



WIRELESS CHARGING PHONE CRADLE USER GUIDE

Description	Part Number
WIRELESS CHARGING PHONE CRADLE WITH USB PLUG	AS7.U050.013
WIRELESS CHARGING PHONE CRADLE WITH BARE WIRE	AS7.U050.013-1
PHONE CRADLE (NO ELECTRONICS)	AS7.U050.013-2
XL WIRELESS CHARGING PHONE CRADLE WITH USB PLUG	AS7.U050.014
XL WIRELESS CHARGING PHONE CRADLE WITH BARE WIRE	AS7.U050.014-1
XL PHONE CRADLE (NO ELECTRONICS)	AS7.U050.014-2

Mobile device (including case) size compatibility:

Standard models: Height 5.3"(135mm) – 6.33"(161mm), Max width 3.07"(78mm), Max depth 0.5"(13mm)

XL models: Height 6.0"(152mm) – 7.03"(179mm), Max width 3.27"(83mm), Max depth 0.5"(13mm)

Note

Some mobile device and case combinations may not be fully compatible with these cradles. Irregularities in corner radius dimensions, tapers, protrusions, materials, etc will affect if a device and/or case will fully function with these cradles.



GENERAL INSTRUCTIONS

Safety:

- Safety is dependent on the proper installation and servicing of this product. It is important to read and follow all instructions before installing this product.
- Proper installation requires a good understanding of automotive electrical systems and is recommended to be performed by qualified technicians only.
- The elastic nylon safety strap should be used to prevent the wireless device from becoming a projectile in the event of an emergency (crash).
- There are no adjustments or user serviceable parts within the wireless charger. Removing the shield will void the product warranty.
- Do not install equipment or route wires in the deployment path of any air bag, or where it may interfere with critical safety or operating controls of any vehicle.
- Check for excessive heat buildup before touching the charged device or charger. Do not handle if excessive heat is felt.

Wiring:

- For bare wire models connect the red wire to a fused 12v DC nominal positive (+) source, and the black wire to a good negative (-) ground. Be cautious and observe polarity to prevent damage to the charger.
- For models with USB type A male connectors, use a standard USB 2.0 compliant or above type A female port.
- Visit www.precisionmounts.com/support/installation-user-guides.html for a copy of our general wiring and troubleshooting guide.

Proper Use and Care:

- Proper care and use of this product is critical to maximize safety and to prevent damage.
- Extra thick cases may prevent or reduce charger function.
- Position the wireless device as central on the top surface of the charger as possible.
- Do not store foreign objects on top of the wireless charger.
- Remove any foreign metal object from the top of the wireless charger.
- Clean the top surface with damp cloth periodically.
- Do not use harsh chemicals or cleaners to clean the device.
- Wireless charging inherently produces heat between the charger and device and heat buildup is expected during use. To reduce heat buildup use the below tactics:
 - Do not mount in direct sunlight
 - Turn off background apps in the device being charged
 - Limit the amount of processes the charged device is performing (Bluetooth, GPS, detailed graphics, etc) as these increase the load on the device processor which leads to heat buildup.
 - Do not use a case with the device being charged, or if a case must be used choose one with a thin backing

SERVICING [ENTRETIEN]:

- If this product does not work as intended, please contact PMT for troubleshooting or to schedule a service. *[Si le dock ne fonctionne pas comme prévu, contactez PMT pour le dépannage ou pour planifier un service.]*
- Service should be only done by authorized service center personnel. Unauthorized servicing of the unit will void its warranty. *[L'entretien du dock ne doit être effectué que par le personnel du centre de service autorisé. Un entretien non autorisé du dock annulera sa garantie.]*

Product Mounting Disclaimer

Precision Mounting Technologies Ltd (PMT) are not liable under any theory of contract or tort law for any loss, damage, personal injury, special, incidental or consequential damages for personal injury or other damage of any nature arising directly or indirectly as a result of the improper installation or use of its products in vehicle or any other application. In order to safely install and use PMT products full consideration of vehicle occupants, vehicle systems (i.e., the location of fuel lines, brake lines, electrical, drive train or other systems), air-bags and other safety equipment is required. PMT specifically disclaims any responsibility for the improper use or installation of its products not consistent with original vehicle manufactures' specifications and recommendations, PMT product instruction sheets, or workmanship standards as endorsed through PMT policies and EULA.



