



RPM-2, RPM-4, RPM-8, RPM-12

RPM-12 (with relays installed)

**RLM-24
RLM-24-5**

(Hold Down Spring)

FEATURES

- Modular Design Provides Configuration & Expansion Flexibility
- Choose From Four Chassis Models
- Select 3 Amp or 5 Amp 24 VDC Relays
- Easy to Install Relay Chassis

APPLICATIONS

Atlas Sound's RPM / RLM Series is a modular relay pak line which offers configuration flexibility in reference to number of relays, relay type, and built-in expansion. This Series consists of four basic chassis models (RPM-2,-4,-8,-12) and two types of plug-in relays (RLM-24, RLM-24-5).

Modular units are ideal for application where a 24 VDC, DPDT relay is required, including institutional, industrial, corporate, and manufacturing facilities, where zone paging, back-ground music, intercom, and telephone systems are used.

Models RLM-24 and RLM-24-5 are 24 VDC plug-in relays equipped with three, and five amp contacts, respectively. The RLM-24 is commonly used for switching low level circuits (1 mA minimum to 3 Amp maximum) with virtually no long term oxidation problems. Model RLM-24-5 is used for switching higher currents (500 mA minimum to 5 Amp maximum).

DESCRIPTION

Chassis Models RPM-2,-4,-8, and -12 have provisions for 2,4, 8, and 12 relays respectively. One side of each relay coil is terminated on same terminal, eliminating the need for bussing. These units have painted steel chassis with rugged fiberglass printed circuit boards. All relay contacts are clearly silk screened on each PC board for easy circuit wiring, and are terminated on barrier-type screw terminals to prevent accidental shorting. Chassis are equipped with insta-mount tape for quick and easy installation on most surfaces.

Relay Model RLM-24 has fine silver, gold-plated contacts, while Model RLM-24-5 features silver-cadmium oxide contacts. Both ship complete with Atlas Sound's hold down spring.

Relay chassis and relays are ordered separately so unused chassis sockets can be saved for future expansion.

FIVE

| RELAY PACK CHASSIS MODULES | | |
|----------------------------|-----------------------|--|
| MODEL | RELAY SOCKET QUANTITY | SIZE |
| RPM-2 | 2 | 4 3/4" L x 3 1/8" W x 1 1/16" H* (121 x 79 x 24mm) |
| RPM-4 | 4 | 5 1/2" L x 4 3/4" W x 1 5/16" H* (140 x 121 x 24mm) |
| RPM-8 | 8 | 10 1/4" L x 4 3/4" W x 1 5/16" H* (273 x 121 x 24mm) |
| RPM-12 | 12 | 15" L x 4 3/4" W x 1 5/16" H* (381 x 121 x 24mm) |

*Chassis height only. Add 1-5/16" for plug-in relay (2.25" total).

| PLUG-IN RELAYS (Ordered Separately) | | | | |
|-------------------------------------|------|--------------------------|-----------------|---------|
| MODEL | TYPE | CONTACT MATERIAL | CONTACT RATING | POWER |
| RLM-24 | DPDT | Fine Silver, Gold Plated | 1 mA to 3 Amp | 24 VDC |
| RLM-24-5 | DPDT | Silver-Cadmium Oxide | 500 mA to 5 Amp | @ 35 mA |

