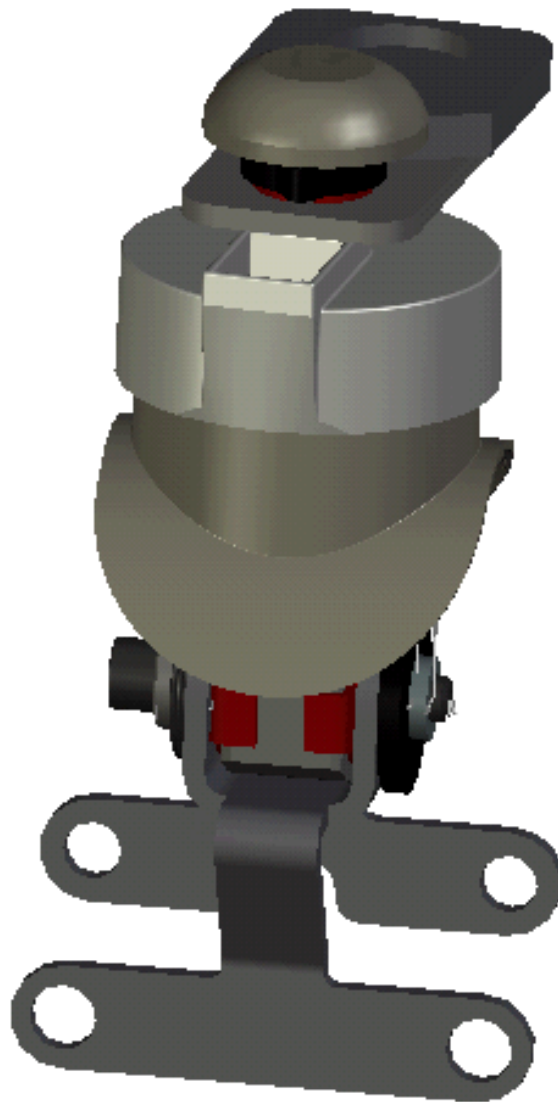


Technical Bulletin

PDI-P10LCD Pre-Tensioned Swivel Cartridge



PDI[™]

Communication
Systems, Inc.

40 Greenwood Lane
Springboro, Ohio
45066

PH: 937-743-6010

FX: 937-743-5664

<http://www.pdiarm.com>

Replacement Instructions

BACKGROUND

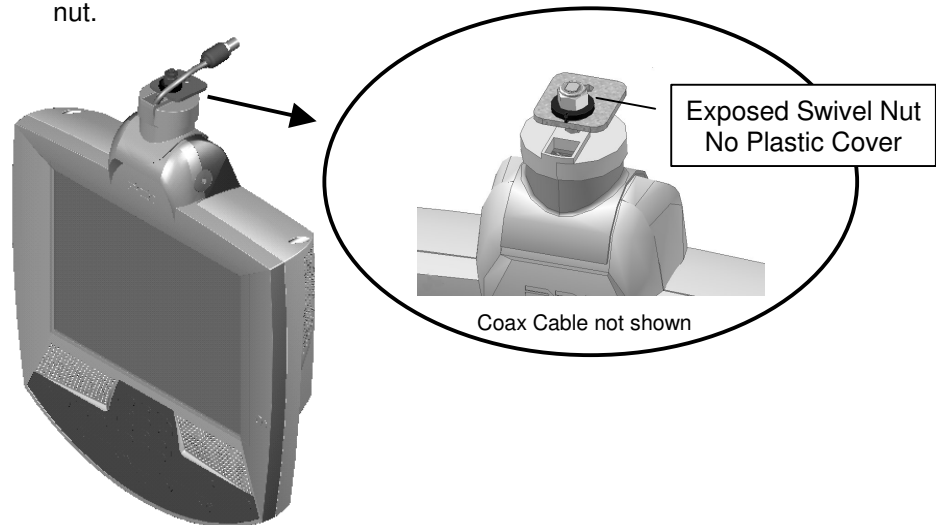
Early production model PDI-P10LCD arm mounted televisions utilized a new swivel design that required a tension nut adjustment upon initial installation. Unfortunately, some installer's neglected this important adjustment and simply "hung" the P10LCD on the arm without tightening the tension nut per the instructions. Without proper swivel nut tension, the internal swivel stop mechanism did not completely engage allowing the TV to turn beyond 360° of rotation. The internal coax cable would wrap itself around the swivel stem and would eventually break rendering the TV inoperative.

