AUTOMOTIVE SERVICE TOOLS



TOYO TECH CO.,LTD.

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Compression tester for gasoline engine

G-1C



Measurement can be made by a single person since the tester can be secured in close contact with a measured object by inflating the 14mm rubber at the end of the tester by turning the adjust nut (only when used for the 14mm spark plug). In the case of a vehicle with a plug other than the 14mm spark plug, the tester can be used as a manual pressure contact type by replacing the 14mm rubber with the provided V rubber.

Model	Meterdiameter	Max. scale	Min. scale	Overall length	Accessories	Case	Total weight
G-1C	φ 60 mm	2.5MPa (Approx.25kgf/cm²)	0.1MPa	220 mm	14mm rubber (spare) (2) V rubber (1)	Metal case W 235×D 75×H 50mm	Approx. 870g

☆ Optional adapter

G-1C 18mm diameter V rubber

GU-2C



Measurement can be made by a single person since this tester can be secured in close contact with a measured object by inflating the 14mm rubber at the end of the stem by turning theadjust nut (only when used for the 14mm spark plug). Since the stem can be easily attached and detached by means of the adjust nut, the tester can be used with various vehicle types by fitting either the long stem or short stem depending on the position of a plug hole. In the case of a vehicle with a plug other than the 14mm spark plug, the tester can be used as a manual pressure contact type by replacing the 14mm rubber with the provided V rubber.

GU-3H



The attached hose allows convenience in setting the compression tester. The tester can be used for extensive applications by fitting any of the three provided stems (long, short or curved stem) depending on the position of a plug hole. The use of the optional system separately sold allows the use of this tester for a wider variety of vehicle types.

Model	Meterdiameter	Max. scale	Min. scale	Overall length	Accessories	Case	Total weight
GU-2C	φ60 _{mm}	2.5MPa (Approx.25kgf/cm²)	0.1MPa	970 mm	Long stem 220mm Short stem 99 mm 14mm rubber(Spare) (2) V rubber (2)	Metal case W 290 × D 155 × H 70mm	Approx. 2,300g
GU-3H	ϕ 75mm	2.5MPa (Approx.25kgf/cm²)	0.1MPa			Metal case W 290 × D 155 × H 70mm	Approx. 2,100g

☆ Optional adapter

GU-2C	Special stem: 150)mm、 200mr	n、 250mm、	300mm、	400mm、	500mm	m 18m	m diamet	er V rubb	er
GU-3H	Straight stem 200 18mm diameter V	mm、 300mr rubber	1、400mm、	500mm	Curved	stem 2	200mm、	300mm、	400mm,	500mm

Compression tester for gasoline engine

GU-53C



Measurement can be made by a single person since this compression tester can be secured by screwing the hose adapter into the spark plug hole. Screwing of the hose adapter into the spark plug hole can be performed just by hand requiring no tool. The hose adapter can be connected to and disconnected from the tester main body by means of a coupler quickly and easily. The long hose adapter as long as 400mm allows easy connection even to a deeply set spark plug like the DOHC.

With three types (10mm,12mm,14mm) of hose adapters provided, this tester can be used with most of reciprocating engines from a two-wheeled vehicle to a four-wheeled car.

GU-51C



This tester is an equivalent of GU-53C shown on the left and provided with only one hose adapter for the 14mm spark plug often used for four-wheeled cars.

XPurchase a hose adapter separately sold according to need.

Specifications

Model	Meter diameter	Max. scale	Min. scale	Overall length of tester body	Provided adapter (Overall length)	Accessories	Case	Total weight
GU-53C	φ60 mm	2.5MPa (Approx.25kgf/cm²)	0.1MPa	170 mm	For 10mmplug (400mm) For 12mmplug (400mm) For 14mmplug (400mm)	Spare D-ring for 10、 12、 and 14mm Metal case (one for each) W 290×		Approx. 2,050g
GU-51C	4 00 mm				For 14mmplug (400mm)	Spare O-ring for 14mm (1)	D 155× H 70mm	Approx. 1,750g

☆ Optional adapter

For 18mm spark plug / For 8mm spark plug

For 14mm taper-seal type spark plug (Ford)

[For a special adapter for special spark plug etc., contact us for detailed information.]

GU-6



Many of natural gas fueled cars like CNG cars are subjected to higher compression pressure compared with gasoline cars. This compression tester allows the measurement of higher compression pressure for these vehicles. To enhance the heat resistance required for the measurement of higher compression pressure, heat dissipation performance is improved by the use of heat-dissipating materials and shape on the end part.

Measurement can be made by a single person since this tester can be secured by screwing the hose adapter into the spark plug hole. This tester can be used for various types of plugs by fitting any of the three types (10mm, 12mm, 14mm) of the provided plug adapters.

Specifications

Model	Meter diameter	Max, scale	Min. scale	Overall length of tester body	Provided adapter (Overall length)	Case	Total weight
GU-6	ϕ 60 mm	4 MPa (Approx. 40kg f/cm²)	0.1MPa	370mm	For 10mmplug(65mm) For 12mmplug(65mm) For 14mmplug(65mm)	Metal case W 290×D 155×H 70 mm	Approx. 1,850g

This compression tester allows the measurement of compression by connecting a provided appropriate adapter to the nozzle holder or glow plug of a diesel engine. A set of seven types of adapters is available for applicable car types (engine models), and for nozzle holders or glow plugs. There are also a variety of optional adapters available. (See the attached table.)

Common specifications

Meter diameter	Max. scale	Min. scale	Tester overall length	Accessories
ϕ 75 mm	7MPa (Approx. 70kg f/cm²)	0.2MPa	For use with hose of 610mm	Fiber packing 13mm dia. (For connecting a hose and tester) Fiber packing 14mm dia. (For connecting an adapter) 5 for each

For medium-size car (For nozzle holder) DS-9



Provided adapter

	•	
Adapter model	Manufacturer	Engine model
I - 10	CHITH	4HF1 ,4HG1 ,4BE1
I - 13		4EE1,4JG2,4FC1,4FG1,4EF1,4EC
T - 5	Toyota	1C,2C,3C,L,2L,3L,5L,1KD,1KZ
F - 11	Mitsubishi	4D30,4D31,4D32,4D33,4D34,4D35,4D36
F - 15	MITESUDISIII	4M50,4M51
M - 2	Mazda	RF.R2.S2

Accessories : L-Type joint

Specifications : Metal case W 340×D 215×H 55mm

Total weight Approx.3,950g

DL-9 For large-size car (For nozzle holder)



Provided adapter

Adapter model	Manufacturer	Engine model
I - 5	T	6WA1,6WG1,4BA1,4BC1,4BD1,6BA1,6BD1
I - 15	Isuzu	8PD1,10PD1,8PE1,10PE1
N - 8	Nissan	FD42,FD46,BD30
H - 13	Hino	S05C,S05D,J05C,J05D,J07C,J08C
H - 15		P09C,P11C,K13C
F - 13	Mitsubishi	6M70,8M20,8M21,8M22
F - 14	WITSUDISTI	6M60,6M61

