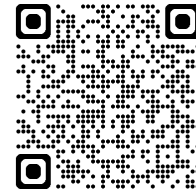


- Call before you start 914-592-6100 -

**Panoura 18S Parts Replacement
Potentiometer Assembly with Bracket and gear.**



Link for Video Directions

<https://imageworkscorporation.com/installation-and-service-resources-panoura-18s/>



!!! IMPORTANT !!!
ROTATE HEAD BEFORE
SERVICING

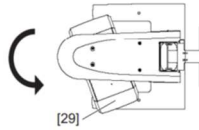
Step. Description

- 1 Lower the Pano height to easily work on top of C-ARM.
- 2 Turn Panoura Power OFF
- 3 Remove Cover over CPU (flat plate on X-ray side 3 Philips screws) and remove Cover over Rotation motor (Curved plastic on Sensor side 1 Philip screw, cover tilts off).
- 4 Unplug J5 on CPU BD (CPU bd approx. 10"x10" many connectors, J5 is a 9 position connector with 3 populated wires on the far side of the board toward the right).
- 5 Pull the J5 cable over to the rotation motor side.
- 6 Unscrew and remove the 2 Philips screws securing the potentiometer and small gear assembly bracket. Note these are located underneath. May need to use short Philips.

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Step. Description

- 7 Remove the assembly by moving assembly toward the center of main rotation then lift out over the belt.

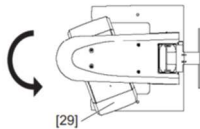


- 8 Rotate the HEAD

- 9 Check and if necessary, set the Potentiometer resistance between J5-2 (W) and J5-3 (BK) wires to 1800 Ohms +/- 10 Ohms. This is 1.8 k Ω . Rotating the small gear sets this.

- 10 Install the new Rotation Pot Gear with Bracket Assembly. Ensure that the large and small gears line up vertically and the teeth engage. Screw in place (2 Philips)

- 11 With the POT in place and the (VERY IMPORTANT) the head still rotated



Recheck the 1800 Ω J5-2(W) to J5-3(BK) and plug into the 9 pin J5 connector on the CPU Bd.

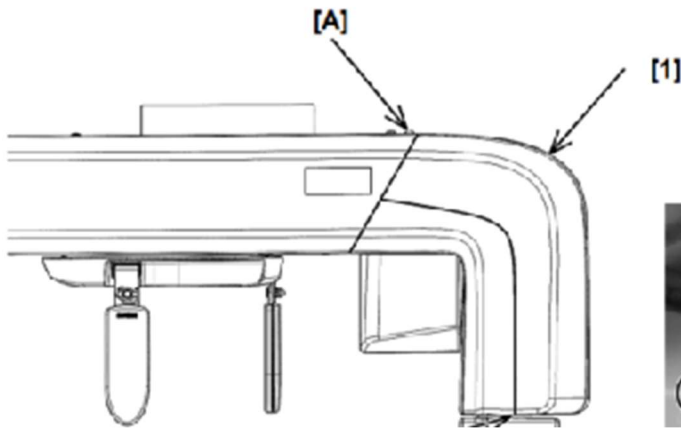
- 12 Turn on Panoura Power.
- 13 On PC in Control Manager click [shift] Setup to access CS Mode. PW=p18p18
- 14 Select and run CS86 must get 2400 and 2400 +/-10 otherwise check Opto gates.
- 15 Select and run CS97 must complete successfully.
- 16 Run test X-Ray with phantom if available.

