

## PDI 500 Series Suspension Arm Installation Instructions



This symbol is intended to alert the user that parts inside the product are a risk of electrical shock to persons.



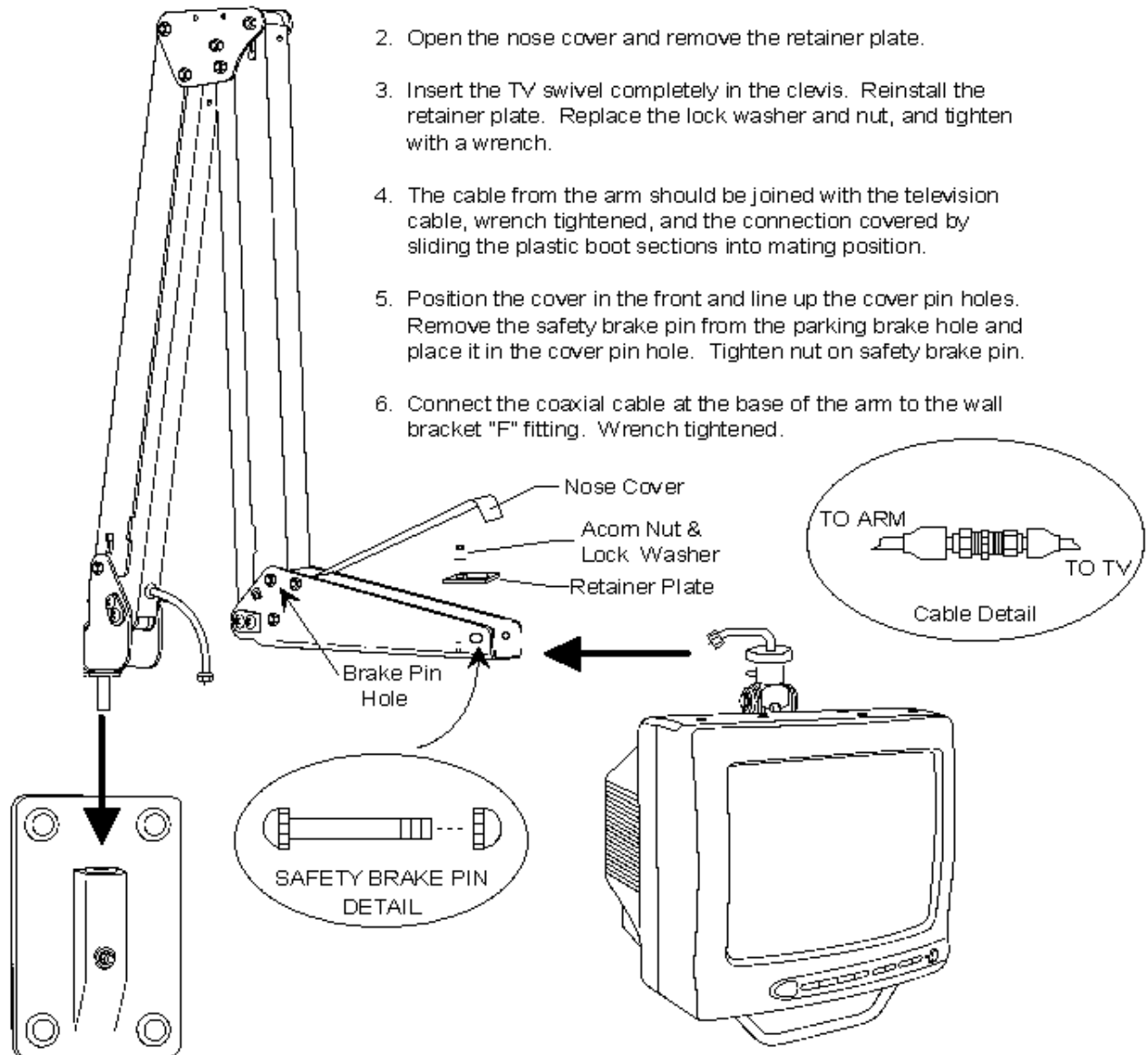
This symbol is intended to tell the user that important operating and servicing instructions are included with this product.

THIS INSTALLATION SHOULD BE MADE BY A QUALIFIED SERVICE PERSON AND SHOULD CONFORM TO ALL LOCAL CODES. READ AND FOLLOW THE SAFETY INSTRUCTIONS BEFORE ATTEMPTING THIS INSTALLATION.



