

## VACUUM CLEANER

KS-8389

### REQUIREMENTS AND ADJUSTING PROCEDURES

#### 1. GENERAL

1.01 This section covers the portable hand type KS-8389 vacuum cleaner for use in routine cleaning of central office apparatus and for general cleaning.

1.02 Reference shall be made to Section 020-010-711 covering General Requirements and Definitions for additional information necessary for the proper application of the requirements listed herein.

\*1.03 Asterisk: Requirements are marked with an asterisk (\*) when to check for them would necessitate the dismantling or dismounting of the apparatus, or would affect the adjustment involved or other adjustments. No check need be made for these requirements unless the part is made accessible for other reasons or its performance indicates that such a check is advisable.

1.04 Satisfactory commutation for the purpose of this section, may be said to have been attained if neither the brushes nor commutator are burned or injured to the extent that abnormal maintenance is required. The presence of visible sparking is not necessarily evidence of unsatisfactory commutation.

#### 2. REQUIREMENTS

2.01 Cleaning: The vacuum cleaner shall be cleaned when necessary as specified in Part 3.

\*2.02 Motor Brush Length: The brushes shall be replaced when their length, outside of the brush spring measured to the top of the arc has been reduced through wear to 1/4". Gauge by eye.

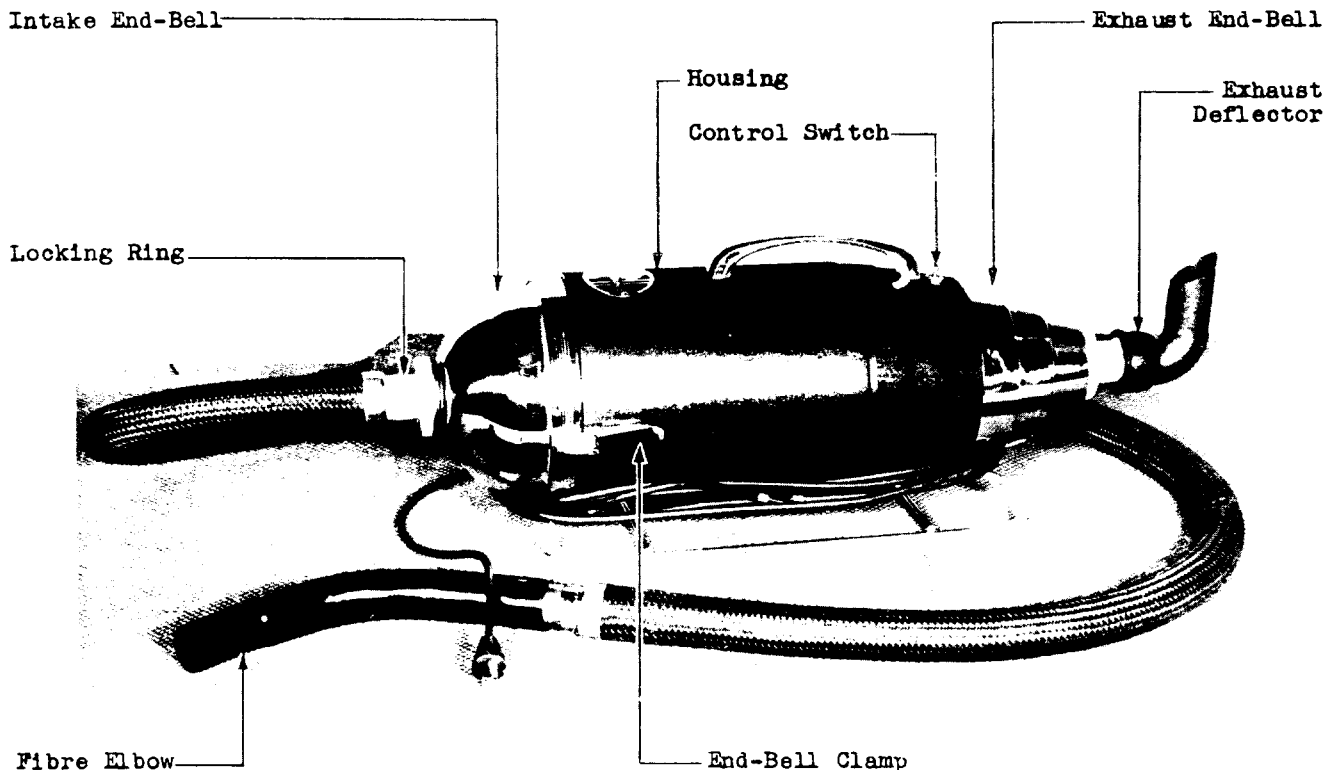


Fig. 1 - KS-8389 Vacuum Cleaner

\*2.03 Motor Commutator: The surface of the commutator shall be free from scoring, pitting or other deformation of the surface or structure save that caused by normal wear. Gauge by eye.

2.04 Motor Bearings: The bearings of the motor shall be quiet. Gauge by ear.

3. ADJUSTING PROCEDURES

3.001 List of Tools and Materials

<u>Code No.</u>	<u>Description</u>
<u>Tools</u>	
-	3" Cabinet Screwdriver
<u>Materials</u>	
-	KS-14666 Cloth
-	KS-7860 Petroleum Spirits

3.01 Cleaning (Rq.2.01)

- (1) Perform the following cleaning operations at a point remote from the central office apparatus.
- (2) Clean the external parts of the vacuum cleaner with a KS-14666 cloth.
- (3) To remove dirt from the filter bag, remove it from the housing and empty the dirt from the bag into a suitable container. Turn the filter bag inside out and remove the dirt and dust that clings to the inside of the bag by brushing and shaking the bag. If this does not satisfactorily remove the dirt, the bag shall be dry cleaned or replaced.
