

RESERVEDLSINFORMATION / PARTS INFORMATION

# 5R-serien skruvdragare - Reservdelsinformation

Ingersoll Rand 5RANP1 · 5RAND1 · 5RANC1 · 5RALD1

## Originaldokument: Ingersoll Rand

Tillhandahålls av Professional Technologies Sweden AB

Original document by Ingersoll Rand, provided by

Professional Technologies Sweden AB - authorized Ingersoll Rand distributor.

**Produkt / Product: skanna QR-koden · scan QR**



## Service · Kalibrering · Originalreservdelar

Service · Calibration · Genuine spare parts



**16574576**

Edition 2

June 2009

# **Air Screwdrivers**

## **5 Series**

---

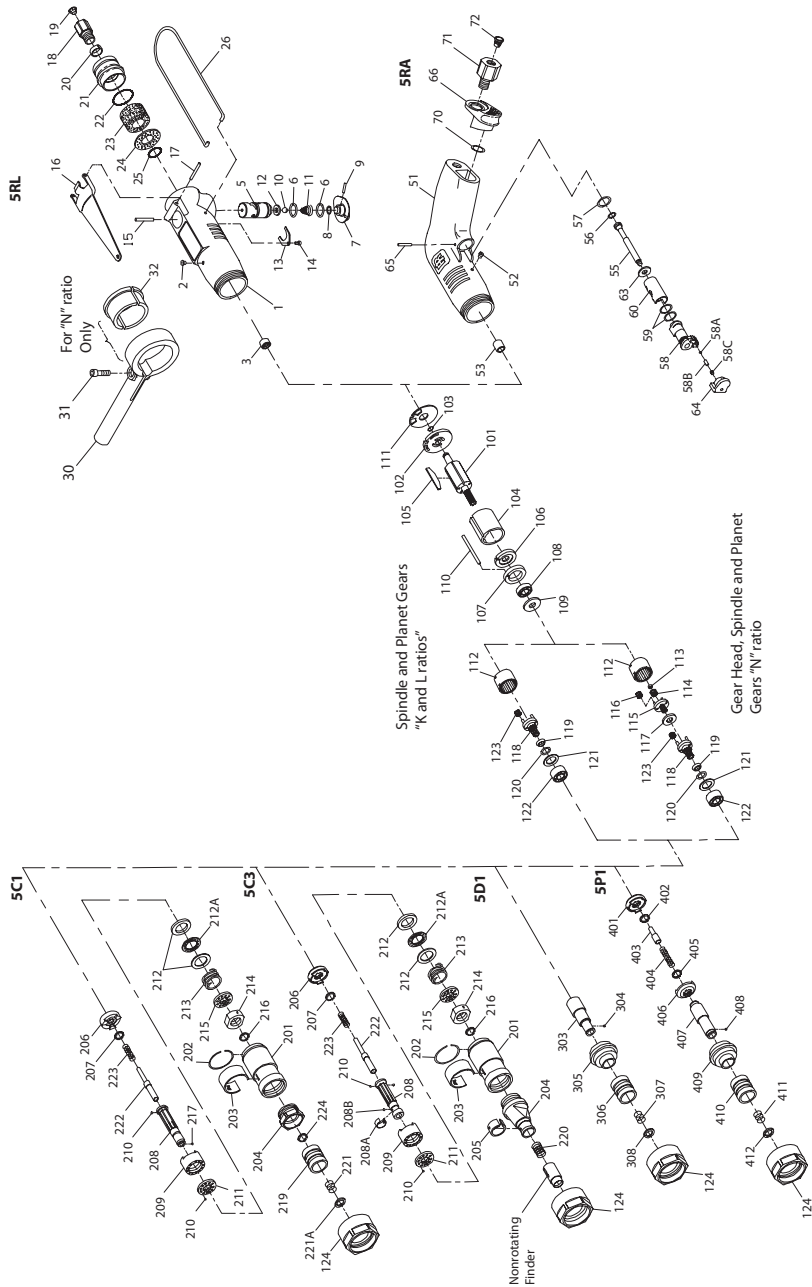
# **Parts Information**



**Save These Instructions**



Series 5 Motor Housing Assembly Exploded View



## Series 5 Motor Housing Assembly Parts List

| Item | Part Description                   | Part Number  | Item | Part Description                                                                                                             | Part Number |
|------|------------------------------------|--------------|------|------------------------------------------------------------------------------------------------------------------------------|-------------|
|      | Motor Housing Assembly             |              | *    | Nameplate                                                                                                                    |             |
|      | L ratio                            |              |      | for 5RLL & 5RLN models                                                                                                       | 5RA-301     |
|      | for 5RLL models ending in C1 or C3 | 5RLK-A40     |      | ending in C1 or C3                                                                                                           |             |
|      | for 5RLL models ending in -EU      | 5RLK-EU-A40  |      | for 5RLL and 5RLN models                                                                                                     | 5RA-EU-301  |
|      | N ratio                            |              |      | ending in EU                                                                                                                 |             |
|      | for 5RLN models ending in C1 or C3 | 5RLN-A40     |      | for all other models ending                                                                                                  | 4RA-EU-301  |
|      | for 5RLN models ending in -EU      | 5RLN-EU-A40  |      | in -EU                                                                                                                       |             |
|      |                                    |              |      | for all other models                                                                                                         | 4RA-301     |
| 1    | Motor Housing                      |              | *    | Nameplate Screw (2)                                                                                                          | BN403-302   |
|      | L ratio                            |              |      | Piped-Away Exhaust Kit                                                                                                       | 5L-K184     |
|      | for 5RLL models ending in C1 or C3 | 5RLK-B40     |      | Dead Handle Assembly                                                                                                         | 728N-A48    |
|      | for 5RLL models ending in -EU      | 5RLK-EU-B40  | 30   | Pinch Bolt                                                                                                                   | 510-638     |
|      | N ratio                            |              | 31   | Dead Handle Adapter (2)                                                                                                      | 5A-49       |
|      | for 5RLN models ending in C1 or C3 | 5RLN-B40     |      |                                                                                                                              |             |
|      | for 5RLN models ending in -EU      | 5RLN-EU-B40  | *    | Tune-up Kit (includes illustrated parts:<br>6, 8, 11, 12, 22, 23, 53, 56, 57, 59, 62,<br>70, 72, 103, 105, 108, 111 and 120) | 5RA/5RL-TK1 |
| 2    | Grease Fitting                     | D0F9-879     |      |                                                                                                                              |             |
| 3    | Rear Rotor Bearing                 | 5R-24        |      |                                                                                                                              |             |
|      | Throttle Assembly                  | 5RL-A329     | *    | Vibra-Tite® +                                                                                                                |             |
| 5    | Throttle Valve Body Assembly       | 5RL-B329     |      | 0.6 cc                                                                                                                       | 5R-VT06     |
| 6    | Valve Seal (2)                     | 85H-167      |      | 30.0 cc                                                                                                                      | 5R-VT30     |
| 7    | Valve Knob                         | 5RL-658      | *    | Rear Rotor Bearing Puller                                                                                                    | 5R-A799     |
