

45612710 Edition 2 May 2014

Air Drill

6L Series

Parts Information





Air Drill 6L Series Motor and Gearing Exploded Diagram



(Dwg. TPA1138-1)

Air Drill 6L Series Motor and Gearing Parts List

| Item | Part Description | Part Number | Item | Part Description | Part Number |
|---|---|------------------|------|--|--------------------|
| | Motor Housing Assembly | | 32 | Spindle Planet Gear Assembly (3) | |
| | for models ending in -EU | 6LH-EU-A40 | + | for K ratio (20 teeth) | 6WTK-A10 |
| | for all other models | 6LH-A40 | + | for L ratio (20 teeth) | 6WTL-A10 |
| 1 | Motor Housing | , | | for J or M ratio (16 teeth) | 6WTN-A10 |
| | for models ending in -EU | 6WS-EU-B40 | | for JJ, P, R or S ratio (18 teeth) | 6WTP-A10 |
| | for all other models | 6WS-B40 | 34 | Spindle Planet Gear (for H ratio) (3) | 6WTM-10 |
| | Throttle Plunger Bushing | 7L-91 | 35 | Planet Gear Bearing (for H ratio) (3) | 6WTM-500 |
| * | Warning Label | WARNING-7-99 | | Gear Retainer | 6LL-81 |
| 3 | Throttle Lever | 7L-273 | 37 | Rotor Pinion | 022.01 |
| 4 | Throttle Lever Pin | 7L-120 | 5, | for H,M or S ratio | 6WTM-17 |
| 5 | Throttle Plunger Assembly | 5LK2C-A94 | | for J or P ratio | 6WTN-17 |
| ‡• 6 | Throttle Plunger Seal | 6LL-259 | 38 | Gear Head | 00011017 |
| + 7 | Throttle Valve Seat | 7AH-303 | 50 | for M ratio (marked M) | 6LM-216 |
| + 9 | Throttle Valve | 7AH-302 | | for P ratio (marked P) | 6LP-216 |
| + 0 | Throttle Valve Spring | 7L-51 | | for R ratio (marked R) | 6LR-216A |
| ±10 | Silencer Seal Ring | WWV100A1-43 | | for S ratio (marked S) | 6AS-216 |
| ‡ • 11 | Exhaust Deflector Seal | R00A2-103 | 39 | Gear Head Planet Gear Assembly (3) | 043-210 |
| 12 | Rear Muffler | 6WS-A23 | 39 | for P ratio (16 teeth) | 6WTN-A10 |
| ±•13 | Muffler Element | 3RA-310 | | for R ratio (20 teeth) | 6WTK-A10 |
| +•15 | Exhaust Silencer (2 for Model 6LR3; | 3RA-310 | | for S ratio (20 teeth) | 6WTL-A10 |
| <i></i> <i></i> <i></i> | 1 for all other models) | 4RL-311 | 41 | Gear Head Planet Gear (for M ratio) (3) | 6WTM-10 |
| 15 | Inlet Bushing Spacer | 7AH-65 | 41 | Planet Gear Bearing (for M ratio) (3) | 6WTM-500 |
| 15 | Inlet Bushing | 7L-565 | 42 | Gear Head Spacer (for M, P, R or S ratio) | 6LM-80 |
| +•17 | Air Strainer Screen | R0A2-61 | 43 | Gear Case Assembly | 6LIVI-80 |
| +•17 | Warning Label | NUA2-01 | | for H, J, JJ, K or L ratio | 6LL-A37 |
| | for models ending in -EU | EU-99 | | for M, P, R or S ratio | 6LL-A37 6LM-A37 |
| | for all other models | WARNING-7-99 | 44 | Gear Case | 6LIVI-A37 |
| + 10 | | 6WRT-739 | 44 | for M, J, JJ, K or L ratio | (11 027 |
| ‡∙ 18 ‡∙ 19 | | 6WT-118 | | for M, J, JJ, K or L ratio | 6LL-B37 6LM-B37 |
| +•19 +•20 | | 6WT-117 | 45 | Grease Fitting | D0F9-879 |
| <u>∓•20</u> 21 | Bearing Thrust Washer Rear Rotor Bearing | DG20-22 | 45 | Grease Shield | 5R-701 |
| ± 22 | Rear End Plate | | 40 | Grease Shield Retainer | |
| <u>∓22</u> 23 | | | 47 | Spindle Bearing | 6LL-343 R1L-24 |
| 23 | Rotor for H, J, M or P ratio (9 teeth) | 6AH-53 | 48 | Spindle Bearing Spindle Bearing Retainer | 7L-24 |
| | | | 49 | | 7L-28 |
| | for JJ ratio (12 teeth) for K or R ratio (9 teeth) | 6AJ-53 | | Drill Chuck (includes Chuck Key) for K ratio (0 to 1/4" [0 to 6 mm] capacity) | D004.00 |
| | for L or S ratio (9 teeth) | 6AK-53 6AL-53 | | for L, M, P or S ratio (0 to 3/8" [0 to 10 mm] | R00A-99 |
| ‡ • 24 | Vane Packet (set of 4 Vanes) | 6WT-42-4 | | | 6A-99 |
| | | 6AH-3 | | capacity) for R ratio (0 to 1/2" [0 to 13 mm] capacity) | DOK OO |
| 25 | Cylinder Front End Plate | | * | | R0K-99 |
| 26 | | 6WT-11 | * | Chuck Key | D004 1252 |
| 27 | Cylinder Dowel | 6WT-98 | | for R00A-99 | R00A-1253 |
| ‡ •28 | Front Rotor Bearing | R00H-97 | | for 6A-99 | R0J-1253 |
| 29 | Spindle Assembly | CI 11 A 0 | * | for R0K-99 | R1T-1253 |
| | for H ratio | 6LH-A8 | * | Horizontal Hanger | 6W5-366 |
| | for J ratio | 6LJ-A8 | * | Vertical Hanger | 7L-365 |
| | for JJ ratio | 6LJJ-A8 | * | Grease Gun | R000A2-228 |
| | for P, R or S ratio | 6LP-A8 | * | Piped-Away Exhaust Kit | 7L-K284 |
| | for K ratio | 6LK-A8 | * | Tune-up Kit (includes illustrated items | 6-DRILLS-TKI |
| | for L ratio | 6LL-A8 | | 6, 7, 8, 9, 10, 11, 13, 14 [2], 17, 18, 19, 20, 21, 24 | |
| | for M ratio | 6LN-A8 | | and 28) | |
| 30 | Seal Support | 5RAK-5 | * | Pressing Fixture | 7L1A-950 |

