



PANASONIC A406 REPEATER QUICK SETUP GUIDE

Online instructional videos and manufacturer user guides are also available. Visit www.primus.ca/hpbxguide for more information.

What You Need

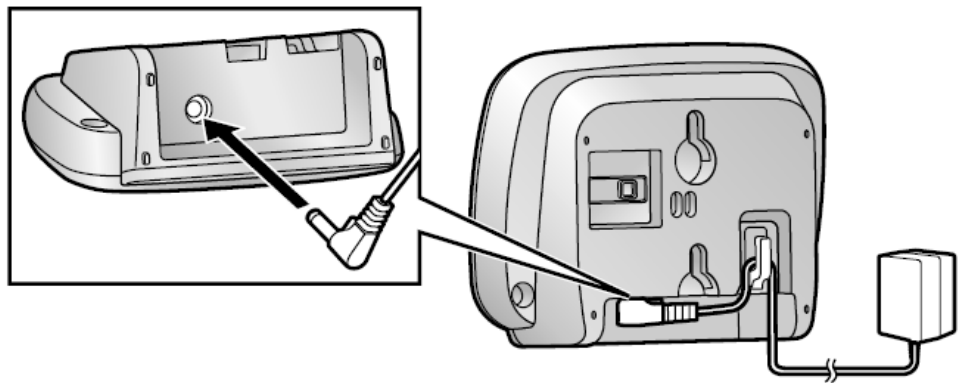
<ul style="list-style-type: none"> ▪ Panasonic base unit and cordless handset (model KX-TGP600) from Primus Business Services 	
<ul style="list-style-type: none"> ▪ Panasonic DECT repeater (model KX-A406) from Primus Business Services 	
<ul style="list-style-type: none"> ▪ Hosted PBX service from Primus Business Services 	

Before you Start

Your Panasonic base unit and cordless phone must be setup, turned on, and functioning prior to installing the repeater. Please refer to the **Panasonic TGP600 TPA60 TPA65 Quick Setup Guide**, available at www.primus.ca/hpbxguide for more information.

Registering the Repeater to the TGP600 Base Unit

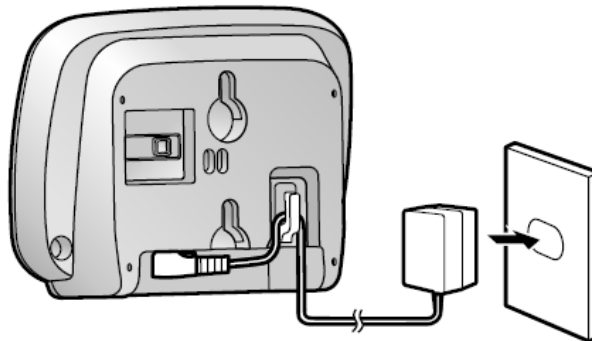
1. Plug the AC adapter into the repeater. Press the plug firmly to make sure it is in place. There is a hook at the bottom of the unit to secure the cable in place to prevent it from being accidentally pulled out. Do not plug in the AC adapter into an electrical outlet yet.



2. On the base unit, press and hold the Handset locator button for 4 seconds until the **STATUS** indicator **flashes red**. If all registered handsets start ringing, press the same button to stop and repeat the step. **The next step must be completed within 90 seconds.**



3. Plug the AC adaptor of the repeater to an electrical outlet.



4. On the repeater, the **STATUS** indicator and ∇ /ID indicator will turn **amber** for 2 seconds. When both indicator lights turn **solid green**, the repeater is registered to the base unit and is ready to use.
5. On the base unit, exit registration mode by pressing the Handset locator button.

NOTE:

- Register repeaters one by one. **Do not register multiple repeaters at the same time.**

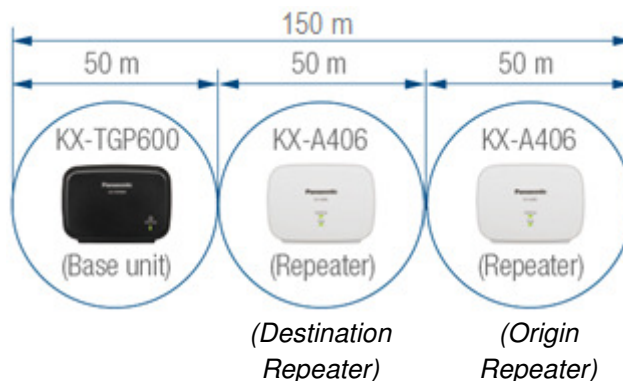
- If the indicator lights of the repeater do not turn green, make sure the repeater is within range of the base unit and try again.
- For wall mount instructions, see **Panasonic DECT Repeater Installation Manual** for the KX-A406, available at <http://primus.ca/business/hpbxguide>.
- For additional troubleshooting tips, please review the **Hosted PBX Small Office Basic Troubleshooting Guide**, available at <http://primus.ca/business/hpbxguide>.

