

## Tool Assembly 3,200 RPM

### Motor Assembly 18254

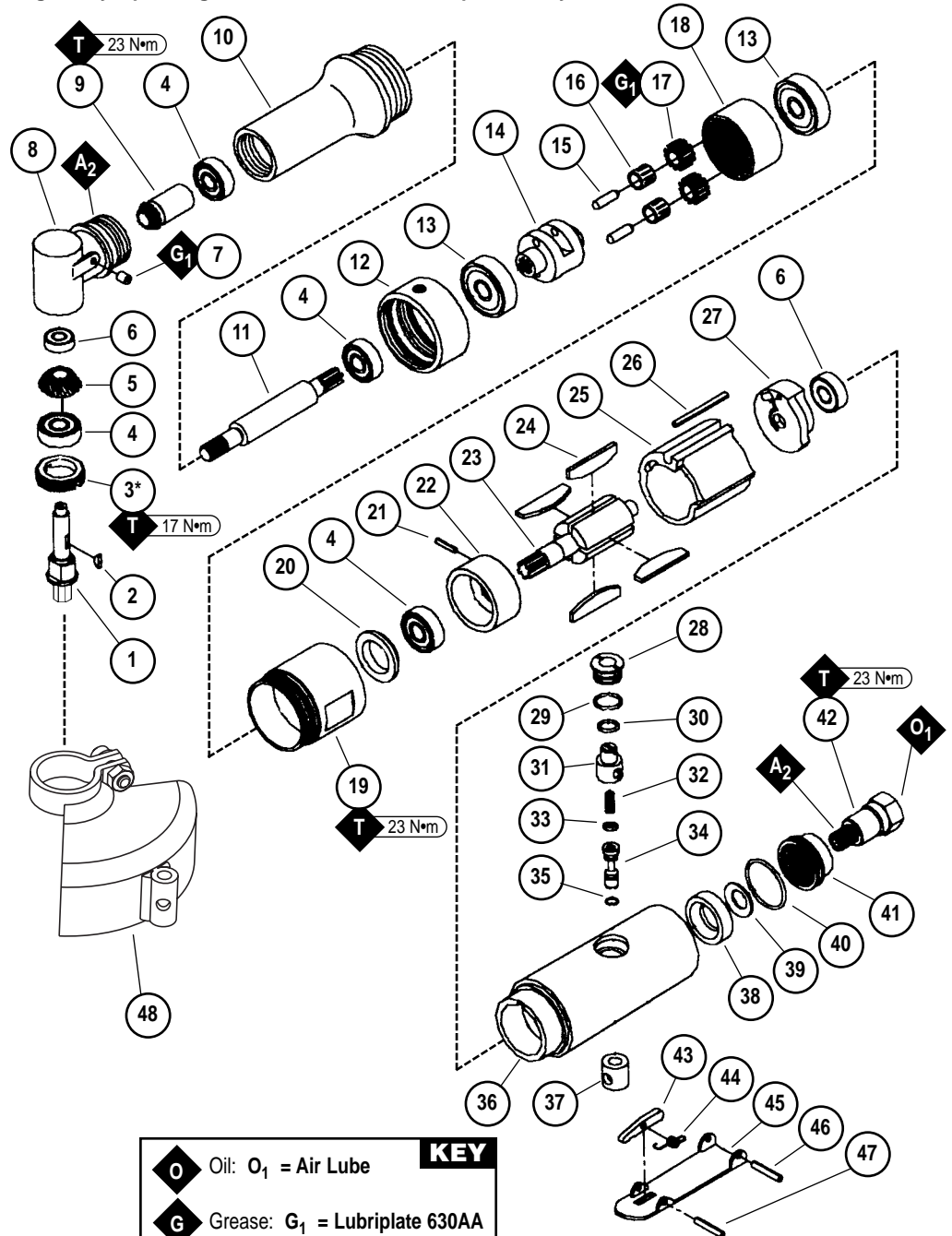
### Air Motor and Machine Parts

#### WARNING

Always operate, inspect and maintain this tool in accordance with the Safety Code for portable air tools (ANSI B186.1) and any other applicable safety codes and regulations. Please refer to Dynabrade's Warning/Safety Operating Instructions for more complete safety information.

#### Index Key

No.	Part #	Description
1	18269	Spindle
2	18443	Key
3	18441	Clamp Nut
4	18428	Ball Bearing (4)
5	18267	Bevel Gear
6	18421	Ball Bearing (2)
7	18447	Grease Fitting
8	18747	Angle Head Housing
9	18268	Pinion
10	18745	Socket
11	18746	Transmission Shaft
12	18744	Coupling
13	18741	Ball Bearing (2)
14	18742	Gear Complete
15	18743	Pin (2)
16	18738	Needle Bearing (2)
17	18737	Pinion Gear (2)
18	18736	Annular Gear
19	18740	Housing Lock Ring
20	18438	Rubber Gasket
21	18436	Pin
22	18427	Front End Plate
23	18739	Rotor
24	18426	Rotor Blade (4/pkg.)
25	18424	Cylinder
26	18423	Cylinder Pin
27	18422	Rear End Plate
28	18420	Valve Screw
29	18419	O-Ring
30	18418	O-Ring
31	18417	Regulator
32	18416	Valve Spring
33	18415	O-Ring
34	18413	Valve Stem
35	18414	O-Ring
36	18400	Motor Housing
37	18412	Valve Bushing
38	18401	Silencer
39	18402	Washer
40	18403	O-Ring
41	18404	Deflector
42	18405	Air Inlet
43	18411	Stop Rod
44	18410	Safety Lever Spring
45	18408	Throttle Lever
46	18407	Lever Pin
47	18409	Spring Pin
48	18270	Guard



KEY	
<b>O</b>	Oil: O <sub>1</sub> = Air Lube
<b>G</b>	Grease: G <sub>1</sub> = Lubriplate 630AA
<b>A</b>	Adhesive: A <sub>2</sub> = Loctite #271
<b>T</b>	Torque: N•m x 8.85 = In. - lbs.

