

LA-20 WIRING INSTRUCTIONS

POWER INPUT:

6- 13 Volt FILTERED D.C. power supply. If the power supply being used is less than 9 VDC then, R-30 must be cut out from the rear of the board. The LA -20 draws 305 mA in the standby mode and 545 mA if all alarms are activated.

ZONE INPUTS:

Zones can be wired as either N.C. or N.O. loops. Closed loop resistance should not exceed 1000 ohms.

NORMALLY CLOSED LOOP INPUTS:

The LA Annunciator is shipped with all of the input loops set up to be used as normally closed loops. To use a zone as a N.C. loop wire the LA as follows.

ZONE 1 - TB2 - 1 & 2	ZONE 5 - TB4 - 1 & 2	ZONE 9 - TB6 - 1 & 2	ZONE 13 - TB8 - 1 & 2	ZONE 17 - TB10 - 1 & 2
ZONE 2 - TB2 - 3 & 4	ZONE 6 - TB4 - 3 & 4	ZONE 10 - TB6 - 3 & 4	ZONE 14 - TB8 - 3 & 4	ZONE 18 - TB10 - 3 & 4
ZONE 3 - TB1 - 1 & 2	ZONE 7 - TB3 - 1 & 2	ZONE 11 - TB5 - 1 & 2	ZONE 15 - TB7 - 1 & 2	ZONE 19 - TB9 - 1 & 2
ZONE 4 - TB1 - 3 & 4	ZONE 8 - TB3 - 3 & 4	ZONE 12 - TB5 - 3 & 4	ZONE 16 - TB7 - 3 & 4	ZONE 20 - TB9 - 3 & 4

If a zone is not being used, then a jumper should be installed across it's input terminals or cut the open loop jumper for that zone.

NORMALLY OPEN LOOP INPUTS:

To use a zone as a N.O. loop, wire the LA as follows and cut the indicated jumper. (NOTE: TB11-4 = Vcc)

ZONE 1 - TB2-1 & TB11 - 4 CUT J1	ZONE 11 - TB5-1 & TB11 - 4 CUT J11
ZONE 2 - TB2-3 & TB11 - 4 CUT J2	ZONE 12 - TB5-3 & TB11 - 4 CUT J12
ZONE 3 - TB1-1 & TB11 - 4 CUT J3	ZONE 13 - TB8-1 & TB11 - 4 CUT J13
ZONE 4 - TB1-3 & TB11 - 4 CUT J4	ZONE 14 - TB8-3 & TB11 - 4 CUT J14
ZONE 5 - TB4-1 & TB11 - 4 CUT J5	ZONE 15 - TB7-1 & TB11 - 4 CUT J15
ZONE 6 - TB4-3 & TB11 - 4 CUT J6	ZONE 16 - TB7-3 & TB11 - 4 CUT J16
ZONE 7 - TB3-1 & TB11 - 4 CUT J7	ZONE 17 - TB10-1 & TB11 - 4 CUT J17
ZONE 8 - TB3-3 & TB11 - 4 CUT J8	ZONE 18 - TB10-3 & TB11 - 4 CUT J18
ZONE 9 - TB6-1 & TB11 - 4 CUT J9	ZONE 19 - TB9-1 & TB11 - 4 CUT J19
ZONE 10 - TB6-3 & TB11 - 4 CUT J10	ZONE 20 - TB9-3 & TB11 - 4 CUT J20

ZONE BYPASS INPUTS:

To use the zone bypass inputs, connect a N.O. switch between the indicated terminal and TB11 pin 6 (common). When the zone bypass switch is closed (bypass position) the zone will be deactivated (no alarms reported).

ZONE 1 - TB2-5	ZONE 5 - TB4-5	ZONE 9 - TB6-5	ZONE 13 - TB8-5	ZONE 17 - TB10-5
ZONE 2 - TB2-6	ZONE 6 - TB4-6	ZONE 10 - TB6-6	ZONE 14 - TB8-6	ZONE 18 - TB10-6
ZONE 3 - TB1-5	ZONE 7 - TB3-5	ZONE 11 - TB5-5	ZONE 15 - TB7-5	ZONE 19 - TB9-5
ZONE 4 - TB1-6	ZONE 8 - TB3-6	ZONE 12 - TB5-6	ZONE 16 - TB7-6	ZONE 20 - TB9-6

ZONE OUTPUTS:

Each zone provides an individual solid-state output which goes low on alarm. Each output will sink up to 100mA. To use a zone output wire between TB11-4 (Vcc) and the indicated I/O pin. The zone outputs follow the zone indicator.