Specifications subject to change without notice

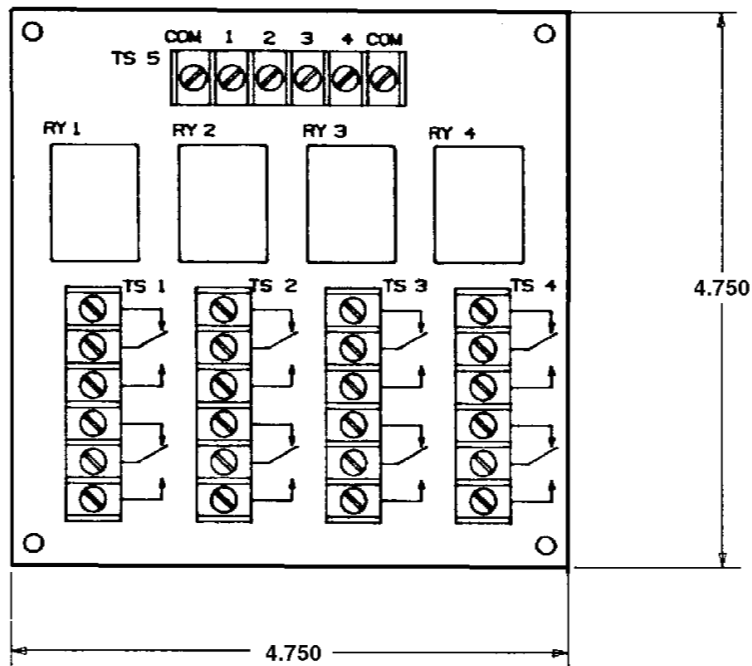


ARCHITECT AND ENGINEER SPECIFICATIONS

The relay assemblies shall consist of Atlas Sound Model [RPM-2 (-4,-8-12)] Relay Pak Chassis with Model _____ [RLM-24 (RLM-24-5)] plug-in relays. Relays shall be completely enclosed for mechanical protection and dust free operation. Each relay shall terminate on a screw-type barrier strip for accidental short prevention. The relays shall be 24 VDC, DPDT. Model RLM-24 shall

have fine-silver, gold-plated contacts. Model RLM-24-5 shall have silver-cadmium oxide contacts. Relay circuit connections shall be silk screened on Relay Pak chassis for ease of circuit wiring. Chassis shall be plated steel and include pressure sensitive tape for instant mounting and fiberglass PC board for relay sockets and termination.

TYPICAL WIRING DIAGRAM
(RPM-4 Chassis Layout Shown)



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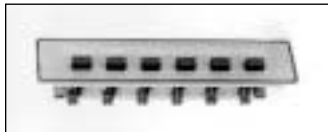


MODULAR PAGING COMMUNICATIONS CENTER

MPC Series



MPC-112B



MPC-6SWA

FEATURES

- Cost-Efficient Control Center for Zone Paging* and General Input or Output Switching Applications
- Modular Construction and Choice of Wiring Configurations Allow Custom Flexibility Using Standard Components
- Convenience of Individual Modules or Factory-Assembled Configurations
- Attractive Slope-Front Styling and Neutral Finish Complement Any Decor

APPLICATIONS

Modular communications center is an attractively styled input/output switching accessory designed for a variety of zone paging* and communications applications. As an output device, the control center is used to activate specific loudspeakers for selective zone paging in restaurants, reception areas, professional offices, health clubs, production and customer service departments. As an input device, MPC Series will switch selected components (microphone, tape deck, etc.) into a sound or communications system.

GENERAL DESCRIPTION

The MPC Paging Communications Center is a modular switching system offered as factory-assembled consoles with 6 or 12 DPDT-style pushbutton switches or as individual chassis and switch modules. Chassis are heavy-gauge CRS with neutral 'computer' grey finished housing and side panels. Switch modules are mounted to a 22-gauge CRS plate finished in neutral grey enamel and covered with a polycarbonate overlay with pockets for switch identification (label strips provided).

FACTORY-ASSEMBLED COMMUNICATION CENTERS

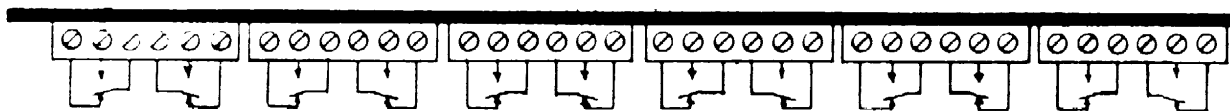
MPC-106B / MPC-112B. DPDT-style assemblies with 6 and 12 switches, respectively, are ready to be wired for an unlimited variety of input or output switching applications. Control center is also ideally suited to provide switching capability to an existing paging system or for wiring to an Atlas Sound PSR Series powered relay pack to construct a stand-alone paging system. Model MPC-106B ships complete with the housing, 6-switch module (MPC-6SWA), and blank panel (MP-1B). Model MPC-112B includes the housing and two 6-switch modules (MPC-6SWA).

| MODEL | SWITCHED | CONTACTS | | TERMINATIONS | SIZE W x H x D |
|----------|-----------|----------|--------|------------------------------|--|
| | | MATERIAL | RATING | | |
| MPC-106B | 6 / DPDT | Silver | .5 | Captive Terminal Assembly | 9¾" x 8½" x 4¼" (248 x 206 x 108mm) |
| MPC-112B | 12 / DPDT | Plated | Amp | | |

INDIVIDUAL MODULE COMPONENTS

MPC-6SWA. Switch module assembly installs into housing Model MPC-102 (described on back side) and includes six independent DPDT pushbutton switches for customized applications. Captive screw terminals and components are mounted to a 22-ga. CRS plate finished in neutral grey enamel. Plate includes attractive polycarbonate overlay with label pockets for switch identification (label strips provided).

