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ADVANCE SYSTEM

Main Features

- The advanced system (interactive communication) is implemented.
- Operation from distance is enabled using a remote control switch unit.
- Flat glass, high-definition scale and long, narrow pointer provides accurate indication and high visibility.
- The opening mode and ending mode can be selected from two variations.
- To install additional gauges, you can just make connection between gauges and attach the wire from the sensor to the advance control unit.
- Our original stepping motor is used to enable a smooth, instantaneous response to high performance sport driving.
- The microcontroller calibrates up to 270° of deflection angle in 3072 to 4600 segments (0.088° to 0.059°) and provides accurate vehicle information.

- Self-diagnosis function detects a disconnection of wire, short circuit and communication error, and indicates the error condition with the warning LED.
- A warning value (arbitrary) can be set. Buzzer sounds when the warning LED (red) is turned on (buzzer sound can be turned on/off).
- Data obtained during driving (peak value and warning value) can be stored up to three minutes, and the data can be replayed after driving.
- A dedicated mounting bracket and meter cup are provided as standard equipment.
- With both fuel pressure gauge and turbo installed, differential pressure can be displayed on the fuel pressure gauge.

Now on sale in Thailand (preceding launching)



△C2 will go on sale in June, 2013 in other countries.

[ADVANCE Series connection diagram]



One advance control unit can control up to 7 gauges.
※Do not connect more than one gauge of the same variety.

- △ The products of Defi-Link ADVANCE SYSTEM cannot be connected with the products of Defi-link System.
- △ Sensor attachments (1/8PT) are necessary to install oil press, fuel press, oil temp, and water temp sensors.
- Defi-Link Meter ADVANCE CR and ADVANCE BF need to be used with the ADVANCE control unit.
- Do not connect more than one gauge of the same variety. (Ex. You can NOT connect 2 turbo gauges together.)

Product Specifications

Power Supply Voltage: Supplied from Defi-Link ADVANCE Control Unit	Display Range Turbo Intake Manifold Press. Fuel Press. Water Temp. Tachometer (φ60, φ80)	-100kPa~+200kPa -100kPa~+20kPa 0~600kPa 20~120°C 0~9000rpm	Turbo Oil Press. Oil Temp. Exhaust Temp. Tachometer (φ80 only)	-100kPa~+120kPa 0~1000kPa 50~150°C 200~1100°C 0~11000rpm
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ADVANCE CR White models



ADVANCE BF Blue models



The features of ADVANCE CR

- Color change
- Red ring illumination



Defi-Link ADVANCE Control Unit



DF07703

Defi-Link ADVANCE Control Unit

- Gauges can be controlled from distance by the switch unit with illumination.
- LED indicator to check the wiring for power source is mounted.
- ADVANCE Control Unit is threadably mountable.

Product Specifications

- Power Supply Voltage: 10V~16V DC(For 12V vehicle)
- Current consumption: Maximum value in case 7 gauges are connected +B line 2A(IGN ON) 5mA(IGN OFF) ILM line 800mA
- Applicable number of cylinders: 1·2·3·4·5·6·8

Applicable products	Defi-Link ADVANCE SYSTEM series
Applicable number of cylinders	1·2·3·4·5·6·8

ADVANCE C2 Series IGN OFF

- Blue
- Pink



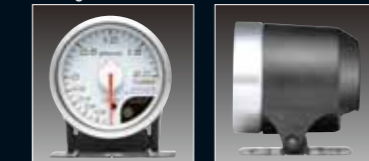
The features of ADVANCE BF

- The gauges illuminates by turning the ignition on.

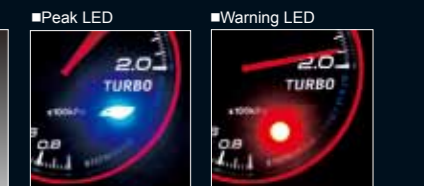


The features of ADVANCE CR and ADVANCE BF

- The mounting back case is 11% lower than the ex-models.
- The glass is flat.



The gauge in the picture is ADVANCE CR.



The gauge in the picture is ADVANCE CR.

※All photographs are composite.



