

P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-10

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DATE: 8/13/2012



Introduction:

This procedure documents replacing the armature and brushes for any P56AN family motor.

P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-20

Recommended tools:

7/16" socket wrench

Small soft hammer

Flathead screwdriver

Phillips screwdriver

Small channel locks

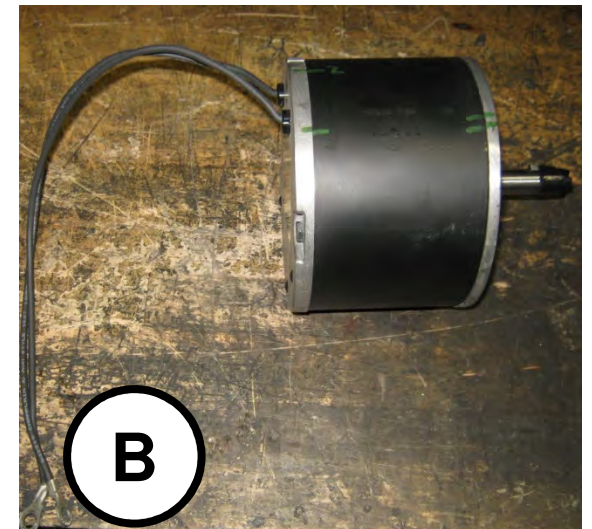
non-metallic spacer (4 x 3.5 x 3.5" in this case)

Flat tipped rod

P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-30

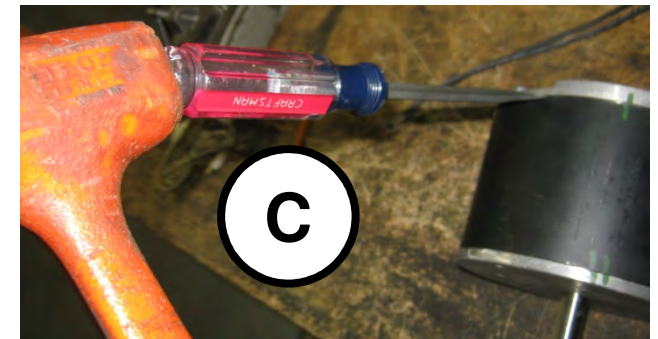
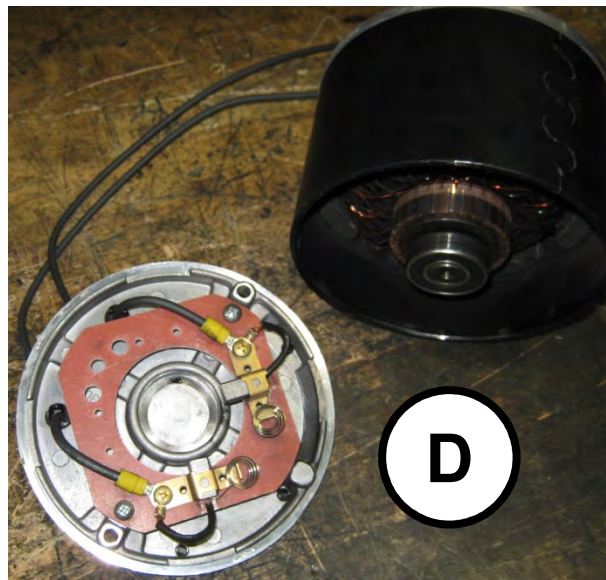
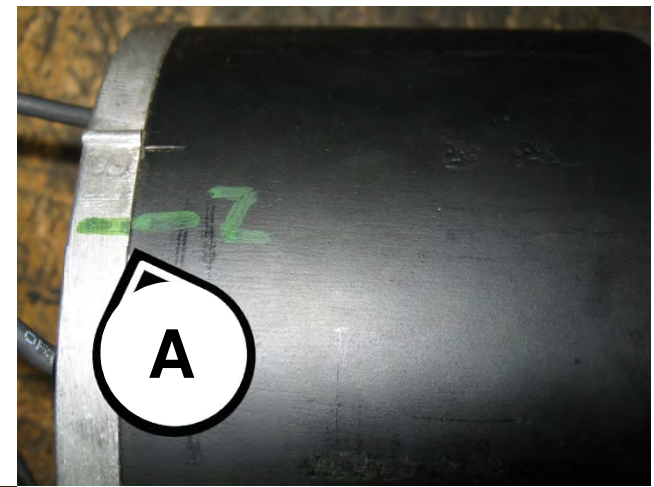
- A. Locate 7/16 " socket wrench
- B. Locate motor needing armature and brushes replaced
- C. Remove both existing bolts with wrench



