

Instruction before using battery

- Please use original battery and do not use other brands.
- Check whether the appearance of the battery is intact and ensure that there are no obvious phenomena such as damage, leakage, heating, soaking, and smoking.
- To ensure transportation safety, the battery capacity is around 30%. Due to self consuming factors such as transportation and storage cycles, it is normal for the battery to be low or empty during first use. Do not worry, just follow the charging instructions for charging.

 **ATTENTION:** Waste batteries cannot be dismantled without authorization and it should be recycled and disposed of by relevant professional departments.

Precautions for battery use

- Please exhaust the battery when using it for the first time and then fully charge it. Full charge, full discharge, 2-3 cycles to ensure that the actual battery capacity is consistent with the dashboard display.
- In the later use, try to maintain the battery level no less than 20%, and charge it timely to extend the battery's cycle life.
- When riding normally, it is recommended to use ECO mode, slowly operate the throttle when starting, and gradually accelerate to extend range.
There may be deviations between the actual capacity and display with the increase of frequency of use. Please regularly (no more than 3 months) fully charge and discharge the battery, and the internal cells and BMS can automatically calibrate the battery level.
- It is recommended to check the power plug of the battery every two months to confirm whether there is carbon deposition and oxidation blackening on the contact spring. If so, please go to the dealer for maintenance.

 **ATTENTION:** Avoid soaking the battery in water. Do not expose the vehicle to water levels that exceed the bottom of the battery compartment. This can cause water intrusion, short circuit, and permanent battery damage. In the event that this happens, it is strictly prohibited to charge again, as it may cause fire or explosion.

Use Environment



Operating in -10~45°C
(14 ~ 113°F)
environment temperature



Please avoid soaking
the battery with water,
drink, corrosive liquid,
etc



Please avoid the exposure
of batteries to any heat
sources, open flames,
flammable and explosive
gases (liquid)



Please avoid metal
foreign objects
entering the interior
of the battery

In cold environment, the usable capacity of the battery will experience varying degrees of attenuation, reference: 70% at -10°C (14°F), 85% at 0°C (32°F), and 100% at 25°C (77°F). If the battery has odor, heat, deformation, or other abnormal conditions, please stop using it immediately, stay away from the battery, and contact the dealer.

⚠ WARNING: The battery is not a user repairable component. If any abnormalities occur, please contact the dealer.

Unauthorized disassembly of batteries will not enjoy warranty policy and may cause the battery to generate heat, smoke, catch fire, or explode.

Storage environment

- Please store the battery at 0°C (32°F) to 25°C (77°F).not over 40°C (104°F).
- The most suitable storage capacity for batteries is 50%. Long term storage of battery capacity below 10% or above 90% will result in irreversible capacity degradation.
- The technical standards for the self consumption protection mode of lithium batteries in a safe storage environment are as follows:
 - (1) Long term non use, stored in the vehicle (without unplugging the battery plug), with a maximum safety period of one month.
 - (2) Long term non use, battery capacity not less than 50%, stored separately, with a maximum safety period of 3 months.Otherwise, it may cause battery dead and irreversible damage. The battery failure caused by this will not be covered by the warranty.

Precautions for using charger

- When charging, keep the battery in a safe place where children can't reach.
- Do not cover the charger when charging. This charger is for indoor use, please make sure to use it in a dry, well-ventilated environment.
- When you smell something peculiar or find that the temperature of the charger or battery pack is too high, or abnormal indicator light please stop charging immediately.
- Do not disassemble or replace the components inside the charger on your own. When replacing the charger, it should match the battery model.

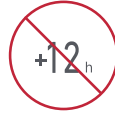
Charging Environment



Please use the matching original charger



Please charge the battery at 0~35°C (32 ~ 95°F)



Please do not exceed 12 hours of charging time

- The battery level increases rapidly in the early stage of charging, but slows down in the later stage. This is a program set for charging safety, which is normal.
- During winter charging, when the environment is below 0°C (32°F), the battery will stop charging, which is normal.
- During the charging process, charger surface temperature is high, which is normal. Please be careful not to be touched by children

Precautions for Motor

- Do not overload riding. When the vehicle cannot start normally due to obstruction, do not start repeatedly. Remove the resistance before starting.
- When the height of the water on the rainy road exceeds the central axis of the motor, do not drive in surface gathered water. This can cause water leakage in the motor and cause motor failure. (Not covered by warranty)
- Daily use does not require maintenance of the motor, but attention should be paid to the tightening status of the installation nuts of the motor shaft. If any nuts are found to be loose, they should be tightened in a timely manner or inspected by a professional.
- It is recommended to inspect the motor at the dealer every three months.

