LANOS OWNER'S MANUAL (MY 2002)

FOR GENERAL AREA (LHD)

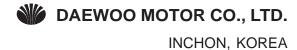
FOREWORD

This manual has been prepared to acquaint you with the operation and maintenance of your new DAEWOO and to provide important safety information. We urge you to read it carefully and follow the recommendations to help assure the most enjoyable, safe and trouble-free operation of your vehicle.

When it comes to service, remember that your DAEWOO dealer knows your vehicle best and is interested in your complete satisfaction.

We would like to take this opportunity to thank you for choosing a DAEWOO product and assure you of our continuing interest in your motoring pleasure and satisfaction.

This manual should be considered as a permanent part of your vehicle, and must remain with the vehicle at the time of resale.



IMPORTANT NOTICE

Please read this manual and follow the instructions carefully.

Signal words warning, caution and note have special meanings.



: This is the safety alert symbol. It is used to alert you to potential injury hazards or property damage. Obey all safety messages that follow this symbol.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

A CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.

NOTE

NOTE indicates information to assist maintenance and instructions.

All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication.

Daewoo reserves the right to change specifications or design at any time without notice and without incurring any obligation whatsoever.

This vehicle may not comply with the standards or regulations of other countries. Before attempting to register this vehicle in any other country, check all applicable regulations and make any necessary modifications.

This manual describes options and trim levels available at the time of printing, and therefore, some of the items covered may not apply to your vehicle. If any doubt exists about any of the options or trim levels, please do not hesitate to contact your Daewoo dealer for information on the latest specifications.

*: This asterisk in this manual signifies that an item of equipment is not included in all vehicles (model variants, engine options, models specific to one country, optional equipment, etc.)

We would like to point out that non-Daewoo Genuine parts and accessories have not been examined and approved by Daewoo, and in spite of continuous market product monitoring, we cannot certify the suitability nor the safety of such products whether they are installed or intended for fitment in our vehicles. Daewoo is not liable for any damage caused by the use of non-Daewoo Genuine parts and accessories.

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BEFORE DRIVING YOUR CAR

BREAK-IN PERIOD

There is no particular break-in rules for your new Daewoo. However, following a few simple precautions for the first few hundred kilometers can add to the good future performance, economy and long life of your car.

- Do not race the engine.
- Drive at varying speeds, trying not to "strain" the engine.
- Avoid hard stops, except in emergencies.
 This will allow the brakes to bed in properly.
- Avoid full-throttle starts.
- Allow the engine to warm up after starting.
- Refrain from towing a trailer/caravan or other vehicle.
- Avoid harsh operations such as abrupt fast start, sudden acceleration and prolonged high speed driving. These operations not only have a detrimental effect on the engine but also cause increased fuel and oil consumption, which could result in the malfunction of the engine components. Especially, avoid fullthrottle acceleration in low gear.

BEFORE ENTERING THE CAR

- Ensure that windows, outside rear view mirrors and lights are clean, undamaged and unobstructed.
- Visually note inflation condition of tires.
- · Check that all lights are working.
- Check the area behind the vehicle if you are about to reverse.
- · Check under the vehicle for leaks.
- Check the engine oil level and other fluid/ oil levels in engine compartment.

BEFORE DRIVING OFF

- Be sure you understand your car and its equipment and how to operate it safely.
- · Adjust your seating position.
- · Adjust inside and outside mirrors.
- Ensure that all occupants of the car have fastened their seat belts.
- Check the operation of the warning lights when key is turned to "ON" position.
- Check all gauges.
- Release the parking brake and ensure that the brake warning light goes out.

WARNING

Check all lights, signalling systems and warning indicators are in working order.

WARNING

Don't place objects on rear shelf.

- · Rearward vision may be restricted.
- Sudden braking or collision may cause objects to move and they could cause injury.

KEY

Two keys are provided which fit all key cylinders.

Keep one of the two keys as a spare.

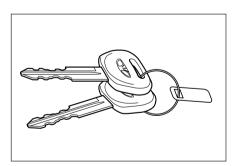
The key number is stamped on the key number plate. For vehicle security keep the key number plate in a safe place, not in the vehicle. You should also record the key number in a safe place, not in the vehicle.

This deters unauthorized persons from obtaining a duplicate key.

WARNING

Do not leave the key with the vehicle.

- · Lock the vehicle.
- Take the key with you.



KEY WITH INTEGRATED TRANSPONDER*

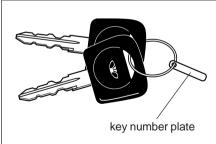
On vehicles equipped with a Daewoo Immobilizer System, two keys with an integrated transponder are provided, which operate all the locks on the vehicle.

Keep one of the two keys as a spare.

The key number is stamped on the key number plate. For vehicle security, keep the key number plate in a safe place, not in the vehicle. You should also record the key number in a safe place, not in the vehicle.

If a key is lost or stolen, the replacement can be purchased up to a maximum of 5 through your Daewoo Dealer. Remember to bring the remaining key with you when you go to Daewoo Dealer.

See page 2-5 under Immobilizer System for further details.



WARNING

Do not leave the key with the vehicle.

- Lock the vehicle.
- Take the key with you.

NOTE

In case of loss, replacement keys are available from Daewoo Dealers by quoting the key number.

To protect your car from theft, the electronic immobilization system has been installed in your Daewoo. Only keys with the correct electronic code can be used to start the car. Even if a key has the same profile it will not start the engine if the electronic code is incorrect. Always obtain replacement of additional keys from your Daewoo Dealer.

DOOR LOCKS

Front doors can be locked or unlocked from outside by using the key.

To lock, turn the key towards the rear of the vehicle.

To unlock, turn the key towards the front of the vehicle.

A CAUTION

Lock all doors and tailgate when leaving the vehicle unattended.

the inside by pushing or pulling the door lock button located in the inside door catch.

All doors, except the driver's can be locked from the outside by pushing the door lock button then closing the door.

The lock button on the driver's door cannot be pushed when the door is open, thus preventing the driver from being inadvertently locked out.

Upon leaving the vehicle, the driver's door can be locked only from the outside with the key.

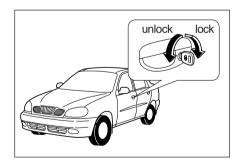
All doors can be locked or unlocked from To open the door from the outside, raise the door handle.

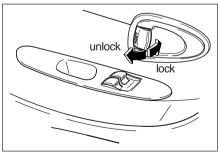
> To open the door from the inside, pull the door catch.

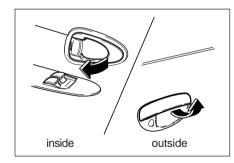
WARNING

Never leave children or animals unattended in the vehicle.

- He can move the vehicle unexpectedly.
- He can be suffocated in especially hot weather.







CENTRAL DOOR LOCKING SYSTEM*

The central door locking system is activated by the driver's door.

All doors and the tailgate* can be simultaneously locked or unlocked when the driver's door is locked or unlocked by using the key or the door lock button.

A CAUTION

Lock driver's door when leaving the vehicle unattended.

CHILD SECURITY DOOR LOCKS

Child security locking helps prevent rear doors from being accidentally opened by children in the car.

Child security door locks are provided with both rear doors.

When the metal latch beneath the lock on either of the rear doors is pushed upwards, the door cannot be opened from the inside. Moreover inside door catch will be fixed at locking position and could not be pulled.

Rear doors locked with the child security mechanism can still be opened from the outside if the door lock button is in the unlock position.

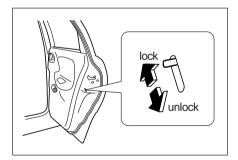
WARNING

Children in rear seats can open rear doors.

Move child security door lock latch to lock position.

A CAUTION

Do not pull inside door catch when using child security door locks. To do so can damage the inside door catch.



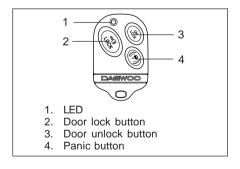


KEYLESS ENTRY SYSTEM WITH ANTI-THEFT FUNCTION*

The keyless entry system lets you lock and unlock your doors from up to 6 meters away using the transmitter.

The LED on the transmitter flashes to show that it is operational.

- LOCK button: Locks all the doors. The hazard lamps will flash once and the transmitter will also activate the anti-theft system.
- UNLOCK button: Unlocks all the doors.
 The hazard lamps will flash twice and the anti-theft system will be deactivated.



3. PANIC button: Sounds the alarm and flashes the hazard lamps for 30 seconds or until the PANIC button is pressed again.

NOTE

The operating range of the transmitter will vary due to environmental conditions.

Anti-Theft Activation

Press and release the door lock button on the transmitter. The LED on the transmitter will flash once. Then all the doors lock, the hazard warning lamps flash once, a "chirp" sound is heard and the anti-theft mode is activated.

If the ignition switch is in the ON position, the transmitter will not operate and the antitheft system cannot be armed. The door locks will operate normally, however.

NOTE

You must use the transmitter to activate the anti-theft mode.

Anti-theft Deactivation

Press and release the door unlock button on the transmitter. The LED on the transmitter will flash once. Then all the doors unlock, the hazard warning lamps flash twice and the anti-theft mode is deactivated.

When the UNLOCK button on the remote transmitter is pressed, the hazard warning lamps will flash to indicate information about the remote keyless entry and the anti-theft system as follows;

Normal Condition: If there has not been an intrusion, and no malfunciton has been detected, the hazard warning lamps will flash twice for 0.5 second, with a 0.5 second pause between flashes.

Malfunction Indication: if there is a malfunciton in the remote keyless entry and the anti-theft system, the hazard warning lamps will flash twice for 1 second, with a 0.5 second pause between flashes.

Alarm Indication: If there has been an intrusion since the last time the LOCK button was pressed, the hazard warning lamps will flash twice for 0.5 second, with a 1.5 second pause between flashes.

Alarm and malfunciton information in the system will be erased the next time the system is armed with the keyless entry transmitter.

When the ignition switch is ON position, the hazard warning lamps will not flash.

Anti-Theft Alarm Function

When the anti-theft mode is activated, the alarm will sound for 30 seconds and the hazard warning lamps will flash under the following conditions:

- 1. When the door is opened without using the transmitter or an ignition key.
- 2. When the passenger side door is opened with the ignition key without deactivating the anti-theft mode.
- When the engine hood and trunk are opened without deactivating the antitheft mode.
- When starting the engine with the ignition key without deactivating the antitheft mode.

To stop the alarm and the hazard warning flasher, press any button on the transmitter.

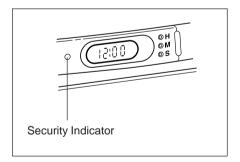
Auto Door Lock

If the door is not opened or the engine is not started within 30 seconds after unlocking the door with the transmitter, all the doors are automatically locked and the anti-theft mode is activated.

Security Indicator*

The security indicator will flash when the vehicle is under the anti-theft mode.

This indicator goes out when the anti-theft mode is released by pressing the unlock button on the transmitter or opening the door with a key.



Matching Transmitter(s) to Your Vehicle

Every transmitter is electronically coded to prevent another transmitter from unlocking your vehicle. If a transmitter is lost or stolen, a replacement can be purchased through your Daewoo dealer.

If you need a new transmitter, bring the remaining transmitter with you when you go to your Daewoo dealer. When the dealer matches the replacement transmitter to your vehicle, the remaining transmitter must also be matched.

Once the new transmitter is electronically coded, the lost transmitter will not unlock vour vehicle.

Up to 5 transmitters can be matched to your vehicle.

Battery Replacement

If the LED fails to illuminate, the transmitter can still be used for a while. However, it is an indication that new batteries are needed.

Use CR2025 (or equivalent) replacement batteries.

- 1. Insert a screwdriver (or similar object) in the slot between the covers and twist to separate the two halves.
- 2. Lift off the front cover, bottom half first.

3. Remove both batteries. Avoid touching the circuit board or other components.



A CAUTION

Avoid touching the flat surfaces of the battery.

Handling will shorted battery life.

- 4. Install the new batteries. Be sure that the positive (+) side faces down towards the base.
- 5. Reassemble the two covers of the trans-
- 6. Check the transmitter operation. If you disassembled the transmitter cover over 5 minutes, do following procedure.
- 7. Open the driver's door with the ignition key.
- 8. Key on and off within 5 seconds.
- 9. Press the one of two buttons on the transmitter three times in the 20 seconds.
- 10. Check the transmitter operation.
- 11. If fails, repeat step 7 to step 10, again.



MARNING

Used lithium batteries can harm the environment. Follow local recycling laws when disposing any used batteries. Do not place them with household refuse.

NOTE

In order to keep the transmitter working properly, follow these guidelines:

- Avoid dropping the transmitter.
- · Do not place heavy objects on the transmitter.
- Keep the transmitter away from water and direct sunlight. If the transmitter gets wet, wipe it with a soft cloth.

NOTE

In following case the transmitter fails to operate keyless entry system. Then do step 7 to step 11.

- · When you disassembled the transmitter cover over 5 minutes.
- · When the button is pressed more than 100 times unexpectedly, out of operating range.

DOOR WINDOWS

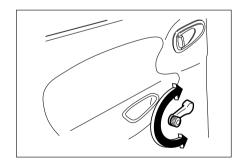
To raise or lower the door window, rotate the window regulator handle in the door panel. Items can get trapped in windows. Ensure window opening clear before closing windows.

WARNING

Parts of body outside vehicle can be struck by passing objects. Keep all parts of body inside vehicle.

A CAUTION

Unattended vehicle with open windows can assist car crime. Close all windows when leaving vehicle.



POWER WINDOW SWITCHES*

The power windows can be operated by the power window switches on each door trim pad when the ignition switch is placed in position "ON".

To lower the window, keep the top part of the switch pressed.

To raise the window, keep the top part of the switch lifted up.

When the window reaches the desired position, release it.

WARNING

Parts of body can be trapped in power window and struck by passing objects.

- Keep a close watch on the windows when closing them.
- Do not stick hands, head or anything else out of the opening.

WARNING

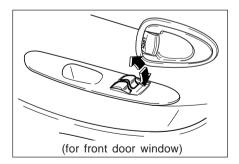
Always remove the ignition key when leaving the car to avert the risk of injury arising from unattended children operating the windows.

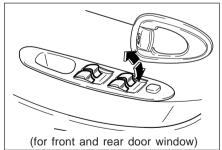
REAR DOOR WINDOW LOCK SWITCH*

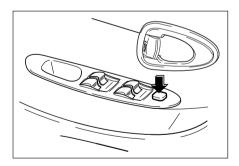
Use this switch to isolate the rear door window switches.

When this switch is pressed, rear door window switches can not be used to operate the rear windows. Rear windows can be operated only by main power window switch on the driver's door trim.

To unlock, press the switch again.







WARNING

Accidental closing of power window can result in serious injury.

- When carrying children on the rear seat, press the rear door window lock switch to make the rear door switches inoperative.
- Do not allow children to play with power window switch and rear door window switches.

REAR DOOR WINDOW SWITCH*

Rear door window switches are located on each rear door to operate the corresponding rear door window.

Push the switch down to lower the window and push it up to raise the window.

Release the switch when the window reaches the desired position.

When the rear door window lock switch is pressed, these switches can not be used to operate the rear door window.

NOTE

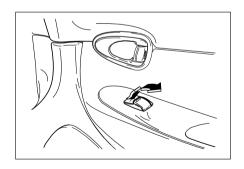
The rear door window does not open fully.

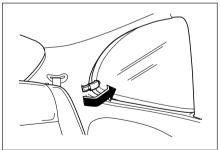
REAR HINGED WINDOWS*

(3 door hatchback only)

To open, pull catch and push window glass outwards to the open position.

When closing, fold catch back to lock.





TILTABLE STEERING WHEEL*

The steering wheel can be adjusted to five different positions. To adjust the steering wheel, pull the control lever on the left side of the steering column towards the steering wheel, move the steering wheel to the desired position, and then release the lever.



Control of vehicle can be lost. Do not adjust steering wheel position while vehicle is moving.

NOTE

The uppermost position (first position from top) is only to facilitate entering and leaving the vehicle, not a driving position.

POWER SUN ROOF*

The power sun roof can be operated by the switch located on the right of the room lamp, between the sun visors, with the ignition "ON".

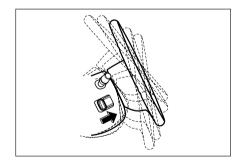
Before operating the sun roof, open the cover.

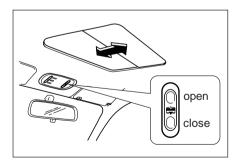
Sliding the Sun Roof

To open, press the rear part of the switch and hold it.

To close, press the front part of the switch and hold it.

When the sun roof reaches the desired position, release it.





Tilting the Sun Roof

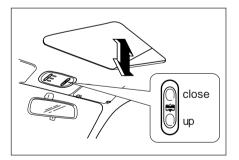
To tilt up, press the front part of the switch and hold it.

To close, press the rear part of the switch and hold it.

When the sun roof reaches the desired position, release it.

WARNING

Parts of body outside vehicle can be struck by passing objects. Do not stick hands, head or anything else out of the sun roof opening.



WARNING

Care must be taken when operating the power sun roof. There is a risk of injury, particularly for children, and a danger that body or article could become trapped in sun roof. Ensure sun roof opening clear before closing it.

A CAUTION

Debris on sun roof can damage operation.

- · Clean sun roof before opening.
- · Remove water drops, snow, ice or sand from on top of the sun roof before opening.
- Do not place heavy objects on sun roof or surrounding area.

A CAUTION

When leaving the vehicle unattended, close sun roof fully.

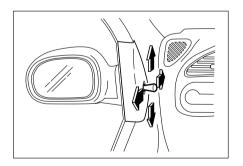
OUTSIDE REARVIEW MIRROR

Adjust the outside rearview mirrors with the adjusting levers so that you can see not only each side of the road behind you but also each side of your vehicle. This helps you determine the location of objects seen in the mirror.

Simply move the adjusting lever in the desired direction to adjust the mirror angles.

The outside mirror on the passenger's side is convex if it says "OBJECTS IN MIRROR ARE CLOSER THAN THEY APPEAR".

Use this mirror to get a wider view of the road behind.



The outside rearview mirrors can be folded flat against the side of the vehicle by pushing it forward or backward when driving in narrow road or washing the vehicle, etc.

A CAUTION

Side convex mirrors make objects appear smaller and farther away than when viewed in a flat mirror.

- Use inside minor to determine the size and distance of objects seen in the side mirror.
- Maintain rearward vision from driver's seating position.

A CAUTION

Adjust mirror angles before driving.

A CAUTION

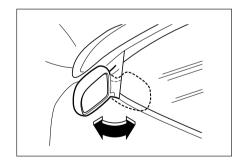
Glass surface may be damaged. Do not scrape ice from mirror face.

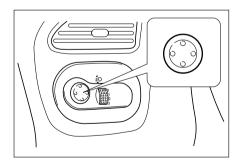
CAUTION

Do not force mirror to adjust it if ice should restrict movement of mirror. Use deicer, spray or blower to remove ice.

OUTSIDE REARVIEW MIRROR ADJUSTING SWITCH*

The outside rearview mirror on the passenger's side can be adjusted electrically with the adjusting switch located below the left side ventilation vent.





INSIDE REARVIEW MIRROR

The inside mirror can be adjusted up, down or sideways to obtain the best view. The inside mirror has day and night positions. Make adjustment while the adjusting lever is in the daytime position.

Move the adjusting lever to the night position to reduce glare from the headlights of vehicles behind you.



CAUTION

Maintain rearward vision from driver's seating position.

- · Select day position and adjust to obtain best view.
- Select night position to reduce night glare.
- · Selecting night position may reduce rearward clarity.

NOTE

Remember that you lose some rearview clarity in the night position.

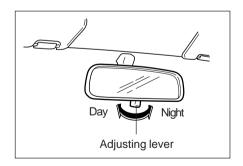
FRONT SEAT SLIDE ADJUSTMENT

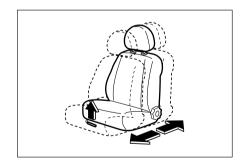
To move the seat forwards or backwards, pull up the control lever located inboard and under the front of the seat and hold it. Then, slide the seat to the desired position and release the lever.



WARNING

Control of vehicle can be lost. Do not adjust driver's seat while vehicle is moving.





WARNING

Excessive seat belt slack could reduce effectiveness of seat belts.

Adjust front seat before fastening seat belt.

WARNING

Loose objects can interfere with seatslide mechanism.

Do not place objects under seat.

FRONT SEAT RECLINING ADJUSTMENT

To adjust the seat back, turn the handwheel or lift the lever (if so equipped) on the outboard side of the seat back until the desired angle is achieved.

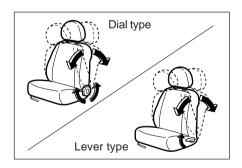
WARNING

Control of vehicle can be lost. Do not adjust seat back when vehicle is moving.

WARNING

Occupants can slide under seat belts.

- Do not recline seat back too much.
- To get maximum protection adjust seat back upright as you can.



DRIVER'S SEAT HEIGHT ADJUSTMENT*

To adjust the driver's seat cushion angle, turn the handwheel on the outside of the seat cushion.

Turn the front handwheel to adjust the height of the front portion of the seat cushion and turn the rear handwheel to adjust the height of the rear portion.

EASY ENTRY FRONT SEATS*

(3 door hatchback only)

To facilitate entering and leaving the rear seat area, tilt the front seatback forward by pulling up the release lever on the outboard side of the seat back.

To return the seat back to the original position, lift up the seat back and push it firmly into position.

MARNING

When returning the seat back, make sure it is securely latched in place by pushing rearward on top of seat back.

HEAD RESTRAINTS

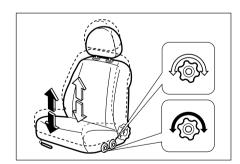
Head restraints are designed to help reduce the risk of neck injuries.

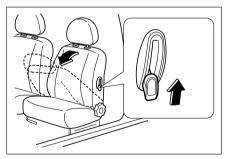
To adjust the front seat head restraint, pull it up or push it down while pushing the release button.

WARNING

Head restraint helps protect against injury.

- Do not drive without head restraints in place.
- Adjust centre of head restraints to rear head contact area.
- After adjustment lock head restraints in position.





To remove the head restraint,

- 1. Pull it up to the stop position.
- 2. While pushing the release button, lift the head restraints from the guide sleeve.

WARNING

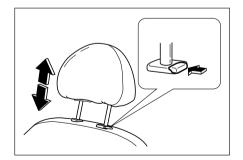
Make sure the head restraints are in place and adjusted before driving.

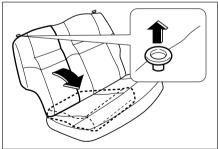
FOLDING REAR SEAT BACK*

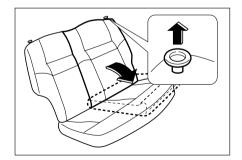
The rear seat backs can be folded down separately to increase the luggage space. Pull up the locking knob on the top of each split seat back to unlock the seat back, then fold the seat back forward and down. To return the seat back to the upright position, lift it up and push it firmly into place.

WARNING

- Never pile luggage and other cargo higher than the front seat backs. In the event of sudden braking or collision, they could be thrown forward and cause injury.
- Do not allow passengers to sit on the folded-down seat backs while the vehicle is in motion.







A CAUTION

When returning rear seat back to the upright position,

- Make sure the seat back is securely latched into place by pushing or pulling on the top of seat back.
- Make sure the seat belts are not twisted or caught in seat back and arrange in their proper position.

SEAT BELT PRECAUTIONS

To protect you and your passengers in the event of an accident, it is compulsory that the seat belts are worn by all occupants while the vehicle is in use. Seat belts should be worn correctly.

Each seat belt is designed to be used by only one person at a time: they are not suitable for use by children below 6 years of age. Suitable child seats/booster cushions should be fitted.

WARNING

Occupants could be injured seriously in collisions or sudden maneuvers.

- Wear seat belts at all times when driving or riding.
- Never use a belt for more than one person at a time.
- Do not wear seat belt over hard or breakable objects in pockets or on clothing.

A CAUTION

Improper use of seat belt can cause more serious injury.

- Do not modify the seat belt.
- Do not add adjusting device which restrict removing slack.

CAUTION

Damaged seat belt can cause more serious injury.

- Repair or replace damaged seat belt immediately.
- Never let the seat belt system become damaged by a door or seat.

When Using the Seat Belts

To help reduce the risk of personal injury in collisions or sudden maneuvers, use the seat belts following these instructions on their proper use, maintenance, and use with child restraint systems.



WARNING

Improperly worn seat belt could cause serious injury or death.

- · Adjust seat belt as firmly as possible.
- Place the seat back upright position as you can.
- · Do not recline the seat back when vehicle is movina.
- · Never wear the seat belt with a straps twisted.
- Never wear the shoulder belt under your arm.
- Shoulder belt should be positioned midway over the shoulder (never across neck).
- Lap belt should be fitted snugly around the hips, not the waist.



WARNING

High-positioned lap belts and loosefitting shoulder belts both could increase the change of injury or death due to sliding under the lap belt during an accident.

CAUTION

Improper use of seat belt cause more serious iniurv.

- · Buckle release button should be face outward.
- · Insert seat belt buckle into proper buckle catch.
- · Do not put anything into the opening where seat belt passes through the trim panel.

NOTE

If the belt locks when being pulled out, rewind it completely in the retractor, then pull it out to the desired length.

