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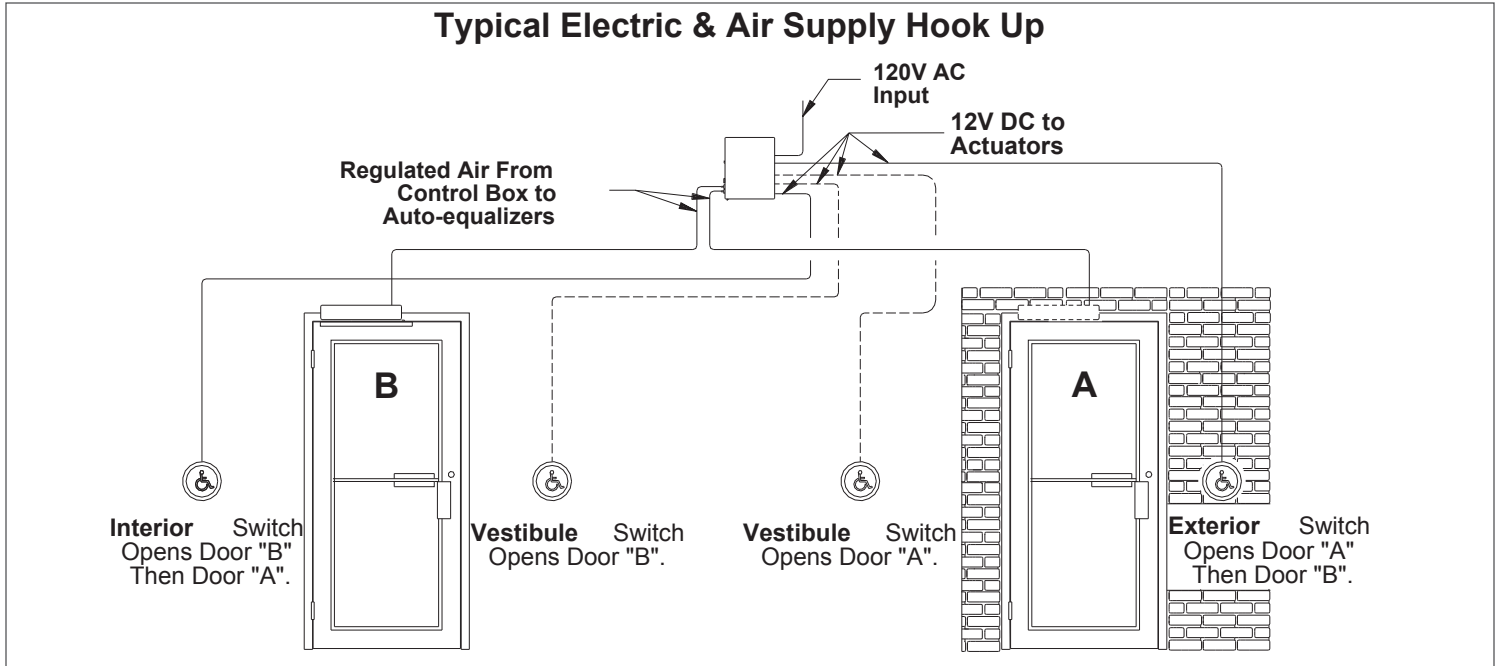
Model ES7982 SEQ



