Preventive Maintenance Manual

Eli ZERO Gen2 | Service intervals, inspection standards, and service records



Eli Electric Vehicles

Maintenance philosophy · Service intervals · Inspection standards
Diagnostics · Inspection checklist · Maintenance record

About This Manual

This manual sets out the preventive maintenance plan for the Eli ZERO Gen2. It covers the service intervals, the four core activities performed at every maintenance visit, inspection standards and key parameters, and the forms used to record each service.

How maintenance is scheduled

Maintenance is based primarily on calendar time, with distance as a secondary trigger. Perform each service at whichever interval occurs first.

Contents

1	Maintenance Philosophy	3
2	Service Intervals	3
3	Technician Preparation & Safety	4
4	Four Core Activities of Every Visit	4
5	Vehicle Inspection	5
6	Vehicle Diagnostics	6
7	Software & Configuration Review	7
8	Functional Road Test	7
A	Appendix A — Inspection Checklist	8
B	Appendix B — Maintenance Record	10

1 Maintenance Philosophy

Inspection before replacement

The purpose of preventive maintenance is to keep every vehicle safe, reliable, and at peak performance throughout its service life, while reducing unexpected failures and unnecessary warranty repairs.

Replace a component only when:

1. Inspection shows deterioration or damage
2. A scheduled replacement is specified
3. Component testing indicates a failure
4. An approved Service Bulletin or Service Campaign requires it

2 Service Intervals

The Eli ZERO Gen2 follows four scheduled services, each triggered by calendar time or distance.

#	Service	Interval	Est. labor
1	Initial Inspection	2 months or 1,000 km	1.0 h
2	Inspection Service	6 months or 5,000 km	0.8 h
3	Annual Service	12 months or 10,000 km	1.5 h
4	Major Service	24 months or 20,000 km	2.0 h

Service numbers 1–4 are the Service Type codes used in the Maintenance Record (Appendix B).

NOTE

Perform maintenance at whichever interval — calendar time or distance — occurs first.

3 Technician Preparation & Safety

Complete these steps before beginning any maintenance work.

Preparation

- Verify the VIN and vehicle configuration
- Review the previous repair history
- Check for open TSBs and Service Campaigns
- Verify the software version
- Prepare the required tools and replacement parts
- Connect a battery maintainer when performing software updates, if required

Safety

- Follow all High Voltage (HV) safety procedures
- Wear appropriate Personal Protective Equipment (PPE)
- Remove jewelry and conductive objects
- Use insulated tools when required
- Verify the vehicle is in a safe working condition before beginning maintenance

4 Four Core Activities of Every Visit

Every maintenance visit includes these four core activities.

1 **Vehicle Inspection** — Section 5

Complete a visual and functional inspection of all major vehicle systems.

2 **Vehicle Diagnostics** — Section 6

Run a complete vehicle scan with the approved Eli diagnostic tool (XTool) and save the diagnostic report.

3 **Software & Vehicle Configuration Review** — Section 7

Verify software and firmware updates, ECOs, TSBs, Service Campaigns, and related notices.

4 **Functional Road Test** — Section 8

Road test the vehicle before and after maintenance to verify acceleration, braking, steering, HVAC, and other functions.

5 Vehicle Inspection

At every visit, complete a visual and functional inspection of all major vehicle systems. Record the results in the Inspection Checklist (Appendix A, items 1–20).

5.1 Inspection coverage — every visit

- Tires & Wheels
- Brake System
- Electric Power Steering (EPS)
- Suspension Components
- Charge Port
- High Voltage Battery Exterior
- High Voltage Cables (visual)
- 12V Electrical System
- Exterior Lighting
- HVAC System
- Windshield Wipers & Washer
- Body & Exterior Condition

5.2 Component inspection & replacement standards

Component	Maintenance	Specification / Replacement Interval	Remarks
Cabin Air Filter	Inspect	Replace based on inspection	Replace when dirty, clogged, or odorous
Windshield Wiper Blades	Inspect	Replace when worn or streaking	Check rubber condition regularly
Remote Key Battery	Test	Type: CR2032	Replace when the low-battery prompt appears
12V Battery	Test	—	Terminals free of corrosion and looseness
Brake Pads	Measure	Replace at wear limit	Inspect together with the brake discs
Brake Fluid	Inspect; replace per schedule	DOT4; 500 mL; replace every 2 years	Keep level between MIN and MAX; refill at an authorized Eli dealer
Reduction Gear Oil	Inspect	GL-4 85W/90 (75W/90 in cold regions); 700–750 mL	Replace based on inspection
Tires	Inspect & measure	Pressure 195 kPa; size 165/65 R13 or 155/70 R13	Check for tread wear, cracks, foreign objects, and abnormal wear
HVAC System	Inspect	Refrigerant R134a, 360 ± 5 g	Check cooling, heating, and defrost functions
Charge Port	Inspect	—	Clean contacts; covers intact
High Voltage Battery Exterior	Visual inspection	—	Housing free of damage, leakage, and abnormal noise

5.3 Key specifications at a glance

BRAKE FLUID	REDUCTION GEAR OIL	HVAC REFRIGERANT
DOT4	**GL-4 85W/90**	**R134a**
500 mL; replace every 2 years	700–750 mL; 75W/90 in cold regions	360 ± 5 g

TIRE PRESSURE	TIRE SIZE	REMOTE KEY BATTERY
195 kPa	**165/65 R13**	**CR2032**
Check at every visit	or 155/70 R13	Replace when the low-battery prompt appears

6 Vehicle Diagnostics

Scan every vehicle with the approved Eli diagnostic tool (XTool) and follow the sequence below. Record the results in the Inspection Checklist (Appendix A, items 21–24).