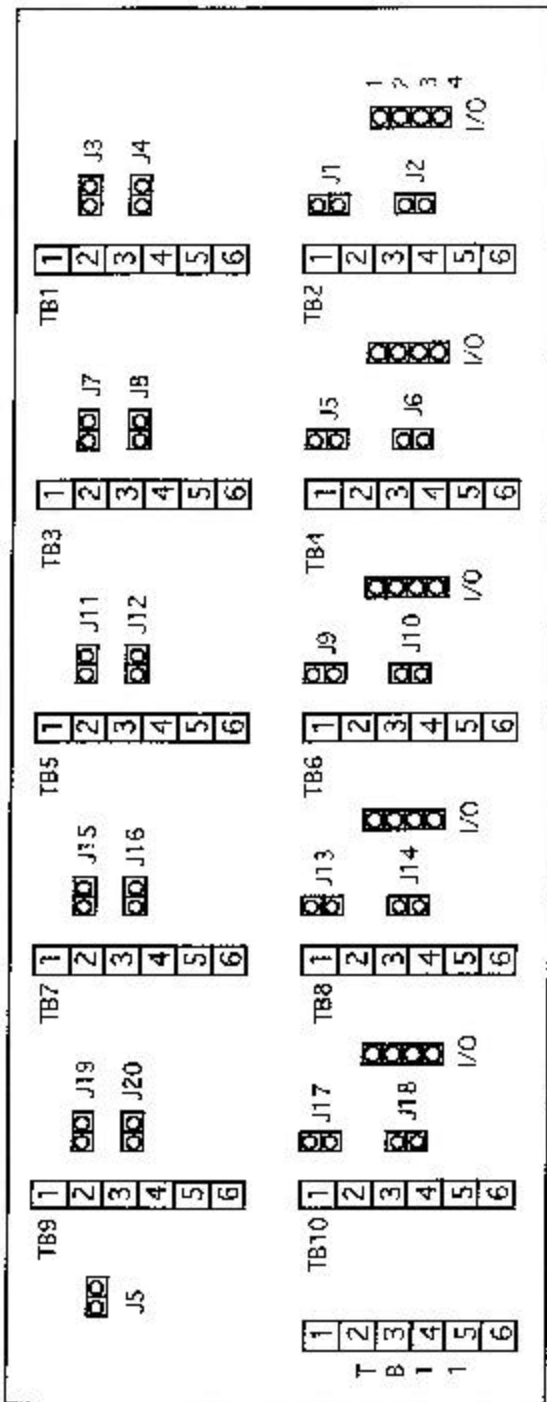
ZONE 1 - I/O 1	ZONE 5 - I/O 5	ZONE 9 - I/O 9	ZONE 13 - I/O 13	ZONE 17 - I/O 17
ZONE 2 - I/O 2	ZONE 6 - I/O 6	ZONE 10 - I/O 10	ZONE 14 - I/O 14	ZONE 18 - I/O 18
ZONE 3 - I/O 3	ZONE 7 - I/O 7	ZONE 11 - I/O 11	ZONE 15 - I/O 15	ZONE 19 - I/O 19
ZONE 4 - I/O 4	ZONE 8 - I/O 8	ZONE 12 - I/O 12	ZONE 16 - I/O 16	ZONE 20 - I/O 20

To use the zone I/O connectors simply place a wire (22 AWG) in the appropriate slot and push down with a small slotted screwdriver. Insure that the connector is placed on the pins with the proper wire going to the correct zone I/O.

TESTING:

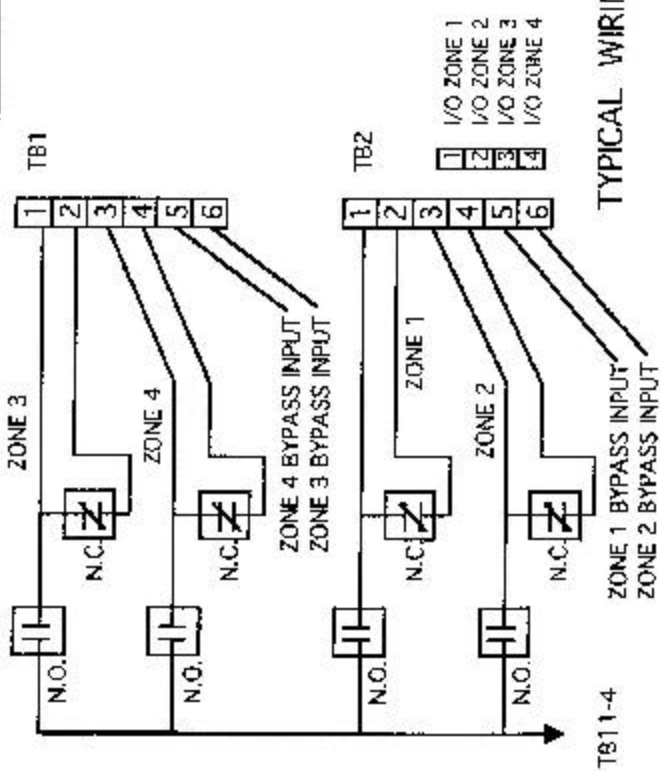
After the installation is completed each loop on the unit should be tested to insure proper operation. Also any options that have been set such as Auto/Ack, bypass inputs or individual zone outputs should be tested for proper operation.

LA-20 FIELD WIRING



- TB1 ZONES 3 & 4
- TB2 ZONES 1 & 2
- TB3 ZONES 7 & 8
- TB4 ZONES 5 & 6
- TB5 ZONES 11 & 12
- TB6 ZONES 9 & 10
- TB7 ZONES 15 & 16
- TB8 ZONES 13 & 14
- TB9 ZONES 19 & 20
- TB10 ZONES 17 & 18

- TB11-1 RELAY COM.
- TB11-2 RELAY N.C.
- TB11-3 RELAY N.O.
- TB11-4 N.O. CONTACT COM.
- TB11-5 + 12 VDC FILTERED
- TB11-6 - 12 VDC POWER SUPPLY



TYPICAL WIRING PER 4 ZONES