

**Parts Manual**

**45-8164EN**

PL30-1220

02/14/2012

**OMEGA TECHNOLOGIES**

**DOTCO<sup>®</sup>**

**12-20 Series**  
Inline and Extended Grinders



*For additional product information visit our website at:*

<https://dotcotool.com/product-category/dotco-air-tools/dotco-grinders/dotco-inline-grinders/dotco-12-20-series-inline-grinders/>

|                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|----------|----------|-----------|----------|-----------|-----------|-----------|----------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|-------------------|------------------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                | <b>12</b>           | <b>X</b>        | <b>2</b> | <b>X</b> | <b>XX</b> | <b>-</b> | <b>XX</b> | <b>XX</b> | <b>OH</b> |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>Product Classification</b><br><b>12</b> = Ergonomic Grinder/Sander                                                                                                                                                                                                                                                                                                                                          |                     |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>Throttle Type</b><br><b>L</b> = Locking Lever<br><b>S</b> = Locking Lever                                                                                                                                                                                                                                                                                                                                   |                     |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>Motor Size</b><br><b>2</b> = 0.6 hp                                                                                                                                                                                                                                                                                                                                                                         |                     |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>Handle Style</b><br><b>0</b> = Straight<br><b>1</b> = Extended                                                                                                                                                                                                                                                                                                                                              |                     |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>Speed Options (RPM)</b><br><table border="0"> <tr> <td><b>Front Exhaust</b></td> <td><b>Rear Exhaust</b></td> </tr> <tr> <td><b>00</b> = 25,000</td> <td><b>80</b> = 25,000</td> </tr> <tr> <td><b>01</b> = 20,000</td> <td><b>81</b> = 20,000</td> </tr> <tr> <td><b>02</b> = 18,000</td> <td><b>82</b> = 18,000</td> </tr> </table>                                                                       |                     |                 |          |          |           |          |           |           |           | <b>Front Exhaust</b> | <b>Rear Exhaust</b> | <b>00</b> = 25,000 | <b>80</b> = 25,000 | <b>01</b> = 20,000 | <b>81</b> = 20,000 | <b>02</b> = 18,000 | <b>82</b> = 18,000 |  |                   |                  |  |
| <b>Front Exhaust</b>                                                                                                                                                                                                                                                                                                                                                                                           | <b>Rear Exhaust</b> |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>00</b> = 25,000                                                                                                                                                                                                                                                                                                                                                                                             | <b>80</b> = 25,000  |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>01</b> = 20,000                                                                                                                                                                                                                                                                                                                                                                                             | <b>81</b> = 20,000  |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>02</b> = 18,000                                                                                                                                                                                                                                                                                                                                                                                             | <b>82</b> = 18,000  |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>Termination Code</b><br><b>01</b> = 200 Series Collet<br><b>36</b> = 300 Series Collet (3-piece)<br><b>77</b> = Cone & Plug Wheel (2180 series)                                                                                                                                                                                                                                                             |                     |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>Optional Collet (no extra cost)</b><br><table border="0"> <tr> <td><b>08</b> = 1/8"</td> <td><b>18</b> = 9/32"</td> <td><b>M6</b> = 6mm</td> </tr> <tr> <td><b>10</b> = 5/32"</td> <td><b>20</b> = 5/16"</td> <td><b>M8</b> = 8mm</td> </tr> <tr> <td><b>12</b> = 3/16"</td> <td><b>22</b> = 11/32"</td> <td></td> </tr> <tr> <td><b>14</b> = 7/32"</td> <td><b>24</b> = 3/8"</td> <td></td> </tr> </table> |                     |                 |          |          |           |          |           |           |           | <b>08</b> = 1/8"     | <b>18</b> = 9/32"   | <b>M6</b> = 6mm    | <b>10</b> = 5/32"  | <b>20</b> = 5/16"  | <b>M8</b> = 8mm    | <b>12</b> = 3/16"  | <b>22</b> = 11/32" |  | <b>14</b> = 7/32" | <b>24</b> = 3/8" |  |
| <b>08</b> = 1/8"                                                                                                                                                                                                                                                                                                                                                                                               | <b>18</b> = 9/32"   | <b>M6</b> = 6mm |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>10</b> = 5/32"                                                                                                                                                                                                                                                                                                                                                                                              | <b>20</b> = 5/16"   | <b>M8</b> = 8mm |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>12</b> = 3/16"                                                                                                                                                                                                                                                                                                                                                                                              | <b>22</b> = 11/32"  |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>14</b> = 7/32"                                                                                                                                                                                                                                                                                                                                                                                              | <b>24</b> = 3/8"    |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |
| <b>Overhose Option (extra cost)</b><br><b>OH</b> = Overhose (rear exhaust models only)                                                                                                                                                                                                                                                                                                                         |                     |                 |          |          |           |          |           |           |           |                      |                     |                    |                    |                    |                    |                    |                    |  |                   |                  |  |

