

EV General Maintenance Plan



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Application:	EV (electric vehicles)				
Version:	All ZEB (excluding 5.6 and 7.5 metre AsiaStar product).				
Production:	Effective from vehicle produced on or after 2025.				



HAZARD

The following activities do not involve **High Voltage (HV)** repairers, however, be aware that the vehicle contains **HV** components that can cause serious injury or death. **DO NOT** disconnect, interfere or touch any **ORANGE** harnesses or cable unless qualified to do so.

Customer:		Date:	
VIN:		Rego:	
Yr/Model:		Kms:	
		RO No:	

"A" Service:

- 1st Inspection at **5000kms** (or 6 months) whichever occurs first.
- Than at **30,000kms**, and every **30,000kms** after that (or annually) whichever occurs first.

(SM) Special Maintenance:

- Required once the vehicles reaches a specific kilometre or time period (**refer last page**).

Item	Maintenance activities, inspection or checks	A	SM
1.0. General			
1	Check vehicle for fault codes or system errors , record and clear as required.		
2	Clean and lubricate the (24V) battery slides (if applicable) and terminals.		
3	Check operation of all external lights, including school lights (if applicable).		
4	Check the operation and condition of wipers and washers: fill the washer bottle.		
5	Check security, charge and expiry date of any fire extinguishers (including fire suppression systems).		
6	Check and torque all wheel nuts to the manufacturer's specifications.		
7	Inspect tyres for irregular wear or damage, record any discrepancies.		
8	Check tyre pressures and adjust as required (including spare wheel , if applicable).		
9	Inspect all glass for cracks, chips ,scratches or other damage.		
10	Inspect all mirrors/cameras to ensure they are securely mounted, lenses are clean, and there is no physical damage.		
11	Inspect all emergency decals to ensure they are present, legible, and securely affixed in the correct locations.		
12	Check operation of any access hatches, doors or bins.		
13	Check rear drive motor compartment for excessive build-up of dust, dirt or debris and clean with pressured air, if required.		

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2.0 Under vehicle inspections		A	SM
14	Inspect all coolant pipes to ensure they are secure and free from damage.		
15	Inspect all brake lines to ensure they are secure and free from damage.		
16	Inspect all power steering lines to ensure they are secure and free from damage.		
17	Check for air leaks.		
18	Preform a general check of chassis components, fasteners, wiring harnesses, and piping for leaks, damage and security.		
19	Lubricate all grease points.		
20	Drain air tanks to remove any water		
2.1 Front Suspension		A	SM
21	Check front suspension, ball joints, shock absorbers, air bags and steering knuckles for excessive movement / security, or damage.		
22	Check kingpins and wheel bearing for excessive movement.		
23	Check condition of the front brake rotors.		
24	Check front brake pad thickness and record measurements.		
25	Check out front wheel alignment.		
2.2 Rear Suspension		A	SM
26	Check rear suspension, air bags, shock absorbers, sway bar bushes for excessive movement / security or damage.		
27	Check condition of the rear brake rotors.		
28	Check rear brake pad thickness and record measurements.		
29	Check rear U-bolts tension (1200NM)		
2.3 Rear Axle		A	SM
30	Inspect rear axle for oil leaks.		
31	Check tail shaft for security and excessive movement.		
32	Ensure the rear axle breather is clean.		
33	Check rear axle oil level		
34	Replace rear axle oil (Item 82)		
3.0			
3.1 Traction motor		A	SM
35	Check for external damage.		
36	Clean the outside of the motor to remove excessive mud, dirt or debris , if required.		
37	Check the condition and security of motor mounts.		
38	Perform an external inspection of all electrical harnesses for security and damage.		
39	Replace Traction Motor Pressure Compensation element (item 88)		
40	Replace Traction Motor shaft sealing ring (item 85)		
41	Major overhaul of Traction Motor, replace bearings and grounding brush (item 91)		
3.2 Traction Batteries		A	SM
42	External inspection of battery casings for damage, leaks and security.		
43	External inspection of all coolant lines for security and damage.		
44	Perform an external inspection of all electrical harnesses for security and damage.		
3.3 Air Compressor Drive unit		A	SM
45	External inspection of compressor unit for damage , leaks and security.		
46	Perform an external inspection of all electrical harnesses for security and damage.		
47	Ensure drive is free of dust or mud build up on all surfaces. Clean with air gun if required.		
48	Inspect pre-filter of dust or blockage. Clean or replace as required.		
49	Inspect and clean air filter.		
50	Replace pre-filter and air filter element.		