TERMINAL DIAGRAM



* Standard MPC units must be modified for zone paging using jumper wires. Refer to SL5-1506.

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FIVE



MPC-102A



MP-1B

INDIVIDUAL MODULE COMPONENTS (cont.)

MPC-102A. Modular desk-top console housing will accept two switch modules and/or blank panel components. Housing is complete with 18-ga. CRS chassis finished in neutral grey enamel. Factory -mounted side panels are 11-ga. CRS finished in neutral grey enamel. Wiring-access holes are provided at rear of chassis and include protective plastic bushings.

MP-1B. Optional blank panel is offered to cover one unused port in the system console.

ARCHITECT AND ENGINEER SPECIFICATIONS

Factory Assemblies. Modular paging communications center shall be Atlas Sound Model _____ complete with (6, 12) DPDT-style pushbutton switches. Model MPC-106B shall include housing, 6-switch module Model MPC-6SWA, and blank panel Model MP-1B. Model MPC-112B shall include housing and two 6-switch module Models MPC-6SWA. Chassis shall be constructed of heavy-gauge CRS with an neutral grey finished housing and neutral grey finished side panels. Switch modules shall be mounted to a 22-ga. CRS plate finished in neutral grey enamel and covered with neutral grey polycarbonate overlay with pockets for switch identification. Label strips shall be provided.

Individual Model Components. Switch module assembly shall be Atlas Sound Model MPC-6SWA. Unit shall include six DPDT-style pushbutton switches and mount into housing Model MPC-102A. Captive screw terminals and components shall be mounted to a 22-ga. CRS plate finished in neutral grey enamel. Plate shall include neutral grey polycarbonate overlay with label pockets for switch identification. Label strips shall be provided. Model MPC-102A shall be complete with 18-ga. CRS chassis finished in neutral grey enamel. Side panels shall be 11-ga. CRS finished in neutral grey enamel. Wiring access holes shall be provided at rear of chassis and include protective plastic bushings. Optional blank panel Model MP-1B shall be used to cover any unused port on the system console.

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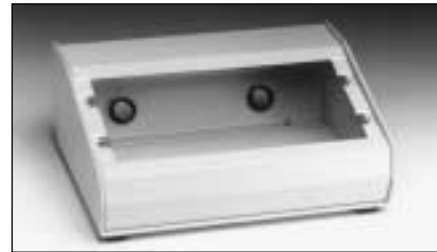
GENERAL INSTALLATION AND MODIFICATION INSTRUCTIONS

The Atlas Sound MPC Series Paging Communications Center is a modular switching system offered as factory-assembled consoles with 6 or 12 DPDT-style push-button switches or as individual chassis and switch modules. The standard MPC-106B and MPC-112B units are provided with two sets of form 'C' contacts per switch.

These units can be modified for zone paging by installing jumper wires. Refer to the instructions provided on the following pages to determine which configuration will best meet your needs. (For additional information on Atlas Sound MPC Series products, refer to SL5-1504.)



MPC-112B

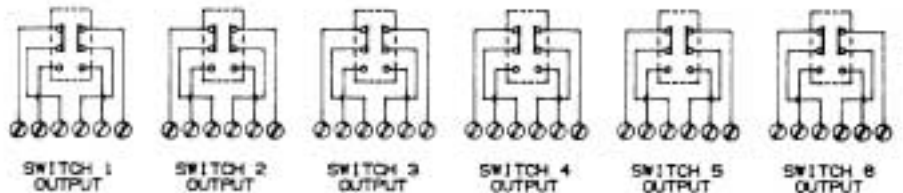


MPC-102A

STANDARD CONFIGURATION WITH TWO SETS OF FORM 'C' CONTACTS PER SWITCH

1. Remove the switch panel(s) from the MPC console by loosening the two mounting screws found on each panel.
2. Route the field wiring through the access holes on the back of the console.
3. Connect the field wiring as required. (A switch schematic is shown in Figure 1.)
4. The terminal numbers correspond to the switch positions. Switch 1 is on the left side of the switch panel when viewed from the front.
5. Re-install the switch panel(s) into the MPC console.

