

Model 2012
ACB ADAPTER
INSTRUCTION MANUAL

February, 1990

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PLM:rem(wp)	

KineticSystems Corporation

Standardized Data Acquisition and Control Systems

2012

ACB Adapter

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FEATURE

- Arranged for patching LAMs between main and auxiliary crate controllers

APPLICATION

- Allows selective LAM patching to auxiliary controllers

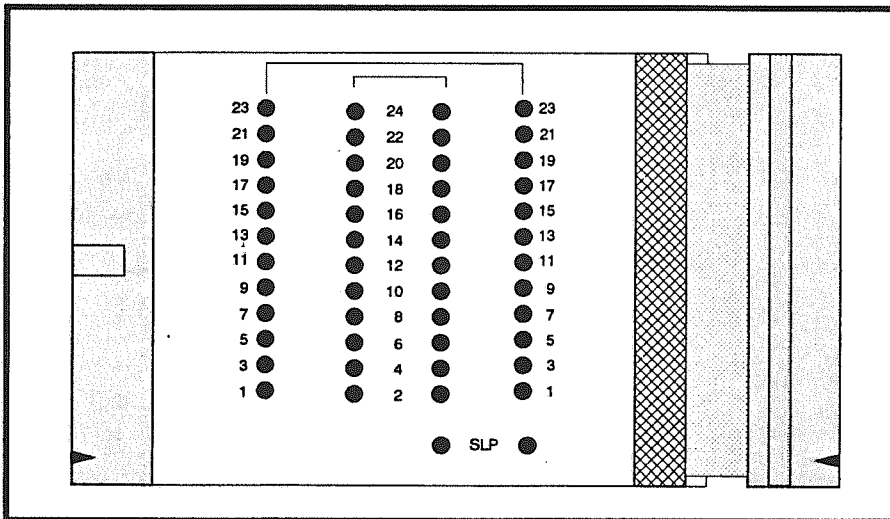
GENERAL DESCRIPTION

The Model 2012 adapter card interconnects the auxiliary controller bus (ACB) of a main and an auxiliary crate controller in accordance with ANSI/IEEE Standard 675 for multiple controllers in a CAMAC crate.

The auxiliary controller bus is terminated with two 40-contact connectors, one male and one female. This provides for the orderly interconnection of the ACB of the main crate controller with that of the auxiliary crate controller. The 2012 splits the auxiliary LAM and SLP (Selected LAM Present) lines, and passes the remaining signals, such as the encoded Ns and ACIs, between the two connectors.

The 2012 has Auxiliary LAM Lines 1 through 24 connected to wire wrap (W/W) pins, allowing the user to selectively patch LAMs to an auxiliary controller. Most useful in cases where the auxiliary crate controller does not have LAM masking capability, this feature prevents the auxiliary controller from responding to LAMs that are not intended for it.

LAM JUMPER LOCATIONS



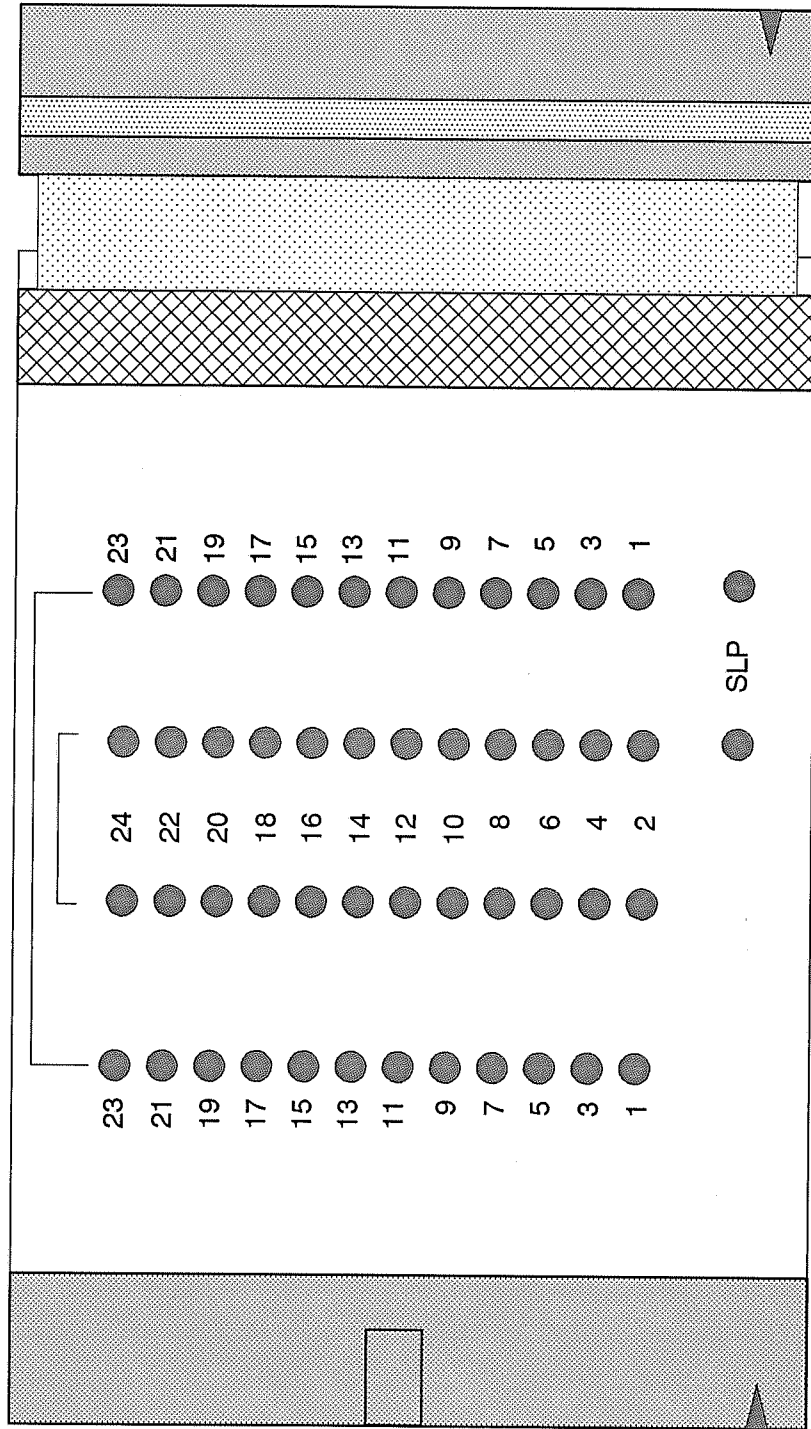
ORDERING INFORMATION

Weight: .17 kg. (6 oz.)

