

BABY BEAR BONES EXPANDERDESCRIPTION

The Baby Bear Bones Expander allows you to expand your Baby Bear Bones by adding 8 inputs and 8 outputs. It is a single board designed to fit into industry standard break-away plastic relay track or mount with standard Bear Bones Hardware Kits. It is cable connected to the Baby Bear Bones. The inputs are self supplying - no external voltage is required. You may furnish plug in relays or timers for the output sockets.

FEATURES

Easy plug-in cable connector to the Baby Bear Bones self-supplied inputs. Plug in relays, timers, setpoint comparators, analog timers.  
96 hour burn-in at the factory.  
Compact and rugged.

APPLICATION

This expander enhances the capabilities of your Baby Bear Bones by adding 8 inputs and 8 output sockets. The inputs and outputs that are available are addressed 1/08 through 1/15. See Data Sheet 7809-43 to review the Baby Bear Bones.

PROGRAMMING

All program instructions originate in the Baby Bear Bones, see Data Sheet 7809-43.

STANDARD OPTIONS

Timer Module - See Data Sheet 7809-45.  
Timers or Comparators - See Data Sheets 7809-32,40,41,35 (See Note 1, Page 6 and connector 4, Sheet 5.

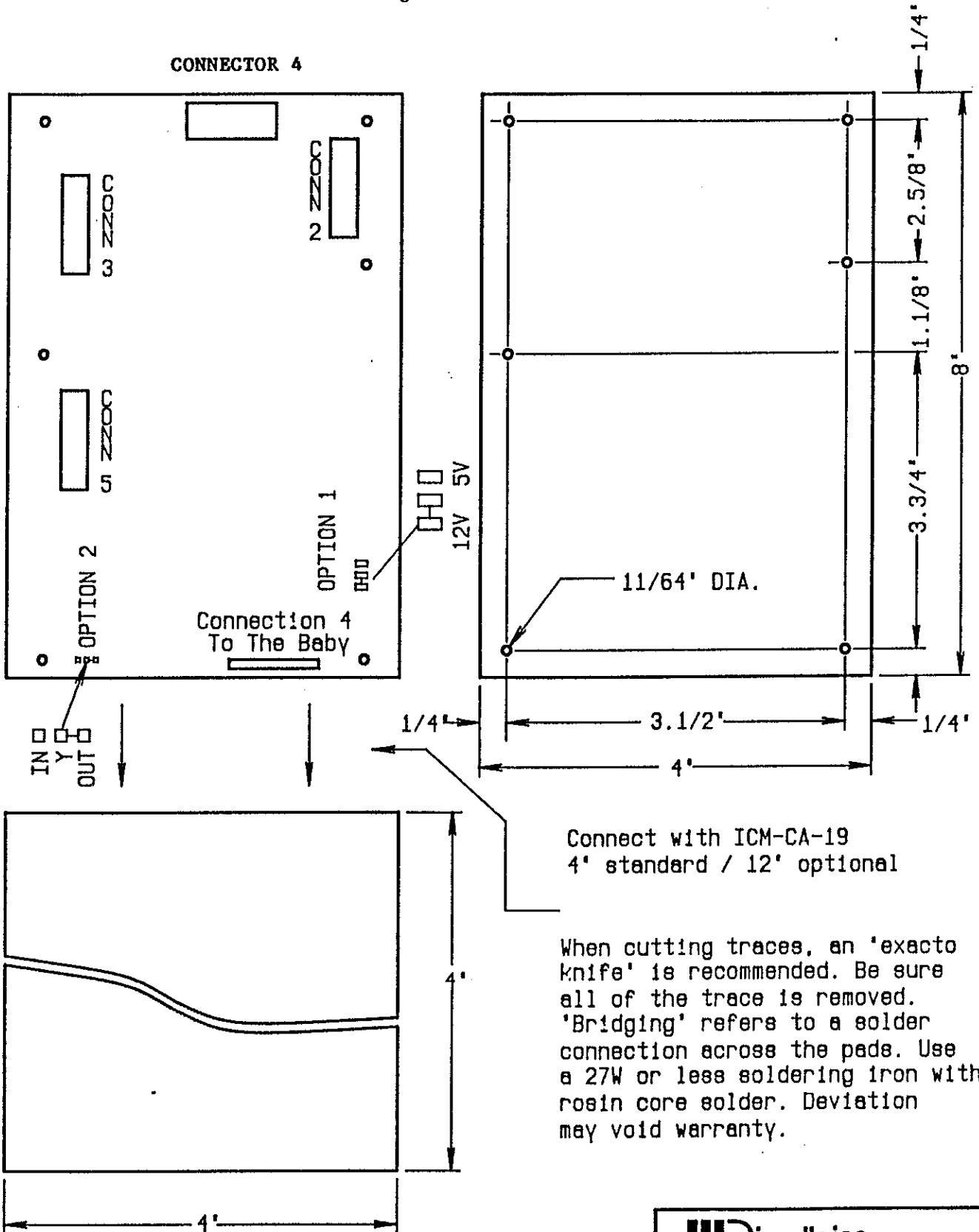
Current Rev. 03 01/17/89