FIGURE 1: SWITCH SCHEMATIC

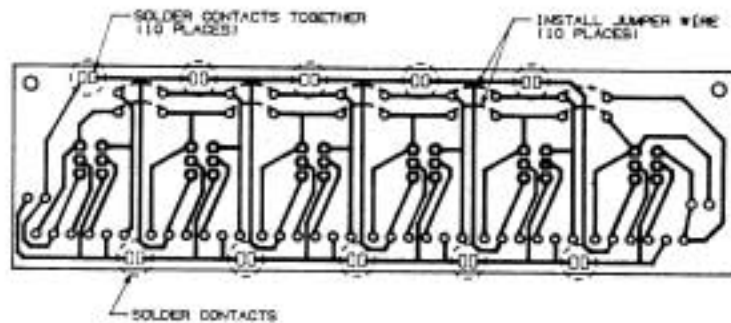


MODIFICATION FOR ZONE PAGING*

*Not Necessary when used with PSR Module

1. Remove the switch panel(s) from the MPC console to access the PC boards.
2. Modify the PC boards by completing the following steps:
 - Solder the 10 contacts together as illustrated in Figure 2.
 - Install 10 jumper wires and solder the wires to the PC board as shown in Figure 2.
3. Route the field wiring through the access holes on the back of the console.

FIGURE 2: JUMPER WIRE INSTALLATION



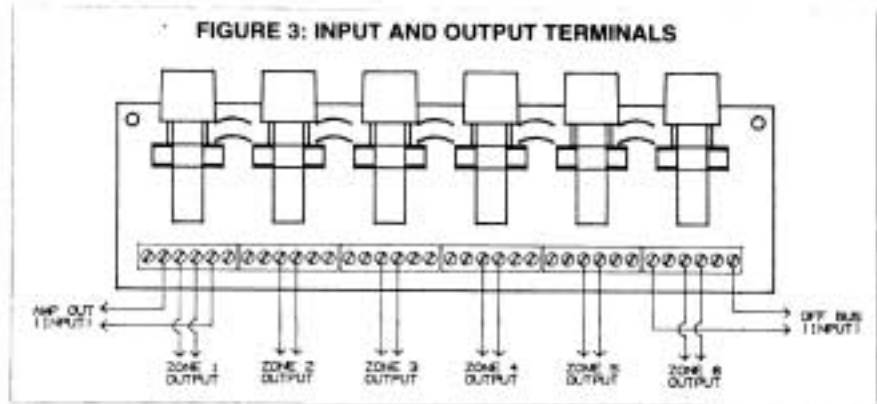
(Continued on page 2.)

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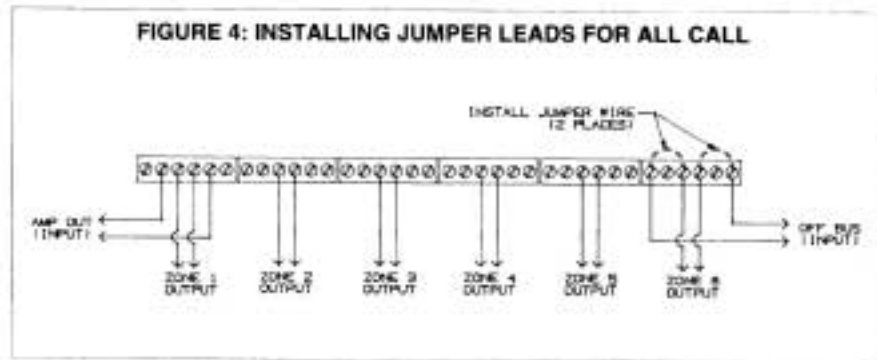
MODIFICATION FOR ZONE PAGING (CONTINUED)

4. Connect the field wiring (see Figure 3).
5. Connect the amplifier output to the AMP OUT terminal(s).
6. Connect the loudspeaker lines to the corresponding switch position. Switch 1 is on the left switch panel when viewed from the front.
7. Re-install the switch panel(s) into the MPC console.

