Instructions

- 1. First, park the car in accordance with the best safety practice, but **DO NOT** apply the handbrake.
- 2. Next, jack up the car and remove the road wheel or wheels to expose the brake calipers on which you are going to work.
- 3. Remove one or both of the caliper retaining fasteners and either pivot the caliper away from the brake disc or detach it completely.

Note: Take great care at all times not to damage or snag the brake hose as this may subsequently make the vehicle unsafe.

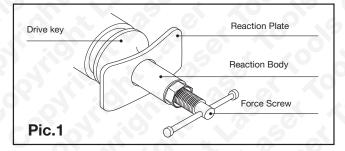
DO NOT allow the calliper to hang free by its flexible hose.

- 4. Remove the worn brake pads after first disconnecting the wear warning wires if these are fitted.
- Now select the appropriate drive key to suit the position. The drive key should be as near as possible to the same diameter as the piston.
- 6. Fit the drive key to the force screw. To make this easier, the force screw is magnetic and has two pins to engage the drive key positively.

Note: Some pistons need to be rewound under pressure. For this purpose, use the reaction plate (Pic.1)

Lubricate the force screw with a few drops of oil before using it.

- 7. Slip the reaction plate over one arm of the T-bar on the force screw and manoeuvre it on to the reaction body so that it rests against the flange at the bottom of the body.
- 8. Now fit the reaction plate into the caliper fork (Pic.1) and tighten the force screw by turning the T-bar clockwise until the piston is fully rewound into the bore.
- 9. Finally, loosen the force screw by turning the T-bar anti-clockwise until you can remove the force screw and reaction plate from the caliper.
- 10. Fit new brake pads, service the caliper and reassemble.





Safety First. Be Protected.

Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: +44 (0) 1926 818186. Normal wear and tear are excluded as are consumable items and abuse.



Distributed by The Tool Connection Ltd

Kineton Road, Southam, Warwickshire CV47 0DR T +44 (0) 1926 815000 F +44 (0) 1926 815888 info@toolconnection.co.uk www.toolconnection.co.ul



LASER®

Brake Caliper Tool Set

37pc

Instructions

- Comprehensive brake caliper tool set for wind back and push back systems.
- Left and right hand threaded wind back tools.
- Includes 30 adaptors and 5 reaction plates.



Introduction

This laser tool kit is a universal product suitable for use on disc brake calipers on most European and Japanese cars. Designed for rewind and push back pistions, it is an essential tool for caliper servicing and makes brake pad replacement quick and easy.

Warning notice

Read these instructions through carefully before you use the Brake Caliper Piston Rewind Tool kit correctly. If you do not use the kit correctly, as described in these instructions, you may damage either the piston or the bore or both. You may also cause damage to the brake pipes, rendering the vehicle unsafe to drive.

Important

For specific detailed instructions on using this kit correctly, please refer to the vehicle manufacturer's workshop manual or the appropriate Haynes manual.