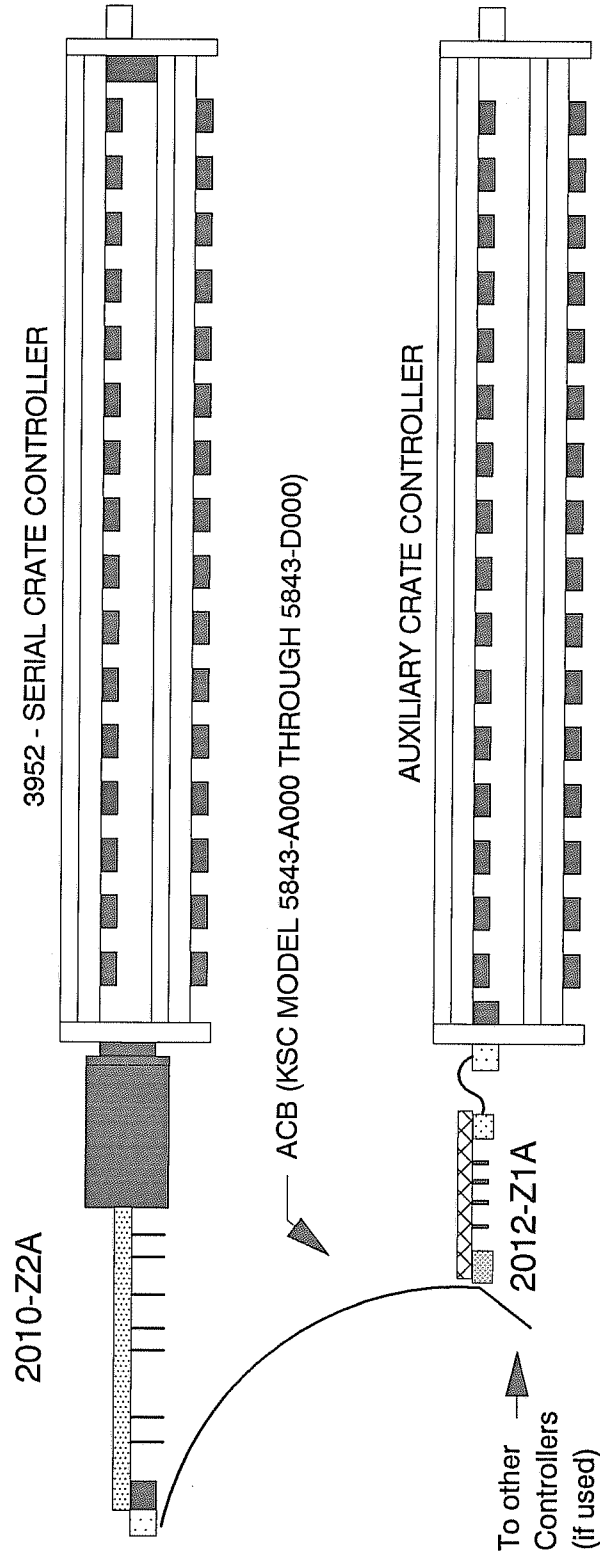
- Model 2012-Z1A — ACB Adapter
Accessories — None

2012-Z1A JUMPER LOCATIONS

● = W/W PINS



3952 and ACC



Using a 2012 in a multiple controller configuration.

Refer to figure 1a and 1b for wiring diagram.

