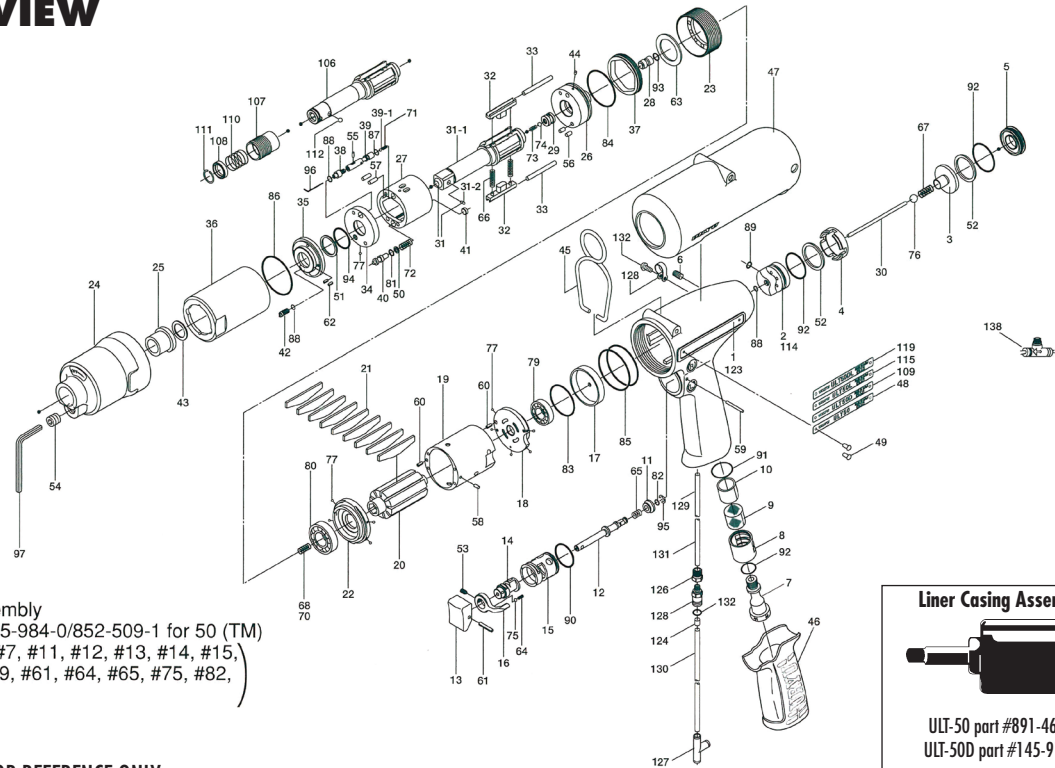
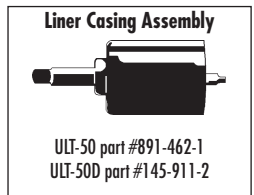


# ULT-50, ULT-50D SERIES OIL-PULSE WRENCHES

## EXPLODED VIEW



Handle Assembly  
Code No. 145-984-0/852-509-1 for 50 (TM)  
(#1 or #123, #7, #11, #12, #13, #14, #15,  
#16, #53, #59, #61, #64, #65, #75, #82,  
#90)