Applications

Make	Model	Details	Caliper	Adaptor	Renault	Laguna	19.5mm centres x 4mm pins	Rear	IA	Ford		28mm centres x 4mm pins	
Vauxhall/Onel	Wodel	Seville/Eldored 79/ 2 1/2" diameter	Odilpoi	Adaptor	Renault	R21		Heal	A				
vacation oper				U			19.5mm centres x 4mm pins		-	Lancia		28mm centres x 4mm pins	L
Citroen	Xantia	43.5mm centres x 6mm pins/36.75 insert x 6mm x 9mm pin		2	Subaru	1600 Kombi 79-83	28mm centres x 10mm pins		В	Proton		28mm centres x 4mm pins	L
Citroen	XM	43.5mm centres x 6mm pins/36.75 insert x 6mm x 9mm pin	Front and rear	2	Subaru	1800/Lim	28mm centres x 10mm pins		В	Renault		28mm centres x 4mm pins	L
Honda		43.5mm centres x 6mm pins/36.75 insert x 6mm x 9mm pin		2	Subaru	1800GT	28mm centres x 10mm pins	* ON	В	Rover		28mm centres x 4mm pins	L
Alfa Romeo		12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Subaru	4WD (82-83)	28mm centres x 10mm pins		В	Volkswagen		28mm centres x 4mm pins	
Audi		12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Suharu	GTS	28mm centres x 10mm nins		B	Austin	Mini Cooper	19mm centres x 5.5mm pins	M
BMW	318iS	12.5mm centre pin - two steps 43.5mm/37.5mm	TTOIR	3	Subaru	SBX 1.6-1.8	28mm centres x 10mm pins		В	Ford	ини осорог	19mm centres x 5.5mm pins	M
	320i			3	Subaru	Tourismo	28mm centres x 10mm pins		В	Nissan	Primera 03-	19mm centres x 5.5mm pins	M
BMW		12.5mm centre pin - two steps 43.5mm/37.5mm							_				
BMW	325TD	12.5mm centre pin - two steps 43.5mm/37.5mm		3	Subaru	Turbo 85	28mm centres x 10mm pins		В	Audi	A8	33.5mm centres x 6mm pins	M2
	518i	12.5mm centre pin - two steps 43.5mm/37.5mm		3	Subaru	XT	28mm centres x 10mm pins		В	Audi	S8 99-	33.5mm centres x 6mm pins	M2
BMW	525i	12.5mm centre pin - two steps 43.5mm/37.5mm		3	Nissan	Primera 02-	12mm centres x 4 pinsx 4mm	KOKK	C	Citroen		33.5mm centres x 6mm pins	M2
BMW	740i	12.5mm centre pin - two steps 43.5mm/37.5mm		3	Toyota	Avensis	12mm centres x 4 pinsx 4mm		С	Renault		33.5mm centres x 6mm pins	M2
BMW	850Ci	12.5mm centre pin - two steps 43.5mm/37.5mm		3	Vauxhall/Opel	Vectra 02-	12mm centres x 4 pinsx 4mm		С	Alfa Romeo	164 2.0 Turbo 88-	12 Hex magnetic	N
BMW	M5	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Citron	BX 83- / BX 16v 88-	44mm centres x 6mm pins/Fixing Screw/Stepped		D	Alfa Romeo	164 2.0 Twin Spark	12 Hex magnetic	N N
Fiat	IVIS	12.5mm centre pin - two steps 43.5mm/37.5mm	FIUIL	-	Oldon	DA 63- / DA 10V 66-			_	Alfa Romeo	164 3.0 V6	12 Hex magnetic	
				3	Renault		44mm centres x 6mm pins/Fixing Screw/Stepped		D			1 = 1 to the state of the state	N
Ford	Fiesta	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Nissan	Cefiro	22mm centres 4pins x 5mm		E	Audi	80	12 Hex magnetic	N
Honda	Concesto	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Nissan	Maxima	22mm centres 4pins x 5mm		E	Audi	90	12 Hex magnetic	N
Isuzu		12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Fiat	Stilo	26.5mm centres x 4mm pins		F	Audi	100	12 Hex magnetic	N
Jaguar	XJ40	12.5mm centre pin - two steps 43.5mm/37.5mm	Front and Rear	3	Vauxhall/Opel		26.5mm centres x 4mm pins	Rear	F	Audi	200	12 Hex magnetic	N