If the configuration process was interrupted or if you need assistance, please contact Primus HPBX Technical Support at 1-888-222-8577.



Registering the Repeater to Another Repeater

A repeater can be connected to another repeater in series to extend total coverage to up to 150m. This can be done by registering the repeater to another repeater.



In the diagram above, the destination repeater is registered with the base unit, and the origin repeater is connected in series to the destination repeater. **This section describes how to set up the origin repeater. Before you begin, you must register the destination repeater to the TGP600 base unit. Please follow the steps in the previous section on how to register a repeater to the base unit.**

To register a repeater to another repeater, they must be set to the same ID.

On the destination repeater:

1. First check the ID of the repeater you are attempting to register to (destination repeater). With the destination repeater turned on and functioning normally, press the **PROGRAM** button located under the destination repeater. Note the number of times the ∇ /ID indicator flashes green. This is the ID of the destination repeater – one flash indicates the ID as 1, two flashes indicate the ID as 2, and so on.
2. Return the destination repeater back to normal operation by pressing the **PROGRAM** button again. Both the ∇ /ID and **STATUS** indicators should go back to **solid green**.

On the origin repeater:

3. Turn on the repeater you want to register (origin repeater) by connecting the AC adaptor. The **STATUS** indicator should be **flashing red** and the ∇ /ID indicator should be off.
4. On the origin repeater, press and hold the **PROGRAM** button for 5 seconds until the **STATUS** indicator **flashes green**. Release the **PROGRAM** button.

The **STATUS** indicator will turn **solid green**, and the ∇ /ID indicator will **flash red** once to indicate that the ID is set to 1.

5. Set the ID of the origin repeater to be the same as the destination repeater. If the ID of the destination repeater was not 1, press the **PROGRAM** button on the origin repeater to select the ID that matches the destination repeater. The ID will change by one each time the **PROGRAM** button is pressed. (e.g., if you select ID 3 by pressing the button two times, the ∇ /ID indicator will flash 3 times)
6. Press and hold the **PROGRAM** button for 5 seconds to assign the ID to the origin repeater. The ∇ /ID indicator will turn **solid red**. Release the **PROGRAM** button. The **STATUS** indicator and the ∇ /ID indicator will turn **amber** for 2 seconds and then the **STATUS** indicator will start **flashing red**, indicating that the repeater is waiting to be found.

On the base unit:

7. On the base unit, press and hold the Handset locator button for 4 seconds until the **STATUS** indicator **flashes red**.



8. Once the destination repeater finds the origin repeater, the **STATUS** indicator on the origin repeater will turn **solid green**. Registration is successful.
9. On the base unit, exit registration mode by pressing the Handset locator button.
10. To verify whether the setup was successful, turn off the destination repeater by unplugging the AC adapter. On the origin repeater, the **STATUS** indicator and the ∇ /ID indicator should both turn **solid red**, indicating that the connection was lost. Turn the destination repeater back on by plugging in the AC adapter. Both indicators on the destination repeater should turn **solid green**, followed by the indicators on the origin repeater.

Optimizing Placement of the Repeater

The TGP600 base unit and A406 repeater has a maximum range of 50 meters. However, for optimal synchronization between the base unit and the repeater, or between two repeaters, the devices are recommended to be placed within a maximum of 40m to 50m of each other. Range may vary depending on environment.






For maximum coverage and noise-free communications, place your repeater:

- at a convenient, high, and central location, such as on a wall, with no obstructions between your phones and the repeater;
- away from electronic appliances such as TVs, radios, personal computers, wireless devices or other phones;
- away from radio transmitters such as external antennas of mobile phone cell stations (avoid putting the repeater on a bay window or near a window);
- away from objects that could interfere with reception such as wire fences, thick walls, radiators, and metal shelving.

The repeater is for indoor use only.

To optimize the placement of your repeater:

1. Use the signal strength indicator on the TGP600/TPA60 cordless handset to determine a viable location where you wish to extend the range of your base unit. The signal strength should still be strong where the repeater will be placed.

	Signal Strength Indicator - Strong
	Signal Strength Indicator - Medium
	Signal Strength Indicator - Weak
	Signal Strength Indicator - Very weak
	Signal Strength Indicator - Out of range

2. Once a suitable location for the repeater is found, turn on the repeater by connecting the AC adaptor. If the Ψ /ID indicator on the repeater turns **red** or **amber**, this indicates that the signal strength is too weak for the repeater to function. Re-position the repeater to a place where the indicator turns **green**.
3. Check that that repeater is providing adequate coverage for your needs. Using the signal strength indicator on the TGP600/TPA60 cordless handset,

walk to various areas where you may be using the phone, and confirm there is adequate signal strength. If not, you may need to adjust the position of the repeater, or install another repeater to further extend coverage area.