2012-Z1A JUMPER LOCATIONS

● = W/W PINS

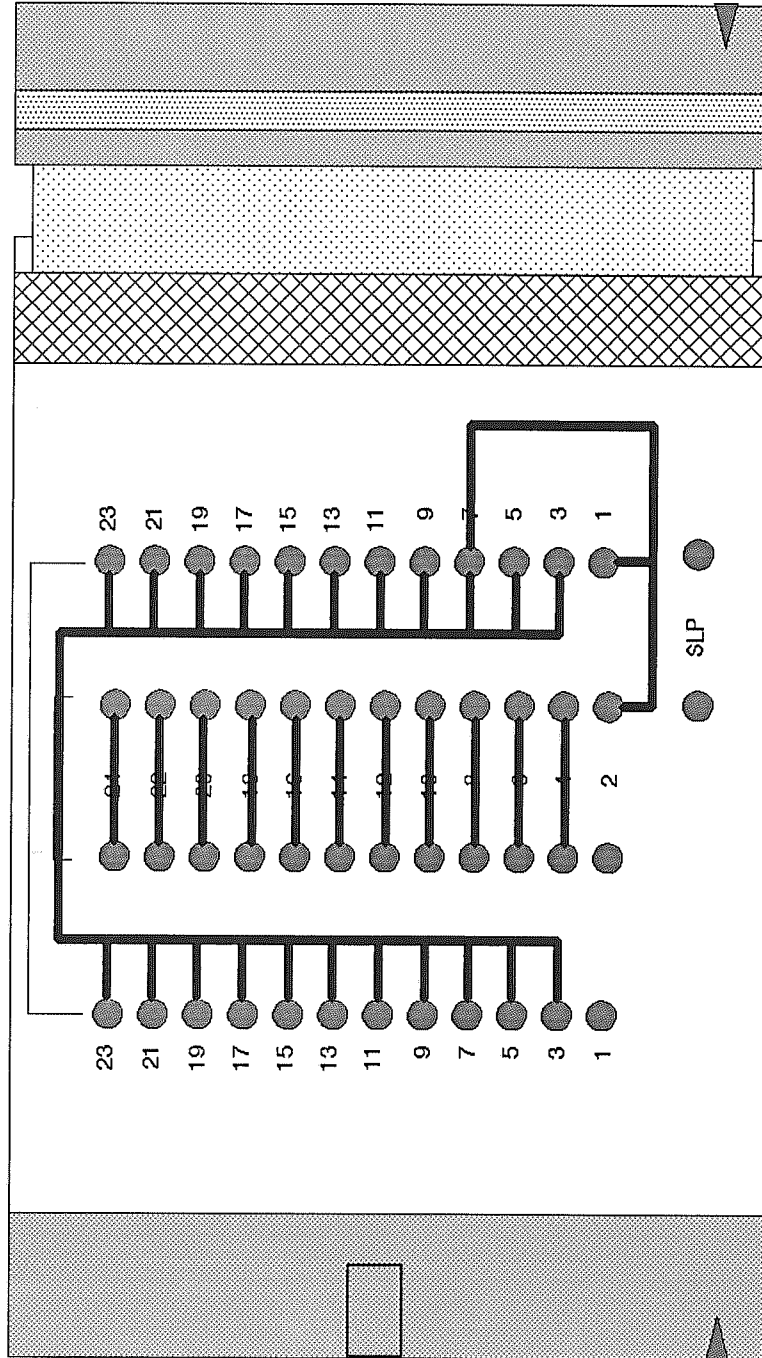


Figure 1a
 LAM's split between SCC and Auxiliary controllers. Note slot 7 has no module in it to assert a LAM and is used to pull-up LAM lines 1 and 2 which are used by the SCC.

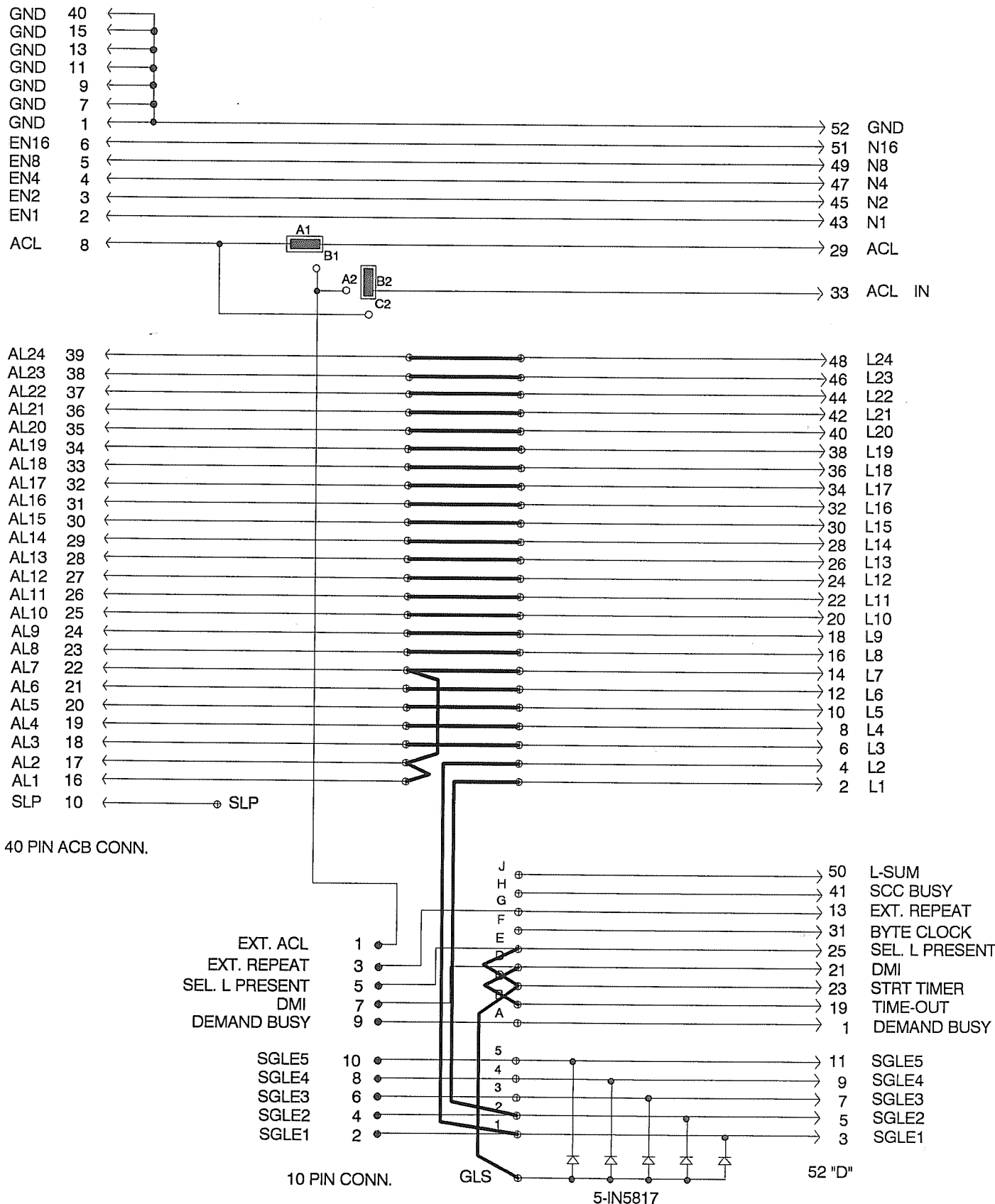
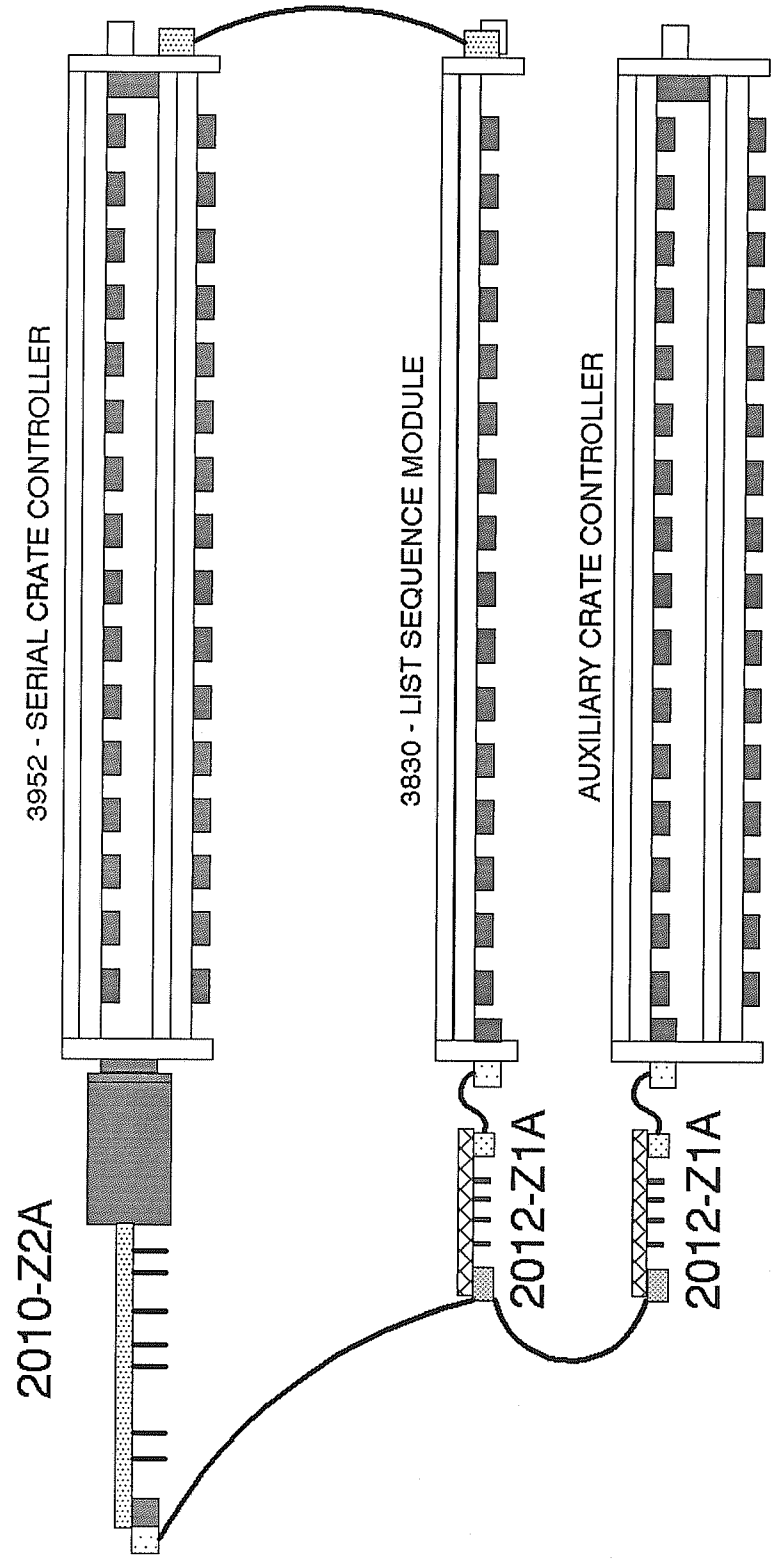


