

46033

E-SYSTEM ADAPTER

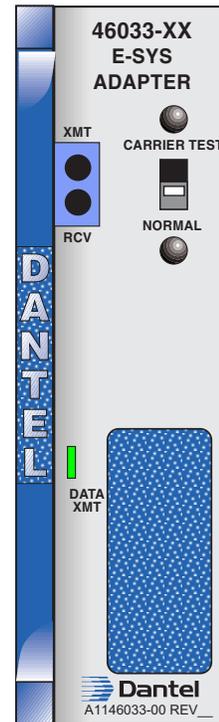


Table of Contents

Ordering Information	2
General Description	2
Circuit Description	3
Installation	5
Operation	11
46033-01 Switch Settings	12
Technical Specifications	46
Warranty	48

About this Practice:

This practice has been reissued to:

- Update **Ordering Information** section.
- Add note to **General Description** section on the difference between a -01 and a -02.

Reissued Practices: Updated and new content can be identified by a banner in the right margin.

Issue date: October 1998

UPDATED

CAUTION

- Install or remove modules from the shelf only when the power is off. If you install a module in the shelf with the power on, the internal circuitry may suffer damage and the product warranty will be void.
- Remove and install circuit boards only in a static-safe environment (use antistatic wrist straps, smocks, footwear, etc.).
- Keep circuit boards in their antistatic bags when they are not in use.
- Do not ship or store circuit boards near strong electrostatic, electromagnetic, magnetic, or radioactive fields.
- For more complete information on electrostatic discharge safety precautions, refer to Bellcore™ Technical Reference # TR-NWT-000870.

ORDERING INFORMATION

UPDATED

NOTE: This section lists the different options available for this product. To order any of the available options, contact Dantel Inside Sales through our toll-free number, **1-800-432-6835**.

OPTION NUMBER	FEATURES
B11-46033-01	E-System Adapter (Interfaces TASC, SCOTS, TCAS, NMA)
A11-46033-02	E-System Adapter (Interfaces NMA)
B11-46033-11	E-System Adapter (Interfaces SCC)

GENERAL DESCRIPTION

The 46033 E-System Adapter module provides an interface between Dantel's 460 Alarm and Control System (460 ACS) and the following alarm centers:

- NMA** Network Management and Analysis
- TASC** Telemetry Alarm Surveillance Center
- SCOTS** Surveillance and Control of Transmission Systems
- TCAS** T-Carrier Administration System
- SCC** Switching Control Center

To the alarm system, the 460 ACS appears like an E2, E2A, or E2AA alarm remote.

The 46033 is available in three options. Refer to the **Ordering Information** section.

Each 46033 has a capacity of two E-System addresses, but they must be consecutive. Each address represents 64 displays of alarm information received from two 46020 Multiple Alarm Processor (MAPs) or a total of 128 displays (four MAPs) for both addresses. Each display represents 64 alarm points.

-01, -02 Options

7680 points (the first four displays of each address are used for new and existing alarms)

NOTE: *The difference between the -01 and the -02 is in how it reports MAP failures. If a 46033-01 is configured (with switches) to poll a MAP that does not exist, a device failure **is not** reported to the Alarm Center.*

*Conversely; if a 46033-02 is configured (with switches) to poll a MAP that does not exist, a device failure **is** reported to the Alarm Center.*

Both options will report a device failure to the Alarm Center if an in-service MAP fails.

UPDATED

GENERAL DESCRIPTION

-11 Option

16 points (normally, the first subgroup of group four)

The 46033 is a plug-in PC board module that fits into any 400-type or similar equipment housing. The front panel has an indicating LED, a subassembly cutout, a carrier test switch, and jacks. The 46033 is also equipped to accept subassemblies for data communications.

CIRCUIT DESCRIPTION

The 46033 E-System Adapter functional schematic is shown in Fig. 1.

CPU (Central Processing Unit)

The major component of the 46033 is its on-board 8-bit microprocessor (CPU). The CPU controls all functions of the module except for the start-up routine and functional programming. When power is applied to the module, the CPU reads the EPROMs to set itself for the appropriate logic functions it is to perform.

The CPU translates data between the two different system protocols to interface the 46020 Multiple Alarm Processor of the 460 ACS to standard E-Systems. A secondary data bus output from the CPU drives a green LED labeled DATA XMT that lights when the unit is transmitting data to the E-System.

Data Control

For data input/output, the module has an Asynchronous Communications Interface Adapter (ACIA) that bi-directionally controls data to be handled by the CPU. When the unit receives a block of data that constitutes a command or routine request, the ACIA sequences the data to the CPU using random access memory (RAM) as a buffer to temporarily store the data. When the CPU goes idle, the ACIA activates and dumps the next data block from the RAM to the CPU for translation and output.

Logic Functions

The logic functions of the 46033 accomplish the task of data protocol translation and conversion. The Erasable/Programmable Read-Only Memory (EPROMs/Firmware) on its circuit board provide nonvolatile memory to configure the CPU at startup and program it for the appropriate logic functions. The

CIRCUIT DESCRIPTION

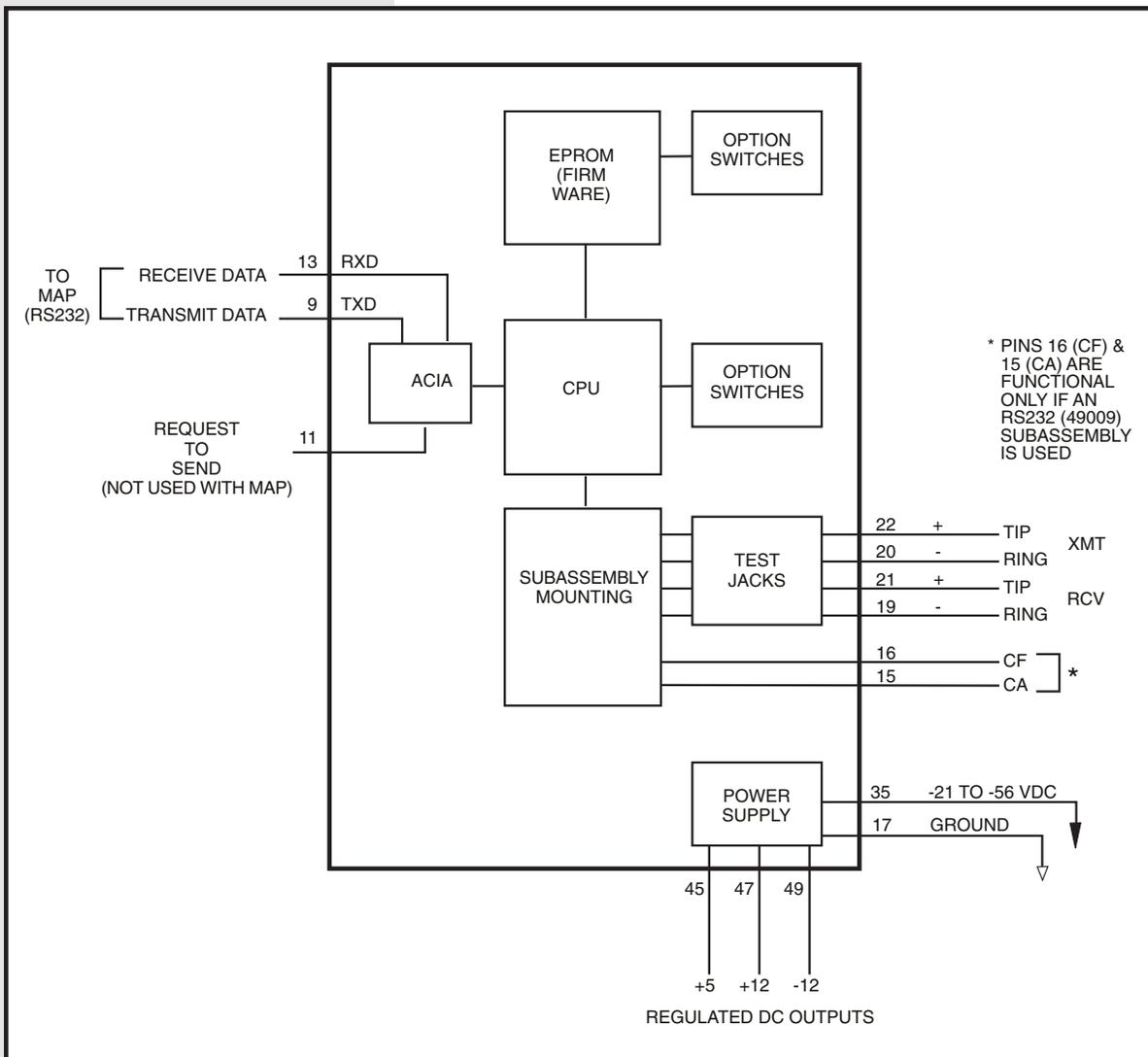
firmware on the associated Multiple Alarm Processor (MAP) controls the way the 46033 functions. You can change the way the MAP's CPU works by changing the firmware.

The option switches configure the CPU and EPROMs for different applications by either grounding or inverting the logic levels at various pins. Configuration (mode of operation) switch settings are listed in a separate publication, **46033 E-System Adapter Switch Settings**, shipped with each unit.

Power Supply

The module power supply provides regulated operating current and voltage sources for all of the 46033's circuits as well as for an optional data communications subassembly mounted on the module.

FIG. 1 - FUNCTIONAL SCHEMATIC, 46033



INSTALLATION

Installation consists of mounting the communications subassembly, setting the switches, installing the module in the shelf, and checkout.

