

# K53 & K54 AIR OPERATED POWER PISTOL

## INSTRUCTION MANUAL

### INTRODUCTION

Thank you for purchasing a Macnaught air operated Power Pistol.

The Macnaught Power Pistol models K53(450g) and K54(400g) are single shot air operated grease guns, suitable for bulk, cartridge or grease pump filling with greases up to and including NLGI No.2 consistency.

A wide range of Macnaught greasing accessories including Flexible Extensions, Needle Point Couplers, Adaptors and Button Head Couplers are available from your Macnaught dealer.

Please read and retain this instruction sheet to assist you in assembly and maintenance of this product.

### OPERATION

The Power-Pistol injects a single shot of grease at each pull of the trigger, enabling the user to control the amount of grease delivered. The trigger must be completely pulled back to achieve maximum pressure. Exhaust air will exit behind the trigger.

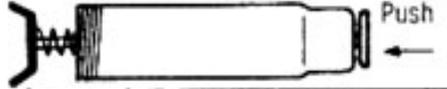
#### CAUTION

Always disconnect the air supply line before servicing

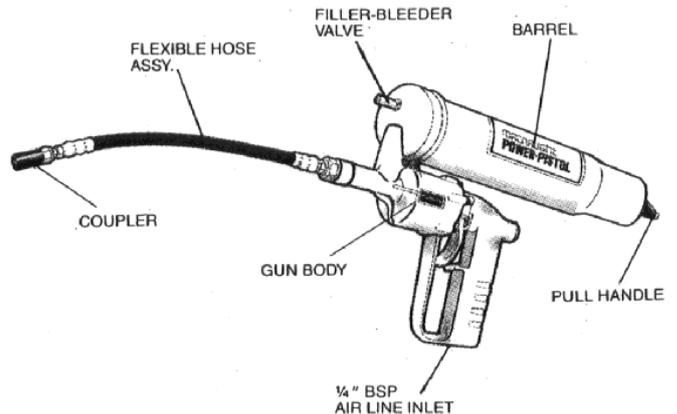
### SELECT FOLLOWER POSITION

**Note:**  
Refer to Fig 1 for the correct follower position

#### How to select Follower position

Grease	Follower Position
BULK	 Push
CART-RIDGE	 Push

(Fig 1)



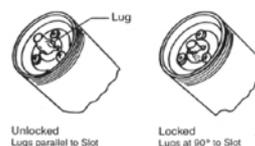
### HOW TO BULK FILL BY SUCTION

**Note:** Select the correct follower position (see Fig 1)

- 1) Lock follower (Fig 2)
- 2) Unscrew the barrel from the gun body 2 to 3 turns.
- 3) Pull the rod back and retain in barrel slot (Fig.3)
- 4) Unscrew the barrel from the gun body.
- 5) Release the follower rod from the barrel slot.
- 6) Insert the open end of the barrel into the grease, pull the rod back slowly, and at the same time push the barrel into the grease. Pull back the rod until the groove in the rod appears then push the rod into the barrel slot.
- 7) Wipe clean and screw the gun body assembly onto the barrel.
- 8) Unlock the follower rod from the barrel and apply light pressure on the pull handle (Fig.5), at the same time press the ball in the filler bleeder until grease appears.
- 9) Connect the air and pull the trigger several times. If grease does not appear at the coupler repeat step 8.
- 10) Unlock the follower rod and push the rod into the barrel.

**Note:** Should the gun fail to deliver grease refer to the Trouble Shooting Guide on page 3.

How to lock Follower



(Fig 2)



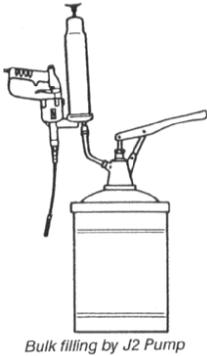
Bulk filling by Suction

(Fig 3)

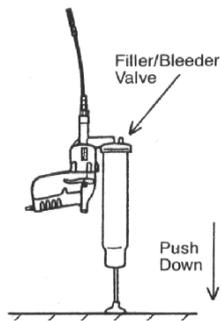
## FAST FILLING WITH A J2 GREASE PUMP

Note: Select the correct follower position (see Fig 1).

- 1) Lock the follower rod (Fig 2).
- 2) Slide the filler bleeder into the nozzle on the pump (Fig 4).
- 3) Fill with grease until the groove in the rod is visible at the end of the barrel.
- 4) Repeat steps (8), (9), (10) refer (How to bulk Fill).



