



**04581237**  
Edition 5  
September 2008

# **Air Grinder, Die Grinder and Sander**

## **G2 Series (Angle)**

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## **Parts Information**



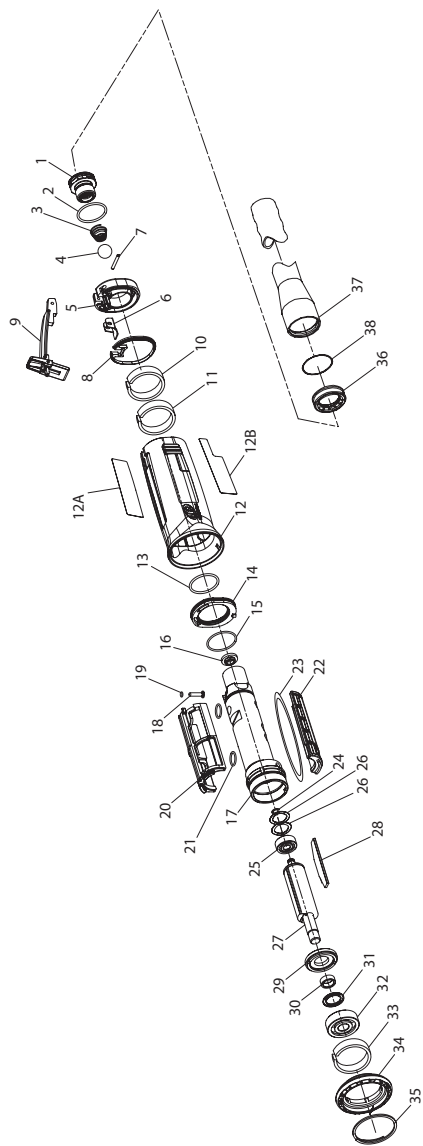
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G2 Series (Angle) Air Grinder, Air Die Grinder and Air Sander Exploded Diagram - Body



(Dwg. 16574360)

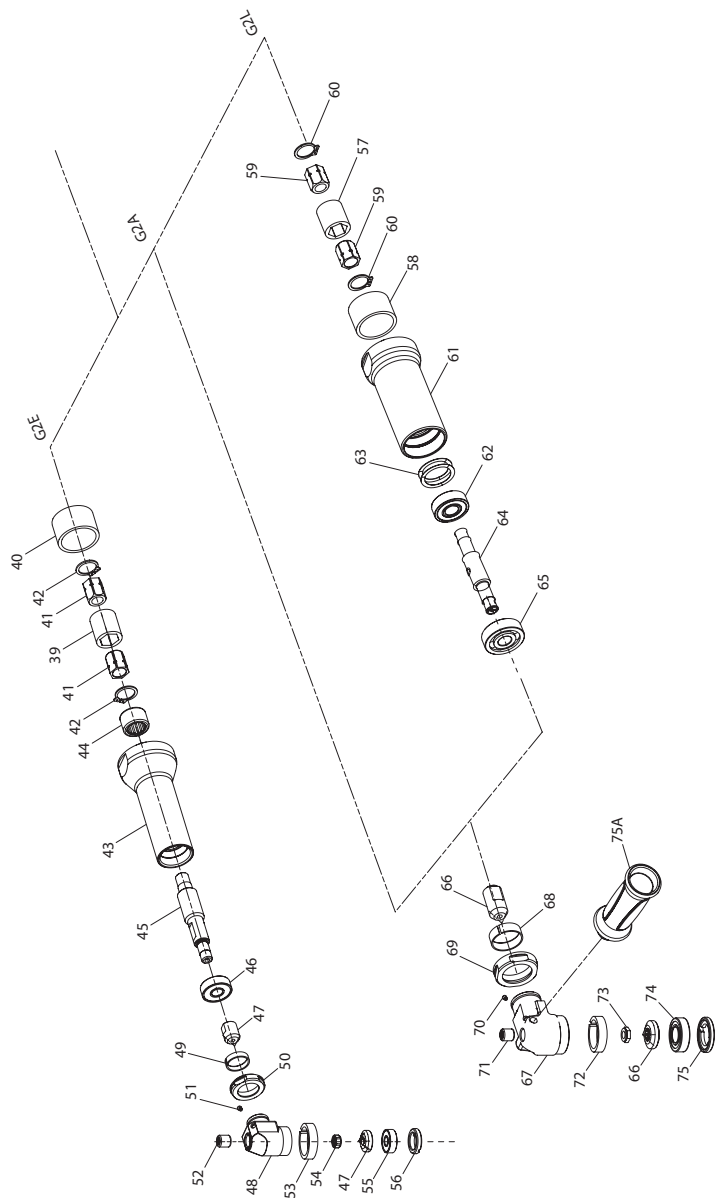
## G2 Series (Angle) Air Grinder, Air Die Grinder and Air Sander Parts List - Body