GENERAL INSTRUCTIONS

Power:

- Input: 5v 2A, 9v 1.67A, 12v 1.5A, 19v 1.2A
- Output: 5v 1A, 9v 1.1A, 12v 1.25A
- Product standard: WPC-Qi V.1.2.4
- If input voltage < 4v the transmitter will stop working. When input voltage returns to specified range the transmitter will resume normal operation.

Environmental:

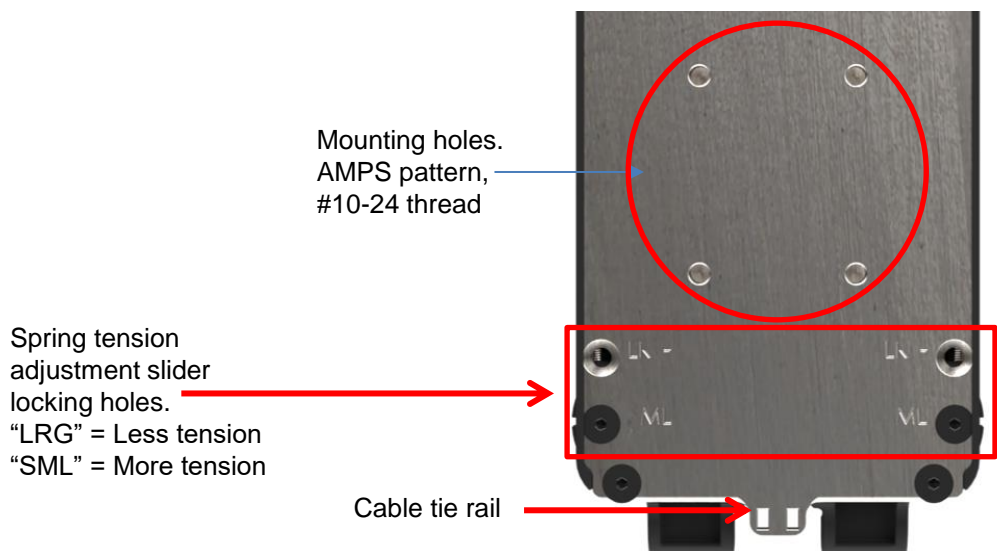
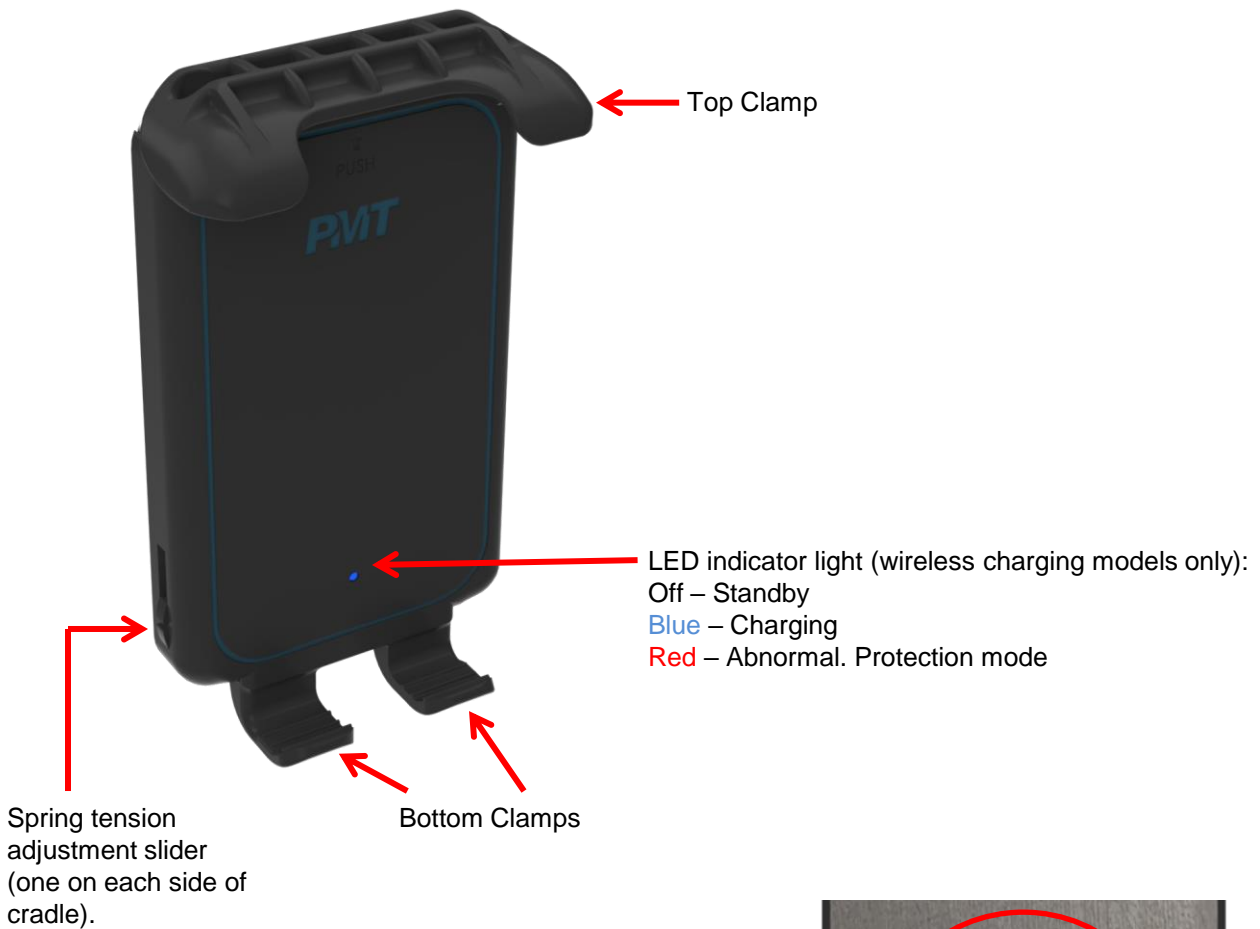
- Storage: -20°C to 80°C (-4°F to 176°F)
- Operating: 0°C to 40°C (32°F to 104°F)

