

# 8" Random Orbital Head Assemblies

## Assembly Conversion Instructions

SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL

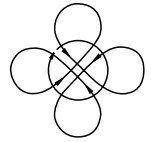
### Accessory:

**61374 – Accepts 5/8"-11 Spindle Thread**  
**– 3,200 Maximum RPM**

**61375 – Accepts M14 x 2 Spindle Thread**  
**– 3,200 Maximum RPM**



**3/4" Random  
Orbit Motion**



### SAFETY INSTRUCTIONS

Carefully Read all instructions before operating or servicing any Dynabrade® Accessory.

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

**Accessory Intent:** Random Orbital Head Assemblies are ideal for expanding the versatility of any equipt 5/8"-11 or M14 x 2 spindle power tool.

**Do Not Use accessory for anything other than random orbital buffing/polishing applications.**

**This accessory is not intended for use in potentially explosive atmospheres and is not insulated against contact with electrical power.**

**Training:** Proper care, maintenance, and storage of your tool/accessory will maximize their performance.

- Employer's Responsibility – Provide power tool operators with safety instructions and training for safe use of tools and accessories.

#### Accessory Selection:

- Abrasive/accessory RPM (speed) rating MUST be approved for AT LEAST the tool or accessory RPM rating.
- Before mounting an accessory, visually inspect for defects. Do not use defective accessories.
- Follow tool/accessory specifications before choosing size and type of accessory.

### OPERATING INSTRUCTIONS

**Warning:** Always wear personal protective equipment.

**Caution:** After installing the accessory, before testing or use and/or after reassembling tool, the Random Orbital Head Assembly must be started at a reduced speed to check for good balance. Gradually increase tool speed. DO NOT USE if tool vibration is excessive. Correct cause, and retest to insure safe operation.

- **Please refer to original manufacturers tool specifications for maximum RPM rating and any other safety requirements.**  
**Power Tool RPM must never exceed accessory RPM rating of 3,200 RPM.**
- Check accessory for details on maximum operating speed, special mounting instructions are provided on page 2.
- Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibration.
- Keep hand and clothing away from working end of the power tool.
- Be sure that any loose clothing, hair and all jewelry is properly restrained.
- BEFORE MOUNTING AN ACCESSORY, after all tool repairs and whenever a Random Orbital Head Assembly is issued for use, check tool RPM/OPM (speed) with tachometer while the tool is running. If tool is operating at a higher speed than the RPM marked on the tool housing, or operating improperly, the tool must be serviced and corrected before use.
- Disconnect tool from power supply when changing accessories.
- Ensure that self-fixing and hook accessories are mounted concentrically.
- Make sure that work area is uncluttered, and visitors are at a safe range from the tools and debris. Potentially explosive atmospheres can be caused by dust and fumes resulting from buffing or polishing. Always use dust extraction or suppression systems which are suitable for the material being processed.
- Proceed with caution in unfamiliar surroundings. Hidden hazards may exist, such as electricity or other utility lines.
- When applicable use a vise or clamping device to hold work piece firmly in place.
- Work may generate hazardous dust.
- Do not apply excessive force on tool/accessory or apply "rough" treatment to it.
- Always work with a firm footing, posture and proper lighting.
- Ensure that sparks and debris resulting from work do not create a hazard.