The Safety Brake Pin must remain in the safety brake hole whenever the television set is removed from the arm or when the arm is removed from the wall bracket to prevent the arm from springing open.

1. Place the arm's base pin into the wall bracket.
2. Open the nose cover and remove the retainer plate.
3. Insert the TV swivel completely in the clevis. Reinstall the retainer plate. Replace the lock washer and nut, and tighten with a wrench.
4. The cable from the arm should be joined with the television cable, wrench tightened, and the connection covered by sliding the plastic boot sections into mating position.
5. Position the cover in the front and line up the cover pin holes. Remove the safety brake pin from the parking brake hole and place it in the cover pin hole. Tighten nut on safety brake pin.
6. Connect the coaxial cable at the base of the arm to the wall bracket "F" fitting. Wrench tightened.



### IMPORTANT SAFETY INSTRUCTIONS

Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. NOTE: THIS ARM CONTAINS INTERNAL SPRINGS UNDER TENSION. AN ARM RECOIL ACCIDENT HAZARD IS POSSIBLE. FOLLOW ALL SAFETY INSTRUCTIONS AT ALL TIMES.



Keep the safety brake pin in place UNTIL the arm is on the wall mount and TV is in place. Then, remove and use to secure cover plate.



To prevent fire or shock hazard, DO NOT EXPOSE this arm to rain or moisture.



Always put SAFETY BRAKE PIN in place before removing TV arm, or, arm from wall.

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. This unit REQUIRES periodic maintenance. Refer to maintenance manual for instructions. SAVE this instruction sheet for future reference.

## ARM MAINTENANCE MANUAL

Very little maintenance should be required for your PDI Arm to give years of trouble free service if the following lubrication and inspection procedures are followed.

### 1.INSPECTION -

Occasionally check the base pin for any evidence of bending or distortion, due to a patient using THE ARM for assistance in getting in or out of bed or any other misuse. If THE ARM is not mounted with the base pin absolutely vertical, it will have a tendency to drift and will not properly counter balance the television. Be certain that the wall THE ARM is mounted to is vertical.

### 2.SPRING ADJUSTMENT

- See adjustment procedure for your ARM model.

### 3.LUBRICATION

- At least once a year a drop of light machine oil should be put on each pivot point in the nose, elbow and base. DO NOT PUT OIL ON THE FRICTION DAMPER PADS (PDI-114)!

### 4.REPLACEMENT OF COAX CABLE

- With the television removed and nose cover off, loosen the retaining screw which holds the cable clamp inside the nose.

Cut connector from cable at the base of THE ARM and solder new shielding of cable end to end.

Push approximately five and one half feet of new cable through the hole in the base of THE ARM and pull the resulting loop out of the opening at the back of THE ARM behind the base bracket.

With THE ARM fully extended (both front and rear section parallel to the horizon) pull the cable from the nose end until the end of the new cable protrudes two inches beyond the end of the nose. Push cable loop through the hole at the base of THE ARM and allow rear arm section to travel upward to full vertical position. (Front arm remains parallel to the horizon).

Pull cable snug through hole in rear arm section and reposition slightly 500 Series through the nose since the cable wraps around components at the elbow. Push the cable in an additional half inch from the nose to guarantee adequate play at the elbow and retighten the cable clamp.

With front arm section in extended position, use index finger to push cable up slightly through the ends with "F" in the nose applied to leave one and a quarter inch from the leading edge of the nose to the tip of the exposed center conductor. The plastic boot which covers the connection within the nose must be placed on the cable before the "F" connector is applied. Apply connector. Cut wire trailing from base of arm to desired length and apply connector.

### 5.TORQUE ADJUSTMENT OF PIVOT SCREWS

- All screws in THE ARM are tightened securely, and loctited, at the factory and do not require specific check with a torque wrench. IF THE THREADS ARE STRIPPED IN THE NOSE, ELBOW OR BASE, THIS PART NEEDS REPLACEMENT - DISCONTINUE USE IMMEDIATELY.

Although THE ARM parts list is shown on the next few pages, it is not recommended that THE ARM be repaired in the field. The spring tension is such that grave harm can be done to those not experienced with equipment of this type.

Check for loose pivot screws (PDI-120) and any visible evidence of wear or damage. Cycle the arm to see if it feels tight or makes squeaking or grating noise. If it does it needs LUBRICATION.

## ARM ADJUSTMENT PROCEDURE

There are two (2) springs in the Model 500 arm that may be adjusted.

