## .4 hp Rotatable Drill

### Right Angle, 9/32"-40 Thread

#### Safety, Operation and Maintenance – Save This Document and Educate All Personnel

Model	Drill Type	RPM	
55584	9/32"-40 Thread	900	

DRILL





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## **A WARNING**

Read and understand this tool manual before operating your air tool. Follow all safety rules for the protection of operating personnel as well as adjacent areas. Always operate, inspect and maintain this tool in accordance with the American National Standards Institute (ANSI). Safety Requirements for the Use, Care and Protection of Abrasive Wheels – ANSI B7.1, Compressed Air and Gas Institute (CAGI) Safety Code for Portable Air Tools – B186.1, Code of Federal Regulation – CFR 29 Part 1910, International Organization for Standardization (ISO) Hand Held Non-Electric Power Tools – Safety Requirements and applicable State and Local Regulations.



Read and understand tool manual before work starts to reduce risk of injury to operator, visitors, and tool.



Eye protection must be worn at all times, eye protection to conform to ANSI Z87.1.



Ear protection to be worn when exposure to sound, exceeds the limits of applicable Federal, State or local statues, ordinances and/or regulations.



Practice safety requirements. Work alert, have proper attire, and do not operate tools under the influence of alcohol or drugs.



Respiratory protection to be used when exposed to contaminants that exceed the applicable threshold limit values required by law.



Air line hazard, pressurized supply lines and flexible hoses can cause serious injury. Do not use damaged, frayed or deteriorated air hoses and fittings.

Some dust created by sanding, grinding, drilling, and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- · Crystalline silica from bricks and cement and other masonry products
- · Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

#### **SAFETY and OPERATING INSTRUCTIONS**



Carefully Read and Understand the General and Sander/Polisher sections found in Tool Safety and Operating Guidelines (PN00001676) Before Handling or Using Tool.

Carefully Read all instructions before operating or servicing any Dynabrade® Abrasive Power Tool. Products offered by Dynabrade are not to be modified, converted or otherwise altered from the original design.

Tool Intent: Drills are intended to be used by professional operators for drilling holes using threaded or colleted drill bits.

#### **DO NOT USE Tool for Anything Other Than Its Intended Applications.**

**Training:** Proper care, maintenance, and storage of your air tool will maximize tools performance and reduce chance for accident. **Employer's Responsibility:** Provide operators with safety instructions and training for safe use of tools and accessories.

Report to Your Supervisor any Condition of the Tool, Accessories or Operation you Consider Unsafe.

#### MAINTENANCE INSTRUCTIONS

Important: To keep tool safe, a Preventative Maintenance Program is recommended. The program should include inspection of the tool and all related accessories and consumables, including air lines, pressure regulators, filters, oilers, etc. (refer to CAGI B186.1 for additional maintenance information). If accessory or tool breakage occurs, investigate failure to determine the cause and correct before issuing tool for work. Use the following schedule as a starting point in developing a Preventative Maintenance Program. If tool does not operate properly (RPM, vibration, start/stop) after these scheduled checks or at any time, the tool must be repaired and corrected before returning tool to use.

#### INSTALLATION

- · To ensure long life and dependable service, use a Closed Loop Air System and Filter-Regulator-Lubricator (FRL) as diagramed below.
- · Each tool should have its own dedicated hose connected to an air supply FRL. Quick disconnects should be installed at the FRL in an effort to reduce contamination into the tool. Securely affix all fittings and hose assemblies.
- · It is strongly recommended that all Dynabrade rotary vane air tools be used with a Filter-Regulator-Lubricator to minimize the possibility of misuse due to unclean air, wet air or insufficient lubrication. Dynabrade recommends the following: 10690 Air Line Filter-Regulator-Lubricator - Provides accurate air pressure regulation, two-stage filtration of water contaminants and micro-mist lubrication of pneumatic components.
- · Dynabrade recommends 1 drop of air lube per minute for each 20 SCFM (example: if the tool specification states 40 SCFM, set the drip rate on the filter-lubricator to 2 drops per minute). 95842 Dynabrade Air Lube is recommended.

#### MAINTENANCE SCHEDULE

Maintenance schedules depend on the type and style of tool. Refer to page 3 to reference symbols associated with specific maintenance items/areas. Match maintenance schedules accordingly. See page 4 for any additional maintenance information.