The newer Pre-Tensioned Swivel allows a simpler installation method that does not require a tension nut adjustment. This instruction details the replacement of the standard swivel with a Pre-Tensioned Swivel on the P10LCD television.

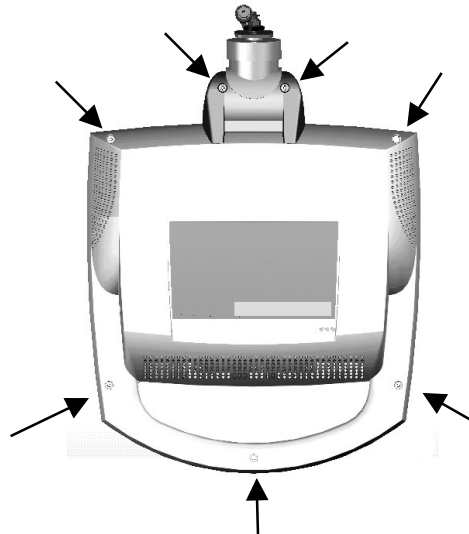
*Replacement
Swivel Kit
PD168-006*

REPLACEMENT PROCEDURE

1. Remove the PDI-P10LCD Television from the support arm and verify that the swivel is the standard type. The standard swivel has the tension nut exposed on the top of the swivel stem without a plastic cover hiding the nut.



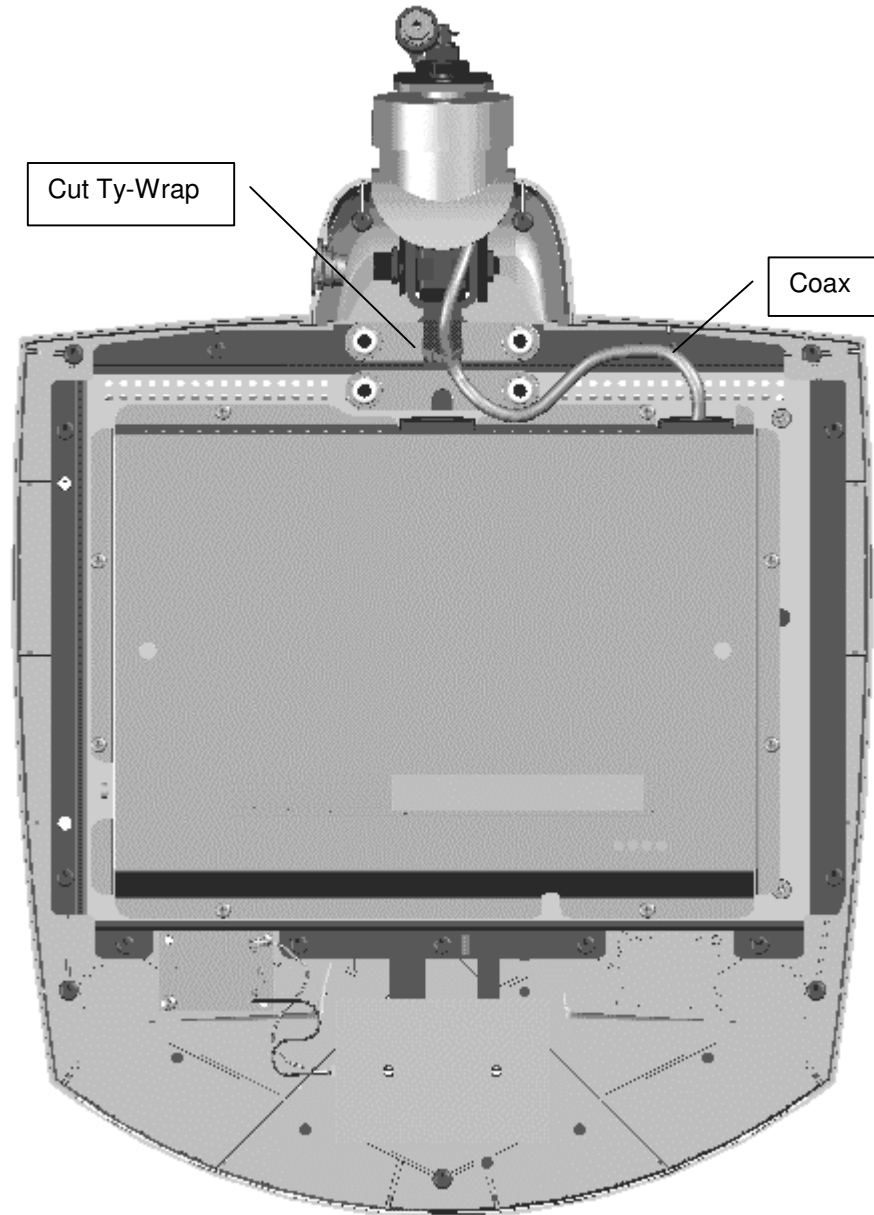
2. Place the TV on its face and remove the 7 back cabinet screws.



