

Instructions for Repairing Powerhand BZX Sander

How to Disassemble the Body (Fig. 1)

Pull back belt arm knob with index finger and remove belt.
Pull out the belt arm from body.

How to Disassemble & Assemble the Motor (Fig 2.)

(Fig 2.)

Disassemble & assemble with the opposite procedure referring to the paragraph enclosed:

1. Loosen screws (2) (part #YS131-02 handgrip screw) and remove.
2. Loosen handgrip nut (part #BS33-114) and remove.
3. Pull out the handgrip (part #BS33-766) and remove.
4. Remove protection cover (part #BS1-277)
5. Remove belt holder body from the motor (part #BS33-200)

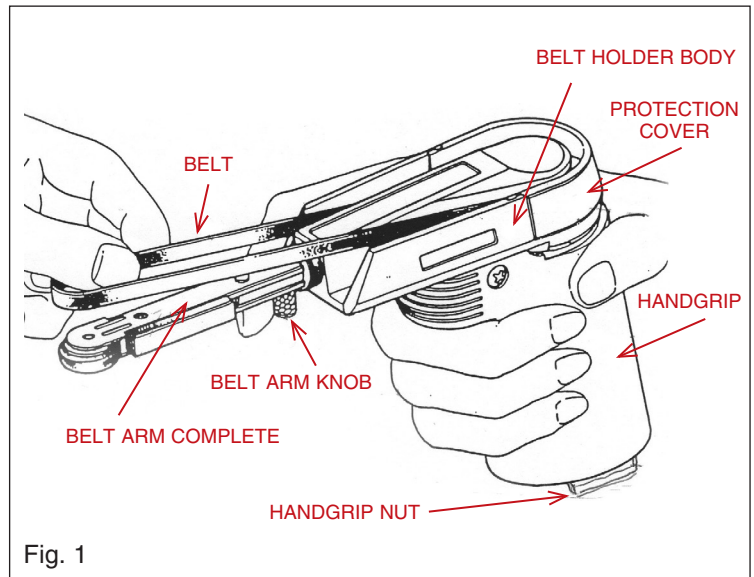


Fig. 1

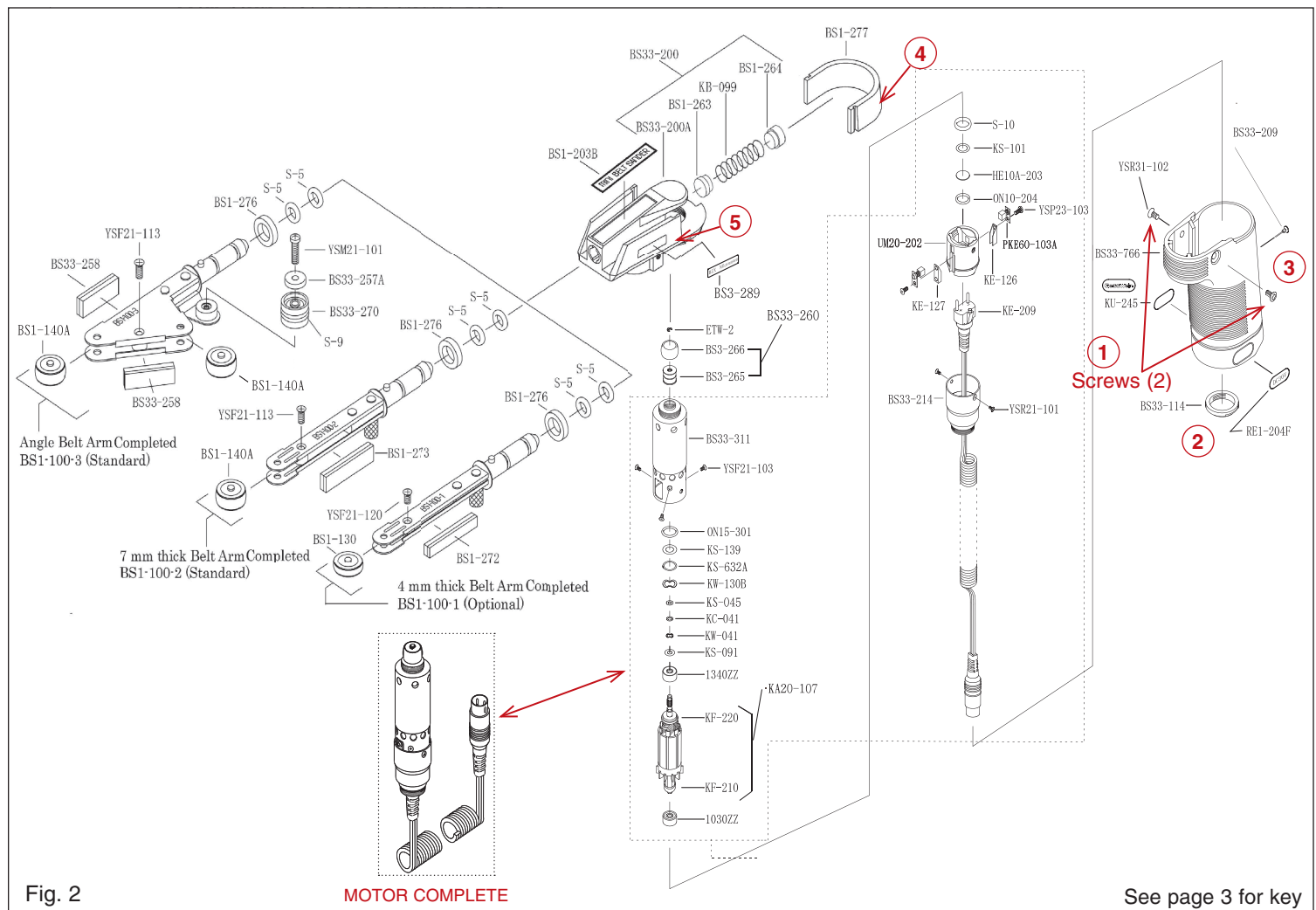


Fig. 2

See page 3 for key

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Changing Arm Pads (Fig. 3)

Remove the worn pad from the belt arm. Replace with a new support arm pad by removing the self adhesive backing and place in the same position.

Changing Belt Arm Pulleys (Fig. 3)

Unfasten 2 screws located on top of the belt arm. Spread the two plates sufficiently apart to remove the defective pulley. Replace new pulley and secure with screws.)

Changing Carbon Brushes (Fig. 4)

Loosen 2 screws (YSR21-101) and remove both sides. Pull the motor cap out (BS33-214). Loosen 2 screws on both sides of the carbon brushes and remove.

Inspection Of Carbon Brushes (Fig. 4)

Check carefully if carbon brushes are worn out or not. Replace new carbon brushes if necessary.

Changing Ball Bearings (Fig. 4)

Loosen 2 screws and remove brush side lid (part #UM-20-202)

1. Pull the armature out.
2. Remove ball bearing (1040ZZ) from the rear of armature.
Inspect ball bearing and replace if necessary.
2. Front ball bearing:
Remove the C type clip ring (KC-041)
Remove wave washer (KW-041)
Remove spacer (KS-091)
Remove ball bearing (1350ZZ)
Inspect front bearing and replace if necessary.