 Rev. 01 CORPORATION 02/20/87	
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BABY BEAR BONES EXPANDER

Figure 2



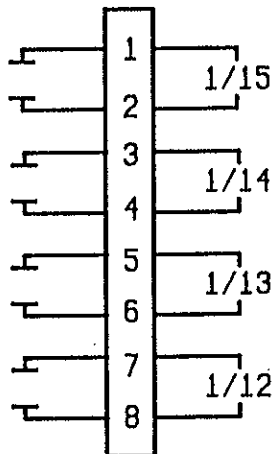
Connect with ICM-CA-19  
4' standard / 12' optional

When cutting traces, an 'exacto knife' is recommended. Be sure all of the trace is removed. 'Bridging' refers to a solder connection across the pads. Use a 27W or less soldering iron with rosin core solder. Deviation may void warranty.

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### BABY BEAR BONES EXPANDER

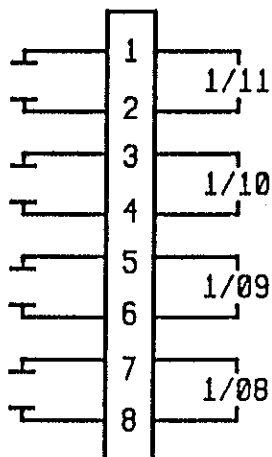
CONN 3  
OUTPUT



CONN 2  
INPUTS

1	COM
2	1/15
3	1/14
4	1/13
5	1/12
6	1/11
7	1/10
8	1/09
9	1/08
10	+V

CONN 5  
OUTPUT



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CONNECTOR - Used with 5 function timers, or comparators.


4

1	14	1 Card Ground	8 Card Ground
2	13	2 Not connected	9 Output #11
3	12	3 Input #11	10 Output #12
4	11	4 Input #12	11 Output #13
5	10	5 Input #13	12 Output #14
6	9	6 Input #14	13 Output #15
7	8	7 Input #15	14 +5VDC Logic Supply

Should you use the 5 function timer or counter you would sacrifice inputs and outputs 11 thru 15.

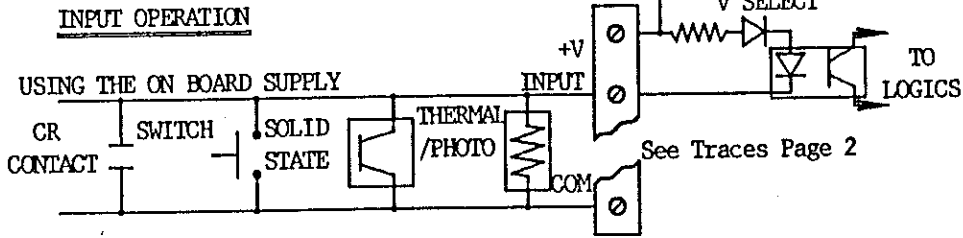
CONNECTION 4 - Receptacle for BABY BEAR BONES.

