1.0 hkPa. The MANU point value is 34 when switched from AUTO Mode 1.0 hkPa. Therefore, set the limiter point value at 34.

Online Manual Not For Resale Purposes

WARNING; All images and text in this manual is the property of Blitz Performance Sales, Inc. No part of this maybe reproduced, stored in retrieval systems, or transmitted in any form or means without prior written permission of Blitz Performance Sales, Inc.

Co relationship of the Limiter and Warning

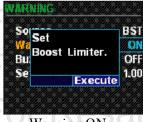
	Limiter ON	Limiter OFF
Warning	Boost Warning is Automatically Turned ON	Boost Warning is Automatically Turned OFF

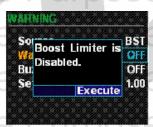
	Warning ON	Warning OFF
Limiter	Set the Boost Limiter	Boost limiter Disabled

List of Warning Messages in English









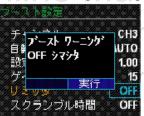
Limiter ON

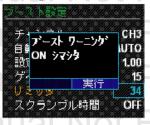
Limiter OFF

Warning ON

Warning OFF

List of Warning Messages in Japanese









BOOST SETUP	
Channel	СНЗ
Auto/Manu	AUTO
Set	1.00
Gain	15
Limiter	34
Scramble Time	5
\$1906 100 100 100 100 100 100 100 100 100 1	1/2 MAY 10 MAY

Scramble Time Time: OFF~99

The scramble function will not work if the time is set as 0.

The maximum is 99 seconds.

The diagram on the left is when the scramble time is set at 5 seconds.

9 Scramble Channel

In put the CH1 \sim 4 to be set as scramble.

Make sure the self-learning mode is finished at the AUTO CH selected as the scramble channel.

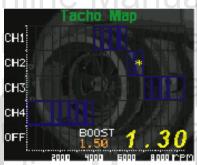
An "SC" mark will be displayed at the needle meter screen when the scramble mode is set for more than 1 second.

Auto/Manu AUTO
Set 1.00
Gain 15
Limiter 34
Scramble Time 5
Scramble Channel CH4

nline Manual Not For Resale Purposes

Note that the property of Blitz Performance Sales, Inc. No part of this maybe reproduced,

e Manua RPM MAP Controls the boost based on RPM. CH1 CH2 CH3 CH4 OFF Configuration Method: CH1 16 blue frames represent the MAP. The maximum RPM is 9000. CH2 A yellow cursor represents the present tracing. When the controlled CH is not the MAP, the "*" mark will trace the CH3 controlled CH. The trace mark will is not displayed at the EXT control. CH4 The boost and the peak value is displayed at the left bottom of the screen. Press the LEFT switch for over 3 seconds and it will clear the boost peak OFF value. The digital display specs are the same as the dual and six fold digital display. Press the encoder and the blue frame will change to orange to select the location and turn the encoder to select the RPM range where changes would CH1 take place. Press the encoder to confirm the changes and it will shift to the change screen. Select the CH1~OFF by turning the encoder. Press the CH2 encoder to confirm the changes and it will shift to the MAP display. (Press снз RIGHT to cancel the changes and to return to the previous screen) CH4 0**F**F CH1 CH2 снз CH4 OFF





11) Speed MAP Controls the boost based on Speed. The operating methods are the same as the RPM MAI

WARNING; All images and text in this manual is the property of Blitz Performance Sales, Inc. No part of this maybe reproduced, stored in retrieval systems, or transmitted in any form or means without prior written permission of Blitz Performance Sales, Inc.

Online Manual Not For Resale Purposes

7. Function Mode.

Initial setting and calibration in using the SBC or MMD



arning					
	Warning Supervision	To Do	Not To Do		
	Buzzer	Alert	Not Alert		
	Direction of Supervision	OVER	UNDER		
	Set Value	Depends on the input source			
	 				

Advice:

The direction of supervision of the boost is fixed to OVER.

A limiter selection window will pop up when the boost-warning switch is selected. The limiter function will take effect when the boost-warning switch is turned ON.

Example of Source Selection





Source: Speed



Source: Temp



Source: Boost **Example of Meter Warning**









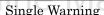
Source: AUX

Advice:

The needle center will blink red when both the warning source screen and the meter screen are the same. However, it will alert by a source pop up and a buzzer when the warning source and the meter are not the same. At the same time, the blue circles at the bottom corners will turn red.

Example of Digital Warning







Dual Warning

Advice:

At the Dual Digital Meter, the warning source will pop up at the bottom of the screen.



