

# Fuji USER MANUAL



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## OIL PULSE WRENCHES

### MODELS : FLT-4S-3, -4SD-3, -30

FLT-4S-3 P



FLT-4S-3 BF EC



FLT-4S-3

FLT-4SD-3



FLT-4SD-3 EC



FLT-4SD-30



FLT-4SD-3, -30

〈BIT SIZE〉

|  | FLT-4SD-3 | FLT-4SD-30 |
|--|-----------|------------|
|  | A : 9.5mm | A : 13mm   |
|  | B : 12mm  | B : 16mm   |

### SPECIFICATIONS

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| Model      | Bolt Size | Recommended Torque Range<br>(0.5~0.63MPa) | Rotational Frequency | Square Drive Size | Bit Shank Size | Air Consumption<br>(At Load) | Mass<br>(without socket) | Overall Length<br>(without socket) | Air Inlet Thread Size | Air Hose Size |
|------------|-----------|-------------------------------------------|----------------------|-------------------|----------------|------------------------------|--------------------------|------------------------------------|-----------------------|---------------|
|            | mm        | N·m                                       | min <sup>-1</sup>    | mm                | mm             | m <sup>3</sup> /min          | kg                       | mm                                 |                       | mm            |
| FLT-4S-3   | M5~M6     | 5.5~11                                    | 4,300                | 9.5               | —              | 0.33                         | 0.88                     | 222                                | Rc 1/4                | 6.3           |
| FLT-4SD-3  | M5~M6     | 5.5~11                                    | 4,300                | —                 | 6.35           | 0.33                         | 0.88                     | 222                                | Rc 1/4                | 6.3           |
| FLT-4SD-30 | M5~M6     | 5.5~11                                    | 4,300                | —                 | 6.35           | 0.33                         | 0.88                     | 222                                | Rc 1/4                | 6.3           |

The performance figures are at 0.63MPa (6.3bar).

Refer to "The Instructions and Warning for Safety Use" enclosed in each tool box.