Care of Seat Belts

Always keep the seat belts clean and dry. Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water.

Do not bleach or dye belts since this may severely weaken them. Make sure that the belt is not damaged or trapped by sharp edged objects.

Periodically inspect all parts of the belts and have damaged parts replaced. A belt which has been overstretched in an accident must be replaced by a new one.

Daewoo recommends replacing all component parts of the seat belts in use during a collision. No replacement is required after a minor collision if a Daewoo Dealer or Daewoo Authorized Service Operation finds that no damage has occurred and judges everything to be in proper working order.

Seat belts and components that were not in use during the collusion must also be inspected and replaced if they show signs of damage or faulty operation.

CAUTION

Damaged seat belt can cause more serious injury.

- · Inspect seat belt assemblies periodically.
- · Inspect seat belts and other constituent parts after every collision.
- · Replace seat belts if webbing become frayed, contaminated or damaged in any way.
- · Replace the entire seat belt assembly after severe impact even if the damage is not obvious.

A CAUTION

Improper seat belt could cause more serious injuries.

Do not modify seat belt.

CHILD RESTRAINT

When transporting infants or small children, an appropriate child restraint system should always be used.

The child restraint system should be appropriate for your child's weight and height and properly fit the car's seat.

Accident statistics indicate that children are safer when properly restrained in the rear seat rather than in the front seat.

WARNING

- · Infants and small children should always be restrained in a infant or child restraint.
- NEVER INSTALL A REAR-FACING CHILD RESTRAINT IN FRONT SEAT WITH FRONT PASSENGER AIR BAG.

A child in a rear-facing child restraint installed in the front seat can be seriously injured if the front passenger air bag inflates. Secure a rear-facing child restraint in the rear seat.

A front-facing child restraint should be secured in the rear seat whenever possible. If installed in the front passenger seat, adjust the seat as far back as it will go.

WARNING

- When installing a child restraint system, follow the instructions provided by the manufacturer.
- When not in use, keep your child restraint system secured with a seat belt or remove it from the vehicle.
- Do not hold a child in a person's arm while riding in a vehicle.
- Never let a child to stand or kneel on any seat.
- Do not allow a child in the cargo areas while the vehicle is moving.
- Children who have outgrown child restraint systems should sit in the rear seat and be restrained with the seat belt.

If child's seating position has a shoulder belt which is on or very close to the face or neck, move the child close to the center of the vehicle, slightly inboard of the shoulder belt, or move the child to a position without a shoulder belt if possible.

PREGNANT WOMEN

It is recommended that pregnant women use seat belts. Contact your doctor for specific recommendations.



WARNING

Pregnant women and unborn child could be injured.

- Use a lap-shoulder seat belt if possible (Consult your doctor).
- Lap belt should be worn as low as possible throughout the pregnancy.

THREE POINT SEAT BELT

Each Daewoo vehicle is equipped with three point seat belts with automatic retractors, allowing freedom of body movement when driving at even, constant speeds, although the spring-tensional belts are always a snug fit.

The belt has a "vehicle sensitive retractor" which is designed to lock during heavy acceleration or deceleration.

Do not attempt to test the locking device by intentionally "shooting" your upper torso in the forward direction.

This type of belt requires no length adjustment. Once worn, the belt adjusts itself to the movement of wearer, but in the event of a sudden or strong shock, the belt automatically locks to restrain the wearer's body.

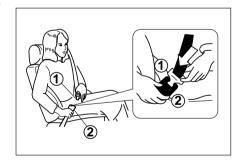
Using the Belt

Pull the belt evenly out of the retractor and guide it across the body, making certain that it is not twisted.

Insert the metal latch plate "1" into the buckle "2".

NOTE

If the belt locks when being pulled out, rewind it completely in the retractor, then pull it out to the desired length.



To remove the belt, depress the red pushbutton on the buckle. The belt will retract automatically.

WARNING

Improper use of seat belt could cause injuries.

- Do not wear the shoulder portion of seat belt under the arm.
- Shoulder belt should be positioned midway over the shoulder-never across the neck.
- Lap belt should be fitted snugly around the hips, not the waist.

LAP BELT

A lap belt is installed in the center of the rear seat.

Insert the metal latch plate into the buckle until it locks.

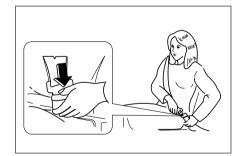
To lengthen, hold the metal latch plate at right angles to the belt and pull on the belt.

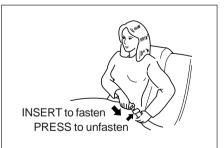
To shorten, pull the free end of the belt away from the metal latch plate, then pull the belt clip to take up the slack.

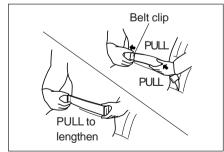
Position the lap belt low on the hips.
To remove the belt, depress the red button on the buckle.

The buckle and metal latch plate of the center rear lap belt are identified by the "CENTER" mark. Be sure to check the marking before wearing the center rear lap belt.

The metal latch plate of center rear lap belt can be fastened only into the buckle of center rear lap belt buckle.







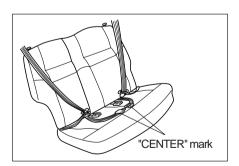
WARNING

Improper use of seat belt could injure seriously.

- Never wear the lap belt across your abdomen.
- Lap belt should be fitted snugly around the hips, not the waist.

A CAUTION

Damaged or incorrectly fastened seat belt could cause serious injury. Do not fasten the metal latch into incorrect buckle by force.



NOTE

When fastening the rear seat shoulder belt or the center rear lap belt, make sure the metal latch plate is inserted into the correct buckle to obtain maximum protection from the seat belt.

SEAT BELT PRETENSIONER*

On some models, the seat belts for the front seats are equipped with an automatic belt pretensioner.

The restraint system with belt pretensioner reduces the risk of injury in the event of head on collision.

These seat belt pretensioners are always activated in a severe head on collision so that the driver and front passenger are pressed firmly back into their seats.

The belt pretensioner is not triggered in the event of a minor frontal, rear, side collision, or rollover.

A CAUTION

Damaged seat belt can cause more serious injury.

- Inspect seat belts, pretensioners and other constituent parts after collision.
- Replace pretensioners and seat belts if the pretensioners have been activated.

SEAT BELT HEIGHT ADJUSTOR*

On seat belts with a height-adjustable upper anchorage point, pull belt out, depress the center of the adjuster (with pretensioner) or the area indicated by arrow (without pretensioner) and adjust the height.

This is particularly important if a smaller person has previously selected a lower position. Too high a position can impair comfort.



WARNING

Improperly worn seat belt could cause severe injury.

- Adjust seat belt height before driving.
- Make sure the anchorage is locked in position.
- Shoulder belt should be pass midway of shoulder.



CAUTION

Control of vehicle can be lost. Do not adjust the height of the driver's seat belt while driving.

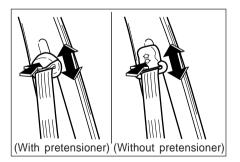
AIR BAG*

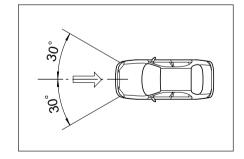
The air bag Supplemental Restraint System (SRS) can provide additional protection for the driver and front passenger (if equipped) against head and chest injuries in the event of a collision.

The air bag system activates during a severe collision which is either frontal or when the impact angle is up to 30° from straight ahead.

When the air bag inflates, an operating noise may be heard and a small amount of smoke like gas will be released. The gas is harmless and does not indicate that there is a fire.

Injuries, including fatal injuries, can occur in a severe collision, even if seat belts are worn properly and the air bags inflate.





No safety system can provide complete protection in a severe crash.

Just from viewing the vehicle damage after a crash, it is very difficult to accurately determine if the air bags should or should not have inflated. In some cases where the air bag did not inflate, extensive visible damage indicated that the car absorbed much of the crash energy, and the air bags were not needed. In other cases, a severe jolt, such as an impact to the under carriage, may not cause extensive body damage but cause the air bags to inflate.

WARNING

Occupant could be injured. Wear seat belt at all times even your Daewoo equipped with air bag. Air bag system serves as supplement to the seat belt.

WARNING

Alternation on component could injure someone.

Do not modify original components.

A CAUTION

Treatment by unauthorized persons could be dangerous and cause injuries.

- · Air bag system must only be disposed by Daewoo Dealer.
- · Air bag system must be replaced by Daewoo Dealer only.

CAUTION

Protection of occupants could be limited.

- · Do not stick anything on steering wheel and instrument panel.
- · Do not cover steering wheel and instrument panel with other materials.

CAUTION

Air bag system will not be triggered.

- · Rear impacts
- Side impacts
- Rollovers
- Minor frontal collisions.

Driver's Air Bag

The driver's air bag is stored in the center pad of the steering wheel.

The air bag inflates within milliseconds during a crash and forms a safety cushion for the driver.

After air bag completely inflates, it immediately deflates so that it does not interfere with the driver's visibility or ability to steer and operate other controls.

The air bag inflates with considerable force and speed. It is therefore important that the driver's seat and seat back should be correctly adjusted, for the air bag to be fully effective. The driver's seat should be adjusted so that the steering wheel can be reached with the arms slightly angled.



A CAUTION

Treatment by unauthorized persons could cause injury.

Repairs to steering wheel, steering column and air bag should be done by only Daewoo Dealer.

Front Passenger's Air Bag*

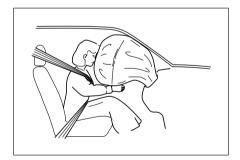
On some models, an air bag is fitted on the front passenger's side.

The front passenger's air bag is stored above the glove box.

The system is of the same type as fitted for the driver.

This air bag is quite large and inflates with considerable force. It can seriously hurt a front seat passenger who is not in the proper position and not wearing the seat belt properly.

Front seat passenger should move the seat as far back as practical and sit well back in the seat.



WARNING

Children could be injured seriously by air bag in collision.

 NEVER INSTALL A REAR-FACING CHILD RESTRAINT IN THE FRONT SEAT.

A rear-facing child restraint could be struck by the inflating front passenger air bag. Always secure a rear-facing child restraint in the rear seat.

 A front-facing child restraint should be secured in the rear seat whenever possible.

If installed in the front seat, adjust the seat as far back as it will go.

 Children who have outgrown child restraint systems should sit in rear seat and be restrained with seat belt.

A CAUTION

Treatment by unauthorized persons could cause injury.

Repairs to instrument panel should be done by only Daewoo Dealer.

After the Air Bag Deploys

After the air bag deflates, you may notice a burning smell, smoke, and white powder in the interior of the vehicle. This is normal. The burning smell is from the propellant that was ignited to inflate the air bag. The white powder is cornstarch or talcum or sodium compounds which lubricate the air bag to reduce friction on the air bag during storage and inflation. Although they may cause some skin or eye irritation, these substances are not toxic.

SRS Servicing

Your Supplemental Restraint System (SRS) is virtually maintenance free. However, if one of the following occurs, have your SRS serviced immediately by an authorized Daewoo dealer.

- · Your air bag have deployed.
- Air bag warning lamp indicates malfunction.

See "AIR BAG WARNING LAMP" in the index.

TRUNK LID

closed and latched.

To open the trunk lid, insert the key into the key slot in the trunk lid and turn it clockwise. To close the trunk lid, push it down.

After closing, make sure that it is securely

WARNING

Exhaust gases are poisonous.

Do not drive with the trunk lid open to avoid exhaust gas in passenger compartment.

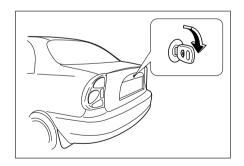
Trunk lid release lever

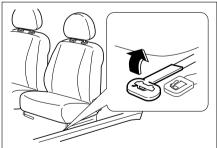
The trunk lid can be opened by pulling up the trunk lid release lever located under the left-side of the driver's seat.

WARNING

An open trunk lid while vehicle is in motion could obscure rearward vision, resulting in an accident.

- Do not operate trunk lid release lever while vehicle is in motion.
- Do not travel with the trunk lid open.





FUEL FILLER DOOR RELEASE LEVER

The fuel filler is located in the rear quarter panel on the right-hand side of the vehicle. The fuel filler door release lever is located under the left-side of driver's seat.

FILLING FUEL TANK

- 1. Stop the engine.
- 2. Open the fuel filler door by pulling up the fuel filler door release lever.

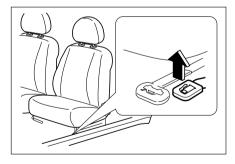
- 3. Open the fuel filler cap by turning it counterclockwise.
- 4. After refueling, tighten the fuel filler cap by turning it clockwise and push the fuel filler door properly until it latches.

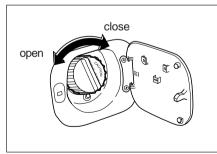
WARNING

Gasoline vapour is highly flammable. It burns violently, and that can cause very bad injuries.

When refueling,

- Switch off engine.
- No smoking.
- · No naked flame.
- No sparking material.





WARNING

Fuel may be under pressure.

- Unscrew fuel filler cap slowly.
- Wait for "hiss" noise to stop.
- · Unscrew cap completely.

A CAUTION

Engine and exhaust system will be damaged.

Do not use leaded gasoline to the vehicle for unleaded gasoline.

A CAUTION

Gasoline damages paintwork. If spillage onto paintwork wash with cold water immediately.

NOTE

Fuel filler door may not open in cold weather.

Push or tap fuel filler door lightly to open.

TAILGATE* (HATCHBACK ONLY)

The tailgate can be locked or unlocked with the key.

To lock, insert the key into the key slot and turn it clockwise.

To unlock, turn it counterclockwise.

To open the tailgate, lift it up with the pushbutton pressed when it is unlocked.

If the tailgate is locked, the push-button cannot be pressed.

To close the tailgate, lower and press down on it.

Make sure it is securely closed and latched.

WARNING

Exhaust gases are poisonous. Do not drive with the tailgate open to avoid exhaust gas in passenger compartment.

WARNING

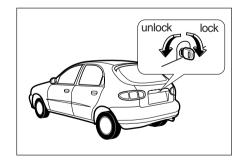
An open tailgate while vehicle is in motion could obscure rearward vision, resulting in an accident.

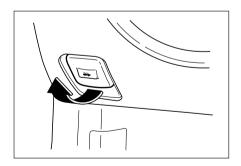
Do not travel with the tailgate open.

ENGINE HOOD

 To open the engine hood, pull the release handle located on left lower side of instrument panel to unlatch the engine hood.

The engine hood will then be unlocked and will partially open.

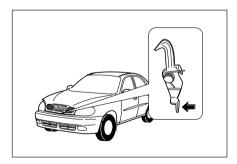


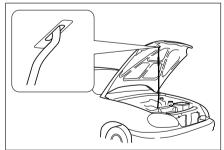


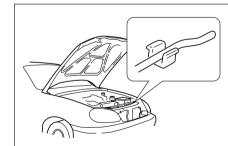
- 2. Push the bottom of the hook to the left and lift the engine hood.

 3. To hold the engine hood in the open position, insert the support rod into the slot
 - To hold the engine hood in the open position, insert the support rod into the slot provided in the underside of the engine hood.
- 4. Before closing the engine hood, press the support rod firmly into its clip to prevent it from rattling.
- 5. To close, lower the engine hood and allow it to drop from the height of about 30 cm.

Make sure that the engine hood is locked in position by pulling at its front edge.







WARNING

An open engine hood while vehicle is in motion obscures forward vision, resulting in an accident.

- Check that engine hood is fully latched in position by pulling at it's front edge before driving.
- Do not operate engine hood release handle while vehicle is in motion.
- Do not move vehicle with engine hood in raised position.

WARNING

The vehicle can still move from stationary while the engine hood is open.

Before releasing the engine hood latch;

- Remove ignition key.
- For manual transmission place gearshift in 1st or reverse.
- For automatic transmission place gearshift in P(Park).
- Set parking brake fully.

WARNING

If it is necessary to check beneath the engine hood with engine running;

- For manual transmission place gearshift in neutral.
- For automatic transmission place gearshift in P(park).
- Set parking brake fully.
- Do not wear any clothing such as ties and handkerchiefs.
- Do not wear loose clothing.
- Keep hands and hair away from moving parts.

STARTING AND OPERATING

FUEL RECOMMENDATIONS

Commercially available high-quality fuels are suitable. Fuel quality has a decisive influence on the power output, driveability and life of the engine. The additives contained in the fuel play an important role in this connection. You should therefore use only highquality fuels containing additives.

Fuel with too low an octane number can cause pre-ignition (detonation). Daewoo can not be held liable for resultant damage.

Fuel with a higher octane number may be used.



A CAUTION

Engine and exhaust system will be damaged.

Do not use leaded fuel to the vehicle for unleaded fuel.

It is not covered by warranty.

NOTE

To avoid accidental filling of leaded fuel, the larger nozzles for leaded fuel fillers cannot be inserted into the fuel filler for unleaded fuel.

Do not Use Methanol

Fuels containing methanol (wood alcohol) should not be used in your Daewoo. This type of fuel can reduce vehicle performance and damage components of the fuel system.

NOTE

The warranty policy will not cover damage of the fuel system and any performance problems that are caused by the use of methanol or fuel containing methanol.

Operation in Foreign Countries

If you are going to drive your Daewoo in another country, be sure to:

- · Observe all regulations regarding registration and insurance.
- Check that a suitable fuel is available.

Vehicle Fuelling from Drums or Storage **Containers**

For safety reasons (particularly when using noncommercial fuelling systems) fuel containers pumps and hoses must be properly earthed.

Static electricity build up can occur under certain atmospheric and fuel flow conditions if unearthed hoses, particularly plastic, are fitted to the fuel dispensing pump.

It is therefore recommended that earthed pumps with integrally earthed hoses be used, and that storage containers be properly earthed during all non-commercial fuelling operations.

IGNITION SWITCH

The ignition switch on the right side of the steering column has the following four positions, LOCK, ACC, ON, and START.

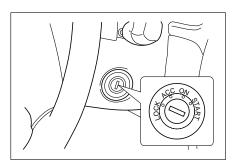
LOCK

The steering is locked by removing the key. Rotate the steering wheel until lock is engaged.

For easier key operation when unlocking, move the steering gently from right to left and turn the key to the "ACC" position.

NOTE

To turn the key from "ACC" to "LOCK" position, you must push it in.



ACC

The engine can be turned off without locking the steering wheel.

But some electrical accessories such as radio and cigarette lighter can be operated in this position.

A CAUTION

Battery can discharge. Do not leave key at "ACC" position for long.

ON

This position turns on the ignition system and the electrical accessories.

A CAUTION

Battery will discharge.
Do not leave key at "ON" position without running engine for long.

START

This position activates the starter motor, starting the engine.

Release the key when the engine starts, and it will be returned to the "ON" position automatically.

WARNING

Never remove or turn key off while driving.

- This can cause the driver to lose control of vehicle.
- This can result in serious vehicle damage or personal injury.

WARNING

Steering wheel can suddenly turn. Never reach for ignition switch key through the steering wheel.

BEFORE STARTING THE ENGINE

- Make sure the area around the vehicle 1. Apply the parking brake. is clear.
- · The maintenance items in this manual should be checked periodically, e.g., each time you check the engine oil.
- Check that all the windows and lights are
- · Visually inspect the tires for their appearance and condition. Also check the tire pressures for proper inflation.
- Position seat and adjust head restraints.
- · Adjust inside and outside mirrors.
- · Fasten your seat belts and ask all passengers to do likewise.
- · Check the operation of the warning lights when the key is turned to the "ON" position.

STARTING THE ENGINE

- 2. Manual transmission: Move the gearshift lever to Neutral position and depress the clutch pedal to the floor while cranking the engine.

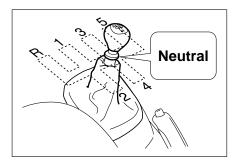
Automatic transmission*: Move the selector lever to "P"(Park) or "N"(Neutral), although "P" is preferred. The starter is designed not to operate if the selector lever is in one of the driving positions.

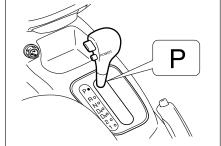
3. Crank the engine without touching the accelerator pedal by turning the ignition key to the "START" position. Release the key when the engine starts. If the engine starts, but fails to run, repeat the above procedure.

A CAUTION

To help prevent start motor damage;

- Do not operate starter for more than 15 seconds at a time.
- If engine does not start, wait 10 seconds before trying again.





4. Warm-up

Allow the engine to idle for at least 30 seconds after starting. Drive at moderate speed for a short distance first, especially in cold weather.



A CAUTION

Excessive temperature can damage exhaust system.

Do not idle at high speed for more than 5 minutes.

NOTE

On vehicles equipped with automatic transmission, fuel is automatically cut off when the engine is "racing" (running at high speed) with selector lever position "P" or "N".

NOTE

If the engine has become flooded during starting, slowly depress the accelerator pedal fully, hold it in this position and start the engine.

Engine block heater*

Your vehicle is designed to install the engine block heater.

The hole for installation of the heater is located in the engine block under the intake manifold and it is covered with a plug.

The engine block heater can help warm the engine block area for improved cold weather starting. It can also help reduce fuel consumption when a cold engine is warning up.

To install the engine block heater, consult your Daewoo Dealer.

IMMOBILIZER SYSTEM*

The Daewoo Immobilizer System provides an additional theft deterrent to the vehicle in which it is installed and prevents it from being started by unauthorized persons.

When the ignition key is turned to the LOCK position, the immobilizer indicator lamp located in the left side of digital clock will flash and the immobilizer system will activate. If this indicator lamp is not flash when the key is turned to the LOCK position, have the system checked by Daewoo Dealer.

The valid key for a vehicle equipped with a Daewoo Immobilizer System is a mechanical ignition key with integrated transponder, which is electronically coded. The transponder is placed invisibly in the ignition key.

Only valid ignition keys can be used to start the engine.

Invalid keys may only open the doors. The immobilizer system isolates the power supply to the ignition system, fuel pump and fuel injectors.

If the immobilizer system does not recognize the electronic code when you turn the ignition key to START, the engine will not start and the security indicator will keep blinking;

Turn the iginition key to OFF and restart the engine after about 5 seconds.

DRIVING WITH A MANUAL TRANSMISSION

To change gears, fully depress the clutch pedal. Then move the gearshift lever. After shifting, release the clutch slowly.



Shifting to reverse gear while vehicle is moving forward could damage transmission.

Stop your vehicle completely before shifting into reverse.



A CAUTION

To help prevent clutch damage, do not rest your foot on the clutch pedal while driving.

NOTE

To select reverse, be sure to lift the reverse button before shifting into reverse.

DRIVING WITH AN AUTOMATIC TRANSMISSION*

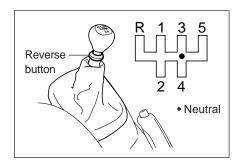
The automatic transmission in your Daewoo vehicle is an electronically controlled four speed transmission. The 4th gear is an overdrive function.

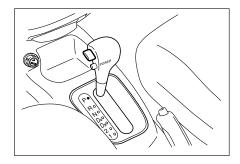
The position of the selector lever is indicated on the left side of the selector lever.

WARNING

Vehicle could move unexpectedly when shifting. You could lose control and hit people or objects.

Always depress brake pedal firmly while shifting from "P" (Park) or "N" (Neutral) to a forward or reverse gear.





A CAUTION

To help prevent transmission damage;

- Do not depress the accelerator pedal while shifting from "P" or "N" to "R", "D4", "D3", "2", or "1". Always depress the brake pedal until shifting is completed.
- Do not drive in "2" for more than 8 km or at speeds over 90 km/h.
 Use "D4" as much as possible.
- Never shift to "P (Park)" or "R (Reverse)" while the vehicle is in motion.
 - Shift to "P" or "R" only after vehicle is stopped completely.
- When stopping the vehicle on an uphill gradient, do not hold the vehicle by depressing the accelerator pedal. The foot brakes should be used for this purpose.

Selector lever lock

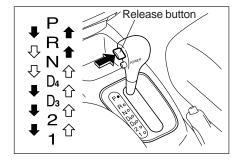
Push the release button located on the side of the selector grip when engaging "R"(Reverse) and "P"(Park) and shifting from "D4" to "D3", "D3" to "2" and "2" to "1" as indicated by the black arrow "

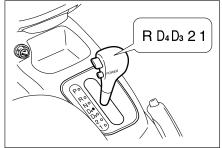
The selector lever can be shifted freely into any positions indicated by the white arrow " " "

: Push the release button to shift.

Starting the Car

- After starting the engine, fully depress
 the foot brake pedal before shifting the
 selector lever to the "D4", "R", "D3", "2"
 or "1" position. Be sure the vehicle is
 fully stopped before attempting to shift
 the selector lever into "R" or "P".
- 1. Keep the foot brake pedal depressed and shift into a driving gear.
- Release the parking brake and foot brake. Depressing the accelerator pedal slowly will gradually set the vehicle in motion.





Selector Lever Positions P, R and N

- P = Park, with the front wheels locked. To be selected only with the vehicle stationary and the parking brake on.
- R = Reverse. To be engaged only with the vehicle stationary.

N = Neutral.

WARNING

Vehicle can move suddenly when unattended.

- Turn off engine, apply parking brake fully and remove ignition key when leaving the vehicle.
- Do not use "P" (Park) position in place of the parking brake.
- Never leave the vehicle unattended while the engine is running.