Adjustment screws all have 7/16 hex heads. Use SPECIAL TOOL PDI-519 to effect these adjustments. A 7/16 hex socket or nut driver may be used with care. It is easy to round off the corners of the adjusting screws without the proper tool. (IT IS RECOMMENDED YOU DO NOT USE A POWER DRIVER OR ELECTRIC DRILL.) Adjustment is affected by turning the screw clockwise to increase tension.

Adjustment screw Number 1, at the elbow, can be accessed by removing the top cover of the elbow. It is best adjusted with rear arm in the horizontal position and the front arm vertical.

Adjustment screw Number 2 is reached from the opening of the rear of THE ARM, just above the base pin. This is best reached with THE ARM back section in the horizontal position.

**CAUTION: CARE MUST BE TAKEN NOT TO ALLOW THE TV TO FALL FROM THE NOSE WHEN THE NOSE COVER IS REMOVED.**

**TAKE GREAT CARE IF THE TV IS REMOVED FROM THE ARM. THE SPRINGS ARE QUITE POWERFUL AND INJURY CAN RESULT IF THE ARM IS NOT HANDLED CAREFULLY. DO NOT MOVE THE ARM UNTIL THE SAFETY PIN IS IN POSITION.**

## ADJUSTMENT PROCEDURE:

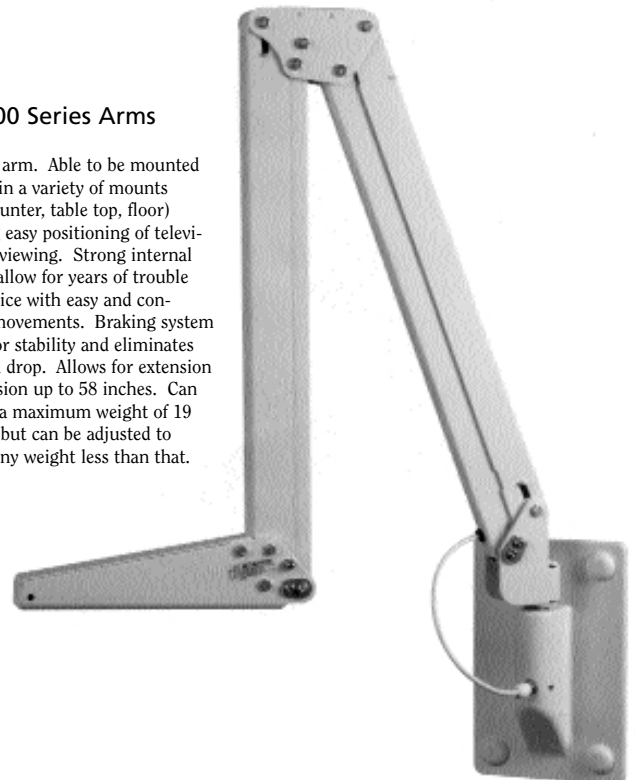
- (1) Loosen the brake screws by one (1) turn.
- (2) Adjust the spring tension screws as outlined above. Normally, it will take 4-5 turns maximum to adjust THE ARM. The adjustment should be such that THE ARM tends to rise gently. When the brakes are re-applied this will balance perfectly.
- (3) Re-tighten the brake screws (PDIBHSCS 2520 38). These should be tightened to snug.

**CAUTION:THE ADJUSTING SCREWS TURN QUITE EASILY, DO NOT FORCE.**

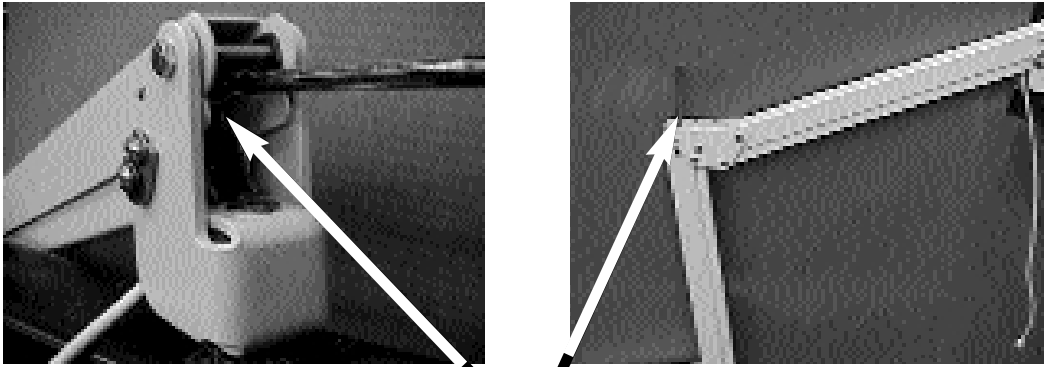
Do not attempt to adjust your arm to carry more weight than it is designed to carry, serious injury may result. If doubt exists, call your installer or the factory. **NEVER** transport THE ARM without SAFETY PIN in place.

