
Title:

RC 36-00202.01

FLEXIBLE DISC RELIABILITY
OPERATING INSTRUCTION

 **REGNECENTRALEN**

RC SYSTEM LIBRARY: FALKONERALLE 1 DK-2000 COPENHAGEN F

RCSL No: 44-RT 1641
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Author: Ole Sylvest

Keywords:

Musil, Device Reliability, Flexible Disc, Test.

Abstract:

The following pages present the first, general pages of the reliability program listing.

These pages form an operating guide to the program

LOAD After autoloading of

RC 3600 SYSTEM MAINTENANCE

Tape/Disc, or while running RC 3600 MUS/DOMUS software (only for RC 3600 systems), this device reliability program can be loaded and executed the following way:

After contact with operative system = S
(refer to previous chapters or the system operating guide) type:

LOAD TIME < 1 > < 2 > < 3 > P202 **RETURN**

- 1: FD0 = Flexible Disc
- FD1 = Flexible Disc second

EVENTUAL Log Device, - if not TTY:

- | | |
|-------------------------|--------------------|
| 2: LPT = Line Printer | 3: Empty = ASCII |
| CPT = Charaband Printer | TAB1 = ASCII |
| SP = Serial Printer | TAB2 = RC Standard |
| | TAB3 = PL 1 |
| | TAB4 = Hungarian |
| | TAB5 = Cyrillic |



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0067 ABSTRACT:

THIS PROGRAM PERFORMS CHECK OF RELIABILITY OF HARDWARE AND THE DISKETTE SURFACE. DURING RUNNING LOGGING OF ILLEGAL AND UNDEFINED SECTORS WILL BE DONE.

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0072 SIZE:

3246 BYTES.

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0074 DATE:

04TH. JUNE 77.

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0076 SPECIAL REQUIREMENTS:

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AT COMPILE TIME:

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CODEPROCEDURE P0001 TIME

RCSL: 43-GL182

CODEPROCEDURE P000X DELAY

RCSL: 43-GL619

CODEPROCEDURE P000X CHANGETABLE

RCSL: 43-GL1519

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DRIVERS FOR PROGRAM:

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DRIVER FOR SELECTED LOGDEVICE.

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FD004 FOR UNIT 0.

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FD002 FOR UNIT 1.

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TIME

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0093 GENERAL INFORMATION:

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THE PROGRAM ACTS IN THE FOLLOWING WAY: AFTER ALL PARAMETERS HAS BEEN INITIALIZED AND A START COMMAND HAS BEEN GIVEN THE PROGRAM STARTS WRITING ON THE STARTSECTOR AND THE ENDSECTOR. AFTERWARDS IT CHECKREADS THE SAME TWO SECTORS, SHIFTS THE CHECK-BIT PATTERN (USING CYCLIC CODE) AND THEN INCREMENT THE STARTSECTOR AND DECREMENT THE ENDSECTOR WITH ONE. AND MAKE THE WRITING AND READING AGAIN UNTIL STARTSECTOR ARE GREATER THAN THE ENDSECTOR. AFTER END OF PASS IT STARTS FROM THE BEGINNING AGAIN.

IF CHECK READ IS USED THEN PROGRAM ONLY READS THE SPECIFIED NUMBER OF SECTORS AND TESTS IF THE SURFACE IS OK. NOTE THAT THE DATA ON THE DISKETTE NOT WILL BE DESTROYED.

0113 DEFINITIONS:

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ILLEGAL SECTORS:

PARITY ERROR IN THE DATA FIELD ON THE SECTOR.

UNDEFINED SECTOR:

EITHER DOES SECTOR NOT EXIST ON THE REASON OF PARITY ERROR IN ADDRESS FIELD ON THE SECTOR OR HARDWARE TROUBLE.

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RUNTIME PARAMETERS:

UNIT NO

THE UNIT TO TEST. ANSWER SHOULD BE FROM 0 TO 9.

AREA TO BE TESTED (1-2002)

START SECTOR

END SECTOR

THE AREA WHICH SHOULD BE TESTED. SHOULD BE BETWEEN 1 AND 2002 BOOTH INCLUSIVE.

OUTPUT LOGDEVICE (TTY), (LPT), (SP), (CPT)

THE DEVICE WHERE THE STATISTIC SHOULD BE LOGGED ON.

TTY = TELETYPE.