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ASSEMBLY TOOLS

ABRASIVE TOOLS

DRILLS / TAPPERS

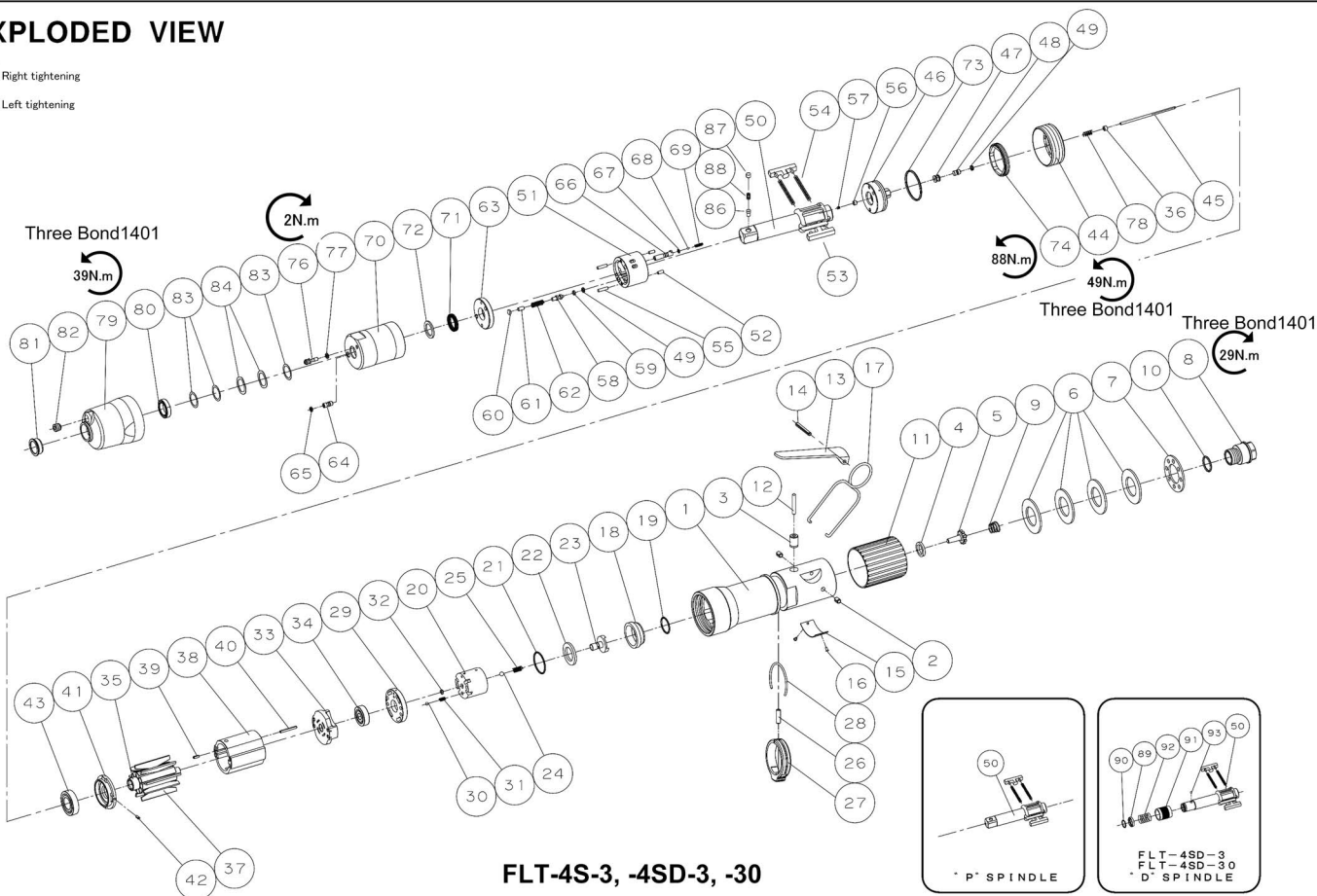
PERCUSSIVE TOOLS

AIR MOTORS

OTHER PRODUCTS

# MODELS : FLT-4S-3, -4SD-3, -30

## EXPLODED VIEW



## PARTS LIST

| Index No.     | Fuji No.    | Parts No.  | Parts Name               | Qty | Index No. | Fuji No.    | Parts No.  | Parts Name               | Qty | Index No.                                                                       | Fuji No.    | Parts No.  | Parts Name             | Qty |
|---------------|-------------|------------|--------------------------|-----|-----------|-------------|------------|--------------------------|-----|---------------------------------------------------------------------------------|-------------|------------|------------------------|-----|
| FLT-4S-3 <BF> |             |            |                          |     | 63        | W-371589-00 | 5412058466 | Oil Cylinder Lower Plate | 1   | 37                                                                              | W-369208-00 | 5412058424 | Rotor Blade            | 9   |
| 1             | W-394201-00 | 5412060649 | Housing                  | 1   | 64        | W-371385-00 | 5412058460 | Adjusting Screw          | 1   | 38                                                                              | W-394209-00 | 5412060650 | Cylinder               | 1   |
| 2             | SP-46       | 5412056306 | Spring Pin               | 2   | 65        | O-S2.5F(H)  | 5412055227 | "O" Ring (HNBR80)        | 1   | (39)                                                                            | SP-26       | 5412056272 | Spring Pin             | 1   |
| 3             | W-299109-00 | 5412057808 | Throttle Valve Bushing   | 1   | 66        | W-369380-00 | 5412060675 | Adjusting Spindle        | 1   | 40                                                                              | SP-218      | 5412056268 | Spring Pin             | 1   |
| 4             | W-396115-00 | 5412104068 | Throttle Valve Sheet     | 1   | 67        | O-2.97X0.63 | 5412055302 | "O" Ring                 | 1   | 41                                                                              | W-394211-00 | 5412060652 | Cylinder Lower Plate   | 1   |
| 5             | W-299110-00 | 5412057809 | Throttle Valve           | 1   | 68        | B-2         | 5412050914 | Ball                     | 1   | (42)                                                                            | SP-25       | 5412056271 | Spring Pin             | 1   |
| 6             | W-394237-00 | 5412060653 | Muffler Pad              | 4   | 69        | W-369595-00 | 5412058427 | Torque Adjusting Spring  | 1   | 43                                                                              | BB-6901     | 5412051041 | Ball Bearing           | 1   |
| 7             | W-394250-00 | 5412060654 | Exhaust Cover            | 1   | 70        | W-370592-00 | 5412058437 | Cylinder Case            | 1   | 44                                                                              | W-371255-00 | 5412058455 | Motor Fastening Nut    | 1   |
| 8             | W-394171-00 | 5412060669 | Inlet Joint              | 1   | 71        | O-KX12(H)   | 5412055181 | "X" Ring (HNBR80)        | 1   | 45                                                                              | W-394753-00 | 5412060658 | Piston Rod             | 1   |
| 9             | D-001117-00 | 5412051234 | Throttle Valve Spring    | 1   | 72        | BR-112B     | 5412105373 | Back-Up Ring             | 1   | 78                                                                              | W-394759-00 | 5412060664 | Return Spring          | 1   |
| 10            | O-S12.5     | 5412055220 | "O" Ring                 | 1   | 73        | O-S27.5F(H) | 5412055236 | "O" Ring (HNBR80)        | 1   | 83                                                                              | W-070169-01 | 5412056752 | Reverse Valve Washer   | 3   |
| 11            | W-394557-00 | 5412060674 | Protector                | 1   | 74        | W-371711-00 | 5412058476 | Cylinder Cover           | 1   | 84                                                                              | WW-12       | 5412058756 | Waved Washer           | 2   |
