UTR 30-70 Repair Instruction Manual

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BORIDE Engineered Abrasives | 2615 Aero Park Dr. | Traverse City, MI 49686 | 231.929.2121

**UTR 30-70 Repair Parts List**

<table>
<thead>
<tr>
<th>No</th>
<th>Order No</th>
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*Plastic Crank Set includes Plastic Crank (#10), Bearing (#18-1) & Washer (#17)
*Parts not sold separately.
## UTR 30-70 Tools for Disassembly

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<tr>
<th>No.</th>
<th>Order No.</th>
<th>Description</th>
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</table>

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UTR 30-70  A: Disassemble Body

Required Tools:

A-1 • Use the Hex Key to remove the front screw and take out the tools holders

A-2 • Turn the front body

A-3 • Pull out the front body

A-4 • Insert tool no. J-002 into the front cover, turn and remove the front cover.
  • (A-4 to A-5 have to be done only if you have to change the sliding bush set.)

A-5 • Use tool no. J-049 to pull out the bushing set.

A-6 • After pulling out the bushing set.

A-7 • Use the plier to loosen the 4 screws (#8).

A-8 • Pull out the plastic crank set

A-9 • After step A-6 to A-8.
B: Disassemble Main Shaft

**Required Tools**

- Nut

- Use tool no. J-33 to remove the nut

- After removing the nut (#19) and washer (#17).

- Use tool no. J-8 to remove the bolt (#11)

- This is how it looks like

- After removing the bolt

- Use tool no. J-39 to remove the main shaft.

- After removing the main shaft (#7)

- Bearing 730ZZ

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C: Disassemble Turbine

**Required Tools**

- Washer
- Remove the washer
- Pull out the Bearing Set
- This washer **does not** have to be removed.

**Before disassembly**

- Use tools no. J-34 to remove the nut (#19A)
- Pull out the Plastic Crank (#10)

**After removing the nut**

- Pull out the Plastic Crank (#10)
- This washer **does not** have to be removed.
D: Disassemble Rear Part

**Required Tools:**

- **D-1** Use the special tool no. J-037.
- **D-2** Turn and loosen the air inlet body.
- **D-3** Remove the air inlet body.
- **D-4** Use the special tool no. J-007 C-shape plier.
- **D-5** Turn anti-clockwise.
- **D-6** Remove the switch Body.
- **D-7** (If you have to replace the O-Ring.) Remove the C-Ring.
- **D-8** Remove the on/off switch.
- **D-9** Replace the O-Ring.

**UTR 30-70**

*Remark* Before assembly the bearing set, make sure that:

1. (凸) surface is facing out.
2. (Flat surface) is facing inside.

- **E-1** Turbine
- **E-2** Washer.
- **E-3** This is how it looks.
- **E-4** Put on the Plastic Crank
- **E-5** Put on the Nut (#19A)
- **E-6** Use tools no. J-34 to tighten the nut, same for both side.

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**UTR 30-70**

**E: Assemble Turbine**

**Required Tools:**

- E-1
- E-2
- E-3
- E-4
- E-5
- E-6

**E-1**

- Turbine

**E-2**

- Washer

*Remark* Before assembly the bearing set, make sure that:
1. (凸 surface) is facing out.
2. (Flat surface) is facing inside.

- This is how it looks.

**E-3**

- Washer

- Put on the Plastic Crank

**E-4**

- Put on the Nut (#19A)

**E-5**

- Use tools no. J-34 to tighten the nut, same for both side.
**UTR 30-70**  
**F: Assemble Main Shaft & Air Inlet Body**

**Required Tools:**

- **F**
  - Bolt & Nut location

- **F-1**
  - Insert the main shaft into the plastic crank set.
  - Insert the bolt (#11) to connect the plastic crank and main shaft.

- **F-2**
  - Put on the washer and nut

- **F-3**
  - Use tool no. J-33 to tighten the nut.

- **F-4**
  - After the assembled

- **F-5**
  - Put the Front Turbine Cab (#12) onto the bearing

- **F-6**
  - After putting the front turbine cab on the bearing, turned it to the middle in between the two plastic crank.

- **F-7**
  - Insert the turbine set into the rear body.

- **F-8**
  - Use tool no. J-32 to tighten the screw.

- **F-9**
  - *REMARK*

*Make sure that the air emerging hole is targeted at the turbine tooth.*
**UTR 30-70  G: Assemble Body Cover and Tool Holder**

- **G-1**
  - Front and Rear Part.
  - If you have removed the front cover (#3), please put it back on.

- **G-2**
  - Insert the Rear Part into the Front Body Cover.

- **G-3**
  - Tighten the front and rear body by turning.

- **G-4**
  - Put on the tools holder and use the M3*8L screw to lock it.
  - After the assembled
• After disassembled, make sure that you have cleaned up all parts before re-assembled.
• Make sure that the air emerging hole is facing the correct direction to the turbine as shown on the picture (right).

I. Consuming Parts

I-1 • Plastic Crank Set
    No-10A

I-2 • Bearing Set
    No-15A

I-3 • Main Shaft
    No-7, 9

I-4 • Bushing Set
    No-4, No-4B & No-5