#### Daily (every 8 hours):

· Inspect tool and accessories for damage or broken parts. Replace items as necessary to ensure proper operation and safety



Lubricate motor as recommended. Use 95842 Dynabrade Air Lube (10W/NR). Apply 1 drop/minute of air lube per 20 SCFM.

- · Check air line pressure with a gage. (MAX. 90 PSIG or 6.2 Bar operating pressure at the air inlet of the tool.)
- · Check tool for proper operation: If operating improperly or demonstrates unusual vibration, the tool must be serviced and problem corrected before further use.

#### Every 20 Hours/Once a Week (which ever comes first):

- Measure RPM (speed) by setting air pressure to 90 PSIG (6.2 Bar) at tool inlet, without accessory mounted, while the tool is running. Using tachometer, check spindle speed of the tool. Unless otherwise stated the no-load speed may not exceed the rated speed. If tool speed exceeds maximum rated RPM, service as required and correct before use.
- · If tool is running too fast: look for worn, damaged or missing governor, air control rings and silencer(s). Service as required.
- · If tool is running too slow: look for malfunctioning governor, clogged inlet screen, silencer(s) or air stream. Service as required.

Note: Special care must be taken when servicing governors. Refer to specific tool manual for governor instructions and/or speed control devices. Governor assemblies made from molded plastic components are non-serviceable and must be replaced.

#### Every 500 Hours:



Both the right angle gears and the planetary gears are packed with 96664 Dynabrade Ultra Gear Grease and neither are externally serviceable. When servicing tools or at a 500-hour interval, flush grease from tool and inspect wear of parts. Replace parts as needed and repack grease areas by liberally applying grease to the areas depicted on pages 3.

#### REPAIR

- · Use only genuine Dynabrade replacement parts to ensure quality. To order replacement parts, specify Model#, Serial# and RPM of your air tool.
- · Mineral spirits are recommended when cleaning the tool and parts. Do not clean tool or parts with any solvents or oils containing acids, esters, ketones, chlorinated hydrocarbons or nitro carbons.
- · A Motor Tune-Up Kit is available which includes high wear and medium wear motor parts.
- · Air tool markings must be kept legible at all times, if not, reorder housing and replace. User is responsible for maintaining specification information.



After maintenance is performed on tool, add a few drops of 95842 Dynabrade Air Lube to the tool inlet and start the tool a few times to lubricate air motor. Verify RPM (per 20 hr maintenance schedule), vibration and operation.

#### **HANDLING & STORAGE**

- · Use of tool rests, hangers and/or balancers is recommended.
- Protect tool inlet from debris (see Notice below).
- · Do Not carry tool by air hose or near the tool throttle lever.
- · Store accessories in protective racks or compartments to prevent damage.
- · Follow the handling instructions outlined in the operating instructions when carrying the tool and when changing accessories.
- · Protect accessories from exposure to water, solvents, high humidity, freezing temperature and extreme temperature changes.

#### END OF USE/DISPOSAL

(6.2 Bar)

Drain Valve ⊨

When tool has reached its end of useful service, disassemble tool into its primary components (i.e. steel, aluminum and plastic) and recycle or discard per local, state and/or federal regulations as to not harm the environment.

#### NOTICE

All Dynabrade air motors use the highest quality parts available and are manufactured to exacting tolerances. Air motor failures are often traced to lack of lubrication or unclean air supply. Compressed air can force dirt and other contaminants into motor bearings causing early failure. Contaminants can score cylinder wall and vanes resulting in reduced efficiency and power. Our warranty obligation is contingent upon proper use of our tools. Air motors which have been subjected to misuse, contaminated air or lack of lubrication will void warranty.

#### CLOSED LOOP AIR SYSTEM Sloped in Direction of Air Flow Air Flow · Dynabrade Air Power Tools are designed to operate at 90 0000 Air Flow to Tool Station PSIG (6.2 Bar) maximum air Regulator pressure at the tool inlet, **Filter** Lubricator when the tool is running. Use Refrigerated Air Dryer recommended regulator to control air pressure. Ball · Ideally the air supply should Valve be free from moisture. To Ball Valve facilitate removing moisture Drain Air Hose 90 PSIG Valve from air supply, the installation Drain of a refrigerated air dryer after Air Flov the compressor and the use of drain valves at each tool station is recommended. Air Compressor and Receiver Air Tool 90 PSIG Max

#### **Lubricator Setting**

1 Drop/Minute per 20 SCFM

# **Models** 55584 - 9/32"-40 Thread (16) (10)6 33 KEY Adhesive: $A_2$ = Loctite #271 $A_8$ = Loctite #567 $A_{10}$ = Loctite #243 X = Torque Value (N•m) Torque: $N \cdot m \times 8.85 = Ib \cdot in$ . Grease: G<sub>4</sub> = Ultra Gear Grease 10W/NR Air Tool Oil Always follow adhesive manufacturers cleaning and priming recommendations.