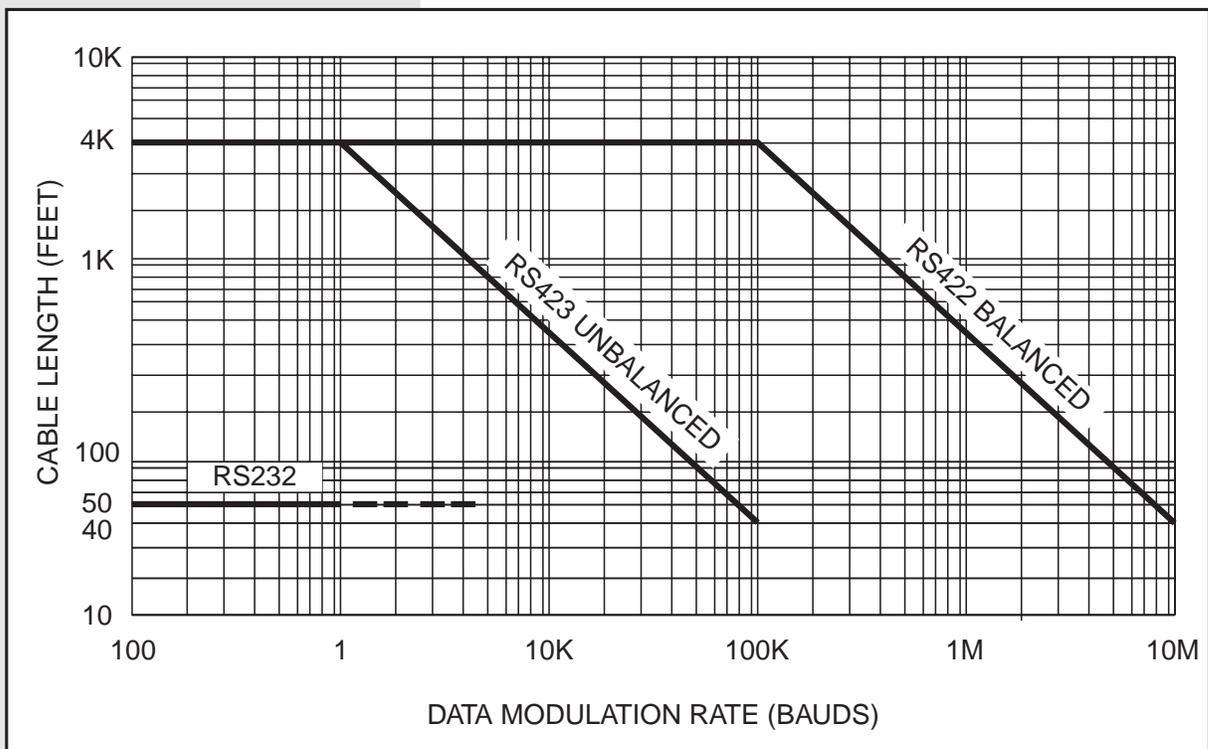
SUBASSEMBLY MOUNTING

If a subassembly is not installed already, follow the steps below. Refer to Fig. 3 for the location of the subassembly.

1. Remove the hole plug from the front panel of the module.
2. Remove the three screws from the subassembly standoffs.
3. Place the subassembly on the board.
 - a. Insert P4 into J4 and P5 into J5.
 - b. Make sure each connector pin goes straight into its socket.
 - c. Make sure the subassembly fits closely on the standoffs.
 - d. Make sure the panel is straight in the opening.
4. Replace the three screws in the standoffs.
5. If you install a 49008, 49013, or a 49029 subassembly, place the option straps as required for proper operation. Refer to the subassembly manual for strapping information.

Fig. 2 shows the maximum allowable cable lengths for some common interfaces.

FIG. 2 - RECOMMENDED CABLE LENGTHS



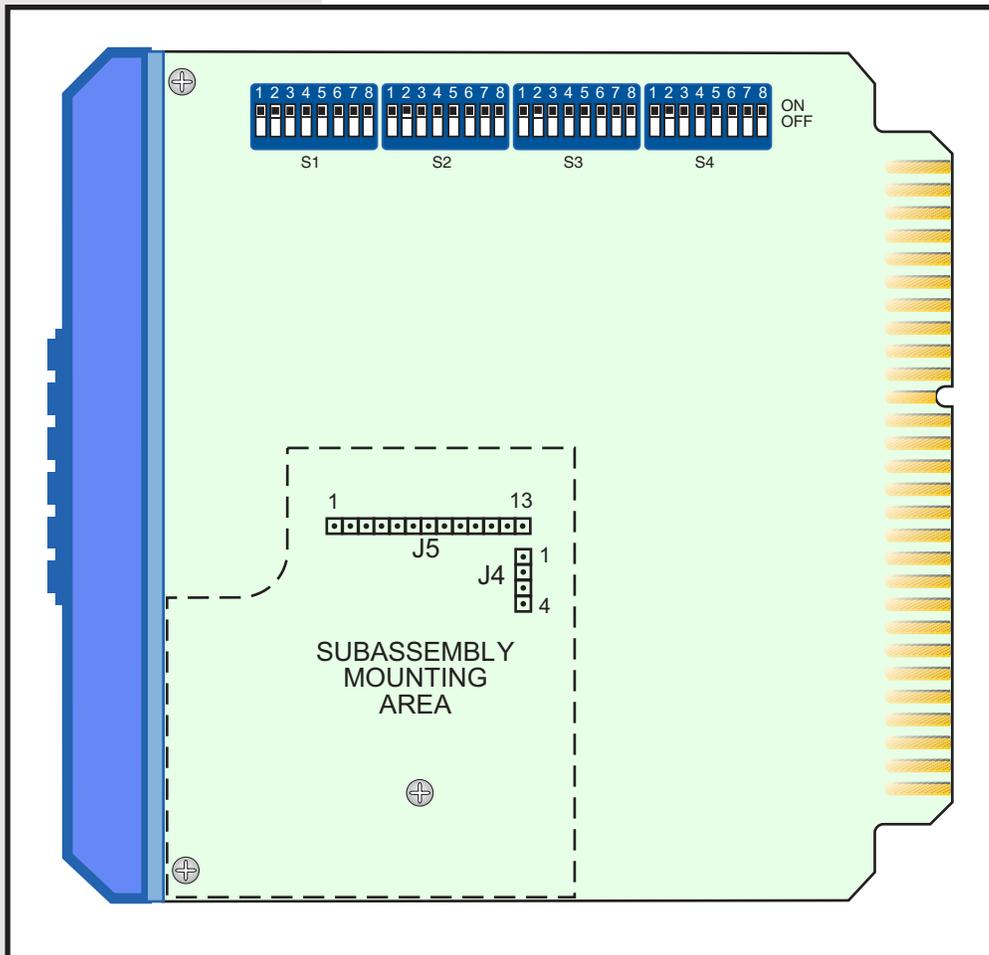
INSTALLATION

SWITCH SETTINGS

The 46033 provides four 8-lever DIP switches that define how the module operates. Set the switches before installing the module into the equipment shelf.

For specific switch settings, refer to Tables A and B and the 46033-01 or 46033-11 switch setting publications.

FIG. 3 - SWITCH LOCATIONS, 46033 E-SYSTEM ADAPTER



INSTALLATION

TABLE A - 46033 E-SYSTEM ADAPTER SWITCH SETTINGS

FUNCTION	S1-1	S1-2	S1-3	S1-4	S1-5	S1-6	S1-7	S1-8
Not Used	OFF							
MAP 4 Polling ON		ON						
MAP 4 Polling OFF		OFF						
MAP 3 Polling ON			ON					
MAP 3 Polling OFF			OFF					
MAP 2 Polling ON				ON				
MAP 2 Polling OFF				OFF				
MAP 1 Polling ON					ON			
MAP 1 Polling OFF					OFF			
E2A Format						ON		
E2 Format						OFF		
Delay Setting							ON	
-01 and -02 Options *							ON	
-11 Option							ON	
Delay Enabled							OFF	
Delay Disabled							OFF	
E-Telemetry Data Rate 600 Baud								ON
E-Telemetry Data Rate 1200 Baud								OFF
* NOTE: If a higher than normal error rate occurs, or if problems are experienced with the system, place S1-7 in the OFF position (-01 and -02 options). The -11 option has an automatic delay.								
FUNCTION	S2-1 THROUGH S2-8							
Address 1 through 256	Refer to Table B. Set for the first address (the second address is automatically the next number). NOTE: For customers using addresses starting with 0, subtract 1.							
FUNCTION	S3-1	S3-2	S3-3	S3-4	S3-5	S3-6	S3-7	S3-8
Second Address ON	ON							
Second Address OFF	OFF							
Configuration Switches (-11 only)								
SCC Mode		OFF						
DMS-10 Mode		ON	OFF	OFF	OFF	OFF	OFF	OFF
DMS-100 Mode		OFF	ON	OFF	OFF	OFF	OFF	OFF
Configuration Number for First Address (-01 only). Not used with -02 option.	Refer to 46033-01 Switch Settings section for S3-2 through S3-8.							
FUNCTION	S4-1	S4-2	S4-3	S4-4	S4-5	S4-6	S4-7	S4-8
1200 Baud DCP Polling Rate	ON							
9600 Baud DCP Polling Rate	OFF							
Configuration Number for Second Address (-01 only). Not used with -02 or -11 options.	Refer to 46033-01 Switch Settings section for S4-2 through S4-8.							

INSTALLATION

TABLE B - S2 SWITCH SETTINGS

1	27	53	79	105	131	157	183	209	235
2	28	54	80	106	132	158	184	210	236
3	29	55	81	107	133	159	185	211	237
4	30	56	82	108	134	160	186	212	238
5	31	57	83	109	135	161	187	213	239
6	32	58	84	110	136	162	188	214	240
7	33	59	85	111	137	163	189	215	241
8	34	60	86	112	138	164	190	216	242
9	35	61	87	113	139	165	191	217	243
10	36	62	88	114	140	166	192	218	244
11	37	63	89	115	141	167	193	219	245
12	38	64	90	116	142	168	194	220	246
13	39	65	91	117	143	169	195	221	247
14	40	66	92	118	144	170	196	222	248
15	41	67	93	119	145	171	197	223	249
16	42	68	94	120	146	172	198	224	250
17	43	69	95	121	147	173	199	225	251
18	44	70	96	122	148	174	200	226	252
19	45	71	97	123	149	175	201	227	253
20	46	72	98	124	150	176	202	228	254
21	47	73	99	125	151	177	203	229	255
22	48	74	100	126	152	178	204	230	256
23	49	75	101	127	153	179	205	231	
24	50	76	102	128	154	180	206	232	
25	51	77	103	129	155	181	207	233	
26	52	78	104	130	156	182	208	234	

INSTALLATION

MODULE INSTALLATION

Slide the module into the proper slot in the shelf. Normally, the 56-pin edge connector is prewired at the factory. If you are going to wire the connector, refer to Fig. 4 for module PC connector pin wiring assignments.

CHECKOUT

To check the 46033 for proper operation, verify that the front panel LED labeled DATA XMT flashes when data is transmitted from the 46033 to the E-System.