P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-40

- A. Mark alignment of motor and cap
- B. Locate soft hammer and flat screwdriver
- C. Remove bottom cap with screwdriver and hammer tapping evenly around motor
- D. Fully remove bottom cap from motor assembly



P56AN Family Brush and Armature Replacement Instructions:

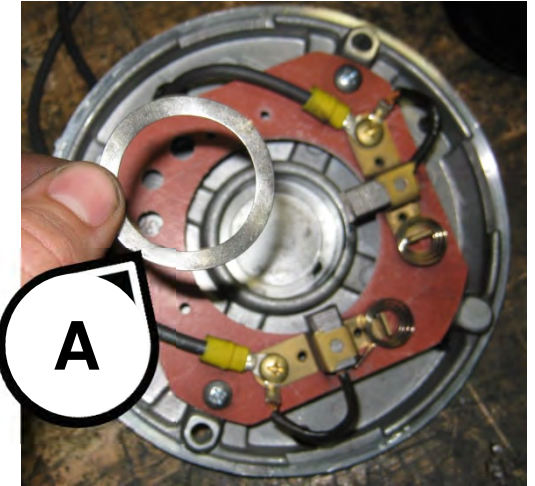
Op #:
A-50

A. Locate wavy washer
and set aside



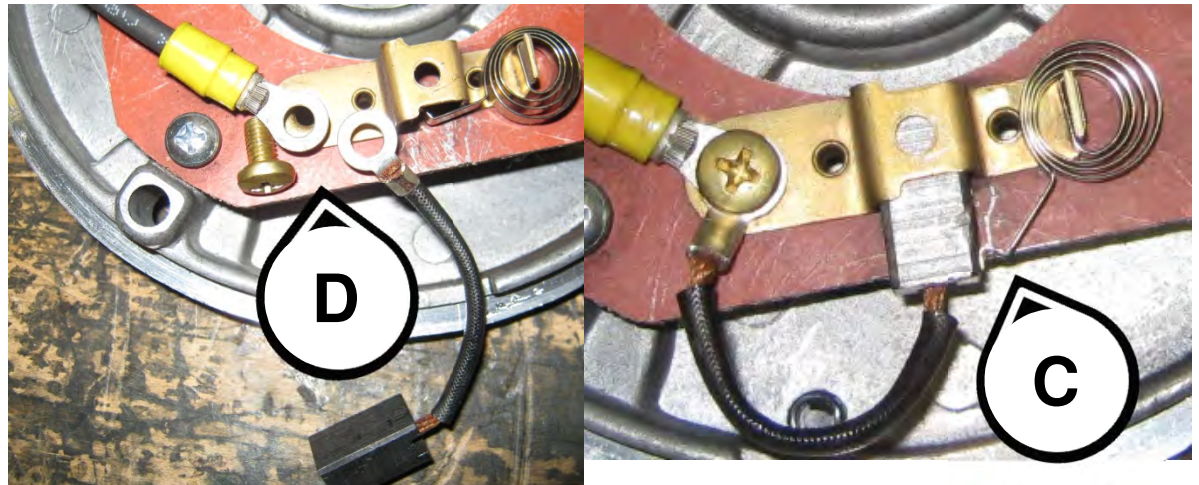
B

B. Locate Phillips
screwdriver



A

C. Pull back spring and slide
out brush head



D

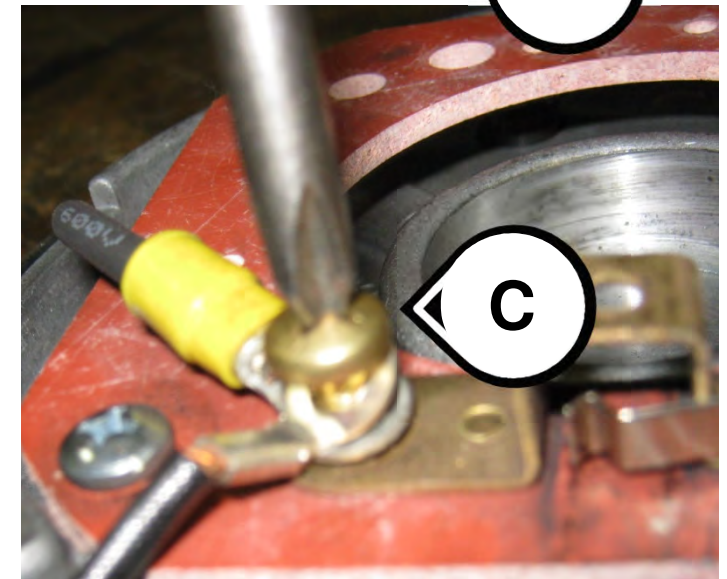
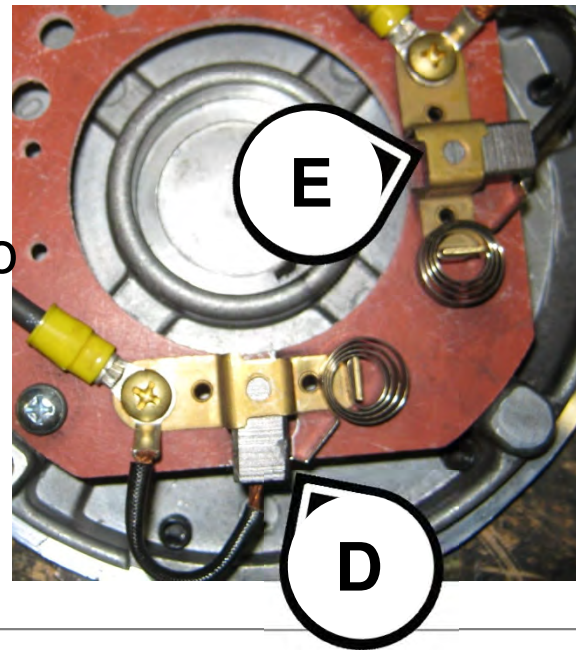
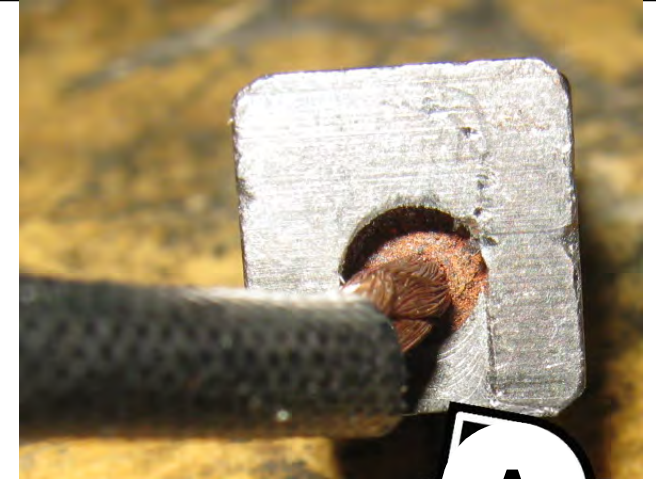
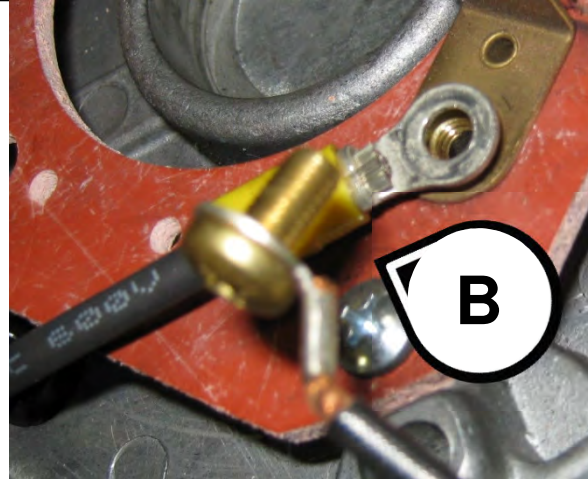
C