\* Part Involves Left Hand Threads.

See reverse side for Important Operating, Maintenance and Safety Instructions.

## **Autobrade Red Important Operating, Maintenance and Safety Instructions**

Carefully read all instructions before operating or servicing any Dynabrade® Abrasive Power Tool.

**Warning:** Hand, wrist and arm injury may result from repetitive work motion and overexposure to vibration.

**Important:** All Dynabrade air tools must be used with a Filter-Regulator-Lubricator to maintain all warranties.

### **Operating Instructions:**

**Warning:** Eye, face, respiratory, sound, and body protection must be worn while operating power tools. Failure to do so may result in serious injury or death. Follow safety procedures posted in workplace.

1. With power source disconnected from tool, securely fasten abrasive/accessory on tool.
2. Install air fitting into inlet bushing of tool. **Important:** Secure inlet bushing of tool with a wrench before attempting to install the air fitting to avoid damaging valve body housing.
3. Connect power source to tool. Be careful not to depress throttle lever in the process.
4. Check tool speed with tachometer. If tool is operating at a higher speed than the RPM marked on the tool or operating improperly, the tool should be serviced to correct the cause before use.

### **Maintenance Instructions:**

1. Check tool speed regularly with a tachometer. If tool is operating at a higher speed than the RPM marked on the tool, the tool should be serviced to correct the cause before use.
2. Some silencers on air tools may clog with use. Clean and replace as required.
3. All Dynabrade air motors should be lubricated. Dynabrade recommends one drop of air lube per minute for each 10 SCFM (example : if the tool specifications state 40 SCFM, set the drip rate of your filter-lubricator at 4 drops per minute).  
Dynabrade Air Lube (P/N **95842**: 1 pt. 473 ml.) is recommended.
4. All Dynabrade geared motors should be greased. Dynabrade recommends greasing this tool every 50 hours of use.
5. An Air Line Filter-Regulator-Lubricator must be used with this air tool to maintain all warranties. Dynabrade recommends the following: **11405** Air Line Filter-Regulator-Lubricator — Provides accurate air pressure regulation, two-stage filtration of water contaminants and micro-mist lubrication of pneumatic components. Operates 40 SCFM @ 100 PSIG has 3/8" NPT female ports.
6. Use only genuine Dynabrade replacement parts. To reorder replacement parts, specify the **Model #**, **Serial #**, and **RPM** of your machine.
7. Mineral spirits are recommended when cleaning the tool and parts. Do not clean tool or parts with any solvents or oils containing acids, esters, keytones, chlorinated hydrocarbons or nitro carbons.

### **Safety Instructions:**

Products offered by Dynabrade should not be converted or otherwise altered from original design without expressed written consent from Dynabrade, Inc.



- **Important:** User of tool is responsible for following accepted safety codes such as those published by the American National Standards Institute (ANSI).
- Operate machine for one minute before application to workpiece to determine if machine is working properly and safely before work begins.
- Always disconnect power supply before changing abrasive/accessory or making machine adjustments.
- Inspect abrasives/accessories for damage or defects prior to installation on tools.
- Please refer to Dynabrade's Warning/Safety Operating Instructions Tag (Reorder No. **95903**) for more complete safety information.
- **Warning:** Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibration.

### **Autobrade Red Tool Warranty**

Following the reasonable assumption that any inherent defect which might prevail in a product will become apparent to the user within **6 months** from the date of purchase, "Autobrade Red" tools are warranted against defects in workmanship and materials under normal use and service.

**We shall, at our option, repair or replace at our factory, any "Autobrade Red" tool which shall, within 6 months after delivery to the original purchaser, indicate upon our examination to have been defective.**

Our obligation is contingent upon proper use of "Autobrade Red" tools in accordance with factory recommendations, instructions and practices.

**The warranty shall not apply in these cases:**

1. Normally wearable parts such as bearings, rotor blades, etc.
2. Consumables such as sanding pads, etc.
3. Misuse, neglect in maintaining tool or tool modification.
4. Lack of lubrication or evidence of rust, dirt or corrosion.
5. Tools requiring normal tune-up or cleaning.
6. Tools being used after they are badly worn such as using ratchet with worn yoke.
7. Ratchets, anvils damaged by excessive hand torquing.
8. Use in production-type applications.

Products to be considered for warranty must be sent back to our factory, transportation prepaid by the user. Please send tool back to attention of "Repair Department" with note fully explaining the nature of the problem along with a copy of original invoice indicating model and serial number.

Return product to:

Dynabrade, Inc.

Attn: Repair Department

8989 Sheridan Dr.

Clarence, NY **14031**

Visit Our Web Site: [www.dynabrade.com](http://www.dynabrade.com)