Control Box

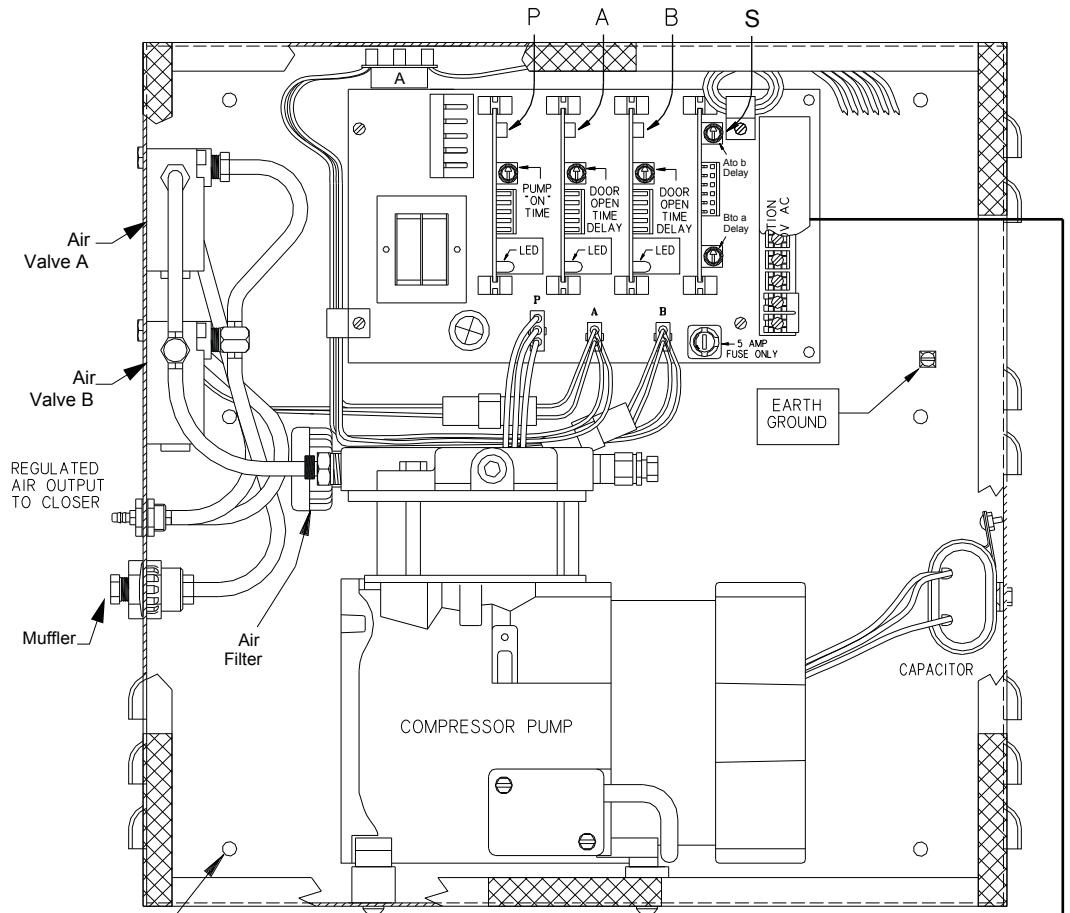
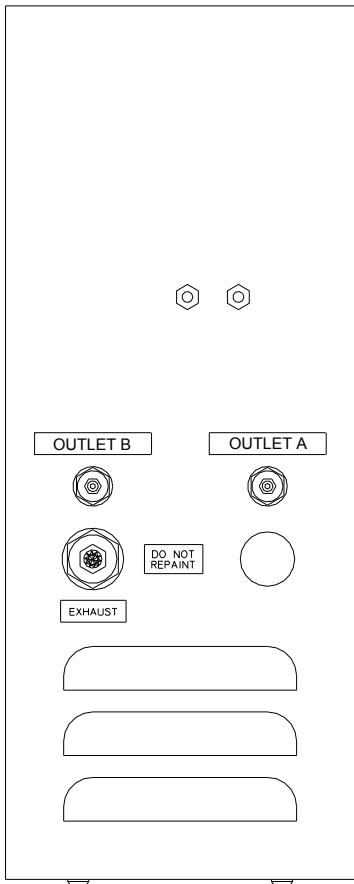
Installation Instructions

For closer information see closer installation instruction sheet.



Installation

<p>1a Locate box on interior of building within 50 tubing feet of the farthest door to be controlled. Box must be in a clean, dry, well ventilated place where temperatures do not exceed 120°F or fall below 35°F.</p>	<p>1g Adjust time delay to keep air valve energized by turning adjustment wheel on timer modules "A" & "B" (CW to increase - CCW to decrease). The LED (light) on the timer module indicates the valve is energized. The time can be adjusted from 0-30 seconds. 10 seconds is a "normal" delay.</p>
<p>1b Mount box to a structurally sound surface using screws provided as shown on page 2 with air fittings on left side as shown. Box must be in a clean, dry, well ventilated place where temperatures do not exceed 120°F or fall below 35°F.</p>	<p>ⓘ NOTICE: Timer Module "A" and "B" must operate longer than Timer Module "P".</p>
<p>1c Refer to instructions packed with actuators and connect leads to terminals 5 through 10 as required.