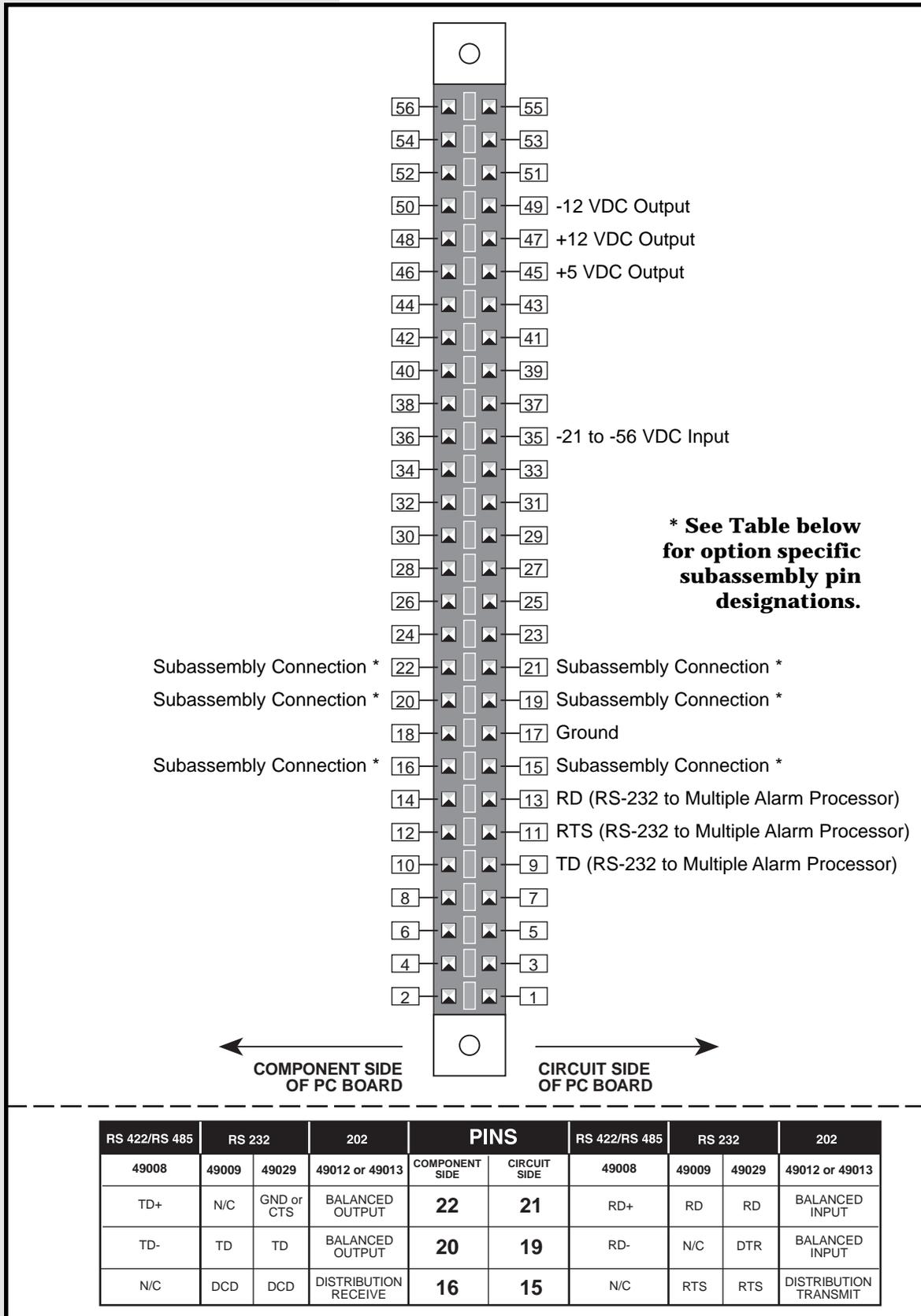
You can place the front panel switch in the Carrier Test position to verify the presence of carrier signal between the 46033 and the E-system and for setting the level of a subassembly modem. At all other times, the switch should be in the Normal position. If data is being exchanged between the alarm system components and the E-System, the 46033 is functioning normally.

You may also check out the 46033 with a 00458/00459 Test Set. Front panel jacks on the 46033 are available for connecting a test set. The test set is used with a personal computer and software to emulate an E-System Master to an alarm system. This allows you to completely check out the adapter before connecting it to a system that is in operation.

CAUTION: *The 46033 satisfies the TASC center with no other modules (downline) involved, but will not report alarms. Always verify proper alarm point reporting after restarting the system from power-down.*

INSTALLATION

FIG. 4 - PIN DESIGNATIONS, 46033 E-SYSTEM ADAPTER



OPERATION

Operation of the 46033 is determined by the MAP firmware. Refer to the appropriate MAP firmware manual for further information on operation.

It is possible to plug the E-system Adapter into a shelf, but forget to plug in one of the MAPs. When the -01 option of the E-System Adapter tries to establish communications with the MAP and does not get a response, it does not report anything. When the -02 option of the E-System Adapter tries to establish communications with MAP and does not get response, it sets alarm point 64 in all 32 displays.

NOTE: *Alarm point 64 is reserved on all displays for TASC administrative functions (Bell Pub. 49001). Alarm point 64 is set by the E-System Adapter and forwarded to the TASC center to indicate communications failures between the MAP and the alarm-originating equipment (MATs and serial equipment).*

The point-64 communications alarm function is generated in the E-System Adapter, except for serial displays that originate in a MAP, which then provides this function for those displays.

If a configuration number is not provided by a NMA engineer, use configuration number 32 for one or both addresses.

46033-01 SWITCH SETTINGS

FIRST AND SECOND ADDRESS CONFIGURATION NUMBERS

NOTE: (See *Configuration Descriptions*, in this section, for Descriptions of each Configuration)

First Address	S3-8	S3-7	S3-6	S3-5	S3-4	S3-3	S3-2
Second Address	S4-8	S4-7	S4-6	S4-5	S4-4	S4-3	S4-2
Configuration No.							
00	ON						
01	OFF	ON	ON	ON	ON	ON	ON
02	ON	OFF	ON	ON	ON	ON	ON
03	OFF	OFF	ON	ON	ON	ON	ON
04	ON	ON	OFF	ON	ON	ON	ON
05	OFF	ON	OFF	ON	ON	ON	ON
06	ON	OFF	OFF	ON	ON	ON	ON
07	OFF	OFF	OFF	ON	ON	ON	ON
08	ON	ON	ON	OFF	ON	ON	ON
09	OFF	ON	ON	OFF	ON	ON	ON
10	ON	OFF	ON	OFF	ON	ON	ON
11	OFF	OFF	ON	OFF	ON	ON	ON
12	ON	ON	OFF	OFF	ON	ON	ON
13	OFF	ON	OFF	OFF	ON	ON	ON
14	ON	OFF	OFF	OFF	ON	ON	ON
15	OFF	OFF	OFF	OFF	ON	ON	ON
16	ON	ON	ON	ON	OFF	ON	ON
17	OFF	ON	ON	ON	OFF	ON	ON
18	ON	OFF	ON	ON	OFF	ON	ON
19	OFF	OFF	ON	ON	OFF	ON	ON
20	ON	ON	OFF	ON	OFF	ON	ON
21	OFF	ON	OFF	ON	OFF	ON	ON
22	ON	OFF	OFF	ON	OFF	ON	ON
23	OFF	OFF	OFF	ON	OFF	ON	ON
24	ON	ON	ON	OFF	OFF	ON	ON
25	OFF	ON	ON	OFF	OFF	ON	ON
26	ON	OFF	ON	OFF	OFF	ON	ON
27	OFF	OFF	ON	OFF	OFF	ON	ON
28	ON	ON	OFF	OFF	OFF	ON	ON
29	OFF	ON	OFF	OFF	OFF	ON	ON
30	ON	OFF	OFF	OFF	OFF	ON	ON
31	OFF	OFF	OFF	OFF	OFF	ON	ON

46033-01 SWITCH SETTINGS

First Address	S3-8	S3-7	S3-6	S3-5	S3-4	S3-3	S3-2
Second Address	S4-8	S4-7	S4-6	S4-5	S4-4	S4-3	S4-2
Configuration No.							
32	ON	ON	ON	ON	ON	OFF	ON
33	OFF	ON	ON	ON	ON	OFF	ON
34	ON	OFF	ON	ON	ON	OFF	ON
35	OFF	OFF	ON	ON	ON	OFF	ON
36	ON	ON	OFF	ON	ON	OFF	ON
37	OFF	ON	OFF	ON	ON	OFF	ON
38	ON	OFF	OFF	ON	ON	OFF	ON
39	OFF	OFF	OFF	ON	ON	OFF	ON
40	ON	ON	ON	OFF	ON	OFF	ON
41	OFF	ON	ON	OFF	ON	OFF	ON
42	ON	OFF	ON	OFF	ON	OFF	ON
43	OFF	OFF	ON	OFF	ON	OFF	ON
44	ON	ON	OFF	OFF	ON	OFF	ON
45	OFF	ON	OFF	OFF	ON	OFF	ON
46	ON	OFF	OFF	OFF	ON	OFF	ON
47	OFF	OFF	OFF	OFF	ON	OFF	ON
48	ON	ON	ON	ON	OFF	OFF	ON
49	OFF	ON	ON	ON	OFF	OFF	ON
50	ON	OFF	ON	ON	OFF	OFF	ON
51	OFF	OFF	ON	ON	OFF	OFF	ON
52	ON	ON	OFF	ON	OFF	OFF	ON
53	OFF	ON	OFF	ON	OFF	OFF	ON
54	ON	OFF	OFF	ON	OFF	OFF	ON
55	OFF	OFF	OFF	ON	OFF	OFF	ON
56	ON	ON	ON	OFF	OFF	OFF	ON
57	OFF	ON	ON	OFF	OFF	OFF	ON
58	ON	OFF	ON	OFF	OFF	OFF	ON
59	OFF	OFF	ON	OFF	OFF	OFF	ON
60	ON	ON	OFF	OFF	OFF	OFF	ON
61	OFF	ON	OFF	OFF	OFF	OFF	ON
62	ON	OFF	OFF	OFF	OFF	OFF	ON
63	OFF	OFF	OFF	OFF	OFF	OFF	ON
64	ON	ON	ON	ON	ON	ON	OFF
65	OFF	ON	ON	ON	ON	ON	OFF
66	ON	OFF	ON	ON	ON	ON	OFF
67	OFF	OFF	ON	ON	ON	ON	OFF
68	ON	ON	OFF	ON	ON	ON	OFF
69	OFF	ON	OFF	ON	ON	ON	OFF

46033-01 SWITCH SETTINGS

First Address	S3-8	S3-7	S3-6	S3-5	S3-4	S3-3	S3-2
Second Address	S4-8	S4-7	S4-6	S4-5	S4-4	S4-3	S4-2
Configuration No.							
70	ON	OFF	OFF	ON	ON	ON	OFF
71	OFF	OFF	OFF	ON	ON	ON	OFF
72	ON	ON	ON	OFF	ON	ON	OFF
73	OFF	ON	ON	OFF	ON	ON	OFF
74	ON	OFF	ON	OFF	ON	ON	OFF
75	OFF	OFF	ON	OFF	ON	ON	OFF
76	ON	ON	OFF	OFF	ON	ON	OFF
77	OFF	ON	OFF	OFF	ON	ON	OFF
78	ON	OFF	OFF	OFF	ON	ON	OFF
79	OFF	OFF	OFF	OFF	ON	ON	OFF
80	ON	ON	ON	ON	OFF	ON	OFF
81	OFF	ON	ON	ON	OFF	ON	OFF
82	ON	OFF	ON	ON	OFF	ON	OFF
83	OFF	OFF	ON	ON	OFF	ON	OFF
84	ON	ON	OFF	ON	OFF	ON	OFF
85	OFF	ON	OFF	ON	OFF	ON	OFF
86	ON	OFF	OFF	ON	OFF	ON	OFF
87	OFF	OFF	OFF	ON	OFF	ON	OFF
88	ON	ON	ON	OFF	OFF	ON	OFF
89	OFF	ON	ON	OFF	OFF	ON	OFF
90	ON	OFF	ON	OFF	OFF	ON	OFF
91	OFF	OFF	ON	OFF	OFF	ON	OFF
92	ON	ON	OFF	OFF	OFF	ON	OFF
93	OFF	ON	OFF	OFF	OFF	ON	OFF
94	ON	OFF	OFF	OFF	OFF	ON	OFF
95	OFF	OFF	OFF	OFF	OFF	ON	OFF
96	ON	ON	ON	ON	ON	OFF	OFF
97	OFF	ON	ON	ON	ON	OFF	OFF
98	ON	OFF	ON	ON	ON	OFF	OFF
99	OFF	OFF	ON	ON	ON	OFF	OFF