**Dotco®**  
Description and Instructions

**45-8164EN**  
02/14/2012

**Language Version:**

This Parts Manual is the ***“Original Instructions”*** intended for all persons who will use or repair these tools.

**Product Identification:**

Refer to the “Model Nomenclature” page in this document.

**Noise and Vibration:**

Refer to documents CE-1007DC and CE-1007TD.

**General Description:**

Air powered inline and extended grinders.

**Intended Use:**

These grinders are intended for material removal applications. Use only for their designated purpose. Do not use as a hammer, lever or other improper usage that can cause tool damage and operator injury.

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**General Safety:**

Refer to General Safety document, CE-2007 for general safety operating instructions for this equipment.

**Lubrication:**

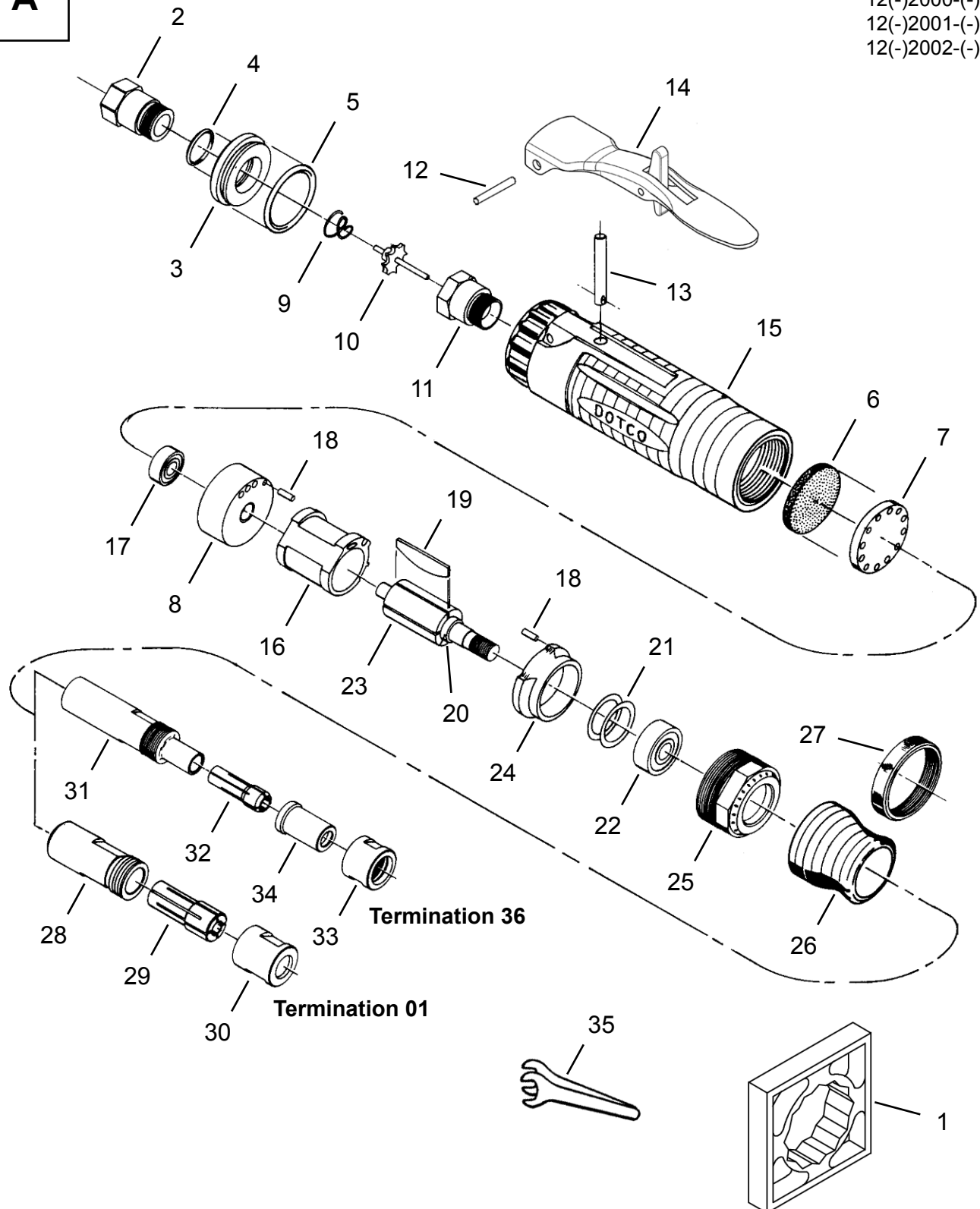
Refer to lubrication document, PL65-LUB, for general lubrication instructions.