3. Remove the back cover and expose the rear of the swivel.

Cut the Ty-Wrap that holds the coax cable to the swivel.

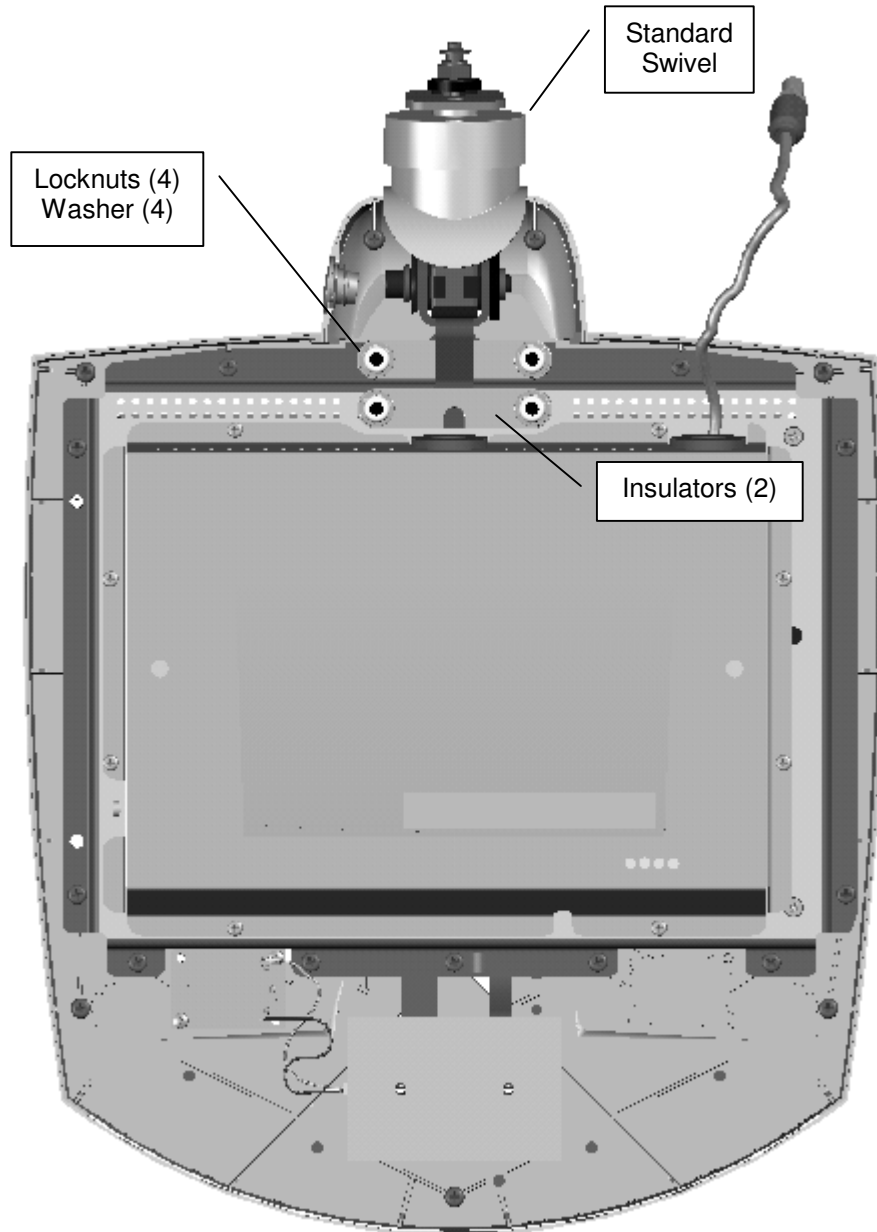
Remove the coax from the swivel housing. Slide the rubber boot down the coax and away from the F connector. Pull the boot first through the plastic swivel housing, followed by the F Connector.