(Fig 4)



(Fig 5)

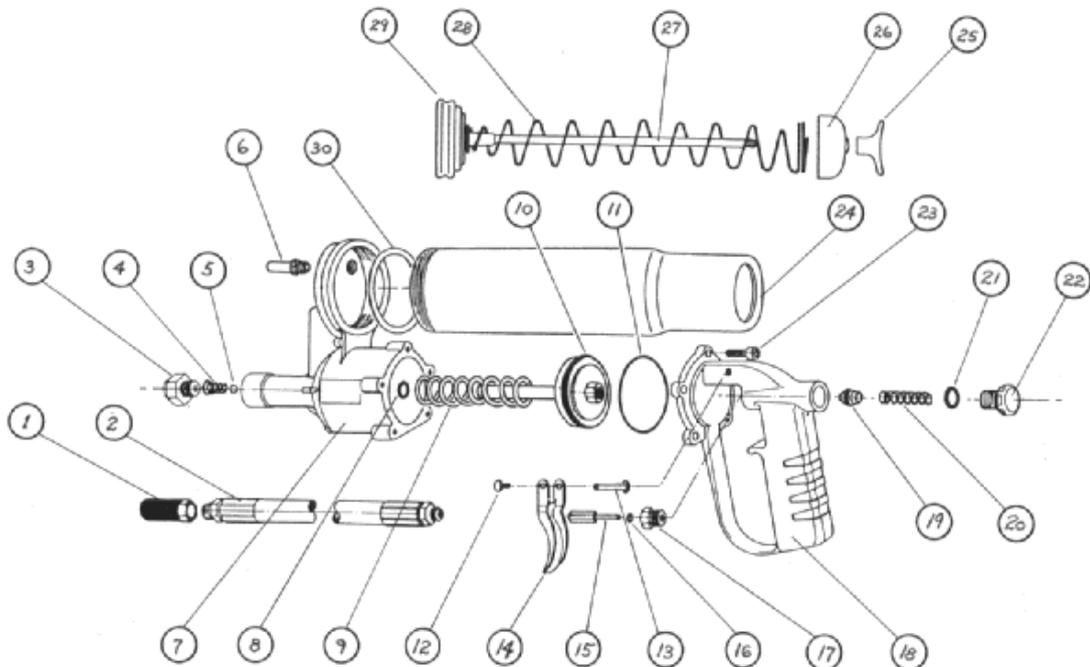
## HOW TO INSTAL A CARTRIDGE

Note: Select the correct follower position (see Fig 1).

Repeat steps (1) to (2) above

- 1) Pull the follower rod back until the rod groove can be pulled into the barrel slot.
- 2) Remove the large end cap from the cartridge.
- 3) Slide the large open end first into the barrel.
- 4) Remove the small end cap from the cartridge.
- 5) Screw the gun body assembly onto the barrel.
- 6) Repeat steps (8), (9), (10) as above.

## PARTS DIAGRAM K54 Diagram shown



(Fig 6)

\*Note: For easier model identification:

## SPARE PARTS LIST

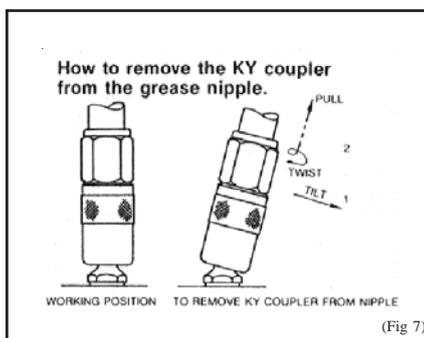
Models manufactured before April 2003 were powder coated dark grey in colour

Models manufactured after April 2003 are light grey in colour

		ORDER FOR REPLACEMENT			
ITEM	PART NO	PART OR SET	PART OR SET	CONTAINED IN KIT	PART NAME
		OLD MODEL PART NO'S	NEW MODEL PART NO'S		
		K53-1K	K53-1K	(KIT A)	OVERHAUL KIT
		K27-2K (for K53 only)	K27-2K (for K53 only)	(KIT B)	FOLLOWER KIT
		KF14A (K54 only)	KF14A (K54 only)	(KIT B)	FOLLOWER KIT
1	KY	KY	KY		COUPLER
2	KF9	KF9	KF9		FLEXIBLE EXTENTION
3	KP50			A	OUTLET VALVE BODY
4	KP51	KP52s	KP52s	A	OUTLET VALVE SPRING
5	N402			A	STEEL BALL
6	KF85			A	FILLER BLEEDER ASSEMBLY
7	KP67	KP67s	KP02s		BODY CASTING (K53 only)
7	KP100	KP100s	KP03s		BODY CASTING (K54 only)
8	PA49			A	O'RING
9	KP80	KP85s	KP30s	A	PISTON SPRING
10	KP81				PISTON ASSEMBLY
11	KP69			A	AIR MOTOR SEAL RING
12	KP78			A	TRIGGER PIVOT SCREW
13	KP59			A	TRIGGER PIVOT
14	KP60	KP58s	KP58s	A	TRIGGER
15	KP58			A	AIR VALVE STEM
16	BS006			A	O'RING
17	KP57				GLAND NUT
18	KP61	KP61s	KP61s		HANDLE CASTING
19	KP82			A	AIR VALVE
20	KP83	KP83s	KP83s	A	AIR VALVE SPRING
21	BS014			A	O'RING
22	KP84			A	RETAINER CAP
23	N10	N10s	N10s	A	SOCKET HEAD CAP SCREW
24	KF100				BARREL (K53 only)
24	KP76				BARREL (K54 only)
26	KF102	KF100s (for K53 only)	KF110s (for K53 only)		END CAP (K53 only)
26	KF26	KP76s (for K54 only)	KP27s (for K54 only)		END CAP (K54 only)
30	N161			B	SEAL WASHER (K53 only)
30	N158			B	SEAL WASHER (K54 only)
25	KB13				PULL HANDLE
27	KF30	KF30s	KF30s		FOLLOWER ROD
28	KF104				FOLLOWER SPRING
29	K27-2K	K27-2K (for K53 only)	K27-2K (for K53 only)	B	FOLLOWER ASSEMBLY (K53 only)
29	KF14As	K14As (for K54 only)	K14As (for K54 only)	B	FOLLOWER ASSEMBLY (K54 only)

