

Cpi X-Ray Generator Service Manual



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Cpi X-Ray Generator Service Manual

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The housing number is usually not shown on the identificationFurthermore, a specific stator type may require different starterFor ease of use, the Toshiba tubes are sorted by. Tube Insert Type "E" number within this table. The installer must confirm the stator type for theContact the factory if the desired TubeIndico 100Note The starter boost voltage is 120 VAC XSAL stator only. This isToshiba RotanodeXSRA statorToshiba RotanodeIndico 100Indico 100Indico 100Indico 100Use and disclosure is subject to the restrictions on the title page of this CPI document. Page 6. Rev. T. XRay Generator Service Manual SupplementLOW SPEED STARTER TUBE SELECT TABLE contToshiba RotanodeIndico 100Indico 100Indico 100Indico 100Indico 100Note The starter boost voltage is 120 VAC. This is only available withToshiba RotanodeToshiba RotanodeToshiba RotanodeNote The starter boost voltage is 120 VAC. This is only available withIndico 100XRay Generator Service Manual SupplementPage 7. XRay Tube Stator Compatibility TablesLOW SPEED STARTER TUBE SELECT TABLE contDynamax DX 62. Dynamax DX 62UVarianVarian Diamond. Std "R" stator. Varian Emerald. Std "R" stator. Varian Sapphire. Std "R" statorIndico 100Indico 100Indico 100Indico 100Indico 100Indico 100NOTE 2 Toshiba tube inserts with the suffix "X", "FX", "GX", and "JX" are interchangeable. NOTE 3 These Xray tubes incorporate a control grid. Grid control is currently not supported by CPI generators. Connect the grid connection to Ground when using these tubes, and select the insert type within the. Generator software corresponding to the equivalent nongrid tube. Use and disclosure is subject to the restrictions on the title page of this CPI document. Page 8. Rev. T. XRay Generator Service Manual SupplementUnless indicated otherwise within Table

2, setting the switches to the code indicated for the applicable Tube Type selects all required operating parameters. http://fixmyhelicopter.com/project-new/christianbook/upload_images/flat-palio-manual.xml

The Dual Speed Starter part number corresponds to the AC line voltage and the configuration of phaseshift capacitors installed. Reference notes are provided at the end of Table 2. Tube operating parameters for each switch code are contained in Table 3 for reference. These Dual Speed Starters must be jumperconfigured toPlease see note 9 before attempting to use this Dual. Speed Starter configuration. For Dual Speed operation, contact factory. These Dual Speed Starters must be jumperconfigured toPlease see note 9 before attempting to use this Dual. Speed Starter configuration. For Dual Speed operation, contact factory. Use and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 9. CPI Canada Inc. Dual Speed Starter Tube Select Table contRotax KA 125CometUse and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 10. CPI Canada Inc. Dual Speed Starter Tube Select Table contCometUse and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 11. CPI Canada Inc. Dual Speed Starter Tube Select Table contDunlee Philips. DA10 seriesDunlee PhilipsSee Philips ROT 350, 351Use and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 12. CPI Canada Inc. Dual Speed Starter Tube Select Table contPX1400 seriesDunlee. PX1400 seriesGE Maxiray 75GE Maxiray 100Some tube inserts may be suitable for Low SpeedXRay Generator Service Manual SupplementPage 13. CPI Canada Inc. Dual Speed Starter Tube Select Table contRotagilRotagilUse and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 14. CPI Canada Inc. Dual Speed Starter Tube Select Table contSwitchesXRay Generator Service Manual SupplementPage 15. CPI Canada Inc.