| Item                                                   | Part Description                                                           | Part Number | Item | Part Description                                                                                             | Part Number |
|--------------------------------------------------------|----------------------------------------------------------------------------|-------------|------|--------------------------------------------------------------------------------------------------------------|-------------|
| <b>Common parts for all G2A, G2E, and G2L Grinders</b> |                                                                            |             |      |                                                                                                              |             |
| 1                                                      | Inlet Assembly                                                             | AG2-A465    | 20   | Flow Guide Assemblies                                                                                        |             |
| *                                                      | Inlet Screen                                                               | R1602-61    | 21   | Flow Guide O-Ring (2) (with each Flow Guide Assembly)                                                        | 16570798    |
| 2                                                      | Inlet Seal                                                                 | 85H-167     |      |                                                                                                              |             |
| *                                                      | Ball Valve Spring Seat                                                     | AG2-592     | *    | Flow Guide Assembly for 100, 150, & 180                                                                      | AG2-A200-1  |
| 3                                                      | Ball Valve Spring                                                          | 38966       | *    | Flow Guide Assembly for 090, 135, & 145                                                                      | AG2-A200-2  |
| 4                                                      | Ball                                                                       | D10-280     | *    | Flow Guide Assembly for 120                                                                                  | AG2-A200-3  |
| 5                                                      | Rear Exhaust Diffuser                                                      | AG2-123     | *    | Flow Guide Assembly, for 075                                                                                 | AG2-A200-4  |
| 6                                                      | Lever Support                                                              | LG2-89      | 22   | Intake Cover Assembly                                                                                        | AG2-A144    |
| 7                                                      | Throttle Lever Pin                                                         | 61H-120     | 23   | Intake Cover O-Ring                                                                                          | 16570780    |
| 8                                                      | Rear Exhaust Diffuser Gasket                                               | AG2-223     | 24   | Rear Rotor Bearing Retainer                                                                                  | LG1-118     |
| 9                                                      | Lever Assembly                                                             | AG2-A400    | 25   | Rear Rotor Bearing                                                                                           | R120-127    |
| *                                                      | Lever                                                                      | --          | 26   | Rear Rotor Bearing Spacer (2)                                                                                | 400-25-191  |
| *                                                      | Lock Spring                                                                | --          | 27   | Rotor                                                                                                        | AG2-53-4A   |
| *                                                      | Lock Pin                                                                   | --          | 28   | Vane Pack                                                                                                    | AG2-42-4    |
| *                                                      | Lever Lock                                                                 | --          | 29   | Front End Plate                                                                                              | LG2-11      |
| 10                                                     | Rear Exhaust Diffuser Muffler                                              | AG2-311B    | 30   | Front End Plate Spacer                                                                                       | LG2-65      |
| 11                                                     | Rear Housing Muffler                                                       | AG2-311A    | 31   | Seal Assembly                                                                                                | 61H-A32     |
| 12                                                     | Motor Housing Assembly                                                     | AG2-A40     | 32   | Front Rotor Bearing                                                                                          | LG2-24      |
| 12A                                                    | Warning Label                                                              | AG2-99      | 33   | Front Muffler                                                                                                | AG2-311F1   |
| 12B                                                    | Model Label                                                                |             | 34   | Front Housing Cap                                                                                            | AG2-202     |
|                                                        | for Models ending in PP63, PP74, PP945, PP95, PP96, H63, H64, S10, G4, G4M | AG2-301     | 35   | Flange Clamp                                                                                                 | LG2-29      |
|                                                        | for Models ending in RP63, RP64, FP64, RP1045, RP105, RP106                | AG2-301NA   | *    | Exhaust Hose Adapter Kit                                                                                     | LG2-K284    |
| 13                                                     | Rear Cylinder O-Ring                                                       | 16570756    | 36   | Adapter                                                                                                      | LG2-184     |
| 14                                                     | Exhaust Seal                                                               | AG2-318     | 37   | Hose                                                                                                         | 3RL-284     |
| 15                                                     | Front Cylinder O-Ring                                                      | 16570772    | 38   | Retainer                                                                                                     | 6WT-203     |
| 16                                                     | Cylinder Assembly                                                          | AG2-A3      | †    | Tune Up Kit, Includes Part Number (2, 3, 4, 8, 10, 11, 13, 14, 15, 18, 21, 24, 25, 26, 28, 31, 32, 33, & 35) | AG2-TK1     |
| *                                                      | Throttle Bushing                                                           | AG2-781     | †    | Muffler Kit, Includes Part Number (10, 11, & 33)                                                             | AG2-MK311   |
| 17                                                     | Ball Valve Seat                                                            | AG2-303S    | †    | Rotor Kit, Includes Part Number (25, 26, 27, 28, 29, 30, 31 & 32)                                            | AG2-A53-4A  |
| 18                                                     | Throttle Pin Assembly                                                      | AG2-A161    |      |                                                                                                              |             |
| 19                                                     | Throttle Pin O-Ring                                                        | 16570806    |      |                                                                                                              |             |