D. Unscrew screw and
remove brush

P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-60

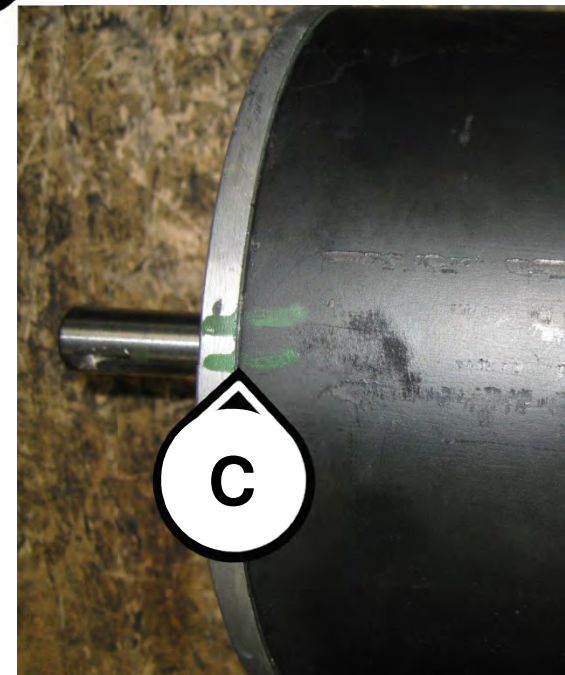
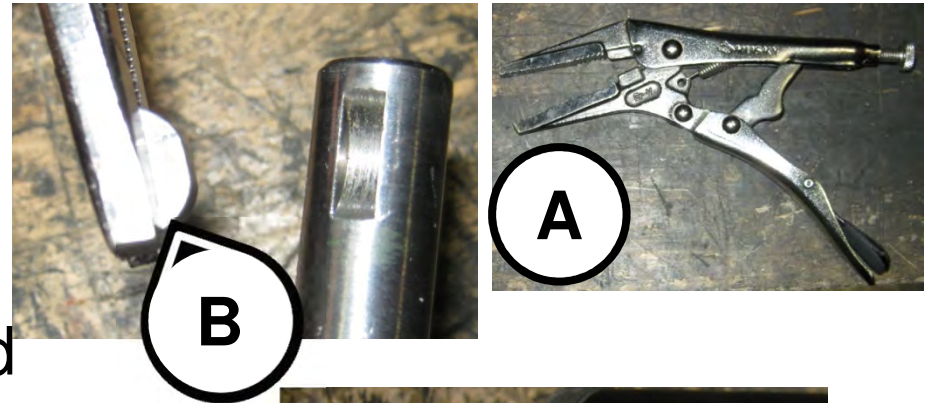
- A. Note the orientation of the new brushes (open side down)
- B. Slide both ring terminals over screw
- C. Tighten screw down
- D. Pull back spring and set brush into non-engaged position
- E. Replace other brushes as needed



P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-70

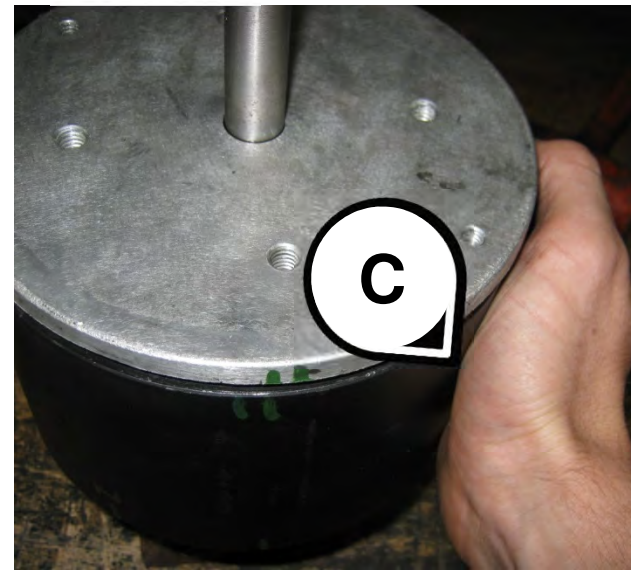
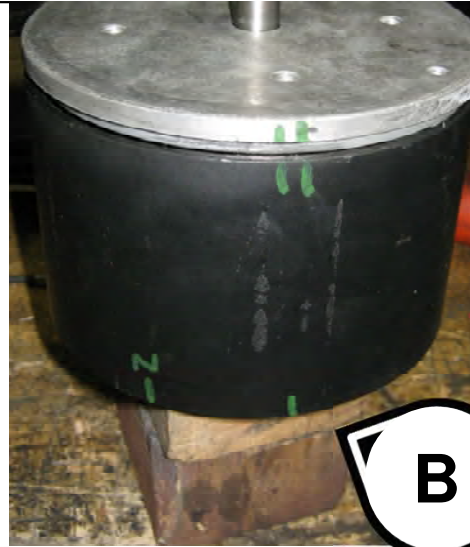
- A. Locate channel locks
- B. Remove key with channel locks
- C. Mark alignment of top cap
- D. Loosen top cap with flathead screwdriver and hammer