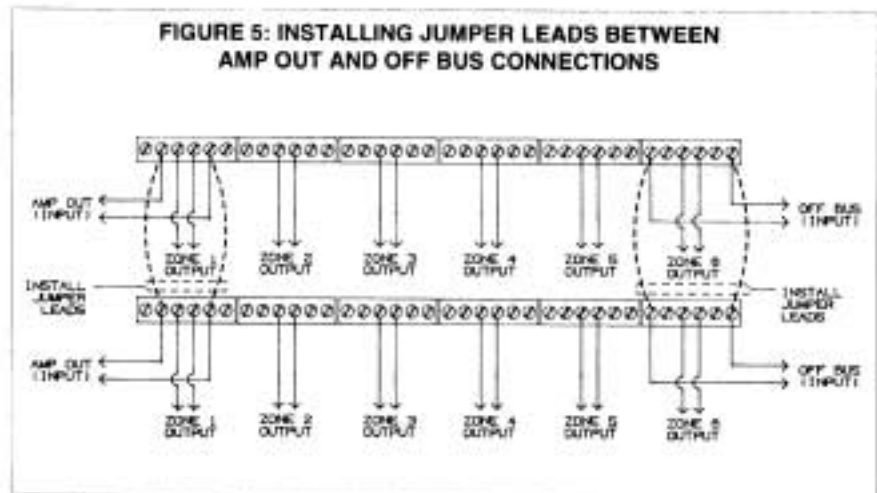


MODIFICATION FOR ZONE PAGING WITH ALL CALL

Conversion of any switch to an ALL CALL key is accomplished by connecting the OFF BUS terminals to the loudspeaker line terminals of the desired switch (refer to Figure 4). Switch 6 is shown connected as an ALL CALL switch although any switch although any switch may be employed for this function.



If installing a Model MPC-112-A Console, add two jumper wires between the AMP OUT screw terminals of the two panels, as well as two jumper wires between the OFF BUS screw terminals of the two switch panels prior to installing the panels to the console (see Figure 5).



NOTE: When MPC106-A and MPC-112-A communication centers are configured for zone paging, the use of Atlas Sound PSR Series relay packs is not recommended. The PSR Series may, however, be used with MPC units in the standard form "C" contact configuration.

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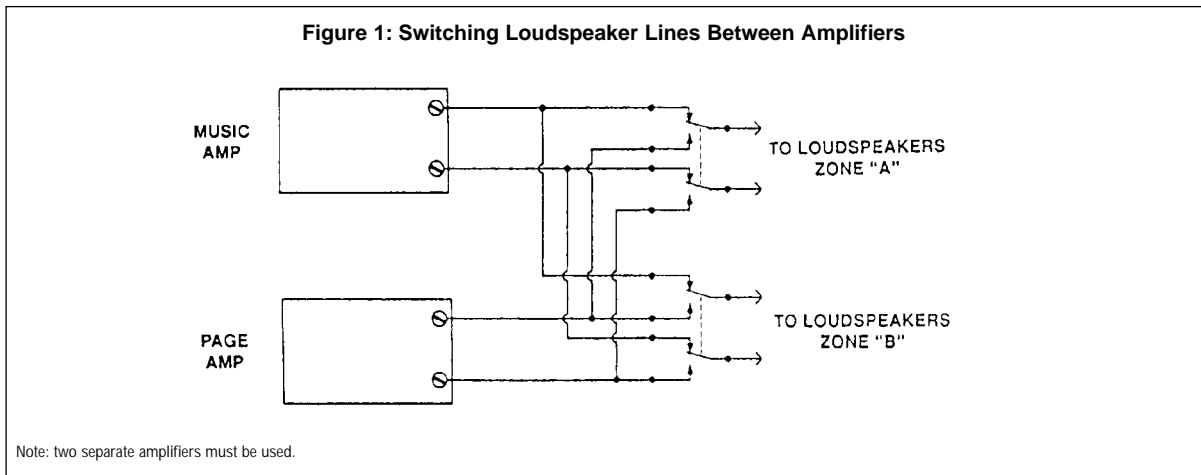
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**DESIGNING ZONE PAGING SYSTEMS
USING PSR SERIES RELAY PAKS AND MPC SERIES SWITCH MODULES**