**Dotco®**  
Front Exhaust Grinders

**"A"**

**Models**

12(-)2000(-)  
12(-)2001(-)  
12(-)2002(-)



**Dotco®**  
Front Exhaust Grinders

**45-8164EN**  
02/14/2012

**Illustration "A"**

| Ref                    | Number    | # | X  | EN                                   |
|------------------------|-----------|---|----|--------------------------------------|
|                        |           |   |    | Description                          |
| 1                      | 14-0851   | 1 |    | Housing Wrench                       |
| 2                      | 01-2505   | 1 | 1  | Inlet Adapter                        |
| 3                      | 01-2506   | 1 |    | Exhaust Plug                         |
| 4                      | 2965PT    | 1 | 3  | O-Ring                               |
| 5                      | 3036PT    | 1 | 3  | O-Ring                               |
| 6                      | 4293      | 1 | 3  | Filter Disc                          |
| 7                      | 01-2016PT | 1 |    | Filter Retainer                      |
| 8                      | 7003PT    | 1 |    | Rear End Plate (includes 1 Ref. 18)  |
| 9                      | 01-2519   | 1 | 3  | Valve Spring                         |
| 10                     | 01-2518   | 1 | 1  | Valve                                |
| 11                     | 01-2504   | 1 |    | Valve Seat                           |
| 12                     | 1042      | 1 | 1  | Lever Pin                            |
| 13                     | 01-2517   | 1 | 1  | Lever Push Rod                       |
| 14                     | 01-1267   | 1 | 1  | Lock-Off Lever Assembly              |
| 15                     | 01-2001PT | 1 |    | Motor Housing                        |
| 16                     | 2002PT    | 1 |    | Cylinder                             |
| 17                     | 538PT     | 1 | 2  | Ball Bearing                         |
| 18                     | 1041      | 2 | 2  | Pin                                  |
| 19                     | Table "A" | 4 | 12 | Rotor Blade                          |
| 20                     | 2017PT    | 1 |    | Rotor Spacer                         |
| 21                     | 2488PT    | 1 |    | Shim Packet                          |
| 22                     | 500PT     | 1 | 2  | Ball Bearing                         |
| 23                     | 7005      | 1 |    | Rotor (includes Ref. 20)             |
| 24                     | 2256      | 1 |    | Front End Plate (includes 1 Ref. 18) |
| 25                     | Table "A" | 1 |    | Lock Ring                            |
| 26                     | 01-2047PT | 1 |    | Collet Guard (long)                  |
| 27                     | 01-2050PT | 1 |    | Collet Guard (short)                 |
| <b>Termination 01:</b> |           |   |    |                                      |
| 28                     | 2054      | 1 |    | Chuck Body                           |
| 29                     | 208       | 1 | 1  | Collet (1/4")                        |
| 30                     | 2058PT    | 1 |    | Collet Cap                           |
| 35                     | 14-0809   | 1 |    | Wrench (9/16")                       |
|                        | 14-0812   | 1 |    | Wrench (3/4")                        |
| <b>Termination 36:</b> |           |   |    |                                      |
| 31                     | 1400PT    | 1 |    | Chuck Body                           |
| 32                     | 308PT     | 1 | 1  | Collet (1/4")                        |
| 33                     | 1058PT    | 1 |    | Collet Cap                           |
| 34                     | 1053PT    | 1 |    | Nosepiece                            |
| 35                     | 14-0807   | 1 |    | Wrench (7/16")                       |
|                        | 14-0811   | 1 |    | Wrench (11/16")                      |