\* Not Illustrated.

† To keep downtime to a minimum, it is desirable to stock one of each of these service kits for every four tools in service.

G2 Series (Angle) Air Grinder, Air Die Grinder and Air Sander Exploded Diagram - Middle

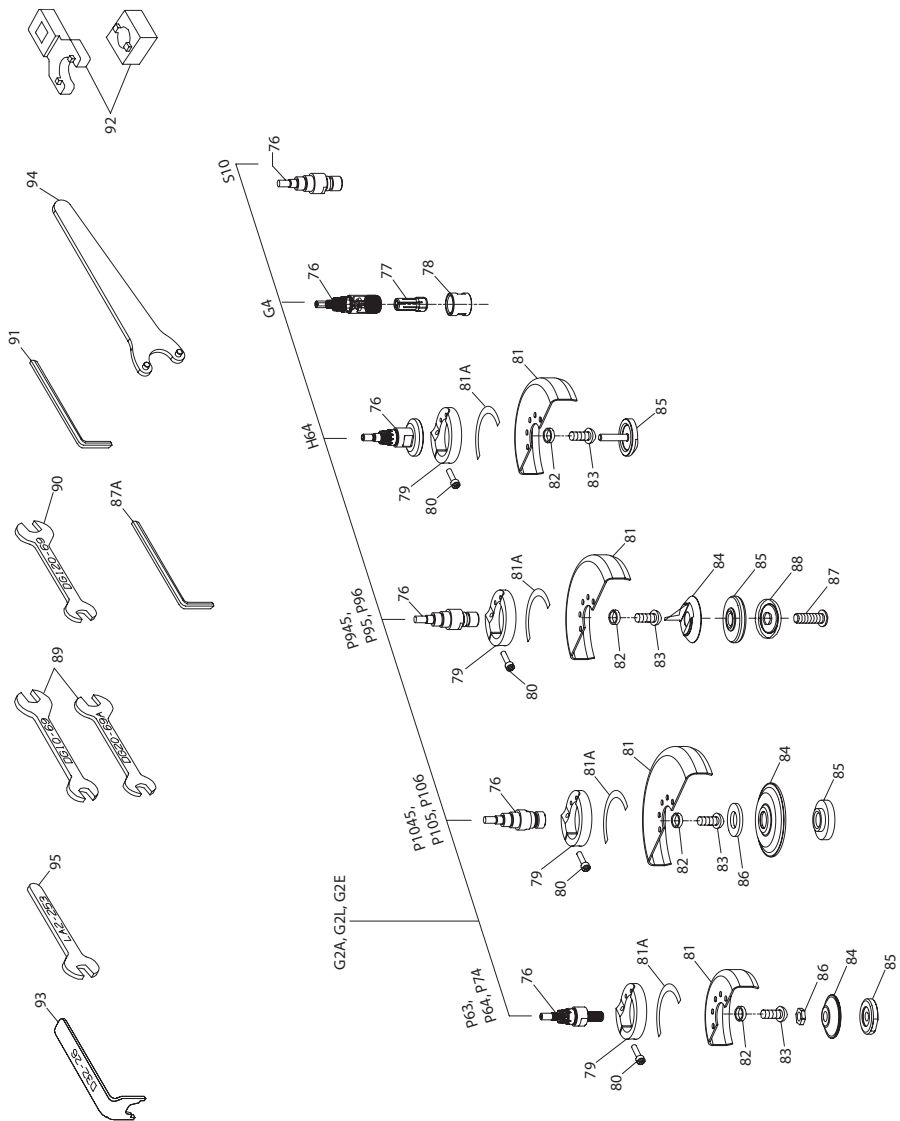


(Dwg. 16574378)

## G2 Series (Angle) Air Grinder, Air Die Grinder and Air Sander Parts List - Middle

| Item                                       | Part Description                                            | Part Number   | Item                                                 | Part Description                                            | Part Number  |
|--------------------------------------------|-------------------------------------------------------------|---------------|------------------------------------------------------|-------------------------------------------------------------|--------------|
|                                            | <b>Additional parts for all G2E models</b>                  |               | 61                                                   | Extension Housing                                           | LA3-20       |
| 39                                         | Arbor Coupling                                              | LE2-304       | 62                                                   | Rear Spindle Bearing                                        | WFS182-22    |
| 40                                         | Clamp Sleeve                                                | LE2-176       | 63                                                   | Rear Spindle Bearing Washer (2)                             | 7AH-278      |
| 41                                         | Spindle Bearing Nut (2)                                     | LE2-85        | 64                                                   | Spindle                                                     | LA3-4        |
| 42                                         | Coupling Retaining Ring (2)                                 | RX3-729       | 65                                                   | Front Spindle Bearing                                       | LG2-24       |
| 43                                         | Extension Housing Assembly                                  | LA2-A20       | <b>Additional parts for all G2A &amp; G2L models</b> |                                                             |              |
| 44                                         | Rear Spindle Bearing                                        | LE2-24        | 66                                                   | Bevel Pinion and Bevel Gear<br>(sold only as a matched set) |              |
| 45                                         | Spindle                                                     | LA2-4         |                                                      | for 075, 090, & 100                                         | LA2-A552-2.4 |
| 46                                         | Front Spindle Bearing                                       | LG1-24        |                                                      | for 180                                                     | LA2-A552-1.3 |
| 47                                         | Bevel Pinion and Bevel Gear<br>(sold only as a matched set) | LA1-A552-1.5A |                                                      | for 120, 135, & 150                                         | LA2-A552-1.7 |