Thermal Management:

Note that the wireless charging process will generate heat due to the very basic physics inherent with this process. To manage excess heat buildup and to reduce the chance of device overheat please review the below best practices when using the wireless charger:

- Try not to mount the device in direct sunlight
- Utilize nearby air vents or ducting to direct cool air onto the device
- Close unneeded background apps on the device
- Reduce the number of apps and connections running at the same time (Bluetooth, GPS, wifi, etc)
- Reduce screen brightness
- Do not use a thick protective case as this will contribute to heat buildup.

DESCRIPTION OF PARTS



CRADLE SETUP

Step 1

Adjust spring position according to mobile device size and desired tension. Note that greater tension provides better stability, however, does increase the amount of force required to load a mobile device.

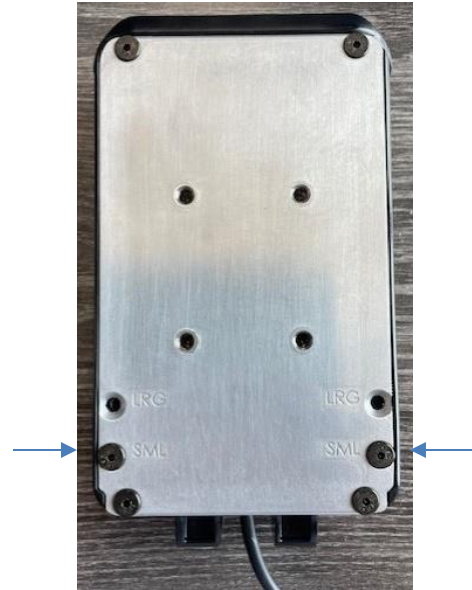
When the screws are positioned in the holes labeled “LRG” there will be less tension, and when the screws are installed in the “SML” position there will be more tension.

