

INTEROFFICE MEMORANDUM

TO:

Andy Verostic
Brian Fitzgerald
Grant Saviers
RK05 Engineering Staff

DATE: September 19, 1973

FROM: Mac Sloan

DEPT: Disk Engineering

EXT: 3178 LOC: 1-3

SUBJ: PROPOSED RK05 DISK-CARTRIDGE CLEANING PROCEDURE

EQUIPMENT

Small Phillips screwdriver, Vaco P-1 or equivalent.

EXPENDABLES

Texwipe pads 29-19557
Kimwipes Type 900-L (large)
91% Isophropyl alcohol 29-19665

PROCEDURE

Lay cartridge bottom side up on a clean hard surface such as a cleared desk top or table.

NOTE: Cartridge is "tippy" in this position.

Remove the screws that hold the cartridge top and bottom plastics together. Use only enough downward force on the screwdriver to hold the screwdriver in the screw head. Excessive force will strip the plastic's threads.

Pick up the disk by the hub. Don't remove the four screws in the hub holding the clamping ring and filter ring to the disk as this will allow the disk (and data) to move relative to the centering cone of the hub making the data unrecoverable.

Inspect oxide surface for:

"Comet Tail" scratches, a ding mark with a tapering scratch caused by a particle embedded in the disk and knocked out.

"Full Circle" scratches caused by a particle stuck to the head (clean the heads!).

Single spot marks, dings or scratches with no associated circular scratches caused usually by a dimple or bump on the disk or by pushing the air inlet door into the disk surface.

Black (burned) streaks of oxide.

Fingerprints.

NOTE: A large number of small streaks all over a well used disk surface is evidence of normal head-disk interference.

Inspect hub for:

Bent or nicked sector slots in sector ring.

Bent or nicked mating cone or mating ring-plate.

Inspect top plastic for:

Broken clear plastic seal on access door.
Retaining button retracts with opening of access door.
Worn retaining button in center of top.
Access door closes properly.
Signs of rubbing by the disk.

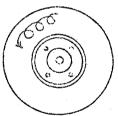
Inspect bottom plastic for:

Broken rivets on air inlet door.

Signs of rubbing by the disk.

Fingerprints on air inlet door.

Lay the disk on a spread-out Kimwipe on desk or table top. With one hand, press down on hub to prevent disk from tipping. With other hand, wipe disk surface with a Texpad or Kimwipe soaked in 91% Isopropyl alcohol. Use only 91% to 100% Isopropyl alcohol. Water, trichloroethylene and other solvents will attack the epoxy binder of the oxide. Wipe with small circular motions as you move around the circumference of the disk.



Wipe dry with a dry Kimwipe <u>before</u> the alcohol evaporates. Do not allow the alcohol to evaporate by itself as this will leave residue spots on the oxide.

Individual shiny spots or streaks on the oxide may be individually rubbed - GENTLY.

DO NOT BEND THE DISK SURFACE BY PRESSING DOWN TOO HARD.

Turn disk over holding by the $\underline{\text{hub}}$ only. DO NOT HANDLE DISK BY THE EDGES as this will deposit finger oils which may be transferred to the oxide surface by further wiping.

Dry lint may be blown off gently by mouth. Do not spit on the disk. Do not use plant air. It's usually full of water and oil. "Canned" air may be used.

57 g = 1

Wipe off the insides and outsides of both top and bottom plastics. Do not leave lint. Remove broken portions of clear plastic door seal which might break off in operation.

Reassemble cartridge. Try to find the original threads in the top plastic screw holes by rotating screws <u>backwards</u> 1 or 2 revolutions before driving screw. Use minimum downward force on screwdriver to avoid damaging plastic threads and to avoid generating plastic chips inside the cartridge.

The disk will probably damage the heads if used in the following conditions:

- 1. The center retaining button shows signs of rubbing on the hub cone of the disk. This generates particles inside the cartridge in operation and allows the disk to rattle around inside the cartridge during handling.
- 2. The air inlet door is loose or has broken rivets.
- 3. There are signs of disk rubbing on the insides of the cartridge.
- 4. The disk has non-removable scratches or dings which stick up above the smooth oxide surface.
- 5. The disk causes continual "tinging" after the usual short single "ting" on loading.
- 6. The disk continually deposits oxide on the heads.