| 48                                         | Angle Housing Assembly                                      | LA1-A550S     | 67                                                   | Angle Housing Assembly                                      | AG2-A550S    |
| 49                                         | Clamp Spacer                                                | LA1-46        | 68                                                   | Clamp Spacer                                                | LA2-46       |
| 50                                         | Clamp Nut                                                   | LG1-27        | 69                                                   | Clamp Nut                                                   | LG2-27       |
| 51                                         | Grease Fitting                                              | D0F9-879      | 70                                                   | Grease Fitting                                              | D0F9-879     |
| 52                                         | Upper Arbor Bearing                                         | AG210-693     | 71                                                   | Upper Arbor Bearing                                         | AG210-693    |
| 53                                         | Wick                                                        | LA1-561       | 72                                                   | Wick                                                        |              |
| 54                                         | Bevel Gear Nut                                              | AG210-578A    |                                                      | for 120, 135, 150                                           | LA2-560      |
| 55                                         | Lower Arbor Bearing                                         | AG210-24      |                                                      | for 180                                                     | LA2-561      |
| 56                                         | Arbor Bearing Cap                                           | AG210-531     |                                                      | for 075, 090, 100                                           | LA2-562      |
| <b>Additional parts for all G2L models</b> |                                                             |               | 73                                                   | Bevel Gear Nut                                              | LA2-578      |
| 57                                         | Arbor Coupling                                              | LE2-304       | 74                                                   | Lower Arbor Bearing                                         | LA2-593      |
| 58                                         | Clamp Sleeve                                                | LE2-176       | 75                                                   | Arbor Bearing Cap                                           | AG20-531     |
| 59                                         | Spindle Bearing Nut (2)                                     | LE2-85        | 75A                                                  | Handle                                                      |              |
| 60                                         | Coupling Retaining Ring (2)                                 | RX3-729       |                                                      |                                                             |              |