Dual Speed Starter Tube Select Table contPhilipsSwitchesXRay Generator Service Manual SupplementPage 16. CPI Canada Inc. Dual Speed Starter Tube Select Table contMedicalBiangulixSiemens Opti150. Siemens OptiTop 150XRay Generator Service Manual SupplementPage 17. CPI Canada Inc. Dual Speed Starter Tube Select Table contSiemens SV 125. Siemens MegalixSiemens. SiemensXRay Generator Service Manual SupplementPage 18. CPI Canada Inc. Dual Speed Starter Tube Select Table contToshiba xray tubes are identified by their "E" number, which is used to represent both the Tube Insert and the complete assembly. The housing number isA specific "E" number may be available with several different stator types, each having different starter requirements. Furthermore, a specific stator type may require different starter requirements depending on the housing used. For ease of use, the Toshiba tubes are sorted by. Tube Type "E" number within this table. The installer must confirm the stator type for the planned tubes. If the stator type is not identified within the ToshibaToshibaStandard "R" stators that require 6 F high speed shiftToshibaToshibaToshibaXSRA statorPlease refer to note 9 before attempting to use this. Dual Speed Starter configuration. Use and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 19. CPI Canada Inc. Dual Speed Starter Tube Select Table contToshibaToshibaToshiba. SwitchesToshibaUse and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 20. CPI Canada Inc. Dual Speed Starter Tube Select Table contToshibaStd "R" statorDynamax 62UToshibaToshibaUse and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 21. CPI Canada Inc. Dual Speed Starter Tube Select Table contUse and disclosure is subject to the restrictions on the title page of this CPI document.

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XRay Generator Service Manual SupplementPage 22. CPI Canada Inc.Dual Speed Starter Tube Select Table contVarianVarianSwitchesXRay Generator Service Manual SupplementPage 23. CPI Canada Inc.Dual Speed Starter Tube Select Table contDiamond. Emerald. Std "R" statorDiamond. Emerald. Std "R" stator. Varian. Sapphire. Std "R" statorUse and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 24. CPI Canada Inc.Dual Speed Starter Tube Select Table contFor 2tube systems using different tube types, both tube types must be considered.Refer to theFor some tubes listed as high speed only, the starterIn other cases, the limitation is due toCapacitor selection is made automatically by relays locatedCapacitor selection is made automatically by relays located on the Dual Speed Starter.Capacitor selection is made automatically by relaysThese starters are intended for used in place of Dual Speed Starter "13" in twotube systems that include both a. Use and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 25. CPI Canada Inc. XRay Tube Stator Compatibility TablesCapacitor selection is made automatically by relays located on the Dual Speed Starter. These startersDo not use these starters with. Siemens tubes due to highspped shift capacitor voltage limitations.Philips SRO Housing with the windings connected in parallel low impedance configuration.Select the corresponding Philips insert typeGrid control is currently not supported by CPI generators. Connect the grid connection to Ground whenFor twotube operation, this configuration will support a theseThe Dual Speed Starter "12" is preferred. Use and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 26. CPI Canada Inc.The Dual Speed Starter "12" is preferred.Reference notes are provided at the end of Table 3.

<https://gingersgarden.com/images/brightstar-remote-br100p-manual.pdf>

XRay Generator Service Manual SupplementPage 27. CPI Canada Inc.ReservedRefer to Table 2 for DSS Part Numbers applicable to each Tube Type Housing and Insert. Use and disclosure is subject to the restrictions on the title page of this CPI document. XRay Generator Service Manual SupplementPage 28. Discover everything Scribd has to offer, including books and audiobooks from major publishers. Report this Document Download Now Save Save 901471 Cmp200dr Service Manual For Later 100% 1 100% found this document useful 1 vote 549 views 337 pages 901471 Cmp200dr Service Manual Uploaded by Swami Meera Description CMP200 DR SM Full description Save Save 901471 Cmp200dr Service Manual For Later 100% 100% found this document useful, Mark this document as useful 0% 0% found this document not useful, Mark this document as not useful Embed Share Print Download Now Jump to Page You are on page 1 of 337 Search inside document Browse Books Site Directory Site Language English Change Language English Change Language. Poor connections between the LCD module and the console CPU board can also produce lines across the display. Ensure connections are secure and if so, replace the LCD module which includes the backlight. While holding this button, turn the console on. Now, release all buttons. On the right side of the display select clock, then select the function that you want to change by rotating the knob in the direction that gives you what you wanted to change then press Exit soft key to exit the program. Where should I start troubleshooting If this LED is dimly lit or not lit at all, there is a problem with the 15vdc supply either on the PDRB VR2 or PS1 or a component on the Main Control Board is loading down the supply. With the console turned off and the main disconnect breaker off, you can disconnect the two ribbon cables J4 and J5 from the Main Control board and then turn power back on the breaker and then the console.