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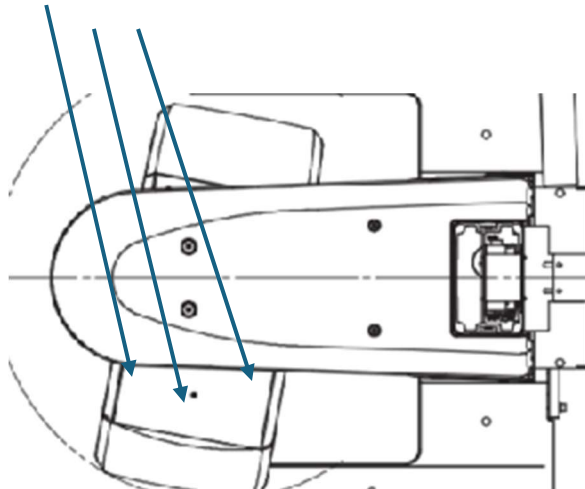
Tools Required.

- Philips Screw Driver #2
- Philips Screw Driver 'stubby'.
- Metrix Allen Wrench set.
- Digital Multimeter (must measure ohms/resistance)

Remove 1 Philips screw at location [A] and rotate and remove cover [1]

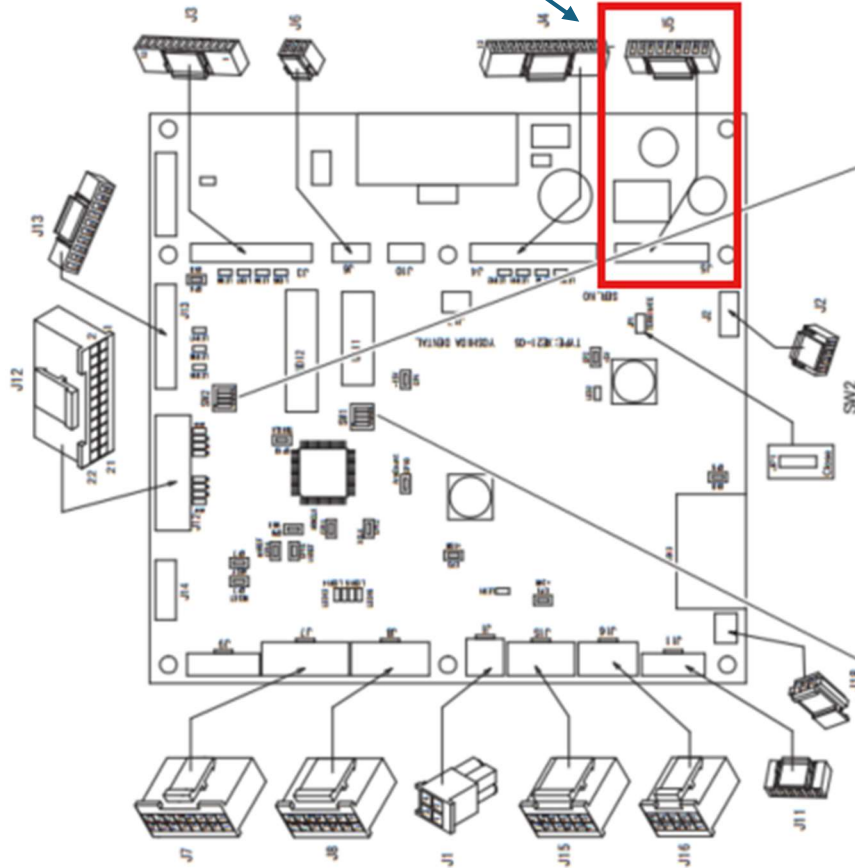


Remove cover over CPU Bd 3 Philips Screws. And remove plate cover to access CPU Bd.

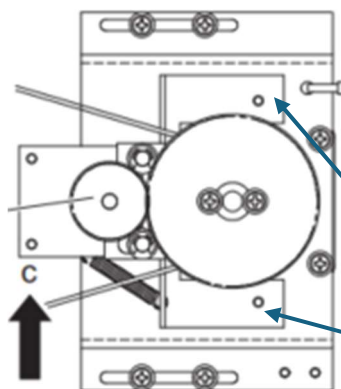


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Unplug J5 on CPU Bd.