● Main Features

- Interactive communication advanced system is implemented.
- The display is high-brightness and high-definition OLED made by Nippon Seiki.
- By connecting this product to the ADVANCE system, the illumination of ADVANCE BF and CR gauges is controlled automatically.
- Time of 0-100km/h(60MPH) and 0-200km/h(100MPH) can be measured.
- Warm-up mode is equipped to guard engine.
- Opening and ending mode can be selected from 2 variations.
- Self-diagnosis system detects a disconnection of wire, short circuit and communication error, and indicates the error condition.
- Warning value can be set. The display is highlighted and buzzer sounds during warning. (The buzzer can be set ON/OFF.)
- Data obtained during driving (including peak value and warning value) can be stored up to 3 minutes, and the data can be replayed after driving.
- When both fuel pressure sensor and turbo sensor installed, differential pressure can be displayed.
- Display pattern can be selected from 4 display modes. (Maximum 6 items can be displayed all together on one GAUGE display.)
- The display items and the layout can be changed.
- Equipped with sequential indicator with 8 LEDs.
- Equipped with clock and alarm functions.
- Mounting angles are more flexible than conventional products.
- Equipped with odometer and trip meter
- Oil, water, and exhaust temperatures can be displayed from 0 (32).
- Graphic animation plays during idling(Special mode).
- Values can be displayed in SI units(metric) and US units(imperial).



ADVANCE ZD

● Product Specifications

Power supply voltage	10V to 16V DC (for 12V vehicles)	
ADVANCE Control unit	+B line	2A (IGN ON)
	Current consumption	5mA (IGN OFF)
(Maximum value obtained when connecting 7 gauges or ZDs)	ILM line	800mA
Operation temperature range	-20~+60°C, -4~+140°F (Under 80% relative humidity)	
Storage temperature range	-30~+80°C, -22~+176°F (Under 80% relative humidity)	
Display range	Speed	0~400km/h (0~240MPH)
	Tachometer	0~11,000rpm
※ To display OP1 through OP5, the sensor sets for OP1 through OP5 need to be purchased separately.	OP1※#	Oil Pressure 0~1,000kPa (0~145PSI)
	OP2※	Fuel Pressure 0~600kPa (0~87PSI)
	OP3※#	Oil Temperature 0~150°C (32~302°F)
	OP4※#	Water Temperature 0~150°C (32~302°F)
	OP5※	Exhaust temperature 0~1,100°C (32~2,010°F)
	Volt	10~16V
	Clock	12 hours display
Applicable speed pulse	2~4~8~16pulse (mainly for Japanese vehicles) Pulse free setting: 1,274~16,562pulse/km, 2,051~26,665pulse/mile (corresponds to 2~26pulse)	
Applicable number of cylinders	1-2-3-4-5-6-8 (4cycle)	
Weight	400g, 0.9lb (including box, mounting parts, wires, and accessories)	

Parts Name	Parts No.
OP1※#	AD oil press. sensor set PDF08106SS
OP2※	AD fuel press. sensor set PDF08205SS
OP3※#	AD oil temp. sensor set PDF08305SS
OP4※#	AD water temp. sensor set PDF08405SS
OP5※	AD egt temp. sensor set PDF08505SS

Defi-Link Meter ADVANCE ZD Club Sports Package ●DF09703

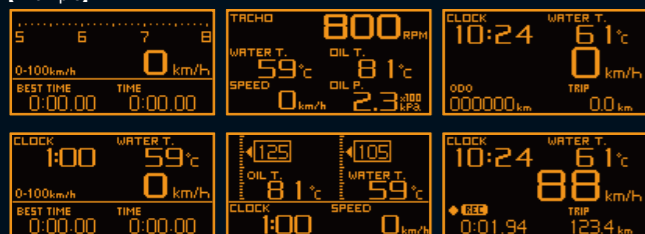


● Main Features

Defi-Link Meter ADVANCE ZD Club Sports Package consists of ADVANCE ZD, ADVANCE Control Unit, oil pressure sensor set, oil temperature sensor set, and water temperature sensor set. Club Sports Package can be purchased at the set pricing.