■ Accessories : L-Type joint

■ Specifications : Metal case W 365×D 260×H 55mm

Total weight Approx.5,800g

DJ-9H For glow plug



Provided adapter

Adapter model	Manufacturer	Engine model
G I - 6	Isuzu	6HH1,6HL1,6HK1,4HJ1,4HL1
G T - 3	Tavata	1C,2C,3C,B,2B,3B,H,2H,D,2D,2J,1PZ,1HZ,1HD
G T - 6	Toyota	1ND
G N - 8	Nissan	SD20
G N - 10	NISSan	ZD
G M - 5	Mazda	RF,S2,R2,VS,XA,HA,ZB
GH-1	Hino	J05C,J05D,J07C,J08C,S05C,S05D

■ Specifications : Metal case W 340×D 215×H 55mm Total weight Approx.3,050g

DF-5 For agricultural machine (For nozzle holder)



Provided adapter

Adapter model	Manufacturer
Y - 1	Yanmar
KI - 1	Iseki
KU-1	Kubota
M F - 5	Mitsubishi

■ Accessories : L-Type joint (L-1)

■ Specifications : Metal case W 340×D 215×H 55mm

Total weight Approx. 3, 550g

DF-6 For agricultural machine (For nozzle holder)



Provided adapter

Adapter model	Manufacturer	Engine model
Y - 1	Yanmar	2HS,NF,2TR,2T,3T,4T
Y-2	Yanmar	3TN63 ∼ 3TN72
Y-3	Yanmar	3TNB80RN,3TN84RA,3TN84RB
Y-4	Yanmar	NFD150,NFD170,NF19,3T93,4T93
Y-5	Yanmar	NFAD50,NFAD5,NFAD6,NFD120,NFAD7,NFAD8
Y-6	Yanmar	L35,L40,L50,L60,L75,L90
Y-7	Yanmar	3TN75,3TNB82U,3TNB84U

■ Specifications : Metal case W 340×D 215×H 55mm Total weight Approx. 3, 850g

DK-7.DK-4 For industrial machine and construction machine (For nozzle holder)



Specifications of provided adapter

	Adapter model	Manufacturer	Туре	Case	Total weight
	K-1	Cummins	855		
	K-2	Komatsu	94-1		
	K-3	Cummins	743	Metal case W 365 ×	Approx.
DK-7	K-4		105-1,105-2,105-3	D 260×	6,500 g
	K-5		120-11,130-1,	H 55 mm	
	K-6	Komatsu	92-1,		
	K-7		155-4		
	K-8	UK Inter		Metal case	200
DK-4	K-9	Komatsu	2D92,4D92	W 290×	Approx.
DK-4	K-10	Germany Inter		D 155 ×	3,600 g
	K-11	Perkins		H 70 mm	

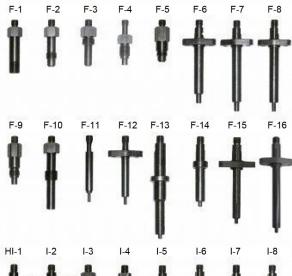
※ The photo shows Model DK-7.

Table of adapters

■ L-type adapter

The L-type adapter is used to connect between an adapter and tester when it is difficult to install a tester because the engine room is small or for any other reason.

For nozzle hose



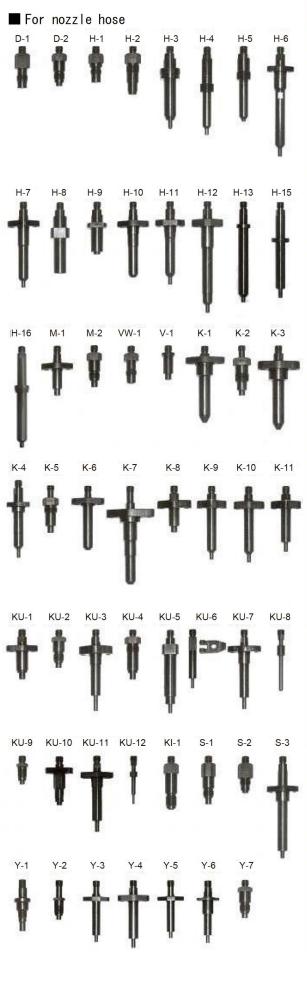






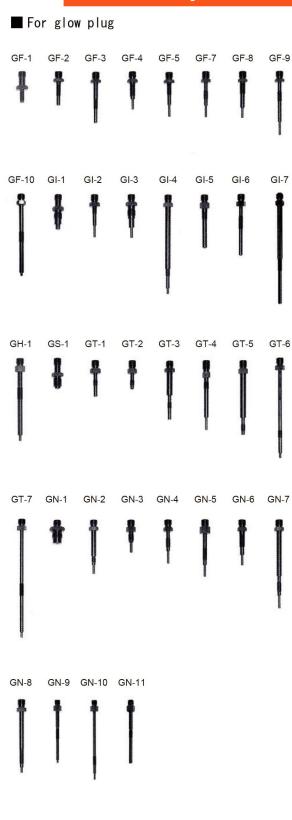
T-8	N-1	N-2	N-3	N-4	N-5	N-6	N-7	
+	Û	#	Ŷ	+	1	#	‡	
N-8	N-9	N-10						
Î	1	1						

Adapter model	Engine model	Manufacturer				
F-1	KE-35, KE-36, KE-41, KE-63					
F-2	6DB1, 6DS1, 6DS10A	-				
F-3	6D11, 6DB10C, 6DS50C, 6DS70C	-				
F-4	4DQ, 4DR5, 4DR51	-				
F-5	8DC2	+				
F-6	6D14, 8DC4, 8DC6, 8DC20, 8DC60C	+				
F-7	8DC70, 8DC8	-				
15 1		Mitsubishi				
F-8	6D16, 6D20, 6D22, 6D24, 8DC7, 8DC8	MILSUDISTII				
F-9	CDD (L. C					
F-10	6DB (low-fioor type)	-				
F-11	4D30, 4D31, 4D32, 4D33, 4D34, 4D35, 4D36					
F-12	4D31C					
F-13	6M70, 6D40, 8M20, 8M21, 8M22					
F-14	6D15, 6D16, 6D17, 6M60, 6M61					
F-15	4M50, 4M51					
F-16	4M50 (Common Rail)					
HI-1	DA120, DA220, DA640, DH100, E110					
I-2	C330, D400, D500, 6AB1					
I-3	C221, C240, 2AB1					
I-4	E120, 6RA1					
I-5	4BA1, 4BC1, 4BD1, 6BA1, 6BB1, 6BD1, 6DB11, 6WA1, 6WG1					
I-6	D920, 6B-1					
I-7	8PA1, 8PB1, 8PC1N, 10PA1, 10PB1, 12PA1					
I-8	8MA1],				
I-9	4EC1, 4FB1, 4FC1, 4FD1	Isuzu				
I-10	4BE1, 4HF1, 4HG1	1				
I-11	4HF1	1				
I-12	6BG1, 6BF1	1				
I-13	4EF1, 4FC1, 4FG1, 4JG2, 4EE1	1				
I-14	4HF1, 4HG1	1				
I-15	8PD1, 8PE1, 10PD1, 10PE1					
	C170					
IN-1	SD22, SD23, SD25, SD33	Nissan				
TH-1	2D					
T-1		1				
T-2	B, J, 2J					
T-3	1W (Flange type)	Toyota				
T-4	1Z, 11B, 12HT, 13B, 14B, 15B					
	1C, 1KD, 1KZ, 2L, 3L, 4B, 5L	•				
T-5	WL	Mazda				
1.0	4D55, 4D56, 4D65, 4M40	Mitsubishi				
T-6	1W (Hook type)	WIICSGDISTII				
T-7	B, 2B, 3B, 2H, 1HD-T, 1HZ, 1PZ	Tayata				
T-8	2Z	Toyota				
N-1	UD UD					
N-2	PD8T, PE10T, ND6					
N-3	ED6, ED30, ED33, CD17, CD20, RD28					
N-4	SD20	Nissan				
144	FD6, FD33, RE10					
N-5	4BB1	leuzu				
N.C		Isuzu				
N-6	CY turbo	V.W				
N-7	TD27, TD42, QD32					
N-8	BD30, FD42, FD46	Nissan				
N-9	NF6, PF6, PN6, RE8, RF8, RG8					
N-10	10 FE6B, FE6E					