</p>	<p>1h Adjust timer module "P" to keep compressor activated for the necessary amount of time to open the door. This can be done by rotating the adjusting wheel. (CW to increase - CCW to decrease). The LED (light) on the timer module indicates the compressor is energized. The compressor should not run more than 1-3 seconds longer than the time required to open the door.</p>
<p>1d Connect unpowered 120V AC input to terminals 3, 4, and ground screw. (Line side to terminal 3, neutral side to terminal 4 and ground wire to ground screw.) If door control is on a fire door, 120V AC input must be interrupted by the fire alarm panel when in alarm. When dry auxiliary fire alarm contacts are used, remove shunt from terminals 1 and 2 and connect to dry contacts of fire detector or alarm panel. Terminals 1 and 2 are in series with line side of 120V input.</p>	<p>1i When using sequential operation, adjust dual timer module "S" for desired delay between door operation. (CW to increase delay; CCW to decrease delay). Top timer delays "A" to "B" operation; the bottom timer delays "B" to "A" operation.</p>
<p>1e Turn on power. Air valves and compressor will operate one cycle when power is applied.</p>	<p>1j Test actuators to insure wiring and tubing are properly connected.</p>
<p>1f Air pressure output has been preset at factory. If more air pressure is required to adequately open doors, regulate air adjustment valve on pump, as shown on page 3.</p>	



