Models:

13400 - 3,400 RPM

13410 - 3,400 Versatility Kit

13411 - 3,400 Versatility Kit

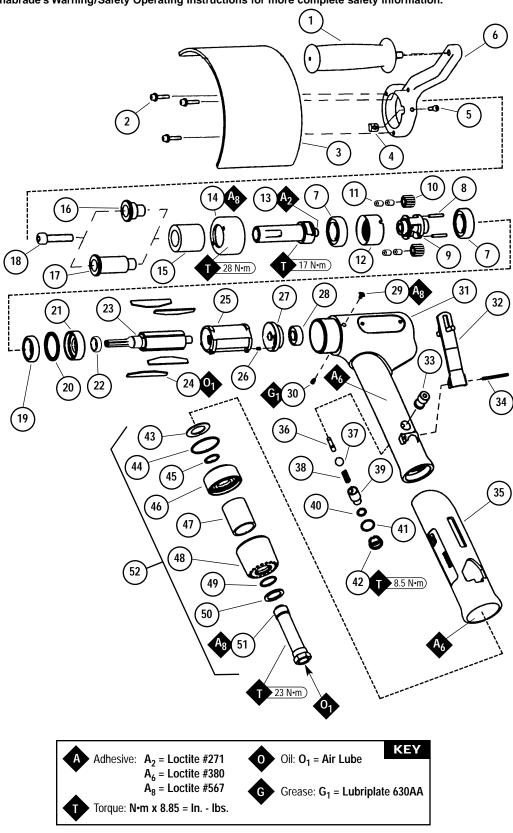
.7 Hp Dynisher

Air Motor and Machine Parts

AWARNING

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.

	XX	AITIVIIVE	C
Ind	ex Ke	У	
	Part #		
1	53163	Handle Assembly	
	96278		
3	13442	Shroud	
4	40029 01678	Cam Lock	
	53167	Handle Support	
7	02552	Bearing (2)	
8	53182 53180	/ /	
	53193		
11 12	04026	Bearing (4)	
12	53191 13433	Ring Gear Arbor Adapter	
	13432		
15	50750	Spacer Spacer	
		•	
17	13434 13441	Flange	
	96264		
		Bearing	
20	01121	Shim Pack	
21	53183	Shim Pack Front End Plate	
	01010		
	04017		
2/	01125	Rlados (Alnka)	
25	01028	Cylinder	
26	50767	Pin	
27	13440	Rear End Plate	
28	02649	Bearing Screw	
29			
30		Grease Fitting	
31		Housing Assy.	
		es 13436 Bushing	
22		1 Grease Fitting) Safety Throttle Lever	
32 33			
34	01017	Bushing	
35	12/128	Handle Grip	
36	13435	Valve Stem	
37	13439	Ball	
38	07145	Spring	
39	13437	Speed Regulator	
40	01024	O-Ring	
41	13428	Packing	
42	13427	Regulator Plug	
43	01565	Air Control Ring	
44	95438	O-Ring	
45	95711	Retaining Ring	
46	94521	Muffler Base	
47	94528	Muffler	
48	94522	Muffler Cap	
49	95375	O-Ring	
50	94526	Spacer	
51	94523	Inlet Adapter	
52	94519	Muffler Assembly	



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 rotary vane 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 rotary vane 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: 1pt. 473ml.) is recommended.
- 4. 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: 11299 Air Line Filter-Regulator-Lubricator Provides accurate air pressure regulation, two-stage filtration of water contaminants and micro-mist lubrication of pneumatic components.
 Operates up to 100 CFM @ 100 PSIG has 1/2" NPT female ports.
- 5. Lubricate planetary gears through the gear casing grease fitting with 2-3 plunges for every 50 hours of use, to achieve maximum gear life (order 95542 Grease and 95541 Gun).
- 6. Use only genuine Dynabrade replacement parts. To reorder replacement parts, specify the Model #, Serial # and RPM of your machine.
- 7. A Motor Tune-Up Kit (P/N 96234) is available which includes assorted parts to help maintain motor in peek operating condition. Please refer to Dynabrade's Preventative Maintenance Schedule for a guide to expectant life of component parts.
- 8. 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.

Notice

All Dynabrade motors use the highest quality parts and metals available and are machined to exacting tolerances. The failure of quality pneumatic motors can most often be traced to an unclean air supply or the lack of lubrication. Air pressure easily forces dirt or water contained in the air supply into motor bearings causing early failure. It often scores the cylinder walls and the rotor blades resulting in limited efficiency and power. Our warranty obligation is contingent upon proper use of our tools and cannot apply to equipment which has been subjected to misuse such as unclean air, wet air or a lack of lubrication during the use of this tool.