P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-80

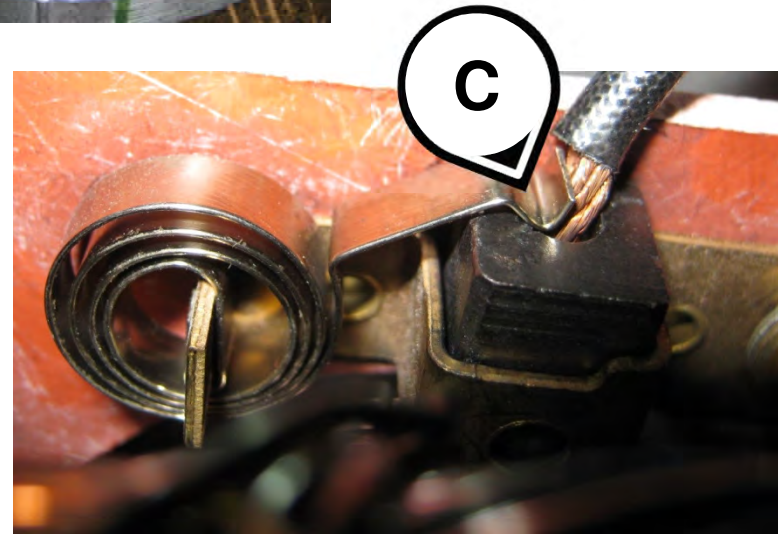
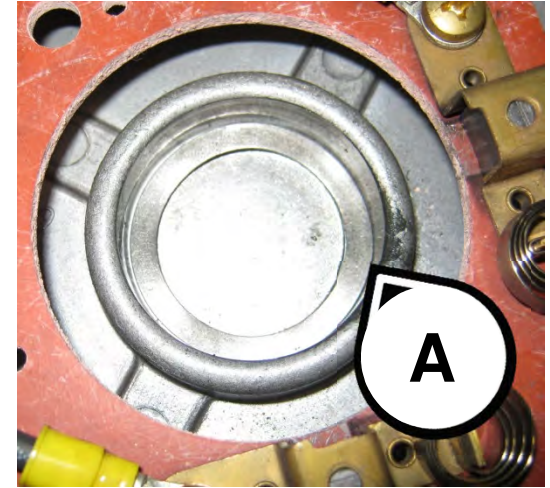
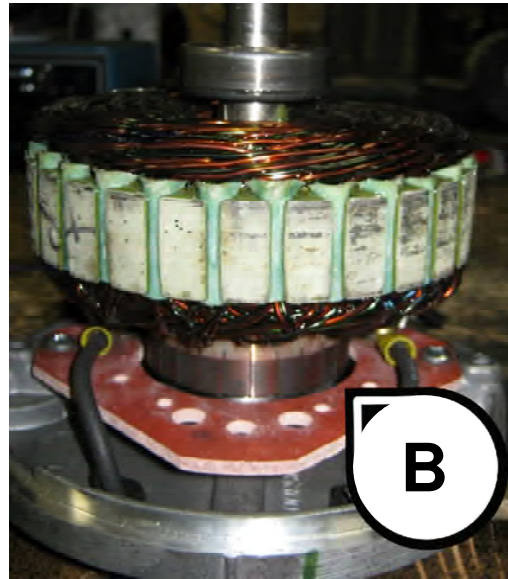
- A. Locate non metallic spacers
- B. Place motor bearing on top of spacer
- C. Grab motor casing with both hands and push down
- D. Fully remove armature