- (4) To clean the vacuum cleaner at the exhaust end, remove the end-bell mounting screws with the 3" cabinet screwdriver and remove the end-bell. Remove the screen that mounts over the exhaust. Remove the dirt and dust from the screen, end-bell and interior of the housing with a KS-14666 cloth. Remount the screen over the exhaust. Remount the end-bell lining up the screw holes in the end-bell and housing. Insert and securely fasten the end-bell mounting screws with the 3" cabinet screwdriver.
- (5) To clean the commutator, remove the exhaust end-bell as outlined in (4) and apply a clean KS-14666 cloth to the commutator, rotating the commutator with the fingers until it is clean.

Note: A bronze colored highly polished commutator is very desirable and it should not be mistaken for a burned commutator. If a commutator presents this condition, is smooth and commutation is satisfactory, leave it alone.

(6) If the commutator becomes smutted from grease, clean it with a KS-14666 cloth moistened with KS-7860 petroleum spirits.

(7) If the commutator needs reconditioning, proceed as outlined in 3.03.

3.02 Motor Brush Length (Rq.2.02)

- (1) Remove the exhaust end-bell mounting screws with the 3" cabinet screwdriver and remove the end-bell and screen.
- (2) Remove the brush caps. Notice the position of the brushes in the holders. Remove and inspect the brushes. If the brush lengths meet the requirements, place them back in the holders being sure that they are in the same position noticed before removal. If the brush length requirement is not met, replace with new brushes.
- (3) Inspect the commutator and if necessary, clean it as outlined in 3.01.
- (4) Remount the screen over the exhaust and remount the end-bell lining up the screw holes in the end-bell and housing. Insert and securely fasten the end-bell mounting screws with the 3" cabinet screwdriver.

3.03 Motor Commutator (Rq.2.03)

- (1) If the commutator becomes scored or otherwise deformed, or if the surface of the undercut commutator wears to the level of the insulation, refer the matter to the supervisor.

3.04 Motor Bearings (Rq.2.04)

- (1) If an unusual noise develops in the vacuum cleaner and the noise can be traced to the motor, it is probable that the bearings need replacing or that there is poor commutation which is due to eccentric operation or to chatter. The bearings are self-contained and grease packed and are so designed that they cannot be relubricated in the field. In either case refer the matter to the supervisor.