FIGURE 1b

LAM's split between SCC and Auxillary Controllers. Note, slot 7 is not asserting a LAM and is used to pull-up LAM lines 1 and 2 which are used by the SCC.

3952 and 3830



Configuration using multiple Crate Controllers
and the List Sequence Module.
Refer to wiring diagram 2a, 2b and 2c.

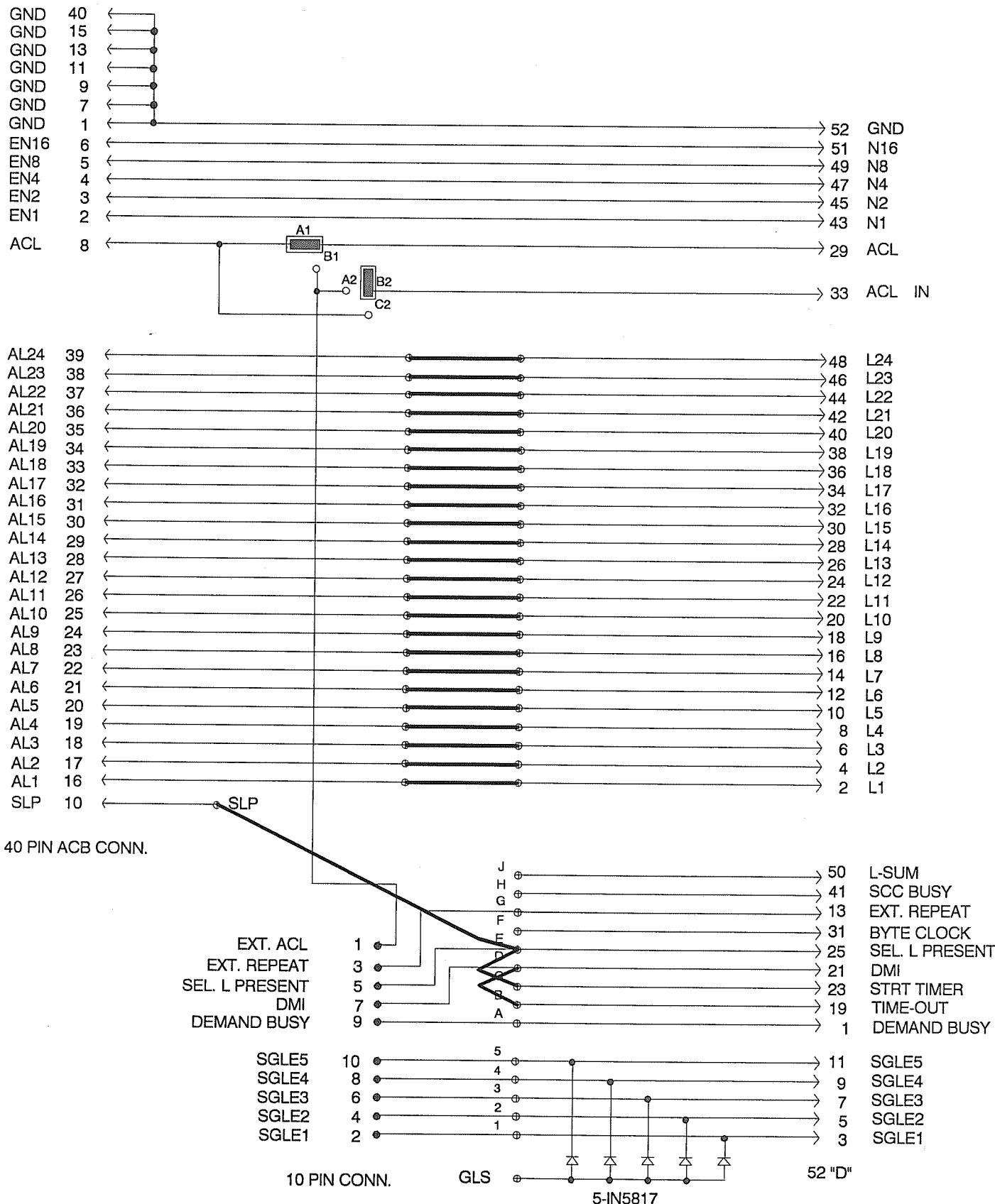


FIGURE 2a (3952/3830/ACC)

The SCC has all LAM's Patched to the ACB, and will generate a DEMAND upon SLP from the 3830 (LSM) going true.