Adapter model	Engine model	Manufacturer					
D-1		Daihatsu					
D-2	CL-10, CL-50	Damacsa					
H-1	DM100	Hino					
H-2	EC100, DQ100	0.00000000					
15.16-765	10DC60P	Mitsubishi					
H-3	EA100						
H-4	ED100						
H-5	EF100, EG100, EH100, EH500						
H-6	EF300, EF500, EF700, EK100						
H-7 H-8	EH700, EM100, EP100T, H06CT, H07C, W04CT, W04D, W06D, W06E EB100, EB300, DK10, DK20						
H-9	DS50, DS60, DS70, DS80, DS120	Hino					
H-10	EL100	Hillo					
H-11	EP100						
H-12	EF550P						
H-13	J05C, J05D, J07C, J08C, S05C, S05D						
H-15	K13C, P09C, P11C						
H-16	E13C						
M-1	XA, HA, ZB, XC	Mazda					
M-2	RF, R2, S2	IviaZud					
VW-1		V. W.					
V-1	Escale.	Volvo					
K-1	855	Cummins					
K-2	94-1	Komatsu					
K-3 K-4	743	Cummins					
K-5	105-1, 105-2, 105-3 120-11, 130-1	1					
K-6	92-1	Komatsu					
K-7	155-4						
K-8	W,V	UK Inter					
K-9	2D92, 4D92 לידב	Komatsu					
K-10		Germany Inter					
K-11		Perkins					
KU-1	ER80, ER90, ER100, KND3, KND4, KND45						
KU-2	E50, E55, E60, E70, ZB400C						
KU-3	D3000, V4000, V4300	Kubota					
KU-4	D1900, DS1500	Mitsui Germany					
KU-5 KU-6	E750, E900, E950, E1000	William Germany					
	E1100, E1150, E1250, KND2800, KND3200						
KU-7	4BC2	Isuzu					
KU-8	D1302DI, D1402DI, V1512DI						
KU-9	Z430, D600						
KU-10		Kubota					
KU-11							
KU-12							
KI-1		Kawasaki Iseki					
S-1	SD460, SD4003						
S-2	SD3203, SE5306						
S-3	SF1000T, SE8300						
Y-1 Y-2	2HS, NF, 2TR, 2T, 3T, 4T 3TN63 ~ 3TN72						
Y-2 Y-3	31N03 ~ 31N12 3TNB80RN, 3TN84RA, 3TN84RB						
Y-4	NFD150, NFD170, NF19, 3T93, 4T93	Yanmmar					
Y-5	NFAD50, NFAD5, NFAD6, NFD120, NFAD7, NFAD8						
Y-6	L35, L40, L50, L60, L75, L90						
Y-7	3TN75, 3TNB82U, 3TNB84U						
	,						

Adapter



GD-1 GM-4 GM-5 GK-1 KI-2G KU-13 KU-14

model	Engine model	Manufacturer	
GF-1	4DG, 6DB1		
GF-2	6DB, 6DS, 6DC		
GF-3	6DC2, 6DC20, 8DC2, 8DC20, 8DC6, 10DC6, 12DC2	Mitsubishi	
GF-4	4DR1, 4DR5, 4DR51, 6DR5		
01 1	6DB1, 6DB10A, 6DS1, 6DS10A, 6DS3, 6DS5, 6DS7		
GF-5	XC, ZC	Mazda	
0. 0	4JG2	Isuzu	
GF-7	6D10, 6D11		
GF-8	4D30, 4D31		
GF-9	4DR6, 4D32, 4D33, 4D35, 4D34	Mitsubishi	
GF-10	6M60		
GI-1	KE31, KE36		
GI-1	C220		
GI-2	C190, C221, C223, C240, C330, D500, 4BA1		
GI-Z	4BC1, 4EC1, 4FE1, 4FB1, 4FC1, 4FD1, 4FG1		
GI-3	D400, DA120, DA640, DH100, E110		
GI-4	C190, C221, C223, C240, C330, D500, 4BA1		
GI-4	4BC1, 4EC1, 4FE1, 4FB1, 4FC1, 4FD1, 4FG1	Isuzu	
GL 5	4BB1, 4BC2, 4BD1, 4BE1, 4BG1, 4BJ1-2, 4FE1, 4HE1, 4HF1		
GI-5	4HJ1, 4JA1, 4JB1, 6BB1, 6BD1, 6BF1, 6BG1, 6HE1, 6HH1		
GI-6	4HJ1, 4HL1, 6HK1, 6HL1, 6HH1		
GI-7	4JJ1, 4JX1		
GH-1	J05C, J05D, J07C, J08C, S05C, S05D, N04C		
OII I	4M50, 4M51	Hino	
GS-1		Mitsubishi	
GT-1	1C, 2C, 2B, 3B, 2H, 2D, 2J, 1PZ, 1HZ, 1HD	Toyota	
	CL10, CL30, CL50, CL70, DG, DL, DL50	Daihatsu	
GT-2	L, 2L, 2L-T, 3L, 1N	Toyota	
GT-3	1C, 2C, 2B, 3B, 2H, 2D, 2J, 1PZ, 1HZ, 1HD, 3C, 4B, 1KZ	- "	
OT 4	CL10, CL30, CL50, CL70, DG, DL, DL50	Daihatsu	
GT-4 GT-5	1W		
G1-5			
	L, 2L, 2L-T, 3L, 1N, 5L	Toyota	
GT-6	1ND	Toyota	
GT-6 GT-7		Toyota	
GT-6	1ND 2KD	Toyota Nissan	
GT-6 GT-7	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T	Nissan	
GT-6 GT-7 GN-1	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200	Nissan Kubota	
GT-6 GT-7 GN-1	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28	Nissan Kubota Nissan	
GT-6 GT-7 GN-1 GN-2 GN-3	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR	Nissan Kubota	
GT-6 GT-7 GN-1 GN-2 GN-3	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17	Nissan Kubota Nissan	
GT-6 GT-7 GN-1 GN-2 GN-3	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR	Nissan Kubota Nissan V .W	
GT-6 GT-7 GN-1 GN-2 GN-3	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25	Nissan Kubota Nissan V .W	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56	Nissan Kubota Nissan V .W	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6	Nissan Kubota Nissan V .W Nissan Mitsubishi	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17	Nissan Kubota Nissan V .W Nissan Mitsubishi	
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GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40 YD22DD	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan Mitsubishi Nissan Mitsubishi	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7 GN-8	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40 YD22DD 4M41 ZD30DD YD25	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan Mitsubishi Nissan Mitsubishi Nissan	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7 GN-8	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40 YD22DD 4M41 ZD30DD YD25 1C, 2C, 2B, 3B, 2H, 2D, 2J, 1PZ, 1HZ, 1HD, 1KZ, 4B, 3C	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan Mitsubishi Nissan Mitsubishi Nissan Toyota	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7 GN-8	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40 YD22DD 4M41 ZD30DD YD25 1C, 2C, 2B, 3B, 2H, 2D, 2J, 1PZ, 1HZ, 1HD, 1KZ, 4B, 3C CL10, CL30, CL50, CL70, DG, DL, DL50	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan Mitsubishi Nissan Mitsubishi Nissan	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7 GN-8 GN-9 GN-10 GN-11	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40 YD22DD 4M41 ZD30DD YD25 1C, 2C, 2B, 3B, 2H, 2D, 2J, 1PZ, 1HZ, 1HD, 1KZ, 4B, 3C CL10, CL30, CL50, CL70, DG, DL, DL50 DK10, DK20, DM100, DQ100, DS50, DS60, DS70, DS140	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan Mitsubishi Nissan Mitsubishi Nissan Toyota	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7 GN-8 GN-9 GN-10 GN-11 GD-1	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40 YD22DD 4M41 ZD30DD YD25 1C, 2C, 2B, 3B, 2H, 2D, 2J, 1PZ, 1HZ, 1HD, 1KZ, 4B, 3C CL10, CL30, CL50, CL70, DG, DL, DL50 DK10, DK20, DM100, DQ100, DS50, DS60, DS70, DS140 EB100, EB200, EB300, EB400, EC100, EH100, EH300	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan Mitsubishi Nissan Mitsubishi Toyota Daihatsu	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7 GN-8 GN-9 GN-10 GN-11 GD-1	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40 YD22DD 4M41 ZD30DD YD25 1C, 2C, 2B, 3B, 2H, 2D, 2J, 1PZ, 1HZ, 1HD, 1KZ, 4B, 3C CL10, CL30, CL50, CL70, DG, DL, DL50 DK10, DK20, DM100, DQ100, DS50, DS60, DS70, DS140	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan Mitsubishi Nissan Toyota Daihatsu Hino Mazda	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7 GN-8 GN-9 GN-10 GN-11 GD-1 GM-4 GM-5 GK-1	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40 YD22DD 4M41 ZD30DD YD25 1C, 2C, 2B, 3B, 2H, 2D, 2J, 1PZ, 1HZ, 1HD, 1KZ, 4B, 3C CL10, CL30, CL50, CL70, DG, DL, DL50 DK10, DK20, DM100, DQ100, DS50, DS60, DS70, DS140 EB100, EB200, EB300, EB400, EC100, EH100, EH300	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan Mitsubishi Nissan Toyota Daihatsu Hino Mazda Komatsu	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7 GN-8 GN-9 GN-10 GN-11 GD-1 GM-4 GM-5 GK-1 KI-2G	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40 YD22DD 4M41 ZD30DD YD25 1C, 2C, 2B, 3B, 2H, 2D, 2J, 1PZ, 1HZ, 1HD, 1KZ, 4B, 3C CL10, CL30, CL50, CL70, DG, DL, DL50 DK10, DK20, DM100, DQ100, DS50, DS60, DS70, DS140 EB100, EB200, EB300, EB400, EC100, EH100, EH300 RF, S2, R2, VS, XA, HA, ZB, WL	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan Mitsubishi Nissan Toyota Daihatsu Hino Mazda	
GT-6 GT-7 GN-1 GN-2 GN-3 GN-4 GN-5 GN-6 GN-7 GN-8 GN-9 GN-10 GN-11 GD-1 GM-4 GM-5 GK-1	1ND 2KD SD20, SD22, SD23, SD25, SD33, SD33T V2203, V1200 LD20, LD28 CK, CR CD17 CD17, TD23, TD27, TD42, QD32, TD25 4D55, 4D56 ED30, ED33, ED35, ED6 CD17 SD20, SD22, SD23, SD25, SD33, CD20, RD28, LD20, TD23 4DQ, 4DQ50, 4D36, 4D55, 4D56, 4D68, 4M30, 4M40 YD22DD 4M41 ZD30DD YD25 1C, 2C, 2B, 3B, 2H, 2D, 2J, 1PZ, 1HZ, 1HD, 1KZ, 4B, 3C CL10, CL30, CL50, CL70, DG, DL, DL50 DK10, DK20, DM100, DQ100, DS50, DS60, DS70, DS140 EB100, EB200, EB300, EB400, EC100, EH100, EH300	Nissan Kubota Nissan V .W Nissan Mitsubishi Nissan Mitsubishi Nissan Toyota Daihatsu Hino Mazda Komatsu	

Vacuum tester

VP-3H Handy vacuum pump



The handy vacuum pump allows generating vacuum pressure by manual operation.

Since the handy vacuum pump allows pressure reduction as desired, it is indispensable for maintaining a device operated by vacuum pressure

Meter diameter	Max.scale	Min.scale	Depressurization capacity	Accessories	Total weight
ϕ 50mm	-100kPa (Approx. 75cmHg)	2kPa	Approx80KPa (Approx. 60cmHg)	Hose (500mm)	Approx. 800g

VG-7B Vacuum tester (With amplitude adjust function)



This vacuum tester is used for identifying the cause of engine failure by measuring the negative pressure in the intake manifold of a qasoline engine car.

Being provided with the amplitude adjust function, the shaking width of the indicator can be adjusted according to need when the indicator shakes so sharply as to make reading difficult.

	Meter ameter	Max.scale	Min.scale	Overall length	Accessories	Case	Total weight
#	5 50mm	-100kPa (Approx. 75cmHg)	5kPa	1,130mm	Adapter No4 (PT1/8)	Metal case W 265 × D 125 × H 70mm	Approx. 1,300g

VG-8 Vacuum tester (Precision class)



This vacuum tester is used for identifying the cause of engine failure by measuring the negative pressure in the intake manifold of a gasoline engine car.

The use of large-sized negative pressure gauge with smaller minimum scale enables minute adjustments

Meter diameter	Max.scale	Min.scale	Overall length	Accessories	Case	Total weight
φ 100mm	-100kPa (Approx.75cmHg)	1kPa	1,670mm	T-type hose connector Straight-type hose connecter Hose (100mm)	Metal case W 290 × D 155 × H 70mm	

Vacuum tester

VF-3B Vacuum fuel pump tester (With amplitude adjust function)



This vacuum fuel pump tester is provided with two functions of both a vacuum tester and a fuel pump tester.

Since the tester is provided with amplitude adjust function, the shaking width of the indicator can be adjusted when indicator shakes so sharply in vacuum testing. Measurement is allowed up to 50kPa (approx. $0.5\text{kgf}/\text{cm}^2$) for fuel pump testing.

Meter diameter	Max.scale	Min. scale	Overall length	Accessories	Case	Total weight
φ 60mm	Negative pressure: -100KPa (Approx. 75 cmHg) Positive pressure: 50KPa (Approx. 0.5kgf/cmi)	5kPa	1,600mm	T-type rubber adapter Straight-type rubber adapter Straight-type hose connector Hose (100mm) Adapter No.0 (PT3/8) No.1 (PT1/8) No.2 (M12 × 1.5) No.5 (M8 × 1.25) No.7 (PT1/4)	Metal case W 265 × D 125 × H 70mm	Approx. 1,750g

VT-4B Four gauge vacuum tester (With amplitude adjust function)



The four gauge vacuum tester allows the measurement of up to four systems at the same time, and makes it easy to make measurement and balance adjustment of a multi-cylinder engine. Being provided with an adapter for a two-wheeled vehicle. this tester is indispensable for maintaining a two-wheeled vehicle. Since each tester can be used separately on its own, it can be used for extensive applications ranging from a single cylinder engine to four cylinder engine. The amplitude adjust function allows the adjustment of the shaking width of the indicator even when the indicator shakes so sharply.

Meter diameter	I May scale	Min. scale	Overall length	Accessories	Case	Total weight
ϕ 60mm	Negative pressure: -100KPa (Approx. 75cmHg)	5kPa	1,090mm	Honda M5 × 0.8 Suzuki M5 × 0.75 Hose connector Hose (100mm) (4 for each)	Metal case W 335 × D 225 × H 55mm	2,900g

☆ Optional adapter
Suzuki, Yamaha M6×1.0

Vacuum tester

TB-3-1·TB-3-2

Compound gauge



This compound gauge allows the continuous measurements of pressure ranging from positive pressure to negative pressure, thereby enabling the measurement of vacuum pressure and boost pressure of an engine with a supercharger.

Since the use of the provided pump bulb allows the manual application of pressure as desired, this gauge allows testing and making adjustment of a device operated at positive pressure with ease. Two types of gauges for the measurement of positive pressure are available in 100kPa (approx.1kgf/cm²) and 200kPa (approx.2kgf/cm²) types.

	Meter diameter	Max. scale	Min. scale	Pressurization capacity	Overall length	Accessories	Case	Total weight
TB-3-1		Negative pressure: -100KPa (Approx. 75cmHg) Positive pressure: 100KPa (Approx. 1kgf/cm²)	5kPa	100kPa	2.170mm		Metal case W 290 × D 155 ×	Approx.
ГВ-3-2	•	Negative pressure: -100KPa (Approx. 75cmHg) Positive pressure: 200KPa (Approx. 2kgf/cft)	10kPa	150kPa	2,17011111	Hose (100mm) Pump bulb	H 70mm	1,700g

※ The photo shows Model TB−3−1

DV-10 Vacuum tester for diesel engine



This vacuum tester is used for measuring the vacuum pressure of a diesel engine and identifying the cause of an engine failure.

The tester is connected between an engine and governor hose of an injection pump by means of the provided three-way joint.

Meter diameter	Max. scale	Min. scale	Accessories	Case	Total weight
φ 75mm	Negative pressure: -10KPa (Approx. 7.5cmHg)	0.2kPa	Hose 1,000mm Three-wey joint	Metal case W 290 × D 155 × H 70mm	Approx. 1,650g

Adapter for vacuum tester

No 0	No 1	No 2	No 3	No 4	No 5	No 7	No 8	No 9
PT3/8	PT1/8	M12×1.5	M10×1.25	PT1/8	M8×1.25	PT1/4	M6×1.0	M12×1.25
0			8 11111	4 *************************************	5 · · · · · · · · · · · · · · · · · · ·	7	8	

Radiator cap tester

RC-3B Radiator cap tester



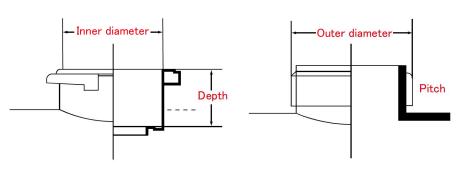
By applying pressure with a manual pump, this radiator cap tester allows an easy OK / NG assessment of a pressure valve of a radiator cap and checking for leakage of the cooling system.

The tester can also be used for identifying a leakage area by visual inspection.

- O Filler neck Type Lock type (Hook type) Inner diameter 41mm Depth 19.5mm
- O Applicable vehicle type for reference Japanese medium and small-size truck Foreign car Former Japanese small-size car

Meter diameter	Max. scale	Min. scale	Pressurization capacity	Accessories	Total weight
φ 50mm	200kPa	10kPa	l ZUUKPa	Hose adapter Tubular adapter	Approx. 1,350g

Adapter for radiator cap tester



For filler neck of current vehicle (hook-type)

For filler neck of current vehicle (screw-type)

■ Note ■

The information on the applicable vehicle types mentioned below are given for reference purposes.

There may be cases that the specifications do not conform to those of applicable vehicles. So, please check the type and dimensions of the filler neck.

RC-3BL

Adapter for large-size car







OFiller neck type
Lock type (Hook type)
Inner diameter 50mm Depth 27mm
Inner diameter 53mm Depth 18mm
OApplicable vehicle type for reference
Large−size car (Truck, bus, etc.)
OTotal weight: Approx. 920g

RC-3BS

Lock type (Hook type) adapter



O Filler neck type
Lock type (Hook type)
Inner diameter 31mm Depth 15.7mm
O Applicable vehicle type for reference
Japanese small-size car
O Total weight: Approx. 480g

RC-4BS

Lock type (Hook type) adapter



OFiller neck type
Lock type (Hook type)
Inner diameter 31mm Depth 9.5mm
OApplicable vehicle type for reference
Japanese small-size car
OTotal weight: Approx. 445g

Radiator cap tester

Screw-type adapter

RC-3BTC

- O Filler neck type Screw-type O-ring seal type Outer diameter 34mm, Pitch 3.0mm
- O Applicable vehicle type for reference Celica

HiAce PRIUS

O Total weight: Approx. 390g





RC-3BMZ

- O Filler neck type Screw-type O-ring seal type Outer diameter 48.5mm, Pitch 2.5mm
- O Applicable vehicle type for reference Axela Volvo
- O Total weight: Approx. 290g



RC-3BN

- O Filler neck type Screw-type Flat packing seal type Outer diameter 48mm, Pitch 9 threads
- O Applicable vehicle type for reference Mercedes-Benz Volkswagen
- Audi O Total weight: Approx. 250g





RC-3BP

- O Filler neck type Screw-type O-ring seal type Outer diameter 56.6mm, Pitch 3.0mm
- O Applicable vehicle type for reference Volkswagen Audi
- O Total weight: Approx. 480g





RC-3BW

- O Filler neck type Screw-type Flat packing seal type Outer diameter 51mm, Pitch 3.0mm
- O Applicable vehicle type for reference
- O Total weight: Approx. 610g





RC-3BW1

- O Filler neck type Screw-type O-ring and flat packing seal type Outer diameter 52mm, Pitch 4.0mm
- O Applicable vehicle type for reference **BMW** Bentley
- OTotal weight: Approx. 640g





RC-3BW2

- O Filler neck type Screw-type O-ring seal type Outer diameter 51.5mm, Pitch 3.0mm
- O Applicable vehicle type for reference BMW
- OTotal weight: Approx. 330g





RC-3BO

- O Filler neck type Screw-type Flat packing seal type Outer diameter 51mm, Pitch 3.0mm
- O Applicable vehicle type for reference Opel
 - Jaguar
- O Total weight: Approx. 330g



RC-3BC

- O Filler neck type Screw-type Flat packing seal type Outer diameter 52mm, Pitch 3.0mm
- O Applicable vehicle type for reference Rover Ford
- O Total weight: Approx. 260g





Radiator cap tester

Screw-type adapter

RC-3BFG

- O Filler neck type Screw-type Flat packing seal type Outer diameter 45mm, Pitch 3.0mm
- O Applicable vehicle type for reference Fiat, Lancia Alfa Romeo

Peugeot, Renault

- Volvo, Saab
- O Total weight: Approx. 430g





RC-3BGM

- O Filler neck type Screw-type Flat packing seal type Outer diameter 51.5mm, Pitch 2.5mm
- O Applicable vehicle type for reference

Toyota (Cavalier)

O Total weight: Approx. 240g





RC-3BMB

- O Filler neck type Screw-type O-ring seal type Outer diameter 62.5mm, Pitch 4.0mm
- O Applicable vehicle type for reference Mercedes-Benz
- O Total weight: Approx. 440g





RC-3BJG

- O Filler neck type Screw-type O-ring seal type Outer diameter 52mm, Pitch 3.0mm
- O Applicable vehicle type for reference Jaguar
- O Total weight: Approx. 380g





RC-3BRV

- O Filler neck type Screw-type O-ring seal type Outer diameter 52mm, Pitch 4.0mm
- O Applicable vehicle type for reference Rover
- O Total weight: Approx. 370g





RC-3BVW

- O Filler neck type Screw-type O-ring seal type Outer diameter 63mm, Pitch 3.0mm
- O Applicable vehicle type for reference Volkswagen Audi
- O Total weight: Approx. 570g





RC-3BFT

- O Filler neck type Screw-type O-ring seal type Outer diameter 45mm, Pitch 3.0mm
- O Applicable vehicle type for reference

Alfa Romeo Lancia

O Total weight: Approx. 280g





RC-3BPG

- O Filler neck type Screw-type O-ring seal type Outer diameter 45mm, Pitch 3.0mm
- O Applicable vehicle type for reference
- O Total weight: Approx. 270g





RC-3BAR

Alfa Romeo

- O Filler neck type Screw-type O-ring seal type Outer diameter 51.5mm, Pitch 2.5mm O Applicable vehicle type for reference
- O Total weight: Approx. 330g





Measuring instruments of fuel pressure

PG-10D

Fuel pressure indicator (for Japanese car)



Meter diameter	Max. scale	Min. scale	Overall length	Case	Total weight
φ 75mm	1,000kPa (Approx.1 0 kgf/cm ²)	10kPa	700mm	Metal case W 290 × D 155 × H 70mm	Approx. 2,100g

This is a tester for measuring the fuel pressure of computerized fuel injection equipment.

The tester is provided with adapters for Japanese cars.

**The tester also allows the measurement of fuel pressure of a foreign car (K Jetronic type) by the use of the adapter for PGS-10C.



Provided adapter

- ① Internal diameter 6mm Hose (15 x 6)
- 2 Internal diameter 7mm Hose (12 X 7)
- 3 Round joint Internal diameter 8mm
- 4 Round joint Internal diameter 10mm
- 5 Round joint Internal diameter 12mm
- 6 Union bolt 8mm
- (7) Union bolt 10mm
- 8 Union bolt 12mm
- 9 Straight joint
- 10 T-type joint
- ※ A variety of optional adapters are also available

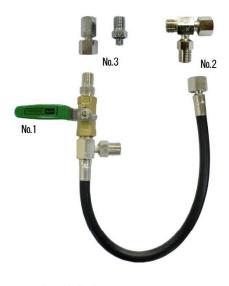
PGS-10C Fuel pressure indicator (for foreign car)



Meter diameter	Max. scale	Min. scale	Overall length	Case	Total weight
φ 100mm	1,000kPa (Approx.1 0 kgf/ cm)	10kPa	720mm	Metal case W 290 × D 155 × H 70mm	Approx. 2,250g

This fuel pressure indicator is provided with adapters for the measurement of the fuel pressure of foreign cars (K Jetronic type) and allows the testing of fuel injection equipment by measuring the fuel pressure on each part such as system pressure and control pressure.

%The tester also allows the measurement of the fuel pressure of a Japanese car by the use of the adapters for PG-10D.



Provided adapter

No.1 Hose with two-way cock

 $(M12 \times 1.5)$

No.2 Benz

 $(M14 \times 1.5 T-type)$

No.3 Audi

(M8 x 1.0, Set of male and female adapters)

XA variety of optional adapters are also available.

Measuring instruments of fuel pressure

Adapters for Fuel pressure indicator (For PG-10D and PGS-10C)



Model	Applicable vehicle type	Thread size	Туре	Remarks
No 4	Porsche	M6 × 1.0	Set of male and famale adapters	No.1 Hose with two-way cock
No 5	Porsche	M14×1.5	T type	
No 6	Porsche	M16×1.5	T type	
No 7	Benz	M8 × 1.0	Straight	
No 8	Benz	M10×1.0	T type	
No 9	Benz	M10×1.25	T type	
No10	Benz	M12 × 1.5	T type	
No11	Volvo	M14×1.5	Straight	
No12	Lincoln, Corvette	8V1	Straight (Core type)	TV-8 32 threads
No13	Honda	M6 × 1.0	Straight	
No14	Mazda	M14×1.5	Union and bolt set	
No15	Pontiac	7/16-20UNF	T type	
No16	BMW, Volvo Volkswagen	M12×1.5	Bolt alone	Round joint, 12mm required
No17	Chevrolet, Cadillac	7/16-20UNF	Straight (Core type)	
No18	Porsche	M8 × 1.0	T type	
No19	Toyota		T type	Provided with special tool
No20	Honda	M12×1.0		
No21	Mitsubishi		T type	Bolt (2)
No22	Honda (for 8mm pipes)		T type	Coupler type
No23	Toyota (for 8mm pipes)		T type	Coupler type





Fuel pressure indicator for LPG car



This is a tester for inspecting and servicing the regulator of LPG car. Inspection of decompression performance can be made by measuring the fuel pressure of the regulator by connecting it to the blind plug of the regulator.