NOTE: If known good disks deposit oxide on the heads, the heads may be at fault.

The cartridge may be probably used once, if necessary, to recover critical data but should be discarded or refurbished immediately thereafter or the heads may crash and be destroyed.

Disks have been known to transfer data reliably with aluminum exposed through the oxide. Disks have also been known to crash heads with no visible scratches. The ultimate criteria for a good disk must be: "Does it transfer data and does it leave the heads clean?"

Currently DEC is not in the pack cleaning business and Field Service personnel are not to clean customer's packs except in emergency circumstances. So far DEC has approved one vendor for disk cleaning service.

Precision Methods Incorporated Atlantic Research Building Shirley Highway at Edsall Road Alexandria, VA 22314 703-354-5100

PMI has representatives in several major cities in the US and for Europe. These representatives will come to the customer site, inspect and clean disk cartridges, and provide the customer with a written evaluation of the inspection at \$8.75 per pack.

/bca

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CONTINUATION

ECO NO. RKØ5-ØØ\$36

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SHEET 2 OF 2

CHANGE ORDER		Notice and Section 1985	SHEET Z OF Z
DOCUMENT/PART NO.	OLD REV	NEW DIST	DESCRIPTION OF CHANGE
			Sleeve to be slit lengthwise and cut into 1.00 ±.12 inch long pieces.
	e entre de la companya de la company		Fixture to slit and cut pieces has been given to Stan Purwin, Westfield. Attach rubber sleeve to horizontal wire of cartridge receiver into the corner formed by this wire and one of the longitudinal rails. Attach it to the side of the cartridge receiver facing the blower. The slit of the sleeve has to face downwards.
			Apply Loctite IS06 (DEC Part #4901094) and Adhesive Accelerator (#4901106) to inside of sleeve.
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FIELD CHANGE ORDER

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J.J.Walsh

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ITEM NO.	DOCUMENT/PART NO.	OLD REV	NEW REV	DISP CODE	
3	A-PL-RK05-0-0	D	E	06	RKO5 PARTS LIST
					Item #43: change P/N to A-PS-1211384-00, torsion spring (right hand).
e de la companya de l					Add item #173 P/N A-PS-1211384-01, torsion spring (left hand). Qty. 1
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FIELD EFFECTIVITY	* LEVEL OF URGENCY CODE
Retrofit all RK05's	A MANDATORY HIGH PRIORITY
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ARE TO BE REPORTED UNDER A "W" CHARGE CODE.	DISCRETE PROJECT NUMBER (FOR FIELD SERVICE REPORTING)
STANDARD APPLICABILITY - THIS FOO IS TO BE INSTALLED AT NO CHARGE FOR WARRANTY AND MAINTENANCE CONTRACT CUSTOMERS IN ACCORDANCE	AVAILABILITY DELAY NO PARTS
WITH THE TECHNICAL EFFECTIVITY ABOVE, OTHERWISE AT CUSTOMER EXPENSE.	PARTS None
DOCUMENTATION \$ PARTS \$ DEC ON-SITE LABOR \$	ESTIMATED DOWN TIME FOR
DEC'S MINIMUM BILLING APPLIES IF THIS FCO IS INSTALLED BY DEC. THE DEC LABOR CHARGE ASSUMES FCO INSTALLATION DURING REGULAR WORKING HOURS.	INSTALLATION AND TESTING 0.5 HOUR
IF INSTALLATION OUTSIDE OF REGULAR WORKING HOURS IS ORDERED, DEC'S LATEST SCHEDULE OF HOURLY RATES WILL APPLY.	SPECIAL TEST EQUIPMENT, TOOLS, OR SUPPLIES
FIELD OFFICE FCO DISTRIBUTION CODE	External Assembly Pliers
F IMMEDIATE FCO DISTRIBUTION TO ALL DEC FIELD OFFICES	#29-20709
F DF IMMEDIATE FCO DISTRIBUTION TO REGIONAL PRODUCT SUPPORT	
	LAST PREVIOUS FCO'S A037, B034, C033
FCO KIT DISTRIBUTION	RELATED OR PREREQUISITE FCO'S RK05-A0037
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X KITS, AS DEFINED BELOW, MAY BE ORDERED AS REQUIRED.	MAINTENANCE MANUAL CHANGE
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INSTALLATION AND TEST PROCEDURES	PARTS REQUIRED
Use external assembly pliers for removal and	01 12-11384-00 Spring. RH
replacement of retaining ring #90-09098 whenever possible. Two extra retaining rings	Q1 12-11384-01 Spring, LH
are included in the parts kit for this FCO.	Q2 90-09098 Retaining Rir
Notes This FCO should be installed immediate	ly in conjunction with FCO
DVOC 10037 - 033 PVOCIC whom commtone one o	modent All ather PKOSIa about