Jaguar	XJ6	12.5mm centre pin - two steps 43.5mm/37.5mm	Front and Rear	3	Peugeot	206 CC/Hdi/Gti	16mm spanner required		Н	Audi	200 80-	12 Hex magnetic	N
Mercedes-Benz		12.5mm centre pin - two steps 43.5mm/37.5mm	Front	2	Alfa Romeo	155 1.8-2.0	33.5mm centres x 6mm pins/ridged		1	Audi	90 20v 88-	12 Hex magnetic	N
				3					J		0.0 0.0 0.0		
Mercedes-Benz		12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Alfa Romeo	164 3.0 V6 92-	33.5mm centres x 6mm pins/ridged		J	Audi	Coupe GT SE 82-	12 Hex magnetic	N
Mercedes-Benz		12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Alfa Romeo	164 TD 93-	33.5mm centres x 6mm pins/ridged		J	Audi	Quattro 87-	12 Hex magnetic	N
Mercedes-Benz		12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Audi	80/80 V8	33.5mm centres x 6mm pins/ridged	Rear	J	Ford	Mondeo 2.0 Ghia	12 Hex magnetic	N
Mercedes-Benz	560	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Audi	90/ 90 V8	33.5mm centres x 6mm pins/ridged	Rear	J	Honda		12 Hex magnetic	N
Mitsubishi	Colt	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Audi	A3	33.5mm centres x 6mm pins/ridged	Rear	J	Lancia	Themalte 85-	12 Hex magnetic	N.
Nissan	Miera	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Audi	A4	33.5mm centres x 6mm pins/ridged	Rear	J	Saab	momato do	12 Hex magnetic	N N
Nissan	Stanza	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Audi	A6	33.5mm centres x 6mm pins/ridged	Rear	J	Volkswagen	Golf II Gti 83-87	12 Hex magnetic	N
THIOUGHT				0									
Nissan	Sunny	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Audi	A8	33.5mm centres x 6mm pins/ridged	Rear	J	Volkswagen	Scirroco 16v 84-	12 Hex magnetic	N
Toyota	Camry	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Citroen	ZX 2.0 16v	33.5mm centres x 6mm pins/ridged		J	Nissan	Bluebird	31mm centres x 5mm pins	with Bosch rear calipers P
Volkswagen	Golf Gti	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Fiat	Crama TD	33.5mm centres x 6mm pins/ridged		J	Nissan	Primera 2.0	31mm centres x 5mm pins	with Bosch rear calipers P
Volkswagen	Passat	12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Fiat	Tipo TD 16v Turbo 85-	33.5mm centres x 6mm pins/ridged		J	Vauxhall/Opel	Astra-C	31mm centres x 5mm pins	with Bosch rear calipers P
Volvo		12.5mm centre pin - two steps 43.5mm/37.5mm	Front	3	Honda	Accord 1800 84-85/2.0i 86-	33.5mm centres x 6mm pins/ridged		J		Astra-G	31mm centres x 5mm pins	with Bosch rear calipers P
Fiat	164 2.0	22mm centres x 5mm pins	Rear	4	Honda	CRX 1.6 16v 88-90	33.5mm centres x 6mm pins/ridged		J	Vauxhall/Opel		31mm centres x 5mm pins	with Bosch rear calipers P
			nedi						_		Zdilid		
Honda	Grand Prix	22mm centres x 5mm pins		4	Honda	Legend V6	33.5mm centres x 6mm pins/ridged	4 /	J	Volkswagen		31mm centres x 5mm pins	with Bosch rear calipers P
Honda	Prelude CRS 16i	22mm centres x 5mm pins		4	Honda	Prelude 16v 88-	33.5mm centres x 6mm pins/ridged		J	Alfa Romeo	164 2.0	21.5mm centres x 5,5mm pins (ridged)	Q