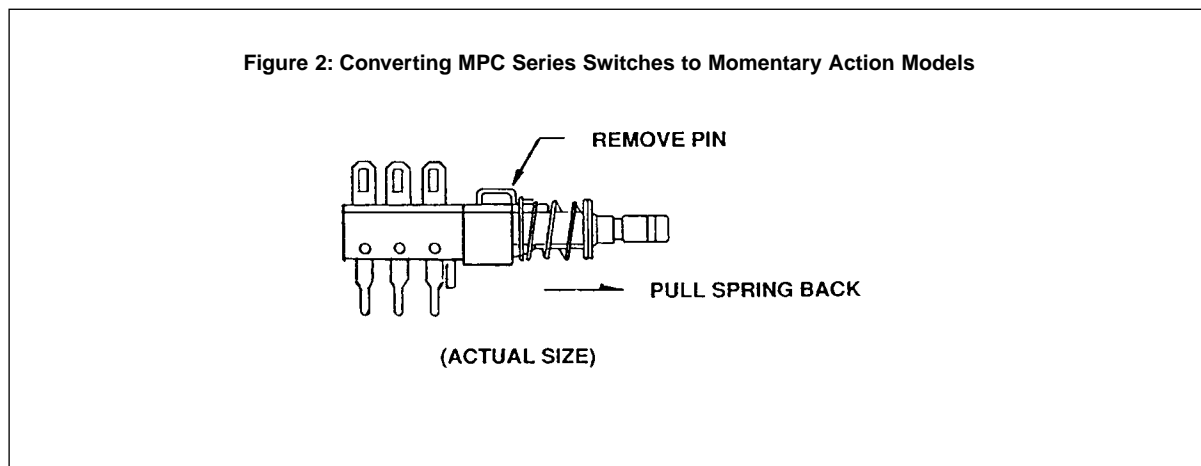
Atlas Sound offers a line of modular communications control centers (MPC Series) and accompanying powered relay packs (PSR Series) which can be used for a variety of zone paging and communications applications. (For details on individual models, refer to specification sheets SL5-1504, SL5-1506, and SL5-1016.)

Zone paging systems enable users to page one or more selected areas without affecting or interrupting the background music in those areas. Such systems are configured by transferring the loudspeaker line of the paged area, or zone, from the music amplifier to a paging amplifier (see Figure 1).



The transfer can be accomplished by using DPDT switches or PSR Series relay packs near the amplifiers and one or more MPC Series switch assemblies at the location most convenient to the person(s) who will initiate the page.

MPC Series switches are manufactured as push-on/push-off locking assemblies. They can be easily converted, however, to momentary action models by removing the locking pin from the actuator mechanism (see Figure 2).

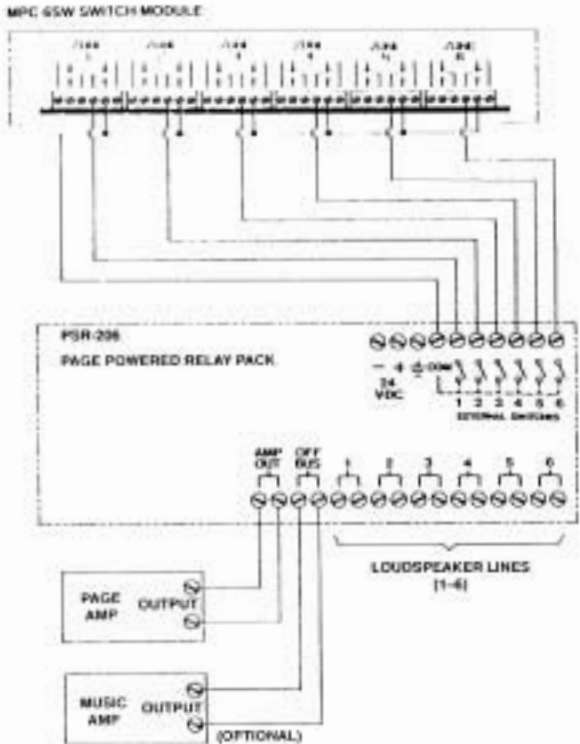


Several commonly used system configurations are shown on the following page. The application diagrams are illustrated using a PSR-206 (with six relays) and one MPC Series switch module. These systems could be expanded by using a PSR-212 (with 12 relays) and multiples of the MPC Series switch modules in any of their possible configurations (see FYI sheet SL5-1506).