1	+5VDC out
2	+12VDC out
3	
4	Word bit 0 out
5	Word bit 1 out
6	Card common
7	
8	Word Bit 2 out
9	Input data channel
10	Output data channel
11	Write out
12	Word bit 3 out
13	System clock out
14	Reset out
15	Page 1 enable

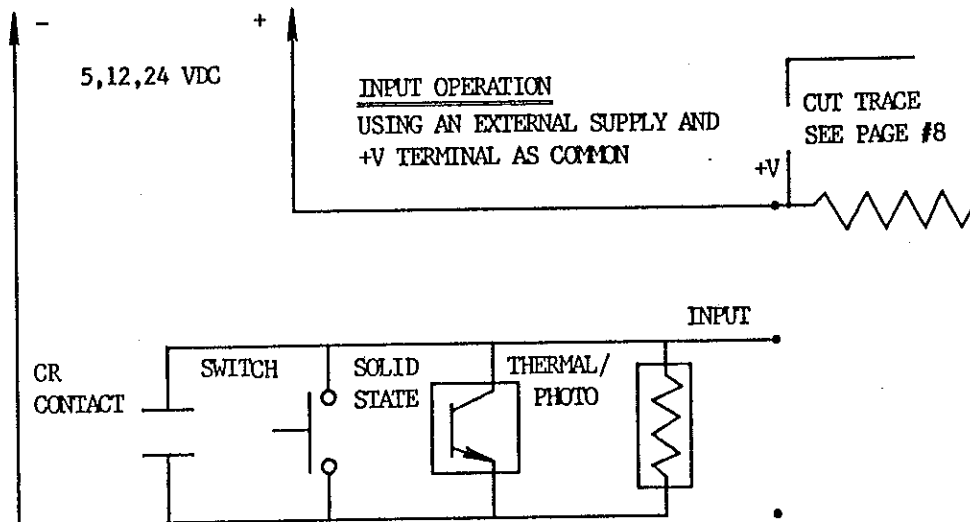
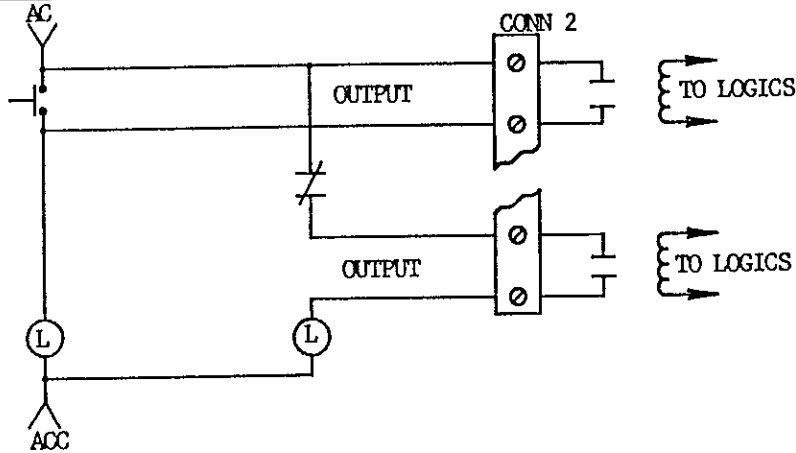
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### BABY BEAR BONES EXPANDER

CONN 3 OR 5



OUTPUT OPERATION



WARNING

The Baby Bear Bones Expander, as with other solid state controls, must not be used in applications which would be hazardous to personnel in the event of failure of the controller. Precautions must be taken to provide mechanical and/or electrical safeguards external to the controller.

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