NOTES This FCO should be installed immediately in conjunction with FCO RKO5-A0037 on all RKO5's when symptoms are present. All other RKO5's should be updated on the next service or PM call.

FIF	LD	SERV	E	11.19	ROV	A

J.J.Walsh

(x) 6-19 (400/250) 65

	reconstruction and a	nem sesaran mengenian seleste koleta kadalah diangkan pengenjak diangkan pengenjak diangkan pengenjak diangkan	32010327502	eritana en la	nasinezaksa	General and Company of the Company o	THE LEGICAL TO THE THE PROTECT OF TH	CONTRACTOR OF THE PARTY OF THE	
		ENGINEERING CHANGE ORDER	EERING DISC PROJ NO. D98A06111			DATE 7/11/73	ECO NO. A MESTICAL SHEET OF COMMENT OF COMME	D 72.7 65.75	
	reconstruction rule two reconstruction rule to reconstruction rule rule rule rule rule rule rule rule	the idge on was a ed change makes the Also, ige re- reversed Rev. "D". ever tooling	UNIT TO BE CHANGE RK05 DISP CODE STORY OPTIONS AFFECTE RK05						
,	in mal	receivers in Westfield and Westminster immediately, 2. The introduction of the two stiff torsion springs (ECO-RK05-39) makes it necessary to have a sleeve on both sides of the cartridge receiver. When retrofitting drive to ECO-RK05-39 add second sleeve to cartridge receiver.							
	ITEM NO.	DOCUMENT/PART NO.			DISP	neces , according to the contract of the contr	DESCRIPTION OF CHA	ns destinente en partin distribution (note spiele gregor properties) en	DIAGNOSTICS TECH MANUA TESTER
	1	D-UA-RK05-0-0		gar ja	06	Call 161 o	ck Assembly out items 174, n sheet 3 as sh d up print.		TEST PROG TOOLING PKG INST EMENG SPEC PURCH SPEC
	2	A-PI-RK05-0-0	200 200 200	gran P	06	Add i P/N B	ck Assy. Parts tem #174, rubbe -MD-7411271 qty d up print.	r sleeve	FIELD SERVICE AFFECTED ST YES NO Customer Charge Product Line Char Type Of CHANG
	3.	E-PS-1210679-0-0	[2]	Ţ	06		idge Receiver e dimension .82	to 1.15.	□ ELECTRICAL MECHANICAL
	Ą	B-MD-7411271-0-0	EMAP	Casana.	08	New i	tem.		MODULE ORDER
	5	8.3 a r. 485 - 0	S. S.		06	revise	PER THIS E	60	PR MOD YES X NO
		DISPOSITION C	ODES	3	-Ancies of Property		APPRO	VAL SIGNATURI	ES
	01 - 02 - 03 - 04 - 06 - 07 - 08 -	RETURN TO STOCK (DELETED) USE PRESENT STOCK UNTIL NEW S' REWORK IMMEDIATELY (REPROFT (DELETED) (DELETED) DECLIETED) DECLIETED (THIS ASSEMBLY) NEW ITEM (THIS COMPANY) SCRAP IMMEDIATELY		AVAI	LABLE	design engr G。S eng mgr (opt) field service (opt chief engr (modui	Typewritten Schneider	Hand Signature	



