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MEMO: Removal of Express Scan Lamphouse Coolers
-Resolution lamphouse overheating & cooling problems

To remove the lamphouse cooler.

- 1. Turn off scanner and unplug the scanner power cord.**
- 2. Remove the two screws for the lamphouse cover & remove and set aside the lamphouse cover.**
- 3. Use a piece of tape to hold the lamphouse diffuser in place. Do not place the tape on the lamphouse heatsink. You will remove the heatsink next.**
- 4. If the heatsink is made of black fins about 1.75in. long then [STOP] reassemble the scanner, you will need to contact Express Imaging Systems for a new heatsink.**
- 5. Inspect the lamphouse and heatsink. See figure 1, if the heatsink is mounted directly on the back of the lamphouse (no space between the lamphouse and heatsink) then there is no cooler installed. [STOP] reassemble the scanner. No action is necessary.**
- 6. Remove the four screws that hold the heatsink onto the back of the lamphouse. Use the four holes in the back of the cooler bracket to access these screws. The heatsink is spring loaded. Loosen all the screws first before you remove the first screw.**
- 7. Place the heatsink, springs and screws aside. You will reinstall the heatsink after the cooler has been removed.**

- 8. The cooler is .75in Square with two wires attached and is covered with white heatsink compound. Cut these two wires and place the cooler aside. It will not be used again. Push the cut wires that are coming through the scanner wall back into the scanner.**
- 9. Remove the back of the scanner.**
- 10. Remove the plug from J21 on the RGB controller board. This will be behind the air hose that goes up to the capstan motor.**
- 11. Remove the cable that was on J21 from under any wire clamps and slowly remove the wire from the scanner. This wire goes to the lamphouse and connects to the wires that were cut when you removed the cooler.**
- 12. Replace the scanner back.**
- 13. Reinstall the heatsink on the back of the lamphouse. DO NOT wipe off any of the white heatsink compound. This is still needed for proper heat transfer from the lamphouse to the heatsink.**
- 14. Replace the lamphouse cover.**
- 15. Plug in and turn on the scanner.**
- 16. Test the scanner.**

New heatsink with cooler installed

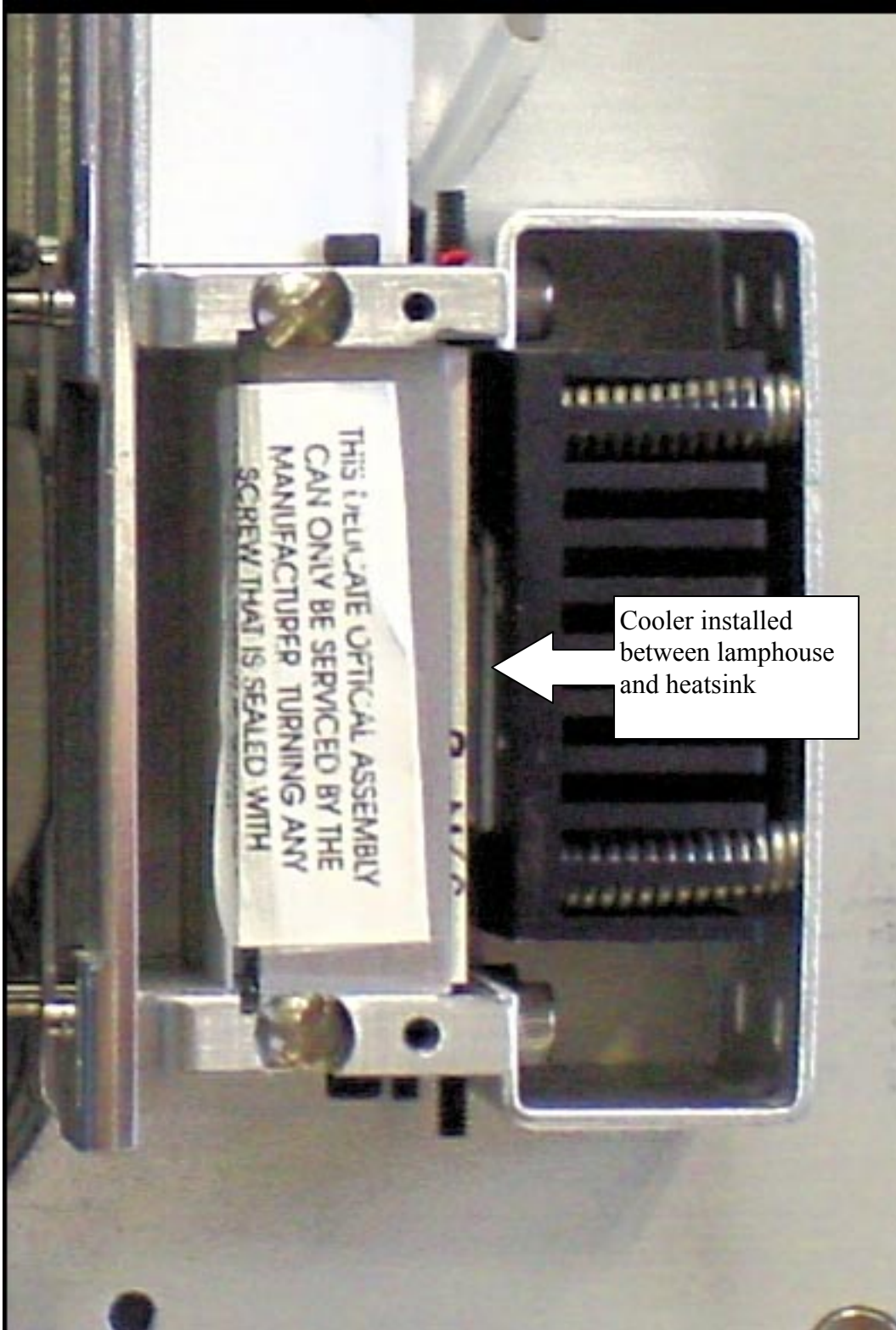


Figure 1