| 8    | Valve Knob Seal                    | R1A-159      |      | Motor Housing Assembly                                                                                                       |             |
| 9    | Valve Knob Retainer                | R2N-152      |      | K and L ratios                                                                                                               |             |
| 10   | Throttle Valve                     | G601-65      |      | for 5RAK and 5RAL models                                                                                                     | 5RAK-A40    |
| 11   | Throttle Valve Spring              | 5RL-51       |      | ending in C1, C3, D1 and P1                                                                                                  |             |
| 12   | Throttle Valve Seat                | 5L-323       |      | for 5RAK and 5RAL models                                                                                                     | 5RAK-EU-A40 |
| 13   | Throttle Assembly Retainer         | 5RL-667      |      | ending in -EU                                                                                                                |             |
| 14   | Retainer Screw                     | WWA100-77    |      | N ratio                                                                                                                      |             |
| 15   | Throttle Valve Plunger             | 5RL-302      |      | for 5RAN models                                                                                                              | 5RAN-A40    |
| 16   | Throttle Lever                     | 5RL-273      |      | ending in C1, C3, D1 or P1                                                                                                   |             |
| 17   | Throttle Lever Pin                 | 5RL-120      |      | for 5RAN models ending in -EU                                                                                                | 5RAN-EU-A40 |
| 18   | Inlet Bushing Assembly             | 5RA-A565     | 51   | Motor Housing                                                                                                                |             |
| •19  | Air Strainer Screen                | 5RA-61       |      | K and L ratios                                                                                                               |             |
| 20   | Inlet Bushing Spacer               | 5RA-65       |      | for 5RAK and 5RAL models                                                                                                     | 5RAK-B40    |
| 21   | Exhaust Deflector                  | 5RL-23       |      | ending in C1, C3, D1 or P1                                                                                                   |             |
| 22   | Exhaust Deflector Seal             | R00A2-103    |      | N ratio                                                                                                                      |             |
| 23   | Muffler Element                    | 5RL-311      |      | for 5RAN models ending                                                                                                       | 5RAN-B40    |
| 24   | Exhaust Silencer                   | 5RL-310      |      | in C1, C3, D1 or P1                                                                                                          |             |
| 25   | Silencer Seal Ring                 | R18LF-21     |      | for 5RAN models ending in -EU                                                                                                | 5RAN-EU-B40 |
| 26   | Suspension Bail                    | 5RL-365      | 52   | Grease Fitting                                                                                                               | D0F9-879    |
| *    | Warning Label                      |              | † 53 | Rear Rotor Bearing                                                                                                           | 5R-24       |
|      | for 5RLL and 5RLN models           | WARNING-7-99 |      | Throttle Assembly                                                                                                            | 5RA-A302    |
|      | ending in C1 or C3                 |              | # 55 | Throttle Valve                                                                                                               | 5A-BT302    |
|      | for 5RLL and 5RLN models           | EU-99        | † 56 | Throttle Valve Face                                                                                                          | 401-159     |
|      | ending in EU                       |              | † 57 | Throttle Bushing Seat                                                                                                        | R18L-14     |
|      | for other models ending in -EU     | 4RA-EU-301   | # 58 | Reverse Valve Assembly                                                                                                       | 5RA-A329    |
|      | for all other models               | 4RA-301      | 58A  | Reverse Valve Detent Ball                                                                                                    | AV1-255     |

