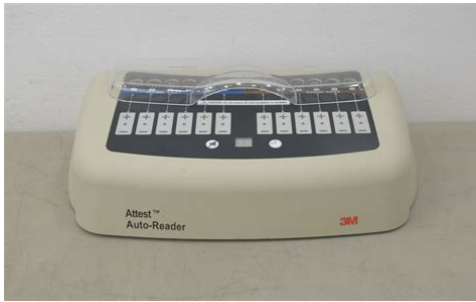


## 3m attest 290 service manual

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To avoid the risk of injury from flying debris due to a ruptured RRBI, which if not avoided could result in serious injury or death Allow the RRBI to cool for the recommended time period before crushing. Crushing or excessive handling of the biological indicator before cooling may cause the glass ampule to burst. Wear safety glasses and gloves when removing the RRBI from the sterilizer. Wear safety glasses when crushing the RRBI. Handle the RRBI by the cap when crushing and tapping. Do not use your fingers to crush the glass ampule. Do not roll the RRBI between your fingers to wet the spore strip. CAUTION To avoid a potentially hazardous situation, which if not avoided may result in minor or moderate injury Avoid contact with the hot surface of the metal incubator block. To avoid possible environmental contamination, dispose of the Attest 290 Autoreader according to applicable governmental regulations. To avoid RRBI vial from absorbing fluorescent residue from a chemical indicator or tape, place the RRBI vial so it does not come in direct contact with chemical indicators or tape. Note This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to

cause harmful interference in which case the user will be required to correct the interference at their own expense. This Class A digital apparatus meets all requirements of the Canadian InterferenceCausing Equipment Regulations. <http://cslcedu.com/userfiles/combat-cuha-160-manual.xml>

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. The Attest 290 Autoreader complies with the Australian EMC requirements as confirmed in the Supplier's Declaration of Conformity that is linked to the CE mark. 3M Page 3 of 9 Attest 290 Autoreader 6 INSTRUCTIONS FOR USE Operating Instructions Startup Place unit on a firm level surface. Plug unit into an appropriate AC grounded outlet. Readout Procedure Follow this procedure for every RRBI to be read Allow a 30 minute warmup period before placing RRBI into the incubation wells. The C1 caution code will disappear when proper incubation temperature is reached. It is recommended that the unit be left on to eliminate warmup periods. The unit may be turned off when it is anticipated that it will not be used for an extended period. Step 1. While wearing gloves and safety glasses, CLOSE RRBI cap by pressing down. Step 2. CRUSH the glass ampule containing growth media in the designated crushing well built into the incubator. Step 3. Hold the RRBI by the cap and TAP bottom of the vial on a tabletop until media wets spore strip at bottom of vial. Do not tap vial on unit. Do not remove or change placement of RRBI once it is placed into a well. Doing so may result in loss of results and the RRBI test may be invalid. 3M Page 4 of 9 Attest 290 Autoreader 7 INSTRUCTIONS FOR USE Wells are color coded to match the cap of each type of biological indicator; i.e. the 1291 RRBI with a blue cap goes into a blue well and the 1292 RRBI with a brown cap goes into a brown well. A yellow light will come on to indicate the RRBI is incubating in the reader well and should not be touched. A yellow light indicates the results are not available and incubation is in progress. C2 Caution code will also be displayed. You must return the RRBI to the reader well within 10 seconds or the results will be lost.

WARNING Do not remove or change placement of RRBI once it is placed into a well. Doing so may result in loss of results and the RRBI test may be invalid. All red, yellow and green lights will flash for one second when the cover is opened demonstrating they are functional. The cover should only be opened when placing additional RRBI into incubation wells or when removing RRBI at the completion of the designated incubation period. The full incubation period is required before a negative result is shown. The Attest 1291 RRBI requires 1 hour of incubation and the Attest 1292 RRBI requires 3 hours of incubation before a negative result will be shown. The negative result will be shown automatically after completion of the required incubation time. The processed indicator and the positive control may also be further incubated for a visual pH color change. The final negative reading media remains purple for a visual color change is made at 24 hours 1291 or 48 hours 1292. The positive control should show a yellow color change of the growth media. For any incubation beyond 24 hours 1291 or 48 hours 1292, RRBI should be moved to a humidified environment. Each facility must establish final readout time in its policy and procedures. The policy should be based on manufacturer's instructions for use, scientific knowledge, current recommendation practices, applicable compliance requirements, inventory levels, and the risk to the patient if the medical device is not sterile. 3M Page 5 of 9 Attest 290 Autoreader 8 INSTRUCTIONS FOR USE Positive Control Crush, tap and incubate at least one nonprocessed Attest 1291 or 1292 RRBI to use as the positive control each day that a processed RRBI is incubated and read by the unit. Write a C for control and the date on the label. The positive control can be placed in any incubator well of the unit. The positive control should be the same part number, from the same manufacturing date and lot number as the processed RRBI in the unit.

