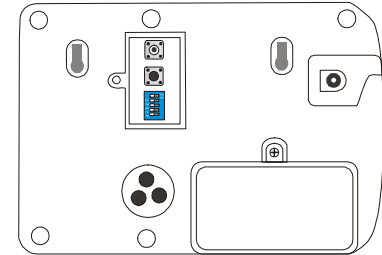
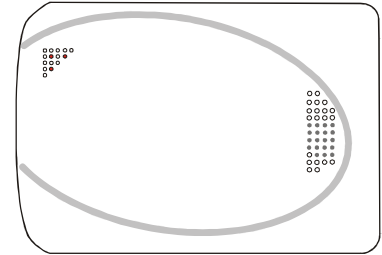


Repeater (EAS/REP9)

Preface

The Repeater is designed to increase the effectiveness and versatility of the alarm system. It is a device that makes your system more powerful by increasing the maximum possible distance between the Main Unit and the Transmitters/Detectors and the distance between the Main Unit and the Receivers (BX-7, UR-7)



Identifying the Parts

1. GREEN LED
2. RED LED
3. AMBER LED
4. DC 9V JACK
5. PROTECTIVE COVER (for Dip Switch)
6. BRACKET

Function Switch Block

Sliding down the protective cover carefully, you can see a Switch Block (SW1) consists of 6 Dip Switches marked as 1 ~ 6 from left to right. When the Dip is in up position, it indicates the "ON" mode. When it is situated in down position, it indicates the "OFF" mode. A few individual switches are also placed along with them. The function of each switch is stated as table below.

SW1	
Dip 1	Siren Learning
ON	Learning Mode
OFF	Normal Operation
Dip 2	Testing Mode
ON	Test Mode
OFF	Normal Operation
Dip 3	Clear Memory
ON	Clear eeprom
OFF	Normal Operation
Dip 4	Reserved
Dip 5	Reserved
Dip 6	Reserved
RESET	Press once to reset the system
RP LEARN	Press for more than 10 sec to clear all of the previous learnt devices with Dip 3 on "ON" position

Battery

The repeater can be powered either by:

- DC 9V 300mA power adaptor
- Rechargeable battery: 7.2V 600mA Ni-Cd battery (1.2V *6)
- The adaptor is used for daily operation, it provides power and at the same time charges the battery. The rechargeable battery serves as a back up.

In addition, the Repeater can detect if the battery is low. If the battery voltage is low, the Amber LED will stay on until the power has been recharged.

Programming EAS/REP9:

NOTE: Before you open the protective cover, make sure the power adaptor is not plugged in.

- Step 1. Plug the power supply to EAS/REP9 and the Green LED will stay on, with repeated short beeps performed for one sec.
- Step 2: Slide the EAS/REP9's SW1 Dip #1 to "ON" position. The Red light stays on to indicate EAS/REP9 is now in Learn mode.
- Step 3. Press the "Test" button on the devices for EAS/REP9 to learn. Green LED will flash once and 5 repeated short beeps will be performed for one sec.

<NOTE>

- ☞ If any devices have already been learnt into EAS/REP9, it will not be learnt for a second time. No beeps will be performed to indicate the installer that the particular device has already been learned.

- Step 4. Repeat "Step 3" for other device learning.

Programming EAS/REP9 in the Main Control Panel:

- Step 5. Program the Control Panel by selecting "Device +/-" menu, then "Program Siren menu, then "Learn Siren".
- Step 6. Press "OK" and the Control Panel will give a long beep to confirm, followed by the EAS/REP9's response of one flash of Green LED and 5 repeated short beeps performed for one sec.
- Step 7. The Learn-In process is now completed. Replace SW1 Dip #1 back into "OFF" position, the Red LED goes off to confirm that the EAS/REP9 is now in Normal Operation mode.

<NOTE>

- ☞ If more than 20 devices have been learned-in before, repeated short beeps performed cyclically continuously until the SW1 Dip #1 has been slide back to "OFF" position.
- ☞ If a new device is wishing to be learned while it is full, you will need to "Clear the eeprom memory" of the devices before any other devices can be learned-in.
- ☞ Clear the eeprom memory of the devices learning and reset to Factory Default:
 - I. Slide SW1 Dip #3 to "ON" position
 - II. Press & hold RP LEARN button for at least 10 sec and release. Repeated short beeps will be performed for one sec to indicate the clearing process is successful.
 - III. Slide SW1 Dip #3 back to "OFF" position.

Testing the Repeater:

This procedure is used to test if the EAS/REP9 is functioning normally.

- Step 1. Slide SW1 Dip #2 to "ON" position. The Green light stays on and Red light flashes once per sec to indicate EAS/REP9 is now in Test mode.
- Step 2. Transmit a signal from a particular device, if the EAS/REP9 received the signal, the Green light stays on, the RED flashing light will go off and Amber light stays on during the transmitting process. Repeated beeps will be performed cyclically continuously for three sec to indicate the particular device is functioning properly.
- Step 3. After that, the Green light is still on while Amber light goes off and Red light go back to flashing status again.
- Step 4. Replace SW1 Dip #2 back into "OFF" position, the Red LED goes off to confirm that the EAS/REP9 is now in Normal Operation mode.
- Step 5. The Test process is now completed

Installing EAS/REP9:

- Step 1. Find the location where EAS/REP9 is to be mounted. Make sure it is placed in between the Main Control Panel and other devices.
- Step 2. If installing one or more repeaters, please make sure that the distance between each repeater and/or Main Control Panel must be great than 20 meters.
This is used to avoid the signal interference that may caused while transmitting and receiving signals from the devices
- Step 3. Using the 2 holes of the Wall Mounting Bracket as a template, mark off the hole's positions.
- Step 4. Drill 2 holes and fix the screws & plugs provided.
- Step 5. Hook the EAS/REP9 unit onto the Wall Mounting Bracket (holding the unit with the front facing you).
- Step 6. Installation is now completed.

Factory Default Reset:

- Clear the eeprom memory and reset to Factory Default:
 - Slide SW1 Dip #3 to "ON" position
 - Press & hold RP LEARN button for at least 10 sec and release. Repeated short beeps
 - will be performed for one sec to indicate the clearing process is successful.
 - Slide SW1 Dip #3 back to "OFF" position.

Important Notes:

- When the Repeater receives a valid signal from a particular already-learned device, it will:
 - If the same signal with different code is received by the EAS/REP9, the signal will automatically be transfer to Main Control Panel
 - If the same signal with same code is received by the EAS/REP9 within 2 seconds of the last signal, the signal will not be transferred to Main Control Panel
 - If the same signal with same code is received by the EAS/REP9 for more than 2 seconds from the last signal, the signal will be transferred to Main Control Panel again with the Green LED flashes once.

<NOTE>

- ☞ The counting of 2 sec will start from the last signal received. This is specially designed to avoid any conflict when several transmissions take place.
- ☞ If the Repeater received several signals, it will only transmit the last available valid signal.
- It is strongly suggested to keep at least 20 meters of distance between each repeater and/or Main Control Panel to avoid cross signaling.
- If a particular device is within an acceptable range for Control Panel to receive its transmission signal, it is strongly recommended not to be learned into EAS/REP9 itself to avoid cross signaling
- The RESET button can be pressed to reset or power-on the EAS/REP9.