TrimLine Vehicle Dock
For Toughbook 55 Laptop Computers

User Guide

Description	Part Number
TrimLine Dock for Panasonic FZ55 Laptop, NPT	AS7. P055.100
TrimLine Dock for Panasonic FZ55 Laptop, DPT	AS7. P055.102
TrimLine Cradle for Panasonic FZ55 Laptop	AS7. P055.104

Bundles with power adapters included as a kit are available and are indicated with –PS suffix added to the part number.

General Instructions

Safety:

• Safety is dependent on the proper installation and servicing of this docking station. 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.

• There are no adjustments or user serviceable parts within the docking station. Opening the docking station 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.

Power:

• The power input should be 15.6Vdc / 7.05 A.

• The dock is meant to operate on 14.5 Vdc to 16 Vdc.

• Panasonic recommends using a Lind Auto Adapter (PMT part no: PS001) for this dock.

• Power must only be supplied to either the dock or the laptop. Never both at the same time.

Wiring:

• PMT does not recommend relying on a cigarette socket adaptor for powering vehicle docks. We recommend hard wiring the power adapter using a good clean ground direct from the vehicle battery neg(-) post, and pos(+) supply from a fused 12Vdc location also directly from the vehicle battery. All peripherals connecting to the docking station requiring external power should get power and ground from the same location as the dock.

• 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 to the docking station and laptop.

• Do not store, place, or drag any object on top of the docking station.

• Visually inspect the docking station and laptop for any defect before using the dock or docking the laptop. Do not use if damaged.

• Any modifications made to the docking station could result in adverse performance and damage to the laptop and/or docking station and will void the warranty.

• Do not attempt to dock a computer or dock with wet contacts

Environmental:

Storage: -51°C to 85°C (-60°F to 185°F)

Operating: -10°C to 63°C (14°F to 145°F)

Servicing *[Entretien]*:

• If the dock 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.]*

• Servicing of the dock should be only done by authorized service center personnel. Unauthorized servicing of the dock 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.]*

External Antenna Connections:

• For DPT (Dual Pass Thru) models, there is an option to turn off the external antenna. This switch is located next to power port of the dock. Toggle the switch gently – excess force might break the switch. Turning off the external antenna will let the computer use in-built antenna. By default, docks with the RF cables comes with the switch in the ON position. The switch must be in the ON position when external antennae are connected to the dock, and in the OFF position when no external antennas are connected.
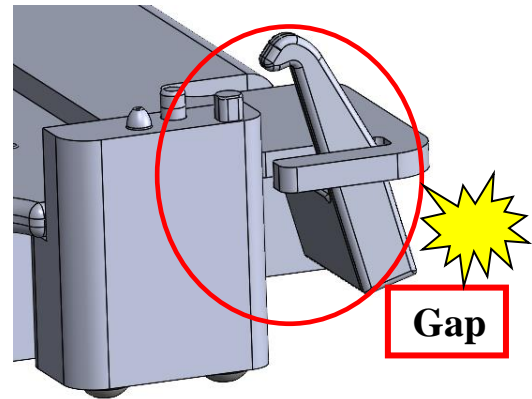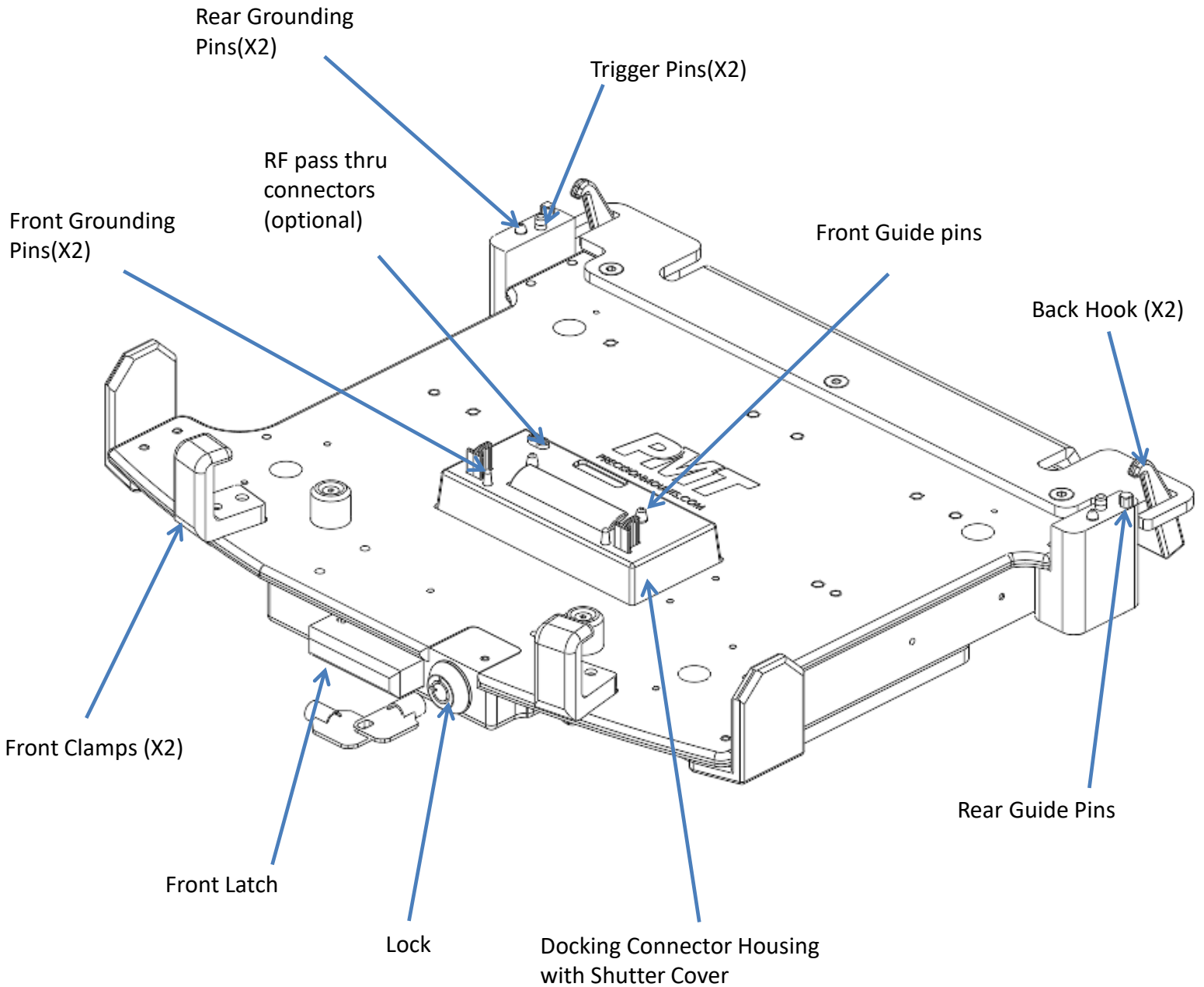
General Instructions continued

- In undocked position, DO NOT put fingers between the rear hooks and pin housing to avoid pinched fingers!

Gap

Description of Parts and Layout

Note: All pictures used in this guide are of Dual Pass Thru (DPT) (Part no: AS7.P055.102). However, processes and information relate to other variants of the same dock mentioned in previous page.