Precautions for FOC

- Keep the FOC dry and prevent it from being soaked in water on rainy days.
- When the FOC plug is corroded by rainwater, it should be promptly wiped with clean water or alcohol to avoid oxidation and corrosion.
- Do not overload the FOC for a long time, as it may cause aging of internal components, reduced performance.
- When braking, it is important to be as gentle as possible. Braking too hard or frequently can cause damage to the FOC and also affect safety, especially in rainy and snowy days.

ARE YOU READY?

⚠ ATTENTION: Please check the vehicle components before riding. Once finding any abnormality, please repair in time or seek help from a specialized repairer.

- Check whether the pressures of front and rear tires are maintained at 250 kPa and 250 kPa respectively;
- Check whether any tire shows obvious signs of crack, bump and abnormal wear;
(Notes: Low pressure, cracking, damage and abnormal wear of tires may affect the endurance mileage or cause steering failure or tire burst, and even an accident.)
- Check whether the air switch (if any) mounted in the bucket seat is opened. If the switch is closed, please turn it to the "ON" position;
- Check whether the speed control handle and brake lever are normal and effective;
- Check whether the headlight, turn light and other signal lamps function normally;
- Check whether the horn functions normally;
- Check whether the flexible steering is possible, and whether the steering handle shows any signs of gap, looseness, over-tightness or stuck in the process of moving it up and down, left and right, back and forth;
- Check whether the rider can observe the images within a scope of 10m (length) and 4m (width) through the rearview mirror;
- Check whether the battery level is sufficient for your riding needs.

Start a smooth riding after the simple three-step preparation.

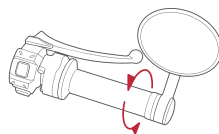
How to Ride: Before riding, please wear the professional helmet and confirm that the vehicle is powered on.



Step 1 Fold up the side stand.

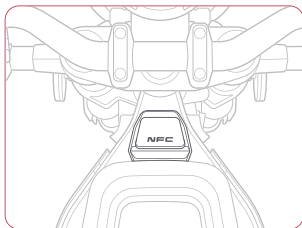


Step 2 Hold the brake and lightly click the green start button on the right side of the handlebar to enter READY mode.

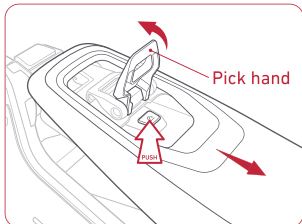


Step 3 Speed up and reduce acceleration by controlling the throttle.

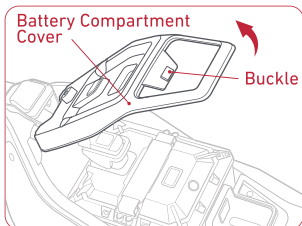
How to Open and Close the Battery Compartment



Step 1 Unlocking by bluetooth or NFC.



Step 2 Pull back the handle to expose the cushion lock button, press the button to unlock the cushion, and remove the cushion.



Step 3 Unlock the buckle on the battery compartment cover to open and remove the battery.

Reporting Safety Defects

Jiangsu Niu Electric Technology Co., Ltd

No. 387 ChangTing Road, West Taihu Science and Technology Industrial Park

ChangZhou City, Jiangsu Province, China

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Jiangsu Niu Electric Technology Co., Ltd.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Jiangsu Niu Electric Technology Co., Ltd.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <http://nhtsa.safecar.gov>; or write to Administrator, NHTSA, 1200 New Jersey Avenue SE, Washington, DC 20590. You can also obtain other information about motor vehicle safety from <http://www.safecar.gov>

Federal Communications Commission (FCC) Compliance Statement for USA

The Smart Central Controller, the Remote Controller and the Alarm comply with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FCC ID: 2AZ6G-X3JW552

IC: 27459-X3JW552

MODEL: XQi 3

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s licenceexempt RSS(s). Operation is subject to the following two conditions:

- (1)This device may not cause interference.
- (2)This device must accept any interference, including interference that may cause undesired operation of the device.

