digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

E C DEC-O-LOG Engineering Change Order Log

CRO4
Card Reader

PROCESSOR TYPE   All

CR04-A0001   CODE: F
DEC-72 - PROBLEM: This is a DEC distribution of vendor ECO's : Documation #EO-2091, 2099, and 3000. Card stacking problems with model M200 card readers in low humidity environments.
CORRECTION: Add new stacker plates.
In-plant effectivity -02 phase-in
Field effectivity -Retrofit all CR10-F, CR11, CR12-F, CR15-F, CR8-F, CR8/I-F with serial numbers under 720400.
(Time To Install And Test .5 Hour.) (Kit Contents -FCO/Prints And Parts)

CR04-B0002   CODE: F
JAN-73 - PROBLEM: This is a DEC distribution of a vendor ECO : Documation #EO-2009. Picking problems may occur under low humidity operation.
CORRECTION: Add new riffle cap and follower.

NOTE: For DEC SYSTEM-10, reference FCO CR10-A0009.
In-plant effectivity -03 retrofit
Field effectivity -Retrofit all CD11's, CR15-D's and CR15-E's, M1000's and M1200's, with serial numbers under 720400.
(Time To Install And Test 1.0 Hour.) (Kit Contents -FCO/Prints And Parts)

CR04-B0003   CODE: F
JAN-73 - PROBLEM: This is a DEC distribution of a vendor ECO : Documation #EO-2009. Picking problems may occur under low humidity operation.
CORRECTION: Add new riffle cap and follower.

NOTE: For DEC SYSTEM-10, reference FCO CR10-A0009.
In-plant effectivity -03 retrofit all CD11 and CR8/I-F. Retrofit CR11 as required.
Field effectivity -Retrofit all CD11's, CR8/I-F, CR8/F and CR15-F, M200's, with serial numbers under 720400. Retrofit CR11's as required.
(Time To Install And Test 1.0 Hour.) (Kit Contents -FCO/Prints And Parts)

CR04-B0004   CODE: F
JAN-73 - PROBLEM: This is a DEC distribution of a vendor ECO : Documation #EO-2009. Last card may not pick when using new riffle cap.
CORRECTION: Add new input follower.

NOTE: FCO CR10-A0009, which adds a new riffle cap, is a prerequisite to this FCO.
In-plant effectivity -03 retrofit
Field effectivity -Retrofit all CR10-D's and CR10-E's, M1000's and M1200's, with serial numbers under 720400.
(Time To Install And Test .5 Hour.) (Kit Contents -FCO/Prints And Parts)

CR04-B0005   CODE: F
JAN-73 - PROBLEM: This is a DEC distribution of a vendor ECO : Documation #EO-2009. Last card may not pick when using new riffle cap.
CORRECTION: Add new input follower.

NOTE: FCO CR10-A0009, which adds a new riffle cap, is a prerequisite to this FCO.
In-plant effectivity -03 retrofit
Field effectivity -Retrofit all CR10-F's, M200's, with serial numbers under 720400.
(Time To Install And Test .5 Hour.) (Kit Contents -FCO/Prints And Parts)

CR04-E0006   CODE: F
MAY-73 - PROBLEM: This is a DEC distribution of a vendor FCO : Documation ECO #00000896. Drive motor shutdown may be desired.
CORRECTION: Rewire so that drive motors shutdown when last card is read.
In-plant effectivity -Install at customer request.
Field effectivity -Optional: Install only at customer request on CR04-H and CR04-J.
(Time To Install And Test 1.0 Hour.) (Documentation $ 5.00 , Parts $ 45.00 , DEC Labor -See Note) NOTE: The DEC on-site labor charge will be the time required to install and test the FCO at the current hourly rate. (Kit Contents -FCO/Prints And Parts)

CR04-B0007   CODE: F
MAY-73 - CORRECTION: This is a DEC distribution of a vendor ECO, Documation ECO M/L1140769J K1. Changes the blower motor capacitor from 10 ufd, 365 volts to 10 ufd, 370 volts; the new part required is Documation #45F276.
In-plant effectivity -None
Field effectivity -Retrofit all 230 volt, 50 Hz CRO4's with serial number below 7301001.
(Time To Install And Test .5 Hour.) (Kit Contents -FCO/Prints And Parts)

CR04-E0008   CODE: F
MAY-73 - CORRECTION: This is a DEC distribution of a vendor ECO : Documation ECO #101393-01. It shuts off drive motors after the last card has been read. This FCO is applicable to CR04-E, CR04-F, CR10-D, and CR15-D.
In-plant effectivity -None
Field effectivity -Optional; install only at customer request.
(Time To Install And Test 1.0 Hour.) (Documentation $ 5.00 , Parts $ 30.00) The DEC on-site labor charge will be the time required to install and test the FCO at the then current hourly rate. (Kit Contents -FCO/Prints And Parts)

CR04-E0009   CODE: F
MAY-73 - CORRECTION: This is a DEC distribution of a vendor ECO : Documation ECO #00000895. It shuts off drive motors after the last card has been read. This FCO is applicable to CR04-A, CR04-B, CR04-C, CR04-D, CR8-F, CR8/I-F, CR10-F, CR11, CR12-F, and CR15-F.
In-plant effectivity -None
Field effectivity -Optional; install only at customer request.
(Time To Install And Test 1.0 Hour.) (Documentation $ 5.00 , Parts $ 15.00)
' the DEC on-site labor charge will be the time required to install and test the FCO at the then current hourly rate. (Kit Contents --FCO/Prints And Parts)