## LASER®

The Laser Grand Master Brake Caliper Service Tool Set (4003) is distributed by The Tool Connection Limited. If you would like details of other tools and equipment in our range, please ring or write for a copy of our catalogue.

Spare parts are available from Tool Connection & not through the distributor.

Any warranty claims should be made direct to Tool Connection.

### Safety Warnings:

- Do not park and/or lift the car unsafely.
- Check the brake fluid level in the master cylinder as overflow will cause damage.
  - Always consult and adhere to the car manufacturers instructions for both vehicle and caliper service procedures.
    - Do not continue to apply pressure with the tool once the piston has been fully retracted.
    - Do not damage the wear warning wires and flexible fluid hose.

We cannot consider a warranty claim for tool failure if you have used the kit incorrectly or if you use it for any other purpose than that for which it is intended. Nor can we be held responsible in any way for personal injury caused whilst using this kit.

Laser cannot be held responsible for damage caused to any vehicle whilst using these tools.



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4003



# LASER® BRAKE CALIPER SERVICE SET



## Laser's Grand Master Brake Caliper Service Tool Set

This comprehensive Laser Master Set of 21 special adaptors enable the retraction of brake pistons prior to replacing worn brake pads.

Suitable for both 'Wind-Back' and 'Push-Back' pistons as found on most brake calipers including Annette and Collette types.

The set includes two types of Reaction Nut & Screw Assembly (A), suitable for the majority of applications (right-hand threaded) and the second (coloured GOLD) (B) has a left-hand thread, which is suitable for the Citroën C5, Renault Master van and Ford Mondeo 2,0 Ghia.

Comprehensive application details are listed on the following pages Set contents:

- A Screw and T/Bar Assembly c/w Reation Nut RH thread
- B Screw and T/Bar Assembly c/w Reaction Nut LH thread
- C Drive Key 12mm Hexagon
- D Reaction Plate
- E Reaction Plate specifically for BMW Mini
- F Reaction Plate for Jaguar S Type

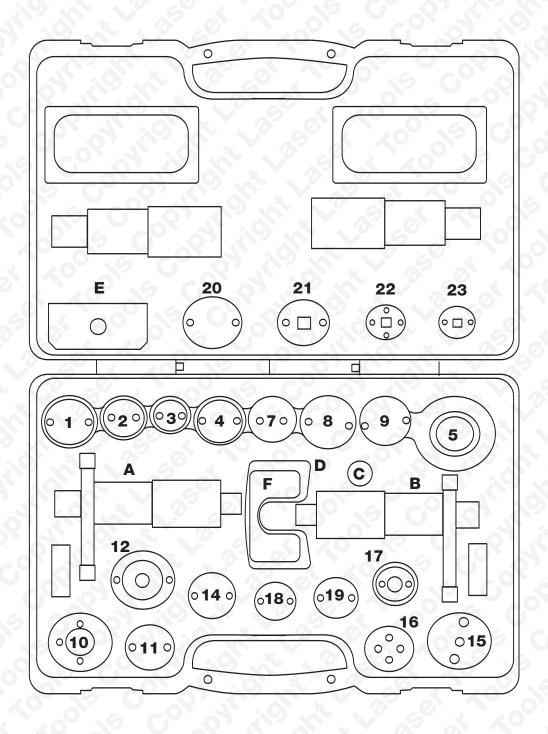
Drive Adaptors: No 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23