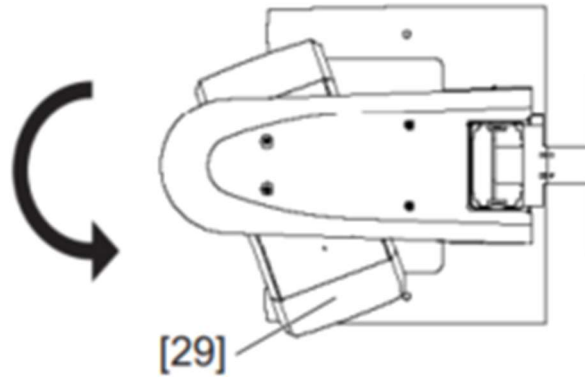


Remove pot bracket Assembly.

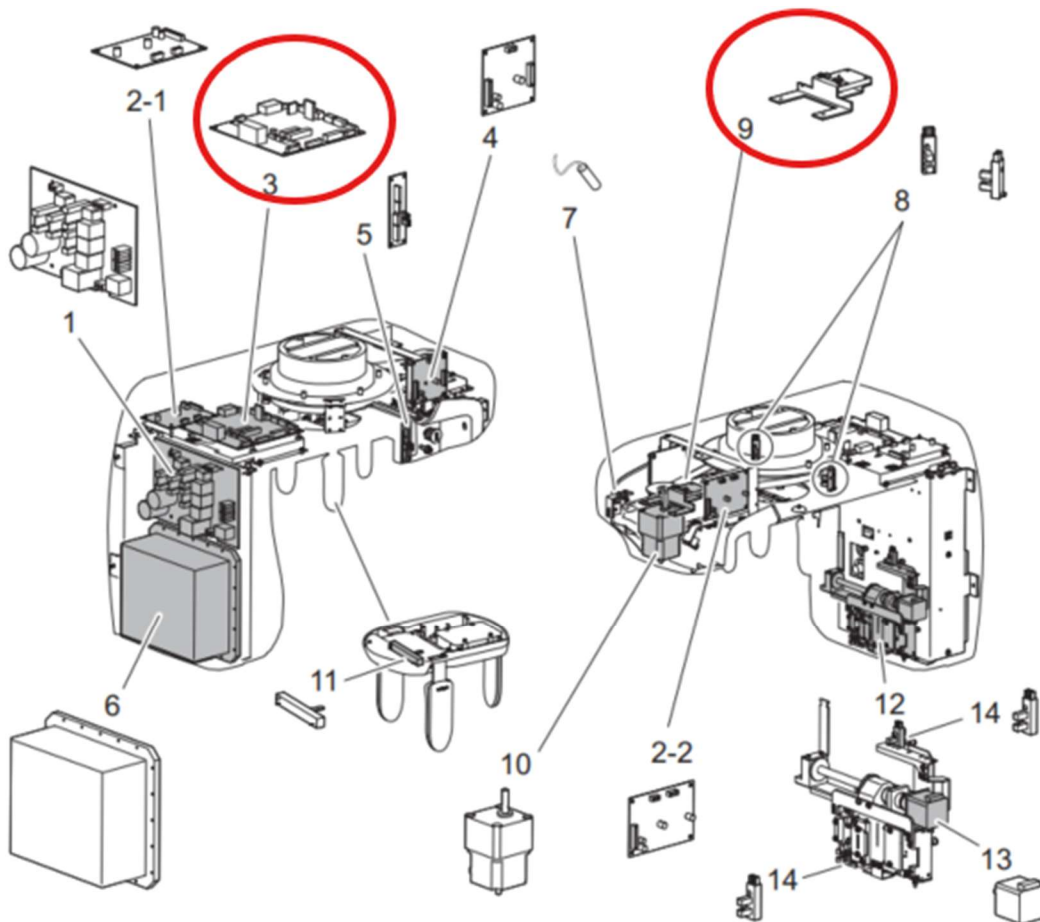


2-philips screws from underneath.

