







PDi Suspension Arm

Maintenance Instructions

Document Number: PD196-261R1

	This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.
	This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

	<div style="background-color: black; color: white; text-align: center; padding: 5px;">CAUTION</div> <div style="text-align: center; padding: 5px;">RISK OF ELECTRIC SHOCK, DO NOT OPEN!</div>	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL		

	Ce symbole indique qu'une tension dangereuse constituant un risque de choc électrique est présente dans cet appareil.
	Ce symbole indique qu'il existe des instructions d'utilisation et d'entretien importantes dans la documentation accompagnant cet appareil.

	<div style="background-color: black; color: white; text-align: center; padding: 5px;">AVERTISSEMENT</div> <div style="text-align: center; padding: 5px;">RISQUE DE CHOC ELECTRIQUE, NE PAS OUVRIR!</div>	
AVERTISSEMENT: AFIN DE REDUIRE LE RISQUE DE CHOC ÉLECTRIQUE, NE PAS RETIRER LE COUVERCLE. L'APPAREIL NE CONTIENT AUCUN COMPOSANT SUSCEPTIBLE D'ÊTRE RÉPARÉ PAR L'UTILISATEUR. CONFIER L'ENTRETIEN À DU PERSONNEL QUALIFIÉ		



CAUTION: If the TV is removed, exercise extreme care handling the ARM. The springs are quite powerful and serious injury can result from improper handling. NEVER transport THE ARM without the SAFETY PIN in place.



Regular maintenance on the PDi suspension arms should be performed quarterly and immediately should you notice anything unusual in the function of the arm. If you have reason to suspect improper installation of your arm, contact PDi for instructions.

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SPRING ADJUSTMENT PROCEDURE

This adjustment is applicable on the 400 and 500 series arms if they are sagging or no longer holding position.

NOTE: The 1000 series arms have no adjustable springs. If the arm is not holding position (and has the proper monitor/weight) it must be removed and serviced to replace spring.

TOOL LIST:

1. Phillips Screwdriver
2. 7/16" Socket And Ratchet Or 7/16" Nut Driver
3. PDI-519 adjustment tool (for 500 series arms)

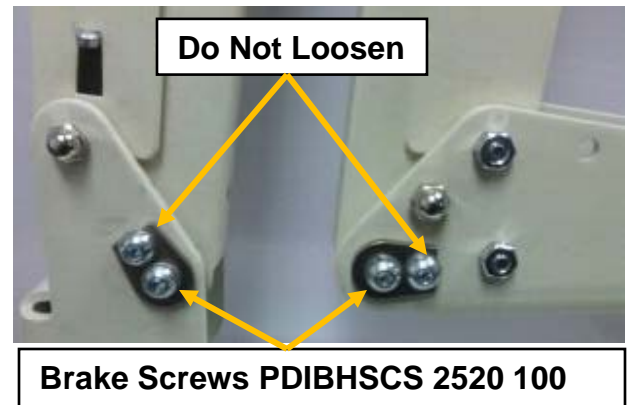


CAUTION: These adjusting screws turn quite easily, if force is required you are either at the limit of adjustment on that screw or you have interference. **DO NOT FORCE.**

ADJUSTMENT: The screw will tighten the springs when turned clockwise. Before adjusting, loosen the brake screws (PDI BHSCS 2520 100) one (1) turn, retighten to 1 turn.

Normally 4 to 6 turns of the spring adjusting screw will effect adjustment; this moves the spring.050 (1/20th) of an inch per turn.

It is recommended that both springs in an arm section (front or back) be adjusted equal amounts.



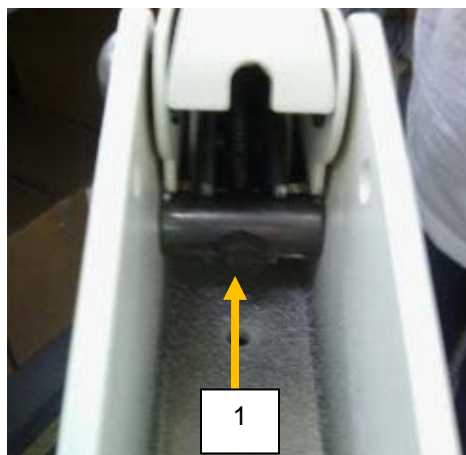
CAUTION: If the adjustment screw bottoms while adjusting or if after adjusting you hear a "clicking" noise, you may have drawn the spring against the pivot (PDI-111). If this happens, back off the adjustment one turn.

There are four (4) springs in most of the 400 Series arm that may be adjusted.
There are two (2) springs in the 500 Series arm that may be adjusted.

