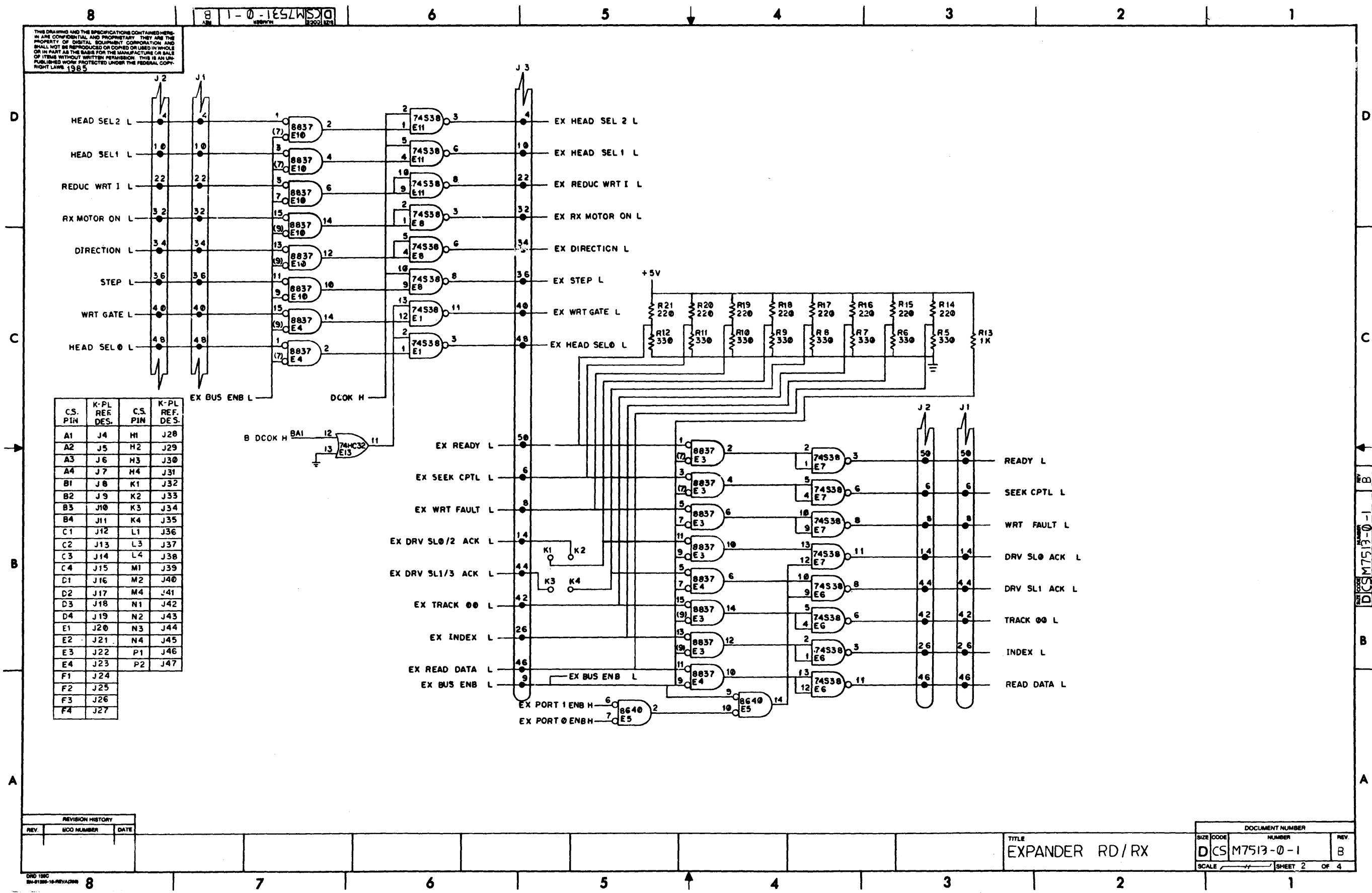


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C.S. PIN	K-PL REF. DES.	C.S. PIN	K-PL REF. DES.
A1	J4	H1	J28
A2	J5	H2	J29
A3	J6	H3	J30
A4	J7	H4	J31
B1	J8	K1	J32
B2	J9	K2	J33
B3	J10	K3	J34
B4	J11	K4	J35
C1	J12	L1	J36
C2	J13	L3	J37
C3	J14	L4	J38
C4	J15	M1	J39
D1	J16	M2	J40
D2	J17	M4	J41
D3	J18	N1	J42
D4	J19	N2	J43
E1	J20	N3	J44
E2	J21	N4	J45
E3	J22	P1	J46
E4	J23	P2	J47
F1	J24		
F2	J25		
F3	J26		
F4	J27		