| 12            | NR-321.5FR  | 5412060670 | Needle Roller            | 1   | 76        | W-371226-00 | 5412058454 | Oil Plug                 | 1   | It is common with FLT-4S-3 <BF> excluding the parts below.                      |             |            |                        |     |
| 13            | M-073121-00 | 5412054786 | Throttle Valve Lever     | 1   | 77        | O-S2F(H)    | 5412055229 | "O" Ring (HNBR80)        | 1   | FLT-4S-3 <P>                                                                    |             |            |                        |     |
| 14            | SP-325      | 5412056285 | Spring Pin               | 1   | *86       | W-252583-00 | 5412057217 | Retainer Button (F)      | 1   | —                                                                               | W-369021-08 | 5412105420 | Oil Cylinder Ass'y <P> | 1   |
| —             | W-370033-00 | 5412076375 | Front Case Ass'y         | 1   | *87       | W-252551-00 | 5412057216 | Plug                     | 1   | 50                                                                              | W-370438-00 | 5412058434 | Spindle <P>            | 1   |
| 79            | W-370593-00 | 5412058438 | Front Case               | 1   | *88       | W-252541-00 | 5412057213 | Button Retainer Spring   | 1   | FLT-4SD-3                                                                       |             |            |                        |     |
| 80            | BB-6701     | 5412051031 | Ball Bearing             | 1   | 15        | NP-1158     | 5412060676 | Name Plate               | 1   | —                                                                               | W-369021-09 | 5412105421 | Oil Cylinder Ass'y     | 1   |
| 81            | W-302490-01 | 5412057878 | Spindle Bushing          | 1   | 16        | NPN-0X3.2   | 5412055056 | Screw Rivet              | 2   | 50                                                                              | W-370438-02 | 5412060305 | Spindle                | 1   |
| 82            | PL-1/16     | 5412055397 | Plug                     | 1   | 17        | W-394650-00 | 5412060680 | Hanger (Vertical)        | 1   | 89                                                                              | W-305388-00 | 5412057911 | Spring Holder          | 1   |
| —             | W-369021-15 | 5412105760 | Oil Cylinder Ass'y <BF>  | 1   | 18        | W-394641-00 | 5412060656 | Stop Valve Front Cover   | 1   | 90                                                                              | W-305440-00 | 5412057912 | Ring                   | 1   |
| 46            | W-371588-00 | 5412058465 | Oil Cylinder Upper Plate | 1   | 19        | O-S14       | 5412055221 | "O" Ring                 | 1   | 91                                                                              | W-305625-00 | 5412057921 | Bit Cover              | 1   |
| 47            | W-371104-00 | 5412058442 | Bushing                  | 1   | 20        | W-394131-00 | 5412060646 | Reverse Valve            | 1   | 92                                                                              | W-305664-00 | 5412057922 | Finder Spring          | 1   |
| 48            | W-371720-00 | 5412058478 | Piston                   | 1   | 21        | O-S20       | 5412055230 | "O" Ring                 | 1   | 93                                                                              | B-3         | 5412050915 | Ball                   | 1   |
| 49            | O-S1.4F(H)  | 5412055216 | "O" Ring (HNBR80)        | 2   | 22        | W-347115-00 | 5412058365 | Throttle Valve Sheet     | 1   | FLT-4SD-30                                                                      |             |            |                        |     |
| 50            | W-370438-01 | 5412060433 | Spindle <BF>             | 1   | 23        | W-394640-00 | 5412060655 | Stop Valve               | 1   | —                                                                               | W-369021-10 | 5412105422 | Oil Cylinder Ass'y     | 1   |