(#) Quantity  
(X) Recommended Spare Parts

**Table "A"**

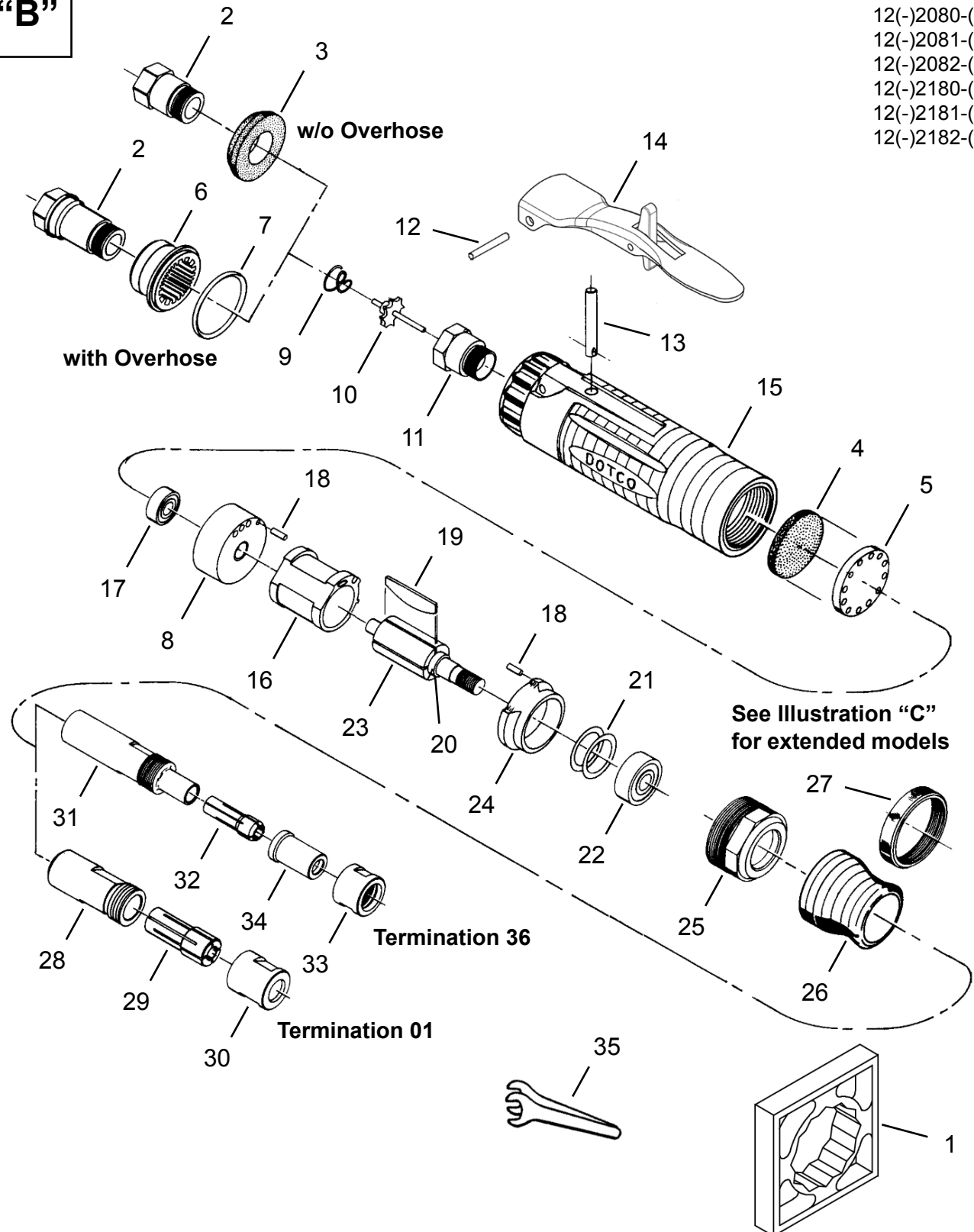
| Ref. | Description | # | 12(-)2000(-) | # | 12(-)2001(-) | # | 12(-)2002(-) |
|------|-------------|---|--------------|---|--------------|---|--------------|
| 19   | Rotor Blade | 4 | 2006PT       | 4 | 2406         | 4 | 2406         |
| 25   | Lock Ring   | 1 | 2014PT       | 1 | 2014PT       | 1 | 2085PT       |

