

INSTALLATION INSTRUCTIONS

Product

PANASONIC TOUGHBOOK 30 MAG DOCKING STATION
7160-0225-00 THROUGH 7160-0225-12

Revision

Rev B

Form

INST-455

7 Pages

This instruction sheet is for the following products:

Panasonic Toughbook CF30 docking station with No integrated high gain antenna pass-thru cables.

Item No. 7160-0225-00 (Button lock, No RF)

Item No. 7160-0225-04 (Button lock, No RF, Int. power)

Item No. 7160-0225-07 (Auto lock, No RF)

Item No. 7160-0225-10 (Auto lock, No RF, Int. power)

Panasonic Toughbook CF30 docking station with single integrated high gain antenna pass-thru cable.

Item No. 7160-0225-01 (Button lock, Single RF)

Item No. 7160-0225-05 (button lock, Single RF, Int. power,

Item No. 7160-0225-08 (Auto lock, Single RF)

Item No. 7160-0225-11 (Auto lock, Single RF, Int. power)

Panasonic Toughbook CF30 docking station with dual integrated high gain antenna pass-thru cable.

Item No. 7160-0225-02 (Button lock, Dual RF)

Item No. 7160-0225-06 (Button lock, Dual RF, Int. power)

Item No. 7160-0225-09 (Auto lock, Dual RF)

Item No. 7160-0225-12 (Auto lock, Dual RF, Int. power)



**These instructions are for the docking station only. For instructions on features, set-up and operation of the Toughbook CF30 computer, please refer to the manuals provided by Panasonic with the computer.*

*** This docking station is designed to be used with a variety of Gamber-Johnson mounting systems. Installation instructions for other Gamber-Johnson products are provided with each individual product.*

Product Mounting Disclaimer

Gamber-Johnson is 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 Gamber-Johnson products full consideration of vehicle occupants, vehicle systems (i.e., the location of fuel lines, brakes lines, electrical, drive train or other systems), air-bags and other safety equipment is required. Gamber-Johnson specifically disclaims any responsibility for the improper use or installation of its products not consistent with the original vehicle manufactures specifications and recommendations, Gamber-Johnson product instruction sheets, or workmanship standards as endorsed through the Gamber-Johnson Certified Installer Program.

If you need assistance or have questions, call Gamber-Johnson at 1-800-456-6868

IMPORTANT SAFETY INFORMATION for INSTALLERS

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.

To properly install a Gamber-Johnson docking station you must have a good understanding of automotive electrical procedures and systems, along with proficiency in the installation and service of aftermarket vehicle equipment.

There are no adjustments required at any time of the electrical components within the docking station. ***Opening the port replication housing (EXCEPT TO INSTALL THE POWER CABLE) will void the product warranty.***

During Installation

- DO NOT connect this docking station to the vehicle battery until:
 1. ALL other electrical connections are made
 2. Mounting of ALL components is complete
 3. VERIFICATION that no shorts exist in the entire system

- DO NOT install equipment or route wiring or cords in the deployment path of any air bag.

- When drilling into the vehicle, DO make sure that both sides of the surface are clear of anything that could be damaged.

CAUTION: If wiring is shorted to the frame, high current conductors can cause hazardous sparks resulting in electrical fires or flying molten metal.

After Installation

- Test the docking station to ensure that it is working properly.

File these instructions in a safe place and refer to them when performing maintenance or re-installing.

WARNING: Failure to follow all safety precautions and instructions may result in property damage, serious injury or death.

PRE-INSTALLATION RECOMMENDATIONS

Conduct a "Bench Test"

Gamber-Johnson strongly advises a "bench test" be conducted to verify that all electronic and software issues are resolved prior to installation:

1. Make sure computer is operational by itself.
2. Insert computer into docking station and verify that the computer is operating in the dock.
3. Interconnect entire assembly and verify start-up of all components, including other equipment (printers, modems, scanners, etc.).

**Gamber-Johnson also recommends positioning of all mounts and equipment in the vehicle prior to the actual install to verify that mounting locations are safe and practical.*

POWER SUPPLY INFORMATION

Panasonic recommends using a Lind Auto Adapter (Lind part number PA1555-968) to power the docking station. It can be ordered from Gamber-Johnson (part number 11798) or directly from Lind Electronics, Minneapolis, Minnesota (952-927-6303).

Installation of the Power Jack:

Remove the #8-32UNC screw that attaches the Power Cable Cover to the bottom of the dock (See figure 1). Attach the Power Cable Pull Strap (located in the hardware bag) to the power jack as shown in figure 2. Plug the power jack into the input jack, located on the port replicator circuit board inside the docking station, and tuck the pull strap into the docking station as shown in figure 3. Replace the Power Cable Cover to hold the power jack in place as shown in Figure 4.