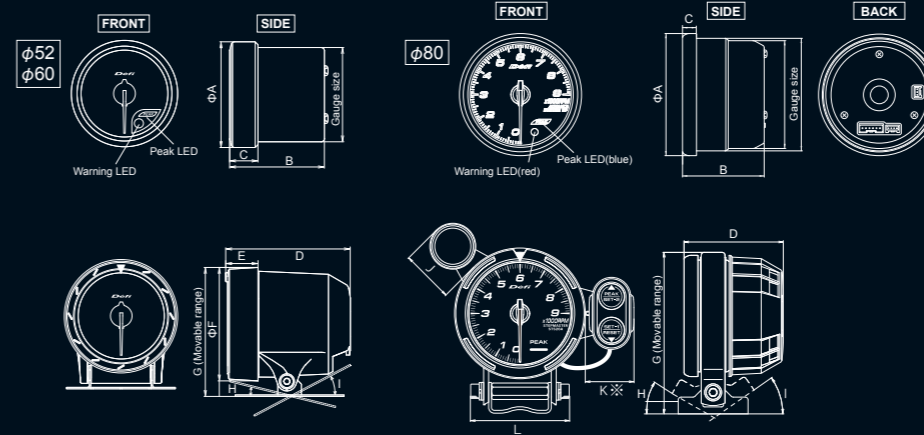
- ❗ To display fuel pressure, exhaust temperature, and differential pressure, sensors and sensor wires are necessary to be purchased separately.
- ❗ If ADVANCE Control Unit is already installed, purchase ADVANCE ZD and sensors and sensor wires separately.

[Example]



❗ The products of Defi-Link ADVANCE SYSTEM cannot be connected with the products of Defi-link System. ⚠ ADVANCE ZD cannot display turbo or intake manifold pressure. ⚠ Defi-Link Meter ADVANCE ZD needs to be used with the ADVANCE control unit.

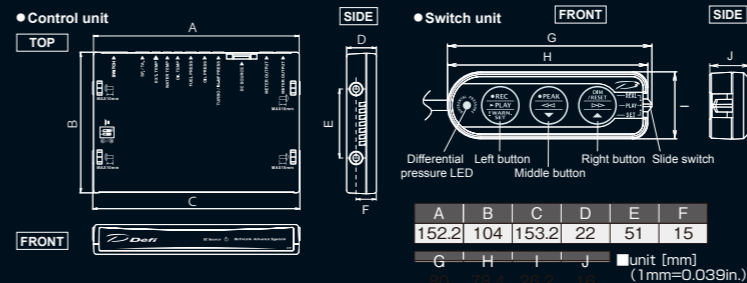
Defi-Link Meter ADVANCE CR / BF / C2 Racetr Gauge



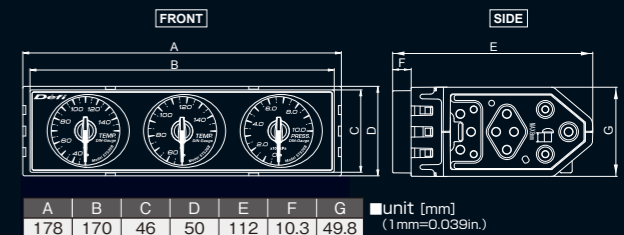
Gauge size	A	B	C	D	E	F	G	H	I	J	K※	L
Φ52	58.3	52.2	15.5	68.6	17.8	62.5	69.6~71.1	15°	28°	—	—	—
Φ60	66.3	52.2	15.5	68.6	17.8	70.5	77.6~79.1	15°	32°	—	—	—
Φ60 (w/o RPB)	66.3	52.2	15.5	66	—	—	75.5~77	18°	32°	—	—	—
Φ80 (w/o RPB)	86.8	58	9.9	71	—	—	112~116	30°	35°	36.9	34.2	69.2

※Only for Φ80 tachometer
■unit [mm] (1mm=0.039in.)