LPT = LINEPRINTER.

SP = SERIAL PRINTER.

CPT = CHARABAND PRINTER.

TYPE (YES) FOR SURFACE CHECK ELSE NL

WILL READ ON THE DISKETTE SURFACE NUMBER OF SPECIFIED SECTORS TO CHECK THEIR STATE. WITHOUT DESTROYING THEIR CONTENTS.

TESTPERIOD (HOURS.MINUTES)

THE EFFECTIVE TIME THE PROGRAM SHOULD RUN.

STOP ON ERROR (YES) OR WAIT UNTIL STATISTIC (NO)

YES: EXECUTION WILL STOP ON FIRST MET ERROR.

NO: EXECUTION WILL STOP WHEN TIME IS REACHED OR AN HARD ERROR HAS OCCURED.

TYPE (HELP) TO SEE COMMAND ELSE NL

WILL WRITE POSSIBLE COMMANDS AND THEIR MEANING.

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0175 INPUT MESSAGES:
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0177 START
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0179 STARTS EXECUTION AND RESETS COUNTERS.
0180 AFTER LOG DEVICE ERROR START MEANS
0181 REPEAT THE OPERATION.
0182
0183 STOP
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0185 STOPS EXECUTIONS. AFTER LOG DEVICE
0186 ERROR STOP MEANS SKIP THE LOG OUTPUT.
0187
0188 CONT
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0190 EXECUTION IS CONTINUED WITHOUT CHANGING STATUS.
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0192 INIT
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0194 DISPLAY RUNTIME PARAMETERS AND INITIATES FOR NEW EXECUTION.
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0196 RELEASE
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0199 WILL RELEASE DRIVERS AND SET PROGRAM IN NEUTRAL.
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0202 HELP
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0204 WILL DISPLAY POSSIBLE COMMANDS.
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OUTPUT MESSAGES:

EXECUTION STARTED: HH.MM.SS
 WRITTEN AS ACCEPT OF COMMAND START.
 EXECUTION STOPPED: HH.MM.SS
 WRITTEN AS ACCEPT OF COMMAND STOP.
 EXECUTION CONTINUED: HH.MM.SS
 WRITTEN AS ACCEPT OF COMMAND CONT.
 LOG DEVICE ERROR: NNNNN
 CONSULT THE RC3600 OPERATORS GUIDE.
 TEST STATISTIC AND ERROR STATISTIC:
 USER INFORMATION TO SEE THE RESULT OF THE TEST.
 TEST STATISTIC:
 TEST STARTED : HH.MM.SS
 TEST ENDED : HH.MM.SS
 EFFECTIVE TIME: HH.MM.SS
 NUMBER OF TESTED SECTORS: XXXXX
 THE NUMBER OF SECTORS WHICH HAS BEEN TESTED
 BY PROGRAM SINCE START.
 PARITY ERROR ON SECTORS(S):
 SECTOR: XXXXX
 WILL LOG UP TO 20 SECTORS WITH PARITY ERRORS.
 UNDEFINED SECTOR(S):
 SECTOR: XXXXX
 WILL LOG UP TO 20 SECTORS WITH UNDEFINED SECTORS.
 ERROR STATISTIC:
 ERROR NN: NNNNN EXPLANATION
 NN IS THE ERRORNUMBER.
 NNNNN IS NUMBER OF TIMES THE ERROR HAS OCCURED.
 EXPLANATION IS A SHORT DESCRIPTION OF THE ERROR TYPE.

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DURING RUN FOLLOWING MESSAGE CAN OCCUR:

*** HH.MM.SS DISKETTE RELIABILITY PROGRAM ***

- 1 FDN <ERROR KIND> AT TRACK XX SECTOR XX
- 2 UNDEFINED SECTOR(S):
SECTOR: XXXXX
- 3 PARITY ERROR ON SECTOR(S)
SECTOR: XXXXX

1 MEANS THAT DURING CHECK READ AN ERROR WAS FOUND
IN SPECIFIED TRACK.

2 MEANS THAT DURING TEST AN SECTOR WAS NOT FOUND.

3 MEANS THAT THE SPECIFIED SECTOR HAS AN PARITY
ERRCR. NOTE THAT IF THERE IS NOT AN STATUS ERROR-
MESSAGE IT COULD BE THE CRC CHECK WHICH DOES NOT
FUNCTION.