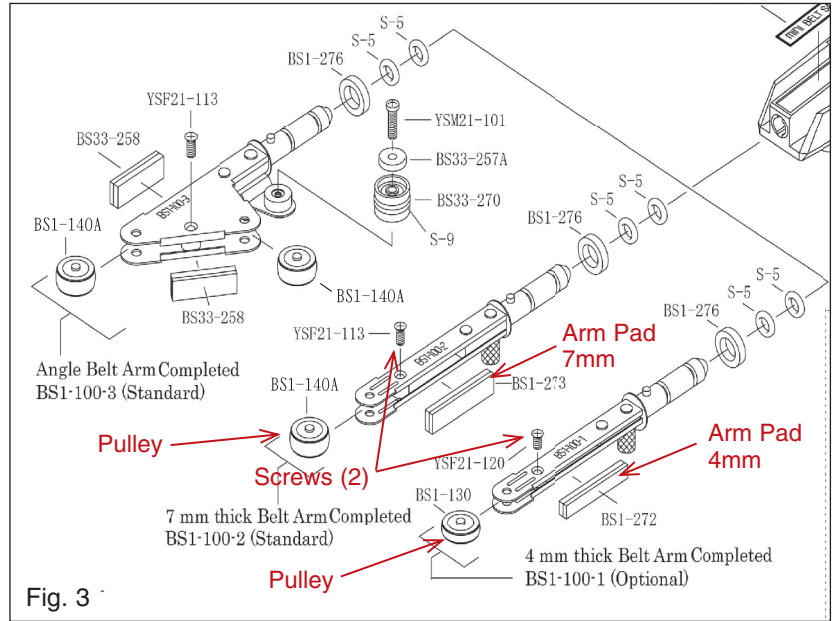


Fig. 3

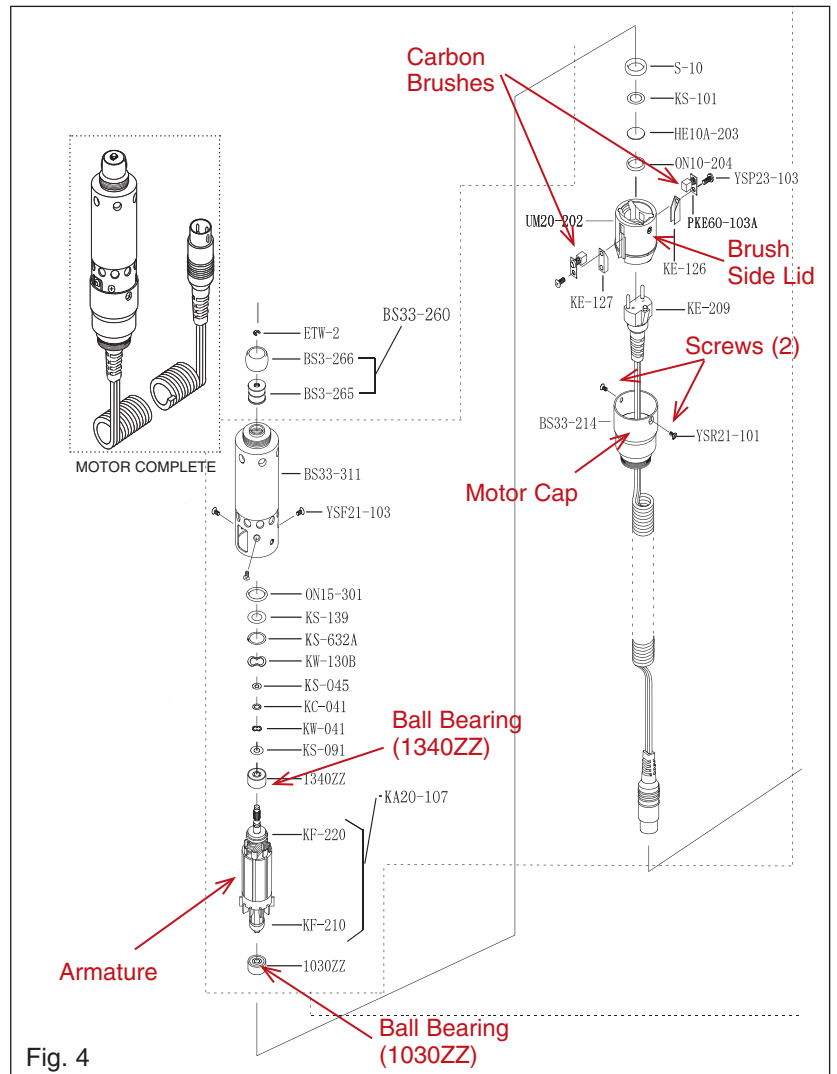


Fig. 4

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Changing & Inspection Of Armature (Fig. 5)

Check carefully if the commutator of the armature is worn out. Replace armature if necessary.

Changing & Inspection Of Driving Pulley Complete (Fig. 5)

Remove the E-ring (ETW-2). Then remove Driving Pulley Complete (BS-33-260) out from motor by turning to counter clockwise direction. Inspect the Driving Pulley and replace if necessary.