CAUTION

Do not mount box upside Down or in horizontal Position. Locate where Temperatures do not Exceed 120°F or fall Below 35°F

CAUTION

Components inside control Box will be hot to touch Under normal operation. Allow box to cool down Before making adjustments.

WARNING



Hazardous voltage Can shock and Cause severe injury
Disconnect power before Making any electrical Connections or performing Maintenance.

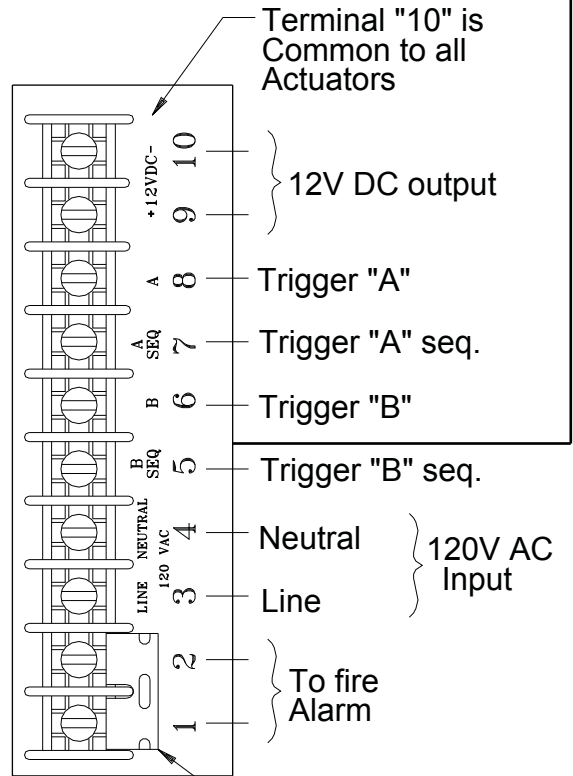
DANGER

Control box **MUST** be connected to earth ground

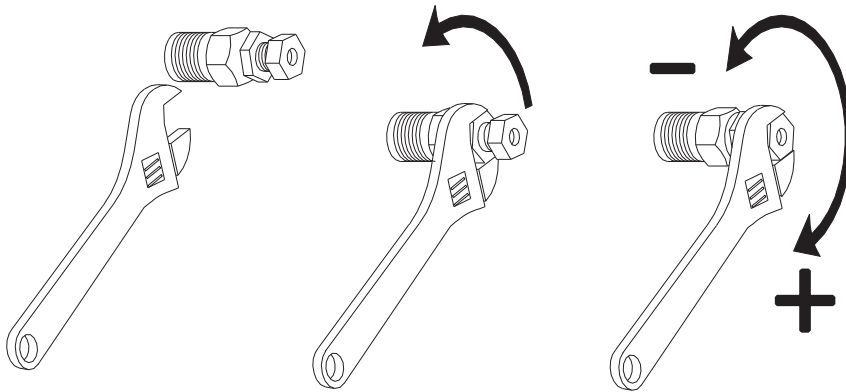
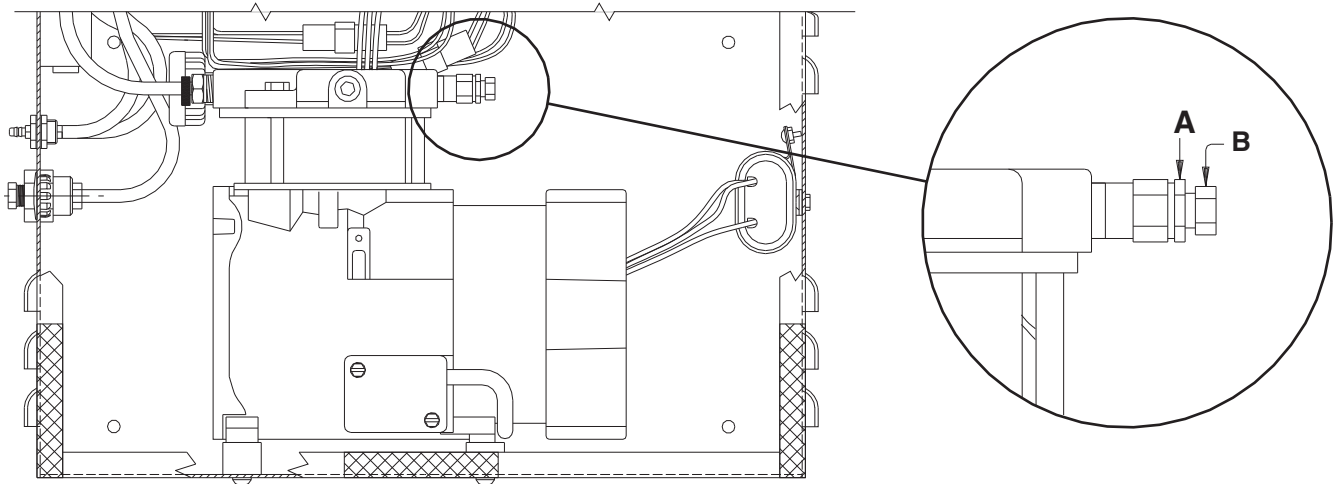
Install box with six tapcon Concrete screws 3/16 x 1 1/4 Drill 5/32 hole 1 1/4 deep With carbide tipped Concrete drill bit

Air filter should be Inspected every six Months.If filter is Damaged,contact Icn For replacement.

Electrical Data
Input = 120V AC @ 5 amps
Power consumption 600watts
Output is 12v dc (250 ma max.Load)



Air Pressure Adjustment



Air Pressure Adjustment

- 1a Loosen lock nut.(A)
- 1b Turn outer valve (B) to regulate air pressure.
- 1c Tighten lock nut.