Figure 1

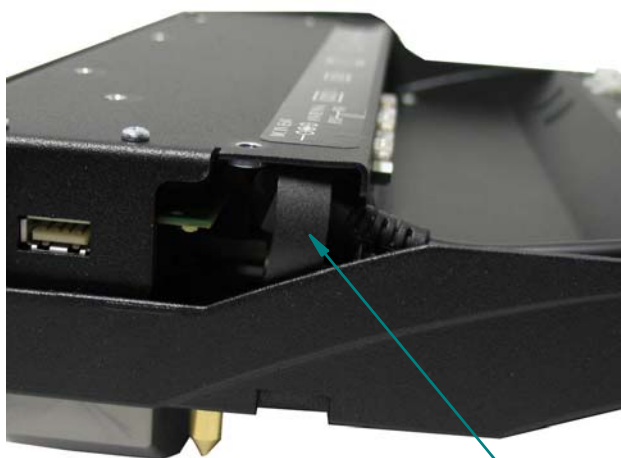


Remove #8-32unc screw and Power Cable Cover

Figure 2



Power Cable Pull Strap



Insert power jack into mating jack on port replicator board and tuck the pull strap into the electrical box.

Figure 3



Replace Power Cable Cover to hold the power jack in place.

Figure 4

Figure 5

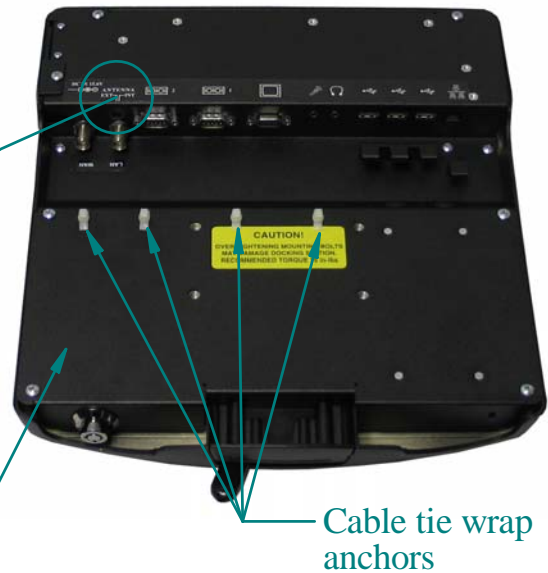
WIRELESS ANTENNA SWITCH

Wireless Antenna Switch
"EXT" / "INT"

If using an external antenna, connected by cable to the LAN/WAN ports on the dock:
Position the switch toward the "EXT" side.
See Figure 5

If using the wireless antenna built into the computer case or a PC Card type antenna:
Position the switch toward the "INT" side.
See Figure 5

Under side of the
docking station.



Cable tie wrap
anchors

CABLE RESTRAINT INFORMATION

Attach tie wrap anchors to the underside of the dock by pushing into the holes in the locations shown in Figure 5. Anchors are located in the hardware bag supplied with the dock.

Attach cable ties to the anchors as shown in Figure 6. Cables to be bundled using the cable ties at the users discretion.

The USB and Ethernet have a secondary restraint bracket which the cables can be tied to to allow for more support of the USB and ethernet cables. If the USB or ethernet cables used by the customer are odd sized and do not fit with the secondary restraint bracket simply remove the bracket and restrain the cables with the additional tie wrap anchors supplied in the hardware bag.

Figure 6



USB / Ethernet
support bracket

Assemble cable ties to the
anchors and route cables
as required for the application.

INSERTING COMPUTER into the DOCK

1. Make sure the sliding door (located on the back edge of the computer) has been opened, exposing the computer's docking connector. (See Figure 7)

2. Insert the computer:
- Align the center notch in the computer with the front retainer tab.
 - Lower the back of the computer, pressing down onto the locating pins.

4. Pull the docking handle towards the left side of the dock until the latch catches and holds the handle. (See Figure 9)
The push button latch can be locked for added security.