4. Remove 4 Locknuts and 4 Washers from the swivel.

Remove the insulators (2) from the swivel.

Remove the standard swivel assembly.



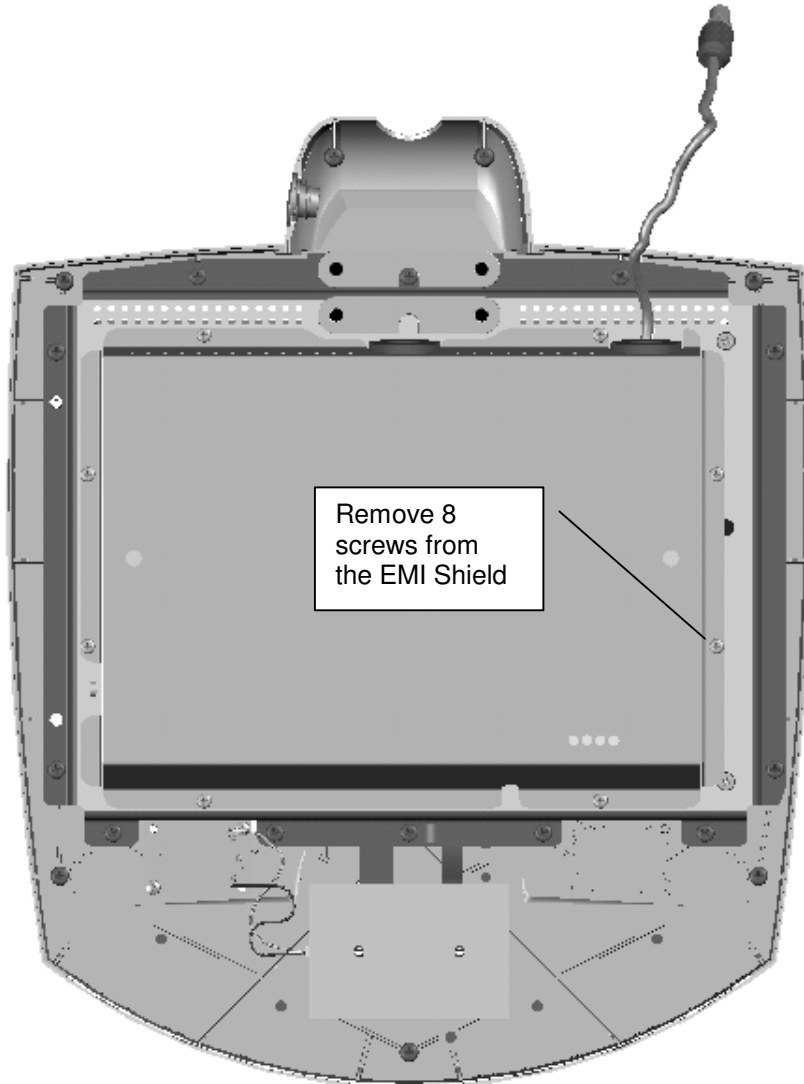
Inspect the coaxial cable for signs of damage such as a cut jacket with exposed copper braid or opened center conductor. If the coax cable is damaged, follow these replacement instructions, otherwise proceed to step 5.

COAX CABLE REPLACEMENT

- a. Remove 8 screws from the EMI Shield. Remove the shield exposing the internal circuit board.