## PARTS LIST — FOR REFERENCE ONLY

| Index Number | Part Number | Description                | Qty. | Index Number | Part Number | Description                         | Qty. | Index Number                             | Part Number | Description                    | Qty. |
|--------------|-------------|----------------------------|------|--------------|-------------|-------------------------------------|------|--|-------------|--------------------------------|------|
| 1            | 188-025-3   | Handle                     | 1    | 41           | 145-908-7   | Accumulator Cover                   | 1    | 85                                       | 990-337-0   | O-Ring(JW1 530-27)             | 2 ▲  |
| 2            | 145-253-0   | Shut-off Valve Bushing     | 1    | 42           | 194-742-0   | Oil Plug                            | 1    | 86                                       | 990-605-0   | O-Ring (25 x1.45)              | 1 ●  |
| 3            | 145-254-6   | Shut-off Valve             | 1    | 43           | 145-327-7   | Anvil Front Spacer                  | 1    | 87                                       | 990-621-0   | O-Ring (3.8 x1.8 x 1.0)        | 1 ●  |
| 4            | 145-684-6   | Cushion Spacer             | 1    | 44           | 150-064-5   | Plug                                | 1    | 88                                       | 990-900-0   | O-Ring (SNS-2)                 | 3 ●  |
| 5            | 145-019-6   | Valve Cover                | 1    | 45           | 174-790-0   | Suspension Ring                     | 1    | 89                                       | 990-901-0   | O-Ring (SNS-3)                 | 1    |
| 6            | 150-108-5   | Valve Plug                 | 1    | 46           | 147-842-2   | Handle Cover                        | 1    | 90                                       | 990-912-0   | O-Ring (SNS-14)                | 1    |
| 7            | 147-091-2   | Air Inlet Bushing          | 1    | 47           | 145-840-7   | Casing Cover                        | 1    | 91                                       | 990-914-0   | O-Ring (SNS-16)                | 1    |
| 8            | 147-780-3   | Exhaust Stack              | 1    | 48           | 145-924-0   | Name Plate (ULT-50)                 | 1    | 92                                       | 990-916-0   | O-Ring (SNS-18)                | 3    |
| 9            | 147-042-2   | Silencer                   | 1    | 49           | 930-205-0   | Pin (No. 0 x 2.6)                   | 2    | 93                                       | 990-305-0   | O-Ring (ARP568-003KS)          | 1 ●  |
| 10           | 147-835-3   | Filter (K200)              | 1 ▲  | 50           | 944-002-0   | Support Ring (2.6 x 4.5 x 1)        | 1 ●  | 94                                       | 992-020-0   | SU-Ring (Q12) NTN              | 1 ●  |
| 11           | 147-100-3   | Valve                      | 1    | 51           | 944-212-0   | Support Ring (12 x 16 x 1.5)        | 1 ●  | <b>PARTS FOR ULT-50D</b>                 |             |                                |      |
| 12           | 142-104-6   | Valve Rod                  | 1    | 52           | 944-217-0   | Support Ring (14 x 20 x 1.8)        | 2    | 106                                      | 145-350-2   | Driver Anvil                   | 1    |
| 13           | 147-107-2   | Valve Lever                | 1    | 53           | 952-106-0   | Allen Head Dog Point Screw (M4 x 6) | 1    | 107                                      | 011-351-1   | Bit Sleeve (1/8)               | 1    |
| 14           | 147-210-2   | Reverse Valve              | 1    | 54           | 966-099-0   | Allen Head Plug (NPT1/16) GDL       | 1    | 108                                      | 011-352-1   | Bit Spacer                     | 1    |
| 15           | 147-211-2   | Reverse Valve Bushing      | 1    | 55           | 970-013-0   | Pin (H) (1.5 x 4)                   | 1    | 109                                      | 145-924-2   | Name Plate (ULT50D)            | 1    |
| 16           | 098-212-5   | Reverse Lever              | 1    | 56           | 970-130-0   | Pin (H) 12.45 x 4.5)                | 2    | 110                                      | 976-327-0   | Spring (13.5 x 11 x 0.9)       | 1    |
| 17           | 145-291-7   | Rear Plate Spacer          | 1    | 57           | 970-131-0   | Pin (H) (2.45 x 9.5)                | 2    | 111                                      | 978-117-0   | Snap Ring (11.7 x 1)           | 1    |
| 18           | 145-285-6   | Rear Plate                 | 1    | 58           | 971-102-0   | Pin (2 x 3.8)                       | 1    | 112                                      | 981-002-0   | Ball (1/8)                     | 1    |
| 19           | 145-286-0   | Cylinder                   | 1    | 59           | 971-123-0   | Pin (2 x 23)                        | 1    | <b>PARTS FOR ULT-50L</b>                 |             |                                |      |
| 20           | 145-287-0   | Rotor                      | 1    | 60           | 973-008-0   | Roll Pin (2 x 8)                    | 2    | 114                                      | 145-253-3   | Shut-off Valve Bushing         | 1    |
| 21           | 145-288-0   | Blade (PC)                 | 9 ▲  | 61           | 973-014-0   | Roll Pin (2 x 14)                   | 1    | 115                                      | 145-924-3   | Name Plate                     | 1    |