**REPORT TO YOUR SUPERVISOR ANY CONDITION OF THE TOOL, ACCESSORIES, OR OPERATION YOU CONSIDER UNSAFE.**

# Power Tool/Random Orbital Head Assemblies

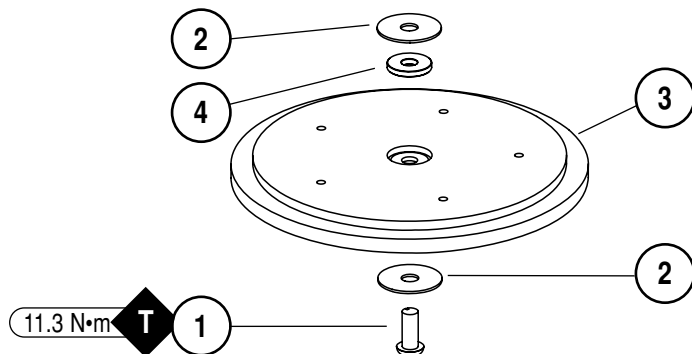
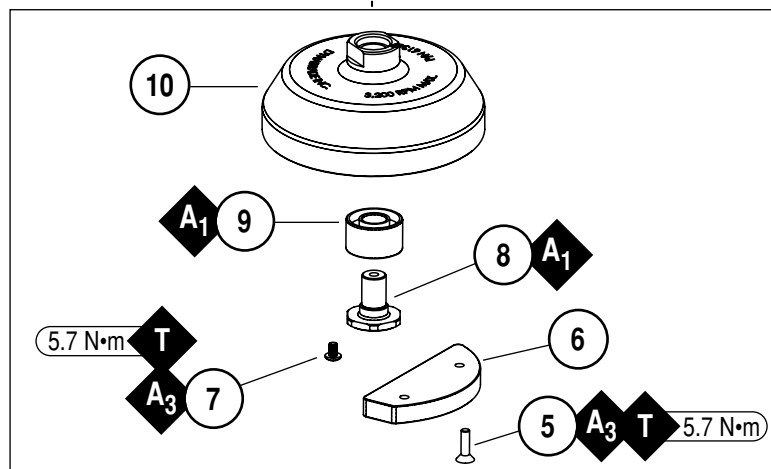
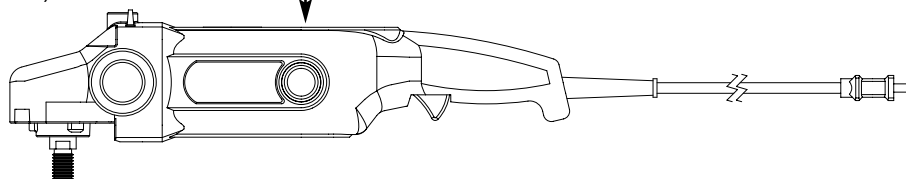
## Dynabrade Models Ready To Accept Accessory:

Electric: 51580  
Premium Air: 51392, 51396 (M14)  
Autobrade Air: 18050, 18053 (M14)

## Power Tool

(5/8"-11 Spindle) or (M14 x 2 Spindle)

**MAXIMUM TOOL RPM MUST  
NOT EXCEED RATING OF 3,200 RPM.**



<b>A</b>	Adhesive: A <sub>1</sub> = Loctite #609 A <sub>3</sub> = Loctite #243	<b>KEY</b>
<b>T</b>	Torque: N·m x 8.85 = In. - lbs.	

### Index Key

No.	Part #	Description
1	96168	Screw
2	94594	Washer (2)
3	50855	Pad
4	94595	Spacer
5	95217	Screw (2)
6	61373	Counterweight
7	95235	Screw (3)
8	57069	Balancer Shaft
9	56052	Bearing
10	61371	Orbital Head - 5/8"-11
	61372	Orbital Head - M14 x 2
11	61369	Orbital Assy. - 5/8"-11
	61370	Orbital Assy. - M14 x 2
12	90082	Natural Sheep Skin Buff
13	50679	Open-end Wrench (26mm)
14	95049	Hex Wrench (3/16")



All Random Orbital  
Assemblies Include  
90082 Natural Sheep  
Skin Buff.

## Installation/Pad Change/Storage

### Random Orbital Head Installation Procedure:

1. Make spindle stationary; use spindle lock if applicable and/or an open-end wrench to hold spindle.
2. Install orbital head assembly onto spindle and tighten.
3. Tool will now accept desired pad accessory.
4. Connect machine to power supply and check for proper operation.

### Random Orbital Head Assembly Installation Complete.

### Storage/Handling:

- Do not rest tool on pad edge - may cause distortion of pad.
- Use of tool rest and/or balancers are recommended.

### Pad Change Procedure:

1. Disconnect tool from power supply.
2. Make sure pad is facing up, use 50679 Open-end Wrench to hold hex of balancer shaft (hex portion of part located between, 61369/61370 Orbital Head Assembly and backing pad) use 95049 (3/16") Hex Wrench to remove 96168 Screw and backing pad.
3. Change pad and fasten with one 96168 Screw until tight.  
**Note:** When installing pad remember to use the correct spacer and washers to ensure a proper fit, see diagram above.
4. Tool will now accept desired pad accessory.

### Pad Change Complete.

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PD06.29\_rev.1\_08/06