This device must be installed and operated with a minimum distance of 20 cm between the radiator and user body.
Le présent appareil doit être installé et exploité à une distance minimale de 20 cm entre le radiateur et les corps.

Maintenance and Repair

All maintenance items are shown in the table below, and the actual maintenance items will be flexibly selected based on the model, mileage, and time:

Category	Inspection item	Electric parts	APP function
Structural components	Vehicle nut fastener	Suspension+ steering system	Front/rear shock absorber
	Vehicle bolt fastener		Handlebar steering
	Tires		Front wheel
	Wheel Hub	Batteries	Battery box appearance
Brake system	Brake oil		Waterproofness
	Brake noise		Battery detection
	Braking effect		Charging test
	Brake disc		Riding
Electric parts	Power lock, alerter	Transmission system	Vehicle operation
	Light		Vehicle noise
	Meter display		Parking
	Combination switch		Chain tightness and noise
	Charger voltage		Sprocket teeth appearance

No	Item	Inspection and maintenance		240-360mile (within 1 month)	840-960mile (within 4 months)	1740-1800mile (within 10 months)	More than 1800mile
							Every 900mile or six months
1	Plastic parts	Plastic parts appearance		✓	✓	✓	✓
2		Gap		✓	✓	✓	✓
3		Saddle	Suggest replacing every three years	✓			
4	Structural components	Vehicle nut fastener		✓		✓	✓
5		Vehicle screw fastener		✓		✓	✓
6		Vehicle bolt fastener		✓		✓	✓
7		Middle shoring/side shoring		✓	✓	✓	✓
8		Fastening of front and rear axles			✓	✓	✓
9		Fastening of mounting brackets			✓	✓	✓
10		Tires	Suggest replacing every 10,000 km	✓	✓	✓	✓

No	Item	Inspection and maintenance		240-360mile (within 1 month)	840-960mile (within 4 months)	1740-1800mile (within 10 months)	More than 1800mile
							Every 900mile or six months
11	Brake system	Brake oil mass	Suggest replacing every two years			✓	✓
12		Brake noise		✓	✓	✓	✓
13		Braking effect				✓	✓
14		Brake appearance				✓	✓
15		Brake pad	Suggest replacing every 10,000 km			✓	✓
16		Spring leaf	Suggest replacing every 10,000 km				✓
17		Brake hose	Suggest replacing every three years				✓
18		Brake disc					✓
19	Electric components	Power lock		✓			✓
20		Light					✓
21		Meter display		✓			✓

No	Item	Inspection and maintenance		240-360mile (within 1 month)	840-960mile (within 4 months)	1740-1800mile (within 10 months)	More than 1800mile
							Every 900mile or six months
22	Electric components	Switch	Suggest replacing every three years	✓	✓	✓	✓
23		Alerter and horn		✓	✓	✓	✓
24		Motor		✓	✓	✓	✓
25		Charger voltage		✓		✓	✓
26		Controller		✓	✓	✓	✓
27		APP function		✓	✓	✓	✓
28	Line	Power connector			✓	✓	✓
29		Controller plug		✓	✓	✓	✓
30		Brake switch plug					✓
31	Suspension+steering system	Front and rear shock absorbers	Suggest replacing every 15,000 km				✓
32		Handlebar steering		✓		✓	✓

No	Item	Inspection and maintenance		240-360mile (within 1 month)	840-960mile (within 4 months)	1740-1800mile (within 10 months)	More than 1800mile
							Every 900mile or six months
45	Trans- mission system	Chain tightness and noise		✓	✓	✓	✓
46		Sprocket teeth appearance		✓	✓	✓	✓
Wheel Hub		Spoke Maintenance		60mile ✓		More than 60mile Every 310mile-600mile ✓	

Brake repair

- Check regulrlay and replace fluid if necessary;
- Replace the brake fluid every two years;
- Replace brakes hoses every 3 years or if it is broken/damaged.