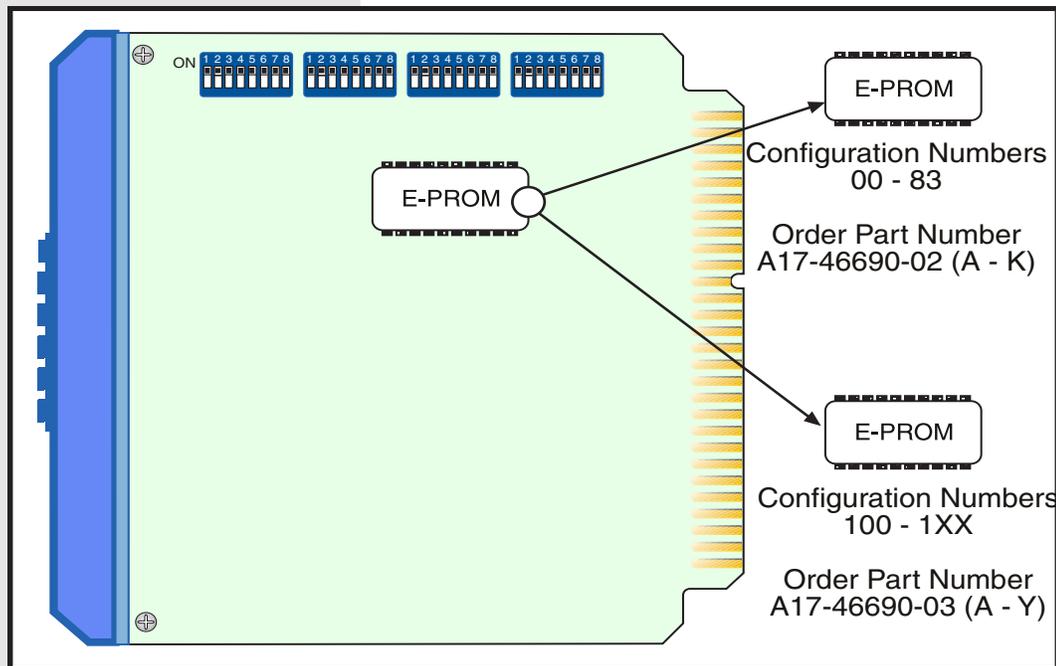
46033-01 SWITCH SETTINGS

CONFIGURATION DESCRIPTIONS

- ◆ Mask ROM A17-46690-02 includes configurations 00 through 83.
- ◆ Mask ROM A17-46690-03 includes configurations 100-1XX. (Configurations 84-99 are skipped.)
- ◆ When using Table A for -03, add 100 to the configuration numbers.

Refer to Fig. 5 for E-PROM location.

FIG. 5 - E-PROM LOCATION, 46033



46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02

REV B

CONF 00

1-8	L121,L121,L121,L121,L121,L121,L121,L121
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L120,L120,L120,L120,L120,L120,L120
25-32	L120,L120,L120,L120,L120,L120,L120,L120
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L120,L120,L120,L120,L120,L120

CONF 01

1-8	L118,L118,L118,L118,L118,L118,L118,L118
9-16	L118,L118,L118,L118,L118,L118,L118,L118
17-24	L118,L118,L118,L118,L118,L118,L118,L118
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L118,L118,L118,L118,L118,L118,L118,L118
41-48	L118,L118,L118,L118,L118,L118,L118,L118
49-56	L118,L118,L118,L118,L118,L118,L118,L118
57-64	L118,L118,L118,L118,L118,L118,L118,L118

CONF 02

1-8	L122,L122,L122,L122,L122,L122,L122,L122
9-16	L122,L122,L122,L122,L122,L122,L122,L122
17-24	L122,L122,L122,L122,L122,L122,L122,L122
25-32	L122,L122,L122,L122,L122,L122,L122,L122
33-40	L122,L122,L122,L122,L122,L122,L122,L122
41-48	L122,L122,L122,L122,L122,L122,L122,L122
49-56	L122,L122,L122,L122,L122,L122,L122,L122
57-64	L122,L122,L122,L122,L122,L122,L122,L122

CONF 03

1-8	L141,L141,L141,L141,L141,L141,L141,L141
9-16	L141,L141,L141,L141,L141,L141,L141,L141
17-24	L141,L141,L141,L141,L141,L141,L141,L141
25-32	L141,L141,L141,L141,L141,L141,L141,L141
33-40	L141,L141,L141,L141,L141,L141,L141,L141
41-48	L141,L141,L141,L141,L141,L141,L141,L141
49-56	L141,L141,L141,L141,L141,L141,L141,L141
57-64	L141,L141,L141,L141,L141,L141,L141,L141

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 04

1-8	L134,L134,L134,L134,L134,L134,L134,L134
9-16	L134,L134,L134,L134,L134,L134,L134,L134
17-24	L134,L134,L134,L134,L134,L134,L134,L134
25-32	L134,L134,L134,L134,L134,L134,L134,L134
33-40	L134,L134,L134,L134,L134,L134,L134,L134
41-48	L134,L134,L134,L134,L134,L134,L134,L134
49-56	L134,L134,L134,L134,L134,L134,L134,L134
57-64	L134,L134,L134,L134,L134,L134,L134,L134

CONF 05

1-8	L120,L120,L138,L138,L127,L122,L127,L138
9-16	L127,L138,L128,L120,L139,L141,L127,L127
17-24	L127,L127,L127,L127,L127,L127,L127,L127
25-32	L127,L127,L127,L127,L127,L127,L127,L127
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 06

1-8	L127,L127,L127,L127,L127,L127,L127,L127
9-16	L127,L127,L127,L127,L127,L127,L127,L127
17-24	L127,L127,L127,L127,L127,L127,L127,L127
25-32	L127,L127,L127,L127,L127,L127,L127,L127
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 07

1-8	L127,L127,L127,L127,L128,L128,L128,L123
9-16	L118,L118,L118,L118,L118,L118,L118,L118
17-24	L118,L118,L118,L118,L118,L138,L138,L138
25-32	L121,L121,L121,L120,L120,L120,L137,L122
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 08

1-8	L127,L127,L127,L127,L122,L122,L122,L122
9-16	L122,L122,L122,L122,L122,L122,L122,L122
17-24	L122,L122,L122,L122,L122,L122,L122,L122
25-32	L122,L122,L122,L122,L122,L122,L122,L122
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 09

1-8	L127,L127,L127,L127,L118,L118,L118,L118
9-16	L118,L118,L118,L118,L118,L118,L118,L118
17-24	L118,L118,L118,L118,L118,L118,L118,L118
25-32	L122,L122,L122,L122,L122,L122,L122,L122
33-40	L118,L118,L118,L118,L118,L118,L118,L128
41-48	L128,L128,L128,L128,L128,L128,L128,L128
49-56	L128,L128,L128,L128,L128,L128,L128,L128
57-64	L122,L122,L122,L122,L122,L122,L122,L122

CONF 10

1-8	L127,L127,L127,L127,L118,L118,L118,L118
9-16	L118,L118,L128,L128,L128,L128,L128,L118
17-24	L118,L118,L118,L118,L128,L128,L128,L128
25-32	L122,L122,L122,L122,L122,L122,L122,L122
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 11

1-8	L127,L127,L127,L127,L121,L121,L121,L121
9-16	L121,L121,L121,L121,L120,L120,L120,L120
17-24	L120,L120,L120,L120,L120,L120,L120,L120
25-32	L137,L137,L122,L122,L034,L122,L122,L122
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L121,L121,L121,L121,L121,L121
57-64	L121,L121,L121,L121,L121,L121,L137,L137

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 12

1-8	L127,L127,L127,L127,L120,L120,L120,L120
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L137,L137,L122,L122,L121,L121,L121,L121
25-32	L121,L121,L121,L121,L121,L121,L121,L121
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L121,L121,L121,L121,L121,L121
57-64	L121,L121,L121,L121,L121,L121,L137,L137

CONF 13

1-8	L127,L127,L127,L127,L034,L122,L122,L122
9-16	L121,L121,L121,L137,L122,L122,L122,L121
17-24	L121,L121,L121,L121,L121,L121,L137,L121
25-32	L121,L121,L121,L121,L121,L121,L121,L137
33-40	L120,L120,L120,L121,L120,L120,L120,L121
41-48	L120,L120,L120,L137,L120,L120,L120,L121
49-56	L120,L120,L120,L121,L120,L120,L120,L137
57-64	L120,L120,L120,L137,L120,L120,L120,L122

CONF 14

1-8	L127,L127,L127,L127,L137,L121,L121,L121
9-16	L120,L120,L122,L122,L122,L122,L120,L120
17-24	L118,L118,L118,L118,L118,L118,L118,L118
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L137,L121,L121,L121,L120,L120,L120,L120
41-48	L120,L120,L122,L122,L122,L122,L118,L118
49-56	L118,L118,L118,L118,L118,L118,L118,L118
57-64	L118,L118,L118,L118,L118,L118,L118,L118

CONF 15

1-8	L127,L127,L127,L127,L137,L121,L121,L121
9-16	L121,L121,L121,L120,L137,L120,L120,L120
17-24	L121,L120,L120,L120,L121,L120,L120,L120
25-32	L122,L122,L122,L122,L120,L120,L118,L118
33-40	L137,L121,L121,L120,L137,L121,L121,L120
41-48	L120,L137,L121,L121,L120,L120,L137,L121
49-56	L121,L120,L137,L121,L121,L120,L137,L121
57-64	L121,L120,L120,L120,L118,L118,L118,L118

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 16

1-8	L127,L127,L127,L127,L137,L121,L121,L120
9-16	L120,L137,L121,L121,L120,L120,L120,L137
17-24	L121,L121,L120,L120,L120,L137,L121,L121
25-32	L120,L120,L120,L120,L118,L118,L118,L118
33-40	L137,L121,L121,L121,L120,L120,L120,L120
41-48	L122,L122,L122,L122,L137,L121,L121,L120
49-56	L120,L120,L122,L122,L122,L122,L120,L120
57-64	L137,L121,L121,L121,L120,L120,L120,L120