* Not Illustrated.

• To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part indicated by a 12345678 bullet (+) for every four tools in service.

‡ Indicates Tune-up Kit part.

† The gears used in both the No. 6WTL-A10 and No. 6WTK-A10 Planet Gear Assemblies have 20 teeth. The Gear (Part No. 6WTK-A10) can be distinguished by the annular groove through the middle of the tooth.

Air Drill 6L Series Angle Attachments Exploded Diagram



(Dwg. TPB791)

Air Drill 6L Series Angle Attachments Parts List

| Item | Dent Description | Part Number | | | |
|-------|--|-------------|-------------|------------|--|
| | Part Description | 7L1A1 | 7L2A4 | 7L3A4 | |
| | Angle Drill Attachment | 7L1A1 | 7L2A4 | 7L3A4 | |
| 101 | Angle Housing Assembly | 7L1A-B550 | 7L2A-B550 | 7L3A-B550 | |
| 102 | Grease Fitting | D0F9-879 | D0F9-879 | D0F9-879 | |
| 103 | Angle Housing Cap | | | 8SA32-110 | |
| • 104 | Spindle Upper Bearing | | 120A4-603 | 85A32-603 | |
| 105 | Spindle Upper Bearing | 7L1A-603 | | | |
| • 106 | Upper Bearing Shim Packet (two thicknesses of Shims) | 7L1A-P448 | | | |
| • 107 | Matched Bevel Gear Set | | 141A12-A552 | 7L3A-A552 | |
| • 108 | Spindle Assembly (1/4"-28 female thread) | 7L1A1-A591 | | | |
| • 109 | Bevel Pinion Bearing | 7AH-24 | H54U-511B | 182A53-606 | |
| 110 | Bearing Seat Retainer | W22-6 | 1415A12-6 | 1415A12-6 | |
| 111 | Rear Thrust Bearing Seat | 7L2A-682 | 7L2A-682 | 7L2A-682 | |
| 112 | Bevel Pinion Thrust Bearing | 3RL2-105 | 161A32-105 | 161A32-105 | |
| 113 | Front Thrust Bearing Seat | 7L1A-683 | 141A12-683 | 141A12-683 | |
| 114 | Pinion Bearing Spacer Retainer | | RXA21-343 | 182A53-685 | |
| 116 | Bevel Pinion Bearing Spacer | | 7L2A-165 | 182A53-165 | |
| • 119 | Lower Spindle Bearing | 7L1A-593 | 120A4-593 | 8SA32-593 | |
| 120 | Bevel Gear Retainer | | 120A4-578 | 8SA32-578 | |
| 121 | Spindle Bearing Cap | 7L1A-531 | 7L2A4-531 | 8SA32-531 | |
| 122 | Spindle (3/8"-24 male thread) | | 7L2A4-791 | 7L3A4-791 | |
| 123 | Coupling Nut Retainer | 5C1-29 | 5C1-29 | 5C1-29 | |
| 124 | Coupling Nut | 7L-27 | 7L-27 | 7L-27 | |
| * | Bearing Inserting Tool | 7L1A-950 | 7L2A-950 | 7L3A-950 | |
| * | Lower Bearing Cap Wrench | | | 8SA32-26 | |

* Not Illustrated.

 To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part indicated by a bullet (•) for every four tools in service.

Parts and Maintenance

When the life of the tool has expired, it is recommended that the tool be disassembled, degreased and parts be separated by material so that they can be recycled.

Tool repair and maintenance should only be carried out by an authorized Service Center.

Refer all communications to the nearest Ingersoll Rand Office or Distributor.

Related Documentation

For additional information refer to: Product Safety Information Manual 04580353. Product Information Manual 03534666. Product Maintenance Information Manual 45612736.

Manuals can be downloaded from ingersollrandproducts.com

Notes:

Notes:

ingersollrandproducts.com



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