



WARNING

Routine maintenance is necessary for all mechanized products. A periodic inspection contributes to longer vehicle life span.

Only perform procedures as detailed in this guide. It is recommended that assistance of an authorized dealer be periodically obtained on other components or systems not covered in this guide. Unless otherwise specified, motor must not be running during all maintenance procedures.

Only trained people should repair or service vehicle. Anyone doing, even simple repairs, should follow correct procedures and obey warnings listed in this manual as those in *Shop Manual*.

Always wear safety glasses or eye protection.

Do not wear loose clothing and remove jewelry, such as rings, watches, chains, etc.

Always use insulated tools when working around batteries or electrical connections.

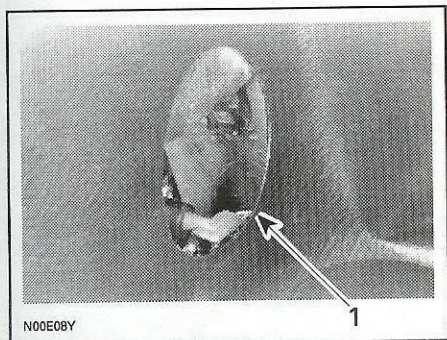
Turn function selector key to OFF and remove key.

Turn service switch to OFF (located in rear storage compartment). Remove key from switch.

Turning Service Switch OFF

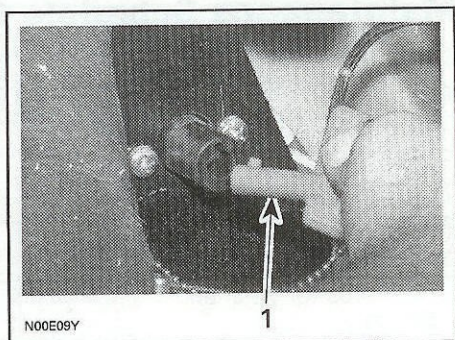
Open trunk lid, if equipped.

Remove access plug on left side of trunk.



1. Access plug removed

Turn OFF service switch by turning key and remove.



1. Turn service key OFF

Lock trunk lid to prevent unauthorized use.

The following maintenance charts give guidelines for regular vehicle service schedule to be performed by you and/or by an authorized dealer. Schedule should be adjusted according to operating conditions and use.

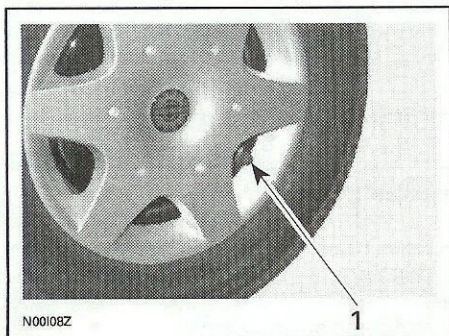
Maintenance Schedule for Owner and Dealer

DESCRIPTION	FREQUENCY				
	DAILY	WEEKLY	MONTHLY	QUARTERLY	BIANNUAL
Check steering and linkages	•				
Check brake operation	•				
Check lighting system	•				
Check to be sure all warning labels are in place	•				
Check tires for wear and damage	•				
Check back up alarm operation	•				
Check if handbrake lever latch and release properly	•				
Check charger plug/receptacle for damage and snug fit	•				
Charge batteries when more than three LCD bars are turned off on battery condition indicator or if vehicle is not to be used for several days.	•				
Wash vehicle		•			
Check opening of battery pack drain holes		•			
Check all items listed above		•			
Check brake pedal play			•		
Check tire pressure and adjust			•		
Check brake cables and hoses for damage			•		
Check brake fluid level and adjust			•		
Charge batteries when in storage			•		
Check all items listed above			•		
Lubricate as shown in lubrication section				•	
Check all items listed above				•	
Polish body with a gel coat finish compound and apply a protective wax					•
Check all items listed above					•

Maintenance Schedule for Dealer

DESCRIPTION	FREQUENCY	
	Quarterly	Annually
Lubricate king pins and drive shaft yokes	•	
Inspect vehicle for loose hardware and tighten as required	•	
Check battery condition	•	
Check wheel bearings		•
Inspect brake systems		•
Inspect steering system		•
Inspect propulsion system		•
Change differential oil SAE 30, 10 U.S. oz (300 mL)		•
Clean battery terminals and wash dirt off battery case(s)		•
Check all electrical wires and ground wires for tightness or damage		•
Check operation of back up alarm and other electrical equipment		•
Clean electric motor with pulse air		•
Check all owner and dealer items previously listed		•