<http://www.drupalitalia.org/node/67521>

It is good practice to use a positive control each day a sterilized RRBI is processed. This helps ensure correct incubation temperatures are met. Viability of spores has not been altered due to

improper storage temperature, humidity, or proximity to chemicals capability of media to promote rapid growth, and proper functioning of Attest 290 Autoreader components. At the end of the specified incubation time, if a negative RRBI result is detected, the green light will illuminate indicating an acceptable sterilization process. After either the green or red light comes on, the RRBI can be removed from the well. The RRBI should not be removed or touched when the yellow light is on. The final negative processed RRBI reading for a fluorescence change green light after 1 hour 1291 or 3 hours 1292 indicates an acceptable sterilization process. If the processed RRBI is further incubated for a visual pH color change, when special studies are desired, the media color change from purple to yellow will also indicate a sterilization failure. The positive control should show a yellow color change at 24 hours 1291 or 48 hours 1292. A final negative color change result no color change, media remains purple, is made at 24 hours 1291 or 48 hours 1292. Act on any positive result immediately. The positive result indicates a sterilization process failure may have occurred. Determine the cause of the positive RRBI following current facility policies and procedures. Always retest the sterilizer and do not use the sterilizer for processing loads until 3 consecutive RRBI results are negative. Disposal Dispose of the used Attest RRBI according to your healthcare facility policy. This provides results in the least amount of time without the need to manually take frequent readings. An alarm will also sound if a RRBI is removed from the Attest 290 Autoreader well before a final result has been detected. This will turn off the alarm for that RRBI only.

<http://ferienwohnung-dorsten.com/images/canon-l-360-user-manual.pdf>

Any positive RRBI results detected in other wells will result in the alarm sounding. Removing the RRBI will reactivate the alarm for that well. Pressing the alarm off button will not silence the alarm for error or caution code alarm warnings. A yellow period will appear on the lower right corner of the display panel to indicate the alarm is disabled. The alarm will be disabled for all positive RRBIs, error codes, and caution code alarm warnings. The yellow period on the display panel will turn off, indicating that the alarm is again active. The time remaining appears in hours until there is less than an hour remaining when it displays minutes remaining. Temperature Monitoring The Attest 290 Autoreader contains an internal temperature selfdiagnostic program. Power Cord Retaining Clip Place the power cord through the power cordretaining clip on the rear of the Attest 290 Autoreader near the plug in. This will help to ensure that the power connection does not become inadvertently disconnected. Care and Cleaning WARNING Always unplug the Attest 290 Autoreader and allow to cool before cleaning. Do not immerse the unit in liquid. Clean the exterior surface of the Attest 290 Autoreader, with the dust cover closed, by wiping it with a damp cloth moistened with a mild detergent. Do not open the dust cover and attempt to clean interior components. If additional cleaning of the wells is required, call for repair or replacement. Note The Attest 290 Autoreader does not contain any user serviceable parts or require any routine maintenance. Any malfunctions will be indicated by an error code. Refer to the Trouble Shooting Guide section for error code explanations. 3M Page 7 of 9 Attest 290 Autoreader 10 TROUBLESHOOTING GUIDE Trouble Shooting Guide In the event of an error code, unplug the Attest 290 Autoreader and plug it back in to initiate the selfdiagnostic test. If error code reoccurs, call for repair or replacement.

<https://findatree.com/images/canon-l100-laser-fax-machine-manual.pdf>

The display panel will indicate malfunctions detected by a specific error code. C2 RRBI has been removed before incubation Replace RRBI in proper well within 10 seconds. complete. All three lights for affected RRBI will light and alarm will sound if active. E1 Temperature Control Error Call for repair or replacement. E3 Memory Error. Call for repair or replacement. E4 AnalogDigital Conversion Error. Call for repair or replacement. E7 Communications Error Call for repair or replacement. This error will occur if internal communications have failed. E8 Bulb Error Call for repair or replacement. This error occurs if the system detects that the bulb is too dim to properly read RRBI results. E9 Transport Error Call for repair or replacement. This error will occur if the

system detects a motor failure or positioning problem. 3M Page 8 of 9 Attest 290 Autoreader 11 TROUBLESHOOTING GUIDE Trouble Shooting Guide Continued Code Problem Solution Other Unwanted alarm sounds when Turn alarm off, refer to features positive detected. Section. Other All three lights blink and buzzer sounds. Other Red, yellow, or green lights do not Specific light burned out. Other Negative Control Vial Other Vial not crushed. Media did not wet the spore strip. Control vial was sterilized. Unexplained positive Adhesive residue on vial. Test vial is absorbing fluorescent residue from a chemical indicator or tape. Crush vial before inserting into well. Tap vial on table until media wets spore strip. Use a nonsterilized vial as a control. Check chemical indicator on label. Do not place tape or labels on vial. Place the vial so it does not come in direct contact with chemical indicators or tape. Repair and Replacement Attest 290 Autoreaders must be repaired at 3M Health Care Service Center Suite 200, Bldg Granada Avenue North Oakdale, MN Fax Outside of the USA, contact your local 3M Subsidiary.

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