**Dotco®**  
Rear Exhaust Grinders

**"B"**

**Models**

12(-)2080(-)  
12(-)2081(-)  
12(-)2082(-)  
12(-)2180(-)  
12(-)2181(-)  
12(-)2182(-)



**Dotco®**  
Rear Exhaust Grinders

**45-8164EN**  
02/14/2012

**Illustration "B"**

| Ref                    | Number    | # | X  | EN                                   |
|------------------------|-----------|---|----|--------------------------------------|
|                        |           |   |    | Description                          |
| 1                      | 14-0851   | 1 |    | Housing Wrench                       |
| 2                      | Table "B" | 1 | 1  | Inlet Adapter                        |
| 3                      | 01-2520   | 1 | 1  | Diffuser                             |
| 4                      | 4293      | 1 | 3  | Filter Disc                          |
| 5                      | 01-2016PT | 1 |    | Filter Retainer                      |
| 6                      | 01-1032   | 1 | 1  | Muffler                              |
| 7                      | 3036PT    | 1 | 3  | O-Ring                               |
| 8                      | 7003PT    | 1 |    | Rear End Plate (includes 1 Ref. 18)  |
| 9                      | 01-2519   | 1 | 3  | Valve Spring                         |
| 10                     | 01-2518   | 1 | 1  | Valve                                |
| 11                     | 01-2504   | 1 |    | Valve Seat                           |
| 12                     | 1042      | 1 | 1  | Lever Pin                            |
| 13                     | 01-2517   | 1 | 1  | Lever Push Rod                       |
| 14                     | 01-1267   | 1 | 1  | Lock-Off Lever Assembly              |
| 15                     | 01-2001PT | 1 |    | Motor Housing                        |
| 16                     | 2002PT    | 1 |    | Cylinder                             |
| 17                     | 538PT     | 1 | 2  | Ball Bearing                         |
| 18                     | 1041      | 2 | 2  | Pin                                  |
| 19                     | Table "B" | 4 | 12 | Rotor Blade                          |
| 20                     | 2017PT    | 1 |    | Rotor Spacer                         |
| 21                     | 2488PT    | 1 |    | Shim Packet                          |
| 22                     | 500PT     | 1 | 2  | Ball Bearing                         |
| 23                     | 7005      | 1 |    | Rotor (includes Ref. 20)             |
| 24                     | Table "B" | 1 |    | Front End Plate (includes 1 Ref. 18) |
| 25                     | 2445PT    | 1 |    | Lock Ring                            |
| 26                     | 01-2047PT | 1 |    | Collet Guard (long)                  |
| 27                     | 01-2050PT | 1 |    | Collet Guard (short)                 |
| <b>Termination 01:</b> |           |   |    |                                      |
| 28                     | 2054      | 1 |    | Chuck Body                           |
| 29                     | 208       | 1 | 1  | Collet (1/4")                        |
| 30                     | 2058PT    | 1 |    | Collet Cap                           |
| 35                     | 14-0809   | 1 |    | Wrench (9/16")                       |
|                        | 14-0812   | 1 |    | Wrench (3/4")                        |
| <b>Termination 36:</b> |           |   |    |                                      |
| 31                     | 1400PT    | 1 |    | Chuck Body                           |
| 32                     | 308PT     | 1 | 1  | Collet (1/4")                        |
| 33                     | 1058PT    | 1 |    | Collet Cap                           |
| 34                     | 1053PT    | 1 |    | Nosepiece                            |
| 35                     | 14-0807   | 1 |    | Wrench (7/16")                       |
|                        | 14-0811   | 1 |    | Wrench (11/16")                      |