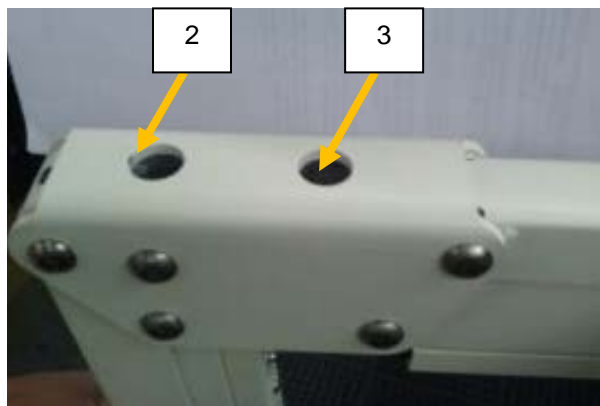
Adjustment screws all have 7/16" hex heads. These may be adjusted by using a 7/16" nut driver or 7/16" hex socket and ratchet drive. It is recommended that you do not use a drill or power driver. Increased tension is achieved by turning the adjusting screws clockwise.

SPRING ADJUSTING POINTS

(Cables are not shown for clarity)



Located in the nose of the arm, adjustment screw (1) is reached by removing the nose cover (PDI-536C) and the arm in the extended position.



Located in the elbow of arm adjustment screws (2 and 3) can be accessed through the hole in the top of the elbow after removal of access caps (PDI-146). They are best adjusted with the elbow in the retracted position.



Located above the base pin, adjustment screw (4) is reached from the opening at the rear of the arm, just above the base pin (PDI-214C) with the arm in the extended.



PDi adjustment tool PDI-519

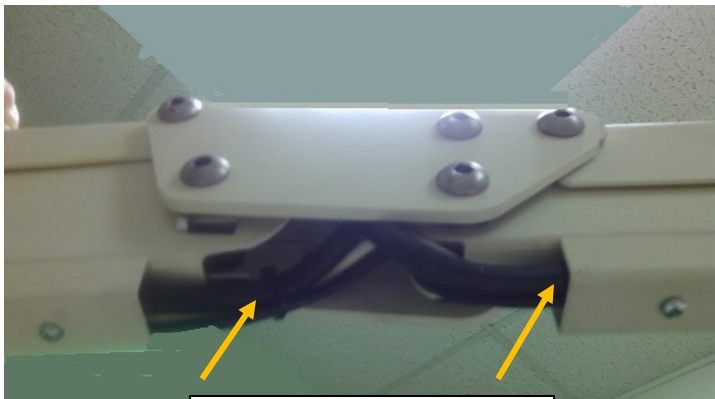


In the elbow of arm, adjustment Screws 2 and 3 shown with tool.

CABLE INSPECTION POINTS

These points are similar between all arm models.

Check these areas for wear on cables. The cable placement is similar between all arm model. Replace cables as necessary.



Cables at the elbow



Cables by base pin



Cables in nose

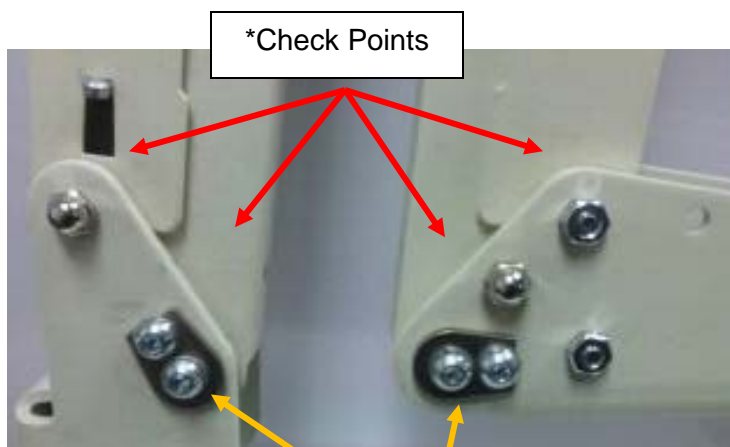
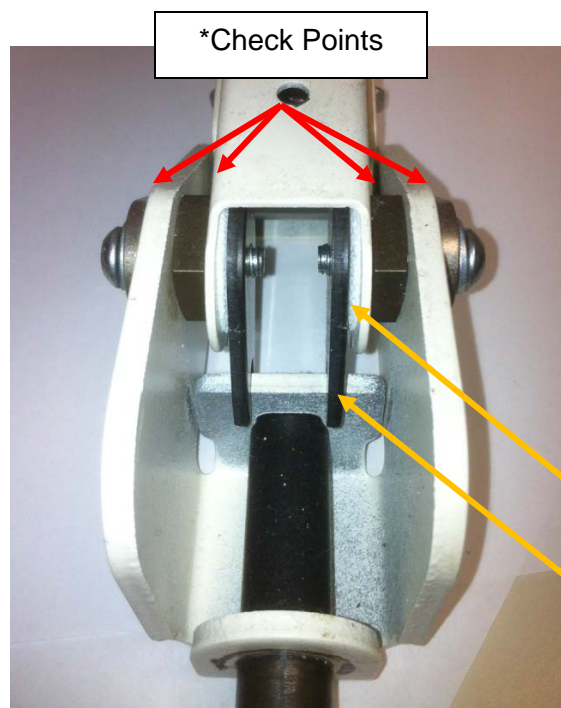
INSPECTION AND LUBRICATION POINTS

