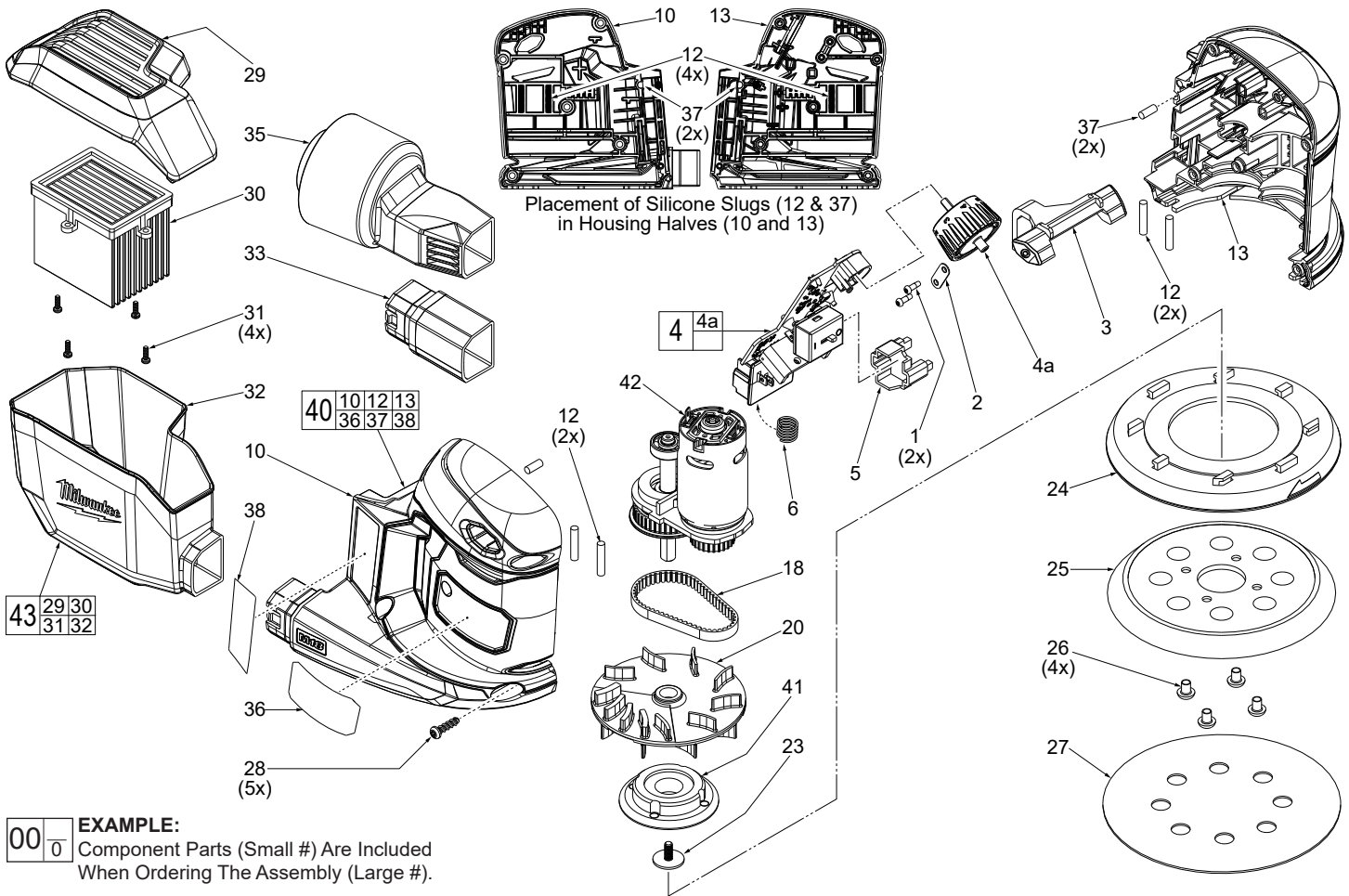




| | | |
|--|---------------------------------|------------------|
| SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS | | REVISED BULLETIN |
| M18™ RANDOM ORBIT SANDER | | |
| CATALOG NO. 2648-20 | STARTING SERIAL NO. J49A | |