| 51            | W-370587-00 | 5412058435 | Oil Cylinder             | 1   | 24        | B-4         | 5412050919 | Ball                     | 1   | 50                                                                              | W-370438-03 | 5412076382 | Spindle                | 1   |
| 52            | NR-2.56     | 5412055084 | Needle Roller            | 2   | 25        | W-395643-01 | 5412076672 | Stop Valve Spring        | 1   | 89                                                                              | W-305388-00 | 5412057911 | Spring Holder          | 1   |
| 53            | W-370590-00 | 5412058436 | Spindle Blade            | 2   | 26        | NR-413.5    | 5412055137 | Needle Roller            | 1   | 90                                                                              | W-305440-00 | 5412057912 | Ring                   | 1   |
| 54            | W-371591-00 | 5412058468 | Blade Spring             | 2   | 27        | W-216135-00 | 5412057086 | Reverse Valve Lever      | 1   | 91                                                                              | W-305625-00 | 5412057921 | Bit Cover              | 1   |
| 55            | NR-2.510.5  | 5412055078 | Needle Roller            | 2   | 28        | W-216165-00 | 5412057087 | Stop Ring                | 1   | 92                                                                              | W-305664-00 | 5412057922 | Finder Spring          | 1   |
| 56            | W-362178-00 | 5412058392 | Plunger                  | 1   | 29        | W-394133-00 | 5412060647 | Reverse Valve Sheet      | 1   | 93                                                                              | B-3         | 5412050915 | Ball                   | 1   |
| 57            | W-362179-00 | 5412058393 | Plunger Spring           | 1   | 30        | B-3         | 5412050915 | Ball                     | 1   | Service Kit                                                                     |             |            |                        |     |
| 58            | W-371712-00 | 5412058477 | Damper                   | 1   | 31        | G-005124-00 | 5412053691 | Knock Spring             | 1   | —                                                                               | W-369093-00 | 5412105801 | Service Kit            | 1   |
| 59            | BR-S2.5FT2  | 5412051083 | Back-Up Ring             | 1   | 32        | O-S2        | 5412055226 | "O" Ring                 | 1   | INC #37, 49, 52, 54, 55, 56, 57, 59, 60, 65, 67, 68, 69, 71, 72, 73, 77, 83, 84 |             |            |                        |     |
| 60            | W-371308-00 | 5412058457 | Spacer                   | 1   | 33        | W-394210-00 | 5412060651 | Cylinder Upper Plate     | 1   | —                                                                               | OIL-11-4L   | 5412105495 | Oil (4liter)           | 1   |
| 61            | NR-36       | 5412055122 | Needle Roller            | 1   | 34        | BB-EE2      | 5412050936 | Ball Bearing             | 1   | The related parts are shown in thick frame.                                     |             |            |                        |     |
| 62            | W-370771-00 | 5412058441 | Spring                   | 1   | 35        | W-369207-00 | 5412058423 | Rotor                    | 1   | #1, #38 and #41 are supplied together with parts shown in ( ).                  |             |            |                        |     |
|               |             |            |                          |     | 36        | W-394256-00 | 5412060659 | Space Collar             | 1   | Specify parts number and quantity when ordering.                                |             |            |                        |     |

\* These parts are for "BF" only.

### Standard Accessories

| AC No.  | Parts No.  | Description           | Qty |
|---------|------------|-----------------------|-----|
| F-701-1 | 5412052204 | 1.5mm Hex. Pin Wrench | 1   |
| F-704   | 5412052207 | 4mm Hex. Pin Wrench   | 1   |

### Optional Part (for NPT Inlet)

| AC No.    | Parts No.  | Description                    |
|-----------|------------|--------------------------------|
| IB-202N00 | 5412054475 | Inlet Bushing (Rc1/4 → NPT1/4) |