These points are similar between all arm models.

The brake plates and brake friction discs must be in compression for these joints to be secure. Tighten the brake friction adjusting screws until the brake plates and friction discs are no longer loose.

The brake lock washers should be in slight compression for these joints to be secure. If these brake joints are loose, the arm is susceptible to joint failure from bearing displacement.

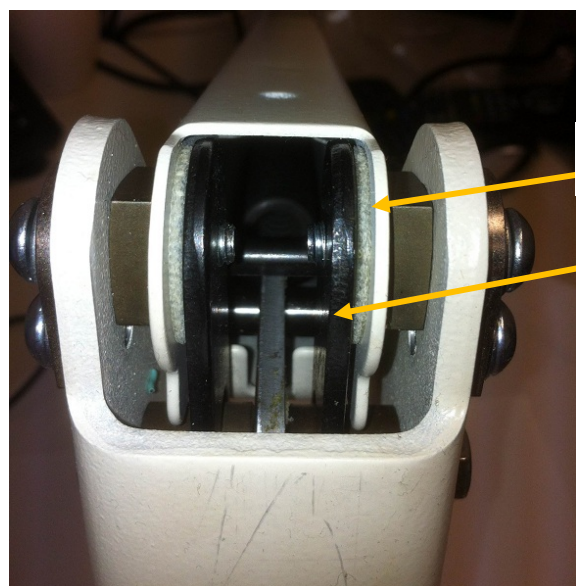
*Check arm sections and the arm base for signs of bending, damage, or missing hardware in areas shown below.