One Year Warranty

Following the reasonable assumption that any inherent defect which might prevail in a product will become apparent to the user within one year from the date of purchase, all equipment of our manufacture is warranted against defects in workmanship and materials under normal use and service. We shall repair or replace at our factory, any equipment or part thereof which shall, within one year after delivery to the original purchaser, indicate upon our examination to have been defective. Our obligation is contingent upon proper use of Dynabrade tools in accordance with factory recommendations, instructions and safety practices. It shall not apply to equipment which has been subject to misuse, negligence, accident or tampering in any way so as to affect its normal performance. Normally wearable parts such as bearings, contact wheels, rotor blades, etc., are not covered under this warranty.

Model	Motor	Motor	Air Inlet	Sound	Air Flow Rate	Machine Dia.	Wheel Arbor Dia.	Weight	Length	Height
Number	HP (W)	RPM	Thread	Level	CFM/SCFM (LPM)	Inch (mm)	Inch (mm)	Pound (kg)	Inch (mm)	Inch (mm)
13400	.70 (522)	3,400	1/4" NPT	88 dB(A)	6/44 (1,246)	1-13/16 (46mm)	3/4 (19mm)	4.6 (2)	10-3/4 (274)	

Additional Specifications: Hose I.D. Size 3/8" (10mm) • Max. SFPM 4450 (SMPM 1350) • 90 PSIG (6.2 Bars)

Disassembly/Assembly Instructions - Dynisher

Important: Manufacturer's warranty is void if tool is disassembled before warranty expires. Please refer to parts breakdown for part identification.

Motor Disassembly:

- 1. Disconnect tool from power source. Remove pneumatic wheel or accessory from spindle.
- 2. Loosen 01678 Lock Screw and remove handle assembly. Remove flange and spacer from motor shaft.
- 3. Secure motor housing using padded vise with motor spindle facing upwards.
- 4. Using an adjustable pin wrench, remove 13432 Spindle Cover.
- 5. Remove 04014 Set Screw from housing.
- 6. Pull 13433 Arbor Adapter and planetary carrier assembly from housing.
- 7. Press planetary carrier assembly from rear 02552 Bearing. Remove ring gear and gears from 53180 Planetary Carrier.
- 8. Secure planetary carrier in vise and remove 13433 Arbor Adapter. Press carrier from front 02552 Bearing.
- 9. Grab onto 04017 Rotor/Pinion and pull motor assembly from motor housing.
- 10. Press 04017 Rotor/Pinion from 13440 Rear Bearing Plate. Press 02649 Rear Bearing from rear bearing plate.
- 11. Remove 01028 Cylinder and 01185 Rotor Blades from rotor.
- 12. Press rotor pinion assembly through 01007 Front Bearing and 53183 Front Bearing Plate.

Motor Disassembly Complete.

Housing Disassembly:

- 1. Position housing in padded vise with air inlet facing up.
- Remove air fitting by securing 94523 Inlet Adapter with a wrench and twist air fitting from inlet adapter.
 Important: 94523 Inlet Adapter must be secured before attempting to remove air fitting to avoid damaging valve body housing.
- 3. Remove 94523 Inlet Adapter.
- Remove 95711 Retaining Ring from inlet adapter and separate 94521 Muffler Base from 94522 Muffler Cap. Remove 94528 Felt Muffler.
- 5. Remove 01565 Air Control Ring from housing.
- 6. Using a 2.5 mm drift pin, tap 01017 Pin from housing and remove throttle lever assembly.
- 7. Remove 13427 Plug. Pull 13437 Speed Regulator from housing and remove 01024 O-Rings, 07145 Spring, 13439 Ball, and 13435 Valve Stem.

Disassembly Complete.

Motor Assembly:

Important: Be sure parts are clean and in good repair before assembly. Follow all grease, oil, and torque specifications.