Tire Pressure

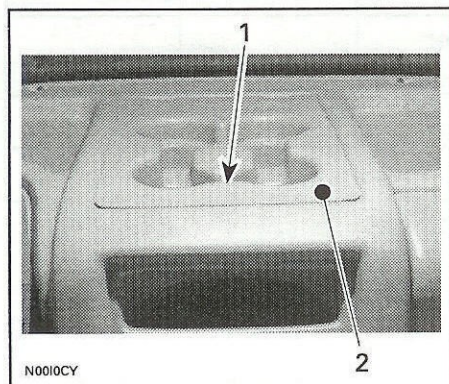


1. Tires pressure

TIRE TYPE	FRONT	REAR
Golf	20 PSI (138 kPa)	30 PSI (207 kPa)
Regular	30 PSI (207 kPa)	30 PSI (207 kPa)

Fuses

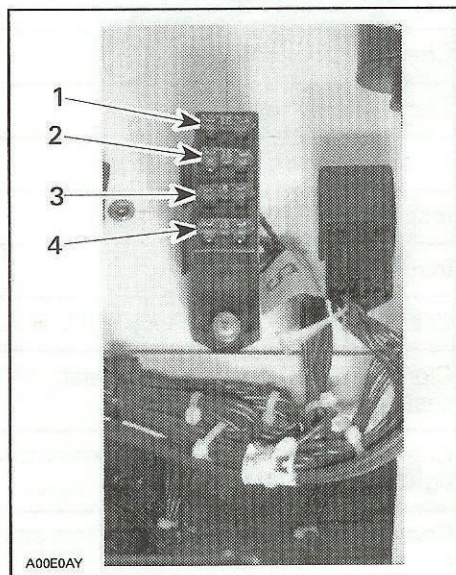
To access fuse block.



1. Remove screw
2. Remove cup holder

▼ CAUTION

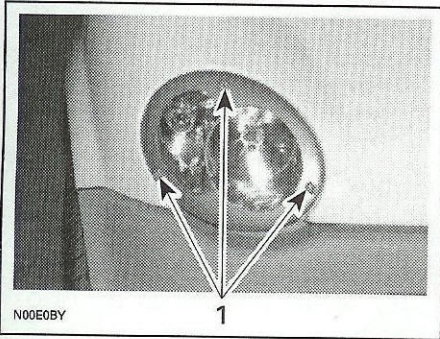
Do not use a higher rated fuse as this can cause severe damage. If a fuse is regularly burnt, refer to an authorized dealer.



1. 20 A - Turn signals and options
2. 15 A - Headlights, parking lights and horn
3. 15 A - Brake lights, reverse lights and buzzer
4. 10 A - Auxiliary battery

Bulb Replacement

Remove three retaining screws.



1. Remove screws

Remove headlamp.

Replace bulb.

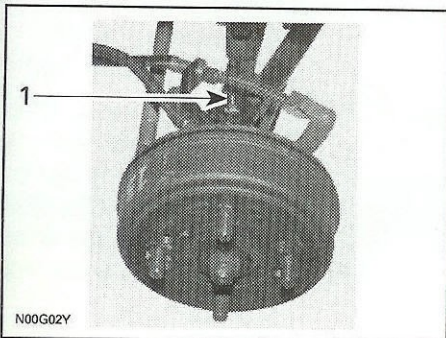
▼ CAUTION

Do not touch bulb with your fingers.

Reinstall headlamp and screws.

Lubrication

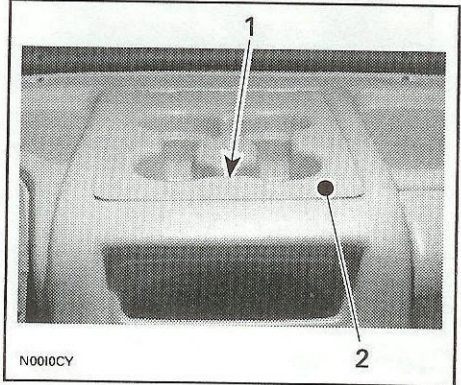
Lubricate king pins and drive shaft yokes with multi purpose synthetic grease.