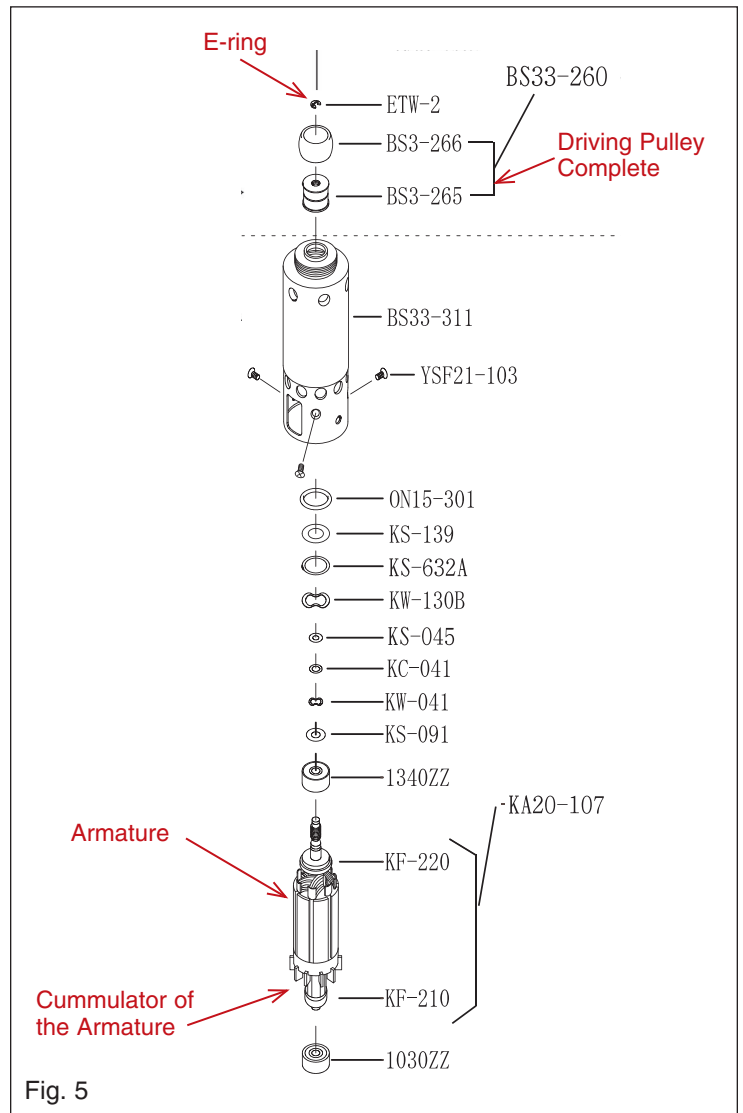


Fig. 5

Part#	Item#	Description
BS1-100-1	510-0494	Belt Arm Completed (4mm)
BS1-100-2	510-0496	Belt Arm Completed (7mm)
BS1-100-3	510-0495	Belt Arm Completed (45°)
BS1-130	896-0183	Belt Arm Pulley (4 mm)
BS1-140A	896-0350	Belt Arm Pulley (7 mm)
BS1-272	896-0185	Support Arm Pad (4 mm)
BS1-273	896-0186	Support Arm Pad (7 mm)
BS33-258	896-0187	Support Arm Pad (45°)
BS1-276	896-0188	Dust Proof Cushion
S-5	896-0189	O-Type Rubber Ring
YSF21-120	896-0190	Pan Headed Screw
YSF21-113	896-0191	Pan Headed Screw
BS33-270	896-0192	Guide Pulley Completed
S-9	896-0193	O-Type Rubber Ring
BS33-257A	896-0194	Pulley Cover
YSM21-101	896-0195	Countersunk Head Screw
BS33-200	896-0196	Belt Holder Body Completed
BS33-200A	896-0197	Belt Holder Body
BS1-203B	896-0198	Minibelt Sander Name Plate
BS3-289	896-0200	BZX Name Plate
BS1-263	896-0200	Spring Base

Part#	Item#	Description
BS1-264	896-0201	Screw Lid
KB-099	896-0202	Coil Spring
BS1-277	896-0203	Protection Cover
BS33-107	896-0352	Motor Completed
BS33-260	896-035	Driving Pulley Completed
BS3-265	896-0206	Driving Pulley Only
BS3-266	896-0207	Driving Rubber Ring
ETW-2	896-0156	E-Type Clip Ring
BS33-311	896-0354	Motor Housing
ON15-301	896-0160	O-Type Rubber Ring
KS-139	896-0161	Metal spacer
KS-632A	896-0163	Metal spacer
KW-130B	896-0355	Wave Washer
KS-045	896-0165	Fiber Spacer
KC-041	896-0209	C-Type Clip Ring
KW-041	896-0167	Wave Washer
KS-091	896-0210	Spacer
YSF21-103	896-0002	Countersunk Head Screw
KA20-107	896-0356	Armature
KF-220	896-0357	Dust Proof Collar
KF-210	896-0011	Dust Proof Collar

Part#	Item#	Description
1340ZZ	510-3094	Ball Bearing
1030ZZ	510-3073	Ball Bearing
S-10	896-0012	O-Type Rubber Ring
KS-101	896-0013	Teflon Spacer
HE10A-203	896-0014	Rear Lid
PKE60-103A	510-0161	Carbon Brush (2 pcs)
UM20-202	896-0321	Brush Side Lid
YSP23-103	896-0017	Pan Headed Screw
ON10-204	896-0015	O-type Rubber Ring
BS33-214	896-0358	Motor Cap
KE-126	896-0018	(+) Terminal Plate
KE-127	896-0019	(-) Terminal Plate
KE-209	510-0171	Motor Cord with Plug
YSR21-101	896-0359	Countersunk Head Screw
BS33-766	896-0360	Handgrip
BS33-114	896-0361	Handgrip Retaining Nut
BS33-209	—	Grounding Pin
YSR31-102	896-0119	Handgrip Locking Screw
KU-245	896-0122	Gesswein Name Plate
RE1-204F	896-0121	DC30V Name Plate