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Rev 4	UNIT 0	<i>RK05 ANNUAL PROCEDURES</i>

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UNIT 0

1.0 PURPOSE/SCOPE

1.1 Purpose

1.1.1 To clean and verify proper alignment of RKO5 disk drives.

1.2 Scope

1.2.1 To verify that the RKO5 disk drive is operating correctly and that the power supply's are within specifications.

2.0 REFERENCES

2.1 Manuals

2.1.1 DEC. RKO5 disk drive Maintenance Manuals.

2.1.2 DEC. Print set.

2.2 Flowsheets

2.2.1 NK-21-OP-0-63590-FS1, FS2 Fuel Handling Control System Block Diagram.

3.0 PREREQUISITES

3.1 Preliminary Considerations

3.1.1 This procedure will require one man. The time required is about three hours plus two hours for each additional drive.

3.1.2 The RKO5 disk drives are located in the F/H control equipment rooms, MATF control room and in the F/H maintenance shop.

3.2 Precautions

3.2.1 The pins of the backplane can be easily shorted with catastrophic results. Use an insulated probe tip when measuring voltages.

3.2.2 The SERVO motor is powerful. Watch your fingers.

3.2.3 The cartridge is not a sealed unit and is extremely vulnerable to dirt, care must be taken to keep the cartridge and the interior of the drive clean.

3.2.4 Smoke particles, finger print smudges, or dust specks can cause head crashes.

3.3 Isolation

3.3.1 No required.

3.4 Tools and Equipment

3.4.1 Dual Channel Oscilloscope,

3.4.2 Fluke multimeter,

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- 3.4.3 Vacuum cleaner,
- 3.4.4 Inspection Mirror,
- 3.4.5 Isopropyl Alcohol,
- 3.4.6 Alignment, Diagnostic & Scratch Cartridges,
- 3.4.7 Screwdrivers, slotted & phillips,
- 3.4.8 Ball Handled Allen Wrenches, 1/16, 5/64, 3/32, 3/16 & 1/8,
- 3.4.9 Head cleaning kit SCN 817C3363
- 3.4.10 Replacement LED's SCN 812B7343, 810A7080.
- 3.5 Quality Assurance**
- 3.5.1 Include completed CALL-UP sheet with your Work Report.
- 3.5.2 Note any abnormal conditions, observations or repairs on a Work Report.

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4.0 PROCEDURE

NOTE: this procedure is to be done in conjunction with the RKO5 QUARTERLY PROCEDURE CMP-63591-016.

4.1 Cleaning & Inspection

- 4.1.1 Loosen the hose clamp and remove the absolute filter.
- 4.1.2 Clean any dusty areas with Texpads. Also inspect airduct for signs of aging, if necessary replace airduct at this time.
- 4.1.3 Install a new filter SCN 817C3335. Ensure that the filter is snapped into the blower port and that the velcro strip is in place on the bottom of the filter.
- 4.1.4 Tighten the hose clamp.
- 4.1.5 Push the spindle motor mounting plate towards the spindle to relieve belt tension, and slip the belt off the pulleys. Ensure that the pulleys are not loose or have moved on their shaft.
- 4.1.6 With the belt removed, check for horizontal or vertical wobble of the spindle; if wobble is noticeable and excessive, replace the spindle.
- 4.1.7 Using a Texpad clean the spindle and drive motor pulleys.
- 4.1.8 Spin disk drive spindle and listen for brush squeaking noise. If brushes are squeaking, loosen the mounting screws and repetition brushes, then retighten screws. Ensure that the curved brushes are centered on the spindle hub and that the brush assembly is not tilted or twisted. Full contact of the brushes to the shaft is necessary to prevent brushes from squealing.
If brushes are worn out, install a new brush assembly SCN 817D6044.
- 4.1.9 Inspect the spindle drive belt. IF it is frayed or cracked, install a new belt. SCN 817C6793. Otherwise reinstall the same belt by pushing the spindle motor mounting plate towards the spindle and slipping the belt around the pulleys.
- 4.1.10 Check Linear Positioner bearings for wear.
- 4.1.11 Disable the positioner by disconnecting P5 connector on power supply.
- 4.1.12 Place a clean Texpad between the heads to prevent them from contacting each other.
- 4.1.13 Using a texpad clean the linear positioner guides.
- 4.1.14 Without applying undue pressure, move carriage and coil assembly in and out while observing the four bearings on the linear positioner. Each should turn equally; if a bearing stops while moving the carriage, the carriage assembly is not properly aligned. If a bump is felt the bearing may be worn or have a flat spot on it. With either symptom, replacement of the linear positioner is recommended. Reconnect P5 connector, and heads will retract.
- 4.1.15 Remove the mounting screws from the blower shroud using an Allen head driver and lift the blower assembly out of RKO5, being careful not to damage the foam seal.
- 4.1.16 If necessary, remove the blower motor wires from TB-4.
- Green wire = TB-4, pin 1.
Blue wire = TB-4, pin 2.
Black wire = TB-4, pin 4.