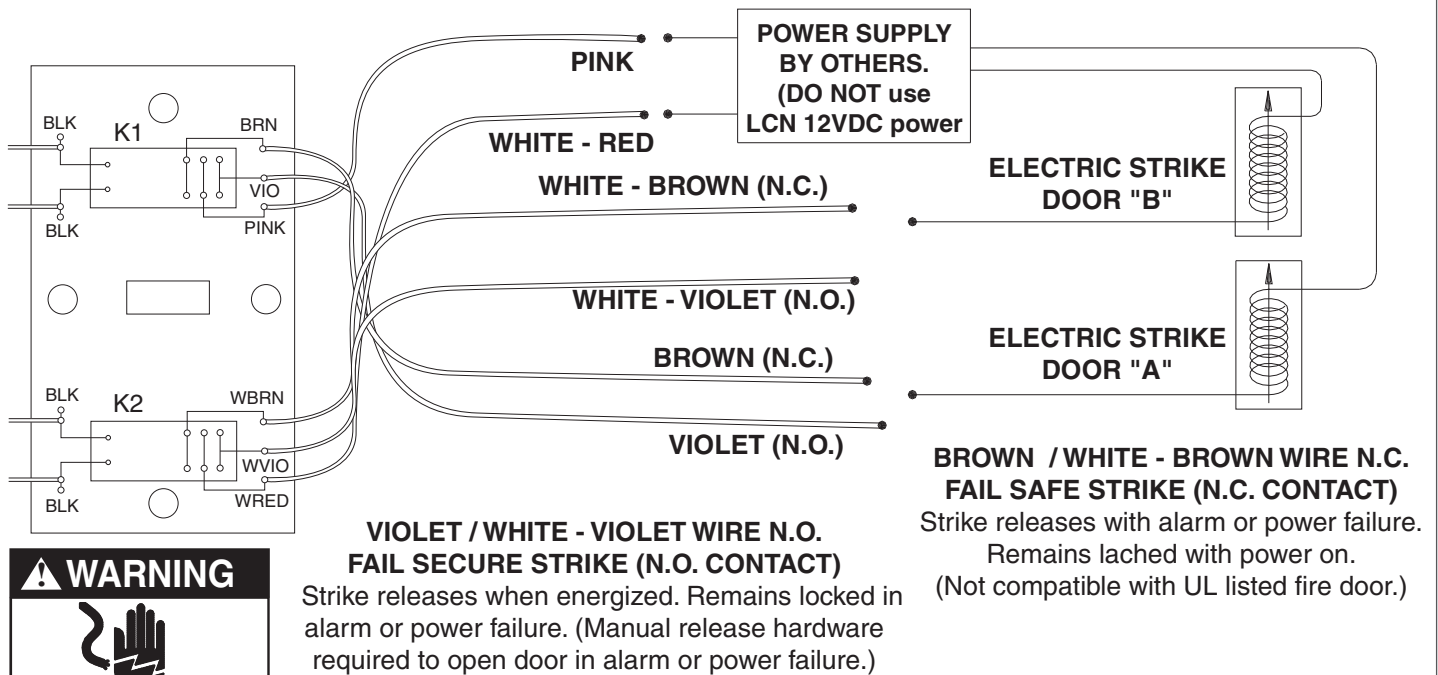
Installation Troubleshooting Chart

Symptom	Possible Cause	Suggested Remedy
No Power Opening	No power to control box / blown fuse	Verify 120VAC 60HZ power is present at terminals 3 & 4 on control box terminal strip. Check fuse. Replace only with 5 amp (3AG type) fuse.
	Actuator(s) not connected properly	Be sure a timer module board is firmly in place in "A", "B" & "P" slots. Timer card "S" must be in place for sequential operation. Operate actuator(s). LED on timer module should light when actuator is used. The LED on timer "P" should light whenever "A" or "B" is lit. If not, momentarily short actuator terminals 6 & 10 and 8 & 10 in the control box. If LED lights, check wiring to actuators for an open circuit. If it does not light, check for voltage at terminals 9 & 10. Voltage should read from 11.75 to 13.25V DC. If there is no reading, disconnect leads from terminals 9 & 10. Short actuator terminals 6 & 10 and 8 & 10. If LED lights, check for short circuit in actuators.
	Fire alarm system causing open circuit on terminals 1 & 2	Shunt terminals 1 & 2 with power off. Restore power. If control operates when actuator terminals in the control box are shorted, an open circuit exist in wiring to fire alarm. When Auto-Equalizer is not used with fire alarms, terminals 1 & 2 must be permanently shorted with a shunt. IMPORTANT! When Auto-Equalizer is connected to fire alarm, make sure shunt is removed from terminals 1 & 2. Terminals 1 & 2 are one leg of 120V line.
	No input to Auto-Equalizer operator	Disconnect tubing from Auto-Equalizer operator. Try actuator and verify that air is coming out of tubing. If not, trace tubing to control box, checking for breaks or kinks in air line.
	Air lines obstructed with dirt or ice.	Clean or thaw lines and reroute if necessary. Eliminate dips near cold zones.
	Air valves not working	Make sure air valve leads are plugged into main board. (Be sure valves in system are plugged into connectors "A" & "B".)
	Compressor not working	Make sure compressor leads are plugged into main board. (Be sure compressor is plugged into connector "P").

Symptom	Possible Cause	Suggested Remedy
Does not open or fully open	Control box exhaust restricted.	Exhaust muffler may be clogged by dirty air or accidental painting. Clean in alcohol or mineral spirits.
Opens too slow or not at all	Inlet filter clogged	Replace filter element (Contact LCN for replacement)
Power opening will not time out.	Scanner maintaining signal to control box.	Make sure lenses are clean and there are no obstructions in front of scanner. Adjust range as described in scanner instructions.
	Switch circuit maintaining contact.	Check for short circuit or error in wiring to switch or scanner.
	Air valve blocked open with contaminant.	Cycle valve several times by momentarily shorting actuators in the control box. This should clear valve.
Power opening timing out too soon.	Air compressor needs readjustment.	See page 3 for regulation instructions.
	Timer cards not set properly	Set timer cards "A" & "B" for Max. time. Set timer card "P" for Min. time. Slowly increase card "P" until "time-out" is 1-3 seconds after door is fully open. Decrease timer card "A" & "B" to achieve desired time delay before closing. (Make sure "P" times out before "A" & "B".)

