# ⚡ AIPHONE

LA-*n*AS

Add-on selectors for the LAF-C/E Console masters.
LA-20AS, 20-call   LA-40AS, 40-call

- INSTRUCTIONS -

The LA-20AS and LA-40AS add-on selectors are designed to function with LAF-C Console Masters, Type "E" or later. Multiple add-on selectors can be added to a master station along with a variety of sub stations to create a communication system tailored to a user's needs. All standard LAF and LEF system accessories can be used in conjunction with the add-on selectors.
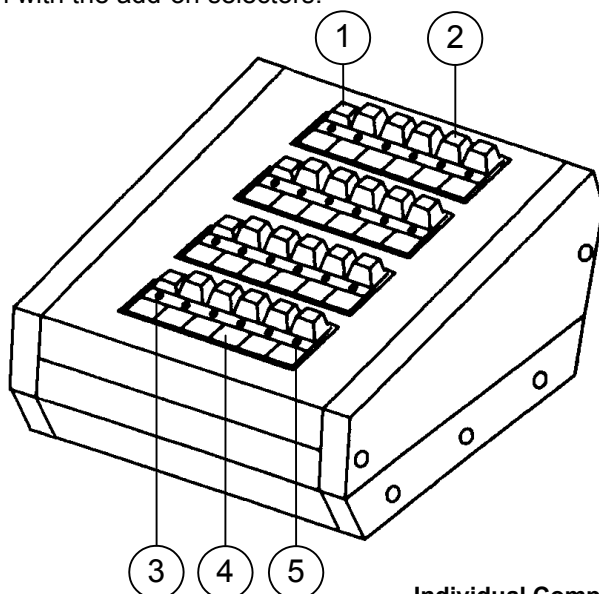
NAMES & FUNCTIONS:
1. OFF button
2. Selector button
3. OFF LED
4. Directory card
5. Station selector LED

L-nAS TERMINAL DEFINITIONS:
+	Positive 12V DC
-	Negative
1~40	Station number
E	Common communication

Individual Components for System:
LAF-*nC*	Console type master (20, 40 call capactiy)
LAF-*nCA*	Console type master w/handset (20, 40 call capactiy)
LA-20AS	20-call Add-on Selector
LA-40AS	40-call Add-on Selector
PS-12C	12V DC, 1A Power Supply
BG-10C	All Call, Chime and music adaptor. (1 required per 10 stations)
PS-12F	12V DC, 2.5A Power Supply (1 Required per BG-10C)
LS-NVP/B	Vandal proof sub station (flush mount)
SBX-NVP	Surface mount box for LS-NVP
LE-series	Any model sub station with LE- prefix

SPECIFICATIONS:
Power Source:	12V DC at master. Use PS-1225UL. (Use 1 PS-1225UL per BG-10C when included.)
Communication Output:	800mW at 20 ohms (receive); 500mW at 20 ohms (transmit)
Communication:	Push-to-talk, release-to-listen (TALK button), or VOX handset at master. Hands free at sub station.
Calling:	Master to sub or other master: By voice (TALK) or tone (TALK & ALL CALL simultaneously)
	Sub to master: Call button on sub activates tone and LED at master, remaining lit for approximately 20 seconds.
Wiring:	2 conductors homerun to sub station (1-Master system only), 3-conductor, or loop multi-conductor with 2 common + 1 individual wire per sub station on wire run.
	Shielded cable is recommended.
	Use Aiphone #822202, 2 cond. 22AWG; #821802, 2 cond. 18AWG or #822203, 3 cond. 22AWG; #822206, 6 cond. 22AWG. LA-nAS to ea. BG-10C: Aiphone #822220, 20 cond. 22AWG.
Wiring Distance:	650' with 22AWG; 1,600' with 18AWG.
Dimensions:	LA-20AS: 10-1/4" x 7" x 5-1/2".
(H x W x D)	LA-40AS: 10-1/4" x 12-7/8" x 5-1/2".

WIRING DIAGRAM:

LE-DA   LA-40AS   LAF-20CA   LE-D   LE-D   LE-D

LA-40AS: 1, 2, 3, ~, 40, E, -

LAF-20CA: 1, 2, 3, ~, 20, E, -, R

LE-DA: 1, E, -

LE-D: 1, E, -

Color	Terminal
Blk	X1
Yel	X2
Org	X3
Gry	X4
Brn	X5
Red	X6
Wht	X7
Grn	X8

← Wiring from Add-on Selector

PS-12C: +, -

LAF-20CA: +, -

NOTE:
LA-20AS wires the same as shown here.