Front View

- Rear Grounding Pins(X2)
- Trigger Pins(X2)
- RF pass thru connectors (optional)
- Front Grounding Pins(X2)
- Front Guide pins
- Back Hook (X2)
- Front Clamps (X2)
- Rear Guide Pins
- Front Latch
- Lock
- Docking Connector Housing with Shutter Cover

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Description of Parts Continued

Rear View

External Antenna Switch. Switch must be in the "ON" or outward position when using external antennas

Power
15.6V DC IN

HDMI

Ethernet

EXT ANT 1

EXT ANT 2

Mounting Plate

Serial Port

VGA

USB 3.0 (X2)

Cable Management Plate

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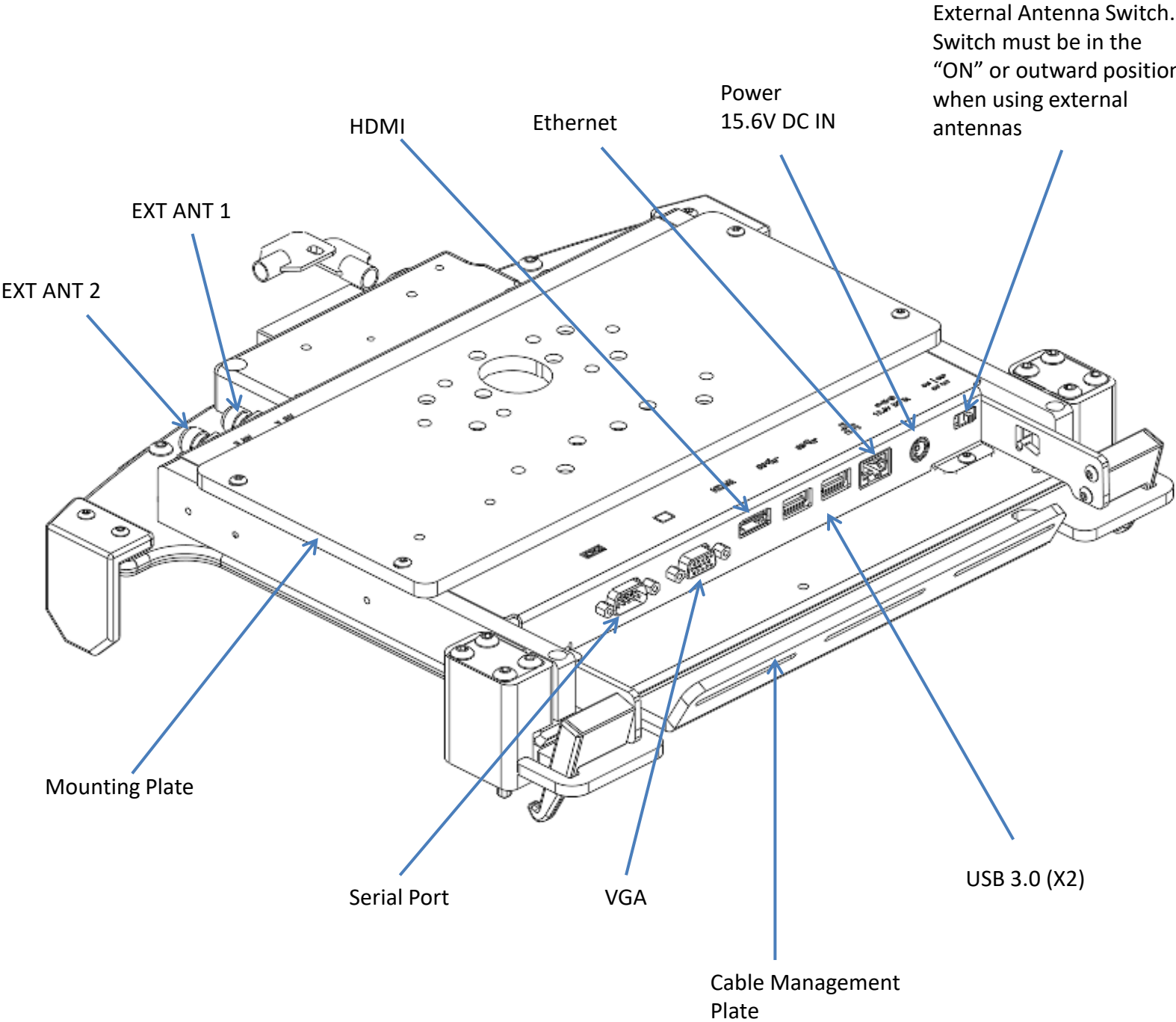
Cable Management & Mounting

Connect all cables securely to the ports on the dock and use tie straps to secure cables to the cable tie rail. Ensure to leave enough slack in wires exiting dock so that any positioning adjustments made to the dock will not strain the cables or connections, and so they do not interfere with dock or vehicle functions.