NOTE

Fuel is automatically cut off when the engine is "racing" (running at high speed) with selector lever position "P" or "N".

Drive Range D4

D₄ = The drive position for normal driving conditions in first to fourth gear.

Fourth gear(the overdrive gear) reduces engine speed, fuel consumption and the engine noise level.

After the engine has been started and "D4" selected, the economy driving program is always operative.

Drive Range D₃

D₃ = The drive position for driving conditions in first, second and third gear.

Here are some times you might choose D₃ instead of D₄.

- When driving on long hilly roads.
- When driving in heavy city traffic.
- When going down a steep hill.

Drive Range 2

2 = The drive position for second gear hold basically (first and second gear above heavy throttle opening).

This position locks the transmission in second gear. But, when depressing the accelerator pedal fully (full throttle opening condition), the transmission downshifts in first gear.

Select drive range 2 for more power when climbing hills, for engine braking effects when driving down steep hills and for starting-off on slippery roads.

NOTE

Select drive range "2" and start off the vehicle with depressing the accelerator pedal lightly.

The vehicle starts off in second gear. Use this position in the event of starting-off difficulties on slippery roads.

NOTE

In drive range 2, the vehicle starts in first gear when the accelerator pedal is depressed fully.

NOTE

When towing the trailer, do not start the vehicle in drive range 2.

Drive Range 1

1 = The drive position for maximum braking effect, e.g. when driving down severe gradients; the transmission does not shift beyond first gear.

POWER / ECONOMY MODE SWITCH*

The Power/Economy mode switch, located on the side of the selector grip, enables you to select one of the two different driving modes.

Power mode:

For powerful acceleration or driving up long slopes, push the Power/Economy mode switch.

The "PWR" indicator light will come on. The transmission shifts into the POWER driving pattern. The transmission will shift at higher engine revolution obtaining powerful acceleration when passing or climbing.

To cancel the Power mode, push this switch again. Then, the "PWR" indicator light will go out and the Economy mode will be selected.

Economy mode:

For normal driving conditions, the economy mode should be selected.

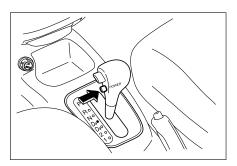
This is the most effective and economical mode for routine, stop-and-go or motor-way driving. The transmission will shift automatically in this mode.

EMERGENCY OPERATION*

If the "PWR" indicator blinks continuously, a fault has occurred in the TCM (Transmission Control Module) or electric part/sensor.

In this situation automatic shifting can be cancelled and then gear position will be automatically landed to 2nd gear in drive position D4, D3, 2 and 1 for only critical sensor/electric parts fault.

You must consult a Daewoo Dealer or Daewoo Authorized Service Operations as soon as possible when this condition occurs. The system's integral self-diagnosis facility allows faults to be quickly remedied.



DRIVING TIPS FOR AUTOMATIC TRANSMISSION*

Starting the Car

After starting the engine and before shifting into a drive range, depress the brake pedal since the vehicle will otherwise start to "creep". Never use accelerator and brake pedals simultaneously.

For normal driving conditions the "D4" position should be selected.

If the accelerator pedal is depressed gently and evenly the transmission will shift into the fuel-saving higher gears at an early stage. The drive range needs to be changed manually only in exceptional cases. Select "D₃", "2" and "1" only when automatic shifting up is to be avoided or if additional use is to be made of the engine braking effect.

Return to "D4" as soon as conditions permit.

Kickdown

When the accelerator pedal is depressed beyond its resistance point below certain speeds, the transmission shifts down into a lower gear. Full use is made of the engine power for acceleration.

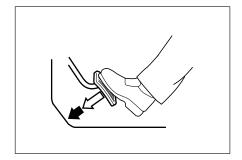
Engine Braking

In order to utilize the engine braking effect when driving downhill, select drive range "D3", "2" or, if necessary, "1" in good time.

The braking action is most effective in drive range "1". If drive range "1" is selected at too high a speed, the transmission remains in second gear until the shift point for first gear is reached, e.g. as a result of deceleration.

Starting-off Aid

In the event of starting-off difficulties on slippery roads, place the selector lever in drive range "2" and start off the vehicle with depressing the accelerator pedal lightly. The vehicle starts off in second gear.



Stopping the Car

The selector lever can be left in the chosen drive range with the engine running.

When stopping on gradients engage the parking brake or depress the brake pedal. Do not increase the engine revolutions to ensure smooth idling while standing if a drive range has been selected.

Switch off engine if stopping for a lengthy period, e.g. in traffic jams or at level crossings.

Before leaving the vehicle, apply parking brake, then place selector lever in position "P" and remove ignition key.

Rocking the Car

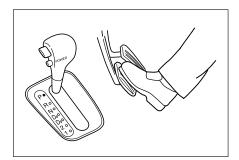
If it becomes necessary to rock the car to free it from sand, mud, snow or a hole, move the selector lever from "D4" to "R" in a repeat pattern while simultaneously applying light pressure to the accelerator pedal. Do not race the engine and avoid sudden acceleration.

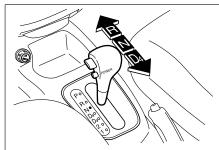
This applies only to the exceptional circumstances mentioned above.

Maneuvering the Car

To maneuver the car back and forth during attempts to park or in garage entrances utilize the above-mentioned creeping effect. Regulate your speed by lightly releasing the brake pedal.

Never press the accelerator and brake pedals simultaneously.





BRAKE

The regular braking system is designed for braking performance under a wide range of driving conditions even when the vehicle is loaded to its full rated vehicle load capacity.

Your vehicle is equipped with a diagonally split front and rear dual circuit braking system. Disc brakes are fitted to the front and drum brakes are fitted to the rear.

If one brake circuit should fail, the vehicle can still be stopped with the second remaining circuit. If this happens, the brake pedal must be fully depressed with greater pedal pressure. The braking distance is increased. Have the braking system checked and repaired by a Daewoo Dealer or Daewoo Authorized Service Operation before continuing your journey.

If the brake pedal can be pressed further than normal, it may be due to a lack of adiustment of the rear drum brakes. To find out if this is the case, drive backward and forward a few times, applying the brakes firmly when going in each direction.

Consult your Daewoo Dealer if the pedal height does not return to normal, or there is a rapid increase in pedal travel. This could be a sign of brake trouble.

WARNING

Brakes can have temporary loss of performance due to overheating.

- · On descents shift to a low gear.
- Do not continually apply brakes.

A CAUTION

Brake lining and pad can wear prematurely.

Do not drive with foot resting on brake pedal.

WARNING

Brakes can have temporary loss of performance due to wet brake components.

- After checking to the rear for other vehicles, lightly apply brakes for performance loss.
- Keep safe forward speed.
- Keep plenty of space ahead, to rear and to sides.
- · Lightly apply brakes until performance is normal.
- Always apply this procedure after driving through water deep enough to wet brake components or having the vehicle washed, to help reduce the risk of personal injury.

ANTI-LOCK BRAKE SYSTEM* (ABS)

Anti-lock brake system is an advanced electronic braking system that will help prevent a braking skid.

The anti-lock brake system prevents the wheels from locking up during sudden braking or braking on a slippery road to help the vehicle remain steerable and stable.

This system becomes operative only when it senses differences in rotational speed of the wheels, and that they are about to lock up. The system detects the wheel speed and electronically controls the pressure applied to the brake.

When the ignition is switched on, the ABS warning light comes on. It goes out after about 3 seconds. If it does not go out, or if it comes on during driving, there is a defect in the ABS. The vehicle's brake system remains operational without ABS regulation. Consult your Daewoo Dealer as soon as possible if this condition occurs.

Braking with ABS

Don't pump the brakes. Press the brake pedal hard down regardless of the road surface (dry, wet, slippery, etc.), hold it down and let ABS work for you.

The ABS modulates the braking pressure to the respective wheels to maintain the maximum braking effect on the vehicle, without loss of directional stability or steering control.

Slight brake pedal vibration accompanied by noise usually occurs while ABS is operating. Such vibration and noise simply indicates that the ABS is functioning normally. In an emergency, apply full force on the brake and clutch pedal simultaneously.

The anti-lock brake system will be activated immediately, thus allowing you to retain full steering control of your vehicle.

We recommend that you familiarize yourself with this braking technique. However, avoid taking unnecessary risks.

WARNING

Stopping distances can vary greatly depending on the road surface and conditions.

- Maintain safe distance to the vehicle in front.
- Drive slowly on wet or slippery road.

WARNING

ABS cannot prevent accidents resulting from careless or dangerous driving techniques.

- Drive carefully.
- · Slow down when cornering.
- Press brake pedal hard and hold.

WARNING

Brake system and ABS warning light illuminating at the same time indicates a failure in the base brake system due to malfunction of ABS.

- Stop the vehicle and consult your Daewoo Dealer.
- Have the system checked and repaired before continuing your journey.

PARKING BRAKE

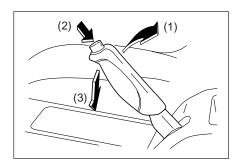
The parking brake acts on the rear wheels. It engages automatically when applied. The parking brake lever is located between the front seats.

To set the parking brake, depress the brake pedal and pull the lever up fully.

To release, depress the brake pedal, pull the lever up slightly (1) and push the button (2) in the tip of the lever. Then lower the lever while holding the button in (3).

Ensure the parking brake is fully released before driving off.

See your Daewoo Dealer if adjustment of the parking brake is required.



When Parking Your Vehicle

- 1. Hold the brake pedal down and firmly apply the parking brake.
- 2. Manual transmission models:

When parking on level ground, place the gearshift lever in the "NEUTRAL" position.

When parking on a downhill gradient, place the gearshift lever in the "RE-VERSE" position.

When parking on an uphill gradient, place the gearshift lever in the "1st" position. Automatic transmission models:

Move the selector lever to the "P" (PARK) position.

- 3. Close all windows and sun roof*.
- 4. Turn the ignition key to the "LOCK" position and remove the key.
- 5. Lock all doors and tailgate.
- 6. Be sure the vehicle is not moving.

A CAUTION

Things that can burn could touch hot exhaust parts under your vehicle and ignite.

Do not park or operate vehicle over combustible materials.

A CAUTION

The vehicle can move when parked.

- · Always apply parking brake fully.
- Park on firm, level ground.
- When hill parking, do not leave front wheels in straight ahead materials.

A CAUTION

Driving with parking brake applied could damage rear brake system.

- Before driving, fully release parking brake.
- Check brake system warning light off.



A CAUTION

Under cold weather conditions, the parking brake can freeze in the engaged position.

This is the most likely to happen if the brakes are wet.

If there is a risk that parking brake may freeze after driving through water deep enough to wet brake components or having the vehicle washed;

- · Apply the parking brake only temporarily while you put the gear selector lever in "P" (automatic transmission) or in first or reverse gear (manual transmission), and
- · Block the rear wheels.
- Then release the parking brake.

SUGGESTIONS FOR MORE **ECONOMICAL OPERATION**

Your car's fuel economy is mainly dependent on your style of driving.

How you drive, where you drive, and when you drive has an effect on how many kilometers you can get from a liter of fuel.

To obtain maximum fuel economy from your •

- Start gradually and accelerate gently.
- Avoid excessive and unnecessary idling.
- Keep your engine properly tuned.
- Do not race the engine.
- Use the air conditioning(if equipped) only when necessary.
- Slow down when driving on rough roads.
- Always keep your tires inflated to the recommended pressure for longer tire life and optimum fuel economy.
- Keep your distance from other vehicles to avoid sudden stops. This will reduce wear on brake linings and improve economy as extra fuel is required to accelerate back up to driving speed.

- Do not carry unnecessary weight in the vehicle.
- Do not rest your foot on the brake pedal while driving. This can cause needless wear, possible damage to the brakes and poor fuel economy.
- Always ensure your vehicle is maintained to the manufacturer's specifica-

ENGINE EXHAUST GAS CAUTION (CARBON MONOXIDE)

- Avoid inhaling engine exhaust gases.
 Engine exhaust gases contains carbon monoxide, which has no color or odor.
 Carbon monoxide is a dangerous gas. It can cause unconsciousness and can be lethal if inhaled.
- If at any time you suspect that exhaust gases are entering the vehicle, have the vehicle inspected and repaired immediately by a Daewoo Dealer or Daewoo Authorized Service Operation. If it is necessary to drive under such conditions, do so only with all windows fully open.
- To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:
 - each time the vehicle is raised for an oil change.
 - whenever a change is noticed in the sound of the exhaust system.
 - whenever the exhaust system, underbody or rear of the vehicle is damaged or becomes corroded.

- Do not operate the engine in confined areas such as garages or other closed areas any more than needed to move the vehicle in or out of the area.
- When the vehicle is stopped in an unconfined area for more than a short time with the engine running, place the air intake lever to the fresh air mode to draw the outside air into the vehicle and set the fan switch to high speed.
- Never sit(or leave the children) in a parked or stopped vehicle for any extended period of time with the engine running.
- Avoid driving with trunk lid or tailgate open, as exhaust gases could enter the vehicle. If you must drive with the trunk lid or tailgate open, close all windows, place the air intake lever to the fresh air mode to draw the outside air into the vehicle, and set the fan switch to high speed.

HAZARDOUS DRIVING

When hazardous driving is encountered because of water, snow, ice, mud, sand or similar hazard, follow these suggestions.

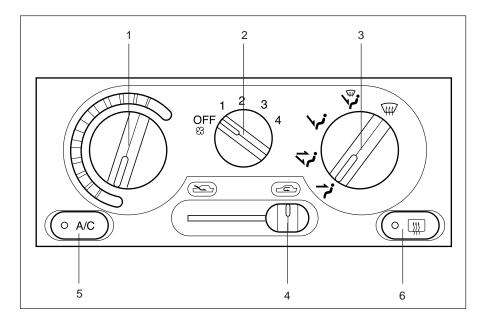
- Drive cautiously and allow extra distance for braking.
- Avoid sudden movements in braking or steering.
- When braking depress the brake pedal with a light up-and-down motion until the vehicle is stopped.
- If stalled in snow, mud or sand, use 2 (second) gear and accelerate slowly.
 Accelerate slowly to avoid spinning the front wheels.
- Use sand, rock salt, tire chains, or other nonslip material under the front wheels to provide traction when stalled in ice, snow or mud.

4

VENTILATION, HEATING AND AIR CONDITIONING*

CONTROL PANEL

- 1. Temperature control switch
- 2. Fan control switch
- 3. Air distribution switch
- 4. Air intake lever
- 5. Air conditioning switch*
- 6. Rear window demister switch



VENTILATION AND HEATING

Air mixture system: by mixing cold and hot air the temperature can be regulated without delay and thereby held practically constant at all speeds.

The rate of air flow is determined by the fan. The fan should therefore be switched on if required even when driving.

REAR HEATING DUCT*

Cold or heated air is routed to the rear foot area via ducts underneath the front seats.

CENTER VENTILATION VENTS

Air can be directed into the vehicle via both center vents.

The air flow can be directed as desired by tilting and swivelling the fins.

SIDE VENTILATION VENTS

Air can be directed into the vehicle via both side ventilation vents.

FRONT DOOR WINDOW DEFROSTER VENTS

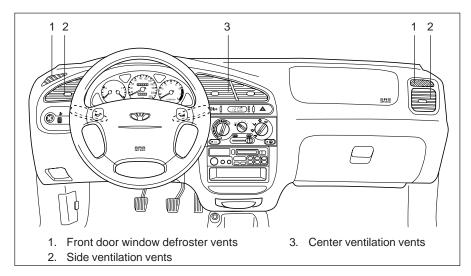
Cooled and warm air will be directed onto the windshield and onto the side windows (mainly in the area of the outside mirror).

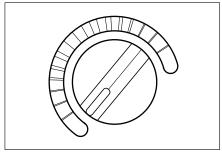
TEMPERATURE CONTROL SWITCH

The temperature control switch is used to control the temperature of the air that comes out of the air vents.

Blue colored position: cold

Red colored position: hot





FAN CONTROL SWITCH

The fan switch provides the speed control of the blower fan (there are 4 fan speeds). The rate of air flow can be regulated by means of the fan. To enhance comfort, the fan should be switched on during driving.

AIR INTAKE LEVER

This is used to select fresh outside air or recirculation inside air.

Fresh Air Mode ()

Outside air is drawn into the passenger compartment.

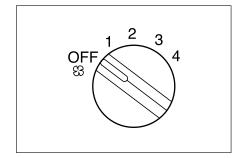
This position is used for normal ventilation, heating and cooling.

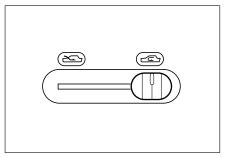
Recirculation Mode ()

Interior air is recirculated inside the vehicle. Use this position when driving in dusty conditions or to avoid traffic fumes, and when quick cooling or heating is required.

NOTE

Continued operation in the recirculation mode could cause interior to become stuffy and windows to fog up. Use recirculation mode in short periods of time.





AIR DISTRIBUTION SWITCH

This switch allows you to select the outlet air flow.

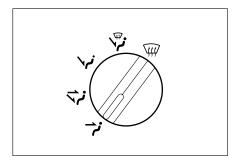
This switch has the following five positions; Face, Bi-level, Foot, Foot-defrosting and Defrosting.

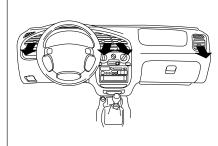
Face Position (🗡)

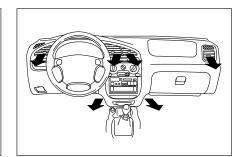
Air flows from the center and side ventilation vents.

Bi-level position (🗘)

Air flows from the center, side ventilation vents and the foot outlets of front seat.







Foot position ($\begin{tabular}{c} \begin{tabular}{c} \end{tabular} \end{tabular}$)

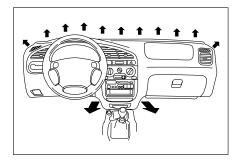
Air flows mainly from foot outlets of front Air flows from foot outlets of front seat, and seat. A small amount flows from windshield and front door window defroster vents.

Foot-Defrosting position (\checkmark)

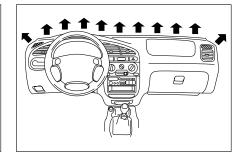
windshied and front door window defroster vents.

Defrosting position ()

Air flows from the windshield and front door window defroster vents.







AIR CONDITIONING SYSTEM*

The ventilation, heating and refrigeration sections make up a functional unit designed to provide maximum comfort at all times of year, under any weather conditions and at any outside temperature. The refrigeration unit of the air conditioning system cools the air and removes moisture and dust e.g. pollen.

The heating unit heats the air as required in all operating modes depending on the position of the temperature switch. The quantity of inflow air is regulated by using the fan.

AIR CONDITIONING SWITCH*

This switch turns on and off the air conditioning.

Start the engine, turn the fan speed control switch to the desired speed and press the air conditioning switch to turn on the air conditioning. The indicator light will come on when the air conditioning is on.

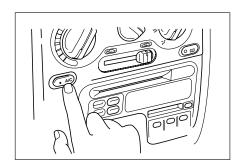
To stop the air conditioning, press this button again.

The air conditioning compressor does not operate when the fan control switch is in Off position.

NOTE

Using the air conditioning while driving up long hills or in heavy traffic can cause the engine to overheat.

- · Check temperature gauge.
- If the gauge indicates this, switch off air conditioning.



4-8 VENTILATION, HEATING AND AIR CONDITIONING*

MAXIMUM COOLING*

During hot weather and when the vehicle has been exposed to the sun for lengthy period.

Open window briefly so that warm air can escape rapidly.

Air conditioning switch: ON

Air intake lever :

Air distribution switch :

Temperature switch: Rotate fully

counterclockwise

(blue colored)

Fan switch: Maximum speed

NORMAL COOLING*

Normal cooling during interurban and motorway driving.

Air conditioning switch: ON

Air intake lever :

Air distribution switch : 📦 or 🐳

Temperature switch: Blue colored

Fan switch : As required

BI-LEVEL

To be used during transitional periods e.g. low outside temperature and little sunshine. Warmer air will flow into the floor area and cooler air or outside temperature air into the upper zone, when the temperature switch is adjusted between cold (blue) and hot (red).

Air conditioning switch: ON or OFF

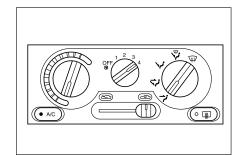
Air intake lever :

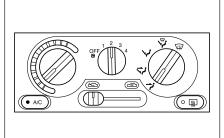
Air distribution switch :

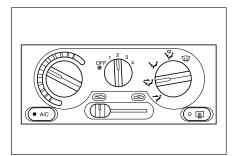
Temperature switch: Between blue (cold)

and red (hot)

Fan switch : As required







VENTILATION

Outside air is directed through the center and side ventilation vents.

Air conditioning switch: OFF

Air intake lever :

Air distribution switch : 💙 or 🍞

Temperature switch: Blue colored

Fan switch: As required

MAXIMUM HEATING

Air conditioning switch: OFF

Air intake lever :

Air distribution switch : 🔪

Temperature switch : Rotate fully clockwise

(red colored)

Fan switch : Maximum speed

Do not use maximum heating for long periods of time, it may cause the interior air to become contaminated and the windows to fog up. If windows fog up or moisten, move the air intake lever to the fresh air mode. Use this method only for quick heating and change to the normal heating as soon as possible.

NORMAL HEATING

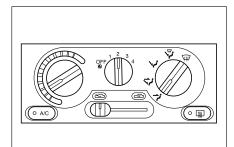
Air conditioning switch: OFF

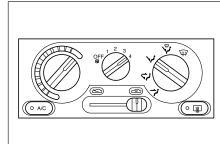
Air intake lever :

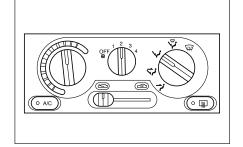
Air distribution switch : 🕶 or 🐳

Temperature switch: Red colored

Fan switch : As required







DEFROSTING

Air conditioning switch: OFF or ON

Air intake lever :

Air distribution switch : or or

Temperature switch: Red colored

Fan switch: As required

NOTE

Turn on the air conditioning to improve defroster efficiency.

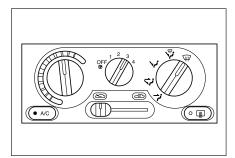
NOTE

Do not use the 🂝 or 🝿 position during cool operation in extremely humid weather.

The difference between outside air and the windshield temperatures could cause the out surface of the windshield to fog up and restrict or block your view.

OPERATING TIPS FOR COOLING SYSTEM

- · If the car has been parked in direct sunlight, open the windows before operating the air conditioning.
- To clean misted windows on rainy days, decrease the temperature inside the car by operating the air conditioning. This is most effective during rainy weather and high humidity.
- When driving in heavy traffic areas, insufficient cooling may occur because of stopping and slowing down of the car.
- When the air conditioning system is not being used for a month or more, you must run the engine at idle and turn the system on for a few minutes once each week, even during winter months. This will keep the compressor and seals properly lubricated and will prolong the service life of the system.
- Air conditioning compressor does not operate when the fan control switch is at off position.



5

AUDIO SYSTEM* (RADIO, CASSETTE AND CD PLAYER)

RADIO AND CASSETTE (AKF-4336)*

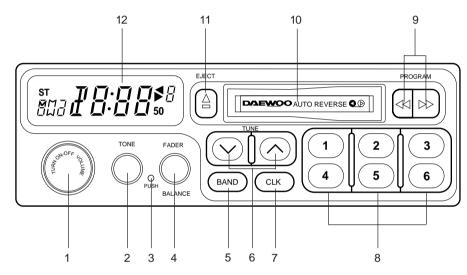
Before operating the audio system, read operation procedures thoroughly.

Becoming familiar with operation procedures will help you obtain the best performance from your car audio system.

Features

- Ergonomics design
- Auto reverse deck mechanism
- 18-station preset tuning (FM-12, AM-6)
- Electronic tuning
- Auto loudness function
- Clock function
- LCD

FRONT PANEL



- 1. Power / Volume Control Knob
- 2. Tone Control Knob
- 3. Security Warning LED*
- 4. Fader / Balance Control Knob
- 5. Band (FM/AM) Selection Button
- 6. Tuning Up (\(\sigma\) / Down (\(\sigma\)) Buttons
- 7. Clock Control Button

- 8. Preset Station Buttons (No. 1-6)
- Fast Forward(◄◄) / Rewind(►►)
 & Program Buttons
- 10. Tape Slot
- 11. Tape Ejection Button
- 12. L.C.D.

RADIO FREQUENCY INTERFERENCE

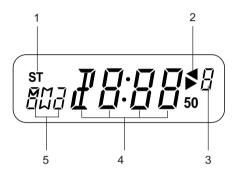
Radio reception is affected by station signal strength, distance from a radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality are normally caused by these external influences.

A CAUTION

Audio systems can be damaged when started by external jumper leads or booster battery.

Turn the audio system off.

L. C. D



- 1. FM stereo on indicator
- 2. Tape direction indicator
- 3. Preset button number display
- 4. Radio frequency / Tape / Time display
- FM / AM band indicator

GENERAL OPERATION

Power / Volume Control Knob (1)

Rotate this knob clockwise to turn on the audio system and increase the volume. Rotate it counterclockwise to decrease the volume.

To turn off the audio system, rotate this knob counterclockwise until the click sound is heard.

When the audio system is turned on, frequency or tape signal appears on the L.C.D.