WIRING NOTE:
The following sub stations are wired as shown above:
· LE-A, LE-AN
· LE-B, LE-BN
· LE-D, LE-DA
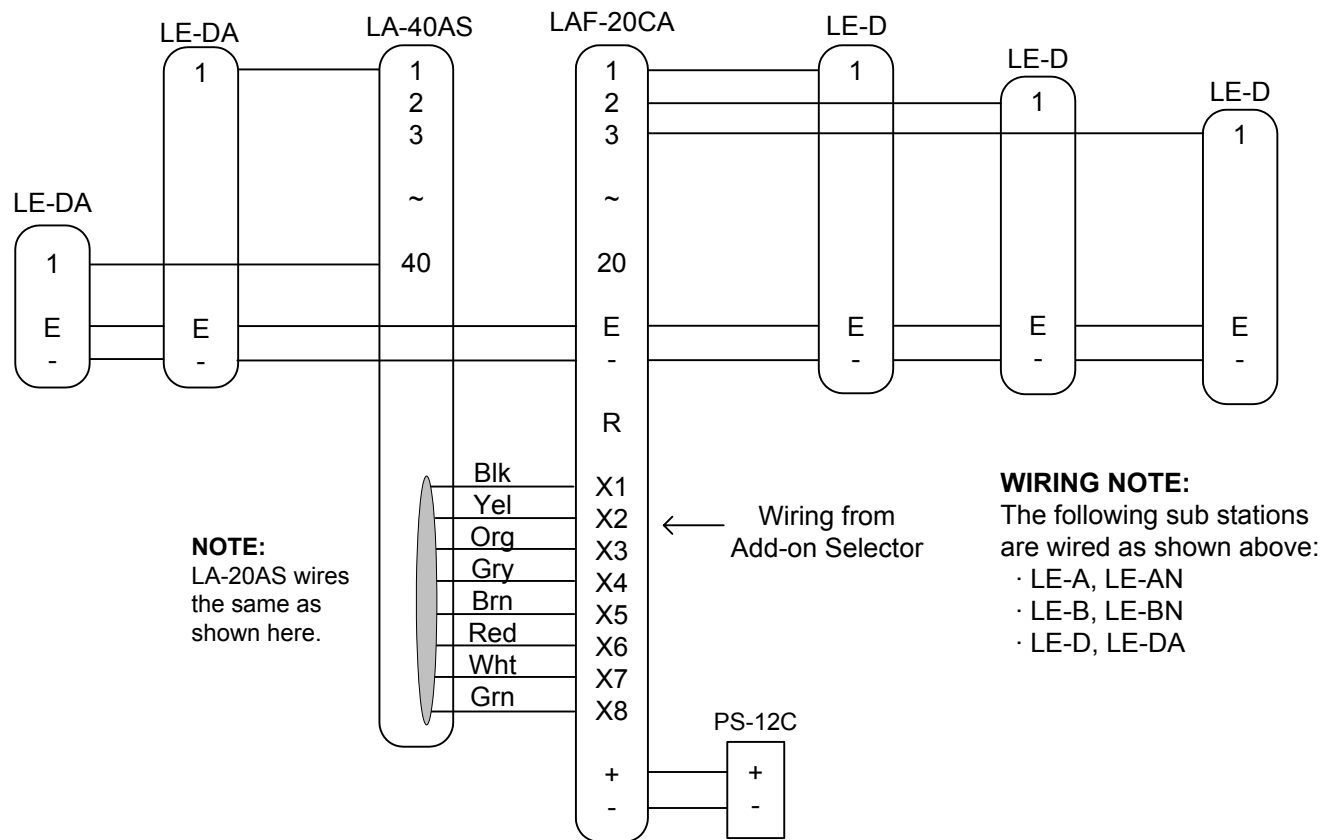
CAUTION
* Do not connect any AC wires to any terminal on any unit, as fire or unit damage may occur. Connect only specified power source on +, - terminals.
* Do not install more or different power sources than specified for the system.
* Do not attempt to install or connect wires on LAF-C system while the system's power supply is plugged in.
* L-nAS add-on selectors and related equipment, unless specified as "weather resistant", are designed for indoor use only. Door stations (LE-D, LE-DA, LE-DL, LS-NVP) may be installed outdoors.

IMPORTANT
* There is no need to disassemble the equipment for installation. Do not access the PC boards inside the units unless
  properly qualified.
* Any other manufacturer's products installed with the system (power supply, external signalling device, etc.) are not covered under Aiphone's warranty.
* Do not mount L-nAS equipment in the following places, as it may cause the system to malfunction:
    - High or extreme cold temperature areas: under direct sunlight, near equipment that varies in temperature, in front of air conditioner, inside a refrigerated area, etc.
    - Places subject to moisture or humidity extremes.
    - Places subject to environmental conditions, such as dust, oil, chemicals, salt, etc.
* L-nAS units are electronic devices, which must not be subjected to water or any other liquid.
* Severe weather conditions, such as lightning storms, may cause damage to LAF-C equipment. We recommend that power surge protection be installed to minimize potential component level damage.
    - Additional SA-1 surge arrestors should be installed on all communication lines (one SA-1 for every two wires connected to master.) See SA-1 instructions for further information.

For additional information about this system, please refer to the LAF-C instructions.