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QUALITY GUARANTEE & WARRANTY

KENNEDY TOOLS carry a one year manufacturers warranty.

KENNEDY TOOLS are designed & manufactured to the highest standards & specifications.
Assuring the quality and performance required by all sectors of industry.

KENNEDY TOOLS are fully guaranteed against faulty materials & workmanship.
Should they be found to be defective, they will either be repaired or replaced free of charge (fair wear and tear and/or misuse excepted).
This does not affect your legal rights.

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The Declaration of Conformity and Technical File for this product is held by The Kennedy Group Ltd. The Technical File may be inspected by a national authority upon request.



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KENNEDY TOOLS
Wigston Works, Leicester, England.
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KENNEDY®

QUALITY INDUSTRIAL TOOLING

RIGHT HAND BRAKE PISTON WIND-BACK TOOL KIT

- **Winds back disc brake calipers when replacing brake pads.**
- **Professional quality, allows the easy return of brake piston into the caliper.**
- **Suitable for most braking systems.**



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INSTRUCTION MANUAL

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KENNEDY **thoroughly recommends reading these instructions before using this equipment, even if you have used them before. Reading these instructions carefully and understanding them fully will enable you to perform tasks correctly and will prevent injury to yourself or someone else.**

SAFETY GUIDELINES

- **Always use appropriate personal protective equipment.**
- **Always keep children and unauthorised people away from the work area.**
- **Always keep the work area clean and tidy.**
- **Always stay alert at all times.**
- **Always work on the vehicle on a hydraulic ramp or support car on axle stands.**
- **Always refill with the correct grade of brake fluid as specified in the manufacturers owners/service manual.**
- **Always dispose of used brake fluid in the correct manner as required by your local waste disposal authority in accordance with the Control of Pollution Act 1974.**
- **Do not use a compressed air gun to clean out brake components as the brake dust is extremely harmful.**
- **Do not modify this equipment in any way.**

INTRODUCTION

This kit is suitable for use on disc brake calipers on some European and Japanese cars and motorbikes. Designed for rewind and push back pistons, it is an essential tool for caliper servicing and makes brake pad replacement quick and easy.

OPERATING INSTRUCTIONS

Always refer to the manufacturers workshop manuals when undertaking brake work.

Kennedy recommend that all brake caliper pistons are wound back into the caliper using the following method:

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 caliper to hang free by its flexible hose.

4. Remove the worn brake pads after first disconnecting the wear warning wires if these are fitted.
5. Now select the appropriate drive key to suit the piston - Fig.1. 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:

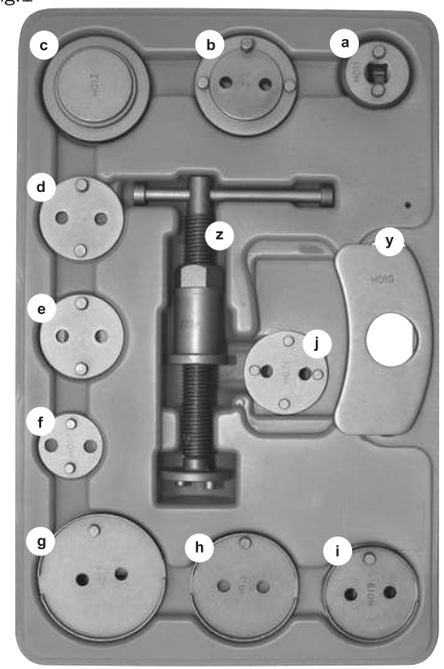
Some pistons need to be rewound under pressure. For this purpose, use the reaction plate (y)

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

7. Slip the reaction plate over one arm of the T-bar Figs.2-4 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 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.

IDENTIFICATION

Fig.1



ASSEMBLY

Fig.2



Fig.3



Fig.4



Fig.5



KEY

Item	PART	DESCRIPTION	EXAMPLE APPLICATIONS
a	H011	32mm Drive Key 3/8" Sq. Drive	For use with Ratchet Wrench were minimum force is necessary, i.e. Mazda 323,626 - Toyota Celica, Corolla GT & MR2
b	H012	50mm Flanged Drive Key with Extended Pin	Citroen XM & Xantia
c	H013	35/42/53mm Variable size Drive Key	Alfa Romeo, BMW, Ford, Jaguar, Mercedes Benz, Mitsubishi, Nissan, Rover Toyota, Vokswagen, Volvo
d	H014	40mm Drive Key with extended pins	Nissan Bluebird and Primera 2 Litre
e	H015	40mm Drive Key	Audi 80/90/V8, Ford Sierra (ABS rear)
f	H016	30mm Drive Key	Alfa Romeo 164 2Litre, Saab 900
g	H017	60mm Drive Key with single pin	General Motors
h	H018	52mm Flanged Drive Key	General Motors
i	H019	45mm Flanged Drive Key	General Motors
j	H021	40mm Drive Key with 4 pins	Toyota
y	H010	Reaction Plate	
z	H020-R	Right Handed Force Screw	