Brake Friction Discs

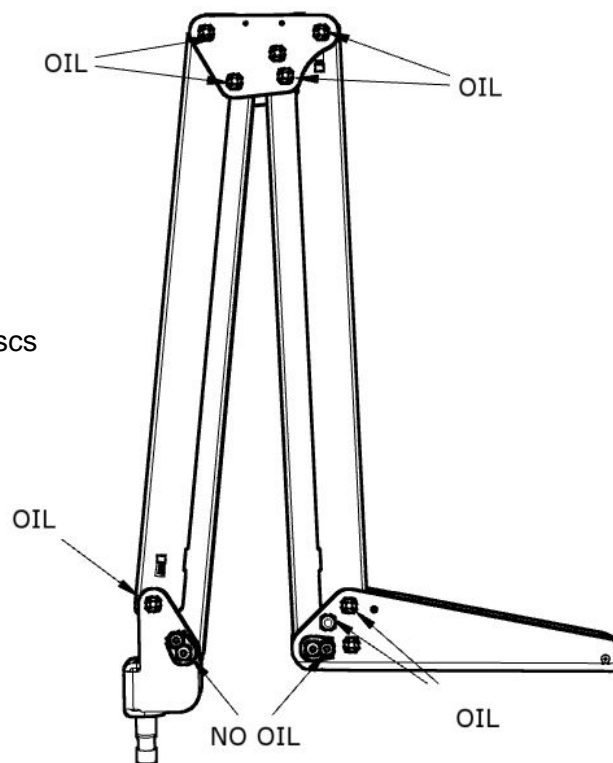
Brake Plates

Brake Lock Washers



Brake Friction Discs

Brake Plates

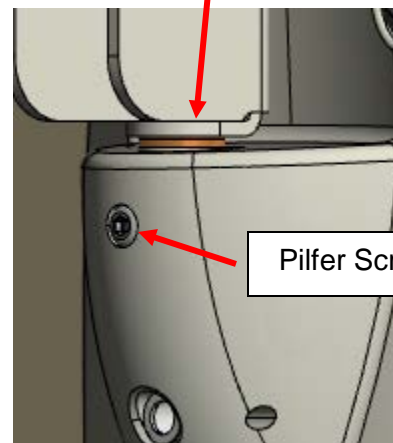


INSPECTION OF ARM MOUNT

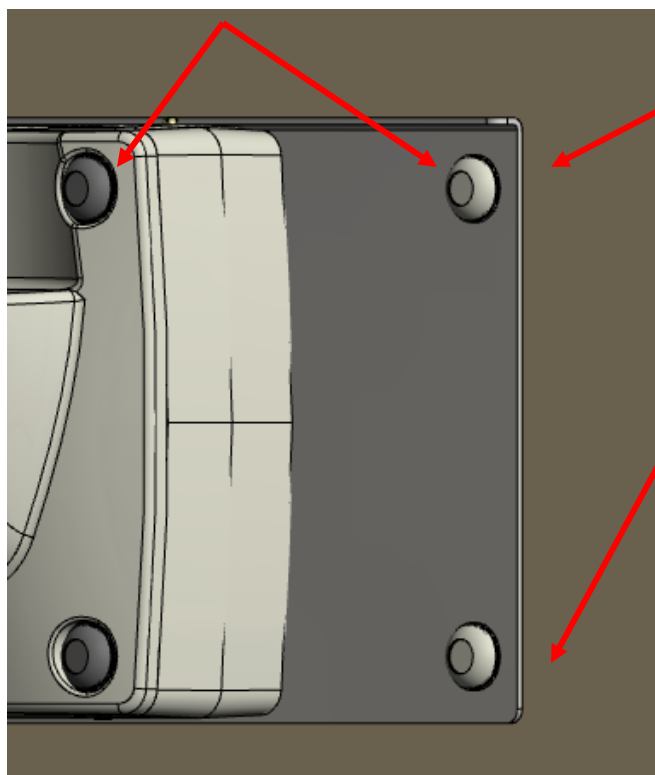
*Check areas shown for damage and wear

- Loose mounting bolts. Retighten with appropriate tools.
- Cracks or any defects in wall around bracket close to where bolts are located. If present, remove system from service and contact a qualified person for further inspection and repair of the system.
- Cracked bracket bushing. Visually inspect and identify for immediate replacement.
- Pilfer screw present.
- Arm bushing held in place by Pilfer. To test, install safety/brake pin into the arm and lift up on arm. If arm lifts out of bracket, verify that the pilfer screw is tight. If the screw is tight, remove the system from service and contact a qualified person for further inspection and repair of the system.