<https://www.arquetopia.org/images/brightstar-remotes-br100p-d-manual.pdf>

If LED4 lights, either Main Control board or PDRB is the problem If LED4 fails to light, replace the

PDRB. Is a longer console cable available The actual filament reference voltage cannot exceed the limit set in the calibration. See service manual for details. Incorrect main and phase currents will cause the absence of the Rotor OK signal. The wire colors for main, phase and common can vary. It is best to measure the main to common and phase to common resistance to determine connections. The main resistance is about half the phase resistance with a typical R stator. Q stators would be similar ratio, but measuring lower resistance values. Refer to the Generators manuals section for kV Fault troubleshooting guides. What shall I do See the service manual for details. Generators produced earlier than that time need to be checked to confirm the 3 pole contactor in the power module. Please consult tech support if a 3 pole contactor upgrade kit is needed or a line matching transformer part number to step the voltage up or down. Nominal 240280 is required depending on the generator. Be sure to match the KW rating of the generator to the specific chart from the document. Poor connections between the LCD module and the console CPU board can also produce lines across the display. Ensure connections are secure and if so, replace the LCD module which includes the backlight. What's the default password While holding this button, turn the console on. Now, release all buttons. On the right side of the display select clock, then select the function that you want to change by rotating the knob in the direction that gives you what you wanted to change then press Exit soft key to exit the program. It is also a wise idea to back up all of the APR and generator data when installation is complete. Click on CPI Indico or CMP200 Power Requirements. This error is displayed when the tube conducts as a result of filament current in standby.

The mA produced under this condition is so small that it triggers the Low mA trip point and displays the error. Simply lower the standby filament current by 2 clicks, and retry the auto cal. High currents occur when arcing in the secondary of the high voltage chain. A tube seasoning procedure in the Maintenance section of the service manual may need to be performed to heat soak the tube housing and eliminate this arcing, in some cases. Swap the cable with a standard network cable as a test. This problem is known to occur during new installations especially if the comm. Swap the cable with a standard network cable as a test. This problem is known to occur during new installations especially if the comm. Swap the cable with a standard network cable as a test. This problem is known to occur during new installations especially if the comm. You cannot do this with mAs. The last entered mas value will be the mAs value for all three patient sizes small, medium, large. If this is unacceptable, you have to configure the console for CM thickness. Here the user will have control over kV, mas, and time for a selected anatomy and CM thickness. Here the user will have control over kV, mAs and time for a selected anatomy and CM thickness. If your laptop does not have a serial port, you will need to purchase a USB to serial adapter with the driver. The console is convection coded, and the main cabinet is fan cooled. The console and the main cabinet should never be covered when the generator is switched on as any covering may interfere with the cooling. The console is convection coded, and the main cabinet is fan cooled. The console and the main cabinet should never be covered when the generator is switched on as any covering may interfere with the cooling. My console displays APR not available. Once the console is rebooted, select YES to both questions. This procedure is a simple one and can be found in chapter 3, programming the generator.

To prevent this from happening again, ensure proper grounds are run. This information can also be found in the service manual under proper grounding. Once this is complete all IO settings, calibration data, and AEC calibration data will be lost. With the console OFF, locate DIP18 on the generator CPU board. Switch DIP18 to OFF and turn the console ON. During this time the console may display DEFAULTS. After a few seconds turn the console back off and restore DIP18 to its normal ON position. To prevent this from happening again, ensure proper grounds are run. This information can be found in the service manual under proper grounding. Ignoring BATTERY LOW errors will also cause a loss of or corrupted data errors. Refer to the error log for recorded battery