# .4 hp Rotatable Drill Complete Assembly

ITEM	P/N	DESCRIPTION	QTY
1	58564	BEARING CAP	1
2 54537		BEARING	1
3	58568	SPINDLE	1
4	54542	BEARING	2
5	54561	SHIM	A/F
6	54562	SHIM	A/F
7	58562	HOUSING	1
8	96783	SET SCREW	1
9	54546	BEVEL GEAR	1
10	58673	SPINDLE	1
11	01139	BEARING	1
12	54540	RETAINING NUT	1
13	58563	HOUSING	1
14	96785	WAVE WASHER	1
15	58560	ANGLE ADJUSTER	1
16	96768	O-RING	1
17	58561		1
		ADAPTOR	+
18	98786	SHIM	1
19	53450	SPLINE	1
20	54520	BEARING	4
21	50787	PLANETARY CARRIER	1
22	06213	GEAR ASSEMBLY	4
22.1	54569	GEAR	1
22.2	01033	BEARING	1
23	54472	SHAFT	4
24	54468	RING GEAR	2
25	58599	GEAR CASE	1
26	50778	SPACER	1
27	53150	PINION	1
28	58565	GEAR CASE	1
29	02649	BEARING	1
	020.0		
30	54529	SHIM PACK (4/PKG)	A/F
		SHIM PACK (4/PKG) END PLATE	A/I
30	54529	` ,	_
30 31	54529 01478	END PLATE	1
30 31 32	54529 01478 50767	END PLATE PIN	1 2
30 31 32 33	54529 01478 50767 01479	END PLATE PIN SPACER VANE (4/PKG)	1 2
30 31 32 33 34 35	54529 01478 50767 01479 01480 45291	END PLATE PIN SPACER VANE (4/PKG) ROTOR	1 2 1
30 31 32 33 34 35 36	54529 01478 50767 01479 01480 45291 01476	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER	1 2 1 1 1
30 31 32 33 34 35 36 37	54529 01478 50767 01479 01480 45291 01476 02676	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE	1 2 1 1 1 1 1
30 31 32 33 34 35 36 37 38	54529 01478 50767 01479 01480 45291 01476 02676 02696	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING	1 2 1 1 1 1 1
30 31 32 33 34 35 36 37 38	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE	1 2 1 1 1 1 1 1 1
30 31 32 33 34 35 36 37 38 39 40	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30 31 32 33 34 35 36 37 38 39 40	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30 31 32 33 34 35 36 37 38 39 40 41	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320 45305	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER HOUSING	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30 31 32 33 34 35 36 37 38 39 40 41 42 43	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320 45305 45315	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER HOUSING BUSHING	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30 31 32 33 34 35 36 37 38 39 40 41 42 43	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320 45305 45315 58597	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER HOUSING BUSHING PIN	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320 45305 45315 58597 09722	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER HOUSING BUSHING PIN SLEEVE	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320 45305 45315 58597	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER HOUSING BUSHING PIN SLEEVE O-RING	11 22 11 11 11 11 11 11 11 11 11
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30 31 32 33 34 35 36 37 38 40 41 42 43 44 45 46 47 48 49 50	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320 45305 58597 09722 96077 45263 97060 58596 01472	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER HOUSING BUSHING PIN SLEEVE O-RING THROTTLE LEVER PIN SEAL TIP VALVE	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320 45305 45315 58597 09722 96077 45263 97060 58596 01472 52943	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER HOUSING BUSHING PIN SLEEVE O-RING THROTTLE LEVER PIN SEAL TIP VALVE SPRING	11 11 11 11 11 11 11 11 11 11 11 11 11
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30 31 32 33 34 35 36 37 38 40 41 42 43 44 45 46 47 48 49 50 51 52 53 53.1 53.2 53.3	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320 45305 45315 58597 09722 96077 45263 97060 58596 01472 52943 01564 94535 95711 01486 96065	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER HOUSING BUSHING PIN SLEEVE O-RING THROTTLE LEVER PIN SEAL TIP VALVE SPRING AIR CONTROL RING MUFFLER ASSEMBLY SNAP RING FELT SILENCER O-RING	1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 53.1 53.2 53.3 53.4	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320 45305 45315 58597 09722 96077 45263 97060 58596 01472 52943 01564 94535 95711 01486 96065 01446	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER HOUSING BUSHING PIN SLEEVE O-RING THROTTLE LEVER PIN SEAL TIP VALVE SPRING AIR CONTROL RING MUFFLER ASSEMBLY SNAP RING FELT SILENCER O-RING AIR DEFLECTOR	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 53.1 53.2 53.3 53.4 53.5	54529 01478 50767 01479 01480 45291 01476 02676 02696 45269 01547 45320 45305 45315 58597 09722 96077 45263 97060 58596 01472 52943 01564 94535 95711 01486 96065 01446 95620	END PLATE PIN SPACER VANE (4/PKG) ROTOR CYLINDER REAR BEARING PLATE BEARING GOVERNOR-BLUE INSULATOR COLLAR GOVERNOR CHAMBER HOUSING BUSHING PIN SLEEVE O-RING THROTTLE LEVER PIN SEAL TIP VALVE SPRING AIR CONTROL RING MUFFLER ASSEMBLY SNAP RING FELT SILENCER O-RING AIR DEFLECTOR RETAINING RING	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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#### LIFETIME WARRANTY