| FIG. | PART NO. | DESCRIPTION OF PART | NO. REQ. |
|------|------------|--|----------|
| 1 | 06-82-0053 | M2.6 x 8mm Pan Hd. Tapt. Tamper Proof T-8 Scr. | (2) |
| 2 | 44-66-0001 | Speed Dial Holding Plate | (1) |
| 3 | 44-10-0001 | Switch Lever | (1) |
| 4 | 14-20-0001 | Electronics Assembly | (1) |
| 4a | ----- | Speed Dial | (1) |
| 5 | 43-72-0001 | Switch Holder | (1) |
| 6 | 40-50-1090 | Compression Spring | (1) |
| 10 | ----- | Right Housing Halve - Cover | (1) |
| 12 | 45-30-0001 | Silicone Slug | (4) |
| 13 | ----- | Left Housing Halve - Support | (1) |
| 18 | 42-25-0001 | Drive Belt | (1) |
| 20 | 22-84-0980 | Fan/Counter Balance | (1) |
| 23 | 06-81-0165 | #8-32 Washer Hd. T-20 Machine Screw | (1) |
| 24 | 44-52-0970 | Brake | (1) |
| 25 | 51-36-7100 | 5" Disc Assembly (Hook & Loop) - Standard | (1) |
| | 51-36-7095 | 5" Disc Assembly (PSA) - Optional | (1) |
| 26 | 06-81-0160 | 10-32 x 1/4" Pan Hd. T-25 Screw | (4) |
| 27 | ----- | 5" 80 Grit Sand Paper (Hook & Loop) - Std. | (3) |
| | ----- | 5" 80 Grit Sand Paper (PSA) - Optional | (1) |
| 28 | 06-81-0145 | 8-18 x 5/8" Pan Hd. DT T-15 Screw | (5) |
| 29 | ----- | Dust Box Cover with Gasket | (1) |
| 30 | ----- | Dust Box Filter | (1) |
| 31 | ----- | Screw | (4) |
| 32 | ----- | Dust Box Body | (1) |
| 33 | 31-03-0001 | Extension Adapter | (1) |
| 35 | 31-03-0003 | Vacuum Adapter | (1) |
| 36 | 12-20-0121 | Service Nameplate | (1) |

| FIG. | PART NO. | DESCRIPTION OF PART | NO. REQ. |
|------|------------|-----------------------------|----------|
| 37 | 45-30-0002 | Silicone Slug | (2) |
| 38 | 10-20-0239 | Warning Label | (1) |
| 40 | 14-34-0001 | Housing Kit | (1) |
| 41 | 02-04-0043 | Bearing Assembly | (1) |
| 42 | 14-50-0001 | Motor/Pulley/Shaft Assembly | (1) |
| 43 | 31-15-0001 | Dust Box Assembly | (1) |

FIG. NOTES
37,38 A clean, dry surface is essential for proper performance for any adhesive system. Area intended for application of any adhesive label or nameplate must be prepared by cleaning with isopropyl alcohol. The solvent is to be applied with a clean, lint free applicator and the surface allowed to dry before applying the label or nameplate.

| SCREW TORQUE SPECIFICATIONS | | | | |
|-----------------------------|------------|--------------------|-------------|----------|
| FIG. | PART NO. | WHERE USED | SEAT TORQUE | |
| | | | (KG/CM) | (IN/LBS) |
| 1 | 06-82-0053 | Dial Holding Plate | 4±1 | 3.4±1 |
| 23 | 06-81-0165 | Spindle | 25±3 | 21.6±2 |
| 26 | 06-81-0160 | Disc Assembly | 21±3 | 18.2±2 |
| 28 | 06-81-0145 | Housing Halves | 12±3 | 10.4±2 |
| 31 | ----- | Dust Box Filter | 2.5±1 | 2.1±1 |

NOTE:

The electronics assembly (4) and motor/pulley/shaft assembly (42) are separate service assemblies. If either needs replacing, the red and blue pcba leads must be unsoldered from the motor terminals. When reconnecting the two assemblies, the red wire must be connected to the motor terminal marked with a red dot. Care must be taken to properly hook stripped area of the wire through the terminal hole. Apply enough solder to cover hooked wire strands on terminals.

1. Carefully reinstall the electronics assembly (4), being sure to place pcba and battery connector block with spring (6) firmly and squarely in corresponding cavities of left housing half (13). Trap post of speed dial (4a) with holding plate (2) and two screws (1).

2. Place drive belt (18) onto drive pulley of motor/pulley/shaft assembly (42). Work belt onto smaller pulley. Install motor/pulley/shaft assembly squarely and firmly in corresponding cavities of left housing half (13).
3. Install fan (20) onto shaft.
4. Align raised guides on top of brake (24) with slots of left housing half. Gently work guides into slots.
5. Install bearing assembly (41) onto shaft. Secure with washer head screw (23).
6. Position disc assembly (25) over brake (24), aligning the four holes in disc assembly with the four holes in the bearing assembly (41). Secure with 4 screws (26).
7. Place switch holder (5) into left housing half. Place switch of electronics assembly into switch holder.
8. Install switch lever (3) into left housing being sure that notch on bottom of lever captures the switch post.
9. Be sure all components are seated squarely and that all wires are properly routed and trapped.
10. Carefully place right housing half (10) over left housing half and into the raised guides of brake. Be sure there are no interferences prior to securing with 5 housing screws (28).
11. Prior to installing battery, check for the proper functionality of switch lever (3).
12. Install battery and check for proper operation of tool.

