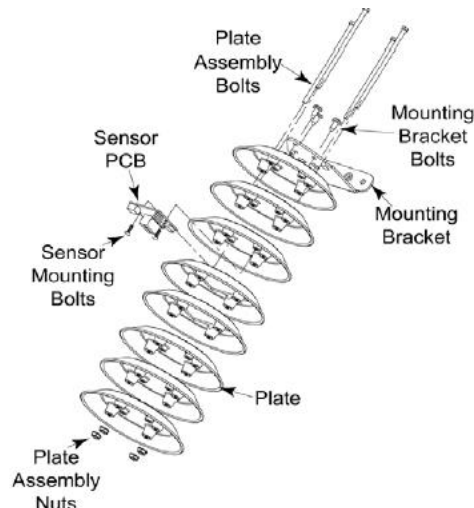




Task (Major Step)	Key Points / Reason Why	Tools / Skills / Info Required	Cycle Time	Details
1 Notify Daktronics of arrival and verify display information	A. Access the Digital Billboard Maintenance Check Checklist. B. Contact Daktronics at 1-877-DAK-HELP (1-877-325-4357) to notify them that you have arrived on-site. C. This information is necessary to maintain customer information at Daktronics. Please complete all of this information prior to submitting the checklist.	Digital Billboard Maintenance Check Checklist		
2 Checks from the ground	A. Record display condition prior to the maintenance check by taking photos of the following states: i. Piece of advertising content ii. Test Patterns: Red, Green, Blue, White, Mod Map B. Obtain the KWH reading on the meter at the base of the pole and record on checklist. C. Measure display grounding. Verify it measures 10 ohms or less. i. If measurement is greater than 10 ohms, improve grounding until it measures appropriately.	Camera Multimeter		
3 Checks from front catwalk or lift	A. Inspect the structure, catwalks, and ladders for structural integrity. B. Clean the webcam lens. Refer to DD1509618 for webcam cleaning information. C. Check for visual issues with the face of the display. i. Look down the display face from side to side and bottom to top for protruding modules to ensure all modules are seated properly. ii. Look for stuck pixels, bent LEDs, broken louvers, or other visual problems that may affect image quality. Replace components as needed. D. Clean and test the Photocell or Multi-Direction Light Sensor (MDLS). i. Clean the Photocell (Figure 1) or MDLS (Figure 2) by following the appropriate procedure in DD1509618. ii. Test by covering it with a dark cloth bag to block incoming light.	Alcohol or Lens Cleaning wipes Dark Cloth Bag DD1509618: Digital Billboard Photocell, Light Sensor, and Webcam Cleaning Procedures		 <p style="text-align: center;">Figure 1</p>
4 Checks from rear of display	A. Check condition of back sheets. i. Check the rear of the display for holes from missing hardware or gouges. Fill holes with silicone. ii. Check for gaps along back sheet edges. For gaps larger than 6", insert tek screws into the display to shorten the gap length. Apply silicone along the seam and over the tek screw heads. iii. Inspect splice sections for signs of water intrusion. If water intrusion is suspected, fill any holes or gaps in the area with silicone. B. Inspect air intake, fans, and filters (if equipped). i. Check air intakes for signs of clogging. Remove and clean if necessary. ii. Verify that fans are operating properly. iii. For DB-4100 series billboards only: Remove the display cabinet filters and do not replace them. o Research and testing by Daktronics has determined that filters are not necessary for this model. o All components used in this series are sealed and unaffected by dust and debris buildup. o Removing filters ensures consistent airflow and cooling in the cabinet. iv. For DB-1000 – DB-4000 series billboards equipped with filters, i. Verify the fan filter system is functioning properly. ii. Inspect and change filters. Daktronics will provide any required display filters before each maintenance check. C. Inspect the display thermostat located on the top-right of the rightmost vertical. i. Verify thermostat is set to 85° F.	Silicone approved for use on aluminum		 <p style="text-align: center;">Figure 2</p>
5 Spare parts box checks (DB-1000 to DB-4200 series only)	Note: Proceed to Step 6 for billboards without a spare parts box. A. Inspect the spare parts box for signs of water intrusion. B. Perform an inventory of the spare parts box and document on checklist. i. Note on checklist if spare parts are located off site. C. Place the key to the spare parts box in the control enclosure.			