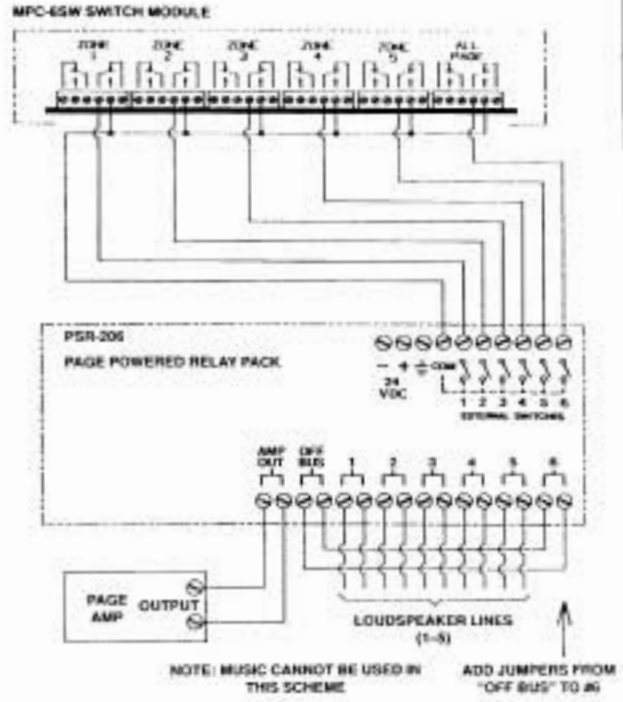
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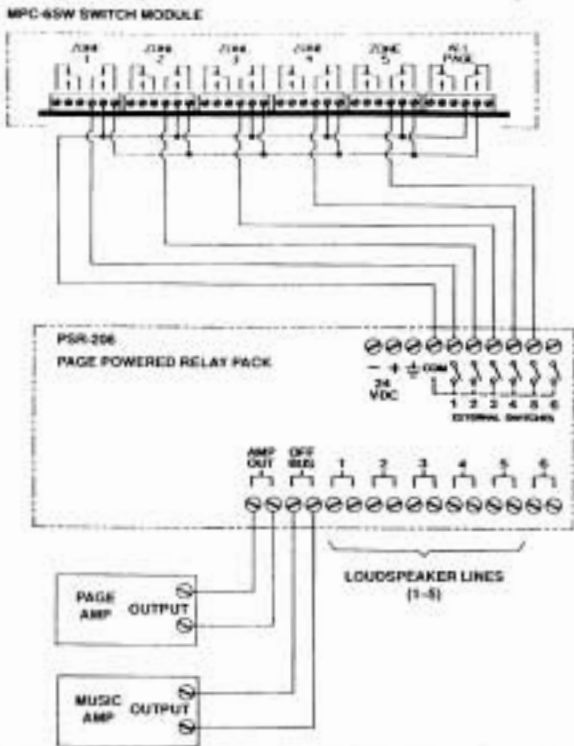
Basic Zone Paging System With or Without Music



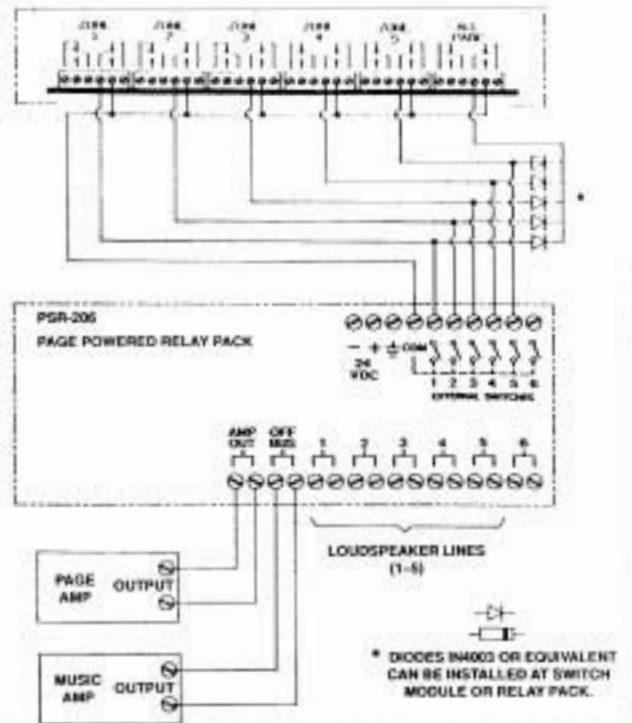
Zone Paging System Using Relay #6 for "All Page"



Zone Paging System with Music and "All Page"
(Utilizing Both N.O. and N.C. Switch Contacts)



Zone Paging System with Music and "All Page"
MPC-65W SWITCH MODULE IN MPC 112B OR MPC 106B



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GPS750

FEATURES

- Steady, Pulse, & Siren Tone Signaling
- Built-in Power Supply
- Square Wave Output
- Screwdriver Adjustable Controls
- Adjustable Frequency

APPLICATIONS

The Model GPS750 is multi-tone generator that produces reliable, attention-gathering sound as a steady tone, pulse tone, or siren tone.

It is ideal for communication signaling systems in educational, industrial, and commercial applications, particularly where warning alarms are required.

The tone generator features a built-in power supply, and it is equipped with solid-state circuitry which includes silicon devices for temperature stability. Such characteristics, coupled with its compact size, enable the GPS750 to satisfy a number of application and mounting requirements.