CAUTION

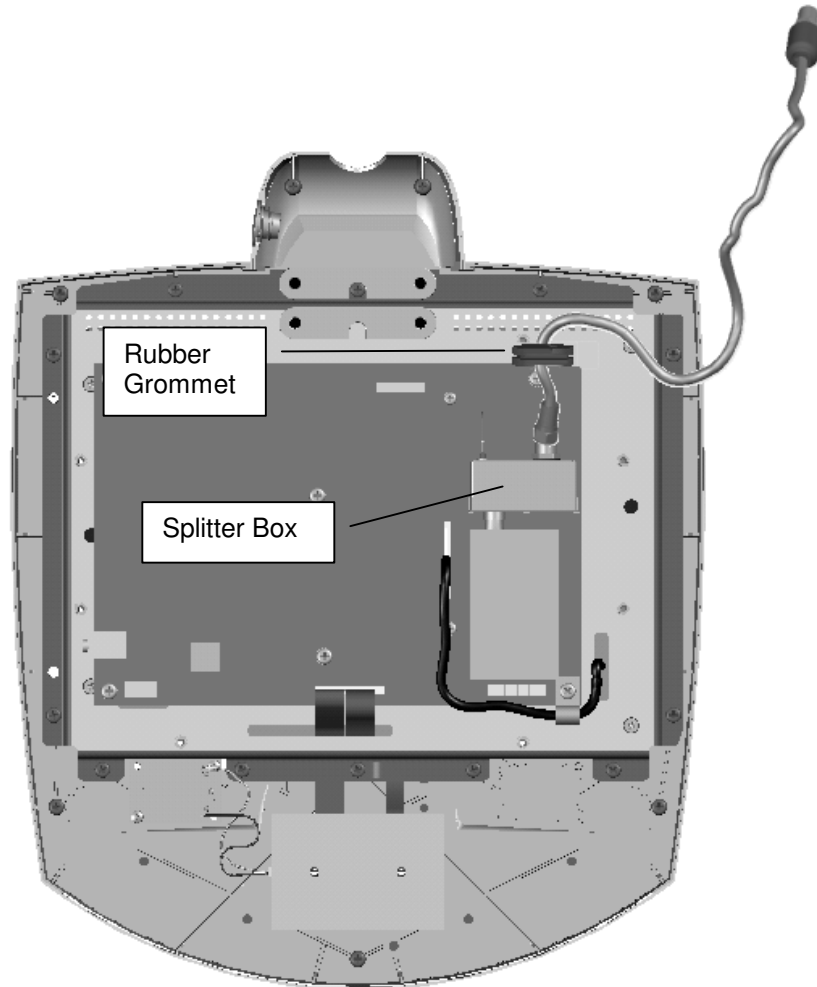
Use ESD protection when replacing the coax cable. Failure to use proper ESD grounding Mat and Wrist Strap could lead to catastrophic failure of the TV.



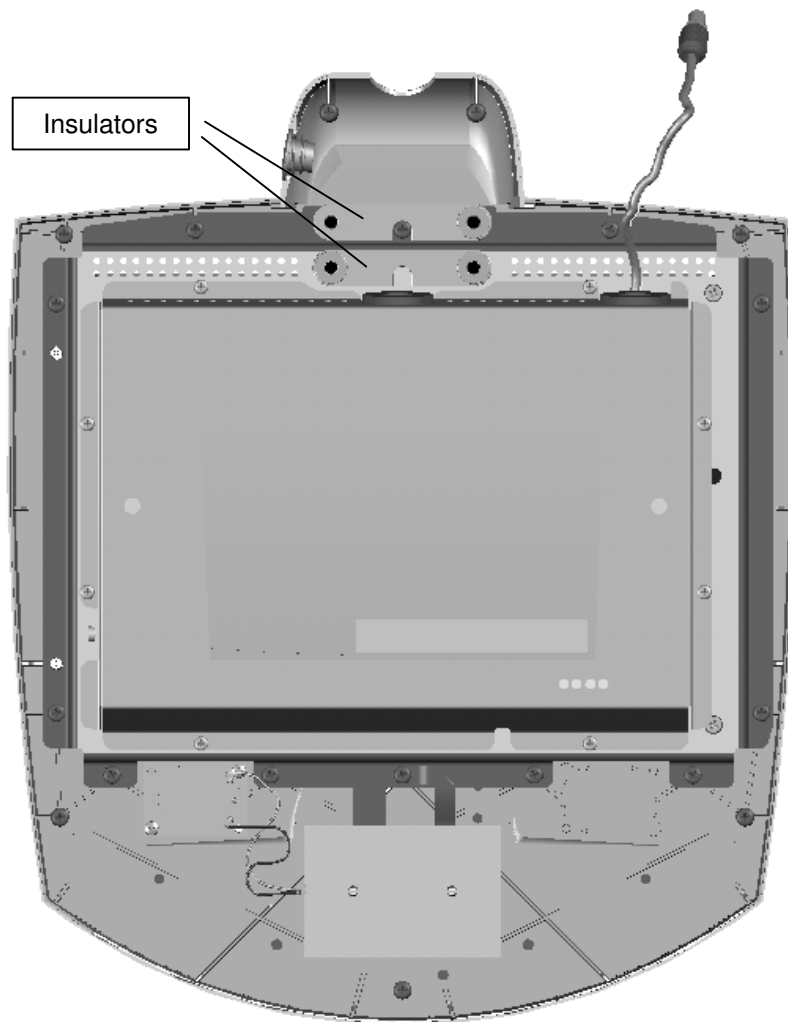
- b. Loosen the F connector and remove the coax from the splitter box.