NOTE

Audio system can be operated when the ignition key is at "ACC" or "ON" position.

Tone Control Knob (2)

Rotate this knob clockwise to increase the tone (high frequency) and counterclockwise to decrease it.

Fader/Balance Control Knob (4)

Fader Control:

Rotate this knob clockwise to decrease the volume of rear speakers and counterclockwise to decrease the volume of front speakers.

Balance Control:

While pressing this knob, rotate it clockwise to decrease the volume of left speakers and counterclockwise to decrease the volume of right speakers.

Clock Control Button (7)

To display the current time on the L.C.D. while operating the radio or cassette, press this button. Then, the current time will appear on the L.C.D. for about 5 seconds.

NOTE

When the ignition key is at "ACC" or "ON" position, the current time will always appears on the L.C.D. if the audio system is not turned on. If the audio system is turned on, radio frequency or TAPE signal will appear on the L.C.D.

How to Set the Time

- 1. Turn on the audio system.
- 2. Press the clock control button (7) once to display the time on the L.C.D.
- While the time is displayed on the L.C.D., press the clock control button again and hold it.
- At that time, press the tuning up (∧) button to adjust the hour and tuning down (√) button to adjust the minute.
- 5. After setting the time, release the clock control button.

RADIO OPERATION

- Rotate the power/volume control knob clockwise. Then the radio is turned on. If a tape is already loaded in the tape slot when the audio system is turned on, the cassette mode is turned on. To turn on the radio, eject the tape.
- Press the band selection button(5) to select the desired band.

Band changes as follows;

$$ightarrow$$
 FM1 $ightarrow$ FM2 $ightarrow$ AM $-$

- 3. Tune in the desired station using tuning up/down buttons or preset buttons.
- 4. To turn the radio on while the cassette is operating, eject the tape. The radio is automatically turned on.
- To turn off the audio system, rotate the power/volume control knob counterclockwise until the click sound is heard.

NOTE

Audio system can be operated when the ignition key is at "ACC" or "ON" position.

How to Tune in the Desired Station

Manual Tuning:

Press the tuning up (\(\sigma\)) or down (\(\sigma\)) button (6) for less than 0.5 second to increase or decrease the frequency. The frequency of AM band changes 9kHz (or 5kHz or 10kHz) each time and that of FM band changes 50kHz (or 100kHz or 200kHz) each time.

Seek Tuning:

Press the tuning up or down button for more than 0.5 second. Next receivable higher or lower station will be automatically searched for.

Using Preset Buttons:

To select the desired preset station stored on the preset buttons, press the corresponding preset button for less than 1.5 seconds.

How to Preset the Station

6 stations on each band (FM1, FM2 and AM) can be stored into the 6 preset buttons.

- 1. Select the desired band using the band selection button (5).
- 2. Tune in the desired station using tuning up/down button (6).
- 3. Press one of 6 preset buttons for more than 1.5 seconds.
 - The preset button number will be displayed on the L.C.D., then the station will be stored in the memory.
- By the same method, you can store the desired stations into the 6 preset buttons.

CASSETTE OPERATION

- Rotate the power/volume control knob clockwise. Then the radio is turned on.
- To turn the cassette on, insert the cassette tape into the tape slot.

Mode is automatically transferred from radio to cassette system, and the tape begins to play.

"TAPE" and tape direction indicators will appear on the L.C.D.

- If a tape is aleardy loaded in the tape slot when the audio system is turned on, the cassette mode is turned on and the tape begins to play.
- 4. To eject the tape, press the tape eject button (11). Then the radio is automatically turned on.
- To turn off the audio system, rotate the power/volume control knob counterclockwise until the click sound is heard.

Fast Forward / Rewind & Program Buttons (9)

Fast Forward:

To fast forward wind the tape, press the fast forward button (►►). The tape direction indicator will blink on the L.C.D.

When the tape reaches its end, it is automatically reversed and played back from the beginning of the opposite side.

To stop the fast forward movement, press the rewind button (\blacktriangleleft).

Rewind:

To rewind the tape, press the rewind button (\blacktriangleleft). The tape direction indicator will blink on the L.C.D.

When the tape is fully rewound, it is played back from the beginning of the same side. To stop the rewind movement, press the fast forward button (►►).

Program:

To play back the opposite side of tape while playing back one side, press the fast forward (►►) and rewind (◄◄) buttons simultaneously.

Auto Reverse

When the tape reaches at the end of one side, it will automatically reverse and play back the other side of tape.

ANTI-THEFT SYSTEM

The identification card stamped with the AF code and security code number is provided with the vehicle. Keep it in a safe place, not in the vehicle.

The audio security system activates immediately whenever the audio is disconnected from the battery.

To make the audio system operate again, you must follow the security number entering procedure.

The security warning LED will be flashed when the ignition key is removed, and will be disappeared when the ignition switch is turned to the ACC position.

Security number entering

- Turning the ignition key to "ACC" or "ON" and pressing power/volume control knob to turn the audio system "ON" after connecting the audio system to battery, the "AF" or "COdE" signal blinks on the L.C.D. If "AF" signal blinks on the L.C.D., go to step 2 or "COdE" signal blinks, go to step 4.
- Enter AF (Area Frequency) code into the unit with the preset buttons No. 1-4.
 For example; if your AF code is "2" press the preset button No. 2.
- And then "COdE" signal blinks on the L.C.D.
- 4. Enter your own "security number" into the unit, with the preset button No.1-6.

For example; if your "security number" is "1234".

- Press the preset button No. 1.
 "COdE" signal will be disappeared
 and the "1---" signal will show on
 the display.
- 2) Press the No.2, then the "12--" signal will appear,

- Press the No.3, then the "123-" signal will appear,
- 4) Press the No.4, then the "1234" signal will appear and blink three times.
- 5. Then, the mode of unit will be switched to radio.

If you fail to enter the "security number" into the unit, the "Err" signal appear for a few seconds and it will be disappeared.

Then the "COdE" signal will be displayed again. Repeat the security number entering procedure 4.

NOTE

- If you fail to enter the "AF code" into the unit, an incorrect frequency level is chosen and radio reception is interfered.
- Please reset audio system by removing the fuse "Audio (Batt.)" and inserting it. (see fuse box in the interior).
- Repeat the security number entering procedure.

RADIO AND CASSETTE (AKF-8846W)*

Before operating the audio system, read operation procedures thoroughly.

Becoming familiar with operation procedures will help you obtain the best performance from your car audio system.

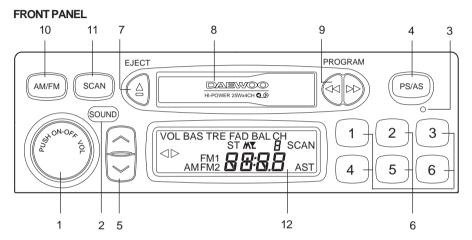
Features

- Ergonomics design
- High-power output(25W x 4ch)
- Automatic full logic deck mechanism
- 18(or 24*)-station preset tuning (FM-12, AM-6, LW-6*)

A CAUTION

High power supply can damage audio system.

Do not exceed 14V DC.



- 1. Power / Volume Control Knob
- Sound Mode Selector Button (Volume/Bass/Treble/Balance/Fader)
- 3. Security Warning LED
- 4. Auto Memory & Preset Scan Button
- Tuning Up(►►I) / Down(I◄◄) &
 Fast Forward(►►I) / Rewind(I◄◄)
- 6. Preset Station Button (No. 1-6)

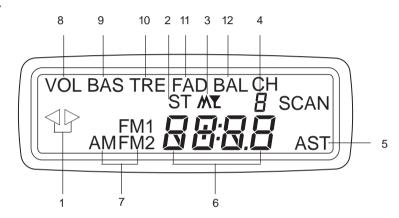
- 7. Tape Ejection Knob
- 8. Tape Slot
- 9. Cassette & Program Button
- 10. Band Selection Button
- 11. Scan
- 12. L. C. D

RADIO FREQUENCY INTERFERENCE

Radio reception is affected by station signal L. C. D. strength, distance from a radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality are normally caused by these external influences.

A CAUTION

Audio systems can be damaged when started by external jumper leads or booster battery. Turn the audio system off.



- 1. Tape direction indicator
- 2. FM stereo-on indicator
- 3. Weak FM station indicator
- 4. Preset number indicator
- 5. Auto memory indicator
- 6. Frequency/Tape signal/Audio level condition indicator
- 7. FM/AM/LW band indicator
- 8. Volume indicator
- 9. Bass indicator
- 10. Treble indicator
- 11. Fader indicator
- 12. Balance indicator

5-10 AUDIO SYSTEM* (RADIO, CASSETTE AND CD PLAYER)

GENERAL OPERATION

Power / Volume Control Knob (1)

Power On:

Press this knob to turn the audio system on.

Power Off:

Press the knob again to turn the audio system off.

All signals will disappear on the L.C.D.

NOTE

- Audio system will be operated at the mode which you operated before turning off the audio system.
- When ejecting the tape, the mode is automatically transferred to the radio.
- Audio system can be operated when the ignition key is at "ACC" or "ON" position.

How to Adjust the Sound (2)

Sound Mode Selection (2):

To select the desired audio mode, press sound mode selector knob (2).

The audio mode indicator and numeric signal will appear on the L.C.D.

Each time you press this knob, the sound mode changes as follows;

$$ightarrow$$
 VOL $ightarrow$ BAS $ightarrow$ TRE $ightarrow$ FAD $ightarrow$ BAL $ightarrow$

When the desired mode is selected, adjust the sound by rotating power/volume control knob (1).

After adjusting, the signal will be changed to the original condition 5 seconds later.

Volume Control (1):

- Press power/volume control knob (1), clockwise to increase the volume and counterclockwise to decrease the volume. The volume level will appear as numeric-signal on the L.C.D.
- 2. After adjusting, the signal will return to the original condition 5 seconds later.

Bass Control:

Bass control is used to adjust the bass (low frequency) sound quality.

- 1. Select the bass control mode using the sound mode selector knob(2).
- L.C.D., rotate volume control knob (1) clockwise to increase the bass (low frequency) and counterclockwise to decrease it.

The bass level will appear as numericsignal on the L.C.D.

The numeric-signal "0" indicates the original sound level.

The highest bass level is "+5" and the lowest "-5".

3. After adjusting, the signal will return to 3. the original condition 5 seconds later.

Treble Control:

Treble control is used to adjust the treble (high frequency) sound quality.

- 1. Select the treble control mode using the sound mode selector knob (2).
- 2. When the "BAS" indicator appears on the 2. When the "TRE" indicator appears on the L.C.D., rotate volume control knob (1) clockwise to increase the treble(high frequency) and counterclockwise to decrease it.

The treble level will appear as numericsignal on the L.C.D.

The numeric-signal "0" indicates the original sound level.

The highest treble level is "+5" and the lowest "-5".

After adjusting, the signal will return to the original condition 5 seconds later.

Balance Control:

Balance control is used to adjust the volume of the left and right speakers.

- Select the balance control mode using the sound mode selector knob (2).
- 2. When "BAL" indicator appears on the L.C.D., rotate volume control knob (1) clockwise to decrease the volume of left speakers.

Then, the balance level signal will change from "R1" up to "R15".

- 3. To decrease the volume of the right speakers, rotate volume control knob (1) counterclockwise.
 - The balance level signal will change from "L1" up to "L15".
- 4. When the signal "0" appears on the L.C.D., the equivalent volume of left and right speakers is heard.
- 5. After adjusting, the signal will return to the original condition 5 seconds later.

Fader Control:

Fader control is used to adjust the volume of the front and rear speakers.

- 1. Select the fader control mode using the audio mode selector knob(2).
- 2. When "FAD" indicator appears on the L.C.D., rotate volume control knob (1) clockwise to decrease the volume of rear speakers. The fader level signal will change from "F1" up to "F15".
- 3. To decrease the volume of the front speakers, rotate volume control knob (1) counterclockwise. The fader level signal will change from "R1" up to "R15".
- 4. When the fader level signal "0" appears on the L.C.D., the equivalent volume of front and rear speakers is heard.
- 5. After adjusting, the signal will return to the original condition 5 seconds later.

RADIO OPERATION

- 1. Press the power button (1) to turn the How to Tune in the Desired Station audio system on.
- 2. Press the "RADIO" button (10) to select the desired band.

Band changes as follows:

$$\rightarrow$$
 FM1 \rightarrow FM2 \rightarrow AM (or MW) \rightarrow LW* $-$

- 3. Tune in the desired station using tuning up/down buttons (for manual or seek tuning), preset buttons or preset scan button.
- To turn the radio on while the cassette is operating, eject the tape. The radio is turned on.

NOTE

Audio system can be operated when the ignition key is at "ACC" or "ON" position.

Seek Tuning:

To quickly search for next receivable lower station, press the tuning down button (เ◄◄) for more than 0.5 second.

To quickly search for next receivable higher station, press the tuning up button (▶▶) for more than 0.5 second.

Manual Tuning:

Press the tuning up (►►I) or down (I◄◄) button (5) for less than 0.5 second to increase or decrease the frequency. The frequency of AM band changes 9kHz (or 5kHz or 10kHz) each time, the frequency of LW band changes 1kHz and the frequency of FM band changes 50kHz (or 100kHz or 200kHz) each time.

Using Preset Buttons:

To select the desired preset station stored on the preset buttons, press the corresponding preset button for less than 2 seconds.

Preset Scan:

To hear the preset station stored on the preset buttons, press the preset scan button (4) for less than 2 seconds.

In FM band(FM1 or FM2), all of the preset stations stored on the preset buttons 1 through 6 in the FM1 or FM2 band will be tuned in for about 5 seconds each in turn. In AM or LW* band, all of the preset stations stored on the preset buttons 1 through 6 in the AM or LW* band will be tuned in for about 5 seconds each in turn.

During operating this function, the relevant frequency and preset button number will be flashed on the L.C.D.

After scanning all of the preset stations, this function is automatically cancelled and the station you heard before operating this function is tuned in.

When desired station is tuned in, press this button again or the corresponding preset button to stop the scan function.

How to Preset the Station

6 stations on each band (FM1, FM2, AM and LW*) can be stored into the 6 preset buttons.

Auto Memory:

- 1. Select the desired band using the band selection button (10).
- 2. Press the auto memory button (4) for more than 2 seconds.
- 3. Then, the strongest available stations are automatically stored on the preset buttons 1 though 6 in sequence.
 - If you operate this function when the preset button number is displayed on the L.C.D., the stations are stored on the preset buttons from that button number to 6
- After storing, all of the preset stations are scanned in sequence for 5 seconds each. And the station you heard before operating the auto memory function is automatically tuned in.

Manual Memory:

- 1. Select the desired band using the band selection button (10).
- 2. Tune in the desired station using tuning up/down button (5).
- 3. Press one of 6 preset buttons for more than 2 seconds.
 - The preset button number will be displayed on the L.C.D., then the station will be stored in the memory.
- By the same method, you can store the desired stations into the 6 preset buttons.

CASSETTE OPERATION

- 1. Press the power button (1) to turn the audio system on.
- Insert a cassette tape fully into the cassette slot with the exposed tape side facing to the right.
 - Then the player starts playback and "PLAY" signal appears on the L.C.D.
- 3. To eject the tape, press the tape eject knob (7).
 - Then, the mode is automatically transferred to the radio.

Fast Forward / Rewind & Program Buttons (9)

Fast Forward:

To fast forward wind the tape, press the fast forward button (►►). The tape direction indicator will blink on the L.C.D.

When the tape reaches its end, it is automatically reversed and played back from the beginning of the opposite side.

To stop the fast forward movement, press the rewind button (\blacktriangleleft).

Rewind:

To rewind the tape, press the rewind button (\blacktriangleleft). The tape direction indicator will blink on the L.C.D.

When the tape is fully rewound, it is played back from the beginning of the same side. To stop the rewind movement, press the fast forward button (>>).

Program:

To play back the opposite side of tape while playing back one side, press the fast forward (►►) and rewind (◄◄) buttons simultaneously.

Auto Reverse

When the tape reaches at the end of one side, it will automatically reverse and play back the other side of tape.

ANTI-THEFT SYSTEM

The identification card stamped with the AF code and security code number is provided with the vehicle. Keep it in a safe place, not in the vehicle.

The audio security system activates immediately whenever the audio is disconnected from the battery. It is protected by a security code.

To make the audio system operate again, you must follow the security number entering procedure.

The security warning LED will be flashed when the ignition key is removed, and will be disappeared when the ignition switch is turned to the ACC position.

Security number entering

- Turning the ignition key to "ACC" or "ON" and pressing power/volume control knob to turn the audio system "ON" after connecting the audio system to battery, the "AF" or "COdE" signal blinks on the L.C.D. If "AF" signal blinks on the L.C.D., go to step 2 or "COdE" signal blinks, go to step 4.
- Enter AF (Area Frequency) code into the unit with the preset buttons No. 1-4.
 For example; if your AF code is "2" press the preset button No. 2.
- And then "COdE" signal blinks on the L.C.D.

4. Enter your own "security number" into the unit, with the preset button No.1-6.

For example; if your "security number" is "1234".

- Press the preset button No. 1.
 "COdE" signal will be disappeared
 and the "1---" signal will show on
 the display.
- 2) Press the No.2, then the "12--" signal will appear,
- Press the No.3, then the "123-" signal will appear,
- 4) Press the No.4, then the "1234" signal will appear and blink three times.
- 5. Then, the mode of unit will be switched to radio.

If you fail to enter the "security number" into the unit, the "Err" signal appear for a few seconds and it will be disappeared.

Then the "COdE" signal will be displayed again. Repeat the security number entering procedure 4.

NOTE

- If you fail to enter the "AF code" into the unit, an incorrect frequency level is chosen and radio reception is interfered.
- Please reset audio system by removing the fuse "Audio (Batt.)" and inserting it. (see fuse box in the interior).
- Repeat the security number entering procedure.

AM/FM ETR STEREO CASSETTE (AKF-0676W)

Before operating the audio system, read operation procedures thoroughly.

Becoming familiar with these procedures will help you obtain the best performance from your audio system.

Features

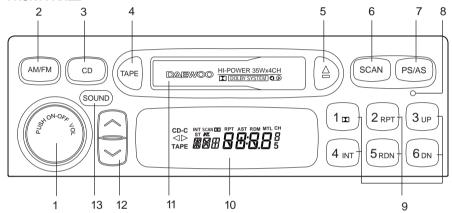
- Ergonomic design
- High-power output (35W x 4ch)
- Automatic full logic deck mechanism
- 18-station preset tuning
- Repeat function
- Introduction function
- Auto Music Search (AMS) function
- Dolby®-B noise reduction
- CD changer control

A CAUTION

High power supply can damage audio system.

Do not exceed 14V DC.

FRONT PANEL



- 1. Power / Volume Control knob
- 2. Radio-on & Band Selection button
- 3. CD changer-on button*
- 4. Cassette-on & Program button
- 5. Tape Eject button
- 6. Scan
- 7. Auto Memory & Preset Scan button
- 8. Security Warning LED
- 9. Preset Station button (No. 1-6)

Delia : Dolby-B Noise Reduction button

RPT: Repeat button

INT: Introduction button RDN: Random button*

UP: CD Up Selection button*
DN: CD Down Selection button*

- 10. Vacuum Fluorescent Display (V.F.D.)
- 11. Tape Slot
- 12. Tuning Up (►►I) / Down (I◄◄) & Fast Forward (►►I) / Rewind (I◄◄) Auto Music Search (AMS) buttons
- Sound Mode Selector button (Volume/Bass/Treble/Balance/Fader)

RADIO FREQUENCY INTERFERENCE

Radio reception is affected by station signal strength, distance from a radio transmitter, buildings, bridges, mountains and other external influences. These features may cause intermittent changes in reception quality.

A CAUTION

Audio systems can be damaged when the vehicle is started with external jumper leads or a booster battery.

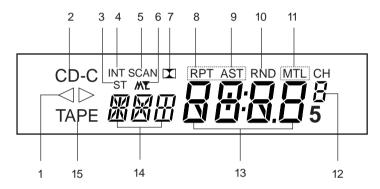
Turn the audio system off prior to jump starting your vehicle.

NOTE

Dolby[®] noise reduction is manufactured under license from Dolby Laboratories Licensing Corporation.

"Dolby®" and double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Vacuum Fluorescent Display (V.F.D.)



- 1. Tape direction indicator
- 2. CD changer-on indicator*
- 3. FM stereo-on indicator
- 4. Introduction function indicator
- 5. Scan function indicator
- 6. Weak FM station indicator
- 7. Dolby®-B noise reduction indicator
- 8. Repeat function indicator

- 9. Auto memory indicator
- 10. Random function indicator*
- 11. Metal tape indicator
- 12. Preset number indicator
- 13. Frequency/Tape signal/Audio level condition indicator
- 14. FM/AM/LW band indicator
- 15. Tape on indicator

GENERAL OPERATION

Power / Volume Control Knob

Power On:

Turn ignition switch to ACC or ON.

Press the power/volume control knob to activate the audio system.

The radio frequency, tape or CD changer signal will appear on the VFD.

Power Off:

Press the knob again to turn the audio system off.

All signals will disappear from the VFD.

NOTE

- · Upon activation, the audio system will start up in the mode it was in when last on.
- · When ejecting a tape, mode is automatically transferred to the radio.
- · Audio system can be operated when the ignition key is at "ACC" or "ON" position.

How to Adjust the Sound

Sound Mode Selection:

To select the desired audio mode, press sound mode selector button.

The audio mode indicator and numeric signal will appear.

Each time you press this knob, the audio 2. After adjusting, the display will return to mode changes as follows in order:

$$\rightarrow$$
 VOL \rightarrow BAS \rightarrow TRE \rightarrow FAD \rightarrow BAL $-$

When the desired mode is selected, adjust the sound by rotating power/volume control knob.

After adjusting, the display will return to full audio system information in 5 seconds.

Volume Control (1):

- 1. Rotate power/volume control knob clockwise to increase the volume and counterclockwise to decrease volume. The volume level will appear as a numeric signal.
- full audio system information in 5 seconds.

Bass Control:

Bass control is used to adjust the bass (low frequency) sound quality.

- 1. Select the bass control mode using the sound mode selector button.
- 2. When the "BAS" indicator appears on the VFD, rotate volume control knob clockwise to increase the bass (low frequency) and counterclockwise to decrease it.

The bass level will appear as a numeric signal on the VFD.

"0" indicates the original sound level. The highest bass level is "+5" and the lowest "-5".

3. After adjusting, the display will return to full audio system information in 5 seconds.

Treble Control:

Treble control is used to adjust the treble (high frequency) sound quality.

- 1. Select the treble control mode using the 1. Select the balance control mode using audio mode selector knob.
- 2. When the "TRE" indicator appears on the 2. When "BAL" indicator appears on the VFD, rotate volume control knob clockwise to increase the treble (high frequency) and counterclockwise to decrease it.

The treble level will appear as a numeric signal on the VFD.

"0" indicates the original sound level. The highest treble level is "+5" and the lowest "-5".

After adjusting, the display will return to full audio system information in 5 seconds.

Balance Control:

Balance control is used to adjust the volume of the left and right speakers.

- the sound mode selector button.
- VFD, rotate volume control knob clockwise to decrease the volume of left speakers.

Then, the balance level signal will change from "R1" up to "R15".

- 3. To decrease the volume of the right speakers, rotate volume control knob counterclockwise.
 - The balance level signal will change from "L1" up to "L15".
- 4. When the signal "0" appears on the VFD, the equivalent volume of left and right speakers is heard.
- 5. After adjusting, the display will return to full audio system information in 5 seconds.

Fader Control:

Fader control is used to adjust the volume separation between the front and rear speakers.

- 1. Select the fader control mode using the sound mode selector button.
- When "FAD" indicator appears on the VFD, rotate volume control knob clockwise to decrease the volume of rear speakers. The fader level signal will change from "F1" up to "F15".
- To decrease the volume of the front speakers, rotate volume control knob counterclockwise.
 - The fader level signal will change from "R1" up to "R15".
- 4. When the fader level signal "0" appears on the VFD., front and rear speakers are at equal volume.
- After adjusting, the display will return to full audio system information in 5 seconds.

RADIO OPERATION

- 1. Press the power button or AM/FM button to turn the audio system on.
- 2. Press the "RADIO" button to select the desired band.

Band changes as follows;

$$_{|}$$
 \rightarrow FM1 \rightarrow FM2 \rightarrow AM (or MW) \rightarrow LW* $-$

- Tune in the desired station using up/ down tuning buttons (for manual or seek tuning), preset buttons or preset scan button.
- To turn the radio on while the cassette is operating, eject the tape or press the AM/FM button (RADIO button).

NOTE

Audio system can be operated when the ignition key is at "ACC" or "ON" position.

How to Tune in the Desired Station

Seek Tuning:

To quickly search for the next receivable lower station, press the tuning down button (I

For the next higher station, press the tuning up button (▶►I).

You must press the button for more than 0.5 seconds.

Manual Tuning:

Press the tuning up (►) or down (◄) button for less than 0.5 second to increase or decrease the frequency.

Using Preset Buttons:

To select the desired preset station stored on the preset buttons, press the corresponding preset button for less than 2 seconds.

Preset Scan:

To hear the preset station stored on each preset button, press the preset scan button.

In FM band (FM1 or FM2), all stations stored on the preset buttons will be tuned in for about 5 seconds in sequence.

In AM or LW* band, all of the stations stored on the preset buttons will be tuned in.