1. King pins (each side)

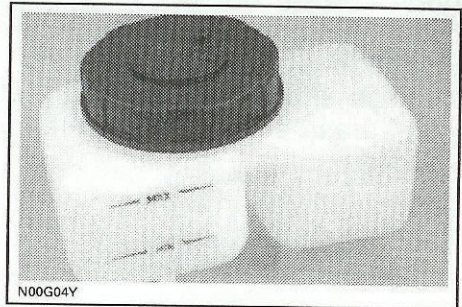
Brake Fluid

To access brake fluid container, remove screw and cup holder.



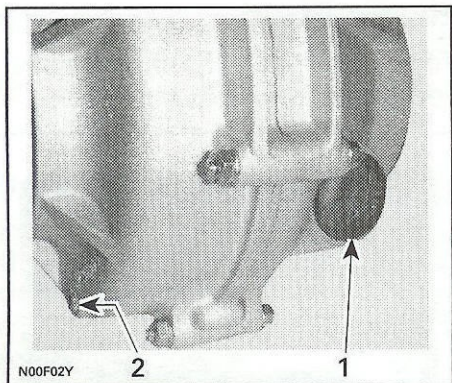
1. Remove screw
2. Remove cup holder

Check oil level, if low see your dealer for filling with DOT 3 brake fluid.



Differential Oil

When changing differential oil, always use 10 U.S. oz (300 mL) of SAE 30.



1. Filler and level plug
2. Drain plug

Cleaning

Use only mild detergent (marine type) with a sponge or soft cloth for normal cleaning of body and seats.

Minor scratches or blemishes in body can be buffed out using most commercially available gel coat finish polishing compounds and polishes. Apply a non-abrasive wax such as silicon wax.

▼ CAUTION

Never clean apparent fiberglass and plastic parts with strong detergent, degreasing agent, paint thinner, acetone, etc.

Do not wash vehicle while charging batteries.

Do not direct hose spray towards electric motor and/or any other electrical components.

For stubborn or imbedded dirt, a soft bristle brush may be used.

Battery acid, fertilizers, tars, asphalt, creosote, paint, or chewing gum should be removed immediately to prevent possible stains. Use commercial automotive or marine products recommended for gel coat finish.

STORAGE AND PRE-SEASON OPERATIONS

◆ WARNING

Turn function selector key OFF, remove key and pull up handbrake lever.

Do not charge batteries if frozen or if case(s) are bulged (batteries are slightly bulged by design), if so, discard battery. Frozen batteries can explode.

▼ CAUTION

Batteries in a low state of charge will freeze at low temperatures.

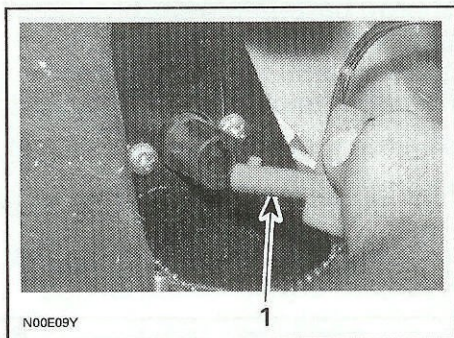
When washing vehicle, do not direct water stream on any electrical components.

If battery wire terminals are damaged or corroded, they should be replaced or cleaned as necessary. Failure to do so may cause them to overheat during operation.

Storage

Turn OFF function selector key.

Turn OFF service switch located in trunk and remove key.



1. Service switch

Fully charge batteries using on board charger.

Store vehicle in a cool dry place. This will reduce batteries self discharge.

Readjust tire pressure to:

TIRE TYPE	FRONT	REAR
Golf	20 PSI (138 kPa)	30 PSI (207 kPa)
Regular	30 PSI (207 kPa)	30 PSI (207 kPa)

Proceed with owner and dealer maintenance schedule.

Change differential oil using 10 U.S. oz (300 mL) of SAE 30.

Clean vehicle using soapy water and sponge.

Remove auxiliary battery fuse (10 A).

▼ CAUTION

Auxiliary battery will drain completely and be damaged if fuse is not remove.

Charge batteries monthly. Install auxiliary battery fuse (10 A) during charging.

Pre-Season Operations

Install auxiliary battery fuse (10 A).

Turn service switch to ON.

Fully charge batteries.