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Application				4		4		0		2			×		<b>V</b>	R			C			X
men	R A	ာ	E D	4	ı	3	t	Ģ	Z	8	6	11	12	11	GL	91	21	18	19	21	22	53
Renault Laguna 2.0 ABS (94) Laguna 2.2D(95), Safrane, 2.0-2.2 TD V6	•				5				•	Ŕ				H			H					
Renault Alpine V6 ('85-)			M	4		M						Hali			Щ	14	R	Ħ		M		
Renault Clio						, de						K									-	
Renault Modus		0		2	2			4	T				11/4			B		8			-	-
Rover 216 Gti 16V, 820 St 2.0 (93), 825 SD 2.5 (93)										9			7			9						
Rover 220 C turbo (95)	•					=	197	0					Si			7	T.		6,			4
Rover 623 Si	Î			C					•					1								
Rover - most models (push-back piston)				12				•	M								7	19				
Saab 9000 CS 2.0 (93), 9000 CSE Turbo (93)	•				•						R											
Saab 99L, 900 Turbo (74-81), 900 (81-87),	•			4													6					
Seat Toledo GT 16V - GT 2.0 (93), Ibiza 1.8 Gt 16V (95)	•				•	0			Ò			H									H	
Subaru L serie & Serie 2				7						8					C	Z		2				
Subaru 1600 Kombi (79-), 1.6-1.8 SRx, Kombi (79-83), 1800 ('84-), 1800 Lim, Kombi, Tourismo 4WD ('82-83), 1800 GT, GTS, XT, Turbo ('85-)	•		-					C						- 0							1	
														12	B							
Toy ota Avensis		D						J.				9			M	•						Н
Toy ota - most models (push-back piston)		V						-		Y	1						4					4
Vauxhall Astra G. Zatua	-			Ų			•					H										5
Volkswagen Passat 2 0 & 2 2 litre (84-),Golf Rallye (-89),Golf II G.D. 16V (89-), Contrado (89-),Vento GT (92), Transporter T4			630							9												
Volkswagen Golf Gti Mk III & Mk IV, Passat VR6, Vento GT (92)	•	N.							•							0				H		
Volkswagen Golf II GTi (83-87), Scirocca 16V ('84-)	•			M				9			2									4		
Volkswagen – most models (push-back piston)	-							•			Н				Ы			d	Н	Н		Н
Volvo S40 & V40	•							B			-3				2							
Volvo – most models						7							2									

Application	A	C	3	1	7	3	ç	2	8	10	11	ル	٩Ļ	91	18	61	20	21	22 22
Honda CRX, 1.6i-16V (88-90) Accord 1800 (84-85), 2.0i (86-), Prelude 16V (88-), Legend V6		-			C		33												
Honda - most models (push-back pistons)	-			2	Ž		•									Z.	7	î	
Honda Prelude 2.0 i & 2.3 i	•						Щ		H	•							5		
Jaguar XJ 40 series.	-				-	H		I				H		8			Ħ	10	10
Jaguar S series (99-)	•	Ī			\$		S	1	•					K					
Jaguar - most models (push-back pistons)	-			0		1	•							8			7		
Jaguar S Type						9		N	6			2	3	7		4			
Lancia Dedra 2.0 El Tur (93), Delta 1.6 Gti (92), Thema El 16v (92), Thema 2000 Turbo, Kappa 2.0-2.4LS, 2.4 TD																0			
Lancia Delta 1.9 TD (95)	-	0			2	-										Y			
Lancia Thema alte (85-)	•	•				9							A		è		Y		
Lincoln Continental									14						N.		Ħ	N	
Mazda 323 GTI, GTX (86-), 929 (82-), RX7 (81-), 626 16V (87-), 626 GT (86-), 929 V6 (88-)					•					A									
Mitsubishi Galant GLSi								0							R				
Misubishi – most models (push-back pistons)													(				7	Ç	
Nissan 280 ZX (82-84), 300 ZX Turbo (84-89), Bluebird 16V (89-), Silvia 1.8 Turbo (85-88) Turbo (85-88) Turbo (NX 2.0 (83), Primera 2.0 GT (94), 200 SX turbo 16V, Maxima 2.0 GX-3.0 GX (05)															4				
Nissan Primera 2.0, Bluebird.	•	F		P		P			H			L		H				6	
Nissan Primera '03 -			9											20		2			
Nissan Primera ('02-)					B										虎		N		
Nissan – most models (push-back piston)							•							H			Ì		
Opel AstraG, Zafira (with Bosch rear callipers)							4		8		M		3					B	
Opel Astra G, Corsa C, Zafira (with Lucas TRW rear callipers '02-)		-			N				-	3				2	-		Č		
Opel Vectra '02-				N											4			Ī	
Peugeot 206 '03								V				H							
Peugeot 306						9											ī		
Peugeot 309 Gtt 16S (91), 405 Sri, Gri, Gli (87-), 405 M1 16V	-								124							0	Ī	7	
Peugeot 406, 806	•	9					•			3							d		
Proton 416										Ì								Ī	
Renault Master Van:															7		F		
Renault - most models							24											7	7



### Operating instructions and useful tips

**Renault Master van** - Both calipers require the use of the Left Hand Threaded Screw & Reaction Nut (B) plus Adaptor No.1

**Citroën C5** – The right hand caliper has a left hand thread, the left hand calliper has a right hand thread – Adaptor No.15 suits both. The front callipers are push-back and require the right hand threaded Screw & Reaction Nut plus Adaptor No.5