CONF 17

1-8	L127,L127,L127,L127,L137,L121,L121,L121
9-16	L120,L120,L120,L118,L137,L121,L121,L121
17-24	L120,L120,L121,L121,L120,L120,L120,L120
25-32	L122,L122,L122,L122,L118,L118,L118,L118
33-40	L122,L122,L122,L122,L137,L121,L121,L121
41-48	L121,L121,L121,L120,L137,L121,L121,L121
49-56	L121,L121,L121,L120,L137,L120,L120,L120
57-64	L121,L120,L120,L120,L118,L118,L118,L118

CONF 18

1-8	L127,L127,L127,L127,L138,L138,L138,L138
9-16	L138,L138,L138,L138,L138,L138,L138,L138
17-24	L138,L138,L138,L138,L138,L138,L138,L138
25-32	L138,L138,L138,L138,L138,L138,L138,L138
33-40	L138,L138,L138,L138,L138,L138,L138,L138
41-48	L138,L138,L138,L138,L138,L138,L138,L138
49-56	L138,L138,L138,L138,L138,L138,L138,L138
57-64	L138,L138,L138,L138,L138,L138,L138,L138

CONF 19

1-8	L127,L127,L127,L127,L132,L132,L132,L132
9-16	L132,L132,L132,L132,L132,L132,L132,L132
17-24	L132,L132,L132,L132,L132,L132,L132,L132
25-32	L132,L132,L132,L132,L132,L132,L132,L132
33-40	L132,L132,L132,L132,L132,L132,L132,L132
41-48	L132,L132,L132,L132,L132,L132,L132,L132
49-56	L132,L132,L132,L132,L132,L132,L132,L132
57-64	L132,L132,L132,L132,L132,L132,L132,L132

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 20

1-8	L127,L127,L127,L127,L122,L121,L121,L121
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L120,L120,L120,L120,L120,L120,L137
25-32	L137,L137,L137,L121,L121,L121,L121,L127
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 21

1-8	L127,L127,L127,L127,L137,L121,L121,L121
9-16	L121,L121,L121,L120,L137,L120,L120,L120
17-24	L121,L120,L120,L120,L121,L120,L120,L120
25-32	L122,L122,L122,L122,L120,L120,L118,L118
33-40	L137,L121,L121,L120,L118,L137,L121,L121
41-48	L120,L120,L118,L137,L121,L121,L120,L120
49-56	L118,L137,L121,L121,L120,L120,L118,L137
57-64	L121,L121,L120,L118,L118,L118,L118,L118

CONF 22

1-8	L127,L127,L127,L127,L137,L121,L121,L120
9-16	L118,L137,L121,L121,L120,L120,L120,L118
17-24	L137,L121,L121,L120,L120,L120,L118,L137
25-32	L121,L121,L120,L118,L118,L118,L118,L118
33-40	L137,L121,L121,L121,L120,L120,L120,L120
41-48	L122,L122,L122,L122,L118,L118,L137,L121
49-56	L121,L120,L120,L120,L122,L122,L122,L122
57-64	L120,L120,L118,L118,L118,L118,L118,L118

CONF 23

1-8	L127,L127,L127,L127,L132,L132,L132,L132
9-16	L132,L132,L132,L132,L132,L132,L132,L132
17-24	L132,L132,L132,L132,L132,L132,L132,L132
25-32	L132,L132,L132,L132,L122,L132,L122,L132
33-40	L132,L132,L132,L132,L132,L132,L132,L132
41-48	L132,L132,L132,L132,L132,L132,L132,L132
49-56	L132,L132,L132,L132,L132,L132,L132,L132
57-64	L132,L132,L132,L132,L132,L132,L132,L132

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 24

1-8	L127,L127,L127,L127,L132,L132,L132,L132
9-16	L132,L132,L132,L132,L132,L132,L132,L132
17-24	L132,L132,L132,L132,L132,L132,L132,L132
25-32	L132,L132,L132,L132,L122,L132,L122,L132
33-40	L122,L132,L122,L132,L122,L132,L122,L132
41-48	L122,L132,L122,L132,L122,L132,L122,L132
49-56	L122,L132,L122,L132,L122,L132,L122,L132
57-64	L122,L132,L122,L132,L122,L132,L122,L132

CONF 25

1-8	L127,L127,L127,L127,L132,L132,L132,L132
9-16	L132,L132,L132,L132,L132,L132,L132,L132
17-24	L132,L132,L132,L132,L132,L132,L132,L132
25-32	L132,L132,L132,L132,L118,L118,L118,L118
33-40	L132,L132,L132,L132,L132,L132,L132,L132
41-48	L132,L132,L132,L132,L132,L132,L132,L132
49-56	L132,L132,L132,L132,L132,L132,L132,L132
57-64	L122,L132,L122,L132,L122,L132,L122,L132

CONF 26

1-8	L127,L127,L127,L127,L132,L132,L132,L132
9-16	L132,L132,L132,L132,L132,L132,L132,L132
17-24	L132,L132,L132,L132,L132,L132,L132,L132
25-32	L132,L132,L132,L132,L127,L127,L122,L132
33-40	L122,L132,L122,L132,L122,L132,L122,L132
41-48	L122,L132,L122,L132,L122,L132,L122,L132
49-56	L122,L132,L122,L132,L122,L132,L122,L132
57-64	L122,L132,L122,L132,L122,L132,L122,L132

CONF 27

1-8	L127,L127,L127,L127,L122,L127,L122,L127
9-16	L127,L127,L127,L127,L127,L127,L127,L127
17-24	L127,L127,L127,L127,L127,L127,L127,L127
25-32	L127,L127,L127,L127,L120,L120,L120,L120
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 28

1-8	L127,L127,L127,L127,L125,L125,L125,L125
9-16	L125,L125,L125,L125,L125,L125,L125,L125
17-24	L125,L125,L125,L125,L125,L125,L125,L125
25-32	L125,L125,L125,L125,L125,L125,L125,L125
33-40	L125,L125,L125,L125,L125,L125,L125,L125
41-48	L125,L125,L125,L125,L125,L125,L125,L125
49-56	L125,L125,L125,L125,L125,L125,L125,L125
57-64	L125,L125,L125,L125,L125,L125,L125,L125

CONF 29

1-8	L127,L127,L127,L127,L123,L123,L123,L123
9-16	L123,L123,L123,L123,L123,L123,L123,L123
17-24	L123,L123,L123,L123,L127,L127,L127,L127
25-32	L127,L127,L127,L127,L127,L127,L127,L127
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L127,L127,L127,L127,L127,L127

CONF 30

1-8	L127,L127,L127,L127,L120,L120,L120,L120
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L120,L120,L120,L128,L128,L128,L128
25-32	L128,L128,L128,L128,L127,L127,L127,L127
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L121,L121,L121,L121,L121,L121,L121,L121
49-56	L137,L137,L137,L137,L137,L137,L137,L137
57-64	L137,L137,L137,L137,L137,L137,L137,L137

CONF 31

1-8	L127,L127,L127,L127,L122,L128,L127,L127
9-16	L138,L118,L128,L128,L128,L128,L128,L128
17-24	L128,L128,L128,L118,L118,L118,L118,L118
25-32	L118,L118,L118,L122,L122,L122,L122,L122
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 (CONTINUED)

REV A-K

CONF 32

1-8	L127,L127,L127,L127,L122,L128,L127,L127
9-16	L138,L118,L128,L128,L128,L128,L128,L128
17-24	L128,L128,L128,L118,L118,L118,L118,L118
25-32	L118,L118,L118,L122,L122,L122,L122,L122
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

REV L & M

CONF 32

1-8	L142,L142,L142,L142,L142,L142,L142,L142
9-16	L142,L142,L142,L142,L142,L142,L142,L142
17-24	L142,L142,L142,L142,L142,L142,L142,L142
25-32	L142,L142,L142,L142,L142,L142,L142,L142
33-40	L142,L142,L142,L142,L142,L142,L142,L142
41-48	L142,L142,L142,L142,L142,L142,L142,L142
49-56	L142,L142,L142,L142,L142,L142,L142,L142
57-64	L142,L142,L142,L142,L142,L142,L142,L142

REV B

CONF 33

1-8	L127,L127,L127,L127,L034,L122,L122,L122
9-16	L121,L121,L121,L137,L122,L122,L122,L121
17-24	L121,L121,L121,L121,L121,L121,L137,L121
25-32	L121,L121,L121,L121,L121,L121,L121,L137
33-40	L120,L120,L120,L121,L120,L120,L120,L121
41-48	L120,L120,L120,L137,L120,L120,L120,L121
49-56	L120,L120,L120,L121,L120,L120,L120,L137
57-64	L120,L120,L120,L137,L120,L120,L120,L122

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 34

1-8	L127,L127,L127,L127,L122,L122,L122,L122
9-16	L127,L127,L127,L127,L118,L118,L118,L118
17-24	L118,L118,L118,L118,L118,L118,L118,L118
25-32	L118,L118,L118,L118,L120,L120,L120,L120
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 35

1-8	L127,L127,L127,L127,L118,L123,L118,L123
9-16	L118,L123,L118,L123,L118,L128,L118,L128
17-24	L118,L128,L118,L128,L118,L128,L118,L128
25-32	L118,L128,L118,L128,L118,L128,L118,L128
33-40	L128,L128,L128,L128,L128,L128,L128,L128
41-48	L128,L128,L128,L128,L128,L128,L128,L128
49-56	L128,L128,L128,L128,L128,L128,L128,L128
57-64	L128,L128,L128,L128,L128,L128,L128,L128

CONF 36

1-8	L127,L127,L127,L127,L128,L128,L128,L128
9-16	L128,L128,L128,L128,L128,L128,L128,L128
17-24	L128,L128,L128,L128,L128,L128,L128,L128
25-32	L128,L128,L128,L128,L128,L128,L128,L128
33-40	L118,L123,L123,L118,L118,L123,L118,L123
41-48	L123,L118,L118,L123,L118,L123,L123,L118
49-56	L123,L118,L118,L123,L123,L118,L118,L123
57-64	L118,L123,L118,L123,L118,L123,L118,L123

CONF 37

1-8	L127,L127,L127,L127,L121,L121,L121,L121
9-16	L121,L121,L121,L137,L121,L121,L121,L121
17-24	L121,L121,L121,L121,L121,L121,L137,L121
25-32	L121,L121,L121,L121,L121,L121,L121,L137
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L120,L120,L120,L120,L120,L120

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 38

1-8	L127,L127,L127,L127,L118,L118,L118,L118
9-16	L128,L128,L128,L128,L128,L128,L128,L128
17-24	L128,L128,L128,L128,L128,L128,L128,L128
25-32	L122,L122,L122,L122,L122,L122,L122,L122
33-40	L128,L128,L128,L128,L128,L128,L128,L128
41-48	L128,L128,L128,L128,L128,L128,L128,L128
49-56	L128,L128,L128,L128,L128,L128,L128,L128
57-64	L128,L128,L128,L128,L128,L128,L128,L128