Replace the coax making sure to re-install the rubber grommet as shown. Wrench tighten the F connector to the splitter box.

Re-install the EMI. The rubber grommet should seat in the EMI shield's opening. Attach EMI shield using 8 screws.

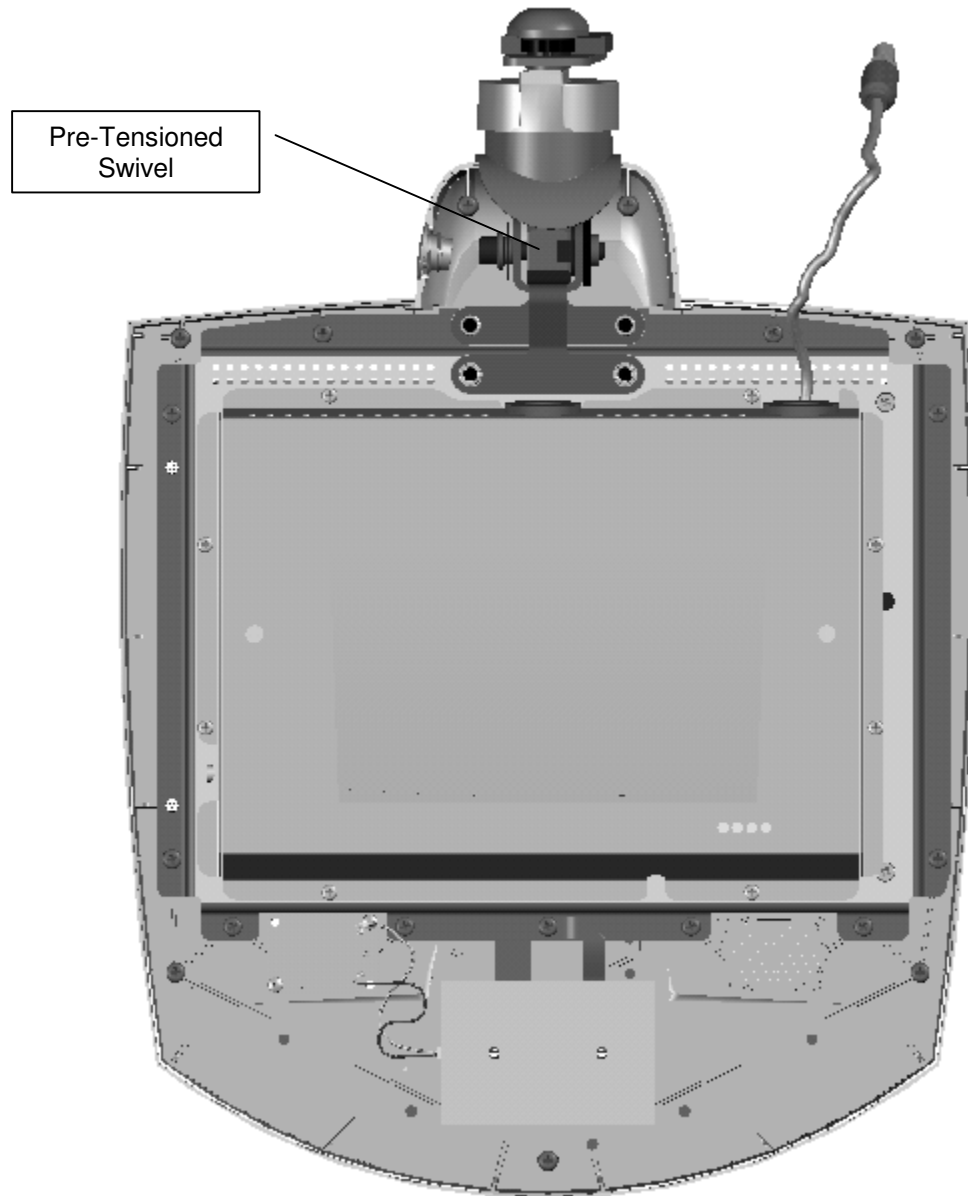


5. Verify that the bottom insulators remain on each of the swivel studs as shown.



6. Mount the Pre-Tensioned Swivel replacement over the exposed studs.

Place two top insulators over the swivel studs. NOTE: Insulator hole protrusions should face down.