*Check Point for Bracket Bushing

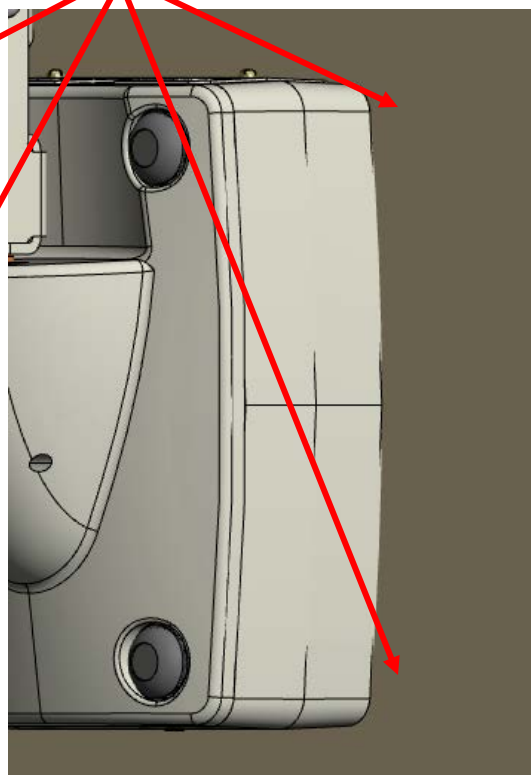


*Check Points for Loose Bolts



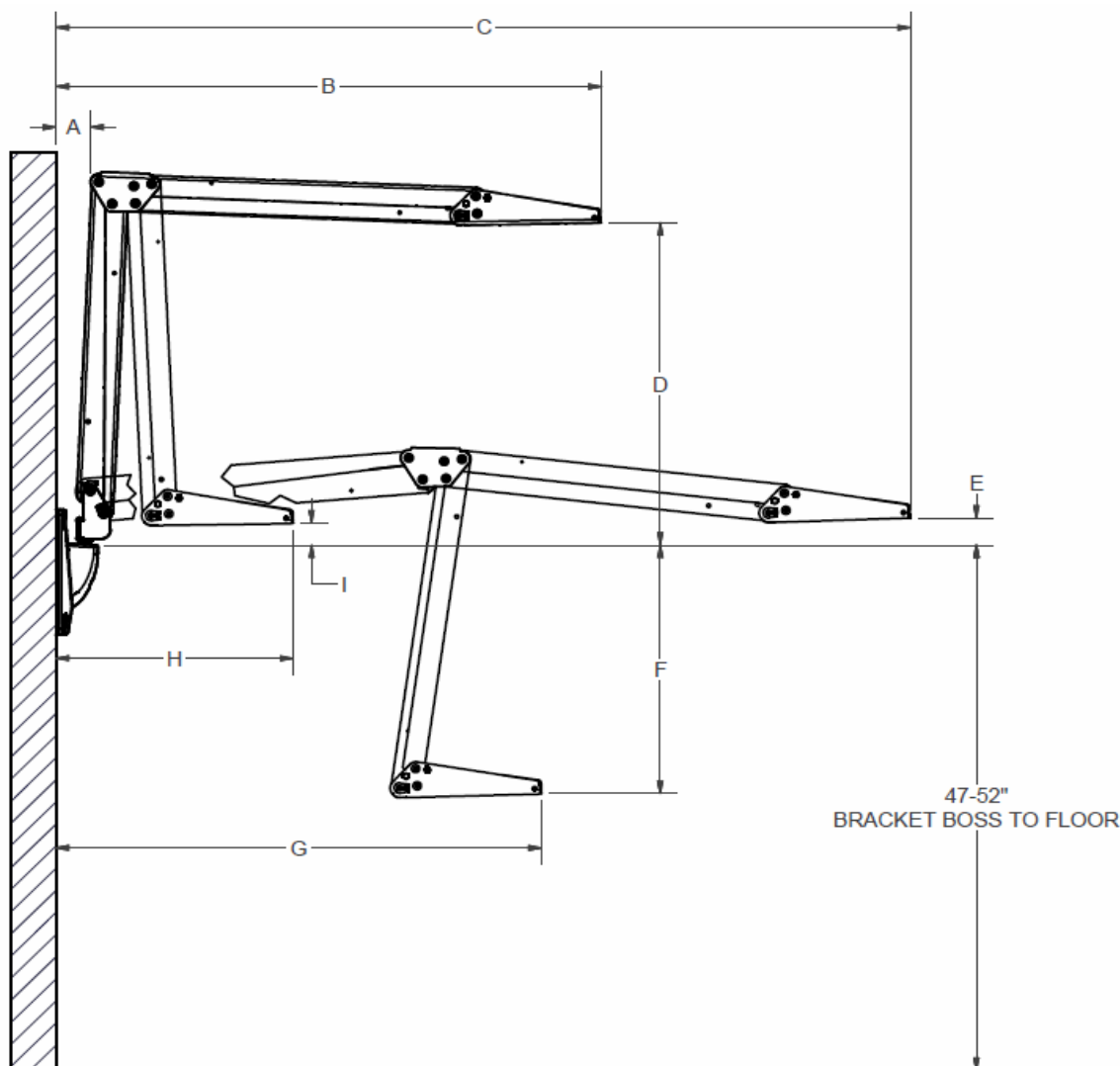
Bracket with Backer Plate

*Check Points for Wall Defects



Without Backer Plate

OPERATING ENVELOPE



PDi Series Arms support up to 22 lbs.

- Max load capacity at base pin:
 - 500 Series/Max load capacity = 19#, creates 150 FT-LB torque on base pin.
 - 400 Series/Max load capacity = 22#, creates 170 FT-LB torque on base pin.
 - 1000 Series/Max load capacity = 21#, creates 160 FT-LB torque at base pin.

- Arm Weight:

- 500 Series/14#
- 400 Series/20.5#
- 1000 Series/16.5#

- P10LCD weight = 7#
- P14W weight = 7#
- P15X = 12#
- *P15X (Touch screen and computer) = 15#
- *P15X (DVD) = 16#
- P19W weight = 17.5#

Dims.	400 Series	500 Series	405-EXT	1000 series
A	5"	4"	9.5"	5"
B	44"	39"	48.5"	47.20"
C	66"	56"	70.5"	71.56"
D	27"	21"	27"	30.94"
E	1"	1"	1"	0"
F	29"	20"	29"	20.50"
G	40"	36"	44.5"	47.08"
H	17"	17"	21.5"	22.69"
I	1"	1"	1"	0"

***Call PDi for part number and cabling Matrix**