CONF 39

1-8	L127,L127,L127,L127,L122,L121,L121,L121
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L120,L120,L120,L120,L120,L120,L137
25-32	L137,L137,L137,L121,L121,L121,L121,L127
33-40	L122,L121,L121,L121,L120,L120,L120,L122
41-48	L122,L122,L122,L122,L122,L122,L122,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L128
57-64	L128,L128,L128,L121,L121,L121,L121,L122

CONF 40

1-8	L127,L127,L127,L127,L133,L133,L133,L133
9-16	L133,L133,L133,L133,L118,L118,L118,L118
17-24	L133,L133,L133,L133,L133,L123,L123,L123
25-32	L128,L128,L128,L128,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 41

1-8	L127,L127,L127,L127,L123,L123,L123,L123
9-16	L123,L123,L123,L123,L123,L123,L123,L123
17-24	L123,L123,L123,L123,L123,L123,L123,L123
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L123,L123,L123,L123
41-48	L123,L123,L123,L123,L123,L123,L123,L123
49-56	L123,L123,L123,L123,L123,L123,L123,L123
57-64	L118,L118,L118,L118,L118,L118,L118,L118

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 42

1-8	L127,L127,L127,L127,L118,L123,L123,L123
9-16	L123,L123,L123,L123,L123,L123,L123,L123
17-24	L123,L123,L123,L123,L123,L123,L123,L123
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L118,L123,L123,L123
41-48	L123,L123,L123,L123,L123,L123,L123,L123
49-56	L123,L123,L123,L123,L123,L123,L123,L123
57-64	L118,L118,L118,L118,L118,L118,L118,L118

CONF 43

1-8	L118,L118,L118,L118,L118,L118,L118,L118
9-16	L118,L118,L118,L118,L118,L118,L118,L118
17-24	L118,L118,L118,L118,L118,L118,L118,L118
25-32	L137,L118,L118,L118,L118,L118,L118,L118
33-40	L118,L118,L118,L118,L118,L118,L118,L118
41-48	L118,L118,L118,L118,L118,L118,L118,L118
49-56	L118,L118,L118,L118,L118,L118,L118,L118
57-64	L118,L118,L118,L118,L118,L118,L118,L118

CONF 44

1-8	L123,L123,L123,L123,L123,L123,L123,L123
9-16	L123,L123,L123,L123,L128,L123,L123,L123
17-24	L123,L123,L123,L123,L128,L118,L118,L118
25-32	L118,L118,L118,L128,L123,L123,L123,L123
33-40	L123,L123,L123,L123,L123,L123,L123,L128
41-48	L123,L123,L123,L123,L123,L123,L123,L128
49-56	L118,L118,L118,L118,L118,L118,L128,L123
57-64	L123,L123,L123,L123,L123,L123,L123,L123

CONF 45

1-8	L118,L118,L118,L118,L118,L118,L133,L133
9-16	L133,L133,L133,L133,L138,L133,L133,L133
17-24	L128,L133,L128,L133,L123,L123,L123,L123
25-32	L123,L123,L123,L123,L118,L118,L118,L118
33-40	L118,L118,L118,L118,L118,L118,L118,L118
41-48	L118,L118,L118,L118,L118,L118,L118,L118
49-56	L118,L118,L118,L118,L118,L118,L118,L118
57-64	L118,L118,L118,L118,L118,L118,L118,L118

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 46

1-8	L127,L127,L127,L127,L120,L121,L121,L121
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L120,L120,L120,L120,L120,L120,L137
25-32	L137,L137,L137,L128,L128,L128,L128,L127
33-40	L137,L120,L120,L120,L120,L120,L120,L122
41-48	L122,L122,L122,L122,L122,L122,L122,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L120,L122,L122,L122,L122,L120

CONF 47

1-8	L127,L127,L127,L127,L118,L118,L120,L120
9-16	L118,L118,L118,L120,L118,L120,L118,L118
17-24	L120,L118,L120,L118,L118,L120,L118,L118
25-32	L120,L120,L118,L118,L120,L118,L121,L121
33-40	L118,L118,L120,L118,L118,L118,L118,L120
41-48	L118,L118,L118,L120,L118,L118,L118,L120
49-56	L123,L123,L133,L133,L133,L133,L133,L133
57-64	L121,L121,L118,L118,L120,L120,L118,L118

CONF 48

1-8	L127,L127,L127,L127,L123,L118,L118,L120
9-16	L120,L121,L118,L121,L120,L120,L118,L118
17-24	L120,L120,L118,L118,L121,L118,L118,L118
25-32	L118,L120,L121,L121,L120,L120,L118,L118
33-40	L137,L118,L118,L118,L118,L118,L118,L118
41-48	L133,L133,L133,L133,L133,L133,L133,L133
49-56	L133,L133,L133,L133,L133,L133,L133,L133
57-64	L121,L121,L120,L120,L120,L120,L133,L133

CONF 49

1-8	L127,L127,L127,L127,L118,L118,L118,L118
9-16	L121,L121,L121,L121,L121,L121,L121,L121
17-24	L121,L121,L121,L121,L121,L121,L121,L121
25-32	L133,L133,L133,L133,L133,L133,L133,L133
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L120,L120,L120,L120,L120,L120

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 50

1-8	L127,L127,L127,L127,L118,L118,L118,L118
9-16	L118,L118,L118,L118,L118,L118,L118,L118
17-24	L120,L118,L118,L118,L133,L133,L121,L121
25-32	L121,L121,L133,L133,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L120,L120,L120,L120,L120,L120,L118,L118
57-64	L120,L120,L120,L120,L120,L120,L120,L120

CONF 51

1-8	L127,L127,L127,L127,L133,L133,L133,L130
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L133
25-32	L133,L120,L121,L121,L121,L121,L121,L121
33-40	L121,L121,L121,L121,L118,L118,L133,L133
41-48	L118,L118,L118,L118,L120,L120,L120,L133
49-56	L133,L133,L133,L133,L118,L133,L133,L133
57-64	L133,L133,L133,L133,L133,L133,L133,L133

CONF 52

1-8	L127,L127,L127,L127,L118,L118,L118,L118
9-16	L118,L118,L118,L118,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L133
25-32	L133,L133,L133,L118,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L118,L118,L118,L118
41-48	L118,L118,L118,L118,L133,L133,L133,L133
49-56	L133,L133,L133,L133,L133,L133,L133,L133
57-64	L133,L133,L133,L118,L118,L118,L118,L118

CONF 53

1-8	L127,L127,L127,L127,L133,L133,L133,L133
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L133
25-32	L133,L133,L133,L133,L133,L133,L133,L133
33-40	L133,L133,L133,L133,L133,L133,L133,L133
41-48	L133,L133,L133,L133,L133,L133,L133,L133
49-56	L133,L133,L133,L133,L133,L133,L133,L133
57-64	L133,L133,L133,L133,L133,L133,L133,L133

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 54

1-8	L127,L127,L127,L127,L122,L118,L138,L118
9-16	L138,L138,L138,L138,L123,L118,L138,L118
17-24	L138,L138,L138,L138,L123,L120,L120,L120
25-32	L120,L120,L120,L123,L123,L128,L128,L127
33-40	L122,L118,L138,L118,L138,L138,L138,L138
41-48	L123,L118,L138,L118,L138,L138,L138,L138
49-56	L123,L120,L120,L120,L120,L120,L120,L123
57-64	L123,L128,L128,L127,L138,L138,L138,L138

CONF 55

1-8	L127,L127,L127,L127,L118,L118,L118,L118
9-16	L121,L121,L121,L121,L121,L121,L121,L121
17-24	L121,L121,L121,L121,L121,L121,L137,L121
25-32	L121,L121,L121,L121,L121,L121,L137,L121
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L120,L120,L120,L120,L120,L120

CONF 56

1-8	L127,L127,L127,L127,L121,L121,L121,L137
9-16	L121,L121,L121,L121,L121,L121,L121,L137
17-24	L121,L121,L121,L121,L121,L121,L137,L121
25-32	L121,L121,L121,L121,L118,L118,L118,L118
33-40	L133,L133,L133,L133,L133,L133,L133,L133
41-48	L133,L133,L133,L133,L133,L133,L133,L133
49-56	L133,L133,L133,L133,L133,L133,L133,L133
57-64	L133,L133,L133,L133,L133,L133,L133,L133

CONF 57

1-8	L127,L127,L127,L127,L133,L133,L133,L133
9-16	L133,L133,L133,L137,L121,L121,L121,L121
17-24	L121,L121,L121,L121,L121,L121,L137,L121
25-32	L121,L121,L121,L121,L121,L121,L121,L137
33-40	L122,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L120,L120,L120,L120,L120,L120

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 58

1-8	L127,L127,L127,L127,L127,L127,L127,L127
9-16	L127,L127,L127,L127,L127,L127,L127,L127
17-24	L127,L127,L127,L127,L127,L127,L127,L127
25-32	L127,L127,L127,L127,L127,L127,L127,L127
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 59

1-8	L127,L127,L127,L127,L127,L127,L127,L127
9-16	L127,L127,L127,L127,L127,L127,L127,L127
17-24	L127,L127,L127,L127,L127,L127,L127,L127
25-32	L127,L127,L127,L127,L127,L123,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 60

1-8	L127,L127,L127,L127,L124,L124,L133,L124
9-16	L124,L124,L124,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L133
25-32	L133,L118,L118,L118,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 61

1-8	L127,L127,L127,L127,L124,L124,L133,L124
9-16	L124,L128,L128,L124,L124,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L118,L118
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 62

1-8	L127,L127,L127,L127,L124,L124,L123,L123
9-16	L123,L123,L124,L124,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L118,L118
25-32	L133,L133,L133,L133,L133,L133,L118,L118
33-40	L118,L118,L118,L118,L118,L118,L118,L118
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 63

1-8	L127,L127,L127,L127,L133,L123,L123,L133
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L118,L118,L118,L118
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 64

1-8	L127,L127,L127,L127,L123,L123,L123,L123
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L122,L122,L118,L118
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 65

1-8	L127,L127,L127,L127,L133,L118,L118,L118
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L122,L122,L118,L118,L118,L118,L118,L118
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 66

1-8	L127,L127,L127,L127,L123,L123,L133,L133
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L122,L122,L118,L118
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 67

1-8	L127,L127,L127,L127,L137,L121,L121,L121
9-16	L120,L120,L120,L118,L133,L133,L133,L133
17-24	L120,L120,L120,L120,L120,L120,L120,L120
25-32	L122,L122,L122,L122,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 68

1-8	L127,L127,L127,L127,L128,L128,L128,L128
9-16	L128,L128,L123,L128,L118,L118,L118,L118
17-24	L118,L118,L118,L118,L118,L118,L118,L118
25-32	L138,L138,L138,L138,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 69

1-8	L127,L127,L127,L127,L118,L118,L138,L123
9-16	L123,L123,L123,L123,L123,L123,L123,L123
17-24	L123,L123,L123,L123,L123,L123,L123,L123
25-32	L138,L138,L138,L138,L118,L118,L118,L118
33-40	L128,L128,L128,L128,L128,L128,L123,L128
41-48	L128,L128,L128,L128,L128,L128,L128,L128
49-56	L128,L128,L128,L128,L128,L128,L128,L128
57-64	L128,L128,L128,L128,L128,L128,L128,L128

CONTINUED . . .