Contrast
 Adjust from 0~100.
 Try to adjust so that the black and white can be clearly identified.
 Changes in contrast will not take effect below 25 and above 57.

Warning
Contrast 55
Back Light 90
Dimmer 20
LCD Direction REV
LCD Offset 32

 $\ \ \,$ Back Light Adjust the brightness from $0{\sim}100.$



Dimmer Adjust from $0 \sim 100$.

Commonly used by pressing the LEFT switch.

FUNCTION

Warning
Contrast 55
Back Light 80
Dimmer 20
LCD Direction VER
LCD Offset 32

4 LCD Direction

A multi angle function that can be chosen from Normal, Reverse and Vertical.

Advice:

The Right, Left, Up and Down switches are automatically reconfigured by changing the LCD direction.

Multi Angle Function



Reverse Position Vertical Position



Normal Position

Dimmer 20
LCD Direction REV
LCD Offset 32
Peak Mark ON
Warning Mark ON
Speed Unit km/h

5 LCD Offset

It adjusts the offset of the LCD while viewed vertically.

Advice:

The LCD display is basically made to be viewed horizontally. Therefore, the edges are cut off when viewed vertically. We suggest to set the offset at the position used the most.



⑥ Peak Mark A setting to display or not to display the blue peak ○ at the Needle Meter.

al Not For Resale Purposes

Warning Mark
 A setting to display or not to display the red warning O at the Needle Meter.

Peak Mark ON Warning Mark ON Speed Unit PS Needle Center ON Opening Image 2

al Not For Resale Purposes

Speed Unit Choose from km/h or MPH.

Warning Mark ON
Speed Unit MPH
Power Unit kW
Needle Center ON
Opening Image 2
Digital Screen COMP

Power Unit
 Choose from PS or kw.

Advice:

When the units are changed, the warning value, peak value and the meter units are automatically changed.

However, it will not conjunct with the chassis dynamo screen units.

Needle Center
 It displays the center of the needle.





(i) Opening Image Choose from the following tree choices.







Digital Screen Choose from the following three background designs. B00ST 1.2 SPEED 400 SPEED SPEED BLACK Type LOGO Type COMP Type (3) Graph Screen Choose from the following three background designs. 6000rpm 6000rpm 6000rpm LOGO Type COMP Type BLACK Type Menu Screen Choose from the following four background designs. PŞ Power Unit PS Power Unit **Power Unit** PS Power Unit PS Needle Center **Needle Center** OFF ON **Needle Center** ON Needle Center OFF Opening Image Opening Image Opening Image Opening Image -2 BLACK LOGO Digital Screen LOGO Digital Screen Digital Screen Digital Screen BLACK BLACK COMP Graph Screen Graph Screen Graph Screen COMP Graph Screen BLACK nu Screen LOGO Type CARBON Type BLACK Type COMP Type Font Color Choose the color of the Mid size fonts from 10 colors as shown at the screens below. (Ex: Orange Color) SPEED dd Font Color ORAN TACHO BL TZ Large Font Color YELL BOOST POWER **Warning Color** RED снз BOOST 0 . 00 Language ENG AC/WG WG TEMP TAC Map type WARNING; All images and text in this manual is the property of Blitz Performance Sales, Inc. No part of this maybe reproduced, stored in retrieval systems, or transmitted in any form or means without prior written permission of Blitz Performance Sales, Inc.

Choose the color of the Large size fonts from 10 colors as shown at below dual digital meter. (Ex: Blue Color) B00ST 1.25 1.20 Midd Fent Color BLUE Large Font Color YELL **Warning Color** RED SPEED 400 km/k Language **ENG AC/WG** AC Map type TAC Dual Digital Meter Warning Colors: The color of the warning can also be set. (EX: Red Color) UNCTION Menu Screen LOGO BLATZ CH1 0.60 ORAN Midd Font Color BLUE Large Font Color Language **ENG** AC/WG WG Warning set at 1.0 hkPa Language Choose a language. (English or Japanese) Large Font Color YELL (Shown in English) Warning Color RED AC/WG WG Map type TAC All Peak Clear 丰和 大サイズ文字色 エング文字色 刀力 JPN AC AC/WG マップ種類 TAC 全ビーク初期化 ① AC/WG Select the type of valve. Large Font Color YELL Warning Color RED ENG Language Make sure to select the correct type of valve since it might damage or break the vehicle. Map type TAC All Peak Clear WARNING; All images and text in this manual is the property of Blitz Performance Sales, Inc. No part of this maybe reproduced, stored in retrieval systems, or transmitted in any form or means without prior written permission of Blitz Performance Sales, Inc.