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3.4 Power steering drive unit		A	SM
51	Check power steering fluid level and add fluid if required.		
52	External inspection of drive unit for damage , leaks and security.		
53	Perform an external inspection of all electrical harnesses for security and damage.		
3.5 Coolant system		A	SM
54	Check coolant levels and add coolant if required.		
55	Check anti/freeze/glycol .		
56	External inspection of drive unit for damage / leaks and security.		
57	Perform an external inspection of all electrical harnesses for security and damage.		
4.0. Interior inspection		A	SM
58	Check all seats for damage and security, including Driver's seat.		
59	Check operation of all seat belts (if applicable).		
60	Inspect emergency hammers and lighting for operation, and decals for fading and damage.		
61	Check driver's seat for functionality, security and damage.		
62	Check USB connectors for functionality (if applicable).		
62	Check operation of all internal lighting.		
63	Carry out Air Conditioning service.		
5.0 Door inspection (repeat each task on all doors)		A	SM
<i>Ventura doors reference "PlugslidingDoor_MM_PS2_200001.PDF" and InwardGlidingDoor_MM_IG4_100001.PDF"</i>			
64	Check for ease of movement, height, position, and alignment of door leaves.		
65	Check operation for entrapment safety .		
66	Inspect emergency decals for fading and damage.		
67	Check operation of wheelchair ramp for ease of movement and safety interlock.		
68	Check doors to ensure compliance to TS160.		
6.0 Roof inspection			
69	Check the roof-mounted battery casings for signs of damage, leakage, and security		
70	Check the roof-mounted battery coolant lines for security and damage.		
71	Check the roof mounted battery electrical harnesses for security and damage.		
72	Check battery compartment for excessive debris and clean as required.		
73	Check battery coolant package for damage , leaks and security.		
74	Check radiator coolant package for debris and clean with compressed air if required.		
7.0. Road test			☒
75	Check operation of horn.		
76	Check operation of all gauges , switches and controls.		
77	Check operation of park brake.		
78	Check operation of brakes for smooth and controlled braking.		
79	Check steering operation for response, smoothness without vibration or excessive play		
80	Check operation of air conditioning		

7.0. *Special Maintenance (ONLY) to be conducted if the kilometres or time warrant it.

81	Carry out CATL battery maintenance procedure every 12 months .
82	Replace rear axle oil every 2 years or 60,000kms (whichever occurs first)
83	Replace air compress filter element every 12 months or 60,000kms (whichever occurs first).
84	Replace air dryer cartridge every 12 months or 120,000kms (whichever occurs first).
85	Replace Traction Motor Shaft seal ring every 3 years or 200,000kms (whichever comes first)
86	Replace DIS (Drive Inverter System) pressure compensation element every 3 years
87	Replace PDB (Power Distribution Box) pressure compression element every 3 years
88	Replace Traction Motor Pressure Compression element every 3 years or 200,000kms (whichever comes first)
89	Replace power steering fluid every 3 years or 300,000kms (whichever occurs first)
90	Replace coolant every 8 years .
91	Major overhaul of Traction Motor, replace bearings and grounding brush every 6 years or 400,000kms (whichever comes first)
92	Carry out front wheel alignment every 12 months or as required.
93	Carry out Air Conditioning service , as per manufacturers specifications,

Comments / findings:

Completion

Dealership/ agent:

Technicians name:

Signature:

Date vehicle cleared to return to service: