

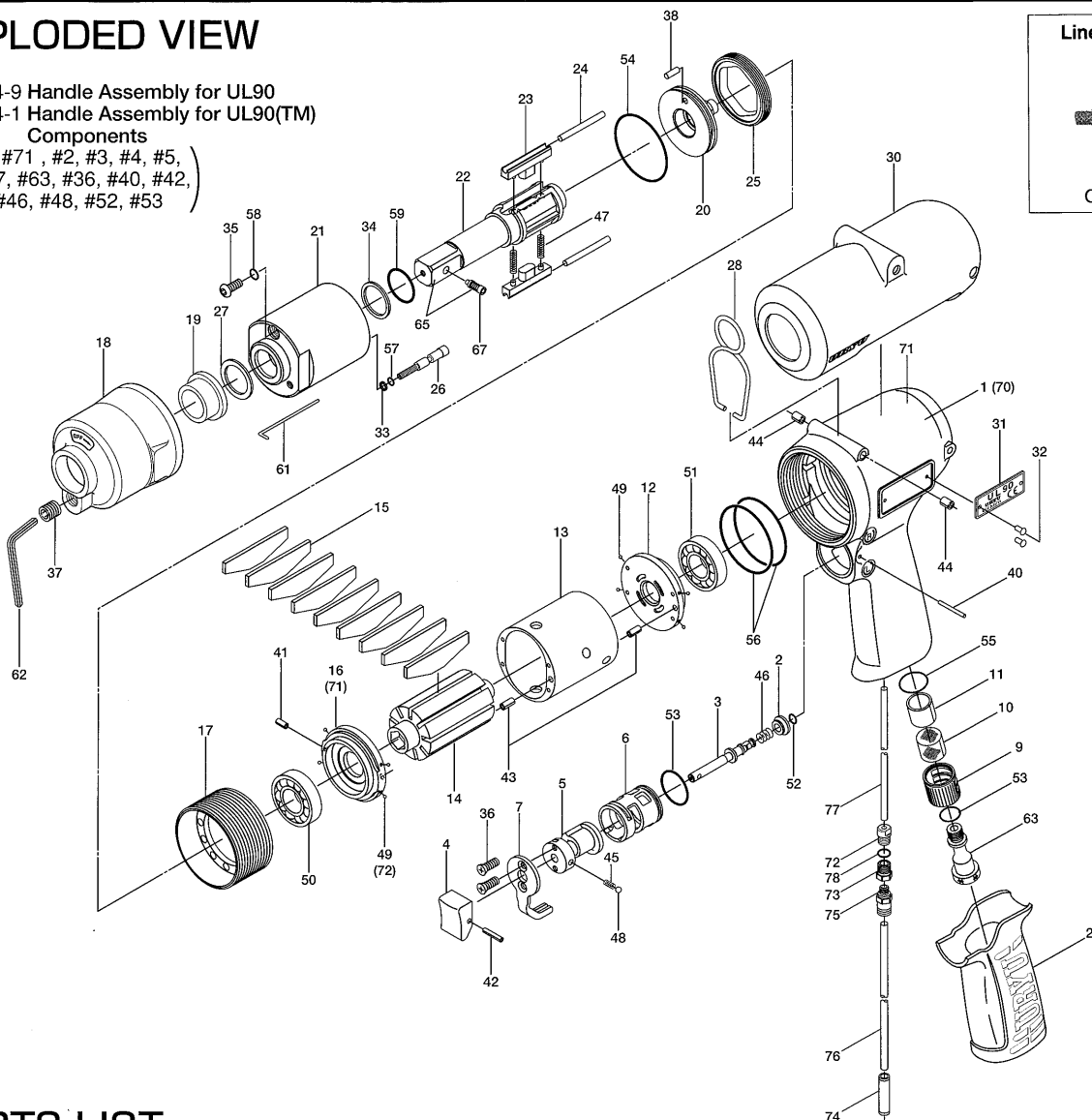
# UL90 OIL-PULSE WRENCH

## EXPLODED VIEW

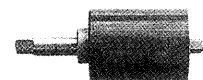
143-984-9 Handle Assembly for UL90  
852-544-1 Handle Assembly for UL90(TM)

### Components

(#1 or #71, #2, #3, #4, #5,  
#6, #7, #63, #36, #40, #42,  
#45, #46, #48, #52, #53)



### Liner Casing assembly



Code No. 891-471-1

## PARTS LIST

| Index No. | Code No.  | Parts Name              | Quantity | Index No. | Code No.  | Parts Name                      | Quantity | Index No.                  | Code No.  | Parts Name                     | Quantity |
|-----------|-----------|-------------------------|----------|-----------|-----------|---------------------------------|----------|----------------------------|-----------|--------------------------------|----------|
| # 1       | 143-025-9 | ○ Handle                | 1        | #28       | 174-790-0 | Suspension Bail                 | 1        | #53                        | 990-914-0 | ○ O-Ring (SNS-16)              | 2        |
| # 2       | 147-100-8 | ○ Valve                 | 1        | #29       | 147-842-2 | Handle Cover                    | 1        | #54                        | 990-915-0 | ○ O-Ring (SNS-29)              | 1        |
| # 3       | 147-104-8 | ○ Valve Rod             | 1        | #30       | 143-840-9 | Casing Protector                | 1        | #55                        | 990-919-0 | ○ O-Ring (SNS-22)              | 1        |
| # 4       | 147-107-2 | ○ Valve Lever           | 1        | #31       | 143-924-9 | Name Plate                      | 1        | #56                        | 990-932-0 | ○ O-Ring (SNS-42)              | 2        |
| # 5       | 147-210-8 | ○ Reverse Valve         | 1        | #32       | 930-205-0 | Driver Rivet (No.0×2.6)         | 2        | #57                        | 990-970-0 | ○ O-Ring (SNS-2)               | 1        |
| # 6       | 147-211-8 | ○ Reverse Valve Bushing | 1        | #33       | 944-002-0 | Supporting Ring (2.6×4.5×1)     | 1        | #58                        | 990-971-0 | ○ O-Ring (SNS-3)               | 1        |
| # 7       | 147-212-8 | ○ Reverse Lever         | 1        | #34       | 944-215-0 | Supporting Ring (16×19.9×1.5)   | 1        | #59                        | 992-021-0 | SU-Ring (Q16) (NTN)            | 1        |
| #63       | 147-091-8 | ○ Air Inlet Bushing     | 1        | #35       | 945-942-0 | Hexagon Round Head Bolt (M4×6)  | 1        | #65                        | 891-556-1 | Anvil Assembly (P)             | 1        |
| # 9       | 147-780-9 | Exhaust Stack           | 1        | #36       | 948-423-0 | ○ Allen Flush Head Screw (M3×6) | 2        | #67                        | 891-304-1 | Socket Pin Assembly (1/2)      | 1        |
| #10       | 147-042-8 | Silencer                | 1        | #37       | 966-099-0 | Allen Head Plug (NPT1/16)       | 1        | <b>PARTS FOR (TM)-TYPE</b> |           |                                |          |
| #11       | 147-835-8 | Filter (K100)           | 1        | #38       | 970-204-0 | Pin (3×6)                       | 1        | #70                        | 852-526-1 | Handle                         | 1        |
| #12       | 143-285-9 | Rear Plate              | 1        | #40       | 971-125-0 | ○ Pin (2×25)                    | 1        | #71                        | 852-531-1 | Front Plate                    | 1        |
| #13       | 143-286-9 | Cylinder                | 1        | #41       | 973-006-0 | Roll Pin (2×6)                  | 1        | #72                        | 851-967-1 | Plug                           | 1        |
| #14       | 147-287-8 | Rotor                   | 1        | #42       | 973-014-0 | ○ Roll Pin (2×14)               | 1        | #73                        | 851-955-1 | Connecting Screw               | 1        |
| #15       | 147-288-8 | Blade (PC)              | 9        | #43       | 973-068-0 | Roll Pin (2.5×8)                | 2        | #74                        | 933-250-0 | One touch Connector (SLS-04)   | 1        |
| #16       | 143-289-9 | Front Plate             | 1        | #44       | 973-308-0 | Roll Pin (5×8)                  | 2        | #75                        | 933-281-0 | One touch Connector (KJH04-M5) | 1        |
| #17       | 143-036-9 | Hammer Casing Connector | 1        | #45       | 976-006-0 | ○ Spring (3×5)(0.4)             | 1        | #76                        | 935-350-0 | Polyurethane Hose (F-1504)     | 1        |
| #18       | 143-439-9 | Front Casing            | 1        | #46       | 976-643-0 | ○ Spring (7.5×9.7)(0.9)         | 1        | #77                        | 935-358-0 | Polyurethane Hose (TU-0212)    | 1        |
| #19       | 147-328-8 | Anvil Bushing           | 1        | #47       | 976-794-0 | Spring (3.8×33)(0.5) WPC        | 2        | #78                        | 990-320-0 | ○ O-Ring (ARP568-003)          | 1        |
| #20       | 143-901-9 | Rear Liner Plate        | 1        | #48       | 981-002-0 | ○ Ball (1/8)                    | 1        | <b>ACCESSORIES</b>         |           |                                |          |
| #21       | 143-902-9 | Liner                   | 1        | #49       | 981-045-0 | Ball (1.5mm)                    | 8        | #61                        | 939-091-0 | Allen Wrench (1.5)             | 1        |
| #22       | 143-319-9 | Anvil                   | 1        | #50       | 982-903-0 | Ball Bearing (6902)             | 1        | #62                        | 939-105-0 | Allen Wrench (4)               | 1        |
| #23       | 147-440-9 | Driving Blade           | 2        | #51       | 982-949-0 | Ball Bearing (16001)            | 1        | #63                        | 940-114-0 | Air Hose Nipple (NPT1/4×3/8)   | 1        |
| #24       | 147-974-8 | Roller(2.5×30)          | 2        | #52       | 990-306-0 | ○ O-Ring (ARP-568-004) (H)      | 1        |                            |           |                                |          |
| #25       | 143-906-9 | Liner Casing Cover      | 1        |           |           |                                 |          |                            |           |                                |          |
| #26       | 143-970-9 | Relief Valve            | 1        |           |           |                                 |          |                            |           |                                |          |
| #27       | 147-327-8 | Anvil Front Spacer      | 1        |           |           |                                 |          |                            |           |                                |          |

When ordering spare parts, please specify tool type, code number and parts name.

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