P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-90

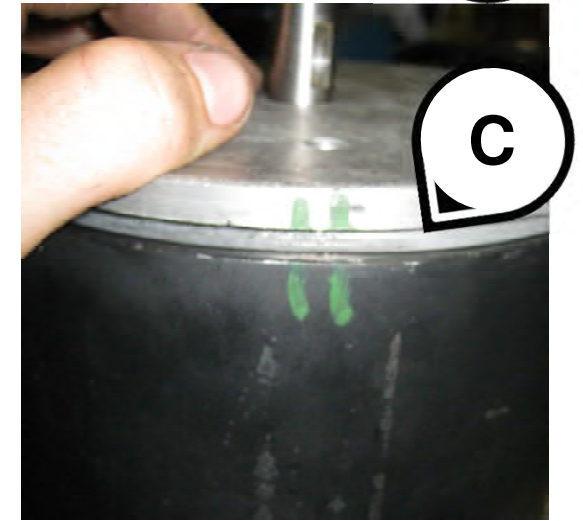
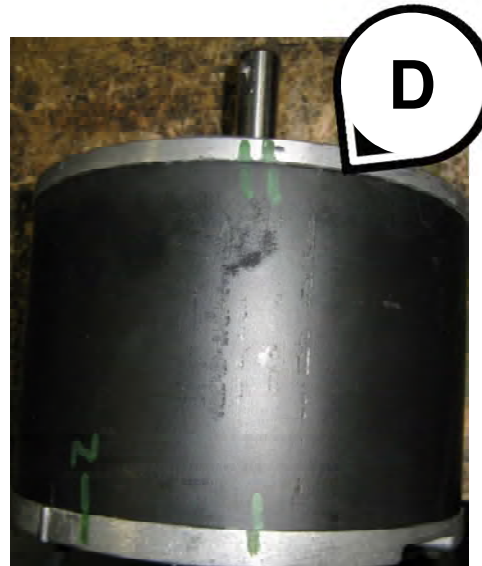
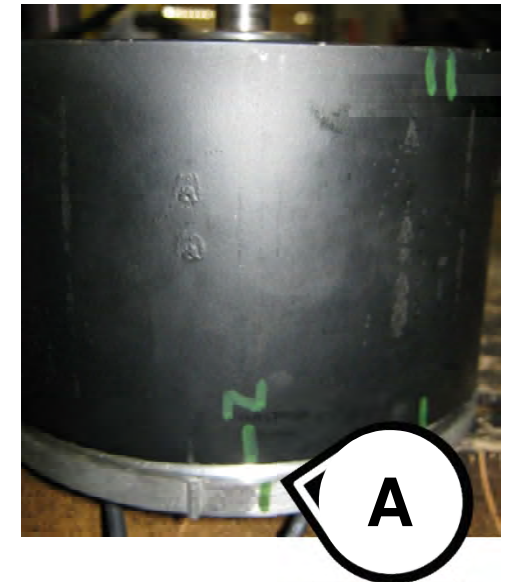
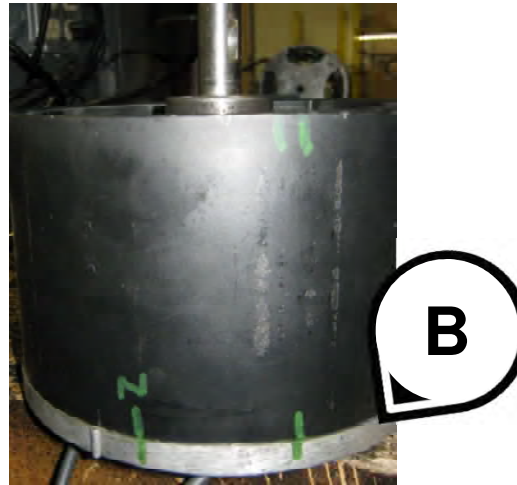
- A. Insert wavy washer into base
- B. Slide new armature over wavy washer
- C. Engage all brushes by pulling back brush spring and pushing in the brush and releasing spring