Vehicle Cleaning

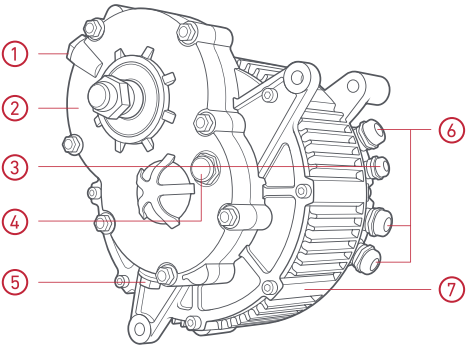
Please wash the vehicle using tap water and some neutral detergent, and then wipe with a piece of soft cloth.

⚠ ATTENTION: Do not directly wash both sides and internal rear part of the battery box with a high-pressure water gun. Do not directly flush the side cover above the rear wheel inside which there are electronic components such as the charger and controller, to avoid any possible damage by water erosion.

Vehicle Storage Method

- Please put the vehicle in a flat, stable, well-ventilated and dry place;
- Please avoid the exposure of the vehicle to the strong sunlight and rain as much as possible, to minimize the damage or aging of parts and components;
- The batteries to be stored for a long term will be maintained in accordance with the Instructions on Battery Use and Maintenance;
- The batteries stored for a long term shall be fully charged before reuse;
- In case of finding any exception in parts, contact your dealer.

Engine Maintenance and Repair



- ① Exhaust valve+oil injection port
- ② Gearbox
- ③ Signal line
- ④ Oil sight glass
- ⑤ Oil drain port
- ⑥ Phase line
- ⑦ Motor

Common faults	Solutions
abnormal sound	Clean the gear oil and check if there are any foreign objects inside the assembly
	Check if the bearing is damaged
Rapid temperature rise in a short period of time	Check if the vent plug is blocked
	Check if the bearing is damaged
Oil leakage	Check if the oil drain plug is tightened
	Check if the oil filling plug is tightened
	Check if the oil filling plug is tightened
	Check if the fastening bolts on the box shell joint end face are loose
	Check if the oil seal is damaged

Care and Maintenance

1.Use

During operation, if FOC cannot work, the vehicle cannot be directly started;

During operation, there should be no intermittent or abnormal sound or vibration; During operation, if gear oil is not added (add 5W-30 oil, approximately 130mL, and the oil port nut has a torque of 10N. m), the vehicle cannot be started directly.

2.Maintenance

First maintenance of the assembly after driving 1800 mile.During the first maintenance, it is necessary to replace the gearbox gear oil, clean the iron filings adsorbed on the oil drain plug, and clean the remaining iron filings inside the gearbox; Clean the dust and foreign objects around the ventilation plug; Check the signals of each sensor and the tightening of bolts.

After the first maintenance, perform maintenance checks on the assembly according to the vehicle maintenance requirements, as follows:

Check the motor sensor signal and if any broken or damaged wires are found, replace them;

Check the suspension of the assembly and whether the fastening bolts of each part are loose. If any looseness is found, it must be immediately tightened;

Check the sealing surfaces and oil seals of the assembly, replace damaged oil seals to ensure the sealing performance of the assembly;

Clean up foreign objects around the ventilation plug and keep it unobstructed;

According to the driving situation of the vehicle, replace the gear oil and clean the iron filings every 4 months or 3000 mile (whichever comes first).