Meter diameter	Max. scale	Min. scale	Overall length	Accessories	Total weight
φ 60mm	100kPa (Approx. 1kgf/cm²)	5kPa	1,620mm	Nipple PT1/8	Approx. 500g

[※] A variety of optional adapters are available in various sizes.

Measuring instruments of hydraulic pressure

CT-2 Hydraulic gauge (for low pressure)



This hydraulic gauge can be used for the measurement of engine oil pressure of a motor and a low-pressure part of a service vehicle and construction machine.

Meter diameter	Max. scale	Min. scale	Overall length	Accessories	Total weight
φ 60mm	1,500kPa (Approx. 15kgf/ciii)	50kPa	1,470mm	Nipple (for low pressure) PT1/8 Nipple (for low pressure) PT1/4	Approx. 750g

Optional adapter

L-type joint (for low pressure)

Nipple (for low pressure) PT3/8, PT1/2, PT5/8, PT3/4, and in other thread sizes

CT-2H·3H·3.5H·5H·7H

Hydraulic gauges (for high pressure)



※The photo shows Model CT-2H

This hydraulic gauge can be used for the measurement of a high-pressure part of a service vehicle, construction machine and various machine tools.

Five types of hydraulic gauges are available according to the pressure to be measured as detailed below

Model	Meter diameter	Max. scale	Min. scale	Overall length	Provided nipple (for high pressure)	Total weight
CT-2H	φ 75mm	25MPa (Approx. 250kgf/cm²)	0.5MPa	1,540mm	PT1/8、PT1/4、PT3/8	Approx. 910g
CT-3H	φ 100mm	30MPa (Approx. 300kgf/cm²)	0.5MPa	1,580mm	PT1/8、PT1/4、PT3/8	Approx. 1,030g
CT-3.5H	φ 100mm	35MPa (Approx. 350kgf/cm²)	1MPa	1,580mm	PT1/8、PT1/4、PT3/8	Approx. 1,030g
CT-5H	φ 100mm	50MPa (Approx. 500kgf/cm²)	1MPa	1,580mm	PT1/8、PT1/4、PT3/8	Approx. 1,045g
CT-7H	ϕ 100mm	70MPa (Approx. 700kgf/cm²)	2MPa	1,580mm	PT1/8、PT1/4、PT3/8	Approx. 1,610g

Optional adapter

L-type joint (for high pressure)

Nipple (for high pressure) PT1/2, PT5/8, PT3/4, and in other thread sizes

• The max. scale other than the standard scale is available upon request.

Triple set of hydraulic gauges (for low and high pressure)



The triple set of hydraulic gauges including gauges allowing the measurement of low pressure through high pressure can be used for extensive applications.

Meter diameter	Max. scale	Min. scale	Overall length	Accessories	Case	Total weight
φ 60mm	2.5MPa (Approx. 25kgf/cm²)	0.1MPa	1,470mm	Nipple (for low pressure) PT1/8, PT1/4 (1 for each)	Metal case	
φ 75mm	7MPa (Approx. 70kgf/cm²)	0.2MPa	1,630mm	Nipple (for high pressure)	W 275 V	Approx. 4,500g
φ 75mm	35MPa (Approx. 350kgf/cm)	1MPa	1,580mm	PT1/8, PT1/4, PT3/8 (2 for each)	H 80mm	

• A variety of optional adapters are also available.



Note for selecting a hydraulic gauge

In selecting a hydraulic gauge, use caution so that pressure to be measured does not exceed the maximum scale of the meter. The use of the gauge for measuring exceeding the maximum scale may result in an accident causing damage to the gauge and rupture of the hose.

Throttle device for hydraulic gauge (Buffer screw 1/4, 3/8, 1/2)



If the pulsation of pressure to be measured is extremely large, the indicator of the pressure gauge is extremely shaken, which may result in failure of the gauge. In this case, use the throttle device by connecting it to the hydraulic gauge so as to reduce the shaking of the indicator, which makes it possible to read indicator with ease and to prolong the life of the gauge.

AT-3 Hydraulic gauge for automatic transmission



Meter diameter	Max. scale	Min. scale	Overall length	Case	Total weight
ϕ 75mm	3MPa (Approx. 30kgf/cm²)	0.1MPa	2,090mm	Metal case W 290 × D 155 × H 70mm	Approx. 2,700g

This hydraulic gauge is used to make measurement of various hydraulic systems of the automatic transmission system so as to locate faulty part such as a pressure leakage, defective part of a hydraulic piston and clogging of a screen.

The adapter and the tester are connected by means of a coupler with a valve. So, after adapters are fitted onto all the parts requiring measurement, the tester can be connected to the adapters one after another, thereby allowing quick measurement.

Provided adapters

PT1/4	L-type, Long	(1)
PT1/4	L-type, Short	(1)
PT1/4	Straight	(1)
$M12 \times 1.5$	Straight	(1)
PT1/8	L-type, Long	(1)
PT1/8	L-type, Short	(1)
PT1/8	Straight, Long	(1)
PT1/8	Straight, Short	(1)
5/16-24UNF	Straight	(1)

XA variety of optional adapters are also available.

PS-150 Pressure gauge for power steering



This is a tester for the measurement of hydraulic pressure of the hydraulic power steering system. With various types of adapters provided, the tester can be used for a wide variety of vehicle types.

Meter diameter	Max. scale	Min. scale	Overall length	Case	Total weight
φ60mm	15MPa (Approx. 150kgf/cm)	0.5MPa	1,660mm	Metal case W 375 × D 215 × H 80mm	Approx. 4,200g

XAdapters for vehicles of Hino Motors are separately available.

	Nissan			Toyota			Isuzu			
PN-1	PN-2	PN-3	PN-4	PT-1	P ⁻	Г-2	F	PI-1	PI-2	
				‡		ڙ				
PN-5	PN-6	PN-7		PT-3	PT-4	PT-5	F	1-3	PI-4	

BC-4WD Hydraulic pressure tester for brake



This tester allows the simultaneous measurement of the hydraulic pressure of two systems of the hydraulic brake. The hose as long as 3 meter and the handle type air- bleeding valve requiring no tool allows quick and easy setup for measurement.

Meter diameter	Max, scale		Overall length	Accessories	Case	Total weight
ϕ 60mm	15MPa (Approx. 150kgf/cm)	0.5MPa	3,170mm	Adapter M10 × 1.0 (2)		Approx. 5,350g

BT-2.BT-3A.BT-3H.BT-4

Brake booster tester



This tester allows performance tests of various brake boosters in the vehicle-installed state.