Honda	Saturn	22mm centres x 5mm pins	Rear	4	Jaguar	XJ 40 Series	33.5mm centres x 6mm pins/ridged		J	Fiat	Barchetta	21.5mm centres x 5,5mm pins (ridged)	Q
Mazda		22mm centres x 5mm pins	Rear	4	Lancia	Dedra 2.0i Turbo 93-	33.5mm centres x 6mm pins/ridged		J	Fiat	Uno Turbo	21.5mm centres x 5,5mm pins (ridged)	Q
Saah	9000	22mm centres x 5mm pins	Bear	4	Lancia	Delta 1.6 Gti 92-	33.5mm centres x 6mm pins/ridged	(2)	J	Ford	Mondeo V6 24v	21.5mm centres x 5.5mm pins (ridged)	0
Saab	Lumina	22mm centres x 5mm pins	Hour	1	Lancia	Kappa 2.0-2.4LS/2.4TD	33.5mm centres x 6mm pins/ridged		Ĭ.	Honda	Accord	21.5mm centres x 5,5mm pins (ridged)	0
	Lullilla	22mm centres x 5mm pins		4		Thema 2000 Turbo			J				0
Toyota				4	Lancia		33.5mm centres x 6mm pins/ridged		J	Honda	Civic Vti	21.5mm centres x 5,5mm pins (ridged)	
		19mm centres x 6mm pins		5	Nissan	100NX 2.0 93-	33.5mm centres x 6mm pins/ridged		J	Honda	Concerto S 1.6	21.5mm centres x 5,5mm pins (ridged)	Q
Vauxhall/Opel		22mm centres x 5mm pins		4	Nissan	200 SX Turbo 16v	33.5mm centres x 6mm pins/ridged		J	Honda	CRX	21.5mm centres x 5,5mm pins (ridged)	Q
Nissan	Primera	33mm centres x 6mm pins		6	Nissan	280 ZX 82-84	33.5mm centres x 6mm pins/ridged		J	Rover	220 C Turbo 95-	21.5mm centres x 5,5mm pins (ridged)	Q
Volkswagen	Golf IV	33mm centres x 6mm pins		6	Nissan	300 ZX Turbo 84-99	33.5mm centres x 6mm pins/ridged		J	Saab	900 81-87	21.5mm centres x 5,5mm pins (ridged)	Q
Alfa Romeo		32mm centres x 6mm pins		7	Nissan	Bluebird 16v 89-	33.5mm centres x 6mm pins/ridged	VA.	J	Saab	900 Turbo 74-81	21.5mm centres x 5,5mm pins (ridged)	Q
Audi	80	32mm centres x 6mm pins		7	Nissan	Maxima 2.0 GX/3.0 GX 95-	33.5mm centres x 6mm pins/ridged		J G	Saah	991	21.5mm centres x 5.5mm pins (ridged)	Q
Audi	90	32mm centres x 6mm pins		7	Nissan	Primera 2.0 GT 94-	33.5mm centres x 6mm pins/ridged		J	Subaru	JJL		Q
									J			21.5mm centres x 5,5mm pins (ridged)	
Audi	100	32mm centres x 6mm pins		7	Nissan	Silvia 1.8 Turbo 85-88	33.5mm centres x 6mm pins/ridged		J	Mazda	323 Gti/GTX 86-	19mm centres x 6mm pins (ridged)	R
Audi	Coupe E	32mm centres x 6mm pins	Rear	7	Peugeot	306 Gti 16S 91-	33.5mm centres x 6mm pins/ridged		J	Mazda	626 16v 87-	19mm centres x 6mm pins (ridged)	R
Citroen		32mm centres x 6mm pins		7	Peugeot	405 16v	33.5mm centres x 6mm pins/ridged		J	Mazda	626 GT 86-	19mm centres x 6mm pins (ridged)	R
Fiat		32mm centres x 6mm pins		7	Peugeot	405 87-	33.5mm centres x 6mm pins/ridged		J	Mazda	929 82-	19mm centres x 6mm pins (ridged)	R
Honda		32mm centres x 6mm pins		7	Renault	Master Van	33.5mm centres x 6mm pins/ridged		J	Mazda	929 V6 88-	19mm centres x 6mm pins (ridged)	B
Jaguar		32mm centres x 6mm pins		7	Rover	216 Gti 16v	33.5mm centres x 6mm pins/ridged		J	Mazda	RX7 81-	19mm centres x 6mm pins (ridged)	B
Lancia		32mm centres x 6mm pins		7	Rover	820 Si 2.0 93-	33.5mm centres x 6mm pins/ridged		J	Mitsuhishi	Galant GI Si	19mm centres x 6mm pins (ridged)	B
	Disselied 1 O To 1			7					-	TVIITEDELIDIOTII			