(#) Quantity

(X) Recommended Spare Parts

**Table "B"**

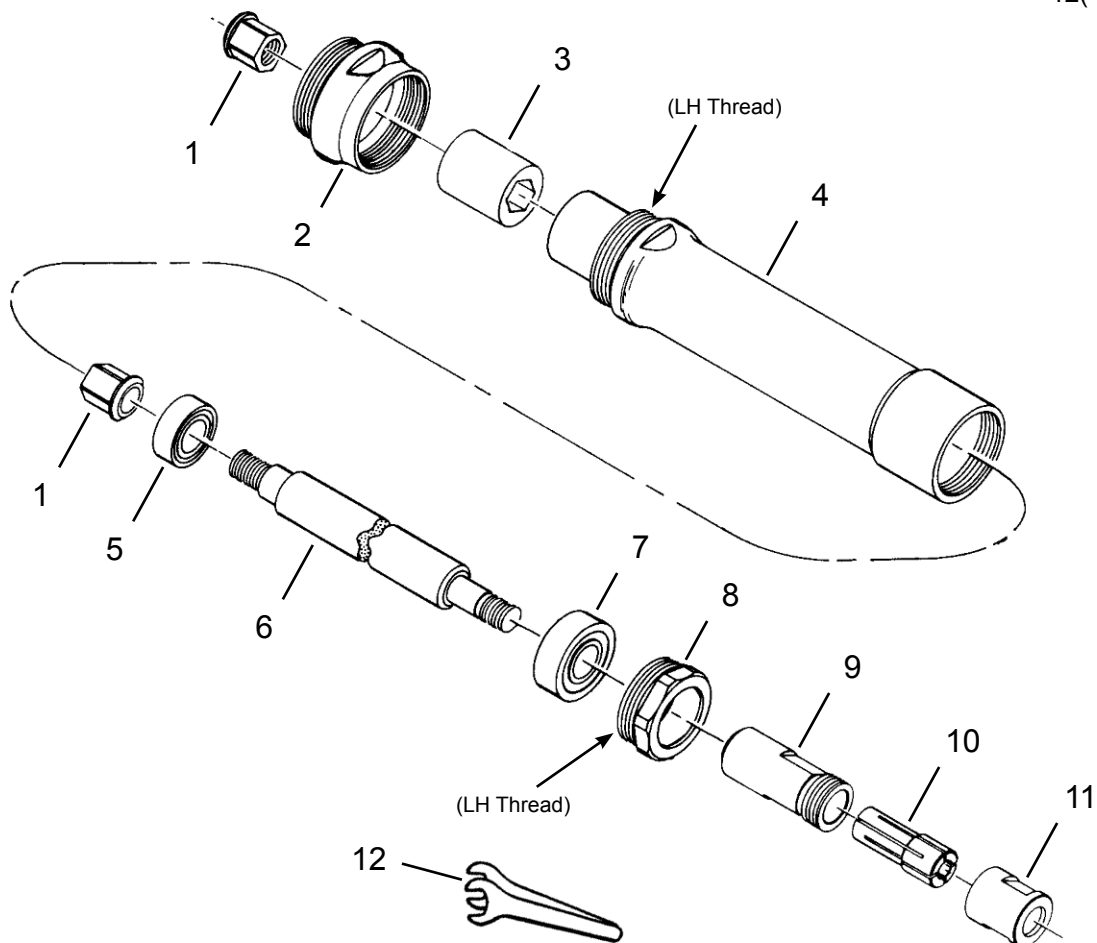
| Ref. | Description            | # | 12(-)2080(-) | # | 12(-)2180(-) | # | 12(-)2081(-)<br>12(-)2082(-) | # | 12(-)2181(-)<br>12(-)2182(-) |
|------|------------------------|---|--------------|---|--------------|---|------------------------------|---|------------------------------|
| 2    | Inlet Adapter (w/o OH) | 1 | 01-2505      | 1 | 01-2505      | 1 | 01-2505                      | 1 | 01-2505                      |
|      | Inlet Adapter (w/ OH)  | 1 | 01-1031      | 1 | 01-1031      | 1 | 01-1031                      | 1 | 01-1031                      |
| 19   | Rotor Blade            | 4 | 2006PT       | 4 | 2006PT       | 4 | 2406                         | 4 | 2406                         |
| 24   | Front End Plate        | 1 | 2256         | 1 | 2292         | 1 | 2256                         | 1 | 2292                         |

