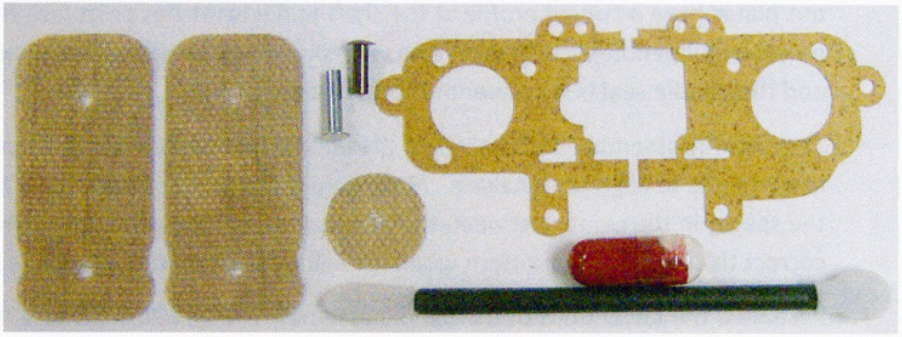
A-17500-K Vacuum Wiper Repair Kit

for Trico Model A replacement-style motors with 1" wide bowls & snap-on oval covers

Kit contents:

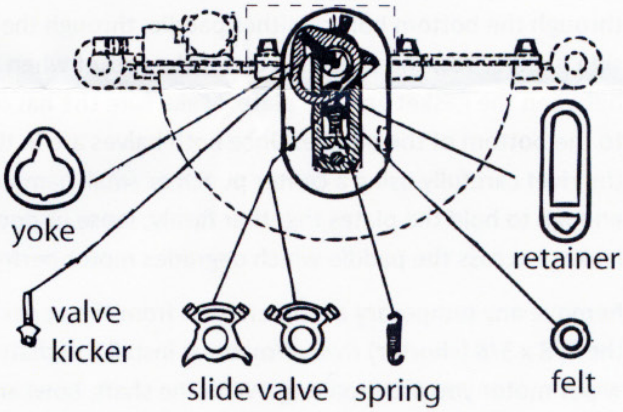
- 2 paddle seals (color may vary)
- left and right bowl gaskets
- round parking seal
- 1 short and 1 long rivet
- grease capsule & applicator swab



Be sure to take pictures of your wiper and paddle assembly at various stages of disassembly for reference!

Wiper motor disassembly:

- Remove the oval back cover by gently prying off
- Remove reversing valve components for re-use
- Remove the 6 cover screws
- Gently separate the cover from the body, remove all traces of old gasket without cutting into the soft metal



- Remove paddle/shaft assembly, clean and inspect bowl and lid interior surfaces. Any corrosion, flaking, or deep pitting will prevent proper operation. While it is possible to repair some defects by filling with JB Weld or equivalent and sanding smooth, it is challenging and is no guarantee that new areas of pitting will not form and render the motor inoperable.

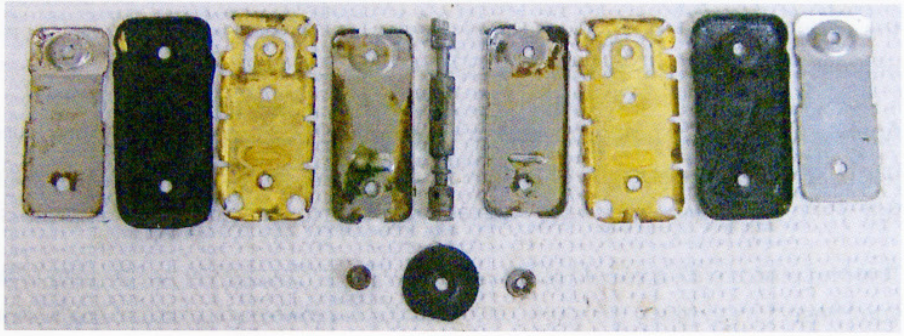
Paddle disassembly:

- Drill out the two rivets holding the paddle together. Drill just enough of the upset end to punch the rivet through using a 1/8 rod. A ¼ or 7/32 hex socket can be used for back support around the rivet head while driving out the rivet.