While this mode the frequency and preset button number will be flashed on the VFD.

When the scanning function is complete, the system returns to the station tuned prior to scanning.

When the desired station is tuned in, press this button again or the corresponding preset button to stop the scan function.

Scan:

To hear each station on the current waveband in turn for about 5 seconds.

To Preset a Station

6 stations on each band (FM1, FM2, AM and LW*) can be stored using the 6 preset buttons.

Auto Store:

- Select the desired band using the AM/ FM selection button.
- 2. Press the auto store button for more than 2 seconds.
- The strongest available stations are automatically stored on preset buttons 1 though 6.
- After storing, the system returns to the frequency selected prior to initiating this function.

Manual Memory:

- 1. Select the desired band using the band selection button.
- 2. Tune in the desired station using tuning up/down button.
- 3. Press one of 6 preset buttons for more than 2 seconds.

The preset button number will be displayed on the VFD, and the selected station will be stored in memory.

CASSETTE OPERATION

- 1. Press the power button or "TAPE" button to turn the audio system on.
- Insert a cassette tape fully into the cassette slot with the exposed tape side facing to the right.
 - Playback begins and "PLAY" appears on the VFD.
- 3. If a cassette tape is already inserted in the cassette slot, press the cassette on button to turn the cassette on.
- 4. When playing a Dolby® tape, press the doubten (Dolby® B noise reduction button) to reduce audible "hiss".
- 5. To eject the tape, press the tape eject button.
 - Mode is automatically returned to radio.
- 6. To switch from radio to cassette, press the cassette-on button, or insert a cassette into the player.

Cassette On / Program Button

To play back the opposite side of tape while playing back one side, press the cassette on / program button.

Auto Reverse

When the tape reaches the end of one side, it will automatically reverse and play back the other side.

Fast Forward / Rewind & AMS (Auto Music Search) buttons

Fast Forward:

To advance the tape quickly, press the fast forward button ($\triangleright \triangleright$ 1).

"FF" appears on the VFD. When the tape reaches its end, it is automatically reversed and played back from the beginning of the opposite side.

To stop the fast forward movement, press the cassette on/program button.

Rewind:

To rewind the tape, press the rewind button (I◄◄) for more than 1.5 seconds. The "RE" indicator appears on the VFD.

When the tape is fully rewound, it is played back from the beginning of the same side.

To stop the rewind movement, press the cassette on/program button.

AMS (Auto Music Search) buttons

AMS function searches for the desired music.

To listen to the next item on the cassette, press "▶▶I" button. "A-FF" appears on the V.F.D. The tape moves forward and begins play from the beginning of the next selection.

When pressing "I--" button, "A-RE" appears on the VFD and the tape rewinds. The current selection is then played back from the beginning.

AMS automatically cancels after one find.

To cancel in the middle of AMS operation, press the same AMS button again.

Metal Tape Auto-Sensing

This unit has metal tape auto-sensing capability. If a metal tape is inserted, the "MTL" appears on the VFD.

Dolby®-B Noise Reduction

Press " o button when playing a tape which has been recorded using Dolby® noise reduction.

The Dolby® symbol ($\boxed{\mbox{D}}$) will be displayed on the VFD.

Improves the signal-to-noise ratio of the tape section, resulting in reduced audible "hiss" during playback.

Repeat Button

Press RPT button to repeatedly listen to the current tape or CD selection.

"RPT" will be displayed, and the current music selection will be played repeatedly until this function is canceled.

To cancel Repeat, press this button again.

ANTI-THEFT SYSTEM

An identification card with the radio security code is provided with your new Daewoo. Keep this information in a safe place, not in your vehicle.

The audio security system activates immediately whenever the system is disconnected from the battery.

If the audio security system is activated, you must enter the four-digit security code, using the following procedure.

Entering Security Code

- Turn the ignition key to "ACC" or "ON" and press power/volume control knob to activate the audio system. "AF" or "COdE" will flash on the VFD. If "AF" is displayed, go to step 2.
 - If "COdE" is displayed go to step 4.
- Enter Area Frequency (AF) code into the unit using the preset buttons.
 For example; if your AF code is "2" press the preset button No. 2.
- 3. "COdE" will then flash on the VFD.
- 4. Enter your security code into the unit using the preset buttons.

For example; if your "security code" is "1234".

- Press preset button 1.
 "COdE" will be replaced with "1---"
 on the VFD.
- Press preset button 2 and "12--" will be displayed.
- Continue to enter the remaining digits of your security code as above.
- When the complete four-digit security code is entered, the complete security code will flash three times. Your audio system will then be fully functional and the radio will begin to operate.

If you fail to enter the security code correctly, "Err" will be displayed for a few seconds. "COdE" will then be displayed again. Repeat the procedure above for entering the security code.

NOTE

- If you fail to enter the AF code, an incorrect frequency level may be chosen and radio reception may be affected.
- If this were to occur, please reset the audio system by removing and re-inserting the "Audio (Batt.)" fuse from the interior fuse box.
- Repeat the Entering Security Code procedure above.

RADIO, CASSETTE AND CD PLAYER (AKD-0636W)*

Before you use the audio systems, read these directions thoroughly.

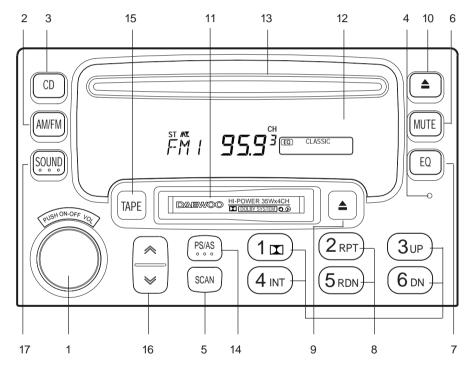
Becoming familiar with these directions will help you obtain the best performance from your vehicle's audio system.

Features

- Ergonomic design
- High-power output (35W x 4ch)
- Automatic full logic deck mechanism
- 18-station preset tuning FM-12, AM-6
- Repeat function
- Intro/random function
- Pause function
- Auto music search (AMS) function
- Dolby®-B noise reduction
- 7 Band, 5 Mode EQ

NOTE SONY CSA-9 adapter is necessary for 8cm disc.

FRONT PANEL



- 1. Power / Volume Control Knob
- 2. CD On & CDC Button*
- 3. Radio-On & Band (FM/AM) Selection Button
- 4. Security Warning LED*
- 5. Scan Button
- 6. Mute Button
- 7. EQ (Classic, Pop, Rock, Jazz, Voice)
- 8. Preset Station Buttons(No.1-6)
 - DI : Dolby-B Noise Reduction

RPT (Repeat Button)

: Repeat Playback (of one song) on Tape or CD, CDC

INT (Introduction Button)

: Brief introduction (of all songs) on CD, CDC

RDM (Random Button)

: Play tracks on the disc in a random order

- 9. Tape Ejection Button
- 10. CD Ejection Button
- 11. Tape Slot
- 12. V. F. D.
- 13. CD Slot
- 14. Preset Scan / Auto Memory Button
- 15. Cassette-On & Program Button
- 16. Tuning Up / Down or Fast Forward / Rewind Button
- 17. Sound (sound mode button)

NOTE

- Dolby noise reduction is manufactured under license from Dolby Laboratories Licensing Corporation.
- "Dolby" and double-D symbol \(\sqrt{a} \) are trademarks of Dolby Laboratories Licensing Corporation.

RADIO FREQUENCY INTERFERENCE

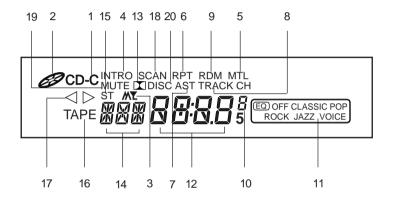
Radio reception is affected by station signal strength, distance from a radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality are normally caused by these external influences.

A CAUTION

Audio systems can be damaged when started by external jumper leads or booster battery.

Turn the audio system off.

V. F. D.



- 1. CD on indicator
- 2. Disc-inserted indicator
- 3. Weak FM station indicator
- 4. Introduction function indicator
- 5. Metallic tape function
- 6. Repeat function indicator
- 7. Automatic memory function indicator
- 8. Track function indicator
- 9. Shuffle function indicator
- 10. Preset button number display
- 11. Audio control indicator

- 12. Radio: Station
 - Tape: Operating status
 - CD: Track number display
- Dolby noise reduction function indicator
- 14. FM/AM band indicator
- 15. FM stereo on indicator
- 16. Tape on indicator
- 17. Tape direction indicator
- 18. Scan function indicator
- 19. Mute function indicator
- 20. CD changer disc number indicator

GENERAL OPERATION

Power / Volume Control Knob (1)

Power On:

Press this knob to turn the audio system on. The stations, tape or CD changer signal will appear on the V.F.D.

Power Off:

Press the knob again to turn the audio system off.

All signals will disappear on the V.F.D.

NOTE

- Audio system will be operated at the mode which you operated before turning off the audio system.
- When ejecting the tape, the mode is automatically transferred to the last mode.
- Audio system can be operated when the ignition key is at "ACC" or "ON" position.

How to Adjust the Sound (2)

Sound Mode Selection (17):

To select the desired audio mode, press sound mode selector button (2).

The audio mode indicator and numeric signal will appear on the V.F.D.

Each time you press this knob, the audio mode changes as follows;

$$\rightarrow$$
 VOL \rightarrow BAS \rightarrow TRE \rightarrow FAD \rightarrow BAL $-$

When the desired mode is selected, adjust the sound by rotating power/volume control knob (1).

After adjusting, the signal will be changed to the original condition 5 seconds later.

Volume Control (1):

- Rotate power/volume control knob (1) clockwise to increase the volume and counterclockwise to decrease the volume. The volume level will appear as numeric-signal on the V.F.D.
- 2. After adjusting, the signal will return to the original condition 5 seconds later.

NOTE

 Audio system will be ON, inserting a tape or CD, or pressing AM/FM button, CD button, tape button.

Bass Control:

Bass control is used to adjust the bass (low frequency) sound quality.

- 1. Select the bass control mode using the sound mode selector knob (17).
- 2. When the "BAS" indicator appears on the V.F.D., rotate volume control knob (1) clockwise to increase the bass (low frequency) and counterclockwise to decrease it.

The bass level will appear as numericsignal on the V.F.D.

The numeric-signal "0" indicates the original sound level.

The highest bass level is "+5" and the lowest "-5".

3. After adjusting, the signal will return to the original condition 5 seconds later.

Treble Control:

Treble control is used to adjust the treble (high frequency) sound quality.

- 1. Select the treble control mode using the 1. Select the balance control mode using sound mode selector knob (17).
- 2. When the "TRE" indicator appears on the 2. When "BAL" indicator appears on the V.F.D., rotate volume control knob (1) clockwise to increase the treble(high frequency) and counterclockwise to decrease it.

The treble level will appear as numericsignal on the V.F.D.

The numeric-signal "0" indicates the original sound level.

The highest treble level is "+5" and the lowest "-5".

After adjusting, the signal will return to the original condition 5 seconds later.

Balance Control:

Balance control is used to adjust the volume of the left and right speakers.

- the sound mode selector knob (17).
- V.F.D., rotate volume control knob (1) clockwise to decrease the volume of left speakers.

Then, the balance level signal will change from "R1" up to "R15".

- 3. To decrease the volume of the right speakers, rotate volume control knob (1) counterclockwise.
 - The balance level signal will change from "L1" up to "L15".
- 4. When the signal "0" appears on the V.F.D., the equivalent volume of left and right speakers is heard.
- 5. After adjusting, the signal will return to the original condition 5 seconds later.

Fader Control:

Fader control is used to adjust the volume of the front and rear speakers.

- 1. Select the fader control mode using the audio mode selector knob (17).
- When "FAD" indicator appears on the V.F.D., rotate volume control knob (1) clockwise to decrease the volume of rear speakers. The fader level signal will change from "F1" up to "F15".
- To decrease the volume of the front speakers, rotate volume control knob (1) counterclockwise.
 The fader level signal will change from

"R1" up to "R15".

- When the fader level signal "0" appears on the V.F.D., the equivalent volume of front and rear speakers is heard.
- 5. After adjusting, the signal will return to the original condition 5 seconds later.

Sound Style (EQ):

- Select one of the pre-defined sound style
- Classic
- Pop
- Rock
- Jazz
- Spoken voice (Voice)
- These styles correspond with certain range of audio frequencies.
- Each EQ mode is not compatible with Treble or Bass.

Mute:

Mute(silence) the set on cancel the mute.

Balance Control:

In balance control condition, turn this knob clockwise to raise the right speaker volume, counterclockwise to raise the left speaker volume.

"BAL" and "L (or R)" indicators will be illuminated and balance condition will appear as bar-signal on the V.F.D.

When the center solid line appears, the equivalent volume of right and left speakers is heard.

After 5 seconds, the balance condition indicator will be changed to the volume condition indicator.

RADIO OPERATION

- 1. Press the power knob (1) or AM/FM button to turn the audio system on.
- 2. Press the "AM/FM" button (3) to select the desired band.

Band changes as follows;

$$\rightarrow \mathsf{FM1} \, \rightarrow \mathsf{FM2} \, \rightarrow \mathsf{AM}(\mathsf{MW}) \, \rightarrow \mathsf{LW} \neg$$

- Tune in the desired station using seek tuning, manual tuning, preset button or preset scan function.
- 4. To hear the preset station stored on the preset buttons, use the preset scan button.
- To turn the radio on while operating CD player or cassette, press the "AM/FM" button (3).

NOTE

Audio system can be operated when the ignition key is at "ACC" or "ON" position.

How to Tune in the Desired Station

Seek Tuning:

Use the seek buttons (16) to quickly search for a station.

To search for next receivable lower station, press the " |

To search for next receivable higher station, press " ▶▶ " button.

Manual Tuning:

Press the tuning up (►►) or down (◄◄) buttons (16) to increase or decrease the frequency. The frequency of AM band changes 9 kHz (or 5 kHz or 10 kHz) each time and that of FM band changes 50 kHz (or 100 kHz or 200 kHz) each time.

Using Preset Buttons:

To select the desired preset station stored on the preset buttons, press the corresponding preset button for less than 1 second.

Preset Scan:

To hear the preset station stored on the preset buttons, press the preset scan button (14) for less than 2 seconds.

In FM(FM1 or FM2) band, all of the preset stations stored on the preset buttons in the FM1 or FM2 band will be tuned in for about 5 seconds each in turn.

In AM band, all of the preset stations stored on the preset buttons in the AM band will be tuned in for about 5 seconds each in turn

During operating this function, the relevant frequency and preset button number will be flashed on the V.F.D.

After scanning all of the preset stations, this function is automatically cancelled and the station you heard before operating this function is tuned in.

When desired station is tuned in, press this button again or the corresponding preset button to stop the scan function.

How to Preset the Station

6 stations on each band (FM1, FM2 and AM) can be stored into the 8 preset buttons.

Auto Memory:

- Select the desired band using the AM/ FM selection button (3).
- Press the auto store button (14) for more than 2 seconds until a beep sound is heard.
- Then, the strongest available stations are automatically stored on the preset buttons 1 though 6 in sequence.
 If you operate this function when the
 - preset button number is displayed on the V.F.D., the stations are stored on the preset buttons from that button number to 6.
- 4. After storing, all of the preset stations are scanned in sequence for 5 seconds each. And the station you heard before operating the auto store function is automatically tuned in.

Manual Memory:

- 1. Select the desired band using the band selection (3).
- 2. Tune in the desired station using tuning up/down button (16) or seek button (16).
- 3. Press one of 6 preset buttons for more than 1 second.

The preset button number will be displayed on the V.F.D., then the station will be stored in the memory.

 By the same method, you can store the desired stations into the 6 preset buttons.

CASSETTE OPERATION

- 1. Press the power knob (1) to turn the audio system on.
- Insert a cassette tape fully into the cassette slot with the exposed tape side facing to the right.
 - Then the player starts playback and "PLAY" signal appears on the V.F.D.
- If a cassette tape is already inserted in the cassette slot, press the cassette on button (15) to turn the cassette on.
- 4. When playing back the Dolby tape, press the doubt button (Dolby B noise reduction button) to reduce audible "hiss".
- 5. To eject the tape, press the tape eject button (9).
 - Then, the mode is automatically transferred to the radio.
- To operate the cassette while operating the radio or CD player, press the cassette on button (if a tape is already inserted in the cassette slot) or insert a tape into the cassette slot.

Then the cassette starts playback.

Cassette On / Program Button (15)

To turn the cassette on while operating the radio or CD player, press this button if a tape is already inserted in the cassette slot. The mode is transferred to the cassette and the tape is played back.

If a tape is not in the cassette slot, the mode is not changed to the cassette when you press this button.

To play back the opposite side of tape while playing back one side, press the cassette on / program button.

Auto Reverse

When the tape reaches at the end of one side, it will automatically reverse and play back the other side of tape.

Fast Forward / Rewind Button (16)

Fast Forward:

To fast forward wind the tape, press the fast forward button ($\triangleright \triangleright$).

The "FF" indicator appears on the V.F.D. When the tape reaches its end, it is automatically reversed and played back from the beginning of the opposite side. To stop the fast forward movement, press the cassette on/program button (15).

Rewind:

To rewind the tape, press the rewind button (◄). The "RE" indicator appears on the V.F.D.

When the tape is fully rewound, it is played back from the beginning of the same side.

To stop the rewind movement, press the cassette on/program button (15).

AMS (Auto Music Search) Button (16)

AMS function searches the desired music by counting the blank intervals between musics. If there is a blank interval within one music or there is no interval between musics, the system may not search correctly.

To correctly search, an interval of at least 4 seconds between each music section is required.

To listen to the next music, press "►►I" button. "A-FF" indicator appears on the V.F.D. The tape moves forward and it is played back from the beginning of next music.

When pressing "I=<" button, "A-RE" indicator appears on the V.F.D. and the tape rewinds. Then it is played back from the beginning of current music.

To listen to the previous music, press "Idd" button again when the tape stops at the beginning of current music.

The AMS function is automatically cancelled after finishing its function.

To cancel in the middle of AMS operation, press the same AMS button again.

Metal Tape Auto-Sensing

This unit has metal tape auto-sensing function. If a metal tape is inserted, "MTL" indicator appears on the V.F.D.

Dolby B Noise Reduction Button

Press " [] " button when playing back the tape which have been recorded using dolby noise reduction system.

The dolby symbol () will be illuminated on the V.F.D.

This system improves the signal to noise ratio of the tape section, resulting in reduced audible "hiss" during playback.

Repeat Button

Press "RPT" button to repeatedly listen to the current music.

The repeat indicator "RPT" will be illuminated in the V.F.D., and the current music will be played repeatedly until this function is canceled.

To cancel this function, press this button again.

Repeat function requires an interval of about 4 seconds between each music sections to properly work.

CD PLAYER OPERATION

- Press the power knob to turn the audio system on
- 2. Insert a CD into the CD slot with its label side up.
 - The player will begin playing the first track.
- 3. If a CD is already inserted in the CD slot, press the CD button.
 - The player will play the last track you listened to.
- 4. To eject the CD, press the CD eject button.

If the ejected disc is not taken out of the CD player within 10 seconds, the CD will automatically load again.

After the CD is ejected, the audio system will change to the last mode (radio or tape, CDC)

CD Player-On Button (2)

To turn the CD player on while operating the radio or cassette, and a CD is already inserted in the player, press the CD player-on button. The audio systems are changed to the CD player and the CD will play the last track you listened to.

If a CD is not in the CD player, the mode is not changed to the CD player.

Fast Forward / Rewind Button (16)

To fast forward, press the ($\blacktriangleright \blacktriangleright$) button. To reverse, press the ($\blacktriangleleft \blacktriangleleft$) button. When the disc reaches the desired point, release the button and normal playback will resume.

Track Up/Down Button (16)

Track up/down button (16) makes it easy to play back the current track again or to skip to the next or previous track.

To play back the next track, press the track up button (►►I) once.

Each time you press this button, the disc will be skipped continuously to the next track. To play back the current track again, press the track down button ((◄◄) once.

If you press this button again, the disc will be skipped to the previous track.

To fast skip to the next or previous track, keep the track up or down button pressed and release it when reaches the desired track.

NOTE

When operating the shuffle function, the track will be skipped in a random order.

Random Button

To play back the tracks on the CD in a random order, press "RDM" button. "RDM" indicator will be illuminated on the V.F.D.

After playing back the current track, the CD will be played back in a random order until this function is cancelled.

To cancel this function, press this button again.

Introduction Button

To scan the CD in a convenient way, press "INT" button.

"INTRO" indicator will be flashed on the V.F.D. and the player will playback the first 10 seconds of every track.

This introduction function will be automatically cancelled when scanning returns to the beginning of the track where it started.

When the player reaches the desired track, press this button again.

Then, this function will be cancelled and the player will resume normal play.

Repeat Button

To repeatedly listen to the current track, press "RPT" button.

"RPT" indicator will be illuminated on the V.F.D. and the current track will be played back repeatedly until this function is cancelled.

To cancel this function, press this button again.

ANTI-THEFT SYSTEM

The identification card stamped with the AF code and security code number is provided with the vehicle. Keep it in a safe place, not in the vehicle.

The audio security system activates immediately whenever the audio is disconnected from the battery. It is protected by a security code.

To make the audio system operate again, you must follow the security number entering procedure.

The security warning LED will be flashed when the ignition key is removed, and will be disappeared when the ignition switch is turned to the ACC position.

Security number entering

- Turning the ignition key to "ACC" or "ON" and pressing power/volume control knob to turn the audio system "ON" after connecting the audio system to battery, the "AF" or "COdE" signal blinks on the V.F.D. If "AF" signal blinks on the V.F.D., go to step 2 or "COdE" signal blinks, go to step 4.
- Enter AF (Area Frequency) code into the unit with the preset buttons No. 1-4.
 For example; if your AF code is "2" press the preset button No. 2.
- And then "COdE" signal blinks on the V.F.D.
- 4. Enter your own "security number" into the unit, with the preset button No.1-8.

For example; if your "security number" is "1234".

- 1) Press the preset button No. 1.

 "COdE" signal will be disappeared and the "1---" signal will show on the display.
- 2) Press the No.2, then the "12--" signal will appear,

- 3) Press the No.3, then the "123-" signal will appear,
- 4) Press the No.4, then the "1234" signal will appear and blink three times.
- 5. Then, the mode of unit will be switched to radio.

If you fail to enter the "security number" into the unit, the "Err" signal appear for a few seconds and it will be disappeared.

Then the "COdE" signal will be displayed again. Repeat the security number entering procedure 4.

NOTE

- If you fail to enter the "AF code" into the unit, an incorrect frequency level is chosen and radio reception is interfered.
- Please reset audio system by removing the fuse "Audio (Batt.)" and inserting it. (see fuse box in the interior).
- Repeat the security number entering procedure.

POWER ANTENNA*

The antenna will automatically extend when the radio mode is switched on, and retract when the radio mode is switched off.

A CAUTION

Before switching the radio on or off make sure that there is no one near the antenna while it is retracted or extended.

MANUAL ANTENNA

When listen to the radio, fully extend the antenna manually for the best reception.

CARE AND MAINTENANCE

Do not store cassettes in the following places;

- the upper Dashboard.
- in areas directly exposed to sunlight or high temperatures.
- · in a damp place.
- in an area of high heat.
- near speakers or magnets that have strong magnetic fields.

Cleaning the Head

- Clean the head and pinch-roller regularly in order to listen to the best quality of sound.
- When using a cleaning-tape, play it once on one side for normal cleaning.
- Excessive use of the cleaning-tape will increase head wear.
- Be sure to read the cleaning-tape instructions before use.

Cleaning the unit

- If the front panel is dirty, wipe it clean with a silicon cloth or soft dry cloth with the power off.
- Do not use hard cloth or paint thinner, alcohol, or other volatile solvents. These may damage external surfaces or remove lettering (indicator characters).

Cleaning the CD slot

Since dust accumulates in the CD slot, it will sometimes need to be cleaned.

Disc loaded in dusty slot may be damaged.

Lens fogging

In cold climates, there may be a period after you turn on your vehicle's heater when the lens that guides the laser beam used in your CD player fogs up. If this happens, you cannot play compact discs. Take out discs and the fogging will disappear.

6 IN CASE OF EMERGENCY

SPARE WHEEL, JACK AND VEHICLE TOOLS

The spare wheel, jack and vehicle tools are accommodated in the luggage/load compartment. The spare wheel is retained by a bolt under a floor cover. The jack and vehicle tools are located at the very rear of spare wheel compartment (Notch back), or at the right side of the trunk under a cover (Hatch back). The jack is retained by a wing bolt.

A CAUTION

Storing a jack, a tire, or other equipment in the passenger compartment of the vehicle could cause injury. In a sudden stop or collision, loose equipment could strike someone. Store jack, spare tire and tools securely in allocated storage location.

NOTE

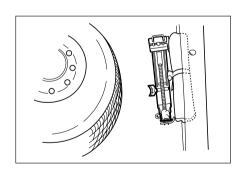
To eliminate the possibility of the jack, jack handle and tools rattling while the car is moving, stow them securely in place.

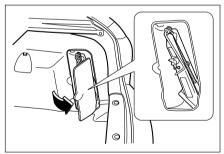
JACK SPECIFICATION

Туре	Cantilever
Maximum	0001
working load	600kg
Grease type	Lithium
Grease class	1 (NLGI)

WARNING

- Do not use the jack provided with your vehicle on other vehicles.
- Use the jack only on vehicle with it is supplied.
- Never exceed the jack's maximum permissible load.





