

NUMBER: 20

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x APPLICATION x SERVICE

SUBJECT: CPU-95 Display Contrast Adjustment

Some applications of the CPU-95 Display Module may require a "Display Contrast" adjustment when installed in warmer than usual locations. The initial factory adjustment is set for maximum contrast in the normal range of ambient temperatures, but if the units temperature is elevated, the display segments may start to turn black and a contrast adjustment is required. The procedure to adjust the contrast is as follows:

1. Shutdown the engine if the CPU-95 is using a 4-20mA loop to control the timing. If the unit uses timing vs. RPM it will not be necessary to shutdown the engine.
2. Remove the electrical connector from the back of the Display Module.
3. Remove the display module from the panel.
4. Remove the four screws from the front of the Display Module. Remove the back cover.
5. Remove the three screws that hold the circuit board to the front cover.
6. Locate the potentiometer at the lower right side of the display.
7. Power the unit by reconnecting the power connector.
8. The initial factory setting of the potentiometer is full counterclockwise for maximum contrast. Turn the potentiometer clockwise until the display gets lighter. Do this until the display is too light to read. (approximately 4 turns)
9. Turn the potentiometer counterclockwise 1.5 to 2 turns so that the display is reading correctly. This completes the adjustment.
10. Remove power and reassemble the unit.
11. Reinstall the unit in the panel and connect power.