1. Connect the approved Eli diagnostic tool (XTool)
2. Run a complete vehicle scan
3. Save the diagnostic report
4. Review current DTCs
5. Review historical DTCs
6. Diagnose active faults
7. Complete all required repairs
8. **Clear DTCs only after repairs are complete**
9. Verify the repair
10. Upload the diagnostic report when required

IMPORTANT

Never clear Diagnostic Trouble Codes (DTCs) before saving the diagnostic report. Historical fault data is valuable for Engineering, Warranty, and After-Sales analysis.

7 Software & Configuration Review

Confirm the vehicle's software and configuration are current. Review each of the following and record the results in the Inspection Checklist (Appendix A, items 25–30).

- Software updates
- Controller firmware
- Hardware change notices
- Engineering Change Orders (ECO)
- Technical Service Bulletins (TSB)
- Service Campaigns

BEFORE HANDOVER

Perform all approved updates before returning the vehicle to the customer.

8 Functional Road Test

Road test the vehicle before and after maintenance. Verify each of the following and record the results in the Inspection Checklist (Appendix A, items 31–38).

- Vehicle acceleration
- Regenerative braking
- Hydraulic brake performance
- Electric power steering
- Suspension
- HVAC operation
- Warning indicators
- Abnormal noise or vibration

A Inspection Checklist

Mark each item OK or NOK and add remarks where needed. The handover criteria are on the following page.

License Plate		**VIN**	
Date		**Odometer (km)**	

#	Inspection Item	Check Criteria / Standard	OK	NOK	Remarks
1. Vehicle Inspection					
1	**Tires & Wheels**	Pressure 195 kPa; no cracks, foreign objects, or abnormal wear			
2	**Brake System**	Fluid level between MIN and MAX; brake pads OK; no leaks			
3	**Electric Power Steering (EPS)**	Smooth operation; no abnormal noise			
4	**Suspension Components**	No looseness, noise, or oil leaks			
5	**Charge Port**	Contacts clean; covers and dust cap intact			
6	**High Voltage Battery Exterior**	Housing free of damage or leakage			
7	**High Voltage Cables (visual)**	No wear, damage, or looseness			
8	**12V Electrical System**	Terminals free of corrosion or looseness			
9	**Exterior Lighting**	All lights, turn signals, and brake lights working			
10	**HVAC System**	Cooling, heating, and defrost functions OK			
11	**Windshield Wipers & Washer**	Wiper blades OK; washer fluid adequate			
12	**Body & Exterior**	No damage; paint free of cracks			
2. Component Checks					
13	**Cabin Air Filter**	Clean; no clogging or odor			Replace based on inspection
14	**Windshield Wiper Blades**	No wear or streaking			Replace when necessary
15	**Remote Key Battery**	Function test OK			CR2032; replace when low
16	**12V Battery**	Voltage and start OK			Clean and tighten terminals
17	**Brake Pads**	Not at wear limit			Check together with brake discs
18	**Brake Fluid**	Level OK; no leaks			DOT4; every 2 years
19	**Reduction Gear Oil**	Level and condition OK			GL-4 85W/90 (75W/90 in cold regions)
20	**Tires**	Pressure and tread OK			Pressure 195 kPa

#	Inspection Item	Check Criteria / Standard	OK	NOK	Remarks
3. Vehicle Diagnostics					
21	**Complete Vehicle Scan (XTool)**	Scan completed; diagnostic report saved			
22	**DTC Review**	Current and historical DTCs reviewed			
23	**Repairs & DTC Clearing**	Repairs completed; DTCs cleared afterward			Never clear DTCs before saving the report
24	**Verification & Upload**	Repair verified; report uploaded when required			
4. Software & Configuration Review					
25	**Software Updates**	Verified			
26	**Controller Firmware**	Verified			
27	**Hardware Change Notices**	Verified			
28	**Engineering Change Orders (ECO)**	Verified			
29	**Technical Service Bulletins (TSB)**	Verified			
30	**Service Campaigns**	Verified; all approved updates performed before handover			
5. Functional Road Test					
31	**Vehicle Acceleration**	Normal			
32	**Regenerative Braking**	Normal			
33	**Hydraulic Brake Performance**	Pedal travel and braking force normal			
34	**Electric Power Steering (road test)**	Normal			
35	**Suspension (road test)**	No noise or abnormal movement			
36	**HVAC Operation**	Cooling and heating normal			
37	**Warning Indicators**	No abnormal warnings			
38	**Abnormal Noise or Vibration**	No abnormal noise or vibration			
6. Finalization & Delivery					
39	**Maintenance Log**	Record completed and archived			
40	**Pre-Delivery Check**	Vehicle in safe working condition; returned to customer			

Handover criteria

All items must be OK before handover. For any NOK item, record the reason in Remarks and re-inspect after repair or replacement.

Technician signature _____

B Maintenance Record

Vehicle information

License Plate		**VIN**	
Owner / Company		**Current Odometer (km)**	
Purchase Date		**Last Service Date**	

Service log

#	Service Date	Odometer (km)	Service Type	Work Performed	Technician	Remarks
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

Service Type codes: 1 = Initial Inspection (2 months / 1,000 km) · 2 = Inspection Service (6 months / 5,000 km) · 3 = Annual Service (12 months / 10,000 km) · 4 = Major Service (24 months / 20,000 km). Perform each service at whichever interval occurs first.

Use the Inspection Checklist (Appendix A) to record the vehicle inspection, diagnostic scan, software and configuration review, and road test.