### PDi 500 Series Arms

Support arm. Able to be mounted directly in a variety of mounts (wall, counter, table top, floor) allowing easy positioning of television for viewing. Strong internal springs allow for years of trouble free service with easy and controlled movements. Braking system allows for stability and eliminates drift and drop. Allows for extension of television up to 58 inches. Can support a maximum weight of 19 pounds, but can be adjusted to almost any weight less than that.

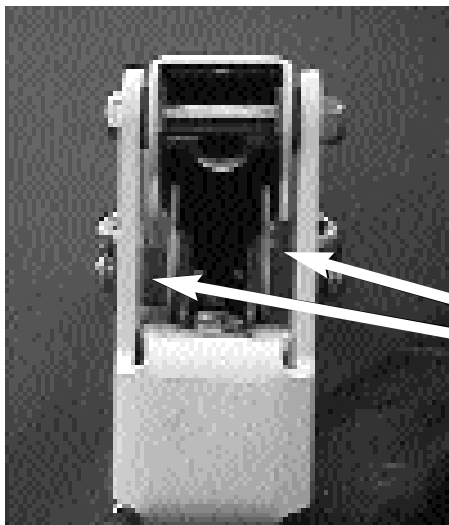


**500-SPRING ADJUSTING POINTS**



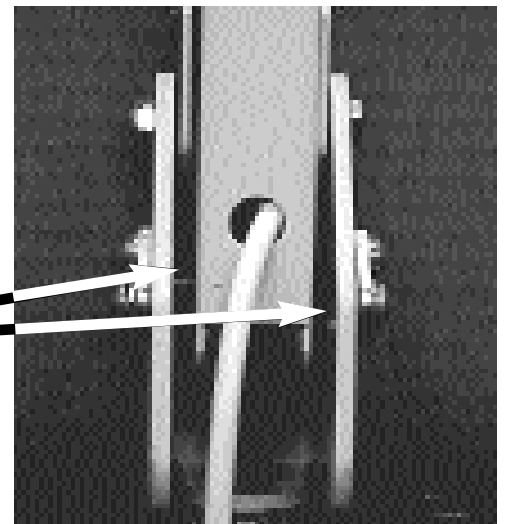
Spring Adjusting points

**500- INSPECTION AND LUBRICATION POINTS**



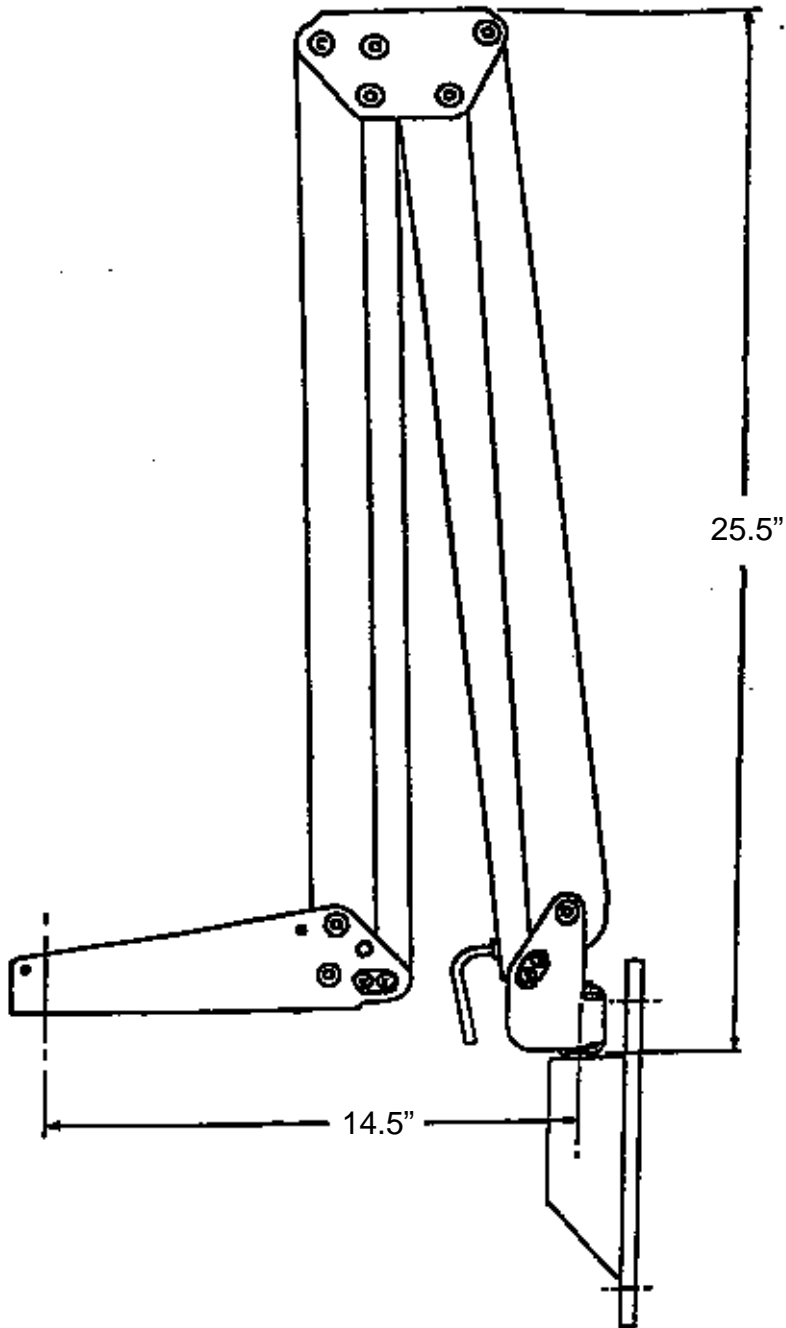
BASE (back view)