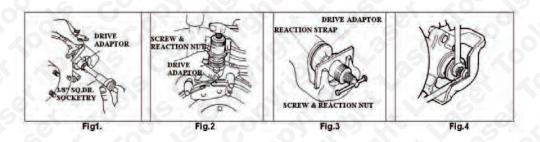
**Citroën BX, Peugeot 205** – The caliper design prevents the use of the Reaction Nut and Screw to return the Brake Piston. Adaptor No.12 was specially developed to resolve this, and is used along with two 19mm. open-ended spanners. See FIG.4

### **Operating Instructions:**

- Safely park the car and in accordance with safe recognised procedures remove the appropriate road wheel.
- 2. The hand brake should be off when servicing rear calipers.
- **3.** Remove one or both caliper retaining fasteners and either pivot or detach the caliper from the disc.

Warning! Do not snag or damage the flexible brake line and pad wear warning wires.

- 4. Disconnect the pad wear warning wires and remove the worn pads.
- 5. Check the brake fluid level. Remove some fluid if the level has been topped up due to pad wear, as the returning piston will push back the fluid.
- 6. Select the correct Drive Adaptor to fit the piston. If little reaction force is required the Adaptor can be used in conjunction with a 3/8" D ratchet and extension. (FIG.1). Some pistons will require returning under pressure and will require the use of Reaction Nut and Screw Assembly. (FIG.2) Retract the Screw to enable the Reaction Nut to be placed between the fork housing opposite the piston face. Attach the Adaptor to the Screw and locate against the piston face. Rotate the Reaction Nut back along the Screw until it contacts the caliper fork. Some forks may be wider than the Reaction Nut, so the Reaction Plate should be included (FIG.3)
- 7. Do not return the piston beyond the front face of the housing.
- 8. Always remove the tool after use.
- **9.** Fit new pads and reassemble the caliper etc. in conjunction with workshop manual instruction.



Application	A	၁	_ E D	1	7	3	ç	8 Z	6	01	11	14	91	91	81	61	20	12	22
Alfa Romeo 155 1 8-2.01, 164 TD (93), 164 3.0 V6 (91)				-	-				-			1							V
Alfa Romeo 164 2.01,	٠											7		H		ij			
Alfa Romeo 164 2 D Twin Spank, 2.0 Turbo (88-), 3 0 1 V6					9														4
Audi 80, 80, 8 V8's, A3, A4, A6, A8 (rear calliper)	•			-			I	-				K				2		F	
Audi A3,A4,A6,A8 (push-back pistons)					1/4		•					M	S				7		
Audi 100 TDj(91)	•								4										
Audi A8,58 (99-)						4	N							92		J			4
Audi 200 ('80-), Coupe GT SE (82-), 80,90,100,200,Quattro (-87), 90, 20V (88-		•					9								Ų	1			
BMM - most models (push-back piston)					1	6	•											7	
BIMN 7401 8cyl. (91)	•										$\leq$				0	7			
BMW Mini					B												14		
Citroën ZX 2.01 16v.	•						M		2						14				
Citroën - most models (push-back piston)		9										P				Ħ		H	
Citroën XM, XM Turbo CT 2.0, Xantia 1.8i - 1.9D & TD - 2.0I-2.0 16S (93-94),							X		X			I		60	9	K			
Activa		Ì		1			Î	ł						k		Ī		H	
Citroën BX ('83-), BX 16V ('88-)										R				2	4	П	Š		9
Citroën C3	•	*				8						•							
Citroën C5 (front calliper – left hand wheel)																R			
Citroën C5 (front calliper - right hand wheel)	P.						K												4
Citroën C5 rear callipers push-back pistons	•						•	Ŕ								T			
Flat Tipo TD 16V, Uno Turbo (85-), Croma TD							Í	V				V						7	
Fiat Une Turbo iE – Barchetta	•													H					H
Flat Stilg							J		3			1							
Ford Sierra (ABS bak), Granada (85-)	•												100		9				
Ford (Australia & NZ) Thunderbird Turbo	•			•									Ï			Ti	P		
Ford (Australia & NZ) Teistar, Laser					-											N		5	2
Ford Escort 2000 RS 16v, Mandeg V6 24v	•																		-
Ford (USA) Mercury, Monarch, Thunderbird	3						Í						3						
Ford Escort Mk III, IV, Orion, XR31, Focus (98-) push-back pistons	•						•				-					1	Ž		
Ford Mondeo 2,0 Ghia		-		7		2								H		A			
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