Troubleshooting

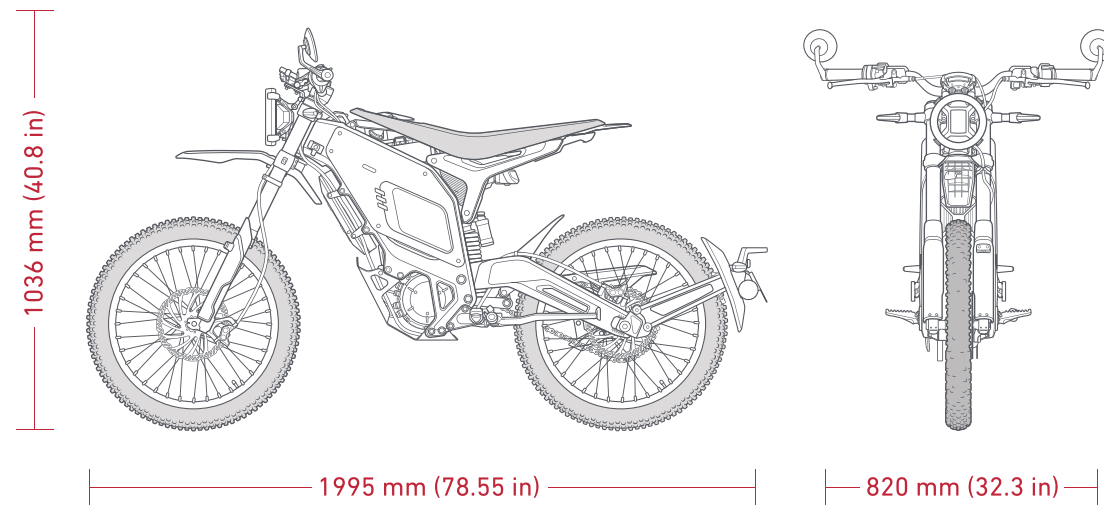
Malfunction Description	Causes	Troubleshooting
No power output after turning on the power	No power supply	1.Check whether the battery plug is fixed well 2.Charge batteries
Failure to start the motor after turning on the power and rotating the speed control handle	1.In the brake state 2.In the parking state 3.Failure to retract the side shoring (if any) 4.Start switch fault	1.Check whether the brake lever is in the brake state 2.Refer to the "Starting Operation" section hereof 3.Retract the side shoring 4.Contact the after-sales service personnel and check the start switch
Insufficient endurance mileage	1.Insufficient battery charging 2.Insufficient tire pressure 3.Frequent braking and overload 4.Battery aging or normal attenuation 5.Reduction of battery capacity due to too low ambient temperature	1.Check whether the charge is damaged 2.Check the tire pressure before use each time 3.Develop a good riding habit 4.Replace batteries 5.Confirm it is a normal phenomenon

Malfunction Description	Causes	Troubleshooting
Failure to charge batteries	1.Failure to fix the charger plug 2.Too low battery temperature 3.Too high battery temperature	1.Check whether the plug is loosened 2.Wait for recharging the batteries at the proper temperature 3.Wait for recharging the batteries at the proper temperature
Failure to charge USB	1.Failure to fix the plug 2.Nonconformance of the USB cable to the mobile phone standard 3.Damage of the USB charger	1.Check whether the USB plug is fixed well 2.Please purchase the connection cable in line with the mobile phone standard 3.Contact the after-sales service personnel to replace damaged components