Optimizing Placement of the Repeater (Advanced)

The following instructions are for advanced users conducting a site survey to determine the optimal placement of the repeater. These steps require the cordless handset to operate in maintenance mode.

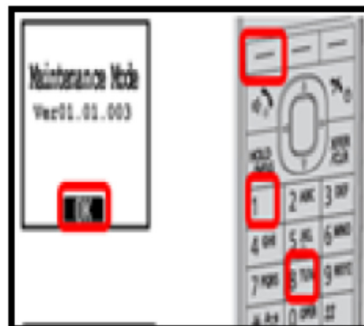
1. Press and hold the “power” key on the cordless handset until the background of the display screen is light grey.



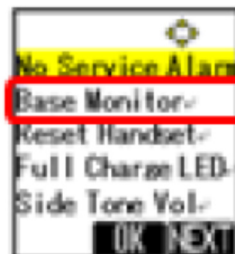
2. Release the “power” key and press and hold the “talk” key for about 10 seconds until the background of the display screen turns dark grey.



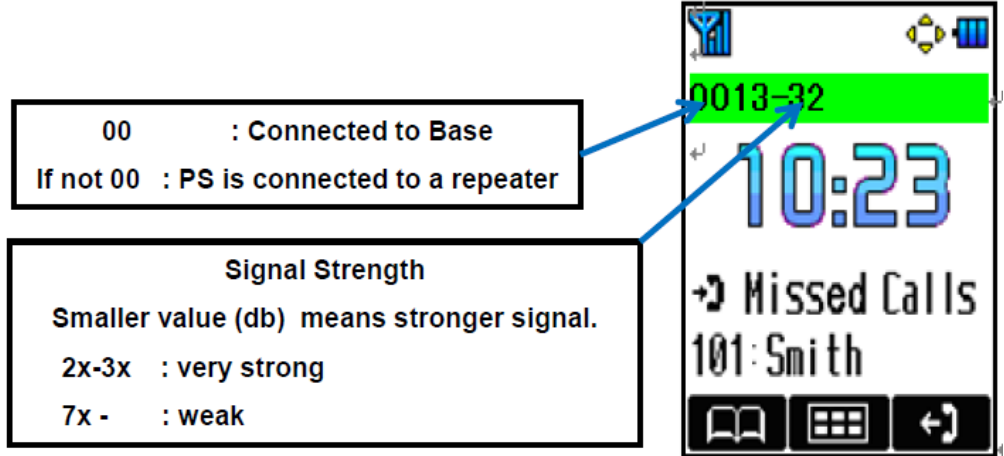
3. Release the “talk” key and press the following keys in sequence: Left soft key, 8, 1. The display will show “Maintenance Mode”, with the firmware version below it. Press “OK” to display the maintenance menu.



4. Then select “Base Monitor” and then “Current Base”.



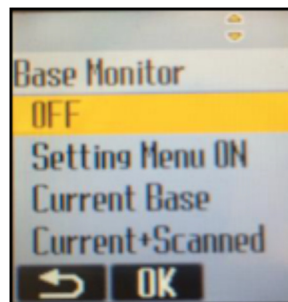
- Turn off the handset by pressing the “power” key, and then turn it back on by pressing the “power” key. The handset will now be in site survey mode, and display signal strength (RSSI) and connection status. Description of the values are as follows (PS refers to the handset):



- Walk around to confirm the service area. If the readings are acceptable, the display will remain green. If the display turns red and the signal is weak, install the repeater in the area right before it starts turning red.
- Once the site survey is complete, revert the handset back to normal operation. First, turn off the handset.
- Go into Maintenance Mode by following steps 1 to 3.
- Select “Base Monitor” and press “OK”.



- Select “OFF” and press “OK”.



11. Turn the handset off and then turn it back on. The handset will be in normal operation mode.



Status Light Indicators

STATUS Indicator	
Solid Green	The repeater is within base unit range, or within range of another repeater (if connected in series). The repeater is ready for use
Flashing Green	One handset is communicating with the base unit through the repeater
Quick Flashing Green	Two handsets are communicating with the base unit through the repeater
Solid Red	The repeater is out of range of the base unit or another repeater (if connected in series)
Flashing Red	The repeater is not registered to the base unit.
Off	The repeater power is off.

Y/ID Signal Strength/ID Indicator	
Solid Green	Signal strength of the base unit is strong
Flashing Green	The base unit is in repeater range. The number of flashes indicates the current ID of the repeater. When it flashes once, the ID is 1.
Solid Amber	Signal strength of the base unit is weak
Solid Red	The repeater is out of range of the base unit or another repeater (if connected in series)
Flashing Red	The base unit not within repeater range. The number of flashes indicates the current ID of the repeater. When it flashes once, the ID is 1.
Off	The repeater is not in use.