REVISION HISTORY		
REV.	ECO NUMBER	DATE

TITLE
EXPANDER RD/RX

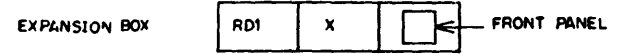
DOCUMENT NUMBER			
SIZE	CODE	NUMBER	REV.
DCS	M7513-0-1		B
SCALE		SHEET 2 OF 4	

DCS M7513-0-1

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4.0 SOME TYPICAL M7513 CONFIGURATIONS:
 JUMPER SETTINGS FOR SEVERAL POSSIBLE M7513 CONFIGURATIONS IS GIVEN IN APPENDIX A. A FEW POPULAR CONFIGURATIONS ARE DESCRIBED IN THIS SECTION

A) EXAMPLE #1 (FACTORY CONFIGURATION):



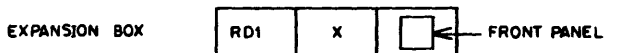
X = EMPTY OR DEVICE NOT SUPPORTED BY THE RQDX

JUMPER SELECTION FOR THIS EXAMPLE

RDY AND WRT PROT	DRIVE SEL	DRIVE ACK	EX PORT SEL	INT PORT SEL
A1 TO A3	*E1 TO E2	K2 TO K4	*L1 TO L3	N1 TO N2
B1 TO B3	F1 TO F3		L4 TO M2	*N4 TO P2
	*F2 TO F4			
	*H3 TO H4			

* = THESE JUMPERS ARE INSTALLED TO AVOID FLOATING INPUTS ON THE M7513

B) EXAMPLE #2:



X = EMPTY OR DEVICE NOT SUPPORTED BY THE RQDX

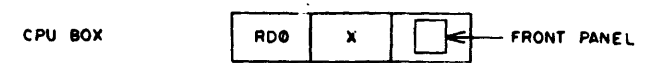
JUMPER SELECTION FOR THIS EXAMPLE

RDY AND WRT PROT	DRIVE SEL	DRIVE ACK	EX PORT SEL	INT PORT SEL
A1 TO A3	*E1 TO E2	K2 TO K4	*L1 TO L3	N1 TO N2
B1 TO B3	F1 TO F3		L4 TO M2	*N4 TO P2
	*F2 TO F4			
	*H3 TO H4			

* = THESE JUMPERS ARE INSTALLED TO AVOID FLOATING INPUTS ON THE M7513

NOTE: (1) THE JUMPER SELECTION FOR EXAMPLES #1 AND #2 ARE IDENTICAL
 (2) FACTORY CONFIGURATION FOR THE M7513 JUMPERS WILL BE THE SAME AS EXAMPLES #1 AND #2 ABOVE.
 (3) THE TERM CPU BOX IS USED FOR SIMPLICITY ALL THAT THIS IMPLIES IS THE BOX IN WHICH THE RQDX CONTROLLER RESIDES.
 (4) RQDX = RQDX1, RQDX2, RQDX3

D) EXAMPLE #4:



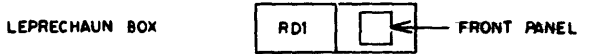
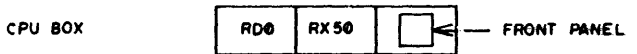
X = EMPTY OR DEVICE NOT SUPPORTED BY RQDX

JUMPER SELECTION FOR THIS EXAMPLE

RDY AND WRT PROT	DRIVE SEL	DRIVE ACK	EX PORT SEL	INT PORT SEL
A1 TO A3	*E1 TO E2	K1 TO K3	L3 TO M1	N1 TO N2
B1 TO B3	F1 TO F3	K2 TO K4	L4 TO M2	N4 TO P2
C1 TO C3	H1 TO H2			
D1 TO D3	*H3 TO H4			

* = THESE JUMPERS ARE INSTALLED TO AVOID FLOATING INPUTS ON THE M7513

C) EXAMPLE #3:



JUMPER SELECTION FOR THIS EXAMPLE

RDY AND WRT PROT	DRIVE SEL	DRIVE ACK	EX PORT SEL	INT PORT SEL
A1 TO A3	*E1 TO E2	K2 TO K4	*L1 TO L3	N1 TO N2
B1 TO B3	F1 TO F3		L4 TO M2	*N4 TO P2
	*F2 TO F4			
	*H3 TO H4			

* = THESE JUMPERS ARE INSTALLED TO AVOID FLOATING INPUTS ON THE M7513

FOR OTHER SYSTEM JUMPER CONFIGURATIONS SEE APPENDIX A

REV.	ECO NUMBER	DATE

TITLE
EXPANDER RD/RX

SIZE CODE	DOCUMENT NUMBER	REV.
DCS	M7513-0-1	B

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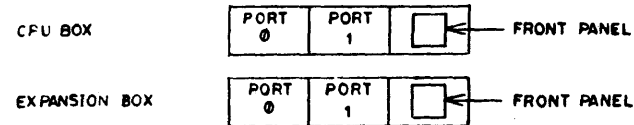
DCS M7513-0-1 B

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APPENDIX - A PAGE 14

THE FOLLOWING THREE PAGES LIST JUMPER SELECTIONS FOR SEVERAL DIFFERENT M7513 CONFIGURATIONS BASED ON SYSTEM DESCRIPTION. THIS IS NOT, HOWEVER, A COMPLETE LIST BUT COVERS THE MOST REASONABLE ONES. IF THE USER HAS A SPECIAL CASE WHICH IS NOT FOUND IN THE TABLE THEY SHOULD FIGURE OUT THE JUMPER SELECTION BASED ON THE SPECIFICATIONS.