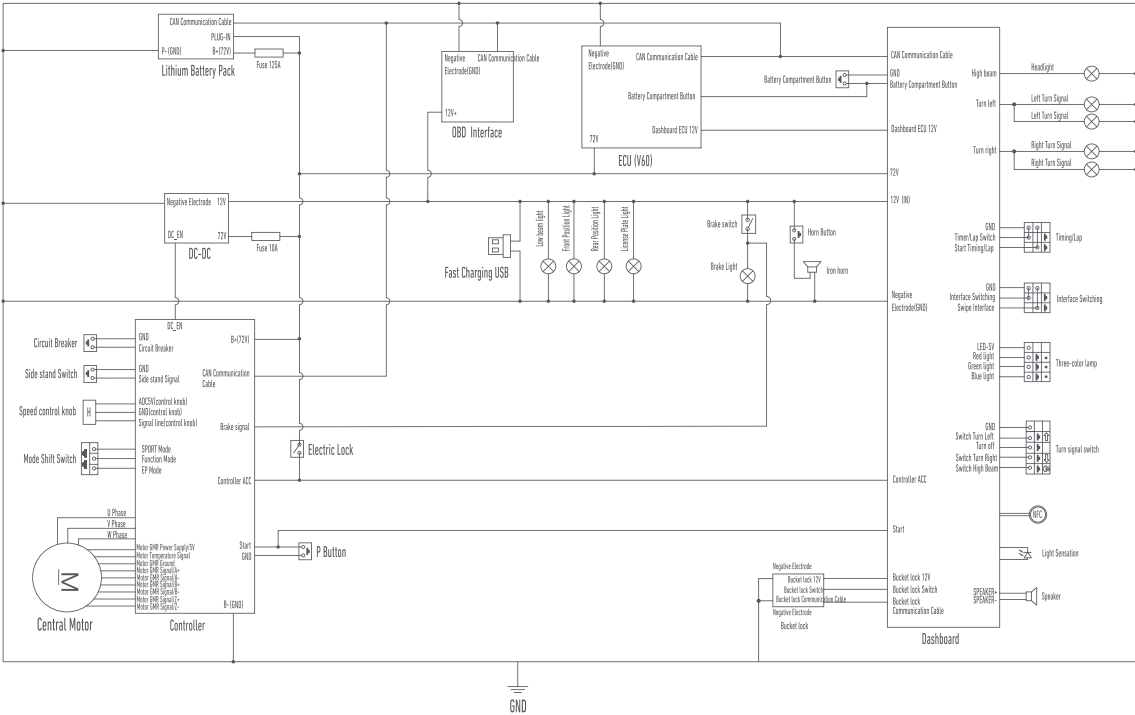
Code	Code Meaning	Troubleshooting
138	Battery MOS damaged	Please contact after-sales service
136	Battery water ingress	
135	Battery short circuit protection warning	
134	Battery open circuit or imbalance alarm	
130	Battery over discharge protection warning	
132	Battery overheat protection warning	
133	Battery undercooling protection	
131	Battery discharge overcurrent protection warning	
110	FOC power fault	
120	Motor phase line fault	
123	Motor signal line fault	
124	Motor overheat fault	
141	Open circuit fault of throttle	
142	Short circuit fault of throttle	
140	Throttle fault	
183	Power supply fault protection of fast charger	
161	Remote locking	
111	FOC verification failed	
191	Battery communication failure	
195	DCDC communication failure	
190	FOC communication failure	
139	Other battery faults	

Code	Code Meaning	Troubleshooting
159	Other battery faults	Please contact after-sales service
10	FOC blocked rotation	
11	FOC undervoltage/overvoltage	
12	FOC overcurrent	
13	FOC over temperature	
31	Battery charging overcurrent protection warning	
30	Battery overcharge protection warning	
80	Power supply temperature protection of fast charger	
81	Power supply overvoltage protection of fast charger	
82	Power supply overcurrent protection of fast charger	
65	Unwritten code	
60	SIM recognition failed	
67	ECU disconnection or arrears	
99	Communication bus failure	

Basic Parameters



Electrical Schematic Diagram



		XQi
Features	Motor Rated Power	3500 W
	Battery Capacity	72 V 32 Ah
	Max.Speed	30 mph
	Dimension	1995 x 820 x 1036 mm (78.55 x 32.3 x 40.8 in)
	Product weight	76 kg (167.5 lb)
	Maximun Load	100 kg (220.5 lb)
	Number of seating positions	1
	Range	43 mile
Battery System	Gradeability	75 %
	Voltage	72 V
	Standard Charging Current	6 A
	Maximun Discharging Current	80 A
Electrical System	Headlight/Turn/Indicator Taillight/Brake/Light Meter Panel	12 V LED
	Central Control Unit	9 V/2 A
	USB Charging	5 V/3.6 A
	Motor	Tailored Motor by JINTAN MICRO & SPECIAL
Power System	Motor Control Mode	FOC
	FOC Controller Max. Current	75 A
Frame	Front/Rear Damper	Hydraulic/Spring-air
	Front Tyre Specification	70/100-19
	Rear Tyre Specification	70/100-19

Frame	Brake System	Disc brake
	Minimum Ground Clearance	237 mm (9.3 in)
	Seat Height	885 mm (34.85 in)

For warranty information, please refer to warranty guidelines document.

Service and maintenance

Important information

The date for the implementation of maintenance that limit is observed, which is reached first. That means driven kilometer or duration from initial startup.

The warranty can be granted only when the vehicle serviced in accordance with this plan and was not exposed to extraordinary stress.

 **WARNING:** Only perform appropriate works which are intended for your vehicle.

Hydraulic lines should be replaced every 4 years.

From 8000 mi or the 2 years, the inspection should take place at least once a year or every 4000 mi. The vehicle is continuously checked for rust. The vehicle owner is responsible for rust prevention.

On the following pages you will find the maintenance schedule and the service record.