MAINTENANCE CHECKLIST
RSS-2000 ELECTRIC VEHICLE BARRIER

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Quarterly Maintenance Checklist

Make copies of this checklist for maintenance activity for each barrier and maintain a copy in the maintenance binder for the Warranty/Historical Record.

<table>
<thead>
<tr>
<th>Location:</th>
<th>Unit Model #: RSS-2000</th>
</tr>
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<tbody>
<tr>
<td>Unit Serial #:</td>
<td>Voltage: 120/240 V Single Phase, 30 Amp</td>
</tr>
<tr>
<td>Barrier Cycle Count:</td>
<td>Date of Maintenance:</td>
</tr>
<tr>
<td>Name of Person Performing Maintenance:</td>
<td></td>
</tr>
</tbody>
</table>

1. Place necessary traffic safety cones to insure worker safety.
2. Visual check of the Control Panel and Battery Back-Up Panel. Ensure components have power. (Servo Drive, Loop Detectors, PLC, Inverter, etc.) Ensure sure panel is free of debris.
3. Check operation of unit. Operate 3 times. Ensure that the post assembly operates smoothly (less than 3 seconds) and the barrier rises to the fully UP position and the barrier lowers to the fully DOWN position flush with barrier top access plates.

4. Check LED Safety Lights on barrier’s Post Assembly for proper operation.
5. Check top plates for missing or damaged screws
6. Check alignment of the Post Assembly.

7. Remove Access Plates. Using a cordless drill with a T-45 TORX Head Bit remove the screws from the plates. After all screws are removed move the access plates from the barrier.
8. Check Actuator & Spring Assembly Pivot Arm Clevis Bracket Bolts. If these connections are not kept tight, it might cause loose motion that could result in excessive wear.

9. Check Actuator Clevis Pin & and Retaining Pin. Make sure these are tight. A loose fit might cause excessive wear and improper barrier operation.

10. Check Spring Assembly Clevis Pin & and Retaining Pin. Make sure these are tight. A loose fit might cause excessive wear and improper barrier operation. Also ensure that the Spring Assembly is straight and not shifted to one side.
11. ☐ Check Spring Assembly. Make sure springs are not broken. Also check anchor bolts and retaining pins to ensure none are loose. A loose fit or broken spring or retaining pin might cause excessive wear and improper barrier operation.

12. ☐ Lubricate Actuator Rod Eye. The Actuator Rod Eye requires greasing monthly or quarterly depending on usage. Use Chevron Ultra-Duty Greases EP, NGLI 2 or equal.

13. ☐ Check Chain Bolts. If these connections are not kept tight, it might cause loose motion that could result in excessive wear.

14. ☐ Check Split Journal Bearing Bolts. Make sure these are tight. A loose fit might cause excessive wear and improper bollard operation.
15.  

Check and Grease Split Journal Bearings. The Split Journal Bearings are greased through the lubrication system Zerk fittings at the front of the barrier. Use Chevron Ultra-Duty Greases EP, NGLI 2 or equal in a grease gun applying grease until it is visible at any point along either edge of the bushing and the shaft.

16.  

Check Post Assembly and touch up paint as needed. Use Enamel paint, Zinc Yellow or equal. Information on the paint can be found at Orbittx.com

17.  

Check Chain and touch up paint as needed. Use Rustolium Zinc Rich Primer (Black) or equal.
18. □ Check the unit interior for dirt, rocks, and other debris. Remove as necessary.

19. □ Replace the Access Cover Plates and screws (Apply Anti-Seize Lubricant to screws) and remove traffic safety cones.

SAFETY SUPPORT BAR LAYOUT
Make copies of this checklist for maintenance activity for each barrier and maintain a copy in the maintenance binder for the Warranty/Historical Record.

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1. ☐ Turn power on to unit check for proper voltage.
2. ☐ Place necessary traffic safety cones to insure worker safety
3. ☐ Check operation of unit. Operate 3 times. Ensure that the post assembly operates smoothly (less than 3 seconds) and the barrier rises to the fully UP position and the barrier lowers to the fully DOWN position flush with barrier top access plates.
4. ☐ Check LED Safety Lights on barrier’s Post Assembly for proper operation.
5. ☐ Check top plates for missing or damaged screws.
6. ☐ Check alignment of the Post Assembly.
7. ☐ Remove Access Plates. Using a cordless drill with a T-45 TORX Head Bit remove the screws from the plate(s). After all screws are removed move the access plates from the barrier.
8. ☐ Check Actuator & Spring Assembly Pivot Arm Clevis Bracket Bolts. If these connections are not kept tight, it might cause loose motion that could result in excessive wear.
9. ☐ Check Actuator Clevis Pin & and Retaining Pin. Make sure these are tight. A loose fit might cause excessive wear and improper barrier operation.
10. ☐ Check Spring Assembly Clevis Pin & and Retaining Pin. Make sure these are tight. A loose fit might cause excessive wear and improper barrier operation.
11. Check Spring Assembly. Make sure springs are not broken. Also check anchor bolts and retaining pins to ensure none are loose. A loose fit or broken spring or retaining pin might cause excessive wear and improper barrier operation.

12. Lubricate Actuator Rod Eye. The Actuator Rod Eye requires greasing monthly or quarterly depending on usage. Use Chevron Ultra-Duty Greases EP, NGLI 2 or equal.

13. Check Chain Bolts. If these connections are not kept tight, it might cause loose motion that could result in excessive wear. Apply Liquid Wrench, Industrial Chain Lubricant with Moly, PL711 or equal.

14. Check Split Journal Bearing Bolts. Make sure these are tight. A loose fit might cause excessive wear and improper bollard operation.

15. Check and Grease Split Journal Bearings. The Split Journal Bearings are greased through the lubrication system Zerk fittings at the front of the barrier. Use Chevron Ultra-Duty Greases EP, NGLI 2 or equal in a grease gun applying grease until it is visible at any point along either edge of the bushing and the shaft.

16. Check Post Assembly and touch up paint as needed. Use Enamel paint, Zinc Yellow (Paint # RAL 1018) or equal. Information on the paint can be found at Orbittx.com

17. Check Chain and touch up paint as needed. Use Rustolium Zinc Rich Primer (Black) or equal.

18. Check the unit interior for dirt and debris. Remove as necessary.

19. Replace the Access Cover Plates and screws (Apply Anti-Seize Lubricant to screws) and remove traffic safety cones.