2012-Z1A List Sequence Module Location

● = W/W PINS

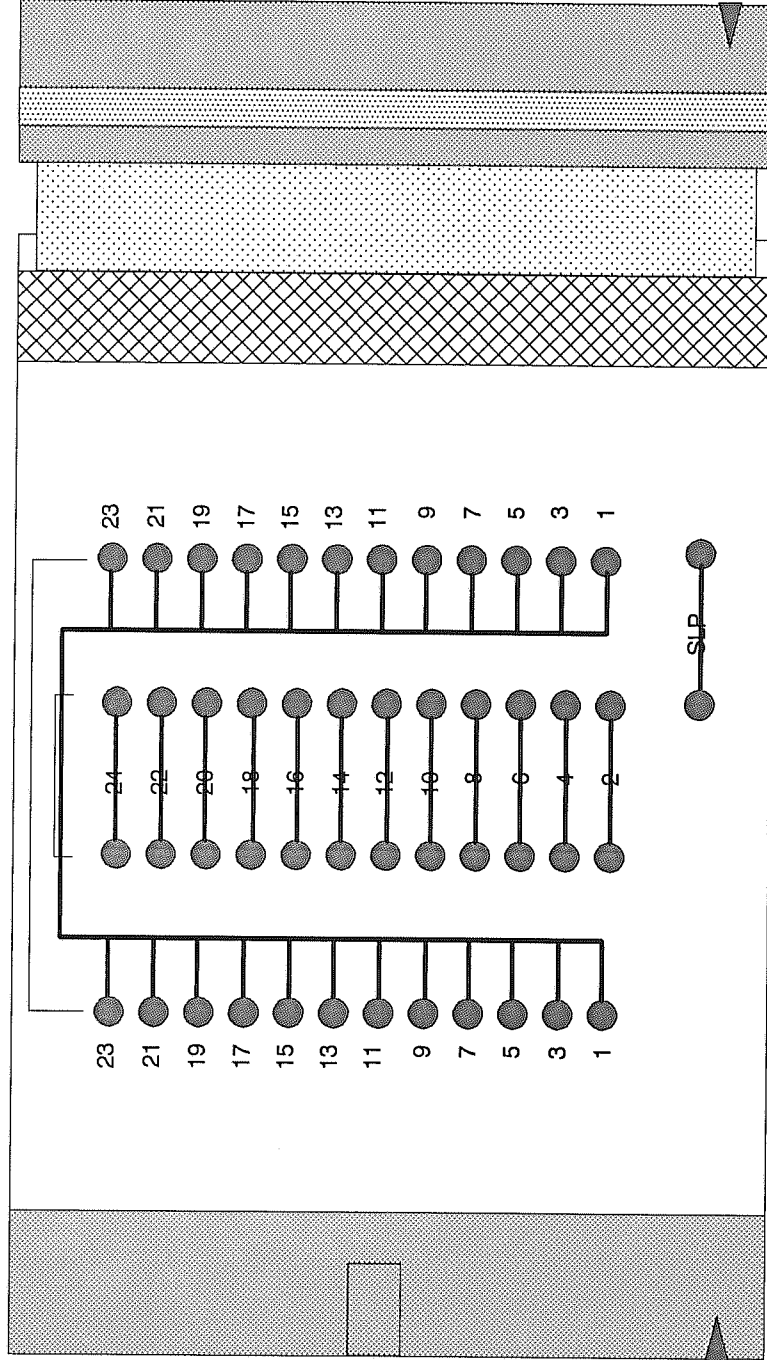


Figure 2b

All LAM's passed to LSM. Unused LAM's will be blocked by internal LAM MASK register. Upon receipt on Selected LAM SLP will be passed back to SCC.