## Series 5 Motor Housing Assembly Parts List

| Item | Part Description                     | Part Number | Item | Part Description                                          | Part Number  |
|------|--------------------------------------|-------------|------|-----------------------------------------------------------|--------------|
| 58B  | Reverse Valve Detent Spring          | 5RA-664     | † 72 | Air Strainer Screen                                       | 5RA-61       |
| 58C  | Reverse Valve Detent Adjusting Screw | 5RA-665     | *    | Warning Label                                             | WARNING-7-99 |
| † 59 | Reverse Valve Seal Ring (2)          | PS3-67      |      | for 5RAK, 5RAL and 5RAN models ending in C1, C3, D1 or P1 |              |
| # 60 | Reverse Valve Bushing                | 5RA-330     |      | for 5RAK, 5RAL and 5RAN models ending in -EU              | EU-99        |
| # 61 | Throttle Bushing                     | -----       |      |                                                           |              |
| † 62 | Throttle Bushing Seal (2)            | -----       | *    | Hanger                                                    | 7RA-A366     |
| 63   | Throttle Valve Seat                  | 5RA-303     | *    | Name Plate                                                | 5RA-301      |
| 64   | Trigger                              | 5RA-93      |      | for 5RAK, 5RAL and 5RAN models ending in C1, C3, D1 or P1 |              |
| 65   | Throttle Retaining Pin               | R100B-120   |      | for 5RAK, 5RAL and 5RAN models ending in -EU              | 5RA-EU-301   |
| 66   | Muffler Assembly                     | 5RA-A123A   |      |                                                           |              |
| † 70 | Seal Ring                            | R18LF-21    | *    | Rear Rotor Bearing Puller                                 | 5R-A799      |
| 71   | Inlet Bushing Assembly               | 5RA-A565    |      |                                                           |              |

\* 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.

† Indicates Tune-up Kit part.