## TROUBLE SHOOTING GUIDE

TROUBLE	CAUSE	REMEDY
Gun fails to deliver grease	a) Air trapped in the pressure chamber	a) Disconnect Flexible hose assembly (2). Apply pressure to the pull handle (25), refer to Fig 6. Pull the trigger until grease starts flowing. Note: It may be necessary to remove the outlet body to release the air in the pressure chamber. When grease appears at the gun outlet ensure that the ball (5) and spring (4) is in place then replace the outlet body.(3)
	b) Dirt under the outlet ball (5)	Clean ball and seat
Gun fails to deliver the correct grease pressure	a) Piston assembly (10) faulty. (check for escaping air through the vent holes in the body (7).	Replace Piston assembly
	b) O'ring (16) damaged. (check for air escaping from under the trigger).	Replace with KP58s



## Technical Specifications:

Pressure Ratio	50:1
Air Supply Pressure Range	275kPa (40psi) to 825kPa (120psi)
Recommended Air Pressure	620 kPa (90psi)
Compressor Size	0.026 m <sup>3</sup> /min. (1 cfm or above)
Air Inlet Thread	¼ " BSP.
Output per shot	1 cm <sup>3</sup> (approx)



Macnaught Pty Ltd  
 PO Box 90 Arncliffe NSW 2205 Australia  
 Telephone (02) 9567 0401  
 Facsimile (02) 9597 7773  
 Email: sales@macnaught.com.au  
 Web: www.macnaught.com.au



## macnaught warranty

1. Macnaught Pty Ltd ("Macnaught") warrants that all products manufactured by Macnaught and/or supplied by Macnaught under the "Macnaught" brand, excluding M-Series positive displacement meters ("Meters") and components subject to wear, will be free from any defects caused by faulty materials or workmanship ("Warranty") for a period of 5 years from the date of purchase of the product.
2. For products (excluding Meters) which carry the "Macnaughtdesign" endorsement, an additional Warranty period of 5 years applies to all mechanical components (excluding electronic and electrical components), giving a total Warranty period of 10 years.
3. For Meters, the Warranty period is 12 months from the date of purchase of the product.
4. For components contained in all products which are usually subject to wear from normal operation of the products (such as o-rings, seals, springs, hoses and batteries), the Warranty period is 12 months from the date of purchase of the relevant product.
5. For products and components which are not manufactured by Macnaught and are supplied by Macnaught under a brand name other than "Macnaught", the Warranty period is the longer of 12 months from the date of purchase of the relevant product and the period of the manufacturer's warranty.
6. The warranties contained in clauses 1, 2, 3, 4 and 5 above are conditional on the purchaser, during the relevant Warranty period:
  - a. delivering to Macnaught a detailed notice setting out full details of any defect in any product and details of the date and place of purchase (together with copies of purchase receipts and/or other supporting documents), and
  - b. at the purchaser's own cost, returning the defective product to the nearest authorised Macnaught service centre.
7. Subject to compliance by the purchaser with clause 6, Macnaught shall, at its option, repair or replace any product or component found defective by its inspection by reason of faulty materials or workmanship of Macnaught.
8. This Warranty does not cover the failure of products, parts or components which, in the sole judgment of the Macnaught, arises other than from faulty materials or workmanship of Macnaught, including misuse, abrasion, corrosion, negligence, accident, substitution of non-Macnaught parts, unauthorised modification, improper use, storage or handling, faulty installation or tampering by the purchaser or any third party.
9. If Macnaught's inspection discloses no defect in material or workmanship, repair or replacement and return (at Macnaught's sole option) will be made at customary charges, which will be advised to the purchaser.
10. Macnaught's liability and the purchaser's rights under this Warranty shall be limited to the repair or replacement of defective products or components and particular, shall not extend to any direct, special, indirect or consequential damage or losses of any other warranties.
11. The foregoing Warranty supersedes, voids and is in lieu of any other warranties. This Warranty does not form part of, nor does it constitute, a contract between Macnaught and the end-user or purchaser. It is additional to any warranty given by the seller of the products. This Warranty does not exclude, limit, restrict or modify the non-excludable rights or remedies conferred upon the end-user or purchaser, or the non-excludable duties or liabilities imposed on the seller or Macnaught, by Part V, Division 2, 2A, and Part VA of the Trade Act 1974 (Commonwealth) or other rights conferred on the end-user or purchaser or duties or liabilities imposed upon Macnaught.