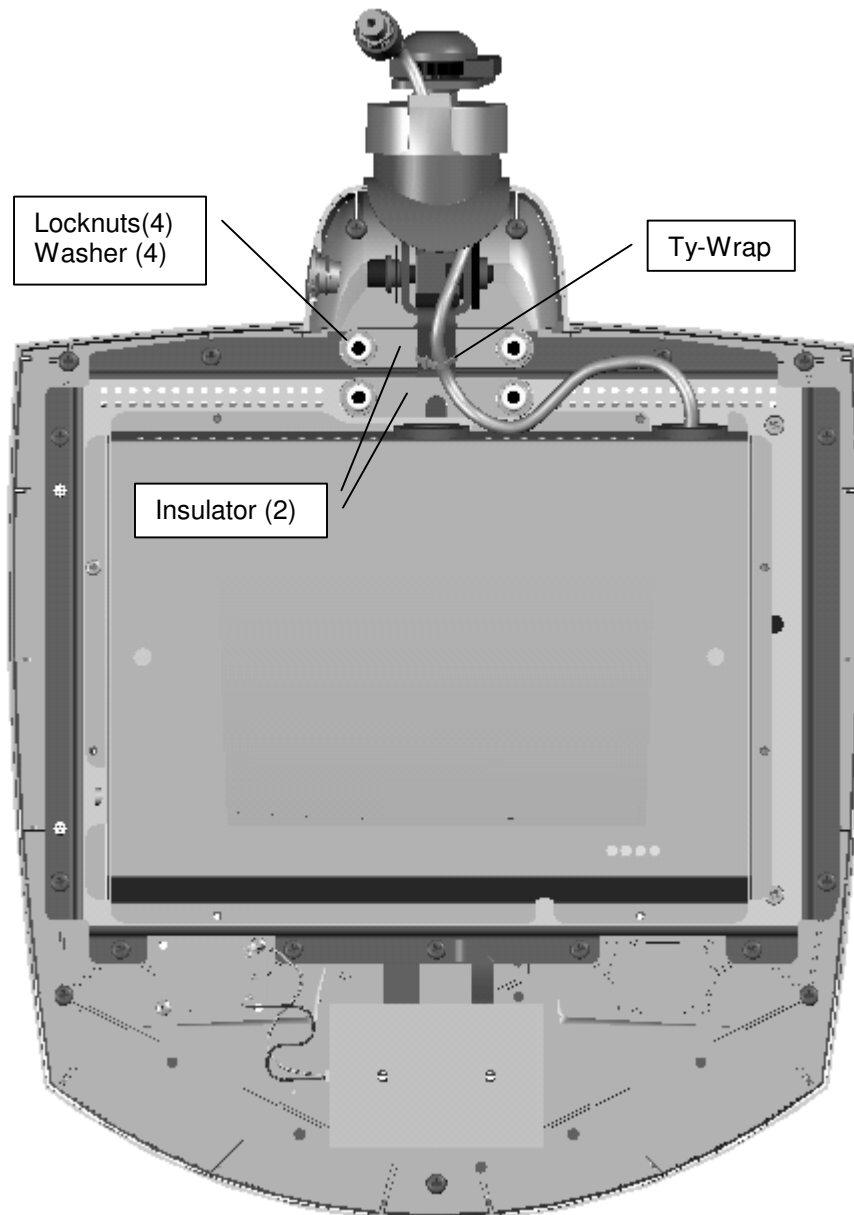


7. Install a washer onto each stud.

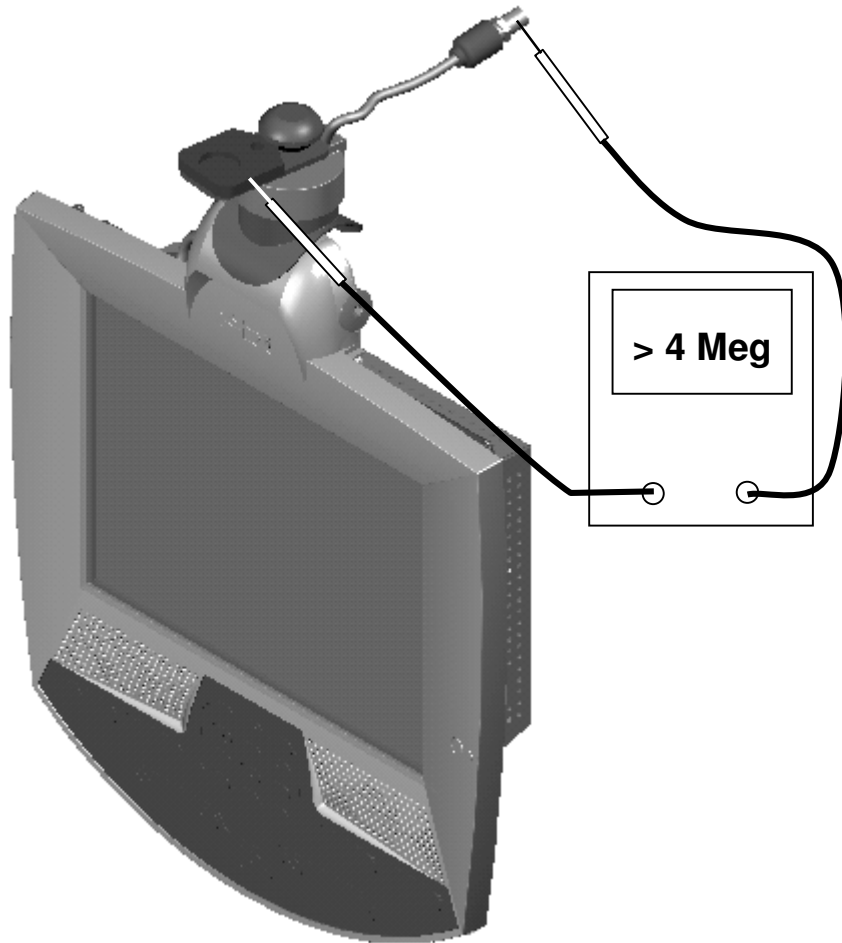
Install a locknut on each stud. Tighten to 11 inch-pounds of torque.

Slide the rubber boot on the coax away from the F connector and route the coaxial cable, F connector first followed by the boot, up through the rectangular opening in the swivel.

Ty-Wrap the coax at the bottom of the swivel bracket's rear flange near the plastic insulator. The Ty-Wrap must be positioned at the bottom of the swivel bracket's rear flange to allow the rear cabinet to mate correctly.



8. Measure the DC resistance between the input coax shield and swivel as shown. The resistance value should read greater than 4 megohms. A lesser reading indicates a possible missing or poorly fit insulator or a possible short between the internal metal U-Bracket and chassis ground, which could increase leakage currents touchable by the patient. If a reading less than 4 megohms is seen please rectify the problem. It is recommended that the reading of the swivel resistance be recorded as part of the service record.



9. Attach the back cabinet to the TV using 7 screws.
10. Install the TV back onto the support arm using the new 1/4-20x3/4" socket head cap screw supplied. The socket head cap screw requires tightening to secure the TV to the arm. The swivel nut (under the plastic cover) is pretensioned and does not require tightening. Verify the installed television meets leakage current requirements by measuring all exposed conductive parts (Swivel and Earphone Jack).

END OF PROCEDURE