- Testing capacity (BT-4)
 - 1 Air tightness test when opened
 - 2 Oil tightness test
 - 3 Operation start pressure test
 - 4 Operating air tightness test at full load
 - 5 Air tightness test of vacuum check valve
 - 6 Air tightness test of power piston

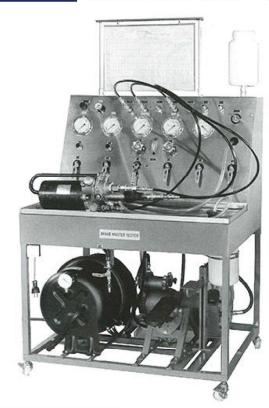
Tester	Meter diameter	Max. scale	Min. scale	Overall length
20MPa Pressure gauge	φ /5mm	(Approx. Zookgi/ uii)	1MPa	1,540mm
10MPa Pressure gauge	ϕ 75mm	10MPa (Approx. 100kgf/cm²)	0.5MPa	1,540mm
1MPa Pressure gauge	ϕ 60mm	1MPa (Approx. 10kgf/cmੈ)	0.02MPa	1,470mm
-100kPa Vacuum gauge	ϕ 75mm	Negative pressure -100kPa (Approx. 75cmHg)	5kPa	1,670mm

★The photo shows Model BT-4.

Model	BT- 2 BT- 3 A		BT- 3 H	BT- 4
Item included in the set	20MPa pressure gauge 10MPa pressure gauge	20MPa pressure gauge 10MPa pressure gauge 1MPa pressure gauge	20MPa pressure gauge 10MPa pressure gauge -100kPa vacuum gauge	20MPa pressure gauge 10MPa pressure gauge 1MPa pressure gauge -100kPa vacuum gauge
Accessories	Adapter for 20MPa (2) (M10 × 1.25) Nipple for 10MPa (1) (PT1/8) Adapter for 20MPa (2) (M10 × 1.25) Nipple for 10MPa (1) (PT1/8) Nipple for 1MPa (1) (PT1/8)		Adapter for 20MPa (2) (M10 × 1.25) Nipple for 10MPa (1) (PT1/8) Nipple for vacuum gauge (1) (PT1/8) Rubber adapter for vacuum gauge (1)	Adapter for 20MPa (2) (M10 × 1.25) Nipple for 10MPa (1) (PT1/8) Nipple for 1MPa (1) (PT1/8) Nipple for vacuum gauge (1) (PT1/8) Rubber adapter for vacuum gauge (1)
Application	For hydraulic pressure measurement	For air master	For hydro master	For air master For hydro master
Total weight	Approx. 4,300g	Approx. 4,900g	Approx. 4,750g	Approx. 5,350g
Case		Metal case	W 400 × D 355 × H 105mm	

BMT-70 Tester for brake master

[production on order]



This tester for the brake master allows continuous checking of the brake booster equipment including the air master, air booster, and hydro master installed on a large- size car, for each unit in actual running conditions.

It allows continuous operation check for each item. Each unit and tester main body are connected by a one-touch coupler to enable easy inspection work.

- Unit measurement item
 - 1 Hydraulic pressure and air tightness
 - 2 Air tightness test in non-operating and open state
 - 3 Operation start pressure test
 - 4 Full-load test
 - (5) Air tightness test at full load
 - 6 Residual pressure check valve test
- Outside dimensions

860 (Overall width) ×

700 (Depth) ×

1,438 (Overall height) (mm)

Weight

Approx. 95kg

DI-50·DI-50B Nozzle tester



The nozzle tester is used for inspection and adjustment through the measurement of injection open valve pressure, oil-tightness test and visual inspection of injection angle and atomized state of an injection nozzle for a diesel engine.

Model DI-50B is provided with a valve on Model DI-50. The valve is closed to cut pressure transmission to the meter so as to protect the meter when the injection state is visually checked or the injection nozzle is removed.

Model	Meter diameter			Pressurization capacity	Accessories	Total weight
DI-50	φ 100mm	50MPa	1MPa	EOMD-	Adapter pipe No1	Approx. 6,000g
DI-50B		(Approx. 500kgf/cm)			Adapter pipe No4	Approx. 6,500g

■ Table of adapter pipes for nozzle tester



No	Applicable manufacturer (for reference)	Thread size / Seal type	Remarks	
No1	Isuzu	Female screw M14 × 1.5 / Male seal	Standard accessories	
No2	Nissan Diesel	Male screw M16 × 1.5 / Male seal	Optional accessories	
No3	Isuzu Toyota Daihatsu Mitsubishi	Female screw M12 × 1.5 / Male seal	Optional accessories	
No4	Toyota Hino Mazda Mitsubishi Kubota	Female screw M12 × 1.5 / Male seal	Standard accessories	
No 5	Yanmar Komatsu	Male screw M14 × 1.5 / Male seal	Optional accessories	
No6	Yanmar	Female screw M14 × 1.5 / Male seal	Optional accessories	

^{*} The information on the applicable manufacturer included in the Table is given just for a reference purpose. Be sure to check the thread size and seal type for use.

VR-1 Air valve lapper



The air valve lapper improves efficiency in lapping of valves by the use of air pressure of a compressor.

Since required up-and-down motion is given by adjusting air pressure, this lapper can be used extensively for a smaller valve to a larger valve.

Opera	ating essure	Outside dims.	Main body weight	Accessories	Total weight
(Appro	0.8MPa x. Bkgf/cm³)	225 × φ 80mm	Approx. 1,200 g	Hose joint Suction rubber 45mm(Dia.) Suction rubber 35mm(Dia.) Suction rubber 30mm(Dia.) Suction rubber 20mm(Dia.)	1,600g

☆Optional accessories: Suction rubber 16mm (Dia.)

Hand valve lapper



SI unit (International unit) of pressure value

■ SI unit (International unit)

In line with the revision of the Measurement Law, the SI unit system was adopted as international unit in place of the gravitational unit system conventionally used so far. As a result, "Pa (Pascal)" of the SI unit is used these days in place of "kgf/cm²(kg/cm²)" and "cmHg (mmHg)" which have been generally used for the unit of pressure. As the unit for pressure gauges, MPa (Megapascal) or kPa (Kilopascal) is used.

$$1 \text{ MPa} = 1,000 \text{ kPa} = 1,000,000 \text{ Pa} = 10.197 \text{ kgf/cm}^2$$

■ Conversion formula

From the conventional unit to SI unit

MPa	=	kgf/cm³	×	0.0980665
MPa	=	cm Hg	×	0.0013332

Conversion table

MPa	Megapascal	1	0.0981	0.00133	0.1	0.10132	0.06894
kgf/cm³ (kg/cm³)	Weight kilogram per square centimeter	10.197	1	0.013595	1.0197	1.0332	0.0703
cm Hg	Centimeter of mercury	750.06	73.56	1	75.006	76	5.171
bar	Bar	10	0.9807	0.0133	1	1.0133	0.0689
atm	Atmospheric pressure	9.869	0.9678	0.01316	0.9869	1	0.068
Ibw/in² (Ib/in²) (psi)	Weight pound per square inch	145.03	14.223	0.1933	14.503	14.7	1

[💥] Use this table as a guide for approximate conversion values.



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Distributor

★The specifications included in this General Catalog are subject to change without notice.