5. Unit is powered and ready for use.

**Docking station will operate with computer screen opened or closed.*

Figure 7



Sliding Door/Docking Connector

Figure 8

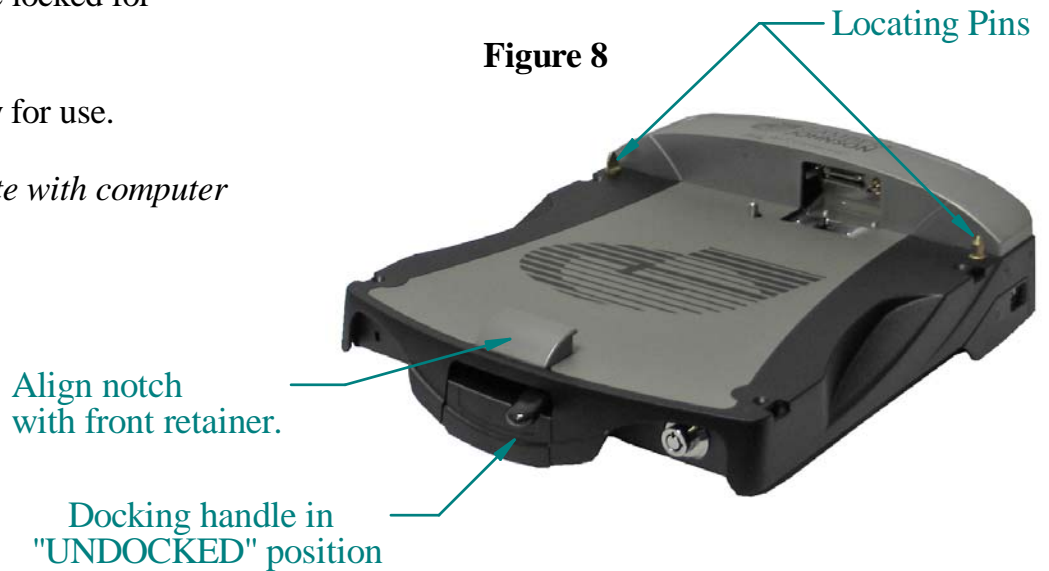


Figure 9



REMOVING COMPUTER from the DOCK

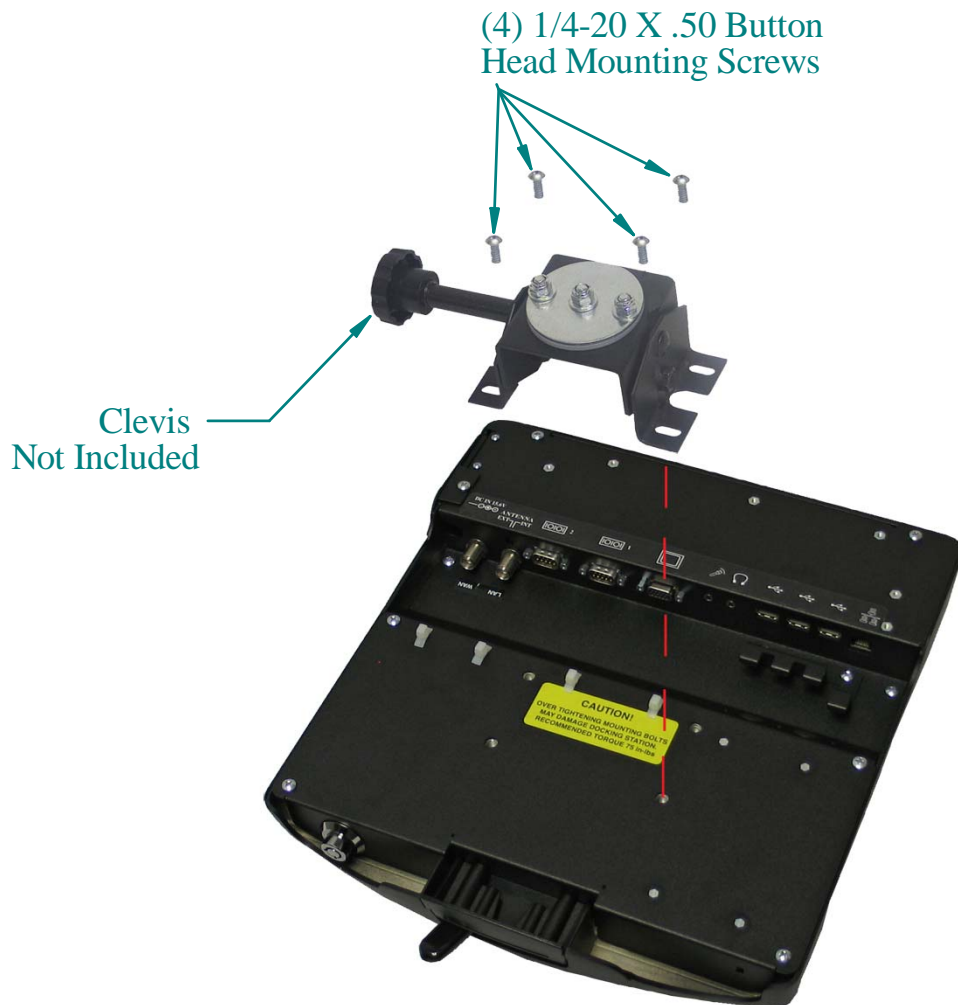
1. Push latch button in (Unlock with key if locked).
2. Lift the back of the computer off of the locating pins.
3. Lift the computer out from under the front retainer tab.