**G2 Series (Angle) Air Grinder, Air Die Grinder and Air Sander Exploded Diagram - End**



(Dwg. 16574386)

## G2 Series (Angle) Air Grinder, Air Die Grinder and Air Sander Parts List - End

| Item                                 | Part Description                                                                                | Part Number    | Item                                              | Part Description                                          | Part Number                                                                           |           |
|--------------------------------------|-------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
|                                      | Additional parts for all G2E models                                                             |                | 83                                                | Guard Mounting Screw (3)                                  |                                                                                       |           |
| 76                                   | Arbor                                                                                           |                |                                                   | for G2E models                                            | LA1-667                                                                               |           |
|                                      | for G2E models ending in G4                                                                     | AG210-4-G4     |                                                   | for G2A & G2L models                                      | AG31-667-4                                                                            |           |
|                                      | for G2A & G2L models ending in G4                                                               | AG220-4-G4     | 84                                                | Wheel Flange                                              |                                                                                       |           |
|                                      | for G2E models ending in H64                                                                    | LA1-104-1      |                                                   | for models ending in P63 & P64 (excluding G2E145FP64)     | R0A2D61-337                                                                           |           |
|                                      | for G2A & G2L models ending in H64                                                              | LA2-104-1      |                                                   | for models ending in P74                                  | AG31-337-4                                                                            |           |
|                                      | for G2E models ending in P64                                                                    | LA1-6          |                                                   | for models ending in P945, P95, & P96                     | LG3-337-45M                                                                           |           |
|                                      | for G2E145FP64 only                                                                             | LA1-6-NN       |                                                   | for models ending in P1045, P105, & P106                  | AG230-337-5                                                                           |           |
|                                      | for G2A & G2L models ending in P63, P64, or P74                                                 | AG220-4        | 85                                                | Flange Nut                                                |                                                                                       |           |
|                                      | for models ending in P1045, P105, or P106                                                       | AG230-4-1045   |                                                   | for models ending in H64                                  | LA2-388                                                                               |           |
|                                      | for models ending in P9, P945, P95, or P96                                                      | AG230-4-945    |                                                   | for models ending in P63 & P64 (excluding G2E145FP64)     | AG21-337A-3                                                                           |           |
|                                      | for models ending in S10                                                                        | LA52-204-P10   |                                                   | for models ending in P74                                  | AG31-338-4                                                                            |           |
|                                      | for G2L075FS10 only                                                                             | VG-1041        |                                                   | for models ending in P945, P95, & P96                     | AG230-338-45M                                                                         |           |
|                                      | Additional parts for all models ending in G4                                                    |                |                                                   | for models ending in P1045, P105 & P106                   | AG230-338-5                                                                           |           |
| 77                                   | Collet                                                                                          |                | 86                                                | Flange Spacer                                             |                                                                                       |           |
|                                      | for G2E models ending in -G4M                                                                   | DG110-700-6mm  |                                                   | for models ending in P64 & P74 (excluding G2E145FP64)     | LA2-111                                                                               |           |
|                                      | for G2E models ending in -G4                                                                    | DG110-700-G4   |                                                   | for models ending in P1045, P105                          | R3F-286                                                                               |           |
|                                      | for G2A & G2L models ending in -G4M                                                             | G160HD-700-6mm |                                                   | for models ending in P106                                 | AG2-286                                                                               |           |
|                                      | for G2A & G2L models ending in -G4                                                              | G160HD-700-1/4 |                                                   |                                                           |                                                                                       |           |
| 78                                   | Collet Nut                                                                                      |                | 87                                                | Wheel Retaining Screw                                     |                                                                                       |           |
|                                      | for G2E models                                                                                  | AG210-699A     |                                                   | for models ending in P945, P95, & P96                     | LG2-219M                                                                              |           |
|                                      | for G2A & G2L models                                                                            | DG120-699A     | 87A                                               | Hex Key (4mm)                                             | AG2-562                                                                               |           |