WHEEL CHANGING

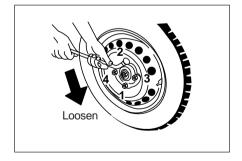
In order to reduce the chance of possible injuries when changing a wheel, note the following procedure and observe all references:

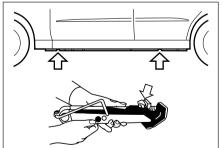
- Move cautiously off the road to a safe place away from the traffic.
- Park on a firm and level surface.
- Turn the ignition switch off and remove the ignition key.
- Switch on the hazard warning flashers and apply the parking brake firmly. Place the automatic transmission selector lever in position "P", or with manual transmission engage first gear or reverse.
- Block the wheel diagonally opposite the wheel to be changed by placing wedge blocks or any available blocks of wood or rocks behind and in front of it.
- · Set up warning triangle.
- Have all passengers get out of the car and stand in a safe place away from the traffic and clear of the vehicle.

Procedures

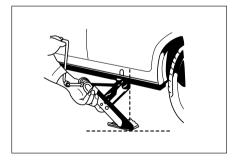
- 1. Pry the wheel cover off with the lug wrench or flat head screwdriver.
- Loosen the wheel bolts one turn each with the wheel wrench, but do not remove any bolts until the wheel has been raised off the ground.
- Lift the jack handle away from the jack base and raise to vertical position. Rotate the jack handle clockwise to raise the lift head slightly.

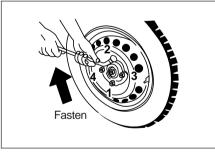
4. At the front and rear there are recesses for inserting the vehicle jack. The jack location is marked by half circle cut outs. Place the jack vertically at the front or rear jacking location closest to the wheel you are changing.





- Raise the vehicle by rotating the jack handle clockwise until the jack lifting head fits firmly into the notch and the wheel is off the ground (about 3cm).
 Do not raise the vehicle more than necessary.
 - As the jack touches the vehicle and begins to raise the vehicle, double check that it is properly positioned and will not slip.
- Remove the wheel bolts by turning them counterclockwise and then remove the wheel.
- 7. Mount the spare wheel in position and tighten the wheel bolts hand-tight by turning clockwise.
- Turn the jack handle counterclockwise and lower the vehicle to the ground.
 Tighten the wheel bolts firmly in "X" pattern (1-2-3-4).
- 9. Install the wheel cover.





WARNING

When using the jack the vehicle could become unstable and move, damaging the vehicle or badly injuring.

- Use jack supplied at correct jacking position.
- When installing the jack for lifting the vehicle, it should be perpendicular to the ground.
- Do not go under a jacked-up vehicle.
- Do not start engine while jackedup.
- Before jacking, get all passengers out of the vehicle and clear of vehicle and other traffic.
- · Use jack only for changing wheels.
- Do not jack vehicle on an inclined or slippery surface.
- Use jacking position nearest to required wheel change.
- Block wheel diagonally opposite the wheel to be changed.
- Before jacking ensure handbrake is on and the transmission is set in 1 st or reverse gear(M/T) or P(A/T).
- Do not jack the vehicle and change the wheel where traffic is close.

WARNING

A wheel can slacken or come off if the incorrect wheel bolts are used or if they are improperly tightened and cause loss of vehicle control.

- · Use correct wheel bolts.
- Make wheel bolts fit tightly and seated correctly.
- Do not use oil or grease on wheel bolts.

NOTE

Call a garage or motoring service for assistance where conditions are not satisfactory for jacking the car or if you are not confident of completing the task safely.

NOTE

The compact spare tire is for short-term use only.

Replace the spare with a regular tire as soon as possible.

STARTING THE ENGINE WITH JUMPER LEADS

A car with a discharged battery may be started by transferring electrical power from a battery in another car.

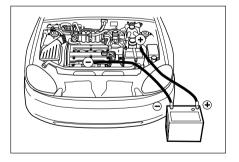
This may be dangerous and any deviation from the following instructions could lead to personal injury or property damage resulting from battery explosion, battery acid or electrical(short circuit) burns as well as to damage to the electrical systems in both vehicles.

- Never expose the battery to naked flames or sparks.
- Do not allow battery fluid to come into contact with eyes, skin, fabrics or painted surfaces. The fluid contains sulfuric acid which can cause injuries and damage in the event of direct contact.
- To lesson the risk of injury wear eye protection when working near any battery.
- Make sure that the battery providing the jump start has the same voltage as the battery in your car(12V).
- Do not disconnect the discharged battery from the vehicle.

- Switch off all unnecessary electrical loads.
- Do not lean over the battery during jump starting.
- Do not allow the terminals of one lead to touch those of the other lead.
- Apply the parking brake. Place the gearshift lever in "NEUTRAL" (manual transmission) or the selector lever in "P" (automatic transmission)

Connect leads in the order shown in the 4. picture:

- Connect one end of the first jumper lead to the positive terminal of the battery providing the jump start(identified by "+" sign on battery case or terminal).
- 2 Connect the other end of this lead to the positive terminal of the discharged battery("+" sign).
- Connect the first end of the other jumper lead to the negative terminal of the battery providing the jump start (identified by "-").



 Connect the other end of the second jumper lead to ground on the other vehicle e.g. engine block or screw connection in engine suspension.

Do not connect lead to negative terminal of discharged battery!

The connection point should be as far away from the discharged battery as possible.

Route the leads so that cannot catch on rotating parts in the engine compartment.

The engine of the vehicle providing the jump start can be allowed to run during starting.

Attempts to start the engine of the vehicle with the discharged battery should be made at intervals of one minute and should not last longer than 15 seconds. After starting, allow both engines to idle for approx. 10 minutes with the leads still connected.

 Turn off the engine, then carefully disconnect the jumper leads in the reverse order of connection.

A CAUTION

The audio system could be on when starting the engine with jumper leads and damage the system.

Switch off audio system.

A CAUTION

Trying to start your vehicle by pushing or pulling it could damage the catalytic converter and automatic transmission.

Do not try to start your vehicle by pushing or pulling it.

TOWING THE VEHICLE

If towing is necessary, contact a Daewoo Dealer or professional tow truck service. Proper lifting and towing procedures are necessary to prevent damage to the vehicle. When towing the vehicle by wheel lift,

- Switch on hazard warning flasher of both vehicles.
- Set the ignition switch in the "ACC" position.
- Place the gearshift lever in "NEUTRAL" (manual transmission) or the selector lever in "N" (automatic transmission).
- Release the parking brake.
- Vehicles should be towed with the driving (front) wheels off the road.

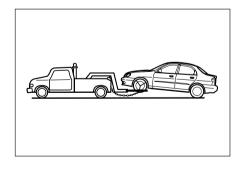


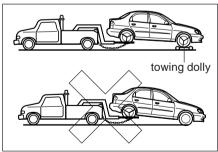
Towing the vehicle from the rear with front wheels on road could cause severe transmission damage. Use towing dolly under front wheels.

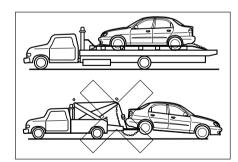
A CAUTION

Do not tow the vehicle with sling-type equipment or the vehicle will be damaged.

Use flat bed or wheel lift equipment.







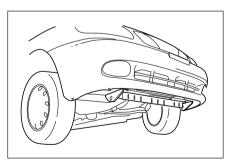
Emergency towing

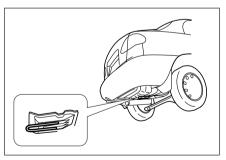
For emergency towing when a towing service is not available, your vehicle is equipped with the towing hooks under the front and rear of the vehicle for use with a tow rope.

When towing your vehicle with the tow rope:

- Secure the rope to both of the towing hooks under the front of the vehicle as tight as possible.
- Switch on the hazard warning flasher of both vehicles.
- Place the gearshift lever in neutral and release the hand brake.

- Set the ignition in the ON position to release the steering column lock and to permit the operation of brake lamps, horn and windshield wipers.
- Only the driver should be in the towed vehicle to steer it and operate the brakes.
- To prevent the entry of exhaust fumes from the towing vehicles, close the windows and place the air intake lever to the recirculation mode.
- Drive off slowly and avoid jerky movements.





WARNING

When towing with a tow rope, control of towed vehicle can be lost.

- Do not tow if the wheels, transmission, axles, steering or brakes are damaged.
- Do not remove key from ignition switch as this will make the vehicle unsteerable.

A CAUTION

When towing the vehicle with a tow rope, the vehicle can be damaged. To reduce damage,

- Use tow hooks only if no other towing equipment is available.
- · Only tow the vehicle from front.
- Keep tow rope clear of bumper.
- Ensure tow rope is securely fixed to tow hook, at both ends. Check by pulling on tow rope.
- Towing with a tow rope could cause severe automatic transmission damage. When towing vehicle with automatic transmission, use flat bed or wheel lift equipment.
- When towing another vehicle use the rear towing hook.

ROCKING THE VEHICLE

If it is necessary to rock the vehicle to free it from snow, sand or mud, move the selector lever on an automatic transmission models from "D" to "R" in a repeat pattern while depressing the accelerator gently. (On manual transmission models, move the gearshift lever from first to reverse gear). Do not race the engine. If you are still stuck after a minute or two of rocking, have the vehicle pulled out to avoid overheating and possible damage to the transmission.

WARNING

If you let your tires spin at high speed, they can explode, and you or others could be injured. And, the driveline components could be damaged.

TRAILER TOWING

Your vehicle is designed primarily as a passenger vehicle therefore handling, braking, durability and economy will be affected by towing a trailer.

Your safety and satisfaction depend upon proper use of correct equipment. Also, you should avoid overloading and other abusive use.

The maximum loaded trailer weight you can pull with your vehicle depends on your intended use and what special equipment has been installed on it. Before attempting any towing, ensure that the correct equipment is fitted to your vehicle.

Your Daewoo Dealer will help supply and install towing equipment to suit your requirement.

Trailer Loading

To load your trailer properly, you must know how to measure gross trailer weight and trailer tongue weight. Gross trailer weight is the weight of the trailer plus all cargo in it. You can measure gross trailer weight by putting the fully loaded trailer on a vehicle scale.

Trailer tongue weight is the downward force exerted on the hitch by the trailer coupler, with the trailer fully loaded and the coupler at its normal towing height. This weight can be measured using a bathroom scale.

The weight of your loaded trailer (gross trailer weight) should never exceed the specified values.

The maximum permissible trailer tongue weight is 50kg.

The permissible trailer loads are valid for gradients up to 12%.

When the trailer has been coupled, the permissible rear axle load for the fully loaded towing vehicle (including occupants) must not be exceeded.

WARNING

Total gross vehicle weight with trailer must not exceed the Gross Vehicle Weight Rating(GVWR) of the vehicle.

The total gross vehicle weight is the weight of the vehicle, driver, passengers, luggage or cargo, plus the weight of the hitch and the trailer tongue weight.

Maximum Load Limits

(unit: kg)

(. 0,
	Type	Caravan/ trailer	Tongue
1.3	With Brake	900	50
SOHC	Without Brake	480	50
1.5	With Brake	1,000	50
SOHC	Without Brake	480	50
1.6	With Brake	1,100	50
DOHC	Without Brake	480	50

WARNING

The given trailer weights are applicable for altitudes up to 1,000m above sea level.

In higher elevations the engine output and gradeability may drop so that it may not be possible for the permissible trailer loads to be fully utilized in mountainous territory. So, above 1,000m in altitude, maximum permissible trailer loads should be reduced by 10% for every further 1,000m in altitudes.

WARNING

Incorrect loading and crosswinds, large trucks passing or road roughness can cause swaying or trailer separation.

- Adjust tongue load by distribution of load in trailer.
- Check by weighing loaded trailer and tongue load separately.

Trailer Brakes

If the caravan/trailer brakes are used, you should follow all instructions provided by the manufacturer. Never modify the brake system of your vehicle.

Trailer Lights

Make sure your trailer is equipped with lights which meet country and local requirements. Always check for the proper operation of all trailer lights before you start to tow.

Tires

When towing trailers, be sure your tires are properly inflated to the inflation pressure shown on the Tire Placard on the glove box.

Safety Chains

Always attach safety chains between your vehicle and the trailer. Cross the safety chains under the tongue of the trailer so that the tongue will not drop to the road if it becomes separated from the hitch. Follow the manufacturer's recommendation for attaching safety chains. Always leave just enough slack to permit full turning. Never allow safety chains to drag on the road.

Brake Fluid

Change the brake fluid every 15,000 km (9,000 miles) under the following conditions.

- Towing a trailer frequently.
- Driving in hilly or mountainous terrain.

Automatic Transmission Fluid

Change the automatic transmission fluid every 75,000 km (45,000 miles) if your vehicle tows trailer frequently.

Towing tips

When towing a trailer, your vehicle will handle differently than under normal driving condition.

For safety, observe the following precautions:

- Practice turning, stopping, and reversing before you begin towing in traffic.
 Do not tow in traffic until you are confident that you can handle the vehicle and trailer safely.
- Before driving, make sure that the lighting system of the trailer works properly.
- Do not drive faster than 80km/h or legal maximum speeds, whichever is lower.
- When driving uphill do not drive faster than 30km/h in first gear or 50km/h in second gear.
- Make sure that you have enough room when cornering and avoid sudden maneuvers.
- Avoid abrupt starts, acceleration or stops.
- Avoid sharp turns or lane changes.
- Always drive your vehicle at a moderate speed.

- Always have someone guide you when reversing.
- Allow adequate stopping distance.
 Stopping distance is increased when you tow a trailer.
- Slow down and shift down into a lower gear before descending steep or long downhill grades. On vehicle equipped automatic transmission, select drive range "2" or, if necessary, "1" for engine braking efforts.
- Avoid holding the brake pedal down too long or too frequently, which will cause the brakes to overheat and result in reduced brake efficiency.
- Always block the wheels on both vehicle and trailer when parking. Apply the parking brake firmly.
- Parking on a steep slope is not recommended.

You really should not park your vehicle, with a trailer attached, on a hill.

If something goes wrong, such as the trailer/caravan hitch becoming disengaged, people can be injured and both the vehicle and trailer can be damaged.

- If someone removing the blocks stands directly behind the trailer, he could be injured. If your brakes or the hitch slipped, the trailer could roll backward. Make sure anyone removing blocks from your wheels stands to one side.
- Take note of trailer manufacturer's instructions.

Driving On Grades

Reduce speed and shift to a lower gear before you start down a long or sleep downgrade. If you don't shift down, you might have to use your brakes so much that they would get hot and no longer work well.

On a long uphill grade, shift down and reduce your speed to around 45 mph(70km/h) to reduce the possibility of engine and transaxle overheating.

Parking on Hills

You really should not park your vehicle, with a trailer attached, on a hill. If something goes wrong, your rig could start to move. People can be injured, and both your vehicle and the trailer can be damaged.

But if you ever have to park your rig on a hill, here's how to do it:

- Apply your regular brakes, but don't shift into PARK(P) for a automatic transmission yet, or into a gear for a manual transmission.
- 2. Have someone place chocks under the trailer wheels.
- When the wheel chocks are in place, release the regular brakes until the chocks absorb the load.
- 4. Reapply the regular brakes. Then apply your parking brake, and then shift to PARK(P) for a automatic transmission, or First or Reverse gear for a manual transmission (See page 2-15).
- 5. Release the regular brakes.

When You Are Ready to Leave After Parking on a Hill

- 1. Apply your regular brakes and hold the pedal down while you:
 - · Start your engine
 - Shift into a gear and
 - Release the parking brake.
- 2. Let up on the brake pedal.
- Drive slowly until the trailer is clear of the chocks.
- 4. Stop and have someone pick up and store the chocks.

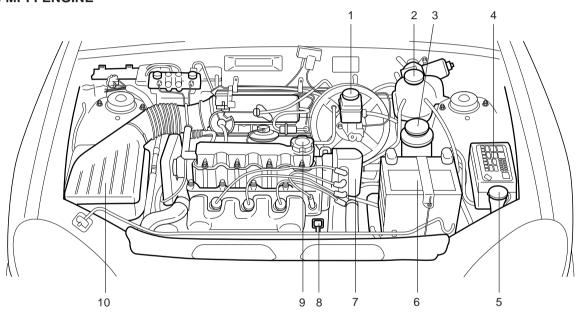
Maintenance When Trailer Towing

Your vehicle will need service more often when you're pulling a trailer. See the maintenance Schedule for more on this. Things that are especially important in trailer operation are automatic transaxle fluid (don't overfill), engine oil, belt, cooling system, brake fluid and brake adjustment. Each of these is covered in this manual and the index will help you find them quickly. If you're trailering, it's a good idea to review these sections before you start your trip.

Check periodically to see that all hitch nuts and bolts are tight.

SERVICE AND MAINTENANCE

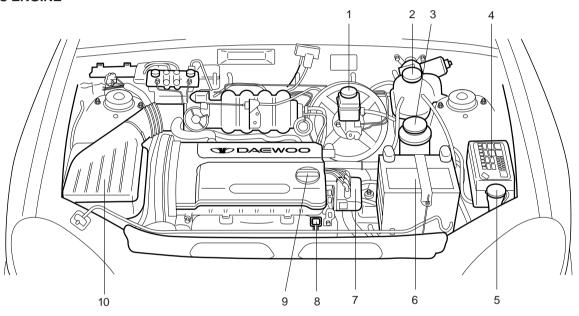
ENGINE COMPARTMENT 1.3 / 1.5 MPFI ENGINE



- 1. Brake/Clutch fluid tank
- 2. Coolant surge tank
- 3. Power steering fluid tank
- 4. Fuse and relay box

- 5. Washer fluid tank
- 6. Battery
- 7. Ignition coil
- 8. Engine oil level dipstick
- 9. Engine oil filler cap
- 10. Air cleaner

1.6 DOHC ENGINE



- 1. Brake/Clutch fluid tank
- 2. Coolant surge tank
- 3. Power steering fluid tank
- 4. Fuse and relay box

- 5. Washer fluid tank
- 6. Battery
- 7. Ignition coil
- 8. Engine oil level dipstick
- 9. Engine oil filler cap
- 10. Air cleaner

SERVICE PRECAUTIONS

When performing any inspection or maintenance work on your vehicle, always exercise care to reduce the risk of personal injury or damage to the vehicle.

Here are some general precautions that should be closely observed in carrying out any service operation.

- Do not work on the engine while it is hot.
 Always turn it off and allow it to cool.
- Never get under the vehicle while it is supported by a jack. If it is necessary to work under the vehicle, use safety stands.
- Keep smoking materials, flames, and sparks away from the battery and all fuel and fuel-related parts.
- Never connect or disconnect either the battery or any transistorized component while the ignition switch is ON.
- When connecting the battery cables, pay special attention to their polarities. Never connect a positive cable to a negative terminal or a negative cable to a positive terminal.

- Remember that the battery, ignition cables, and vehicle wiring carry high currents or voltage. Be careful not to cause a short circuit.
- When performing any checks in an enclosed space with the engine running, such as in a garage, be sure there is proper ventilation.
- Keep used oil, coolant and other fluids out of reach of children and pets.
- Empty and used oil/fluid containers must not be disposed of in the household refuse waste. Use your local authorized waste disposal facilities when disposing of these.
- If it is necessary to check beneath the engine hood with the engine running, park the vehicle on level ground, place the shift lever in NEUTRAL(manual transmission) or "P" position (automatic transmission) and apply the parking brake firmly. Unexpected and possibly sudden vehicle movement may occur if these precautions are not taken.

To avoid the possibility of personal injury, you should always turn off the ignition switch and remove the key before working under the engine hood unless the procedure specifically requires otherwise. If it requires running the engine while working under the engine hood, do not permit any clothing, such as ties or handkerchiefs, near the engine or cooling fan. They can become entangled in moving parts and result in personal injury and damage to the vehicle. Also remove watches, bracelets, and rings for safety.

A NOTE ON SAFETY

To avoid the possibility of injury from the cooling fan, carry out all engine checks with the ignition switched off so that the fan is not operating.

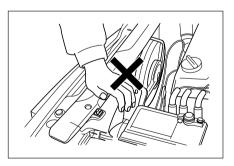
The fan is controlled by ECM (electronic control module) and consequently may start to operate unexpectedly.

When the ignition is on, it is also highly dangerous to touch live parts as the electronic ignition system has a greater current ignition power than conventional systems.

WARNING

You can injury, burn or shock.

- Make sure engine is off.
- · Do not touch live parts when ignition is on.



DRIVER'S CHECK LIST

The following checks are recommended before driving to maintain safe and dependable vehicle operation.

Exterior

- 1. Check the tires for inflation pressure and damage.
- 2. Check the wheel nuts for looseness.
- 3. Check the operation of the lights.
- 4. Check for any oil, water, fuel and fluid leaks.

Within the vehicle

- 1. Check for steering wheel play and
- 2. Check the parking brake lever travel.
- Check the operation of the horn, windshield wipers and turn signals.
- 4. Check the operation of instruments and indicator warning lights.
- 5. Check level of fuel in the fuel tank against fuel gauge.
- 6. Check the position of the rearview mir-
- 7. Check the operation of the door locking mechanism.

- 8. Check the clutch pedal free play, height and function.
- 9. Check the brake pedal free play, height and function.

Within the engine compartment

- 1. Check the engine oil level.
- 2. Check the tension of the drive belt.
- 3. Check the engine coolant level in the surge tank.
- 4. Check the battery condition.
- 5. Check the level of windshield washer solution
- 6. Check the level of the brake and clutch fluid in the reservoir.
- 7. Check the level of the power steering fluid.

ENGINE OIL

Checking procedure

The engine oil must be kept at the right level to help assure proper lubrication of your vehicle's engine. It is normal for an engine to use some oil. It is owner's responsibility to check the oil level at regular intervals (such as every fuel stop).

The engine oil level should be checked with the vehicle standing on level ground. After stopping the engine, wait a few minutes before checking the level for the oil to drain back to the oil pan. If the engine is cold, the oil may take considerably longer to drain back.

To check the oil level, pull out the dipstick, wipe it clean and reinsert it as far as it will go. Pull it out again and check that the oil

level is between MIN and MAX level marks on the dipstick. Also check the oil on the dipstick rod for contamination.

If the level is below the MIN mark, add enough oil to raise the level to the MAX mark.

The oil should not go above the "MAX" mark on the dipstick. This would lead, for example, to increased oil consumption, fouling of the spark plugs and excessive formation of carbon residue.

When replenishing, use the same specification of oil as used at the last oil change.



WARNING

Prolonged and repeated contact with engine oil may cause skin disorders.

- · Avoid excessive skin contact.
- · Wash thoroughly after contact.

WARNING

Keep used engine oil out of reach of children.

A CAUTION

Operating with insufficient or too much amount of oil can damage the engine.

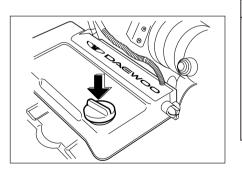
- Check engine oil regularly.
- Top up if required.
- · Don't add too much oil.

Engine oil and oil filter change

Engine oil changes are to be carried out depending on time intervals and mileage intervals, since oil loses its lubrication properties not only through engine operation but also through ageing.

Under exceptional conditions e.g. frequent cold starts or predominantly urban traffic and stop-and-go traffic, the engine oil and engine oil filter should be changed at shorter intervals rather than the recommended maintenance schedule.

Engine oil filter elements should be replaced at the same time with engine oil.



Service interval	Capacity
Change every 10,000km or 6 months (But, every 5,000km or 3 months under severe conditions)	3.75L (including oil filter)

Severe conditions

- When most trips are less than 6km.
- Operating when outside temperatures remain below freezing and when most trips are less than 16km.
- When most trips include extended idling and/or frequent low-speed operation as in stop-and-go traffic.
- When operating in dusty areas.

WARNING

Used engine oil and their containers can be a hazard to health and the environment.

- Do not dispose of used engine oil in household refuse waste.
- Use your local authorized waste disposal facilities when disposing of these.

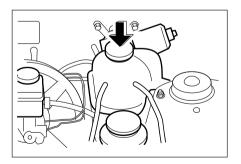
COOLANT LEVEL

The cooling system is filled with an ethylene glycol base coolant.

In the correct concentration the coolant provides excellent corrosion and freeze protection for the entire cooling and heating system and must therefore not be replaced by plain water even in summer.

The coolant level should be between "MIN" and "MAX" mark on the coolant surge tank when the engine is cool. The level rises at engine operating temperature and drops again when the engine cools down.

If the level falls below the "MIN" mark, add enough 50/50 water and ethylene glycol antifreeze mix, to provide freezing and corrosion protection.



For protection in extremely cold weather conditions, use 40% water and 60% ethylene glycol antifreeze mix.

Coolant concentration

	Coolant concentration	
	Antifreeze	Water
General area	50%	50%
Extremely cold area	60%	40%

Change of coolant

Service interval	Capacity
Change every 40,000km or 2 years	7.0 L

WARNING

Scalding hot coolant and steam could be blown out under pressure, which could cause serious injury. Never remove the coolant surge tank cap when the engine and radiator are hot.

WARNING

Take precautions to prevent antifreeze coming in contact with the skin or eyes.

- If contact happens, rinse affected areas immediately with plenty of water.
- If irritation persists, consult doctor.

A CAUTION

The engine or cooling system could be damaged.

