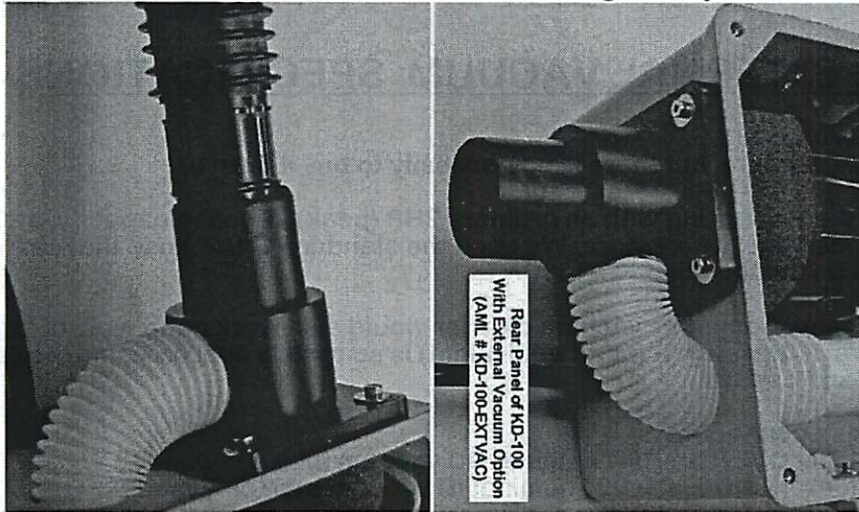


OWNER'S & SERVICE MANUAL SUPPLEMENT

-- External Vacuum Option -- *CryptoStroyer*[™] Model KD-100 Key Tape Disintegrator



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This Owner's Manual is Part # KD-100-OM-EXT

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A. INTRODUCTION

1. AML Designation: KD-100-EXTVAC.
2. Purpose: To permit high-volume, sustained operation of the KD-100.
3. Availability: Became available in April, 2003.
This is a Factory modification only. It is not field-installable, BUT we CAN modify a returned unit.
4. Approvals: This Option does not change the way the machine operates, and therefore does not require a new approval process.
5. Design: This Option consists of internal modifications to the KD-100, additional plastic and rubber components, and additional labeling. The added components include manifolding parts which:
 - a) Channel the external vacuum to remove the residue, AND
 - b) Provide significant extra cooling by pulling air through the KD-100's standard motor.An external vacuum, such as an ordinary "Shop-Vac", connects to a rubber adapter Nozzle on the rear of the modified KD-100.
6. Performance:
 - a) Duty Cycle: Continuous, as long as the external vacuum continues to provide good suction.
 - b) Throughput Rate: Approximately 900 segments (10" each) per hour.
7. Compatibility Limitations
 - a) With this Option, KD-100 will NOT fit in the standard Hard-Shell Transport Case (# KD-100-CASE).
 - b) The External Vacuum Cleaner available separately from us (AML Item # KD-100-VACUNIT) is wired for 110-130 VAC ONLY. No 220-volt version is currently available.

B. OPERATING INSTRUCTIONS

1. Start with a fresh filter or filter bag and an empty chamber in the external vacuum.
2. Connect the external vacuum to the rear nozzle on the KD-100.
3. Switch the external VACUUM ON FIRST!
4. Disintegrate Key Tape as required.
5. Switch OFF the KD-100 FIRST! -- Switch OFF the VACUUM LAST!

Notes:

a) You **CANNOT** use the modified KD-100 **WITHOUT** an external vacuum!
If you do, you will pump residue into the KD-100's motor, and quickly ruin it.

b) We recommend checking the external vacuum after 60 MINUTES of operation. Make sure it still has plenty of suction (feel the suction by disconnecting the hose from the KD-100). Make sure that there is plenty of capacity remaining for residue.

C. EXTERNAL VACUUM SPECIFICATIONS

1. External Vacuum Purchasing:

We do offer an external vacuum, but there is no necessity to buy it from us.

2. Specifications: We did our testing with an ordinary 2HP (peak), 6-gallon capacity, 120 VAC "Shop-Vac" obtained from a local hardware store. We used the standard 1-1/4" hose that came with it to connect to the Nozzle on the modified KD-100.

We expect that an ordinary home-use vacuum cleaner would also work quite well, but have limited our testing to the "Shop-Vac", because it (or an equivalent) is so readily available, inexpensive, and has considerable suction and capacity.

2. Suitable wand or hose connector:

The Nozzle will seal nicely **OVER** a 1-1/4" nominal OD vacuum tube or "wand".
The Nozzle will seal nicely **INSIDE** a 1-1/2" nominal ID vacuum tube or "wand".

D. Supplemental Service Manual Instructions

Section 12B. Removal Procedure:

New Step a) [Just ignore old Step a)]:

a1) Unplug power, open lid. Remove Inlet Guide Tongue.

a2) Slip the white Exhaust Hose out of the side hole of the black adapter nozzle.

Now proceed with the rest of the Removal Procedure as originally written.

12C. Installation Procedure:

ADD to Step 7b: b1) As you do this, insert the white Exhaust Hose into the hose exit hole of the enclosure as the Machine is installed in the Case.

REVISE Step 7h as follows:

h) Reposition exhaust tube as needed so exhaust air will exit through the rear Case hole and into the black rubber Nozzle. You can push it and adjust it using a small probe or bent paper clip, from the inside of the case, and also by reaching in with a probe through from the Nozzle outlet.
Make sure that the rear end of Motor's tube is flat against rear wall of Case, for a good seal.

Note that the Motor has a tiny built-in fan that pumps air through the Motor, and then out of the Case via the Motor's exhaust tube. We want to make sure this hot air gets pumped OUT and into the black rubber Nozzle, so that the External Vacuum can assist with Motor cooling.

REVISE Step j) as follows:

IGNORE "Install Residue Bag". There is none!

i) Gently feed the loose end of the white Exhaust Hose back into the black adapter nozzle side hole. It should come through, but not far. White Hose should not block the motor airway.

j) Close Case and Test!

Test machine with Key tape (punched or plain).

Connect shop vacuum cleaner to Nozzle. Vacuum ON FIRST and OFF LAST!

Check for leaks and good vacuum operation.

Look in Nozzle hole when done-- it should be pretty clean in there.

Look inside of Case when done. No residue should leak out into the Case.