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 REV. B (CONTINUED)

CONF 70

1-8	L127,L127,L127,L127,L128,L128,L128,L128
9-16	L128,L128,L123,L128,L118,L118,L118,L118
17-24	L118,L138,L118,L118,L118,L118,L118,L118
25-32	L138,L138,L138,L138,L118,L118,L118,L118
33-40	L128,L128,L128,L128,L128,L128,L128,L128
41-48	L128,L128,L128,L128,L128,L128,L128,L128
49-56	L128,L128,L128,L128,L128,L128,L128,L128
57-64	L128,L128,L128,L128,L128,L128,L128,L128

CONF 71

1-8	L127,L127,L127,L127,L133,L121,L121,L121
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L137
25-32	L137,L137,L137,L128,L128,L128,L128,L127
33-40	L137,L133,L133,L133,L133,L133,L133,L122
41-48	L122,L122,L122,L122,L122,L122,L122,L133
49-56	L133,L133,L133,L133,L133,L133,L133,L133
57-64	L133,L133,L133,L122,L122,L122,L122,L133

CONF 72

1-8	L127,L127,L127,L127,L133,L122,L122,L122
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L133
25-32	L133,L133,L133,L133,L133,L133,L133,L127
33-40	L122,L133,L133,L133,L133,L133,L133,L122
41-48	L122,L122,L122,L122,L122,L122,L122,L122
49-56	L122,L122,L122,L122,L122,L122,L122,L123
57-64	L123,L123,L123,L133,L133,L133,L133,L122

CONF 73

1-8	L127,L127,L127,L127,L122,L121,L121,L121
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L137
25-32	L137,L137,L137,L121,L121,L121,L121,L127
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 (CONTINUED)

REV C

CONF 74

1-8	L127,L127,L127,L127,L118,L120,L118,L120
9-16	L124,L124,L133,L133,L133,L133,L133,L133
17-24	L124,L124,L133,L133,L133,L133,L133,L133
25-32	L118,L118,L120,L120,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

CONF 75

1-8	L118,L118,L118,L118,L118,L118,L118,L118
9-16	L118,L118,L118,L118,L118,L118,L118,L118
17-24	L118,L118,L118,L118,L118,L118,L118,L118
25-32	L118,L118,L118,L118,L118,L118,L118,L137
33-40	L118,L118,L118,L118,L118,L118,L118,L118
41-48	L118,L118,L118,L118,L118,L118,L118,L118
49-56	L118,L118,L118,L118,L118,L118,L118,L118
57-64	L118,L118,L118,L118,L118,L118,L118,L118

REV D

CONF 76

1-8	L127,L127,L127,L127,L118,L120,L118,L120
9-16	L124,L133,L133,L133,L133,L133,L133,L133
17-24	L128,L128,L133,L133,L133,L133,L133,L133
25-32	L118,L118,L120,L120,L118,L118,L118,L118
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 (CONTINUED)

REV E

CONF 77

1-8	L127,L127,L127,L127,L121,L121,L121,L121
9-16	L121,L121,L122,L122,L118,L118,L118,L118
17-24	L121,L121,L118,L118,L118,L118,L118,L118
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L118,L118,L118,L118,L118,L118

REV F

CONF 78

1-8	L127,L127,L127,L127,L120,L120,L120,L120
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L120,L120,L120,L120,L120,L120,L120
25-32	L120,L120,L120,L120,L120,L120,L120,L120
33-40	L137,L121,L121,L121,L121,L121,L121,L137
41-48	L121,L121,L121,L121,L121,L121,L137,L121
49-56	L121,L121,L137,L121,L121,L121,L137,L121
57-64	L121,L121,L121,L122,L122,L122,L122,L122

REV G

CONF 79

1-8	L127,L127,L127,L127,L123,L123,L123,L123
9-16	L123,L123,L123,L120,L120,L120,L120,L120
17-24	L120,L127,L127,L127,L127,L127,L127,L128
25-32	L128,L128,L133,L133,L133,L127,L127,L127
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-02 (CONTINUED)

REV H

CONF 80

1-8	L127,L127,L127,L127,L120,L120,L120,L120
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L120,L120,L120,L120,L120,L120,L120
25-32	L120,L120,L120,L120,L120,L120,L120,L120
33-40	L120,L121,L121,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L121,L121,L137,L121,L121,L137,L120,L120

REV I

CONF 81

1-8	L127,L127,L127,L127,L123,L123,L123,L123
9-16	L123,L123,L123,L120,L120,L120,L120,L120
17-24	L120,L127,L127,L127,L127,L127,L127,L128
25-32	L128,L128,L133,L133,L133,L127,L127,L127
33-40	L123,L123,L122,L122,L127,L127,L127,L127
41-48	L123,L123,L122,L122,L127,L127,L127,L127
49-56	L123,L123,L122,L122,L127,L127,L127,L127
57-64	L128,L128,L137,L137,L122,L122,L127,L127

REV J

CONF 82

1-8	L127,L127,L127,L127,L121,L121,L121,L121
9-16	L121,L121,L122,L122,L122,L122,L122,L122
17-24	L121,L121,L121,L121,L121,L121,L137,L121
25-32	L121,L121,L121,L121,L121,L121,L121,L137
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L120,L120,L120,L120,L120,L120

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-03 (CONTINUED)

REV K

CONF 83

1-8	L127,L127,L127,L127,L121,L121,L121,L121
9-16	L121,L121,L122,L122,L122,L122,L122,L122
17-24	L121,L121,L121,L118,L118,L118,L118,L118
25-32	L118,L118,L118,L118,L121,L121,L121,L121
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L121,L121,L121,L121,L121,L121

MASK ROM A17-46690-03

REV A

CONF 100

1-8	L127,L127,L127,L127,L133,L121,L121,L121
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L137
25-32	L137,L137,L128,L128,L128,L120,L120,L127
33-40	L137,L120,L120,L120,L118,L123,L123,L122
41-48	L122,L122,L122,L122,L122,L122,L122,L133
49-56	L133,L133,L133,L133,L133,L133,L133,L133
57-64	L133,L133,L133,L122,L122,L122,L122,L133

REV B

CONF 101

1-8	L127,L127,L127,L127,L123,L123,L123,L123
9-16	L121,L121,L121,L137,L121,L121,L121,L121
17-24	L121,L121,L121,L121,L121,L121,L121,L121
25-32	L121,L121,L121,L121,L121,L121,L118,L118
33-40	L120,L120,L120,L120,L120,L120,L120,L120
41-48	L120,L120,L120,L120,L120,L120,L120,L120
49-56	L120,L120,L120,L120,L120,L120,L120,L120
57-64	L120,L120,L120,L120,L120,L120,L120,L120

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-03 (CONTINUED)

REV C

CONF 102

1-8	L127,L127,L127,L127,L128,L128,L128,L128
9-16	L128,L128,L128,L128,L118,L123,L118,L123
17-24	L123,L123,L123,L123,L123,L123,L123,L123
25-32	L123,L123,L123,L123,L122,L122,L122,L122
33-40	L128,L128,L128,L128,L128,L128,L128,L128
41-48	L128,L128,L128,L128,L128,L128,L128,L128
49-56	L123,L123,L123,L123,L123,L123,L123,L123
57-64	L118,L123,L118,L123,L118,L123,L118,L123

REV D

CONF 103

1-8	L127,L127,L127,L127,L128,L128,L128,L128
9-16	L128,L128,L128,L128,L118,L138,L118,L138
17-24	L123,L123,L123,L123,L123,L123,L123,L123
25-32	L123,L123,L123,L123,L122,L122,L122,L122
33-40	L128,L128,L128,L128,L128,L128,L128,L128
41-48	L128,L128,L128,L128,L128,L128,L128,L128
49-56	L123,L123,L123,L123,L123,L123,L123,L123
57-64	L118,L123,L118,L123,L118,L123,L118,L123

REV E

CONF 104

1-8	L127,L127,L127,L127,L120,L133,L133,L133
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L133,L133,L133,L133,L133,L133,L137
25-32	L137,L137,L137,L121,L121,L121,L121,L127
33-40	L122,L121,L121,L121,L133,L133,L133,L122
41-48	L122,L122,L122,L122,L122,L122,L122,L133
49-56	L133,L133,L133,L133,L133,L133,L133,L133
57-64	L133,L133,L133,L133,L133,L133,L133,L121

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-03 (CONTINUED)

REV F

CONF 105

1-8	L142,L142,L142L142,L142,L142,L142,L142
9-16	L142,L142,L142L142,L142,L142,L142,L142
17-24	L142,L142,L142L142,L142,L142,L142,L142
25-32	L142,L142,L142L142,L142,L142,L142,L142
33-40	L142,L142,L142L142,L142,L142,L142,L142
41-48	L142,L142,L142L142,L142,L142,L142,L142
49-56	L142,L142,L142L142,L142,L142,L142,L142
57-64	L142,L142,L142L142,L142,L142,L142,L142

REV G

CONF 106

1-8	L127,L127,L127,L127,L122,L122,L118,L123
9-16	L123,L128,L128,L128,L123,L123,L123,L123
17-24	L123,L123,L123,L123,L123,L123,L123,L123
25-32	L122,L122,L123,L123,L126,L122,L122,L122
33-40	L123,L123,L123,L123,L123,L123,L123,L123
41-48	L123,L123,L123,L123,L128,L128,L128,L128
49-56	L133,L133,L133,L133,L123,L123,L123,L123
57-64	L133,L133,L133,L133,L122,L122,L127,L127

REV H

CONF 107

1-8	L127,L127,L127,L127,L128,L128,L128,L128
9-16	L128,L128,L128,L128,L118,L138,L118,L138
17-24	L123,L123,L123,L123,L123,L123,L123,L123
25-32	L123,L123,L123,L123,L128,L123,L118,L118
33-40	L118,L138,L118,L123,L118,L123,L118,L123
41-48	L123,L123,L123,L123,L123,L123,L123,L123
49-56	L123,L123,L123,L123,L123,L123,L123,L123
57-64	L128,L128,L128,L128,L128,L128,L118,L118

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-03 (CONTINUED)