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FELD CHANGE ONDER

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	PCO RK05- B 0041	
-	PAGE 1 OF	2

	FCO WITH THE LEVEL OF URGENCY CODE REPLACING THE LEADING ZERO.
FIELD EFFECTIVITY	* LEVEL OF URGENCY CODE
Retrofit all RKO5's at next scheduled PM	A MANDATORY HIGH PRIORITY
	B MANDATORY
	(HIGH PRIORITY IF SPECIFIC HARDWARE, SOFTWARE, O SYMPTOMS ARE PRESENT
FIELD RETROFIT IS ANTICIPATED IN 100% OF UNITS DEFINED ABOVE.	D APPLICABLE IF SPECIFIC HARDWARE, SOFTWARE, OF SYMPTOMS ARE PRESENT
ALI, DEC INSTALLATION LABOR AND MATERIAL	E PRODUCT IMPROVEMENT OPTIONAL LOW PRIORITY
ARE TO BE REPORTED UNDER A "W" CHARGE CODE."	DISCRETE PROJECT NUMBER
STANDARD APPLICABILITY - THIS FCO IS TO BE INSTALLED AT NO CHARGE FOR WARRANTY AND MAINTENANCE CONTRACT CUSTOMERS IN ACCORDANCE	(FOR FIELD SERVICE REPORTING)
WITH THE TECHNICAL EFFECTIVITY ABOVE, OTHERWISE AT CUSTOMER EXPENSE.	AVAILABILITY DELAY NO PARTS
DOCUMENTATION S PARTS S DEC ON-SITE LABOR S	EVOLTO-
DEC'S MINIMUM BILLING APPLIES IF THIS FOO IS INSTALLED BY DEC. THE DEC LABOR CHARGE ASSUMES INCOMMENDATION DURING REQULAR WORKING HOURS	INSTALLATION AND TESTING 0.5 HOUR
IF INSTALLATION OUTSIDE OF REGULAR WORKING HOURS IS ORDERED, DEC'S LATEST SCHEDULE OF HOUREY, AATES WILL APPLY.	SPECIAL TEST EQUIPMENT, TOOLS, OR SUPPLIES
FIELD OFFICE POO DISTRIBUTION CODE	
F F IMMEDIATE FOO DISTRIBUTION TO ALL DEC FIELD OFFICES DF IMMEDIATE FOO DISTRIBUTION TO REGIONAL PRODUCT SUPPORT	
and the second s	LAST PREVIOUS FCO'S CO39, A037, B036
FCO KIT DISTRIBUTION	RELATED OR PREREQUISITE FCO'S
	0039, A037, B036
	MAINTENANCE MANUAL CHANGE
KITS, AS DEFINED BELOW, MAY 85 ORDERSO AS REQUIRED.	11
CONTENTS OF AN ESIG INITIATED KIT	OPERATIONAL PROGRAMS AFFECTED
FIO FCO PRINTS PARTS ALL UNITS LISTED ON THE	
ECP CONFIGURATION FILE WITH THE FOLLOWING	The secretary and the second s
CONTENTS OF A FIELD ORDERED KIT SERVICE STATUS CODES: FIO FCO PRINTS PARTS	VERIFICATION MAINDECS
X X X	
SECTION OF A PARTY AND ADMINISTRATION OF A PARTY OF A P	
installation and test procedures The rubber sleeves are to be installed on the	PARTS REQUIRED
cartrigde receiver at the points where the	Q2* 74-11271 Rubber Sleeve
access door opener rests upon it.	
(see illustration on FCO Page 2)	
Notes * An extra sleeve is included in the I	FCO Parts Kit for use in the
event that FCO RKO5-B0036 has not be	een implemented.
0,0110 01100 1 00 1 1100 1 1100 1	
FIELD SERVICE APPROVAL	200 1 1 200
W. Linton	(C) F902
METALONDE TRANSPORTE AND PROBLEM TO THE AND ADDRESS AN	(x) 8-10 (400/100)150



CHANGE ORDER

FCO RK05 - B 0041

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FCO INSTALLATION AND TEST PROCEDURE