MODEL ES7982 SEQ FOR USE WITH ELECTRIC LATCHING HARDWARE

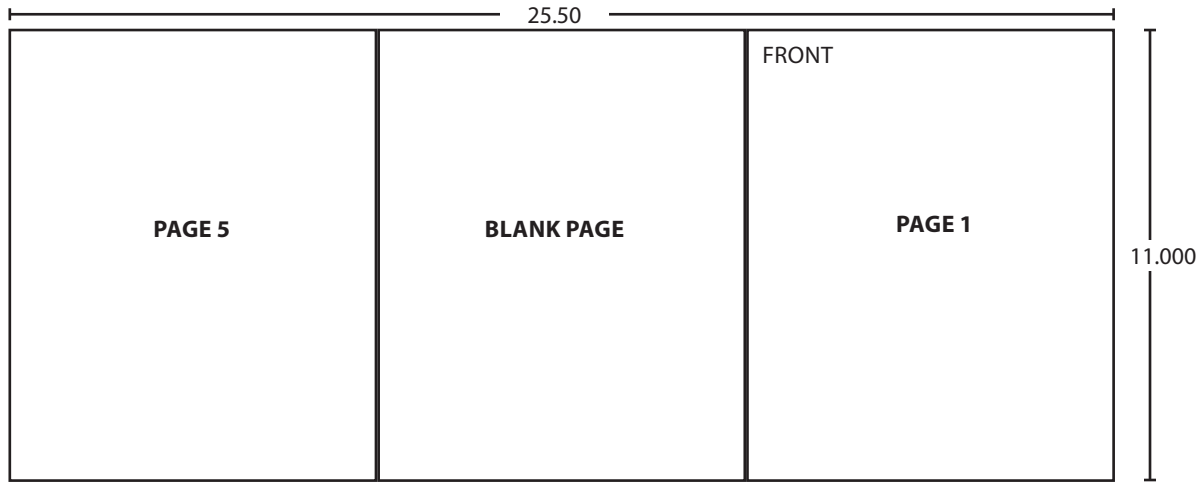
ES7982 SEQ - 2 electric strikes maximum



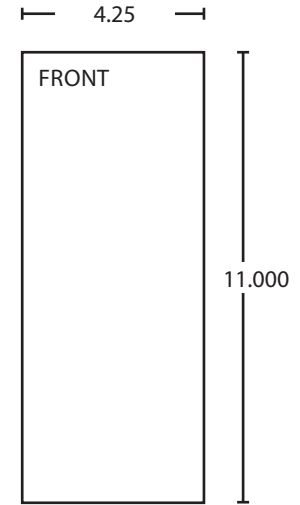
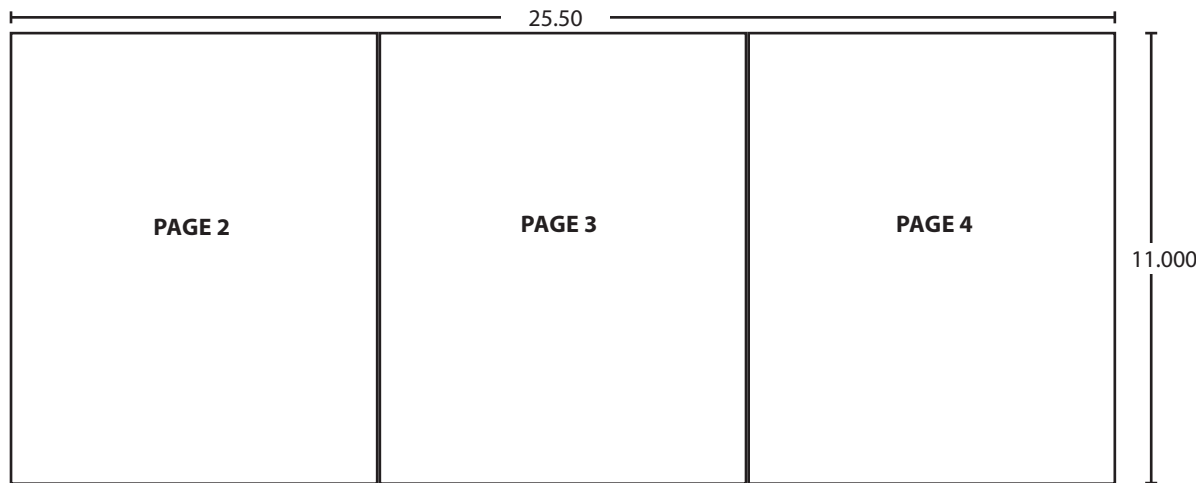
WARNING

HAZARDOUS VOLTAGE CAN SHOCK AND CAUSE SEVERE INJURY

Disconnect power before making any electrical connections or performing maintenance.



BEGINNING SHEET



FOLDED SHEET

Additional Notes:
1. None

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