Defi-Link ADVANCE Control Unit



DIN-Guage



Defi Regular Position Bezel Defi Regular Position Bezel

■ ADVANCE CR/BF
For Φ52 ●PDF07812G
For Φ60 ●PDF08607G

■ Racetr Gauge/Defi-Link Meter
For Φ52 ●DF06201
For Φ60 ●DF06901

■ Φ80 Tachometer
For Φ80 ●PDF07105G

▲RPB and Single Visor cannot be mounted together.

Defi-Link ADVANCE 80 Tachometer Indicator



Defi-Link ADVANCE Φ80 Tachometer indicator

●PDF071081
[Applicable products]
ADVANCE Φ80 Tachometer
The exclusive large-sized indicator which lights in green and red enhances the visibility of warnings in addition to the warning LED in the gauge.

Specifications: The power supply and the signals are supplied by the gauge.
Dimensions: 32.2(W)×78.0(D)×41.6(H)mm
The wire is 20cm.

▲The indicator is not stand-alone.

Defi-Link ADVANCE Indicator



Defi-Link ADVANCE Indicator ●DF09601

[Applicable products]
ADVANCE Series Φ52, Φ60
■Small, light weight, and clear brightness.
■Blinks simultaneously with ADVANCE Gauges.

Specifications: The power supply and the signals are supplied by the gauge.
Dimensions: 27.6(W)×55.8(D)×31.5(H)mm
Two wires (1m, 15cm) are included.

▲The indicator is not stand-alone.

Defi Single Meter Visor



Defi Single Meter Visor

For Φ52 ●DF11101 For Φ60 ●DF11201
[Applicable products]
ADVANCE Series Φ52, Φ60
Racer Gauge Φ52, Φ60
Defi-Link Meter Series Φ52, Φ60

Single Meter Visor reduces the outdoor daylight reflected to the gauge and prevents the reflection of the gauge to the windshield at night.

▲Single Visor and RPB cannot be mounted together.

Defi Fitting Kit



Defi Fitting Kit ●DF09501

[Applicable products]
ADVANCE Series Φ52, Φ60
Defi-Link Meter Series Φ52, Φ60
Racer Gauge Φ52

Free fitting for mounting on pillar or steering column.

▲Drilling is necessary for screw clamp.

Racer Gauge Series

Blue Racer Gauge Red Racer Gauge White Racer Gauge

US Model



SI Model



φ80 Tachometer



Main Features

- Stepping Motor "STEP MASTER VS-2" for φ52 and 60, and STEP MASTER STS26A" for φ80 provides smooth operation.
- Ignition ON initiates self-luminescence gauge.
- Illumination using high-brightness LEDs
- Lightning-like Opening / Closing mode
- Self-diagnostics function monitors both sensor disconnection and short-circuiting during startup.
- Full 270° sweep dial provides ultimate visibility.
- A mounting bracket and instrument case is provided with the product.
- The red triangle of the regular position bezel can be used as a warning indicator and others.

- Features for only φ80 tachometer
- Adjustable brightness
 - Dual warnings of light and buzzer
 - Exclusive large-sized indicator
 - Peak memory function
 - Detachable switch unit

Product Specifications

[φ52 & φ60] BOOST, TURBO, PRESS., TEMP., E.G.T., EXT.T., VOLT / φ80 TACHO]

■ Power Supply Voltage: DC10~15V (for 12V Vehicle)

■ Current consumption:

[φ52 & φ60] +B line MAX 0.12A (Dark current 0mA) [φ80] +B line MAX 0.4A (Dark current 0mA)
IGN line MAX 0.12A
ILM line MAX 2mA

■ Operational Temperature Range:
-20 to +60°C, -4 to +140°F (under 80% relative humidity)

■ Storage Temperature Range:
-30 to +80°C, -22 to +176°F (under 80% relative humidity)

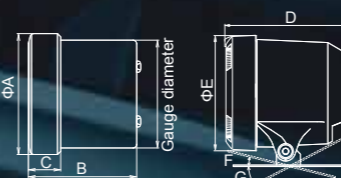
■ Applicable Number of Cylinders(Tacho): 1-2-3-4-5-6-8

■ Display Range:

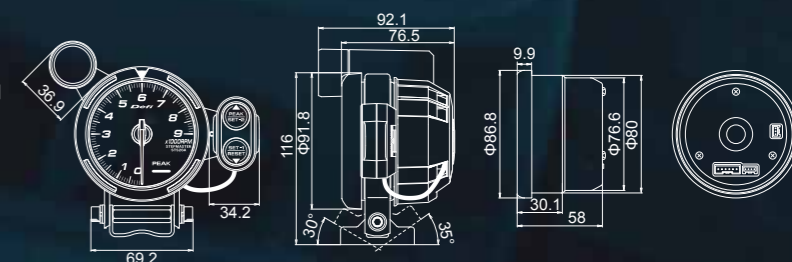
(US Model) (SI Model)
BOOST -30inHg~30PSI TURBO -100kPa~+200kPa
PRESS. 0~140PSI PRESS. 0~1000kPa
TEMP. 100~300°F TEMP. 30~150°C
E.G.T. 400~2,000°F EXT.T. 200~1100°C
VOLT 10~15V VOLT 10~15V
TACHO 0~9,000RPM, 0~11,000RPM

Dimensions

[φ52 & φ60]



[φ80 Tacho]



■ Unit(mm) (1mm=0.039in)

Gauge diameter	A	B	C	D	E	F	G
φ52	58.3	51.8	15.2	67.9	61.9	15°	25°
φ60	66.3	52.2	15.5	70.2	70.5	15°	32°



※Racer Gauge is standalone. Control Unit is unnecessary. ※The illumination color cannot be switched.
※Racer Gauge cannot be linked to the Defi-Link System. ※Commercial sensor attachments of screw size 1/8PT are necessary to install pressure and temperature sensors.

※All photographs are composite.

DIN-Gauge



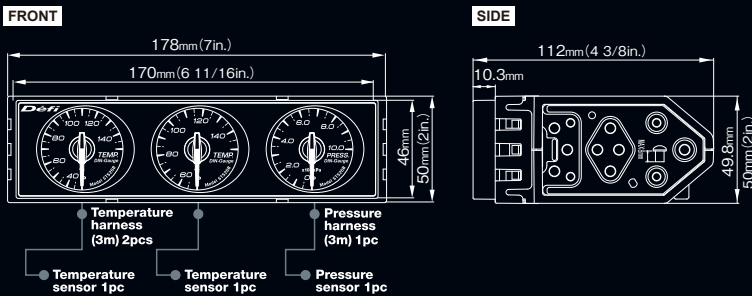
● Main Features

- Three gauges are fitted into one DIN size.
- The front cover of the gauge has flat face glass.
- Opening and Closing mode : The instrument needle pointers of the three gauges move sequentially.
- Three Meters are angled towards the driver for a higher level of visibility.
- Stepping motor
 - Maximum angle 270° controlled by the microcomputer up to 4,600 divisions(0.059°)to provide high precision in the accuracy of information generated.
 - Quick Response
- Bright transparent green gauge dials and a red instrument needle pointer are used in the gauges to increase visibility at night.
- The lights are produced from high intensity LED lamps.

● Product Specifications

- Power Supply Voltage : DC 10V~15V (For 12V vehicles)
- Current Consumption : +B line MAX 0.5A (Dark current 0mA)
 - IGN line MAX 0.5A
 - ILM line MAX 0.2A
- Display Range : TEMP.1 30~150°C
TEMP.2 50~150°C
PRESS 0~1,000kPa
- Sensor Thread Size : TEMP. Sensor 1/8PT
PRESS. Sensor 1/8PT
- Dimensions : 7(W)×4 3/8(D)×2(H)inches , 178(W)×112(D)×50(H)mm
- Gross Weight : 970g, 2 lb. (including DIN-Gauge, harnesses, parts, package)

● Dimensions



■ Right-hand drive

(W): White dial (B): Black dial



● DF05601 (W)



Green illumination at nighttime



● DF05602 (B)



Green illumination at nighttime



● DF05607 (B)



Amber Red illumination at nighttime



● DF05609 (W)



Amber Red illumination at nighttime



● DF05611 (B)



White illumination at nighttime

△DIN-Gauge can not be connected to Defi-Link System.