Nissan	Bluebird 1.8 Turbo	32mm centres x 6mm pins		1	Rover	825 SD 2.5 93-	33.5mm centres x 6mm pins/ridged		J	Toyota	Celica	19mm centres x 6mm pins (ridged)	R
Nissan	Primera 2.0i LS/GS.GSX	32mm centres x 6mm pins	Rear	7	Saab	9000 CS 2.0 93-	33.5mm centres x 6mm pins/ridged		J	Toyota	Corolla GT	19mm centres x 6mm pins (ridged)	R
Nissan	Silvia Turbo	32mm centres x 6mm pins	X 707	7	Saab	9000 CSE Turbo 93-	33.5mm centres x 6mm pins/ridged		J	Toyota	MR2	19mm centres x 6mm pins (ridged)	R
Peugeot	405 1.9 Gi/Gri, Sri, GTXi, MI, 16	32mm centres x 6mm pins		7	Seat	Ibiza 1.8 Gti 16v 95-	33.5mm centres x 6mm pins/ridged		J	BMW	740 8cyl 91-	20mm centres x 4mm pins	S
Peugeot	605 2.0 Sri	32mm centres x 6mm pins	Rear	7	Seat	Toledo GT 16v /GT 2.0 93-	33.5mm centres x 6mm pins/ridged		J	Lancia	Delta 1.9 TD 95-	20mm centres x 4mm pins	S
Renault		32mm centres x 6mm pins		7	Subaru	L Series	33.5mm centres x 6mm pins/ridged		1.	Proton	416	20mm centres x 4mm pins	S
Rover	800 ABS	32mm centres x 6mm pins		7	Subaru	Series 2	33.5mm centres x 6mm pins/ridged		i i	Renault	Laguna 2.0 94-	20mm centres x 4mm pins	S S
	000 AD0			7					J				3
Saab		32mm centres x 6mm pins		/	Volkswagen	Golf II Gti 16v 89-	33.5mm centres x 6mm pins/ridged		J	Renault	Laguna 2.2D 95-	20mm centres x 4mm pins	S
Seat		32mm centres x 6mm pins		7	Volkswagen	Golf Rallye -89	33.5mm centres x 6mm pins/ridged		J	Renault	Safrane 2.0-2.2 TD V6	20mm centres x 4mm pins	S
Subaru	L + Z	32mm centres x 6mm pins	Rear	7	Volkswagen	Passat 2.0 /2.2 84-	33.5mm centres x 6mm pins/ridged		J	Rover	623 Si	20mm centres x 4mm pins	S
Toyota	Celica	32mm centres x 6mm pins		7	Volkswagen	Transporter T4	33.5mm centres x 6mm pins/ridged		J	Volkswagen	Golf Gti Mk III	20mm centres x 4mm pins	S
Toyota	Corolla GT	32mm centres x 6mm pins		7	Volkswagen	Vento GT 92-	33.5mm centres x 6mm pins/ridged		J	Volkswagen	Golf Gti Mk IV	20mm centres x 4mm pins	S
Toyota	MR2	32mm centres x 6mm pins	Rear	7	Volvo	S40	33.5mm centres x 6mm pins/ridged		J	Volkswagen	Passat VR6	20mm centres x 4mm pins	Ş
	Corrado 16v		Hoai	7					U				S
Volkswagen		32mm centres x 6mm pins			Volvo	V40	33.5mm centres x 6mm pins/ridged		J	Volkswagen	Vento GT 92-	20mm centres x 4mm pins	
Volkswagen	Golf GTi	32mm centres x 6mm pins		7	Citroen	C5	35mm centres x 8mm pins		K	Renault	Modus	13.5mm centres x 4 pins x 5mm (Deep 15mm)	Т
Volkswagen	Jetta Gti 16v	32mm centres x 6mm pins		7	Citroen	C5	16mm centres 3 line pins x 9mm	Front left & right rear		Renault	R21	13.5mm centres x 4 pins x 5mm (Deep 15mm)	T
Volkswagen	Jetta Synchro	32mm centres x 6mm pins		7	Renault	A 10 -	16mm centres 3 line pins x 9mm		K1	Renault	Clio	31mm centres x 4mm	V
Volkswagen	Passat Cl/GL/GT/GT 16v	32mm centres x 6mm pins		7	Audi		28mm centres x 4mm pins		L	Volkswagen		26mm centres 3 pins x 5mm	W
Volkswagen	Scirroco GTX 16v	32mm centres x 6mm pins	Rear	7	BMW		28mm centres x 4mm pins						
Vauxhall/Opel	25250 01 101	2 1/8" diameter		0	Citroen	C3	28mm centres x 4mm pins		1				
vaaniaii/ opei	A Company of the Comp	12 1/0 ulumotol		3	OHUUUH	00	Leonin remarks x 4mm bins		I L	1			