Inspection and  
Lubrication points



BASE (front view)

PDi 500 series arm  
supports up to 19 lbs.



**500 STYLE ARM  
PARTS LIST**

PART/ITEM	DESCRIPTION	QUANTITY/ASS'Y
PDI-102/A	BRAKE END HUB	4.00
PDI-107	PIV ECCENT	4.00
PDI-112	BRAKE LINK BASE	2.00
PDI-113	BRAKE-NOSE SHOE	2.00
PDI-114	BRAKE PAD	4.00
PDI-148	NOS COV RET & PARK	1.00
PDI HHCS 2520 600	(P) SPRING ATT BLT	4.00
PDI BHSCS 2520 38	PIVOT ECC BOLT	4.00
PDI BHSCS 3630 100	(P) BK SCW 1/4-20/X1(ZINC PLT	4.00
PDI SCW 25	(P)BRAKE TENS WASH	4.00
PDI TLW 25	(P)PIV ECC LOCK WASH	4.00
PDI AN 2520	(P) NOS COV NUTS (ELCT N	2.00
PDI BHSC 1032 38	(P)RG-59 CLMP BLT 10-32-3/8	1.00
PDI HHCS 2520 50	(P) BAS PIN BOLT 1/4-20X 1/2 HH	1.00
PDI FW 25	(P) 1/4 FLAT WASH, BSE PN WS	1.00
PDI-208S	BASE PIN - 5/8" SHANK	1.00
PDI-247	NOSE CLAMP-RG 59 CBL	1.00
PDI-510C	WIDE ARM ASSY, (REV A)	1.00
PDI-598	WIDE ARM ASSEMBLY	1.00
PDI-511C	NARR ARM ASSY (REV A)	2.00
PDI-513	SPRING ATT. BAR	2.00
PDI-516	WIDE ARM BUSHING	8.00
PDI-518	PIVOT SLEEVE	7.00
PDI-520C	ELBOW	2.00
PDI HHCS 25201 92	(P)PVBLT.1/4-20*1.92HXHHD	5.00
PDI SLN 2520	(P)STOV LOCK NUT	9.00
PDI-525C	ELBOW COVER	1.00
PDI-527	(REV A) NARR ARM HUB	4.00
PDI-530C	NOSE	1.00
PDI-531	FRONT SPRING HOOK	1.00
PDI-532	NOSE SPACER	2.00
PDI HHCS 25202 10	PVBLT 1/4-20*2.1"HXHDC	4.00
PDI-536C	NOSE COVER	1.00
PDI-540C	BASE	1.00
PDI-552	FRONT SPRING ASSEMBLY	1.00
PDI-553	REAR SPRING ASSEMBLY	1.00
PDI-563	CABLE ASSEMBLY	1.00