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Rotate the Head



Location of Assemblies (3. CPU Board

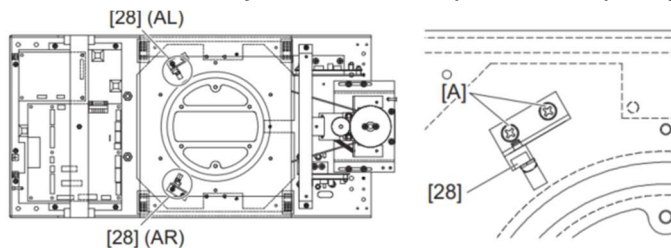
9. Rotation Pot/Gear/Brkt Assy)

- Call before you start 914-592-6100 -

Panoura 18S Parts Replacement Photo Interrupter (AL,AR) Replacement

Step. Description

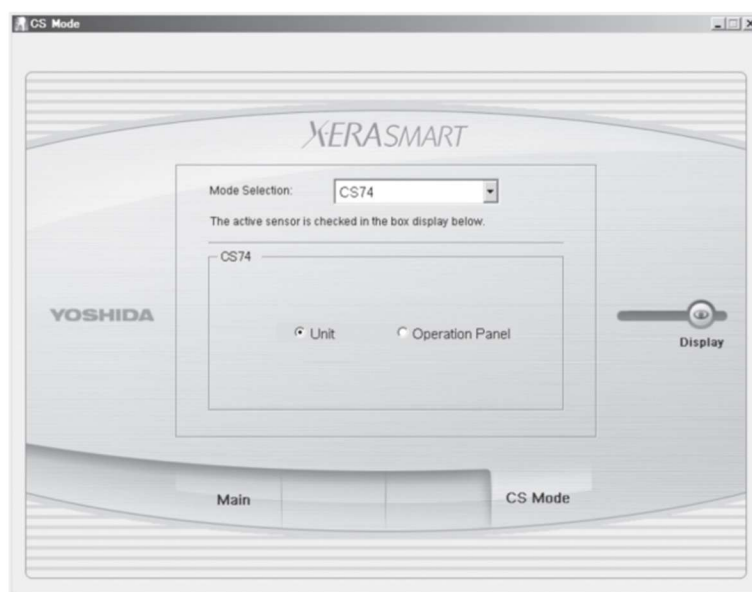
- 1 Raise height to max. and then Turn power OFF.
- 2 Remove the head support (4 Philips screws and 1 connector).
- 3 Remove lower cover panel (5 Philips screws under white plastic caps.)
- 4 Locate and visually check the 2 Opto-Interrupter gates.



- 5 Manually turn the head and check that the interrupter plate goes into the gates correctly.
- 6 If still not working try physically adjusting gates mounting positions.
IMPORTANT REPLACE OPTO GATES ONE AT A TIME!
- 7 If still not working replace Opto gates ONE AT A TIME. RUN CS86 after EACH GATE is REPLACED.

NOTE: CS74 will display the status of the gates AL & AR.

0=OPEN 1=BLOCKED



Display of Ports on Unit		
Item	Port	Status of Port
Availability	-	0
Availability	-	0
Collimator Position Sensor	PE21	1
Collimator Origin Sensor	PE20	1
Head kVOK	PE19	0
Head mAOK	PE18	1
Head TEMPFALL-1	PE17	0
Head TUBEFAIL	PE16	1
Dip Switch 2-3	PD2	0
Dip Switch 2-2	PD1	0
Dip Switch 2-1	PD0	1
Availability	PB5	1
Availability	PB4	0
Availability	PB3	0
Availability	PB2	0
Vacuum Tube Discrimination	PA11	1
Availability	-	0
Availability	-	0
Availability	-	0
Availability	-	0
Availability	PF15	1
Availability	PF14	1
Sensor XF	PF13	0
Sensor XFC	PF12	0
Sensor XBC	PF11	1
Sensor AR	PF10	0
Sensor ARF	PF9	0
Sensor AB	PF8	0
Availability	PF7	0
Availability	PF6	1
Sensor XB	PF3	0
Sensor AL	PF2	0