# When ordering any of these parts for replacement, also order a new Trigger (64).

## Series 5 Rotor Parts List

| Item    | Part Description             | Part Number | Item  | Part Description          | Part Number |
|---------|------------------------------|-------------|-------|---------------------------|-------------|
| 101     | Rotor                        |             | • 116 | Gear Head Planet Gear     |             |
|         | for K ratio (8 teeth)        | 5RLK-53     |       | for N ratio, 13 teeth (3) | 5RAN-9      |
|         | for all others (6 teeth)     | 5RLL-53     | 117   | Bearing Retainer Washer   |             |
| 102     | Rear End Plate               | 5RLK-12     |       | for N ratio               | 5R-80       |
| † • 103 | End Plate Retainer           | 5RLK-118    |       | Spindle Assembly          |             |
| 104     | Cylinder                     | 5RLK-3      |       | for K and L ratios        | 5RAK-A8     |
| † • 105 | Vane Packet (set of 5 Vanes) | R1401-42-5  |       | for N ratio               | 5RAN-A8     |
| 106     | Front End Plate              | 5RLK-11     | • 118 | Spindle                   |             |
| 107     | Front Rotor Bearing Housing  | 5R-13       |       | for K and L ratios        | 5RAK-8      |
| † • 108 | Front Rotor Bearing          | WWA100-97   |       | for N ratio               | 5RAN-8      |
| 109     | Bearing Retainer Washer      | 5R-80       | • 119 | Seal Support              |             |
| • 110   | Cylinder Dowel               | R0A1-98     |       | for K, L or N ratio       | 5RAK5       |
| † • 111 | Rear End Plate Gasket        | 5RLK-739    | † 120 | Seal                      | 182A53-610  |
| • 112   | Ring Gear                    |             | 121   | Grease Shield             | 5R-701      |
|         | for K ratio (40 teeth)       | 5RAK-406A   | 122   | Spindle Bearing           | R1-24A      |
|         | for L ratio (42 teeth)       | 5RAL-406A   | • 123 | Spindle Planet Gear (3)   |             |
|         | for N ratio (42 teeth)       | 5RAN-406B   |       | for K ratio (15 teeth)    | 5RAK-10A    |
| • 113   | Rotor Pinion Spacer          |             |       | for L ratio (17 teeth)    | 5RAL-10B    |
|         | for N ratio                  | 5RAN-18     |       | for N ratio (14 teeth)    | 5RAN-10A    |
| • 114   | Rotor Pinion                 |             | 124   | Clutch Coupling Nut       | 5R-27       |
|         | for N ratio (15 teeth)       | 5RAN-17     | *     | Grease Gun                | R000A2-228  |
| • 115   | Gear Head Assembly           |             | *     | Nose Piece Spanner Wrench | MR-453      |
|         | for N ratio                  | 5RAN-A216   |       |                           |             |

\* 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.

† Indicates Tune-up Kit part.

## Series 5 Adjustable Clutch Attachment Parts List

| Item   | Part Description             | For Models<br>Ending in C1 | For Models<br>Ending in C3 |
|--------|------------------------------|----------------------------|----------------------------|
|        | Adjustable Clutch Attachment |                            |                            |
|        | with Light Clutch Spring     | 5C1L                       | 5C3L                       |
|        | with Heavy Clutch Spring     | 5C1                        | 5C3                        |
| 201    | Clutch Housing Assembly      | 5C1-A580                   | 5C1-A580                   |
| 202    | Coupling Nut Retainer        | 5C1-29                     | 5C1-29                     |
| 203    | Adjusting Hole Cover         | 5C1-415                    | 5C1-415                    |
| 204    | Housing Nose Cap Assembly    | -----                      | 5C3-A400                   |
| 205    | Nose Piece                   | 5C1-400                    | -----                      |
| 206    | Finder Retaining Spring      | -----                      | 102A60-628                 |
| • 206  | Clutch Driver                | 5C1-581                    | 5C1-581                    |
| • 207  | Clutch Driver Retainer       | 12E-6                      | 12E-6                      |
|        | Bit Holder Assembly          |                            |                            |
|        | with Light Clutch Spring     | 5C1-AL586                  | 5C3-AL586                  |
|        | with Heavy Clutch Spring     | 5C1-AH586                  | 5C3-AH586                  |
| 208    | Bit Holder                   | 5C1-586                    | 5C3-B586                   |
| 208A   | Bit Retaining Spring         | -----                      | 102A60-241                 |
| • 208B | Bit Retaining Ball           | -----                      | AV1-255                    |
| • 209  | Front Clutch Jaw             | 5C1-589A                   | 5C1-589A                   |
| • 210  | Clutch Ball (24)             | RX1-629                    | RX1-629                    |
| • 211  | Clutch Ball Spacer           | 5C1-401A                   | 5C1-401A                   |
| • 212  | Clutch Spring Seat (2)       | 5C1-627                    | 5C1-627                    |
| 212A   | Spring Seat Bearing          | 5C1-105                    | 5C1-105                    |
| 213    | Clutch Spring                |                            |                            |
|        | Heavy (Green)                | 5C1-H583                   | 5C1-H583                   |
|        | Light (Black)                | 5C1-L583                   | 5C1-L583                   |
| 214    | Clutch Adjusting Nut         | 5C1-582A                   | 5C1-582A                   |
| 215    | Adjusting Nut Lock           | 5C1-588                    | 5C1-588                    |
| • 216  | Bit Holder Stop              | 5C1-729                    | 5C1-729                    |
| • 217  | Bit Retaining Ball           | RX1-629                    | -----                      |
| • 219  | Bit Retaining Sleeve         | 5C1-930-4                  | -----                      |
| 220    | Finder Spring                | -----                      | 102A60-242                 |
| • 221  | Retaining Sleeve Spring      | 5C1-931-4                  | -----                      |
| • 221A | Sleeve Spring Retainer       | 5C1-853                    | -----                      |
| # 222  | Disengaging Plunger          | 5C1-584A                   | 5C1-584A                   |
| # 223  | Plunger Spring               | 5C1-626A                   | 5C1-626A                   |
| • 224  | Bit Retaining Sleeve Stop    | 5C1-729                    | -----                      |
| *      | Clutch Adjusting Key         | 5C1-416                    | 5C1-416                    |
| *      | Bit Guide                    | -----                      | 5RA-69                     |