| 22           | 145-289-6   | Front Plate                | 1    | 62           | 973-040-0   | Roll Pin (1.5 x 5)                  | 2    | <b>PARTS FOR ULT-50DL</b>                |             |                                |      |
| 23           | 147-036-2   | Hammer Casing Connector    | 1    | 63           | 975-752-0   | Adjusting Spacer (1.5 x 10 x 1)     | 1    | 114                                      | 145-253-3   | Shut-off Valve Bushing         | 1    |
| 24           | 145-439-0   | Front Casing               | 1    | 64           | 976-006-0   | Spring (3 x 5 x 0.4)                | 1    | 119                                      | 145-924-4   | Name Plate                     | 1    |
| 25           | 190-328-6   | Anvil Bushing              | 1    | 65           | 976-457-0   | Spring (7 x 12 x 0.9)               | 1    | <b>PARTS FOR TM-TYPE</b>                 |             |                                |      |
| 26           | 145-901-0   | Rear Liner Plate           | 1    | 66           | 976-791-0   | Spring (3.3 x 21 x 0.4) WPC         | 2 ●  | 123                                      | 852-501-1   | Handle                         | 1    |
| 27           | 145-902-0   | Liner                      | 1    | 67           | 977-043-0   | Cone Spring (4.1 x 4.7 x 9) (0.45)  | 1    | 124                                      | 851-954-1   | Medium Valve Sheet             | 1    |
| 28           | 145-546-6   | Piston                     | 1    | 68           | 976-650-0   | Spring (3.3 x 16 x 0.45) [Standard] | 1    | 126                                      | 851-955-1   | Connecting Screw               | 1    |
| 29           | 145-929-6   | Check Valve Cover          | 1    | 70           | 976-662-0   | Spring (3.3 x 18 x 0.45)            | 1    | 127                                      | 909-442-0   | Quick Exhaust (AQ240F-04-00)   | 1    |
| 30           | 145-130-0   | Operating Rod (2.1 x 50.9) | 1    | 71           | 976-682-0   | Spring (2.7 x 7.4 x 0.37) for ULT50 | 1 ●  | 128                                      | 933-281-0   | One-Touch Connector (KJH04-M5) | 1    |
| 31           | 891-554-1   | Anvil Assembly (P)         | 1    | 72           | 976-674-0   | Spring (4.3 x 14 x 0.55)            | 1 ●  | 129                                      | 935-240-0   | Nylon Tube (18NY)              | 1    |
| 31-1         | 145-319-0   | Anvil (O)                  | 1    | 73           | 976-653-0   | Spring (2.4 x 5 x 0.26)             | 1 ●  | 130                                      | 935-350-0   | Polyurethane Hose (F-1504)     | 1    |
| 31-2         | 891-300-1   | Socket Pin Assembly        | 1    | 74           | 981-001-0   | Ball (3/32)                         | 1    | 131                                      | 935-358-0   | Polyurethane Hose (TU-0212)    | 1    |
| 32           | 145-440-0   | Driving Blade              | 2    | 75           | 981-002-0   | Ball (1/8)                          | 1    | 132                                      | 990-903-0   | O-Ring (SNS-5)                 | 1    |
| 33           | 145-974-0   | Roller (2.5 x 21)          | 2    | 76           | 981-003-0   | Ball (5/32)                         | 1    | <b>ACCESSORIES</b>                       |             |                                |      |
| 34           | 145-973-6   | Liner Casing Spacer        | 1    | 77           | 981-004-0   | Ball (1.5)                          | 9    | 96                                       | 939-091-0   | Allen Wrench (1.5 x 80 x 20)   | 1    |
| 35           | 145-904-6   | Front Liner Plate          | 1    | 79           | 982-014-0   | Ball Bearing (607)                  | 1 ▲  | 97                                       | 939-105-0   | Allen Wrench (4)               | 1    |
| 36           | 145-905-0   | Liner Casing               | 1    | 80           | 982-902-0   | Ball Bearing (6901)                 | 1 ▲  | 138                                      | 909-449-0   | Speed Controller (AS1001F-04)  | 1    |
| 37           | 145-906-6   | Liner Casing Cover         | 1    | 81           | 990-320-0   | O-Ring (APR568-003)                 | 1 ●  | <b>FOOTNOTES</b>                         |             |                                |      |
| 38           | 145-907-6   | Relief Valve Spindle       | 1    | 82           | 990-306-0   | O-Ring (APR568-004H)                | 1    | ● = Items in Pulse Repair Kit ULT-50-PRK |             |                                |      |
| 39           | 144-970-0   | Relief Valve               | 1    | 83           | 990-327-0   | O-Ring (JW1 530-18)                 | 1    | ▲ = Items in Repair Kit ULT-50-RK        |             |                                |      |
| 39-1         | 144-270-0   | Pressure Control Valve     | 1    | 84           | 990-329-0   | O-Ring(JW1 530-19)                  | 1 ●  |  |             |                                |      |
| 40           | 145-972-6   | Accumulator                | 1    |              |             |                                     |      |  |             |                                |      |



10000 SE PINE  
PORTLAND, OR 97216  
503-254-6600  
FAX 503-255-2615

When ordering spare parts, please specify  
tool type, part number, and description.

**FOOTNOTES**

● = Items in Pulse Repair Kit ULT-50-PRK  
▲ = Items in Repair Kit ULT-50-RK

REVISED 08/18