digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

Engineering Change Order Log
DEC-O-LOG

AD01-D

10 Bit A/D Converter

| PROCESSOR TYPE | PDP-11 Family |

There is one Master Drawing List, A-ML-AD01-0, to which ECO's for all variations of AD01's are posted, AD01-AN, -AP, -DA, -DB, -FA, and -FB. The AD01-0 ML revisions which resulted from AD01-D ECO's are "A ", "C ", "P ", "R ", and "S ".

AD01D-00001   CODE: P
OCT-70 - PROBLEM: Number assigned to left end assembly panel is incorrect. C-IA-55-09090-0-0 should be C-IA-54-09090-0-0. Drawing A-SS-55-09084-0-1 is improperly labeled.
CORRECTION: Make appropriate drawing corrections.

NOTE: This ECO creates AD01-DA and AD01-DB ML revision "A ".
In-plant effectivity -06 documentation change only

AD01D-00002   CODE: P
DEC-70 - CORRECTION: Documentation of left end panel for AD01-D required changes to facilitate manufacturing. Cost reduction as a result of one step being eliminated. Polarity of capacitors called out on drawing.
In-plant effectivity -06 documentation change

AD01D-C0003   CODE: DF   WL: A
JAN-71 - PROBLEM 1: AH05 Sign Option unstable.
CORRECTION 1: Use A862, 10 Bit Plus Sign A/D converter, in place of the A315 Sign Option.
PROBLEM 2: Multiplexer expansion not possible.
CORRECTION 2: Add multiplexer bit in CSR , move gain select bits into lower byte.

NOTE 1: Any field retrofit will require replacement of the revision "0 " wired frame with a revision "A " frame. AD01-D's having AH05 will be corrected at no charge. Other units will be retrofitted only at customer expense.

NOTE 2: This FCO creates AD01-DA ML revision "B ".
In-plant effectivity -03 retrofit immediately
Field effectivity -Exchange AD01-D's shipped before January 7, 1971 as required.
(Time To Install And Test 3.0 Hours.) (Kit Contents --FCO/Prints And Parts)

AD01D-00004   CODE: P
MAR-71 - CORRECTION 1: Specifications, Calibration Procedure, Acceptance Procedure and Accessory List added to print set.
CORRECTION 2: 5408778-0-0 priority jumper called out on Module Utilization drawing and Parts List.

NOTE: This ECO creates AD01-DA ML revision "C ".
In-plant effectivity -06 documentation change only

AD01D-00005   CODE: P
MAY-71 - PROBLEM: Calibration Procedure and Engineering Specifications should not be called out on Master Drawing Lists with reference notes.
CORRECTION: Remove reference notes and add Calibration Procedure and Engineering Specifications to customer print sets. Also renumber multiplexer channels by providing an additional reference number.

NOTE: This ECO creates AD01-DA ML revision "D ".
In-plant effectivity -06 documentation change only

AD01D-00006   CODE: P
SEP-71 - PROBLEM: When the AD01-D is used in the LAB11, hand wiring changes are required.
CORRECTION: Add a print to the AD01-D Master Drawing List that describes the modifications required.

NOTE 1: See correction supplement ECO AD01D-00008.

NOTE 2: This ECO was distributed for Field Service information purposes.

NOTE 3: This ECO creates AD01 ML revision "A ".
In-plant effectivity -06 documentation change only

AD01D-00007   CODE: P
SEP-71 - CORRECTION 1: Add Accessory List to print set.
CORRECTION 2: Add Software List to print set.
In-plant effectivity -06 documentation change only

AD01D-00008   CODE: P
OCT-71 - CORRECTION: This ECO is a correction to ECO AD01D-00006; corrects several drawing errors.

NOTE 1: This ECO was distributed for Field Service information purposes.

NOTE 2: This ECO creates AD01 ML revision "C ".
In-plant effectivity -06 documentation change only

AD01D-B0009   CODE: F
OCT-72 - PROBLEM: AD01-D Calibration Procedure cannot be run on PDP-11/05 due to lack of data lights for conversion display loops.
CORRECTION: Utilize Conversion Print Test on AD01-D diagnostic or use KM11 maintenance module. Add to procedures.

NOTE: This FCO creates AD01 ML revision "P ".
In-plant effectivity -06 documentation change only
Field effectivity -Update documentation for AD01-D on PDP-11/05 or PDP-11/10.
(Time To Install And Test N/A) (Kit Contents -F467 -FCO/Prints)

AD01D-D0010   CODE: F
MAY-73 - PROBLEM 1: An AD01-D with an A812 converter has poor differential linearity; skips states.
CORRECTION 1: Increase width of start pulse from 500 nsec to 800 nsec.
CORRECTION 2: Correct errors and omissions in Calibration Procedure.
CORRECTION 3: Correct errors in Block Schematic.

NOTE: This FCO creates AD01 ML revision "R ".
In-plant effectivity -03 correct only if symptoms are present.
Field effectivity -During scheduled maintenance, retrofit all AD01-D's, which use the A812 module, if triple stating exists.
(Time To Install And Test .5 Hour.) (Kit Contents -F797 -FCO/Prints)

AD01D-00011   CODE: D
JUN-73 - CORRECTION: Correct errors in the Wire List.

NOTE: This ECO creates AD01 ML revision "S ".
In-plant effectivity -03 retrofit immediately

AD01D-E0012   CODE: F   WL: B
DEC-73 - PROBLEM 1: There is no AC/DCLO indication should logic power fail in the AD01.
CORRECTION 1: Replace the H716 Power Supply with an H726-E which has AC/DCLO .
PROBLEM 2: The VW02 cannot be plugged into the AD01-D directly.
CORRECTION 2: Add prewired port at location B22.
PROBLEM 3: Production and servicing difficulties due to confusing areas in the prints, and missing wire in backplane.
CORRECTION 3: Miscellaneous print corrections and addition of the missing wire.

NOTE 1: See correction supplement FCO AD01D-E012A.

NOTE 2: This FCO creates AD01 ML revision "U ".
In-plant effectivity -Units shipped after 1/1/74 should have this ECO installed.
Field effectivity -Retrofit all AD01-D's
(Time To Install And Test 2.0 Hours.) (Documentation $ 5.00 , Parts $ 199.00)
' 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 -PF1143 - FCO/Prints And Parts)

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E C
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AD01-D

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PROCESSOR TYPE   PDP-11 Family

AD01D-E012A   CODE: F
DEC-73 - CORRECTION 1: Change part number reference on FCO AD01D-E0012 from #12-09933 to H726-E.
PROBLEM 2: BREAK-IN/EFFECTIVITY date cannot be met by Westminster facility.
CORRECTION 2: Change BREAK-IN/EFFECTIVITY to February 1, 1974.
In-plant effectivity -Delayed
Field effectivity -Unchanged