P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-100

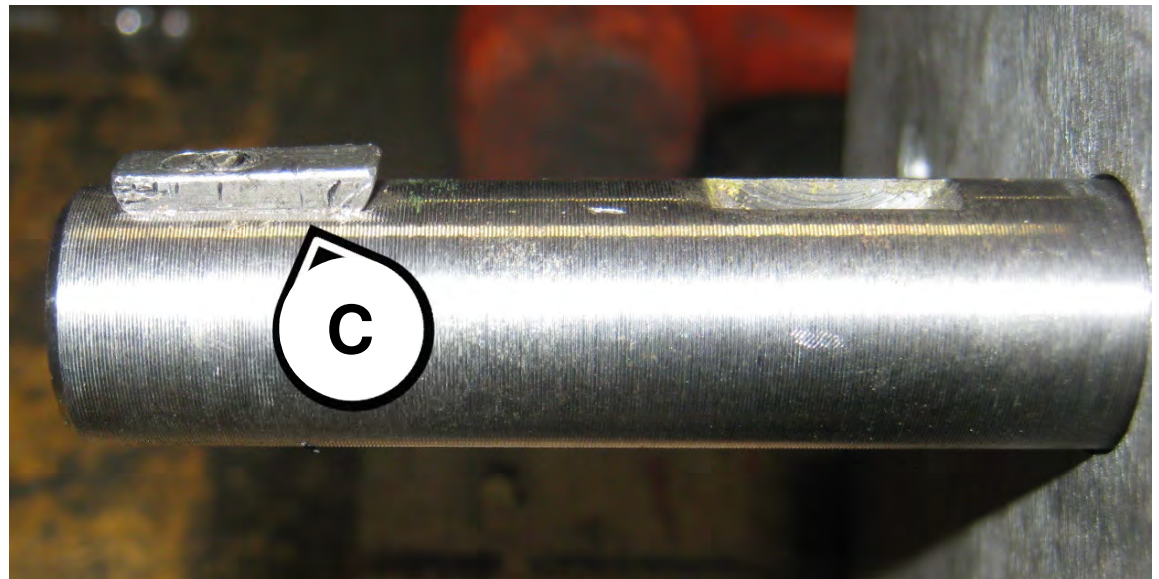
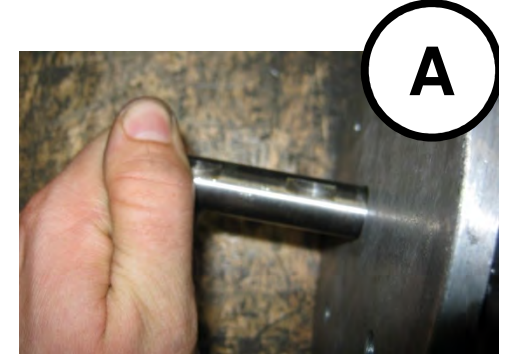
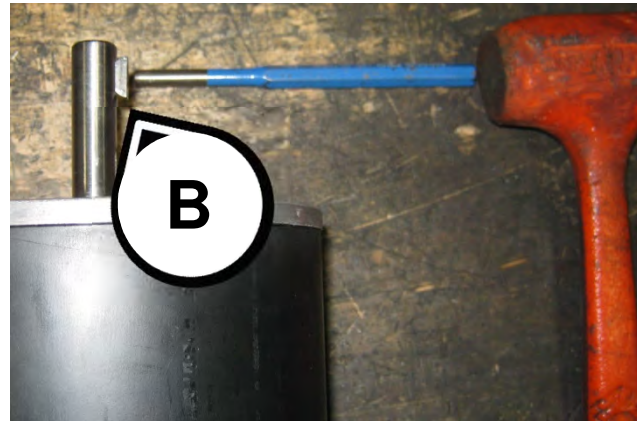
- A. Align bottom cap and slide motor casing over armature. Be careful as magnets grab armature
- B. Tap casing in place
- C. Align top cap over shaft onto motor casing
- D. Hammer top cap in place



P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-110

- A. Check that shaft turns smoothly
- B. Set key in keyway
- C. Tap key until it sits fully in keyway



P56AN Family Brush and Armature Replacement Instructions:

Op #:
A-120

- A. Thread bolts into motor
- B. Tighten bolts with 7/16 " socket
- C. Replacement for motor brushes and armature complete