|                                      | Additional parts for all wheel models                                                           |                | 88                                                | Wheel Retaining Screw Washer                              |                                                                                       |           |
| 79                                   | Guard Adapter Assembly                                                                          |                |                                                   | for models ending in P945, P95, & P96                     | LG2-218                                                                               |           |
|                                      | for G2E models                                                                                  | LA1-A710       | Accessories for all models                        |                                                           |                                                                                       |           |
|                                      | for G2A & G2L models                                                                            | AG2-A710       | 89                                                | Collet Body/ Arbor Wrench                                 |                                                                                       |           |
| 80                                   | Guard Adapter Screw                                                                             |                |                                                   | for G2A & G2L models ending with G4, S10, P63, P64, & P74 | DG10-69                                                                               |           |
|                                      | for G2E models                                                                                  | 804-634        |                                                   | for G2E models ending with G4                             | DG20-69A                                                                              |           |
|                                      | for G2A & G2L models                                                                            | 95233151       | 90                                                | Collet Nut Wrench                                         |                                                                                       |           |
|                                      | Wheel Guard Assembly                                                                            |                |                                                   | for G2A models ending with G4                             | DG120-69                                                                              |           |
|                                      | for models ending in 63 (3")                                                                    | AG20-A106-3    |                                                   | 91                                                        | Arbor Wrench                                                                          |           |
|                                      | for models ending in 64 and 74 (4")                                                             | AG121-A106-4   |                                                   |                                                           | for G2E models ending with P64 & for G2A & G2L models ending with P1045, P105, & P106 | AG220-340 |
|                                      | for models ending in 945 and 1045 (4.5")                                                        | LA3-A106-45    | for G2A & G2L models ending with P945, P95, & P96 |                                                           | AG230-340M                                                                            |           |
| for models ending in 95 and 105 (5") | LA3-A105-5-EU                                                                                   | 92             | Arbor Bearing Cap Wrench                          |                                                           |                                                                                       |           |
| 81                                   | Wheel Guard                                                                                     |                |                                                   | for G2E models ending with G4 & P64                       | AG210-29                                                                              |           |
|                                      | for models ending in 63 (3")                                                                    |                | AG20-106-3                                        | for G2E models ending with H64                            | LA1-29                                                                                |           |
|                                      | for models ending in 64 and 74 (4")                                                             | AG121-106-4    | 93                                                | Flange Nut Wrench                                         |                                                                                       |           |
|                                      | for models ending in 945 and 1045 (4.5")                                                        | LA3-106-45     |                                                   | for all models ending with P64, P74, P1045, P105, & P106  | D32-26                                                                                |           |
| for models ending in 95 and 105 (5") | LA3-106-5-EU                                                                                    | 94             |                                                   | for G2A & G2L models ending with P945, P95, & P96         | AG3-26M                                                                               |           |
| 81A                                  | Guard Warning Label                                                                             |                | AG2-99G                                           | 95                                                        | Clamp Nut Wrench - for all models                                                     | LA2-253   |
|                                      | Wheel Guard Replacement Kit                                                                     |                |                                                   |                                                           |                                                                                       |           |
|                                      | for models ending in 96 and 106 (6"), Includes Part Number (79, 80, 81A, 83 and 6" wheel guard) | AG2-A106-6     |                                                   |                                                           |                                                                                       |           |
| 82                                   | Guard Lock Washer (3)                                                                           | R2-320-10      |                                                   |                                                           |                                                                                       |           |

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## 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.

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## Related Documentation

For additional information refer to:

Air Grinder Product Safety Information Manual 04584959.

Air Die Grinder Product Safety Information Manual 04580288.

Air Sander Product Safety Information Manual 04580387.

Air Grinder Product Information Manual 04581211 and 04581799.

Air Die Grinder Product Information Manual 04581203.

Air Sander Product Information Manual 04581195.

Manuals can be downloaded from [www.irttools.com](http://www.irttools.com).

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