Readjust tire pressure to:

TIRE TYPE	FRONT	REAR
Golf	20 PSI (138 kPa)	30 PSI (207 kPa)
Regular	30 PSI (207 kPa)	30 PSI (207 kPa)

Perform Pre-season operation check list.

Pre-Season Operation Check List

DESCRIPTION	✓
Check battery condition	
Check brake systems	
Check steering system	
Check propulsion system	
Check operation of back up alarm	
Check operation of lighting system	
Check operation of other electrical equipment	

TROUBLESHOOTING

OBSERVATION	POSSIBLE CAUSE	SOLUTION
Vehicle is not moving	<ul style="list-style-type: none"> Function selector switch not in proper position (R,D,G) Handbrake lever is not released Battery charger still connected to 110 - 120 volts supply cord Service switch (located in trunk) is positioned to OFF 	<ul style="list-style-type: none"> Turn function selector key to desired position Release handbrake lever Disconnect 110 - 120 volts supply cord Turn service switch (located in trunk) to ON
No power on accessories	<ul style="list-style-type: none"> Auxiliary battery is discharged Blown fuse 	<ul style="list-style-type: none"> See your dealer Replace fuse and see your dealer
No sound from back-up alarm	<ul style="list-style-type: none"> Back-up alarm is faulty Blown fuse 	<ul style="list-style-type: none"> See your dealer Replace fuse and see your dealer
Lights do not turn on	<ul style="list-style-type: none"> Blown bulb Blown fuse 	<ul style="list-style-type: none"> Replace bulb Replace fuse and see your dealer
Batteries do not charge	<ul style="list-style-type: none"> No power at 110 - 120 volts supply cord Blown fuse Faulty battery charger Faulty battery 	<ul style="list-style-type: none"> Verify 110 - 120 volts supply cord Verify if there is power at source Replace fuse and see your dealer See your dealer See your dealer
Front brake, reduced efficiency	<ul style="list-style-type: none"> Reduced efficiency of handbrake Reduced efficiency of brake pedal 	<ul style="list-style-type: none"> See your dealer for cable verification, adjustment and repair See your dealer for brake oil level, hydraulic hoses, brake liner verification, and repair
Rear brake, reduced efficiency and no compression feeling	<ul style="list-style-type: none"> Electrical circuit is faulty 	<ul style="list-style-type: none"> See your dealer
Horn can not be heard	<ul style="list-style-type: none"> Horn is faulty Blown fuse 	<ul style="list-style-type: none"> See your dealer Replace fuse and see your dealer
All other abnormal observations		<ul style="list-style-type: none"> See your dealer

SPECIFICATIONS

ELECTRICAL			
Batteries	Propulsion batteries	6 x 12 Volts lead acid, maintenance free propulsion batteries. Nominal voltage 72 V	
	Auxiliary battery	1 x 12 Volts lead acid, maintenance free, auxiliary battery	
	Recharge time	8 hours	
Charger		Integrated 110V 15 A feed with 72V/12V auxiliary battery converter	
Motor		DC shunt technology — air cooled — 5 hp continuous (up to 20 hp peak)	
TRANSMISSION			
Type		Rear driven, without transmission	
		Forward and reverse motion by motor current inversion	
STEERING			
Type		Rack and pinion	
Outside turning radius		10 ft 6 in (3.2 m)	
SUSPENSION			
Type		Front and rear: Independent, single "A" type — Hydraulic shock absorber with helical spring	
BRAKES			
Front		Hydraulic, drum	
Rear		Regeneration	
TIRES			
Type		Regular: 145/80R12	Golf: 20,5 x 8 x 10
Pressure	Golf	Front: 20 PSI (138 kPa)	Rear: 30 PSI (207 kPa)
	Regular	Front: 30 PSI (207 kPa)	Rear: 30 PSI (207 kPa)
BODY			
Type		Glass reinforced plastic body	
Number of seats		2	
Length/Width		100 in (254 cm)/55 in (140 cm)	
Height		61.4 in (156 cm)	
Total weight in operation		1276 lb (579 kg)	
Load capacity		450 lb (205 kg)	
Ground clearance		5.75 in (14.6 cm)	
PERFORMANCES			
Acceleration 0-20 mph (32 km/h)		6 s	
Maximum speed		25 mph (40 km/h)	
Autonomy in urban cycle		30 miles (48 km)	
Maximum loaded gradeability		30%	