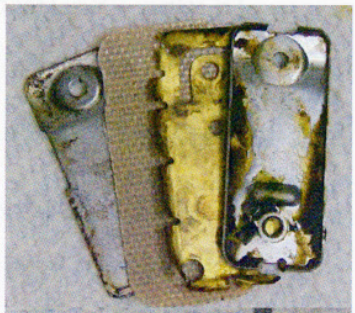
- Disassemble your paddle. Separate the paddle halves and make note of the small spacer sleeve at the bottom between the halves and also the small washer under the circular parking seal. Do not lose these small pieces.
- Separate the layers from each half of the paddle. Be careful removing the brass foil piece not to tear it. You may need to use a knife blade slid under the old paddle material to remove it.

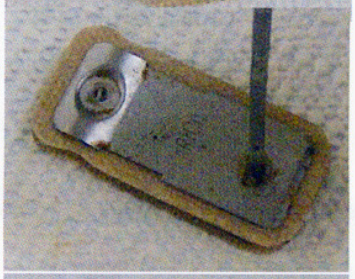




- Clean all parts to be reused of old grease.

Paddle reassembly:



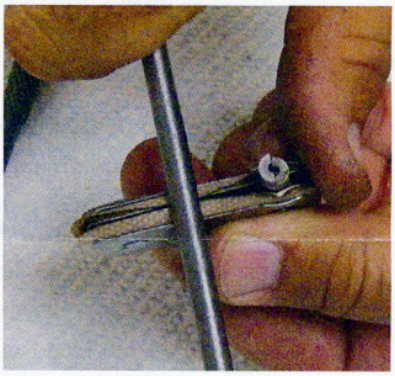




- Reassemble each side starting with the outside steel plate, new paddle material, foil insert and inside plate. Check that all layers are oriented the same way. Inner and out plates have a curved profile at the shaft end (curvatures must face the same way on each half paddle), the brass foil has a U-shaped notch at the shaft-end rivet hole, and the paddle seal is narrower at the shaft-end rivet hole.
- Temporarily assemble both halves of the paddle together using a 1/8" pin, nail or rivet in each hole to align both halves. Make sure the bottom of the paddle assembly has the spacer in the center between the paddle halves. This spacer gives the paddle the correct thickness at the bottom when installing the shaft at the top.
- Assemble the lower ends of the paddle assembly first as follows. Place the new small round gasket supplied on to the 1/8 x ½ (longer) rivet and then the small flat washer. Remove any temporary alignment tool from the lower rivet hole and place the rivet through the bottom hole of either paddle, through the spacer and out the opposite side paddle. Yes, the washer is under the gasket when assembled, it provides a space between the gasket and the plate. Make sure the flat on the round gasket is rotated to the bottom of the paddle. Once both halves are in the correct position, peen over the rivet carefully using a center punch or small hammer. Rivets should be set tight enough to hold the plates together firmly, loose or poorly-set rivets can permit leakage across the paddle which degrades motor performance.
- Remove any temporary alignment tool from the upper hole and install the shaft using the 1/8 x 3/8 (shorter) rivet. You must install the shaft in the correct position for the wiper motor you are repairing. With the shaft, bowl and cover all in proper alignment, the round gasket at the bottom of the paddle must be closest to the on-off valve. This will provide the proper parking position for the wiper arm and provide a positive seal of the vacuum port.

Motor reassembly:





- After assembling the paddle, use a smooth 1/4" rod to rub over the paddle edges so they are folded in toward the gap between the plates.
- Grease the inside of the wiper body, shaft grooves and the edges of the paddle with the grease provided in the kit. Assemble repaired paddle into the wiper bowl making sure that the paddle material is not pinched or folded back. Test the paddle by moving it back and forth using your fingers to assure correct assembly.
- Remove the two screws for the on-off mechanism and remove the components noting order and orientation. Inspect the sliding contact area of the top and dress carefully with a flat file. Clean top and on-off components, wipe a thin film of grease on on-off components and reassemble.
- Apply grease to the shaft grooves and curved paddle area of the top. Install new gaskets and use a thin film of non-hardening gasket sealant on the edges of wiper bowl before installing top. Make sure you are careful not to break the top when tightening the screws. Reinstall the flip-flop mechanism components.
- Test the motor with a known good vacuum source. You should not be able to prevent the motor from turning using your fingertips to pinch the shaft. When switched to the off position, shaft should return to the parked position and there should be no hissing noise.