Use tie straps to secure opposite cable ends to another location in the vehicle.

Use the side mounted "P" clips for securing antennae cables routing from the front of the dock.

The standard mounting bracket that comes with the vehicle dock features an industry standard VESA 75mm x 75mm bolt pattern. This allows easy mounting to many pre-existing mounts as well as dedicated mounts from PMT. Multiple hole patterns are also present for ease of installation with various other infrastructure. Use the supplied #¼-20 or #10-24 hardware for attaching it to the mount and note the orientation of the mounting plate with the large hole towards the front of the dock.
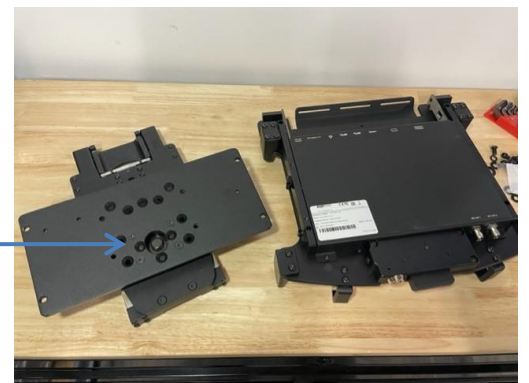
Attach the mounting bracket to the dock using the 4 supplied #10-24 UNC screws as shown above (after attaching the mounting plate to mount).

Double check all connections and hardware for proper function and tension before deploying.

Note - PMT recommends blue Loctite 243 (or equivalent) for all hardware (not supplied).

Docking the Laptop

Step 1:
Ensure that the dock is unlocked and unlatched. If locked, insert key and rotate lock 90 degrees counter-clockwise. If latched, push the latch inside such that the back hooks move all the way out.

Step 2:
Lead the front of the handle into the front hooks on the dock such that the pockets on keyboard line up with the front hooks. The side tabs should help aligning the laptop as well.

Step 3:
Push gently in the back center of the keyboard so that back hook latches. If any resistance is felt, remove the laptop and re-align. A click sound should be heard when the back hook latches. Verify the laptop is fully docked by lifting the laptop lightly. If properly docked the laptop will remain in place.

*The laptop can be docked into the dock with lid open or closed. If the lid is open, make sure that no keys are pressed while docking.

Dock the FZ55 laptop while pushing the **center rear of the laptop. If pushed on the side, make sure to check both hooks are fully engaged before any operation. Always push in the red area as shown in the picture.

Step 4:
For additional security, insert and rotate key 90 degrees clockwise and remove the key to lock the laptop in the docking station. The laptop is only fully secure once the key is removed.

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Undocking the Laptop

Step 1:
Ensure that the dock is unlocked. If locked, insert key and rotate lock 90 degrees counter-clockwise.

Step 2:
Use your thumb to push the latch in the front. This will push the back clamp out and the laptop will eject with a small click sound.

Step 3:
Once the laptop ejects, gently pull the laptop out of the dock from the rear.

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Regulatory Certification Information

Regulatory Model #: AS7.P055.102

PMT Model #'s & Description:
AS7.P055.100   Dock-Toughbook 55 Laptop-No RF
AS7.P055.102   Dock-Toughbook 55 Laptop-Dual RF
AS7.P055.104   Cradle-Toughbook 55 Laptop

Certifications:
EN ISO / IEC 17050-1:2004
CSA C22.2 NO.60950-1
ICES-003 / CISPR 32 / EN 50498
ISO 10605
MIL-STD-810G:CHG1
RoHS(2011/65/EU)

This device complies with Part 15 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.