**"C"**

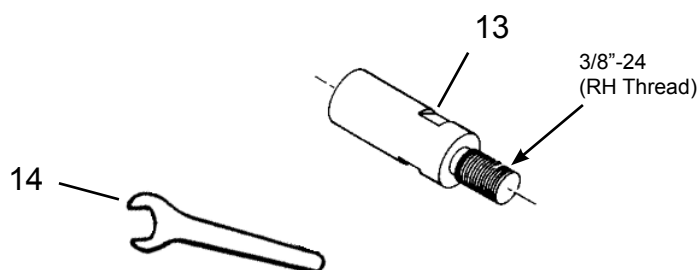
**Models**

12(-)2180(-)  
12(-)2181(-)  
12(-)2182(-)

**Termination 01: 200 Series Collet**



**Termination 77: Cone and Plug Wheel (Types 16-19)**



**Dotco®**  
Extended Grinders

**45-8164EN**  
02/14/2012

**Illustration "C"**

| Ref             | Number    | # | X | EN              |
|-----------------|-----------|---|---|-----------------|
|                 |           |   |   | Description     |
| Termination 01: |           |   |   |                 |
| 1               | 2284      | 2 | 2 | Coupling Nut    |
| 2               | 01-2043PT | 1 |   | Lock Ring       |
| 3               | 2287      | 1 |   | Coupling        |
| 4               | 2700PT    | 1 |   | Spindle Housing |
| 5               | 506PT     | 1 | 2 | Ball Bearing    |
| 6               | 2307PT    | 1 |   | Spindle         |
| 7               | 524PT     | 1 | 2 | Ball Bearing    |
| 8               | 2332PT    | 1 |   | Lock Ring       |
| 9               | 2060PT    | 1 |   | Chuck Body      |
| 10              | 208       | 1 | 1 | Collet (1/4")   |
| 11              | 2058PT    | 1 |   | Collet Cap      |
| 12              | 14-0809   | 1 |   | Wrench (9/16")  |
|                 | 14-0812   | 1 |   | Wrench (3/4")   |
| Termination 77: |           |   |   |                 |
| 13              | 02-7526   | 1 | 1 | Arbor           |
| 14              | 14-0808   | 1 |   | Wrench (1/2")   |

(#) Quantity

(X) Recommended Spare Parts





## Sales & Service Centers

**Note:** All locations may not service all products. Please contact the nearest Sales & Service Center for the appropriate facility to handle your service requirements.

Dallas, TX  
**Apex Tool Group  
Sales & Service Center**  
1470 Post & Paddock  
Grand Prairie, TX 75050  
Tel: 972-641-9563  
Fax: 972-641-9674

Detroit, MI  
**Apex Tool Group  
Sales & Service Center**  
2630 Superior Court  
Auburn Hills, MI 48326  
Tel: 248-391-3700  
Fax: 248-391-7824

Houston, TX  
**Apex Tool Group  
Sales & Service Center**  
6550 West Sam Houston  
Parkway North, Suite 200  
Houston, TX 77041  
Tel: 713-849-2364  
Fax: 713-849-2047

Lexington, SC  
**Apex Tool Group**  
670 Industrial Drive  
Lexington, SC 29072  
Tel: 800-845-5629  
Tel: 803-951-7544  
Fax: 803-358-7681

Los Angeles, CA  
**Apex Tool Group  
Sales & Service Center**  
15503 Blackburn Avenue  
Norwalk, CA 90650  
Tel: 562-623-4457  
Fax: 562-802-1718

Seattle, WA  
**Apex Tool Group  
Sales & Service Center**  
2865 152nd Avenue N.E.  
Redmond, WA 98052  
Tel: 425-497-0476  
Fax: 425-497-0496

York, PA  
**Apex Tool Group  
Sales & Service Center**  
3990 East Market Street  
York, PA 17402  
Tel: 717-755-2933  
Fax: 717-757-5063

Canada  
**Apex Tool Group  
Sales & Service Center**  
5925 McLaughlin Road  
Mississauga, Ont. L5R 1B8  
Canada  
Tel: 905-501-4785  
Fax: 905-501-4786

Germany  
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73463 Westhausen  
Germany  
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Fax: +49 (0) 73 63 81 222

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Fax: +33 1 6443 1717

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Fax: +52 (442) 103-0443

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18087-170 Sorocaba  
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