THE TERMS USED TO DESCRIBE THE SYSTEM ARE ILLUSTRATED BELOW:



THE ABOVE PORT IDENTIFICATION IS USED FOR ALL THREE M7513 JUMPER CONFIGURATION TABLES.

TO CONFIGURE THE M7513 TO MEET YOUR SYSTEM REQUIREMENTS DO THE FOLLOWING:

- TURN TO TABLE 1 (CPU BOX) AND SELECT THE APPROPRIATE COLUMN. SAY YOU HAVE AN RD0 IN PORT 0 AND RX50 IN PORT 1 THEN YOU SHOULD PICK COLUMN C IN TABLE 1, CONFIGURE THE M7513 AS DESCRIBED.
- NEXT TURN TO TABLE 2 (EXPANSION BOX OR LEPRECHAUN) AND SELECT THE APPROPRIATE COLUMN TO SATISFY YOUR SYSTEM NEEDS. SAY YOU HAVE AN EXPANSION BA23 BOX WITH RD1 IN PORT 0 AND NOTHING IN PORT 1. THEN YOU SHOULD PICK COLUMN D IN TABLE 1 AND CONFIGURE THE JUMPERS ACCORDINGLY.

- NOTES: (1) PORT 0 RD SWITCH SETTING MUST BE 3.
 (2) PORT 1 RD SWITCH SETTING MUST BE 4.
 (3) RX SELECTS SHOULD BE 1-2 FOR FIRST RX50

M7513 JUMPER CONFIGURATIONS: TABLE 1 FOR CPU BOX PAGE 15

PORT 0	RD0	A	B	C	D	E
PORT 0	RD0	X	X	X	-	-
PORT 1	RD1	-	X	-	X	-
	RX50	-	-	X	-	-
INT PORT SEL	N1 N2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	N3 N4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	P1 P2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FACTORY CONFIGURATION COLUMN A OR C

- NOTE: (1) FOR CPU BOX ONLY RD0 MUST BE IN PORT 0 AND RD1 MUST BE IN PORT 1
 (2) 'O' IS A PJN AND '—' OR 'I' IS A JUMPER
 (3) NO TWO RDxx SHOULD ATTEMPT TO MAP TO THE SAME LUN (CPU OR EXPANSION)
 (4) THE M7513 WILL OCCUPY ONE DUAL OBUS SLOT IN THE BACKPLANE. IT SHOULD BE INSTALLED, IF POSSIBLE, DIRECTLY BELOW THE RQDX CONTROLLER MODULE IT WILL GO IN EITHER SLOTS A-B OR C-D

APPENDIX - A (CONT'D)

TABLE 2 EXPANSION BOX # LEPRECHAUN PAGE 16

PORT 0	RD0	A	B	C	D	E	F	G
PORT 0	RD0	X	X	X	X	X	X	X
	RD1	-	-	-	-	-	-	-
	RD2	-	-	-	-	-	-	-
	RD3	-	-	-	-	-	-	-
PORT 1	RD0	-	X	-	-	X	-	-
	RD1	-	-	-	-	-	X	-
	RD2	-	-	-	-	-	-	X
	RD3	-	-	-	-	-	-	-
	RX50	-	-	X	-	-	-	X
RDY AND WRT PROT	A1 A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	A3 A4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B1 B2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B3 B4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C1 C2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C3 C4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	D1 D2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	D3 D4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DRV SEL	E1 E2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	E3 E4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	F1 F2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	F3 F4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DRV ACK	H1 H2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	H3 H4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	K1 K2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EX PORT SEL	K3 K4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	L1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	L3 L4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EX PORT SEL	M1 M2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	M4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FACTORY CONFIGURATION COLUMN D

APPENDIX - A (CONT'D)

TABLE 2 EXPANSION BOX # LEPRECHAUN PAGE 17

PORT 0	RD0	H	I	J	K	L
PORT 0	RD0	-	-	-	-	-
	RD1	X	X	X	-	-
	RD2	-	-	-	-	-
	RD3	-	-	-	X	-
PORT 1	RD0	-	X	-	-	-
	RD1	-	-	-	X	-
	RD2	-	-	-	-	X
	RD3	-	-	X	-	-
	RX50	-	-	-	-	X
RDY AND WRT PROT	A1 A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	A3 A4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B1 B2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B3 B4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C1 C2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C3 C4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	D1 D2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	D3 D4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DRV SEL	E1 E2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	E3 E4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	F1 F2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	F3 F4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DRV ACK	H1 H2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	H3 H4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	K1 K2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EX PORT SEL	K3 K4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	L1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	L3 L4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EX PORT SEL	M1 M2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	M4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DCS M7513-0-1

REV.	ECO NUMBER	DATE

TITLE EXPANDER RD/RX

SIZE CODE	NUMBER	REV.
DCS	M7513-0-1	B

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