AIPHONE

Special Order Products

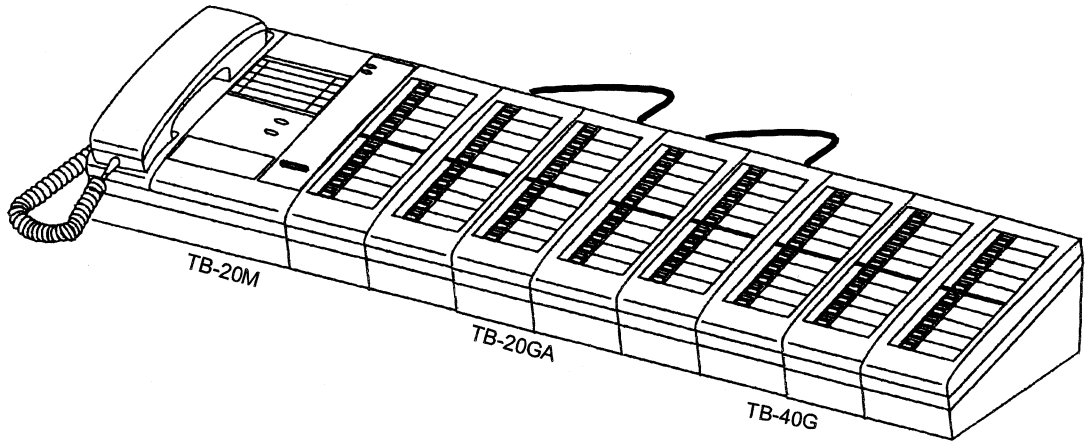
TB-20GA

20 Call Add-on Selector Modified for an Additional Add-on Selector

- SUPPLEMENT TO TB-M INSTRUCTIONS -

The TB-20GA add-on selector is designed to function with the TB-M Internal Phone System to allow a second add-on selector to be connected. A system with a maximum of 80 stations may be configured with this unit. All standard TB-M system accessories can be used in conjunction with the add-on selectors.

SYSTEM LAYOUT:
80 station TBM system
(TB-20M with TB-20GA and TB-40G)



Individual Components for System:

TB-*n*M	Master station (10, 20)
TB-*n*G	Add-on selector (20, 40)
TB-SE	Handset sub station
PS-18YC/A	18V DC, 1.2A Power Supply (For Audio Systems)
PS-18C	18V DC, 2A Power Supply (For Audio/Video Systems)
TB-AD1	1 Audio Door Adaptor
TB-AD10	10 Audio Door Adaptor
TB-ADM10	10 Video Door Adaptor
TAR-3	External signaling relay
SKK-620	6V DC, 200 mA power supply for TAR-3

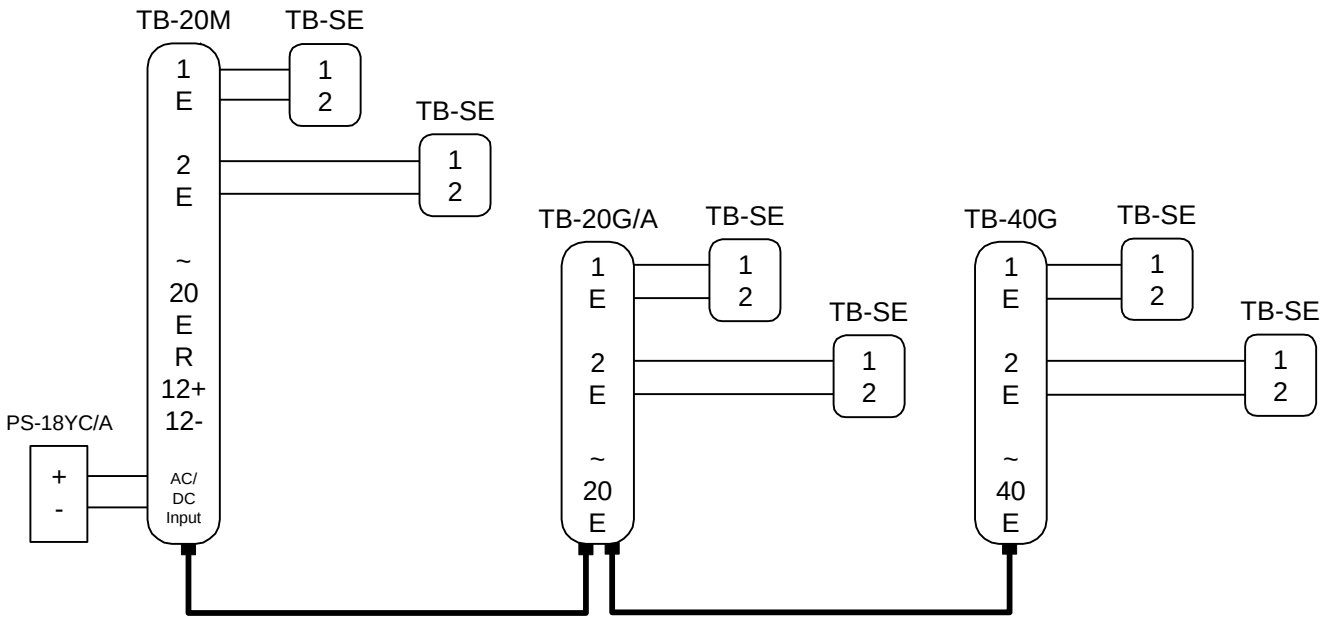
TB-M TERMINAL DEFINITIONS:

+	Power input (18V DC or 16V AC)
-	Negative
1~40	Station number
E	Common communication
M,C	Master-to-Master communication
T	Transmit to door station
R	Receive from door station
S, S	Output to call extension speaker or relay

SPECIFICATIONS:

Power Source:	18V DC, 350 mA or 16V AC, 750 mA. Use PS-18YC/A (Audio only system) or PS-18C (Audio Video system).
Consumption:	6W max. 3W (standby)
Calling:	TB-SE sub's call-in is annunciated with intermittent tremolo tone and a red LED, both of which will continue until the call is answered or the TB-SE is replaced on it's cradle. Door station call-in is annunciated with intermittent tremolo tone and a red LED both of which will continue for approximately 40 seconds.
Communication:	Master to TB-SE: Simultaneously by handset Master to door station: Simultaneous. Master uses handset, door station is hands free.
Wiring:	2 conductors homerun from TB-SE to master 2 conductors homerun from door station to adaptor 5 conductors TB-*n*M to TB-AD1 14 Conductors TB-*n*M to TB-AD10 14 conductors TB-*n*M to TB-ADM10, Plus 6 conductor TB-ADM10 to MYH-CU

WIRING DIAGRAM: TB-M SYSTEM CAPABLE OF 80 SUB STATIONS



OPERATION (Answering a call):

* POWER SWITCH ON THE BACK OF THE MASTER MUST BE ON FOR SYSTEM TO BE OPERABLE.

1. When a sub station calls in, pick up the handset and press the selector button corresponding to the lit LED.
2. Speak to the person at the remote station through the handset. The person at the remote station speaks into their handset or may speak handsfree through door stations.
3. When the conversation is completed, hang up the handset.

OPERATION (Transfering a call):

1. Answer the incoming call from the TB-SE. (Door station calls are not transferable).
2. Select the TB-SE that you want to transfer the call to.
3. After transferee answers the master's incomming call, press the "TRANSFER" button.
4. Reselect the original sub station. All three parties are on the line (Original TB-SE, transferee TB-SE and master)
5. The master may hang up, and the people on the TB-SE's can talk.

For additional information about this system, please refer to the TB-M instructions.

CAUTION

* Do not connect any incomming AC wires to any terminal on any unit, as damage may occur. Connect only specified power source to + and - terminals.
* Do not install more or different power sources than specified for the system.
* Do not attempt to install or connect wires on the TBM system while the system's power supply is plugged in.
* TBM masters and related equipment, unless specified as "weather resistant", are designed for indoor use only. Door stations (IF-DA, IE-JA,) may be installed outdoors in a protected area. Do not expose any equipment directly to rain or extreme weather conditions.

IMPORTANT

* Any other manufacturer's products installed with the system (power supply, external device, etc.) are not covered under Aiphone's warranty.
* Do not mount TBM 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.
* TBM 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 TBM equipment. We recommend that power surge protection be installed to minimize potential component level damage.
  - Install the SA-1 surge arrestor to protect the power supply from a surge.
  - Additional SA-1 surge arrestors should be installed on all communication lines (one SA-1 for every two connected to master.).

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