2012-Z1A Auxiliary Controller Position

● = W/W PINS

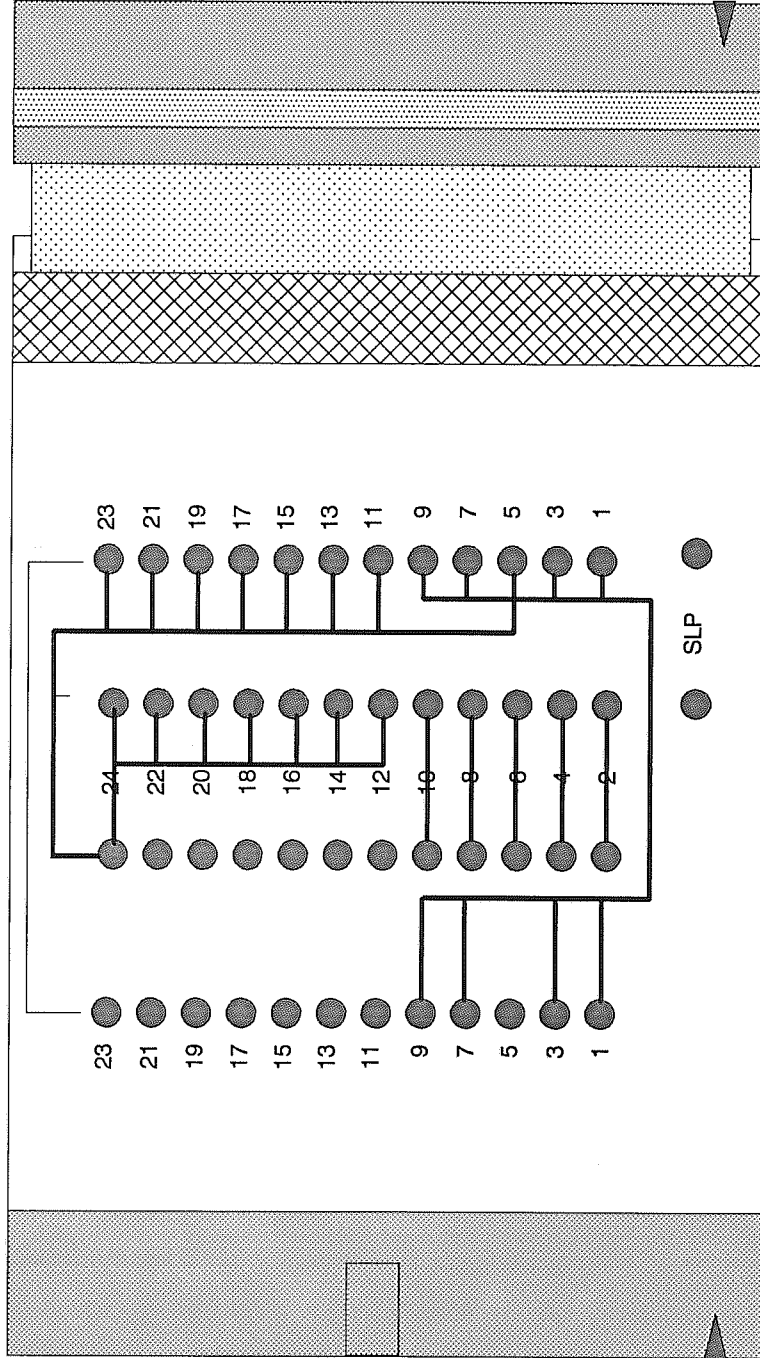
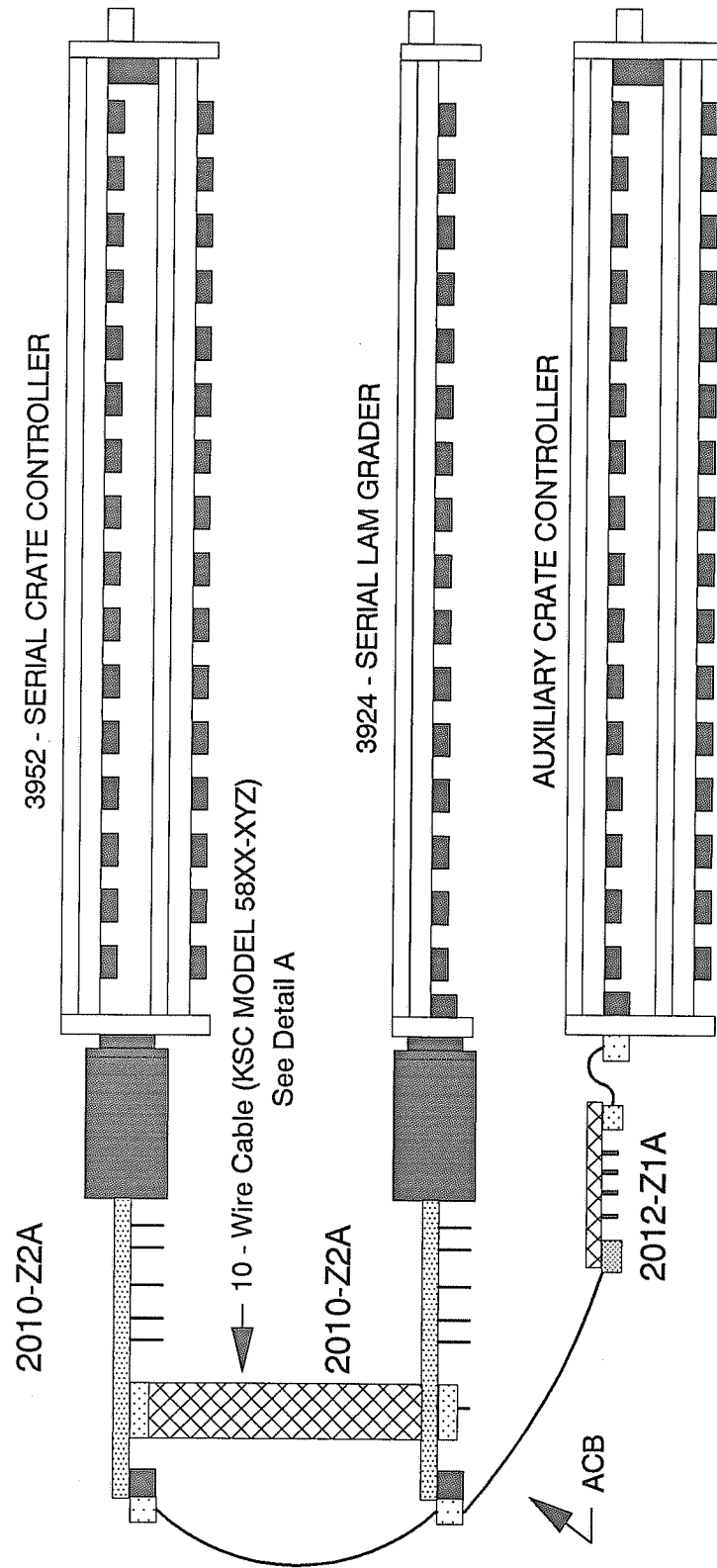


Figure 2c (Auxiliary Controller without LAM MASK Register)
 Selective LAM patching. In this case only the LAM's which the
 Auxiliary Controller will respond to are patched. All unused LAM's
 are tied to a LAM line that is not used by a module.

3952 and 3924



Configuration using multiple Crate Controllers and the Serial LAM Grader.

Refer to wiring diagram 3a, 3b and 3c.