The “SML” positions should be used for devices apx 5.8”(147mm) in height or below. Note that one screw can be installed in the “SML” position, and one screw can be installed in the “LRG” position for further refining the tension

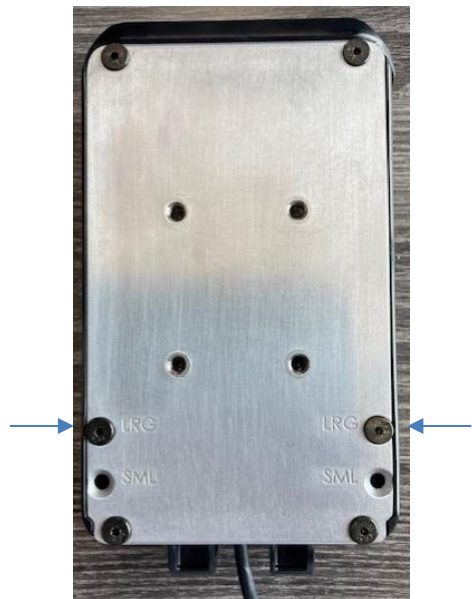
To adjust the position first remove the screws using a 1/16” hex key/wrench and with a fingernail or sharp pointed object push the slider on the sides of the cradle so that the threaded holes line up with the desired location and then re-insert and tighten the screws. PMT does recommend using blue Loctite 243 (or equivalent) on all screws.



Adjusting spring tension



Spring tension setup for small device



Spring tension setup for large device

INSTALLATION

Step 2

Attach desired mounting plate (not included) to the back of the cradle using the supplied #10-24 x 3/8" screws and 1/8" Hex key making sure that the hardware fully tightens on mounting plate. If using a mounting plate less than 3/16" thick washers can be used in between screw and plate, or new hardware can be sourced to accommodate.

Mounting plate

#10-24 x 3/8" screw (x4)



Step 3

Attach assembly to additional mounting infrastructure (if required). Be sure not to block access to any critical vehicle controls or safety devices and ensure infrastructure can support the weight of the device and force required to load a mobile device into the cradle repeatedly.

Step 4:

Plug in the charging cradle to either a USB 2.0 type A port, or hard wire to 12v system as outlined on pg 2.



Mounting infrastructure shown securely attached to dash of vehicle, and cradle. Zirkona mount pictured above attached to PMT Wireless Charging Cradle.

USING THE CRADLE

Loading a Mobile Device:

Load the mobile device by (1) pushing the top of the device up into the top clamp of the cradle and then (2) push the bottom of the mobile device back into the cradle and let rest on the bottom clamps.



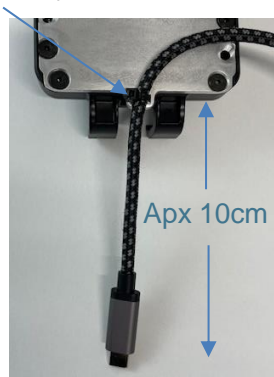
Removing a Mobile Device:

Remove the mobile device by (1) lifting it up against the top clamp of the cradle and (2) tilting the bottom edge out away from the cradle.



Cable tie ("zip-tie")

Note: If you wish to use a cable (not provided) to connect the mobile device while in the cradle you can utilize the built-in tie rail to "zip-tie" the cable for easy access. Be sure to manually remove the cable from the device before removing the mobile device from the cradle to prevent damage.



ACCESSORIES AND CERTIFICATIONS

Display Screen Mount
PMT Part# AS7.U050.012



Zirkona Mounts
PMT Part# various



Certifications and test standards:

ICES-003(A) / CISPR 32 / EN 50498
MIL-STD-810H
SAE J1455
RoHS 3 (2015/863)
REACH

Made in Canada

This device complies with Part 18 of the FCC Rules. Operation is subject to the following two conditions. (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