- The antifreeze content of the coolant should be maintained at a minimum of 50%. The antifreeze content must not be allowed to exceed 60%.
- Do not use alcohol or methanol antifreeze or mix them with the specified coolant.
- Use only soft (demineralized) water in the coolant mixture.
- · Do not overfill the coolant.
- If frequent additions are required, contact Daewoo Dealer for cooling system check.

OVERHEATING

If the engine coolant temperature gauge shows an overheating condition or you have another reason to suspect the engine may be overheating, stop and park the vehicle. The air conditioning must be off. Leave the engine idling for a few minutes and check that the cooling fan is operating.

If the fan is not operating, turn the ignition off and consult your Daewoo Dealer immediately.

If the fan is operating and if steam is not coming from the engine compartment, open the engine hood and idle the engine until it cools.

If the fan is operating but the temperature is not lowered, stop the engine and let it cool.

Then, check the coolant level. If it's low, check for leaks in the radiator hoses and connections, heater hoses and connections, radiator, and water pump.

If you find a leak or other damage, or if coolant is still leaking, do not run the engine until these problems have been corrected. Consult Daewoo Dealer immediately.

WARNING

Steam from an overheated engine can burn you badly.

- If steam is seen, don't go to front of vehicle. Get everyone away from the vehicle.
- · Switch off engine.
- Allow engine to cool.
- Open engine hood when steam is no longer visible.
- Do not remove coolant surge tank cap until the engine and radiator are cool.

BRAKE/CLUTCH FLUID

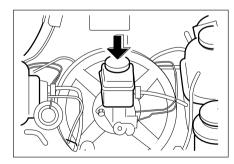
The brake fluid reservoir includes the clutch fluid reservoir.

Brake/clutch fluid is hygroscopic, and thus absorbs moisture. Excessive moisture in the brake/clutch fluid may adversely affect the safety of the hydraulic brake/clutch system. The fluid change intervals specified in this book must therefore be observed.

The fluid level in the container must not be higher than the MAX mark or lower than the MIN mark.

If the level falls below the MIN mark, add the fluid to the MAX mark with the specified brake/clutch fluid.

Low fluid level can indicate a leak in the brake /clutch system. Have the system checked at nearest Daewoo Dealer.



To add the brake/clutch fluid, first wipe away any dirt then unscrew the fluid reservoir cap. After removing the cap, top up the fluid to the MAX mark and tighten the cap securely afterwards.

Service interval	Capacity
Change every 30,000km or 18 months (But, every 15,000km or 9 months under severe condition).	0.5L

Severe Conditions:

- Driving in hilly or mountainous terrain.
- Towing a trailer frequently.

WARNING

The brake/clutch fluid can irritate hands and eyes.

- Do not allow brake/clutch fluid to make contact with skin or eyes.
- If contact happens, rinse affected areas immediately with plenty of water.
- If irritation persists, consult a doctor.

WARNING

Keep the brake/clutch fluid out of reach of children.

WARNING

Used brake/clutch fluid and their containers can be a hazard to health and the environment.

- Do not dispose of used brake/ clutch fluid with household waste.
- Use your local authorized waste disposal facilities.
- Have the brake/clutch fluid changed by Daewoo Dealer or Daewoo Authorized Service Operation.

MARNING

Too much brake/clutch fluid can spill on the engine. The fluid will burn if the engine is hot enough. You or others could be burned and the vehicle could be damaged.

Do not overfill the fluid.

A CAUTION

The brake/clutch fluid systems can get contaminated and cause loss off system performance.

Before removing reservoir cap, clean thoroughly area around cap.

A CAUTION

Using of non-recommended brake/ clutch fluid could cause damage to the brake/clutch system.

Use only Daewoo recommended brake/clutch fluid.

A CAUTION

Brake/clutch fluid damages paintwork.

• If spillage onto paintwork, wash with cold water immediately.

AUTOMATIC TRANSMISSION FLUID*

To ensure proper functioning, efficiency and durability of the automatic transmission, it is of the utmost importance that the fluid is always kept at the proper level.

The automatic transmission(4T40–E) does not have a dipstick to check the fluid level.

You may have the fluid level checked by your Daewoo Dealer or Daewoo Authorized

Service Operation.

The only way for the fluid level to decrease is if the automatic transmission develops a leak.

If a fluid leak occurs the vehicle should be taken to your Daewoo Dealer or Daewoo Authorized Service Operation to be repaired as soon as possible.

Fluid should not be added to the automatic transmission without properly setting the fluid level. Overfilling the automatic transmission fluid will decrease the automatic transmission performance and could damage the unit.

Use only specified fluid as given in the lubricant chart.

The fluid and filter do not require changing. But, if the vehicle is mainly driven under any of below conditions, the fluid and filter should be changed every 75,000 km (45,000 miles).

- In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher.
- In hilly or mountains terrain.
- · When doing frequent trailer towing.
- Uses such as found in taxi, police or delivery service.

MANUAL TRANSMISSION OIL

Check the oil level only when the engine is off, the vehicle is level and the transaxle is cool enough so that you can rest your fingers on the transmission case.

Remove the filler plug to check the level. The oil should come to the bottom edge of the filler plug hole.

If level is low, add oil until it begins to run out of the filler hole. Reinstall the plug securely.

Use only the specified oil as given in the lubricant chart.

After installing the plug, visually check the transmission case for leaks or damage.

MARNING

After driving, the transmission oil temperature may be high enough to burn you.

Wait until transmission oil and filler plug are cool before checking oil level.

POWER STEERING FLUID*

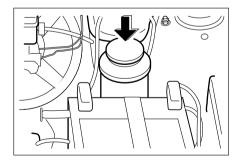
Check fluid level with engine turned off. The fluid level should lie between the MIN and MAX marks on the reservoir.

If it drops to or below the MIN mark, top up with the specified fluid.

Use only specified fluid as given in the lubricant chart.

The level in the reservoir should be checked in accordance with the intervals specified in this manual.

Service interval	Capacity
Check and replenish as	1.01
necessary	1.0L



A CAUTION

Operating the vehicle with insufficient amount of power steering fluid could cause damage to the power steering unit.

- Check level regularly.
- Top up if required.
- If frequent top up is required, have system checked by Daewoo Dealer or Daewoo Authorized Service Operation.

AIR CLEANER

If the vehicle is operated in very dusty or sandy areas, replace more often than at the usual recommended intervals. If it is dirty, shake the element to remove dust. Clean the inside of the air cleaner housing and cover with a damp cloth.

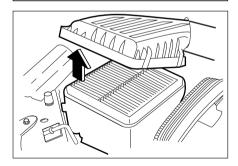
Clean the air cleaner element by blowing compressed air through it in the opposite direction to normal air flow.

Service interval

Change every 40,000km or 2 years.

A CAUTION

Engine can be damaged. Do not operate the vehicle without air cleaner element.

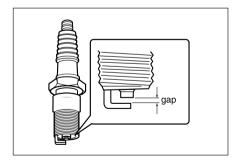


SPARK PLUGS

Spark plugs should be inspected periodically for carbon deposits. When carbon accumulates on a spark plug, a strong spark may not be produced.

If necessary, clean the electrodes with a fine wire brush and carefully scrape the carbon off the insulator with a small file. The spark plugs should then be blown clean with compressed air and the upper insulator wiped clean. And adjust the spark plug gap.

Service interval
Change every 20,000km or 1 years



	TYPE	GAP
SOHC	RN9YC BPR6ES	0.7~0.8mm
DOHC	BKR6E-II	1.0~1.1mm

Replacing the spark plugs

- 1. Clean any dirt from around the spark plug bases of each spark plug.
- Unfasten the spark plug cables by pulling on the trunk, and then remove the plugs with a spark plug wrench.
- 3. Install each new plug by hand as far as it will go. If necessary, a spark plug wrench may be used for an extension; if a plug does not turn in smoothly, remove it and try again to ensure the correct engagement of the threads on the spark plug with the threads in the cylinder head.
- 4. Tighten the plugs with a spark plug wrench. Do not overtighten.
- Make sure the spark plug leads are installed in the correct order. Fasten the trunk squarely over the end of each plug.

WARNING

Spark plugs may be very hot. Be careful not to burn yourself.

A CAUTION

To prevent the engine or other parts damage ;

- The spark plugs must be securely tightened, but not overtightened.
 Too loosing spark plug can get very hot and could damage the engine. Overtightening one could damage the threads in the cylinder head.
- Fit socket wrench squarely over spark plug when slackening or tightening.
- When installing the spark plugs, screw them in with your finger initially.
- Disconnect cable by pulling trunk, not the cable.
- Do not use non-recommended spark plugs.
- Do not allow contaminants to enter spark plug hole.

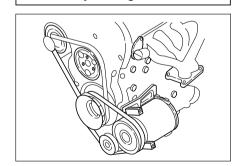
DRIVE BELT

Proper condition and correct tension are essential for the correct function of the alternator.

If the belt is worn, cracked or frayed, replace it. To check the belt tension, apply moderate thumb pressure (approximately 10kg) midway between pulleys, check the deflection. The deflection should be about 10mm. If the belt is too loose, have it adjusted by your Daewoo Dealer or Daewoo Authorized Service Operation.

WARNING

The engine could inadvertently start while checking the belt and cause moving parts to crush or cut.
Remove key from ignition switch.



WINDSHIELD WASHER FLUID

Use the specified windshield washer solution.

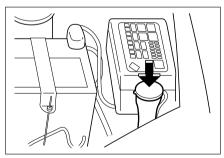
WARNING

Driving without washer fluid can be dangerous.

Check your washer fluid level before starting to drive.

A CAUTION

- Do not use radiator antifreeze in windshield washer. It can damage the washer system and paint.
- Do not mix water with washer fluid.
 Water can cause the solution to freeze and damage washer fluid tank and other parts of washer system.
- Fill washer fluid tank only 3/4 full when it is very cold. This allows for expansion, which could damage the tank if it is completely full.



WINDSHIELD WIPERS

Properly functioning windshield wipers are essential for safe driving and clear vision. Check condition of wiper blades from time to time. Hardened, brittle or smearing blades must be replaced.

Since there is no way to successfully remove traces of silicone from any glass, be certain not to apply any polish containing silicone to the windshield of your vehicle since this will result in streaks which impair vision.

Contamination of either the window or the wiper blades with foreign matter can reduce the effectiveness of the windshield wipers.

If the blades are not wiping properly, clean both the window and the blades with a good cleaner or mild detergent, and rinse thoroughly with clear water.

Repeat if necessary.

To replace the wiper blade, press the retaining clip and pull the wiper blade off the

Simply push the new wiper blade onto the arm.



A CAUTION

Solvents, gasoline, kerosene and paint thinner can damage wiper blades.

Keep them away from wiper blades.

BATTERY MAINTENANCE

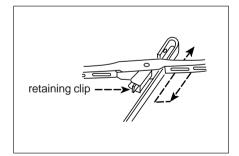
Your vehicle is fitted with a maintenance free (MF) battery without seal plugs.

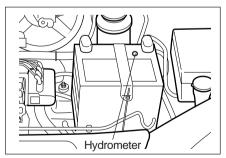
It needs no periodic maintenance.

The hydrometer (test indicator) in the top of the battery provides information for testing purposes only.

GREEN DOT	'BLACK' DARK	TRANSPARENCY
Normal	Discharged → Charging	If the engine is not started, replace the battery and check the charging system







Check the battery terminals for corrosion (a white or bluish powder). To remove it, cover the terminals with a solution of baking soda and water. It will bubble up and turn brown. When this stops, wash it off with plain water. Dry off the battery with a cloth or paper towel.

Coat the terminals with petroleum jelly to help prevent future corrosion.

them with baking soda and water.

Use a wrench to loosen and remove the cables from the terminals. Always disconnect the negative (-) cable first and reconnect it last. Clean the battery terminals with a terminal cleaning tool or wire brush. Reconnect and tighten the cable, then coat the terminals with petroleum jelly.

For best battery service, do the following.

- 1. Keep battery securely mounted.
- 2. Keep battery top clean and dry.
- 3. Keep terminals and connections clean, tight and coated with petroleum jelly or terminal grease.
- 4. Rinse off any spilled electrolyte immediately with a solution of water and baking soda.
- If the terminals are severely corroded, clean 5. If vehicle is not being used for an extended time, disconnect the cable from the negative (-) terminal of the battery to prevent discharge and charge battery every six weeks.

WARNING

The battery have acid that can burn you and gas that can explode. You can badly hurt if you are not careful.

- · Keep naked flames, sparks and smoking items away from battery.
- · Do not let any parts of body, clothes or paintwork contact the sulfuric acid.

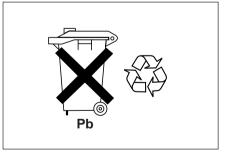
WARNING

Used batteries can be a hazard to health and the environment.

- Do not dispose of used batteries with household waste.
- · Use your local authorized waste disposal facilities.

A CAUTION

The polarity of battery, i.e. the connections for positive and negative cables, must not be interchanged.



BRAKE PEDAL

Checking pedal free play

Turn off the engine and depress the brake pedal several times to deplete the vacuum in the brake system. Gently depress the brake pedal by hand and measure the distance it moves until slight resistance is felt. If the free play is more or less than specified, have the brakes adjusted by a Daewoo Dealer or Daewoo Authorized Service Operation.

Brake pedal	1 0mm
free play	1~8mm

CLUTCH PEDAL

Checking pedal free play

Depress the pedal by hand until clutch resistance is felt; ensure free play is within specification.

If the free play is more or less than specified, have the clutch or linkage adjusted by Daewoo Dealer or Daewoo Authorized Service Operation.

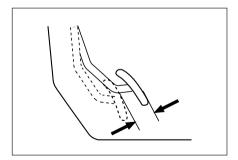
Clutch pedal free play	6~12mm
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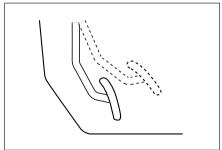
PARKING BRAKE

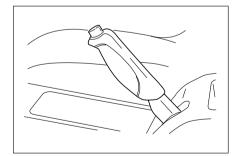
Check the stroke of the parking brake by counting the number of notch clicks heard while fully applying it from the released position.

Also, the parking brake alone should securely hold the vehicle on a fairly steep grade. If the number of clicks is more or less than specified, have the parking brake adjusted by a Daewoo Dealer or Daewoo Authorized Service Operation.

Stroke	6~9 notches at a force of 20kg
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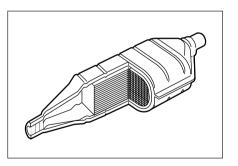
CATALYTIC CONVERTER*

Leaded fuel will damage the catalytic converter and parts of the electronic system, thereby rendering them inoperative.

On vehicles with a catalytic converter, the fuel tank filler neck is of a narrow design so that a dispensing pump for leaded fuel cannot be inserted.

A CAUTION

Catalytic converter can be damaged. Do not use leaded fuel.



Damage to the catalytic converter or the vehicle may result if the following points are not observed:

 Consult a Daewoo Dealer or Daewoo Authorized Service Operation as quickly as possible in the event of misfiring, irregular engine running following a cold start, a significant loss of engine power or other unusual malfunctions which may indicate a fault in the ignition system.

If necessary, driving may be continued for a short time at a low speed and with low engine revolutions.

You should therefore avoid:

- Frequent repeated cold starts.
- Actuation of the starter for an unnecessarily long time during starting (fuel is injected during the starting procedure).
- Allowing the tank to become empty (an irregular fuel supply leads to overheating).
- Starting the engine by pushing or towing (unburned fuel may enter the catalytic converter): use jump leads.

Have all maintenance work carried out by a Daewoo Dealer or Daewoo Authorized Service Operation. You can then be certain that all components of the vehicle's electrical, injection and ignition system will be operating correctly, that your vehicle has a low level of pollutant emission and that the catalytic converter system will have a long life.

WHEELS AND TIRES

Factory-fitted tires are matched to the chassis and offer optimum driving comfort and safety. Consult your Daewoo Dealer or Daewoo Authorized Service Operation before changing over to different tires or rims and obtain their advice as regards technical possibilities. Use of unsuitable tires or rims may lead to accidents.

Tire Inflation Pressure

Maintaining the specified tire pressure is essential for driver comfort, driving safety and long tire life.

Check the tire pressure, including the spare wheel, at least every 14 days and prior to any long journey. The tires should be checked in a cold condition using an accurate tire pressure gauge.

Tire Pressure kPa (PSI)

TIRE	FRONT	REAR
155/80 R13	240(35)	240(35)
175/70 R13	220(32)	220(32)
185/60 R14	220(32)	220(32)
T125/70 D14 (Temporary Tire	420(60)	420(60)

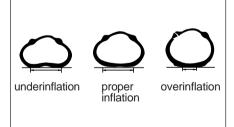
Increased pressure resulting from tire warmup must not be reduced, otherwise the pressure may drop below the permissible minimum.

Securely retighten valve caps after checking pressure.

Incorrect inflation pressures will increase tire wear and will impair safety, vehicle handling, comfort and fuel economy.

If the pressure is too low, this can result in considerable tire warm-up and internal damage, leading to tread separation and even to tire blowout at high speeds.

Hidden tire damage is not eliminated by subsequently adjusting the inflation pressure.



WARNING

To reduce the risk of loss of vehicle control and personal injury;

- · Property inflate tires.
- · Do not overload vehicle.

Tire Condition, Rim Condition

Driving over sharp edges can lead to hidden tire damage and rim damage which is only noticed later on: there is a danger of tire blowout.

Drive over edges slowly and at right angle if possible. When parking, ensure that the tires are not pressed against the edge of the curb.

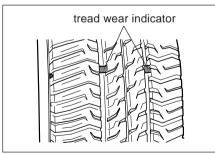
Check tires regularly for damage (foreign bodies, punctures, cuts, cracks, bulges in sidewalls). A damaged tire could burst. Check rims for damage. In the event of damage or abnormal wear, consult a Daewoo Dealer or Daewoo Authorized Service Operation.

Abnormal wear is usually caused by incorrect tire pressure, lack of regular rotation, improper wheel alignment, out-of-balance tires, severe braking or poor driving habit.

Check tread depth regularly. To help you detect when the tires should be replaced, the tires on your vehicle have built-in tread wear indicators that appear between the tread grooves when the tread is 1.6mm or less. The tires should be replaced when the tread worn down as far as one of the wear indicators. The wear indicator's position is indicated by markings on the tire sidewall.

For safety reasons, it is recommended that the tires be replaced when their tread depth has worn down to 2~3mm.

When replacing the tires, the radial tires should be fitted in pairs, or for preference in sets. Make sure that both tires on an axle are the same size, the same design, and the same make and have the same tread pattern.



WARNING

Mixing tires could cause you to lose control while driving.

Using tires of different sizes may also cause damage to the vehicle.

Be sure to use the same size and type tires on all wheels.

WARNING

Driving on worn, old or damaged tires is very dangerous and can cause accidents.

Replace tires if;

- The tread wear indicator appears, or
- · Tires have been damaged.

WARNING

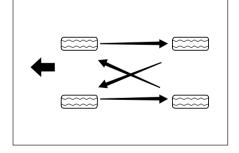
Dispose of worn tires in accordance with local environmental regulations.

Tire Rotation

Front and rear tires perform different jobs and can wear differently depending on the tires of road driven, driving habit, etc.

The front tires will wear faster than the rear ones.

To avoid uneven wear of tires and to prolong tire life, inspect and rotate your tires every 10,000km. After rotating, adjust the tire pressure and be sure to check wheel nut tightness.



Winter tires

If winter tires are used they must be fitted to all 4 wheels. Do not exceed the maximum speed specified by the tire manufacturer.

When using winter tires, the tire pressures supplied by the tire manufacturer must be adhered to.

WARNING

Using of winter tires could adversely affect safety and handling of the vehicle.

- Use equivalent size and type to vehicle's standard tires.
- Change over from winter to summer tires as soon as road condition allow.

Snow chains

Regulations regarding the use of tire chains vary according to location or type of road, so always check before fitting chains.

When fitting chains on your tires, carefully follow the instructions of the chain manufacturer.

The chain bands may scratch the wheel covers. Remove the covers before fitting the chains.

Fit the chains on the front tires as tightly as possible. The use of chains on the rear tires is not recommended. Retighten the chains after driving 0.5~1.0 km.

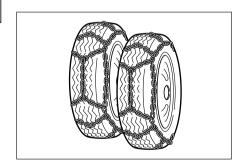
A CAUTION

Using of snow chains could adversely affect vehicle handling.

- Do not exceed 50km/h or the chain manufacturer's recommended speed limit, which is lower.
- Avoid sharp turns, bumps and holes.
- · Avoid locked-wheel braking.

A CAUTION

Use only SAE class "S" chains. Other types may damage your vehicle.



Compact Spare Tire

Although the compact spare was fully inflated when your vehicle was new, it can lose air over time. Check the inflation pressure regularly. It should be 60 psi (420 kPa).



A CAUTION

Do not use automatic car washes to wash your vehicle while a temporary spare is installed as a road tire and wheel.



Do not use tire chains on the temporary spare tire; they will not fit properly.

Using tire chains on the temporary spare tire will damage both the vehicle and the chains.

WARNING

Do not use the compact spare tyre with another compact spare tyre unit at the same time.

Drive carefully when you using compact spare tyre.

Do not exceed 80 km/h

ELECTRICAL SYSTEM

Ignition System

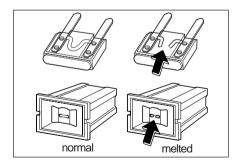
Electronic ignition systems have a greater ignition power than conventional systems. It is thus highly dangerous to touch live parts.

Fuse

For fuse replacement, withdraw the cover and extract blown fuse.

A defective fuse can be recognized by its melted wire. A new fuse should only be installed after the cause of the trouble has been located and eliminated.

Only fuses of the specified rating should be installed. The rating is given on all fuses.



Rating	Color
10A	Red
15A	Blue
20A	Yellow
30A	Pink

A CAUTION

The use of different types or different rating fuses could cause damage to the electrical system and even start a fire.

- · Always replace fuse with one with the same rating.
- Never use anything else but a fuse.
- · Do not use anything metal to remove fuse.

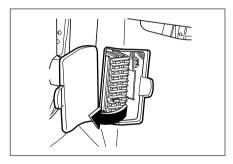
NOTE

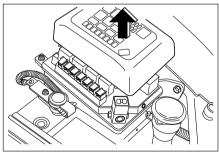
Three pieces of spare fuse for 10A, 15A, 20A are located on the inside of fuse & relay box cover in the engine compartment respectively.

FUSE BOX

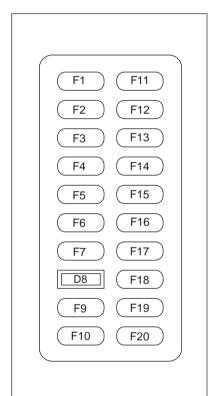
The fuse box is located below the driver's side of dashboard under a cover.

Another fuse box is next to the battery in the engine compartment.



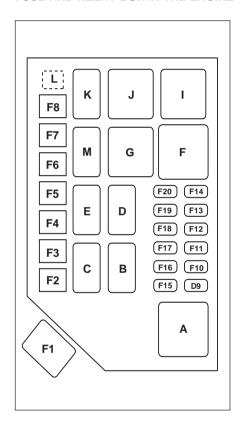


FUSE BOX IN THE INTERIOR



F1	Trunk lamp, Room lamp, Rear fog lamp*	10A	F11	I/P cluster, Clock*, DRL*, Rear window defroster, Seat belt warning lamp	10A
F2	Head lamp S/W, Immobilizer Chime, Digital clock	10A	F12	Reverse lamp	10A
F3	Hazard	15A	F13	Air bag*	15A
F4	Central door lock*	15A	F14	Injector, Alternator, VSS (M/T)	15A
F5	ECM (Batt.), TCM* (Batt.), ABS ECU* (Batt.)	10A	F15	Direct Ignition system	15A
F6	Audio (Batt.) Auto anterna	10A	F16	Turn signal lamp, Outside mirror S/W*	15A
F7	Brake lamp	15A	F17	ECM (Ign.), TCM* (Ign.), ABS lamp drive module*, Fuel pump relay, VGIS*	15A
D8	Diode		F18	Front/Rear wiper & washer	20A
F9	Audio* (Ign.)	10A	F19	Rear window demister relay, A/C compressor relay*, ABS ECU* (Ign.), Electric fan relay, Power window relay*	10A
F10	Cigarette lighter	15A	F20	A/C blower-1st, 2nd, 3rd*	20A

FUSE AND RELAY BOX IN THE ENGINE COMPARTMENT



Fuse F1. Main power 80A F2. Ignition 1 30A F3. Ignition 2 30A F4. Radiator fan-A 30A F5. Power window* 30A EBCM* F6. 40A F7. Rear window demister 30A F8. Blower motor 4 speed F10. High beam 20A F11. Low beam (left) 10A F12. Low beam (right) 10A F13. Tail lamp (left) 10A F14. Tail lamp (right) 10A F15. Front fog lamp 15A F16. Fuel pump 15A F17. Horn 10A F18. A/C compressor* 10A 25A F19. High beam F20. Illumination 20A

Relay and others

- A. Fuel pump relay
- B. Fog lamp relay
- C. Horn relay
- D. Illumination relay
- E. Headlamp relay
- F. Rear window demister relay
- G. Power window relay*
- H. A/C compressor relay*
- I. Radiator fan control relay
- J. Radiator fan relay A
- K. Radiator fan relay B
- L. Fuse tongs
- D9. Diode

BULB SPECIFICATION

Bulbs		Wattages x Number			
		Notch back	Hatch back	Remarks	
	Head lamp (high/low)	60/55Wx2	←	Halogen bulb	
	Position lamp	5Wx2	←		
Front	Turn signal lamp	21Wx2 or 28/8Wx2	←	Ambercolor	
	Fog lamp*	55Wx2	←	Halogen bulb	
	Side turn signal lamp	5Wx2	←		
	Turn signal lamp	21Wx2 or 27Wx2	←	Amber color	
	Brake / tail lamp	21/5Wx2 or 27/8Wx2	←		
	Fog lamp*	21Wx1	←		
Rear	Reverse lamp	21Wx2 or 21Wx1*			
	Center high mounted stop lamp*	21Wx1 or 27Wx1	←		
	License plate lamp	5Wx2	←		
Interior	Room lamp	10Wx1	←		
intendi	Trunk lamp		←		

* : Only "Vehicle equipped with rear fog lamp"

Important!

