

// Défi





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



●The features of ADVANCE BF

■The gauges illuminates by

turning the ignition on.

BOOST

OIL T.

φ60► DF10404



OIL P.

WATER T.

φ60► DF10504



FUEL P. φ60► DF10304

EXT. T.

Product Specifications

-30inHg~+29PSI 0~145PSI

0~87PSI



TACHO





Water Temp.

68~248°F

■Power Supply Voltage: 10V~16V DC(For 12V vehicle)

Maximum value in case 7 gauges are connected

■Applicable number of cylinders: 1·2·3·4·5·6·8

Product Specifications

5mA(IGN OFF)

■Current consumption

ILM line 800mA

+B line 2A(IGN ON)

■Power Supply Voltage: Supplied from Defi-Link ADVANCE Control Unit

TACHO 0-11000RPM

80▶ DF11002



φ52► DF06603 φ52► DF06602

 ϕ 52► DF06501 ϕ 52► DF06503 ϕ 52► DF06502 ϕ 60► DF11502

Main Features

LISOM

BOOST inHg/PSI

PRESS. PSI

[Blue Racer Gauge] [White Racer Gauge]



φ52► DF06801 φ52► DF06803 φ52► DF06802 φ60▶ DF11802



Product Specifications

 $[\phi 52 \& \phi 60 \triangleright BOOST, PRESS., TEMP., E.G.T., VOLT / \phi 80 \triangleright TACHO]$

- ■Power Supply Voltage: DC10~15V (for 12V Vehicle)
- [ϕ 52 & ϕ 60] +B line MAX 0.12A (Dark current 0mA) [ϕ 80] +B line MAX 0.4A (Dark current 0mA) IGN line MAX 0.12A IGN line MAX 0.4A ILM line MAX 2mA 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)

φ**80** Tachometer

Features for only Φ80 tachometer

• Adjustable brightness • Dual warnings of light and buzzer • Exclusive large-sized indicator • Peak memory function • Detachable switch unit

Racer Gauge Series Medicage Mile Racer Gauge

• 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.

φ60► DF11602

• 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.



0-9000RPM Φ80▶ DF12001

Φ80▶ DF12101

[Red Racer Gauge]



0-9000RPM Φ80▶ DF12002

0-1100RPM Φ80▶ DF12102



0-9000RPM Φ80► DF12003

0-1100RPM Φ80► DF12103

IGNITION OFF

■Applicable Number of Cylinders(Tacho): 1·2·3·4·5·6·8
■Display Range:
BOOST -30inHg~30PSI
PRESS. 0~140PSI

TEMP. E.G.T. 100~300°F 400~2,000°F

TACHO 0~9.000RPM. 0~11.000RPM

*Racer Gauge is standalone. Control Unit is unnecessary. *Commercial sensor attachments of screw size 1/8PT are necessary to install pressure and temperature sensors. *Racer Gauge cannot be linked to the Defi-Link System and the ADVANCE SYSTEM. *All photographs are composite.

Ф52

Defi-Link Control Unit



Defi-Link ADVANCE Control Unit •DF07703

 Gauges can be controlled from distance by the switch unit with illumination LED indicator to check the wiring for power source is mounted.

Applicable number of cylinders 1.2.3.4.5.6.8

ADVANCE Control Unit is threadably mountable

Applicable products Defi-Link ADVANCE SYSTEM series

[ADVANCE Series connection diagram]



Defi-Link ADVANCE Control Unit One advance control unit can control up to 7 gauges (Purchase separately) *Do not connect more than one gauge of the same variet

The products of Defi-Link ADVANCE SYSTEM cannot be connected with the products of Defi-Link System. Defi-Link Meter USDM ADVANCE BF need to be used with the ADVANCE control unit. Ine products of Deft-Link ADVANCE SYSTEM cannot be connected with the products of Deft-Link System.

Deft-Link Meter USDM ADVANCE BF need to be used with Sensor attachments (1/8PT) are necessary to install oil press, fuel press, oil temp, and water temp sensors.

Do not connect more than one gauge of the same variety.

(Ex. You can NOT connect 2 turbo gauges together.)





Defi-Link Meter ADVANCE ZD ●DF09701

Defi-Link Meter ADVANCE ZD Club Sports Package



■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]

0-100km/h BEST TIME 0:00.00	0:00.00	59°c 81°c	000 0000000 km 0.0 km
0-100km/h BEST TIME	WRTER T. 59°c □ km/h TIME 0:00:00	01.7 4105 01.7 WHITERT, WHITERT, SPECO 1:00 SPECO	10:24 61°c



- 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
- · Equipped with odometer and trip meter
- Oil, water, and exhaust temperatures can be displayed from 0°C (32°F).
- Graphic animation plays during idling(Special mode). ·Values can be displayed in SI units(metric) and US units(imperial)



ADVANCE 7D

Power supply voltage	10V to 16V DC (for 12V vehic		cles)	
ADVANCE Control unit	+B line	2A (IGN ON)		
Current consumption / Maximum value obtained when \		5mA (IGN OFF)		
connecting 7 gauges or ZDs	ILM line	800mA		
Operation temperature range	-20~+60°C, -4~+140°F (Under 80% relative umidity)			
Storage temperature range	-30~+80°C, -22~+176°F (Under 80% relative humidity)			
Display range	Speed		0~400km/h (0~240MPH)	
※To display OP1 through OP5, the sensor sets for OP1 through	Tachometer		0~11,000rpm	
OP5 need to be purchased	OP1**#	Oil Pressure	0~1,000kPa (0~145PSI)	
separately. **ADVANCE CR or ADVANCE	OP2*	Fuel Pressure	0~600kPa (0~87PSI)	
BF gauges are already installed, the sensor sets are not necessary	OP3**#	Oil Temperature	0~150°C (32~302°F)	
to be purchased separately.	OP4**#	Water Temperature	0~150°C (32~302°F)	
#Sensor sets for OP1, 3, and 4 are included in CSP.	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

The products of Defi-Link ADVANCE SYSTEM cannot be connected unit.

Defi-Link Meter ADVANCE ZD needs to be used with the ADVANCE control unit. 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.



- Interactive communication advanced system is implemented.
- •The color can be chosen from blue and pink. *The illumination color cannot be changed
- Three different looks consisted of IGN OFF, IGN ON, and night illumination



















Neo 硬派 RacingSports Defi-Link Meter

- Interactive communication advanced system is implemented.
 The illumination color is green and warm white. The two colors can be switched.
- •The brightness is turned down to make a nostalgic mood.
- •Nippon Seiki's NS logo is printed on the dial face instead of Defi logo.
- It's because the ▲ logo used to be printed on our OEM gauges.

 •The needle pointer is white while the illumination is OFF and red while the illumination is ON. •80mm tachometer is under development and will be released later.





φ52 DF13601

EXT.T.



φ52 DF13701



FUEL P. φ<u>52</u> DF<u>1380</u>1

Series



φ<u>52</u> DF13901

The product of Defi-Link ADVANCE SYSTEM cannot compatible with the product of Defi-Link SYSTEM.

The product of Defi-Link ADVANCE SYSTEM cannot be connected with the product of Defi-Link SYSTEM. It is not

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.

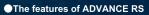
Defi-Link Meter ADVANCE CR and BF, ZD, C2, RS need to be used with the ADVANCE control unit. Do not connect more than one gauge of the same variety. (Ex. You can NOT connect 2 turbo gauges together.)

Sensors are common in ADVANCE system and Defi-Link System except turbo sensor, but sensor wires are not common.

φ52 DF14001

EXT.T.

φ52 DF14101



The night illumination color is switchable between two colors



Defi-Link Meter

TURBO / Max200kPa

●DF07801 ○DF07802

OIL P.

●DF08101 ○DF08102

OIL T.

●DF08301 ○DF08302

ADVANCE SYSTEM

- 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 best. (***) 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.

- The opening mode and ending mode can be selected from two variations designed for ADVANCE CR.
- The illumination at night can be switched between two different colors (white dial: amber red/blue, black dial: white/amber red)
- The outer edge of the glass is illuminated in red in a ring shape at night.
 A regular position bezel is included as standard equipment.

Defi-Link Meter

used with the ADVANCE control unit.

The products of Defi-Link ADVANCE SYSTEM cannot be

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

Do not connect more than one gauge of the same variety.

(Ex. You can NOT connect 2 turbo gauges together.)

connected with the products of Defi-link System.

[ADVANCE Series connection diagram] Defi-Link ADVANCE Control Unit

One advance control unit can control up to 7 gauges. (Purchase separately)

Defi-Link Meter ADVANCE BF

- The opening mode and ending mode can be selected from two variations designed for ADVANCE BF.
- The light-emitting gauge always provides clear visibility with high contrast.
 Brightness can be adjusted by selecting from five levels for daytime and nighttime separately
- (nighttime dimming cancellation function is available).



 $\underline{\mathbb{A}}$ The outer edge of the glass is not illuminated and the change of



TURBO / Max120kPa

IN-MF.P.

●DF10101 ●DF10102 ●DF10103

●The features of ADVANCE BF



The features of

the ex-models.

The glass is flat

ADVANCE CR and ADVANCE BF





OIL T. ●DF10401 ●DF10402 ●DF10403









The gauge in the picture is ADVANCE CR.

Defi-Link Meter ADVANCE CR



TURBO / Max200kPa ●DF08601 ○DF08602

OIL P.

●DF08901 ○DF08902

WATER T.

●DF09201 ○DF09202



TURBO / Max120kPa ●DF08701 ○DF08702

FUEL P.

●DF09001 ○DF09002

EXT.T.

●DF09301 ○DF09302

Amber red



White Dial > ● Black Dial > ○

●DF08801 ○DF08802



OIL T. ●DF09101 ○DF09102

TACHOMETER

●DF09403 ○DF09404



TURBO / Max200kPa

●DF09901 ●DF09902 ●DF09903

OIL P. ●DF10201 ●DF10202

WATER T.

ODF10501 ODF10502 ODF10503





80 TACHOMETER





FUEL P.













TACHOMETER ●DF10701 ●DF10702 ●DF10703







ADVANCE CR White models





WATER T.



Defi-Link ADVANCE Control Unit ●DF07703

- Gauges can be controlled from distance by the switch unit with illumination.

 Product Specifications
- LED indicator to check the wiring for power source is mounted.

 ADVANCE Control Unit is threadably mountable.

Applicable number of cylinders 1.2.3.4.5.6.8

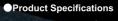
- ■Power Supply Voltage: 10V~16V DC(For 12V vehicle)
- mum value in case 7 gauges are connected +B line 2A(IGN ON)
- 5mA(IGN OFF)
- ILM line 800mA

 ■Applicalbe number of cylinders: 1·2·3·4·5·6·8



●DF10901 ●DF10902 ●DF10903





■Power Supply Voltage: Supplied from Defi-Link ADVANCE Control Unit

■Display Range Intake Manifold Press. Fuel Press.

-100kPa~+200kPa -100kPa~+20kPa 0~600kPa

Exhaust Temp Tachometer (Φ80 only)

ADVANCE BF Blue models

Racer Gauge Series

- \bullet Stepping Motor "STEP MASTER VS-2" for Φ 52 and 60, and STEP MASTER STS26A" for Φ 80 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 othe







TURBO



Φ52▶ DF06504

Φ60► DF11604

Φ60▶ DF11704

Φ60► DF11504

PRESS.



Φ52▶ DF06604

TEMP./温度計



Φ52▶ DF06704



Φ52▶ DF06804



Φ52▶ DF07004



TURBO



0▶ DF11505







Φ60▶ DF11705

Φ52▶ DF06705

EXT.T.

Φ52► DF06805



Φ52► DF07005

ILM line MAX 2mA





Φ52▶ DF06506





Φ52▶ DF06606









Φ52► DF07006

VOLT

White Racer Gauge





Φ60► DF11606

TEMP./温度計





Φ52▶ DF



φ**80 Tachometer**



- Features for only Φ80 tachometer • Adjustable brightness • Dual warnings of light and buzzer • Exclusive large-sized indicator • Peak memory function • Detachable switch unit

Mu Lange



Φ80 ► 0-9000RPM DF12001

Φ80 ► 0-11000RPM DF12101





Φ80 ► 0-9000RPM DF12002

Φ80 ► 0-11000RPM

DF12102

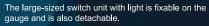
White Kacer Gauge



Φ80 ➤ 0-9000RPM

Φ80▶ 0-11000RPM DF12103







Blue Red White Racer Gauge Racer Gauge

Indicator

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.







SET1 Green

SET2 Red



[ϕ 52 & ϕ 60 • TURBO, PRESS., TEMP., EXT.T., VOLT / ϕ 80 • TACHO] ■Power Supply Voltage: DC10~15V (for 12V Vehicle)

- [ϕ 52 & ϕ 60] +B line MAX 0.12A (Dark current 0mA) [ϕ 80] +B line MAX 0.4A (Dark current 0mA) IGN line MAX 0.12A IGN line MAX 0.4A ILM line MAX 2mA
- ■Operational Temperature Range:
 -20 to +60°C (under 80% relative humidity) ■Storage Temperature Range:
 -30 to +80°C (under 80% relative humidity)

- ■Applicable Number of Cylinders(Tacho): 1·2·3·4·5·6·8
- ■Display Range:
 TURBO -100kPa~+200kPa
 PRESS. 0~1000kPa
- TEMP. 30~150°C EXT.T. 200~1100°C TACHO 0~9.000RPM. 0~11.000RPM

**Racer Gauge is standalone. Control Unit is unnecessary. **Commercial sensor attachments of screw size 1/8PT are necessary to install pressure and temperature sensors. **Racer Gauge cannot be linked to the Defi-Link System and the ADVANCE SYSTEM. **All photographs are composite.

STAND ALONE JDM DIN Gauge

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
- Three Gauges are angled towards the driver (Right-hand driver) for a higher level of visibility.
- Stepping motor

ODF14401

- •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
- 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
- ■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)





ODF14402 Amber Red illumination at nighttime

White illumination at nighttime

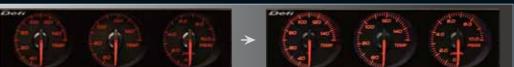




ODF14403 White illumination at nighttime



ODF14404 Amber Red illumination at nighttime



*DIN-Gauge can not be connected to the Defi-Link System and the ADVANCE SYSTEM.

Defi-Link ADVANCE Tacho

ADVANCE

Indicator'

Ф60

Ф60(w/o RPB

Control unit

TOP

FRONT

Defi-Link ADVANCE Control Unit

●PDF07108I Indicator

[Applicable products]
ADVANCE ϕ 80 Tachometer

Defi-Link ADVANCE

Φ80 Tachometer indicator

The exclusive large-sized indicator which lights in green

Specifications: The power supply and the signals are

Dimensions: 32.2(W)×78.0(D)×41.6(H)mm

The wire is 20cm.

and red enhances the visibility of warnings in addition to the warning LED in the gauge.

supplied by the gauge.

⚠ The indicator is not stand-alone.

Example of u

Defi **Fitting Kit Defi-Link ADVANCE Indicator**

●DF09601

[Applicable products] ADVANCE Series φ52, φ60

- ■Small, light weight, and clear brightness.
- ■Blinks simultaneously with ADVANCE Gauges.

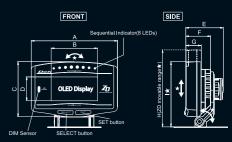
Specifications: The power supply and the signals are

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.

ADVANCE ZD





★Movable range ZD can be moved up and down, and can be tilted front and back, right and left. The movable range is

A | B | C | D E | F | G | H 42 | 27.8 | 17.3 | 86

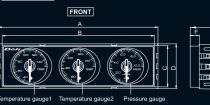
I J K 73 88.2 45.9 unit [mm] (1mm=0.039in.)

DIN-Guage

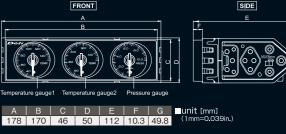
tachometer

BACK

SIDE



| 178 | 170 | 46 | 50 | 112 | 10.3 | 49.8 |



Defi Regular Position Bezel Defi Regular Position Bezel



Defi-Link Meter ADVANCE CR / BF / C2 / RS Racer Gauge

FRONT

φ80

Switch unit

 58.3
 52.2
 15.5
 68.6
 17.8
 62.5
 69.6~71.1
 15°
 28°

 66.3
 52.2
 15.5
 68.6
 17.8
 70.5
 77.6~79.1
 15°
 32°

 66.3
 52.2
 15.5
 66
 —
 —
 75.5~77
 18°
 32°

b80(w/o BPB) 86.8 58 9.9 71 — 112~116 30° 35° 36.9 34.2 69.2

SIDE



FRONT

152.2 104 153.2 22 51 15

G H I J J unit [mm] (1mm=0.039in.)



SIDE





φ80 Tachometer For φ80 ●PDF07105G

 Λ RPB and Single Visor cannot be mounted together.

Defi Single Meter Visor

For ϕ 52 • DF11101 For ϕ 60 • DF11201



Racer Gauge [Applicable products] ADVANCE Series ϕ 52, ϕ 60

Racer Gauge ϕ 52, ϕ 60 Defi-Link Meter Series ϕ 52, ϕ 60 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 ●DF09501







ADVANCE Series ϕ 52, ϕ 60 Defi-Link Meter Series φ52, φ60 Racer Gauge φ52

Free fitting for mounting on pillar or steering column.

⚠ Drilling is necessary for screw cramp.

_ADVANCE

09