GENERAL DESCRIPTION

The GPS750 has a square-wave output adjustable from 600 Hz through 1000 Hz (screwdriver adjust). The pulse tone, which can be

adjusted internally, is produced by keying the generator so that the steady tone is 'ON' approximately 200 millisecond, then 'OFF' 800 milliseconds. (See instruction sheet).

The generator is programmed so that when simultaneous switching occurs, the siren takes precedence over the pulse and the pulse over the steady. The square wave output is available on the terminal marked 'out'. Terminations are to screw terminals and controls include: output level, tone frequency, pulse duration, and sweep frequency.

Unit has an input power of 117 VAC, 60 Hz with an adjustable output level capable of delivering a maximum of one volt into a 10,000 ohm load. The siren, pulse, or steady tone can be keyed by an external switch (spst). The siren tone, which sweeps about 300 Hz from the frequency chosen, can also be adjusted downward internally.

The chassis is constructed of sturdy CRS and is finished in black epoxy. Unit comes complete with 6 ft. power cord.

| MODEL | INPUT POWER | OUTPUT LEVEL | FREQ. | TERMINATIONS | DIMENSIONS | WEIGHT |
|--------|----------------|--------------|--------------------------|-------------------|--|---------------|
| GPS750 | 117 VAC, 60 Hz | 1 volt @ 10K | 600-1000 Hz (adjustable) | 6 screw terminals | 6¾" L x 5½" W x 2¼" H (171 x 140 x 57mm) | 4 lbs. (2kg.) |

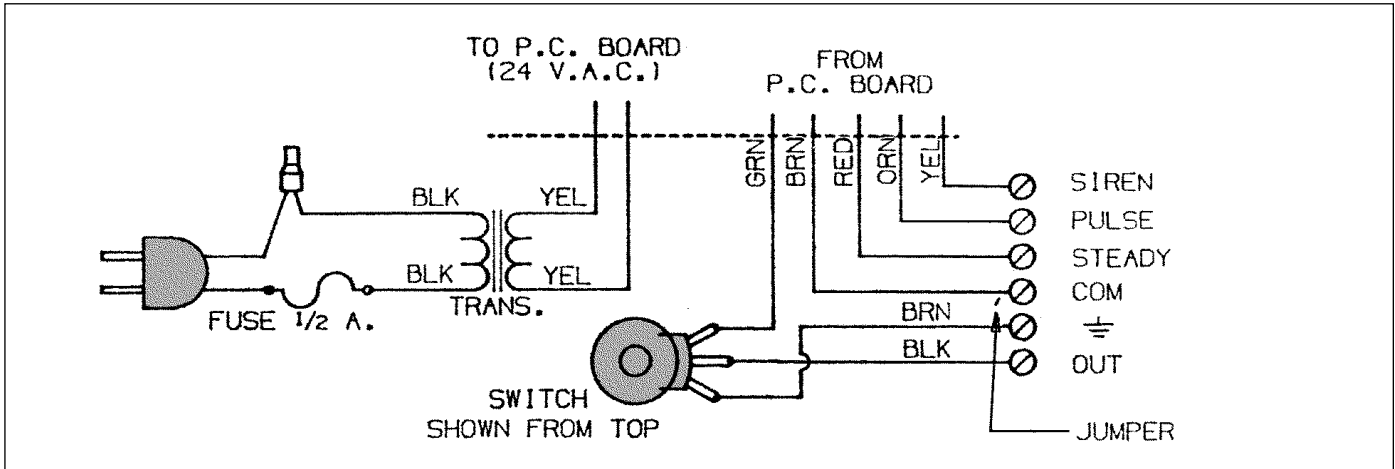
Specifications subject to change without notice



ARCHITECT AND ENGINEER SPECIFICATIONS

The multi-tone generator shall be Atlas Sound Model GPS750 or approved equal. The generator shall have provisions for steady tone, pulse tone, and siren tone. The frequency shall be adjustable from 600 Hz through 1000 Hz. The pulse tone shall be capable of sweeping about 300 Hz. The output level shall be one volt into a 10,000 ohm load and shall be adjustable.

Each tone shall have provisions to be actuated by external SPST switch. The siren tone, pulse tone and steady tone shall take precedence in that order. The entire unit shall be completely solid state and have silicon devices for temperature stability. The unit shall have an internal power supply.



**GPS750
WIRING DIAGRAM**