6 Control enclosure checks	A. Check proper operation/settings of the cooling fan and heater in the enclosure. Take a photo of the enclosure thermostat settings to submit with the checklist. i. Verify the red dial is set to 40° F and the blue dial is set to 80° F. B. Inspect the SmartLink™ (if applicable). i. Check for signs of damage or water intrusion. ii. Ensure the SmartLink™ door is closed and fully latched. Note: Inspect the SmartLink™ only if it was installed by Daktronics. To identify a SmartLink™ installed by Daktronics, look for a decal on the SmartLink™ referencing Daktronics contact information. Refer to Figure 3 . C. Check the control enclosure filter for cleanliness.			

Task (Major Step)	Key Points / Reason Why	Tools / Skills / Info Required	Cycle Time	Details
6 Control enclosure checks (continued)	<ul style="list-style-type: none"> i. If needed, replace the filter with a spare filter from the spare parts box. If spare parts box is not present on site, contact the local customer office to obtain a filter. D. Inspect cabling and wires in the control enclosure and to the DMP-8065 for signs of wear, fraying, loose connections, or other issues. E. Check the battery level of the UPS unit (if equipped). F. Check connections at center of display. <ul style="list-style-type: none"> i. Check webcam, light sensor, and temperature sensor connections for signs of wear, fraying, signs of corrosion, or loose connections. ii. Dip the webcam connections in electrical grease to prevent future corrosion. G. Verify control enclosure door is shut and latched properly. 			 <p style="text-align: center;">Figure 3</p>
7 Checks requiring assistance from Daktronics Help Desk	<ul style="list-style-type: none"> A. Call Daktronics Help Desk at 1-877-DAK-HELP (1-877-325-4357) B. Have Help Desk Technician verify the web camera is aimed and focused. Adjust as necessary. C. Have the Help Desk Technician cycle relays 1-3 on the SmartLink™ (if equipped) to ensure they are functioning properly. D. Have the Help Desk Technician confirm the SmartLink™ is online and operating correctly (DB-4200 and DB-5000 series only). E. Have the Help Desk Technician turn display to all White pattern. Verify the voltage on each leg (L-G, L-N, N-G). If the voltage reading is not 120V +/-5% on each leg, check amperage in the display's breaker panels and discuss a plan of action with the Help Desk Technician. Record the voltage of each leg on the checklist. F. Have Help Desk Technician verify that IDM diagnostics is free of errors. G. Inspect the display from ground level for any visual issues, such as dim modules, bright modules, discolored modules, or a quilted-looking display face. <ul style="list-style-type: none"> i. If there are any modules that do not match the surrounding modules, have the Help Desk Technician participate in a remote calibration. Daktronics recommends calibration at every service call. H. Take photos of the display in the states below after the maintenance check is complete. <ul style="list-style-type: none"> i. Piece of advertising content ii. Test Patterns: Red, Green, Blue, White, Mod Map I. Have the help desk technician return the display to scheduled content. 			
8 Current service initiatives	<ul style="list-style-type: none"> A. The items below include ongoing service initiatives for Daktronics Digital Billboards. If any of these items pertain to the display, the applicable document(s) will be attached to the service request. Contact your Account Service Manager if you have any questions. <ul style="list-style-type: none"> i. Heater Circuit Conversion Kit (DB-4200 series only) ii. Noise Filter Kit Installation (DB-4200 series only) iii. ISP Enclosure Line Filter Installation (DB-4200 series only) iv. SATA Cable Inspection (All Models) <ul style="list-style-type: none"> i. Check gasket color, part number and revision number on SATA cables per instructions in DD3265251 and document in the Section 8 – Notes field on the checklist. 	DD3014485: Heater Circuit Conversion Kit DD2401192: Digital Billboard Noise Filter Installation DD3091964: ISP Enclosure Line Filter Installation DD3265251: Inspecting SATA Cables		
9 Closeout activities	<ul style="list-style-type: none"> A. Complete the checklist and attach the following items: <ul style="list-style-type: none"> i. Display pictures taken prior to service. ii. Photo of enclosure thermostat setting. iii. Display photos taken after service. B. Click Submit to return the form to Daktronics. 	Digital Billboard Maintenance Check Checklist		
		Total Cycle Time:		