\* 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.

# Refer to **IMPROVED DISENGAGING PLUNGER AND SPRING**.

Improved Disengaging Plunger and Spring

The Adjustable Clutch Attachments have been revised to incorporate a new style Disengaging Plunger (222) and Plunger Spring (223). The new style parts in combination can be used to replace the old style. Parts are easily identified by the following descriptions.

| Part    | Old Style                                                              | New Style                                                                  |
|---------|------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Spring  | Length– 2” (50 mm) Coils– 20 Diameter of end coils smaller than others | Length– 1–5/16” (33 mm) Coils– 15 Diameter end of coils larger than others |
| Plunger | Overall Length– 1–3/8” (35 mm)                                         | Overall Length – 2–5/16” (59 mm)                                           |

Note that the position of the new style parts is transposed in comparison with the old. When assembling, insert the small diameter section of the Plunger through the bore of the Spring, then insert the Plunger, large end first, into the bore of the Bit Holder (208).

Series 5 Direct Drive Attachment Parts List

| Item  | Part Description                | Part Number | Item  | Part Description            | Part Number |
|-------|---------------------------------|-------------|-------|-----------------------------|-------------|
|       | Direct Drive Attachment         | 5D1         | 403   | Disengaging Plunger         | 5P1-584     |
| 303   | Bit Holder                      | 5D1-786-4   | 404   | Plunger Spring              | 5P1-626     |
| • 304 | Bit Retaining Ball              | RX1-629     | • 405 | Front Jaw Retainer          | N44-6       |
| 305   | Clutch Housing                  | 5P1-580     | • 406 | Front Jaw (11 tooth spline) | 5P1-587     |
| 306   | Bit Retaining Sleeve            | 5C1-930-4   | 407   | Bit Holder                  | 5P1-586     |
| • 307 | Retaining Sleeve Spring         | 5C1-931-4   | • 408 | Bit Retaining Ball          | RX1-629     |
| • 308 | Sleeve Spring Retainer          | 5C1-853     | 409   | Clutch Housing              | 5P1-580     |
|       | Positive Jaw Clutch Attachment  | 5P1         | 410   | Bit Retaining Sleeve        | 5C1-930-4   |
| • 401 | Clutch Driver (10 tooth spline) | 5P1-581     | • 411 | Retaining Sleeve Spring     | 5C1-931-4   |
| 402   | Clutch Driver Retainer          | 12E-6       | • 412 | Sleeve Spring Retainer      | 5C1-853     |

• 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 04585006.  
Product Information Manual 16575268, 80167281.  
Maintenance Information Manual 16575268.  
Manuals can be downloaded from [www.ingersollrandproducts.com](http://www.ingersollrandproducts.com)



**[www.ingersollrandproducts.com](http://www.ingersollrandproducts.com)**

© 2009 **Ingersoll Rand** Company