REV I

CONF 108

1-8	L127,L127,L127,L127,L127,L127,L127,L127
9-16	L127,L127,L127,L127,L127,L127,L127,L127
17-24	L127,L127,L127,L127,L127,L127,L127,L127
25-32	L127,L127,L127,L127,L127,L127,L127,L127
33-40	L123,L123,L123,L123,L123,L123,L123,L123
41-48	L123,L123,L123,L123,L123,L123,L123,L123
49-56	L123,L123,L123,L118,L118,L118,L118,L118
57-64	L118,L118,L118,L118,L128,L128,L137,L137

REV J

CONF 109

1-8	L127,L127,L127,L127,L133,L121,L121,L121
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L133
25-32	L133,L137,L137,L128,L128,L120,L120,L127
33-40	L137,L120,L123,L123,L123,L118,L123,L123
41-48	L122,L122,L122,L122,L122,L122,L122,L122
49-56	L122,L122,L122,L122,L122,L122,L122,L122
57-64	L133,L133,L133,L133,L122,L122,L122,L122

REV K

CONF 110

1-8	L127,L127,L127,L127,L127,L127,L127,L127
9-16	L127,L127,L127,L127,L128,L128,L128,L128
17-24	L128,L128,L128,L128,L128,L128,L128,L128
25-32	L128,L128,L128,L128,L127,L127,L127,L127
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-03 (CONTINUED)

REV L

CONF 111

1-8	L127,L127,L127,L127,L133,L121,L121,L121
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L137,L137,L137
25-32	L137,L128,L128,L128,L128,L120,L120,L120
33-40	L123,L123,L120,L120,L120,L118,L123,L123
41-48	L122,L123,L122,L122,L122,L122,L122,L122
49-56	L133,L133,L133,L133,L133,L133,L133,L133
57-64	L128,L128,L128,L128,L133,L133,L133,L133

REV M

CONF 112

1-8	L127,L127,L127,L127,L118,L118,L118,L118
9-16	L118,L118,L118,L118,L118,L118,L118,L118
17-24	L118,L118,L118,L118,L118,L118,L118,L118
25-32	L118,L118,L118,L118,L118,L118,L118,L118
33-40	L120,L120,L120,L120,L137,L137,L137,L137
41-48	L121,L121,L121,L121,L127,L127,L127,L127
49-56	L137,L137,L137,L137,L118,L118,L118,L118
57-64	L118,L118,L118,L118,L118,L118,L118,L118

REV N

CONF 113

1-8	L127,L127,L127,L127,L120,L133,L133,L133
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L133,L133,L133,L133,L133,L133,L137
25-32	L137,L137,L137,L121,L121,L121,L121,L127
33-40	L122,L121,L121,L121,L133,L133,L133,L122
41-48	L122,L122,L122,L122,L122,L122,L122,L133
49-56	L133,L133,L133,L133,L123,L133,L133,L128
57-64	L128,L128,L128,L128,L128,L128,L128,L121

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-03 (CONTINUED)

REV O

CONF 114

1-8	L127,L127,L127,L127,L128,L122,L122,L122
9-16	L128,L128,L128,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L133
25-32	L133,L133,L133,L133,L133,L133,L133,L127
33-40	L128,L128,L133,L133,L133,L133,L133,L133
41-48	L122,L122,L122,L122,L122,L122,L122,L122
49-56	L122,L122,L122,L122,L122,L122,L122,L122
57-64	L123,L123,L123,L123,L128,L128,L128,L128

REV P

CONF 115

1-8	L127,L127,L127,L127,L120,L133,L133,L133
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L133,L133,L133,L133,L133,L133,L137
25-32	L137,L137,L137,L121,L121,L121,L121,L127
33-40	L122,L121,L121,L121,L133,L133,L133,L122
41-48	L122,L122,L122,L122,L122,L122,L122,L133
49-56	L133,L133,L133,L133,L123,L133,L133,L128
57-64	L128,L128,L128,L128,L128,L128,L128,L121

REV Q

CONF 116

1-8	L127,L127,L127,L127,L133,L121,L121,L121
9-16	L133,L133,L133,L133,L133,L133,L133,L133
17-24	L133,L133,L133,L133,L133,L133,L133,L137
25-32	L137,L121,L121,L122,L122,L122,L122,L122
33-40	L118,L118,L122,L122,L123,L123,L133,L133
41-48	L122,L122,L122,L122,L122,L122,L122,L122
49-56	L133,L133,L133,L133,L133,L133,L133,L133
57-64	L122,L122,L122,L122,L128,L128,L128,L128

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-03 (CONTINUED)

REV R

CONF 117

1-8	L127,L127,L127,L127,L127,L127,L127,L127
9-16	L127,L127,L127,L127,L127,L127,L127,L127
17-24	L127,L127,L127,L127,L127,L127,L127,L127
25-32	L127,L127,L127,L127,L118,L118,L118,L118
33-40	L128,L128,L128,L127,L127,L127,L127,L127
41-48	L122,L122,L122,L122,L122,L122,L122,L122
49-56	L118,L118,L118,L118,L118,L138,L138,L138
57-64	L127,L127,L127,L127,L127,L127,L127,L127

REV S

CONF 118

1-8	L127,L127,L127,L127,L128,L128,L128,L128
9-16	L128,L128,L128,L128,L128,L128,L128,L128
17-24	L128,L128,L128,L128,L128,L128,L128,L122
25-32	L122,L122,L122,L122,L122,L122,L122,L122
33-40	L118,L118,L122,L122,L123,L123,L133,L133
41-48	L122,L122,L122,L122,L122,L122,L122,L122
49-56	L133,L133,L133,L133,L133,L133,L133,L133
57-64	L122,L122,L122,L122,L122,L122,L122,L122

REV T

CONF 119

1-8	L127,L127,L127,L127,L128,L128,L128,L128
9-16	L122,L122,L122,L122,L128,L128,L128,L128
17-24	L128,L128,L128,L128,L128,L128,L128,L128
25-32	L128,L128,L128,L128,L122,L122,L122,L122
33-40	L127,L127,L127,L127,L127,L127,L127,L127
41-48	L127,L127,L127,L127,L127,L127,L127,L127
49-56	L127,L127,L127,L127,L127,L127,L127,L127
57-64	L127,L127,L127,L127,L127,L127,L127,L127

46033-01 SWITCH SETTINGS

MASK ROM A17-46690-03 (CONTINUED)

REV U

CONF 120

1-8	L127,L127,L127,L127,L137,L121,L121,L121
9-16	L120,L120,L120,L120,L120,L120,L120,L120
17-24	L120,L120,L120,L120,L120,L120,L120,L128
25-32	L128,L128,L128,L128,L128,L128,L128,L122
33-40	L122,L122,L133,L133,L133,L133,L133,L133
41-48	L122,L122,L122,L122,L122,L122,L122,L122
49-56	L128,L128,L128,L128,L128,L128,L128,L128
57-64	L128,L128,L128,L128,L128,L128,L128,L128

REV V

CONF 121

1-8	L127,L127,L127,L127,L122,L122,L122,L122
9-16	L122,L122,L122,L122,L122,L122,L122,L122
17-24	L122,L122,L122,L122,L122,L122,L133,L133
25-32	L133,L133,L133,L133,L133,L133,L122,L122
33-40	L123,L122,L122,L122,L122,L122,L122,L122
41-48	L122,L122,L122,L122,L122,L122,L122,L122
49-56	L122,L122,L122,L122,L122,L122,L122,L122
57-64	L128,L128,L128,L128,L128,L128,L128,L128

REV W

CONF 122

1-8	L127,L127,L127,L127,L122,L122,L122,L122
9-16	L122,L122,L122,L122,L122,L122,L122,L122
17-24	L122,L122,L122,L122,L122,L122,L122,L122
25-32	L122,L122,L122,L122,L122,L122,L122,L122
33-40	L128,L128,L122,L122,L122,L128,L128,L122
41-48	L122,L122,L133,L133,L133,L133,L133,L133
49-56	L133,L133,L133,L133,L128,L128,L128,L128
57-64	L128,L128,L128,L128,L128,L128,L128,L128

TECHNICAL SPECIFICATIONS

DESCRIPTION	VALUE
Input Voltage	-21 to -56 VDC
Input Current Range	
@ -21 VDC	115 mA
@ -24 VDC	105 mA
@ -48 VDC	72 mA
@ -56 VDC	68 mA
Heat Dissipation	
@ -21 VDC	8.3 Btu/Hr
@ -24 VDC	8.8 Btu/Hr
@ -48 VDC	11.8 Btu/Hr
@ -56 VDC	13.0 Btu/Hr
Weight (without subassembly)	8.5 ounces
Physical Dimensions	1.4" x 6.0" x 5.6"
Operating Temperature Range	0° to 55° C.

NOTES

WARRANTY

LIMITED WARRANTY

The Seller warrants that the standard hardware products sold will be free from defects in material and workmanship and perform to the Seller's applicable published specifications for a period of 18 months for hardware, and 3 months for software, from the date of the original invoice. The liability of the Seller hereunder shall be limited to replacing or repairing, at its option, any defective products which are returned F.O.B. to the Seller's plant, (or, at the Seller's option, refunding the purchase price of such products). In no case are products to be returned without first obtaining permission and a customer return authorization number from the Seller. In no event shall the Seller be liable for any consequential or incidental damages.

Equipment or parts which have been subject to abuse, misuse, accident, alteration, neglect, unauthorized repair or installation are not covered by warranty. The Seller shall make the final determination as to the existence and cause of any alleged defect. No warranty is made with respect to custom equipment or products produced to the Buyer's specifications except as specifically stated in writing by the Seller in the contract for such custom equipment.

This warranty is the only warranty made by the Seller with respect to the goods delivered hereunder, and may be modified or amended only by a written instrument signed by a duly authorized officer of the Seller and accepted by the Buyer.

Warranty and remedies on products not manufactured by the Seller are in accordance with warranty of the respective manufacturer. THE SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED; AND ALL IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEEDS THE AFORESAID OBLIGATIONS IS HEREBY DISCLAIMED BY THE SELLER.

IN CASE OF DIFFICULTY

If you experience difficulty with this equipment, check the following, as appropriate:

1. **Switch settings**
2. **Signal levels**
3. **Software configuration**
4. **Connections between Dantel's equipment and your equipment.**

If there is still a problem, substitute equipment that is known to be good. For additional assistance, call Dantel's Technical Field Service Department weekdays, 6 A.M. to 5 P.M. pacific time:

1-800-4DANTEL (1-800-432-6835).

If a thorough checkout shows a piece of equipment has malfunctioned, you may return it to the factory. For repairs and emergency replacements, obtain a Return Material Authorization (RMA) number from the Customer Service Representative at **1-800-4DANTEL (1-800-432-6835)**.

To ensure expedient processing of your order, provide a purchase order number and shipping and billing information when requesting an RMA number. Also, when the units are returned to Dantel, include a description of the failure symptoms for each unit returned. Send defective equipment to:

Dantel, Inc. • 2991 North Argyle Avenue • Fresno, California 93727-1388