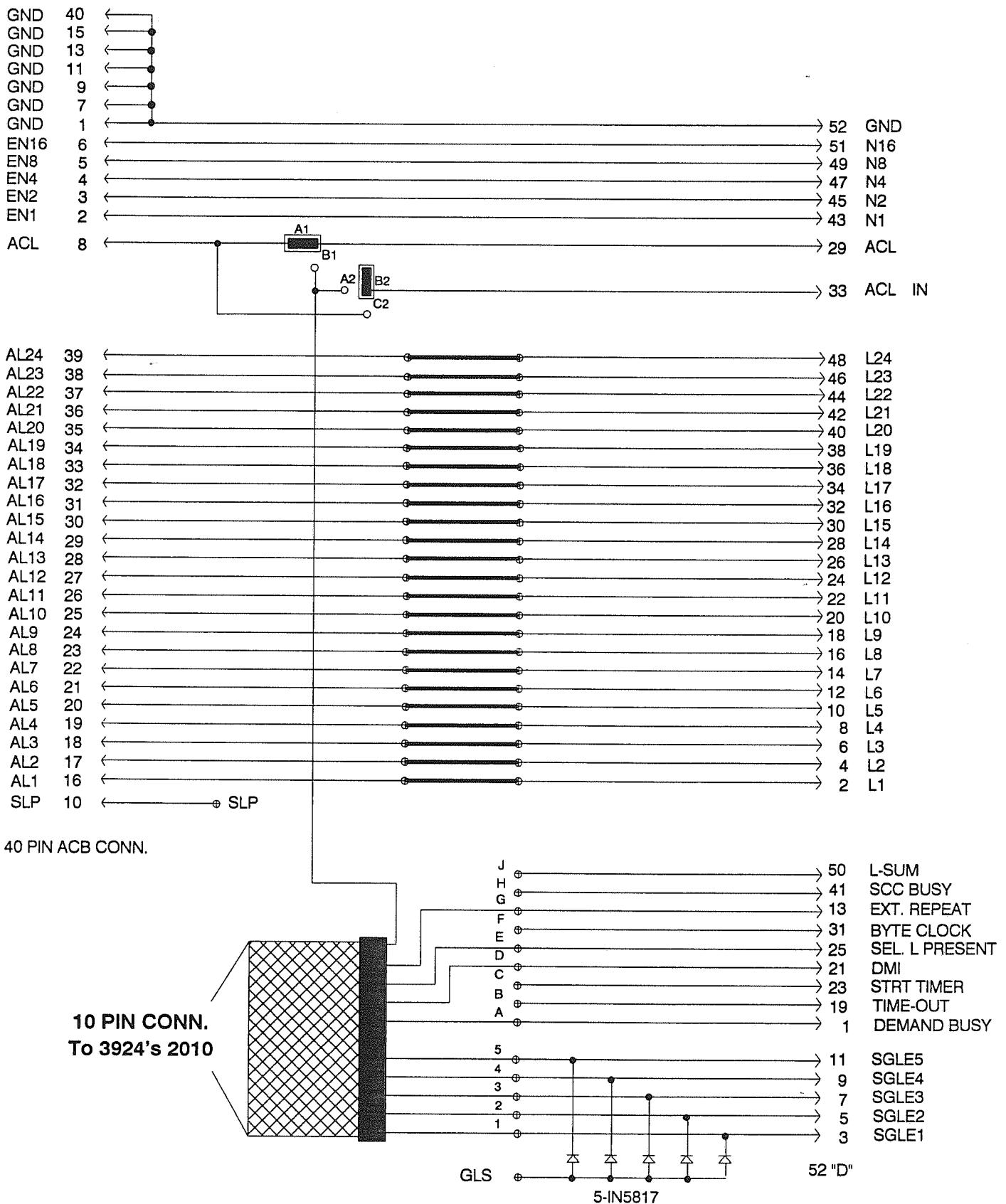


FIGURE 3a (3952/3924/ACC)

This configuration requires a 2010 on both the 3952 and 3924.
 The 3952's 2010 requires all LAM's to be Patched to the ACB. A separate 10 wire cable is used to carry signals generated by the 3924 to the 3952.