- 1. Place 04017 Rotor in padded vise with threaded spindle facing upwards.
- 2. Slip 01010 Spacer onto 04017 Rotor.
- 3. Place a .002" shim into 53183 Front Bearing Plate as an initial spacing and slip 01007 Bearing into plate. Note: 01121 Shim Pack contains .001" and .002" shims.
- Press bearing/bearing plate assembly onto rotor.
- 5. Check clearance between rotor and bearing plate by using a .001" feeler gauge. Clearance should be at .001" to .0015". Adjust clearance by repeating steps 2-4 with different shim if necessary.
- Once proper rotor gap clearance is achieved, install well lubricated 01185 Blades (4) into rotor slots. Dynabrade recommends using their 95842 Air Lube.
- Install cylinder over rotor/pinion. Be sure air inlet holes of cylinder face away from 53183 Front Bearing Plate.
- 8. Press 02649 Rear Bearing into 13440 Rear Bearing Plate. Press bearing/bearing plate assembly onto rotor. Be sure that pin and air inlet holes line up with pin slot and air inlet holes in cylinder. Important: Fit must be snug between bearing plates and cylinder. If too tight, rotor will not turn freely. Rotor must then be lightly tapped at press fit end so it will turn freely while still maintaining a snug fit. A loose fit will not achieve the proper preload of motor bearings.
- 10. Secure motor housing in padded vise so motor cavity faces upwards. Install motor assembly into housing. Be sure motor inlet is facing the handle and it drops all the way into housing.
- 11. Press front **02552** Bearing onto front end of **53180** Planetary Carrier.
- 12. Apply #271 Loctite® to 13433 Arbor Adapter and install onto 53180 Planetary Carrier (torque 17.0 N•m/150 in. lbs.).
- 13. Install 53193 Gears, 04026 Bearings and 53182 Gear Shafts onto planetary carrier.
- 14. Slip 53191 Ring Gear over gears and press rear 02552 Bearing onto planetary carrier.
- 15. Apply two drops of #271 Loctite® to threads of 13432 Spindle Cover.
- 16. Install 13432 Spindle Cover onto housing to secure motor (torque 28 N•m/250 in. lbs.).

Motor Assembly Complete.

Housing Assembly:

- 1. Install 13438 Handle Grip.
- 2. Insert 13435 Valve Stem through housing and into hole in 13436 Bushing.
- 3. Insert 13439 Ball, 07145 Spring, 13437 Speed Regulator with 01024 O-Ring in place.
- Install 13428 Packing onto 13427 Regulator Plug. Secure plug in place torque 8.5 N·m/75 in. lbs.
- 5. Insert 94528 Muffler into 94522 Muffler Cap. Install 94521 Muffler Base onto muffler cap.
- 6. Install 94538 O-Ring into groove on muffler base. Place 95375 O-Ring and 94526 Spacer into recessed area of muffler cap.

(continued on next page)

Disassembly/Assembly Instructions (continued)

- 7. Slip 94523 Inlet Adapter through muffler assembly and install 95711 Retainer Ring into groove on inlet adapter.
- 8. Install 01565 Air Control Ring into housing.
- 9. Apply Loctite® #567 to threads of 94523 Inlet Adapter and install entire muffler assembly onto housing inlet (torque 23.0 N•m/200 in. lbs.).
- 10. Replace air fitting. Secure inlet adapter with a wrench before tightening air fitting.
- 11. Install throttle lever and 01017 Pin.

Tool Assembly is complete. Please allow 30 minutes for adhesives to cure before operating tool.

Important: Motor should now be tested for proper operation at 90 PSIG. If motor does not operate properly or operates at a higher RPM than marked on the tool, the tool should be serviced to correct the cause before use. Before operating, place 2-3 drops of Dynabrade Air Lube (P/N **95842**) directly into air inlet with throttle lever depressed. Operate tool for 30 seconds to determine if tool is operating properly and to allow lubricating oils to properly penetrate motor. Loctite® is a registered trademark of Loctite Corp.

Optional Accessories



Dynaswivel®

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

Note: For proper connection to a 1/4" NPT thread a reducing bushing is required.

• 95461 3/8" NPT.



96234 Motor Tune-Up Kit

 Includes assorted parts to help maintain and repair motor.



94473 Dynacushion® Pneumatic Wheel

- Easily regulate hardness by air pressure.
- 5" Diameter x 3-1/2" Wide.
- Inflates to 20 PSIG maximum.
- 3-1/2" wide x 15-1/2" long belt size.



94465 Wheel Inflation Tool

- Controlled inflation/deflation of pneumatic wheel.
- Has 1/4" female thread; fits 1/4" air hose.
- 95633 Nozzle Replacement available.



95542 Grease 10 oz.

- Multi-purpose grease for all types of bearings, cams, gears.
- High film strength; excellent resistance to water, steam, etc.
- Workable range 0° F to 300° F.

95541 Push-type Grease Gun

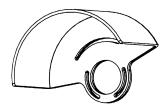
One-hand operation



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.

95842: 1 pt. (473 ml) **95843:** 1 gal. (3.8L)



53159 Shroud Assembly

 Extended length to enclose 4 inch wide abrasive accessories.



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