low errors. How do I correct this Poor connections between the LCD module and the console CPU board can also produce lines across the display. Ensure connections are secure and if so, replace the LCD module which includes the backlight. How do I change the batteries These batteries should be replaced every 5 years as part of the PM schedule or if the battery voltage drops below 2.8V. If these errors are ignored, corrupted data errors will occur. Replacement CR2032 batteries can be purchased locally. Make sure the generator is left ON when replacing. Important data will sure to be lost if the battery is removed while the generator is OFF. However, there are some instances where it will need to be used. For example, if the tube that is being installed is not in the consoles tube library, GenWare will need to be used to load the tube data into the console. Another instance is backing up the generators data. This would include generator cal data, edited APR's, IO settings and AEC cal data. The cable will connect via the serial port on the computer and the 9pin port at the back of the console. How do I connect GenWare to the console However, some adaptors are not compatible with the GenWare protocol.

The part number for the adapter is 6535006P1. If the tube you have is an old tube, you will need to select a tube which has identical loading curves. If this is not possible, your tube is not compatible with the generator therefore you will need to acquire another tube. Refer to Generator manuals section for kV Fault Troubleshooting guide. Be sure to match the KW rating of the generator to the specific chart from the document. Typically this is a switch problem. An end user may get this E if the technique selection is above or below operating parameter of the tube. This jumper tells the rotor control pcb what tube is being used so the proper rotor current can be sampled during the prep process. Check J8 on the rotor control for proper tube selection. This 24 volts goes directly into the main control pcb at H4 12. There is an LED on the rotor pcb that must come on at the end of prep in order for this 24 Volt signal to be released. If this LED does not come on, the problem is between the rotor control and the stator of the tube. Check the tube stator resistance through the rotor cable and all connections on the rotor pcb and the main pcb. If these checkout ok, it's probably a failure on the rotor pcb. This is primarily due to a mA overload condition usually caused by arcing in the secondary Hv xfmr, Tube or hv cables or gross miscalibration of the filament. Verify that the mA overload trip relays are actually activating and if so, search for evidence of arcing. How do I connect the rotor Dont get hung up on wire colors! There is also a special bracket to attach both cabinets together. This prevents users and non qualified people access into the service utility. Switch 3024 SW23 shall be closed or in position ON for access into the service utility. Although the manual states OPEN LOOP must be performed, you should be fine with calibrating CLOSED LOOP only. Always check the mA output waveform after the auto cal is complete.

In this screen increase the mA value beyond the maximum mA selection, the mA value will then change to the first memory location E01. They will increment sequentially as the mA increased. You can check LED1 or D9 on the respected board to determine a ready signal. This can be caused by the mA calibrated too high or if the high tension tank is breaking down. The latter can be determined by performing a no load test. If mA is produced during this test, replace the high tension tank. A single stage footswitch is depressed once to start this action which will automatically turn on the collimator lamp for the same time interval. During this interval, the footswitch can be depressed a second time to make an exposure. If the meter responds to DC, remove the jumper clip between TS45 and 6 and connect your meter accordingly. Don't forget to put back when done. It is usually an open connection between the mA switch and the H11 connector. Check terminations inside the H11 connector on the Main Board, Contact Tech Support if problem persists. Introduction 1A CHA Page 8 and 9 CPI Canada Inc. Introduction 1A 1A. Page 10 and 11 CPI Canada Inc. Introduction 1A 1A. Page 12 and 13 CPI Canada Inc. Introduction 1A 1A. Page 14 and 15 CPI Canada Inc. Introduction 1A Gui Page 16 and 17 CPI Canada Inc. Introduction 1A 1A. Page 18 and 19 CPI Canada Inc. Safety 1B CHAPTER 1 Page 20 and 21 CPI Canada Inc. Safety 1B SAFETY NO Page 22 and 23 CPI Canada Inc. Safety 1B 1B.4.1 Sa Page 24 and 25 CPI Canada Inc. Safety 1B 1B.5.4 Co Page 26 and 27 CPI Canada Inc.

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