To validate Dynabrade Lifetime Warranty, you must register each tool at: www.dynabrade.com. Registration of each tool at website is required. Dynabrade will not honor Lifetime Warranty on unregistered tools. Please view the entire Lifetime Warranty Policy at: www.dynabrade.com. WARRANTY



#### **MACHINE SPECIFICATIONS**

Model	Speed	Power	Air Consumption	Air Pressure	Weight	Length	Gear Head Height
55584	900 RPM	.4 hp (298 W)	26 SCFM (736 LPM)	90 PSIG (6.2 Bars)	2.3 lb. (1 kg)	11.7" (298 mm)	1" (26 mm)

Additional Specifications: Air Inlet Thread 1/4" NPT • Hose I.D. 5/16" (8 mm) Sound Level is the pressure measurement according to the method outlined in ISO regulation ISO-15744

#### OPTIONAL ACCESSORIES



#### Motor Tune-Up Kit

· Includes assorted parts to help maintain and repair motor.

Part No. 96820



#### Dynaswivel®

 Swivels 360° at two locations which allows an air hose to drop straight to the floor, no matter how the tool is held.

Part No. 94300 - 1/4" NPT.



#### Dynabrade Air Lube

- Formulated for pneumatic equipment.
- Absorbs up to 10% of its weight in water.
- Prevents rust and formation of sludge.
- Keeps pneumatic tools operating longer with greater power and less down time.

Part No. 95842: 1pt. (473 ml) Part No. 95843: 1 gal. (3.8 L)



#### Overhose Assembly

 Redirects exhaust away from operator.

#### Part No. 94995

· For use with extended exhaust models only.

**Ultra Gear Grease** 

Multi-purpose grease for all types

resistance to water, steam, etc.

Part No. 96664: 1.6 oz. (45 g) Tube.

Workable range 0° F to 300° F

of bearings, cams, gears.

· High film strength; excellent

#### REPAIR TOOLS



#### Hex Key Wrench

- 12 mm hex
- · Use in housing core or air inlet.

Part No. 96399



#### Hex Key Wrench

- 5/8" hex
- · For removal/tightening of 54540 retaining nut.

Part No. 96782

**Lock Ring Tools** 

Part No. 96165



#### **Crowfoot Wrench**

#### Part No. 96460

- 3/8" Drive
- · Use on throttle body, housing core and 58565 Gear Case.

#### Part No. 96780

- 28 mm
- · For removal/tightening of 58562 housing.

#### Part No. 96781

- 36 mm
- For removal/tightening of 58560 angle adjuster.



#### of 58564 Bearing Cap.

Part No. 96765 For removal/tightening of 58563 Housing.

For removal/tightening

#### REFERENCE CONTACT INFORMATION

**American National Standards Institute (ANSI)** www.ansi.org

Compressed Air & Gas Institute (CAGI) www.cagi.org

**European Committee for Standardization (PNEUROP)** www.pneurop.org

International Organization of Standards (ISO) www.iso.org

U.S. Government Publishing Office (GPO) www.gpo.gov



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