MOUNTING THE DOCKING STATION

Mount docking station to mounting system using the four 1/4-20unc mounting holes on the bottom of the dock. Four 1/4-20unc X .50 Button Head Mounting Screws are provided in the hardware bag.

**** Recommended Torque 75 in-lbs. Over Tightening Mounting Hardware May Damage Docking Station.**

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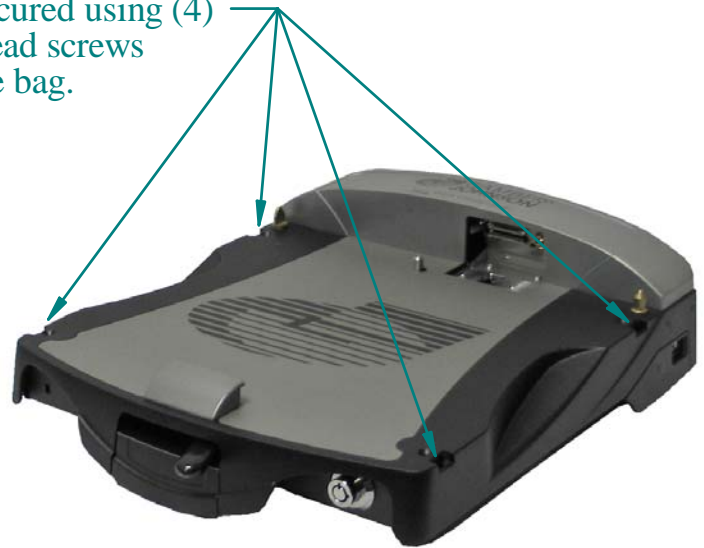
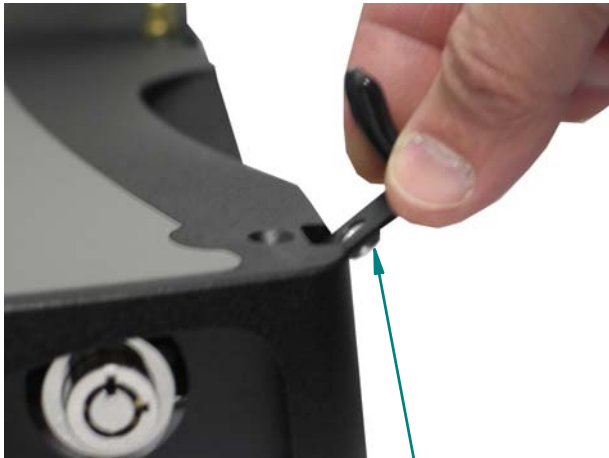


SEVERE VIBRATION INSTALLATIONS

Gamber-Johnson highly recommends the use of the vinyl covered side restraints in severe vibration applications. Restraints and mounting hardware are provided with the dock in the hardware bag and are assembled to the dock as shown in Figure 12.

Figure 10

Side restraints are secured using (4) 8-32unc X .38 flat head screws provided in hardware bag.

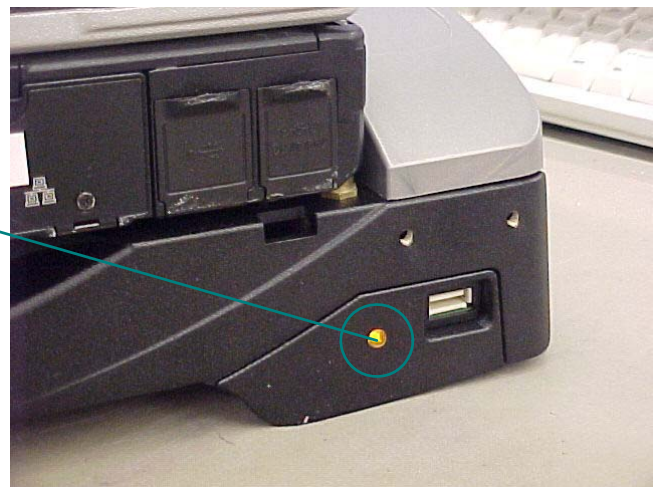


Angle Side Restraints upward and insert into side cutouts on docking station.

DOCK INDICATING LED

Figure 11

Dock Indicating LED



With computer installed in the dock, the Dock Indicating LED, located on the right side of the dock, can be used as a troubleshooting tool. (See Figure 11)

GREEN: All ports are ready to use.

ORANGE: USB port and LAN port do not function, external power is not connected.

RED: PC is not supported or connection is not made.

RED (BLINKING): Error has occurred in the firmware. Stop using at once and contact Panasonic Technical Support.

NOT LIT: PC not installed or PC is OFF, Standby or Hibernation.