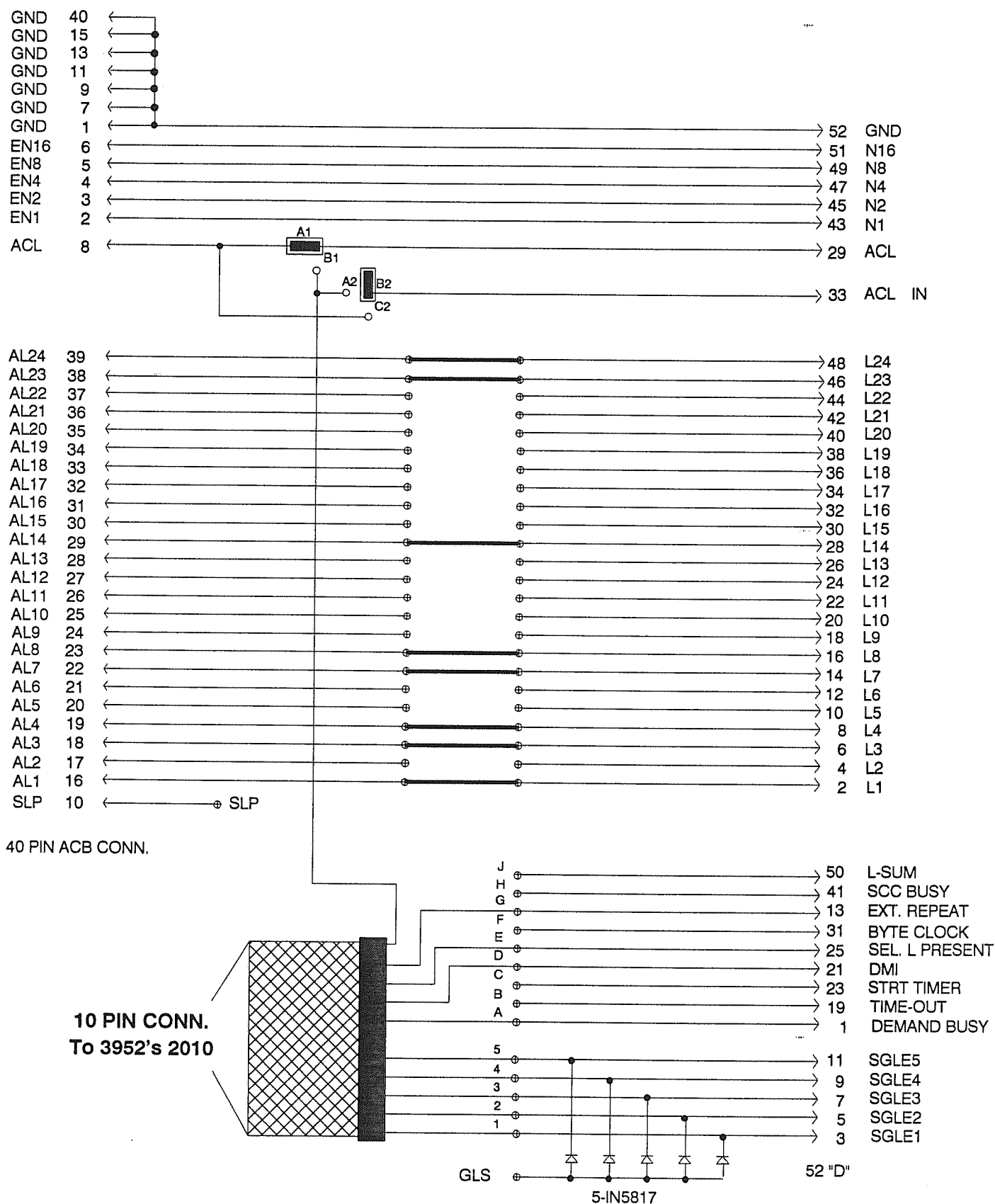


FIGURE 3b (3952/3924/ACC)

In this example the 3924's 2010 has only the LAM's which the 3952 will respond to Patched. All LAM's could be patched if needed. A separate 10 wire cable is used to carry signals generated by the 3924 to the 3952.

2012-Z1A Auxiliary Controller Position

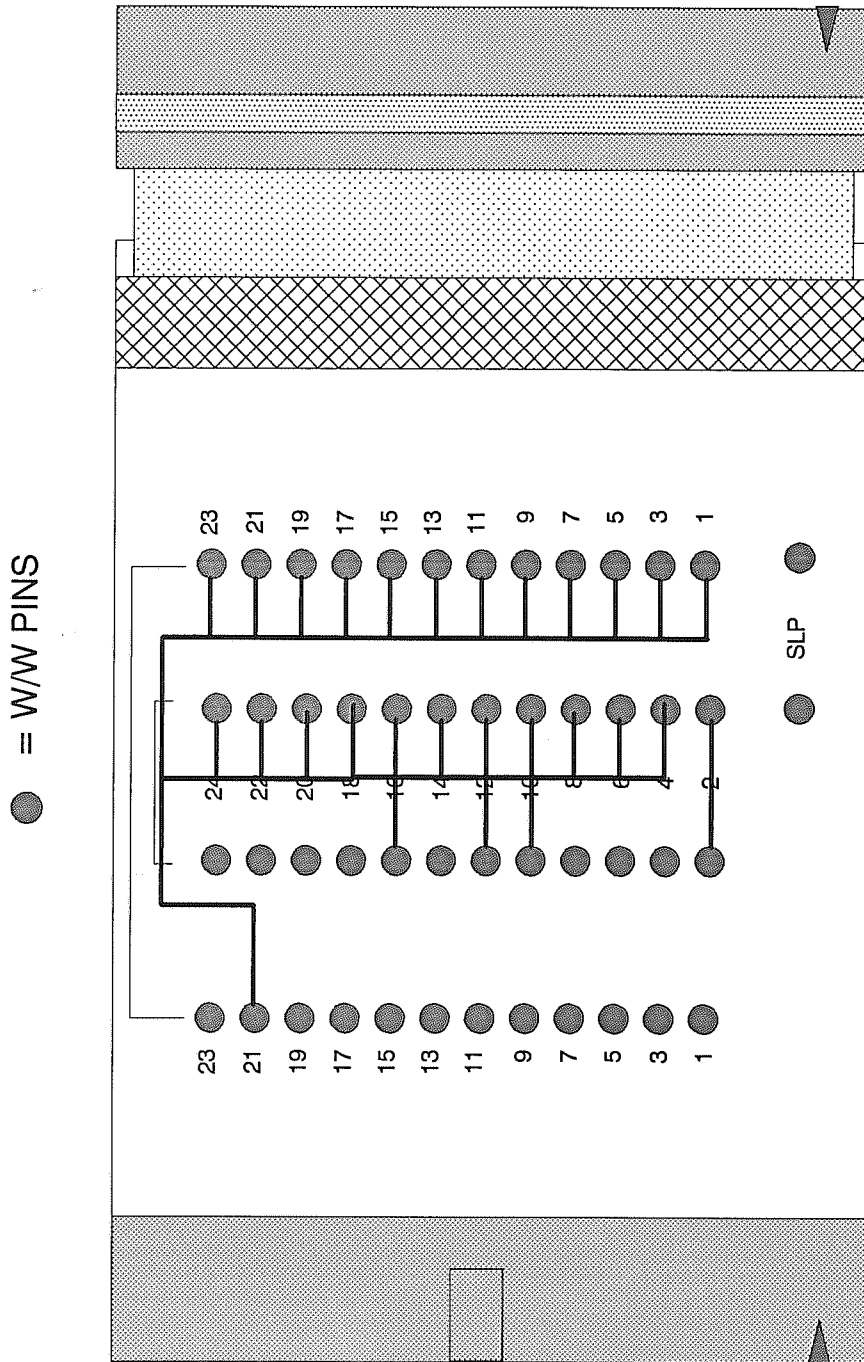


Figure 3c (Auxiliary Controller without LAM MASK Register)
 Selective LAM patching. In this case only the LAM's which the
 Auxiliary Controller will respond to are patched. All unused LAM's
 are tied to a LAM line that is not used by a module.

ACB Signal Name (even numbered pins)	Contact Number of 40 -contact ACB Connector (face view)	ACB Signal Name (odd numbered pins)
Ground	40 39	AL24
AL23	38 37	AL22
AL21	36 35	AL20
AL19	34 33	AL18
AL17	32 31	AL16
AL15	30 29	AL14
AL13	28 27	AL12
AL11	26 25	AL10
AL09	24 23	AL08
AL07	22 21	AL06
AL05	20 19	AL04
AL03	18 17	AL02
AL01	16 15	Ground
REQUEST INHIBIT (RI)	14 13	Ground
REQUEST (RQ)	12 11	Ground
CONDITIONALLY FREE (SLP)	10 09	Ground
ACL	08 07	Ground
ENCODED-N (EN16)	06 05	ENCODED-N (EN08)
ENCODED-N (EN04)	04 03	ENCODED-N (EN02)
ENCODED-N (EN01)	02 01	Ground