Head lamp aiming is a safety item and should therefore be carried out only by a Daewoo Authorized Service Station which will have special equipment and the necessary expertise.

WARNING

Halogen bulbs have pressurized gas inside and can burst if you drop or scratch the bulb. Take special care when handling and disposing of halogen bulb.

- Wear eye protection when working with bulbs.
- Protect bulb against abrasions and scratches.
- Protect against liquids when illuminated and not in sealed installation.
- Only illuminate bulb when installed in a lamp.
- Replace headlight if cracked or damaged.
- Keep bulb away from children.
- Dispose of used bulb with care.

HEADLAMP HIGH AND LOW BEAM

- 1. Open the engine hood and engage the support.
- and remove.

A CAUTION

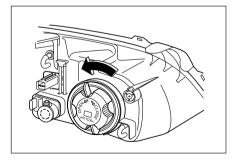
Greasy fingers will cause stains, resulting in a dull light.

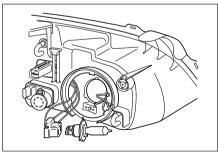
- Do not touch halogen bulbs with bare hands.
- · Clean with a clean non fluffy cloth using alcohol or white spirits.

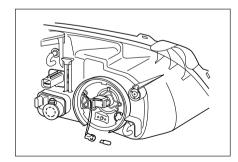
- 3. Disconnect the wiring harness connector from rear of the bulb.
- 2. Rotate the plastic cap counterclockwise 4. Release the bulb retaining spring and remove the bulb.
 - 5. Replace the bulb with a new one.
 - 6. Install in the reverse order of removal. When installing new bulb, ensure that the lugs on the bulb holder engage correctly in recesses of the housing.
 - 7. Rotate the plastic cap clockwise.

POSITION LAMP

- 1. Open the engine hood and engage the
- 2. Rotate the plastic cap counterclockwise and remove.
- 3. Pull out the bulb holder located next to the head lamp bulb.
- 4. Remove the bulb by pulling straight out of the bulb holder.
- 5. Replace the bulb with a new one.
- 6. Install in the reverse order of removal.





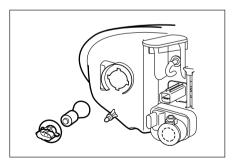


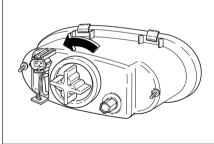
FRONT TURN SIGNAL LAMP

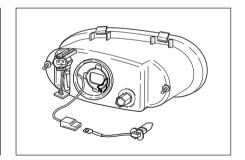
- 1. Open the engine hood and engage the support.
- 2. Rotate the front turn signal bulb holder counterclockwise and pull out from the lamp housing.
- Depress the bulb and rotate it counterclockwise to remove it from the bulb holder.
- 4. Insert the new bulb into the holder by depressing it and rotating clockwise.
- 5. Install the holder into the lamp housing by rotating it clockwise.

FRONT FOG LAMP*

- Rotate the plastic cap counterclockwise 3. and remove.
- 2. Release the bulb retaining spring and remove the bulb from the housing.
- 3. Disconnect the wiring harness flat plug by pressing the locking tab.
- 4. Replace the bulb with a new one.
- Install in the reverse order of removal.
 When installing new bulb, make sure the recesses on the bulb holder engage correctly in the lugs of the housing.







SIDE TURN SIGNAL LAMP*

- 1. Remove the side turn signal lamp assembly with pulling it rearward.
- 2. Rotate the bulb holder counterclockwise and remove it from the lamp housing.
- 3. Remove the bulb by pulling straight out of the holder.
- 4. Replace the bulb with a new one.
- 5. Install in the reverse order of removal.

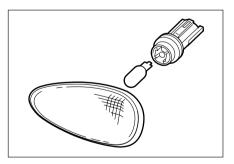
TAIL, BRAKE, REVERSE AND REAR TURN SIGNAL LAMP

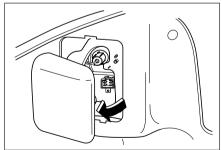
(Notchback Model)

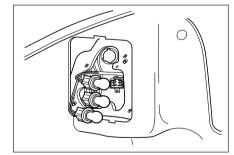
1. Open the trunk lid and remove the protective cover.

- 2. Rotate the bulb holder counterclockwise and remove the bulb holder from the lamp housing.
- 3. Depress the bulb and rotate it anticlockwise to remove it from the bulb holder.
- 4. Replace the bulb with a new one.
- 5. Install in the reverse order of removal.
- 6. Bulb sequence.

Upper	Tail & brake lamp
Middle	Turn signal lamp
Lower	Reverse lamp







(Hatchback Model)

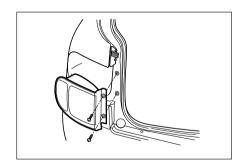
To replace tail, brake and rear turn signal lamp bulbs;

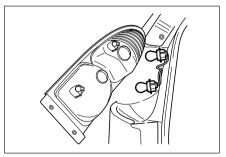
- 1. Open the tailgate.
- 2. Remove two fixing screws.
- 3. Rotate the bulb holder counterclockwise and remove the bulb holder from the lamp housing.
- 4. Depress the bulb and rotate it counterclockwise to remove it from the bulb holder.
- 5. Replace the bulb with a new one.
- 6. Install in the reverse order of removal.
- 7. Bulb sequence.

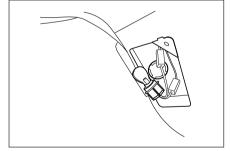
Outer	Turn signal lamp
Inner	Tail & brake lamp

To replace reverse lamp bulbs;

- 1. Open the tailgate.
- 2. Remove the protective cover.
- 3. Remove the bulb holder from the lamp housing.
- Depress the bulb and rotate it counterclockwise to remove it from the bulb holder.
- 5. Replace the bulb with a new one.







CENTER HIGH MOUNTED STOP LAMP*

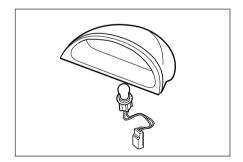
- 1. Open the trunk lid (or tailgate).
- 2. Remove the lamp undercover (Hatchback only).
- Rotate the bulb holder counterclockwise and remove the bulb holder from the lamp housing.
- Depress the bulb and rotate it counterclockwise to remove it from the bulb holder.
- 5. Replace the bulb with a new one.
- 6. Install in the reverse order of removal.

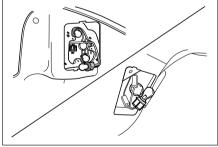
REAR FOGLAMP*

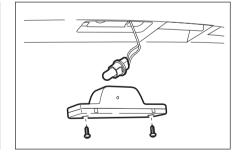
- 1. Open the trunk lid or tailgate and remove the protective cover on the driver's side.
- 2. Rotate the bulb holder counterclockwise and remove it from the lamp hosing.
- Depress the bulb and rotate it counterclockwise to remove it from the bulb holder.
- 4. Replace the bulb with a new one.

LICENCE PLATE LAMP

- 1. Remove the lamp covers.
- To remove the bulb holder from the lamp housing, rotate the bulb holder counterclockwise.
- 3. Pull the bulb out from the bulb holder.
- 4. Replace the bulb.
- 5. Install the bulb holder into the lamp housing by rotating the bulb holder clockwise.
- 6. Replace the lamp covers.







TRUNK LAMP

- 1. Prize out the lamp assembly with a flat 1. Prize the lamp out of recess, using a screwdriver from the holder.
- 2. Replace the bulb with a new one.
- 3. Insert the lamp assembly.

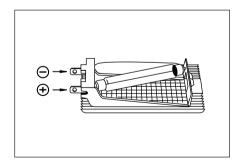
ROOM LAMP

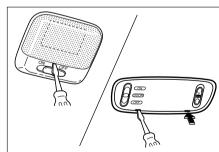
- screwdriver.
- 2. Press bulb slightly towards spring clip and remove.
- 3. Insert the new bulb.
- 4. Install in the reverse order of removal.

A CAUTION

When replacing the room light bulb, the room light could be live, causing electric shock if touched.

- · Close all doors.
- Place room light switch in "off" position.





SCHEDULED MAINTENANCE SERVICES

Maintenance services and record retention are the owner's responsibility. You should retain evidence that proper maintenance has been performed on your vehicle in accordance with the scheduled maintenance services chart.

	MAINTENANCE		Kilor	neters (miles) o	or time i	in montl	hs, whic	hever o	rer comes first						
	INTERVAL	x1,000 km	1	10	20	30	40	50	60	70	80	90	100			
MAINTENANCE		x1,000 miles	0.6	6	12	18	24	30	36	42	48	54	60			
ПЕМ		Months	_	6	12	18	24	30	36	42	48	54	60			

ENGINE CONTROL SYSTEM

Drive belt(alternator, power steering and A/C b	oelt)	I		I		I		R		I		- 1
Engine oil & engine oil filter	(1) (3)	I	R	R	R	R	R	R	R	R	R	R
Cooling system hose & connections			ı	I	I	I	I	ı	I	I	I	ı
Engine coolant	(3)	I	I	I	I	R	I	I	I	R	I	I
Fuel filter						R				R		
Fuel line & connections				I		- 1		I		I		- 1
Air cleaner element	(2)		I	I	I	R	I	ı	I	R	I	ı
Ignition timing				I		I		I		I		ı
Spark plugs			I	R	I	R	I	R	I	R	I	R
Ignition cable											R	
Charcoal canister & vapor lines						I				I		
PCV system					I			I			ı	
Timing belt					I			I			R	

Chart Symbols:

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 (1) If vehicle is operated under severe condition: short distance driving, extensive idling or driving in dusty condition, change the engine oil and the filter every 5,000km (3,000 miles) or 3 months, whichever comes first.
 (2) More frequent maintenance is required if under dusty driving condition.
 (3) Refer to "Recommended fluids and lubricants".

7-34 SERVICE AND MAINTENANCE

MAINTENANCE		Kilom	eters (r	niles) o	r time ir	n month	s, whic	hever c	omes fi	nes first								
INTERVAL	x1,000 km	1	10	20	30	40	50	60	70	80	90	100						
MAINTENANCE	x1,000 miles	0.6	6	12	18	24	30	36	42	48	54	60						
ПЕМ	Months	_	6	12	18	24	30	36	42	48	54	60						

CHASSIS AND BODY

Exhaust pipes & mountings			- 1	I	I	- 1	- 1	I	ı	I	I	- 1
Brake/clutch fluid (3) (4)	I	- 1	I	R	I	I	R	I	I	R	I
Front brake pads & disc	(5)		I	I	I	I	I	I	I	I	I	I
Rear brake drums & linings	(5)		- 1	I	ı	- 1	- 1	I	ı	I	I	I
Parking brake		I	I	I	I	I	I	I	I	I	I	I
Brake line & connections (including booster)			I	I	I	I	I	I	ı	I	ı	I
Rear hub bearing & clearance			I	I	I	I	I	I	I	I	I	I
Manual transmission oil	(3)		I	I	I	I	I	I	ı	I	I	I
Clutch & brake pedal free play			I	I	I	ı	I	ı	I	I	I	I

Chart Symbols:

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 - (3) Refer to "Recommended fluids and lubricants".
 - (4) Change the brake/clutch fluid every 15,000 km (9,000 miles) if the vehicle is mainly driven under severe conditions:
 - Driving in hilly or mountainous terrain, or
 - Towing a trailer frequently
 - (5) More frequent maintenance is required if under severe condition: short distance driving, extensive idling, frequent low-speed operation in stop-and-go traffic or driving in dusty condition.

	MAINTENANCE		Kilom	eters (r	niles) o	r time ir	n month	s, whic	hever c	omes fi	rst							
	INTERVAL	x1,000 km	1	10	20	30	40	50	60	70	80	90	100					
MAINTENANCE		x1,000 miles	0.6	6	12	18	24	30	36	42	48	54	60					
ITEM		Months	_	6	12	18	24	30	36	42	48	54	60					

CHASSIS AND BODY

Automatic transmission fluid* : 4T40E (3) (6)	I	I	I	I	I	I	I	I	I	I	I
Chassis and underbody bolts & nuts tight/secure		I	I	I	I	I	I	ı	I	I	I
Tire condition & inflation pressure	I	I	I	I	I	I	I	ı	I	I	I
Wheel alignment (7)			Insp	ect wh	en abno	ormal co	ondition	is note	d		
Steering wheel & linkage		I	- 1	I	I	I	I	I	I	I	I
Power steering fluid & lines* (3)	ı	I	- 1	I	- 1	- 1	I	I	I	- 1	I
Drive shaft boots		I	1	I	I	I	I	I	ı	I	I
Seat belts, buckles & anchors		I	I	I	I	I	I	I	I	I	I
Lubricate locks, hinges & engine hood latch		I	1	ı	I	I	ı	ı	ı	ı	I

Chart Symbols:

- I Inspect these items and their related parts. If necessary, correct, clean, replenish, adjust or replace.
- R Replace or change.
 - (3) Refer to "Recommended fluids and lubricants".
 - (6) Change automatic transaxle fluid and filter every 75,000Km (45,000 miles) if the vehicle is mainly driven under severe conditions.
 - In heavy city traffic where the outside temperature regularly reaches 32°C (90°F) or higher, or
 - In hilly or mountainous terrain, or
 - When doing frequent trailer towing, or
 - Uses such as found in taxi, police or delivery service.
 - (7) If necessary, rotate and balance wheels.

8 VEHICLE CARE

CLEANING AGENTS

Follow the manufacturer's advice whenever cleaning agents or other chemicals are used. inside or outside the vehicle. Some cleaners may be poisonous or flammable, and improper use may cause personal injury or damage. When cleaning the inside or outside of the vehicle, do not use volatile cleaning solvents such as: acetone, lacquer thinners, enamel reducers, nail polish removers: or cleaning materials such as laundry soaps, bleaches or reducing agents, except as noted in the fabric cleaning advice on stain removal. Never use carbon tetrachloride. petrol, benzene, or naphtha for any cleaning purpose. Open all vehicle doors for ventilation when any cleaning agents or other chemical are used in the interior. Overexposure to some vapors may result in a health problem which is more likely to occur in small, unventilated spaces.

To avoid possible permanent discoloration of light coloured seats, do not let materials with non-fast colours come in contact with seat trim materials until these materials are totally dry. This includes certain types of casual clothing, such as coloured denims, corduroys, leathers and suedes: also decorative paper, etc.

CARE AND CLEANING OF THE INTERIOR

With the use of modern trim materials, it is very important that you use proper cleaning techniques and cleaners. Failing to do this on the first cleaning may result in water spots, spot rings, or setting of stains or soils—all of which are more difficult to remove in a second cleaning.

Dust and loose dirt that collect on interior fabrics should be frequently removed with a vacuum cleaner or soft bristle brush. Wipe vinyl or leather trim regularly with a clean damp cloth. Normal trim soils, spots, or stains can be cleaned with cleaners:

Safety Belt Care

- Keep belts clean and dry.
- Clean safety belts only with mild soap and lukewarm water.
- Do not bleach or dye belts since this may severely weaken them.

GLASS SURFACES

Glass surfaces should be cleaned on a regular basis. The use of glass cleaner or a liquid household glass cleaner will remove normal tobacco smoke and dust films sometimes caused by ingredients used in vinyls and interior plastics.

Never use abrasive cleaners on any vehicle glass, as they may cause scratches. If abrasive cleaners are used on the inside of the rear window, any electric demister element may be damaged. Avoid placing decals on the inside rear window, since they may have to be scraped off later.

Cleaning the Outside of Windshield

If your windshield is not clear after using the windshield washer, or if the wiper blade chatters when running, wax or another material may be on the blade or windshield Clean the outside of the windshield with cleaning powder or an equivalent non abrasive cleaner. Your windshield is clean if beads do not form when rinsing with water.

CARE AND CLEANING OF THE EXTERIOR

Exterior Finish

The paint finish on your vehicle provides beauty, depth of colour, gloss retention and durability.

Washing your Vehicle

The best way to preserve your vehicle's finish is to keep it clean by frequent washings. Wash the vehicle in lukewarm or cold water.

Do not use hot water or wash your vehicle in the direct rays of the sun. Do not use strong soap or chemical detergent. All cleaning agents should be flushed promptly from the surface and not allowed to dry on the finish.

Daewoo vehicles are designed to operate under normal environmental conditions and to withstand the natural elements. However, unusual conditions, such as high pressure car washes, may cause water to enter inside the vehicle.

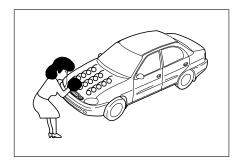
Polishing and Waxing

Periodic polishing and waxing is recommended to remove surface residue from your paint finish. Approved products are supplied through your Daewoo Dealer.

Protecting exterior bright metal parts

Bright metal parts should be cleaned regularly to keep their luster. Washing with water is all that is usually needed.

Use special care with aluminum trim. To avoid damaging protective trim, never use automotive or chrome polish, steam, or caustic soap to clean aluminum. A coating of wax, rubbed to a high polish, is recommended for all bright metal parts.



Cleaning aluminum wheels, rally wheels, and wheel covers

Preserve the original appearance of wheels or wheel covers by keeping them clean and free from build-up of road dirt and/or road salt. Regular cleaning is recommended. Do not use abrasive cleaners or cleaning brushes, as they could damage the finish.

CORROSION PROTECTION

Your car was designed to resist corrosion. Special materials and protective finishes were used on most parts of your car when it was built to help maintain a good appearance, strength and reliable operation. Some parts which normally are not visible(such as certain parts located in the engine compartment and the underbody of the vehicle) are such that surface rust will not affect their reliability. Therefore, corrosion protection is not needed or used on these parts.

Sheet metal damage

If your car is damaged and requires body panel repair or replacement, make sure the body repair shop applies proper anticorrosion material to the parts repaired or replaced so that corrosion protection is restored. (Also see "Finish damage" which follows.)

Foreign material deposits

Calcium chloride and other salts, ice melting agents, road oil and tar, tree sap, bird droppings, chemicals from industrial chimneys and other foreign matter may damage vehicle finishes if left on painted surface.

Prompt washing may not completely remove all of these deposits. Other cleaners may be needed.

When using chemical cleaners, be sure they are safe for use on painted surfaces

Finish damage

Any stone chips, fractures or deep scratches in the finish should be repaired promptly. Bare metal will corrode quickly and may develop into a major repair expense. Minor chips and scratches can be repaired with touch-up materials. Larger areas of finish damage can be corrected in your Dealer's body and paint shop.

Underbody maintenance

Corrosive materials used for ice and snow removal and dust control can collect on the underbody. If these materials are not removed, accelerated corrosion (rust) can occur on underbody parts such as fuel lines, frame, floor pan and the exhaust system even though they have been provided with corrosion protection.

At least every spring, flush these materials from the underbody with plain water. Take

care to clean any areas where mud and other debris can collect. Sediment packed in closed areas of the frame should be loosened before being flushed. If desired, your Daewoo Dealer can do this service for you.

A CAUTION

When an engine is washed, fuel, grease and oil residues are washed off. Therefore you should use only a filling station or a Daewoo Dealer who has oil separator equipment in the car wash bay.

Used engine oil, brake fluid, transmission fluid, antifreeze, batteries and tyres should be disposed of by using the local authorized waste disposal facilities, or have them disposed of by the vendor who is under a statutory obligation to do so when you replace them.

On no account must any of these items be placed in the household refuse bins or the fluids poured down the drains.

Everyone should be concerned about environmental protection.
Help by doing your share.

9

SPECIFICATION AND SERVICE DATA

OFFICIAL VEHICLE IDENTIFICATION DATA

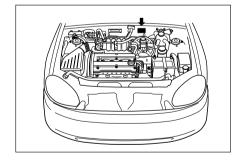
The vehicle identification number is stamped on the vehicle identification plate on the lefthand side of the cowl panel.

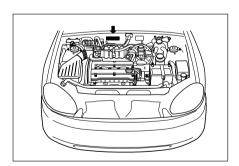
ENGINE NUMBER

right-hand side of the cylinder block.

CHASSIS NUMBER

The engine number is stamped on the front Chassis number is stamped at the middle of the cowl panel as shown in the figure.





LUBRICATION CHART

Lubrio	cant	Capacity	Service Interval	Classification
Engine oil	DOHC	3.75L	Change every 10,000km (6,000 miles) or 6 months. (But, under severe condition, change every 5,000km	API SJ (ILSAC GF-II) grade
SOHC		(including oil filter)	(3,000 miles) or 3 months.) (Oil filter element should be replaced at the same time)	SAE 5W-30, SAE 10W-30
Manual transmission oil		1.8L	Check every 10,000 km (6,000 miles) or 6 months and replenish if necessary. (Fluid change is not required)	SAE 80W (Cold area : SAE75W)
Brake/Clutch fluid		0.5L	Change every 30,000 km (18,000 miles) or 18 months. (But, under severe condition, change every 15,000km (9,000 miles) or 9 months)	DOT 3 or DOT 4
Power steering fluid*		1.0L	Check every 10,000 km (6,000 miles) or 6 months and replenish as necessary.	DEXRON® II D or DEXRON® III
Automatic transmission fluid *		10.0L (Complete overhaul)	The fluid and filter do not require changing. (But, under severe condition change the fluid every 75,000km (45,000 miles) or 4 years and fluid filter should be replaced at the same time)	DEXRON [®] III

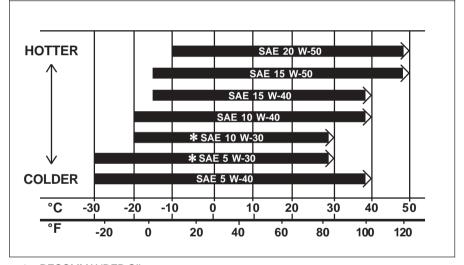
ENGINE OIL

API Classifications of Engine Oil

The American Petroleum Institute classifies engine oils according to their performance quality. Always use oil rated API-SJ (ILSAC GF-II) or better.

Engine

The viscosity should be selected according to outside temperature. Do not switch to a different viscosity in the event of brief temperature fluctuations.



*: RECOMMANDED OIL

SPECIFICATIONS (1.3 SOHC)

Items Model	3 door	4 door	5 door
Vehicle dimensions(mm)			
Overall length	4,074	4,237	4,074
Overall width	1,678	←	←
Overall height	1,432	←	←
Wheel base	2,520	←	←
Tread : front	1,405	←	←
rear	1,425	←	←
2. Weight(kg)			
Curb weight	1,005	1,030	1,015
Gross vehicle weight	1,595	←	←
Persons	5	←	←
3. Performance			
Maximum speed(km/h)	166	←	←
Gradeability(tan Ø)	0.43	←	←
Minimum turning radius(m)	4.9	←	←
4. Transaxle			
Gear ratio : 1st	3.545	←	←
2nd	1.952	←	←
3rd	1.276	←	←
4th	0.892	←	←
5th	0.707	←	←
reverse	3.333	←	←
Final drive ratio	4.176	←	←
	3.944	←	←

Items Model	3 door	4 door	5 door
5. Engine			
Total displacement(cc)	1,349	←	←
Bore x Stroke(mm)	76.5 x 73.4	←	←
Compression ratio	9.5 : 1	←	←
Maximum power(kw/rpm)	55 / 5,400	←	←
Maximum torque(N·m/rpm)	115 / 3,400	←	←
BTDC	10°	←	←
6. Tyre			
Size	155 / 80 R13	<u> </u>	
	175 / 70 R13	←	←
7. Fuel system	MPFI	←	←
Octane rating	RON 95, 91, 87, 83	←	←
Fuel tank(L)	48	←	←
8. Cooling system			
Coolant(L)	7.0	←	←
9. Lubricating			
Engine oil(L)	3.75	←	←
10. Electrical system			
Battery(V-AH)(MF)	12 - 55	←	←
Philippines Only	12 - 45	←	←
Alternator(V-A)			
General area	12 - 85	←	←
Starter(V-KW)			
M/T	12 - 0.8	←	←
A/T or Cold area	12 - 1.4	←	←

Items Model	3 door	4 door	5 door
11. Clutch Size(mm) (outside diameter x inside diameter x thickness)	184 x 127 x 7.65	←	←
12. Brake			
Front wheel	Disc	←	←
Rear wheel	Drum	\leftarrow	←
Booster(inch)	9"	\leftarrow	←
13. Steering system			
Туре	Rack & pinion	\leftarrow	←
Overall gear ratio			
w/manual steering	24.5 : 1	\leftarrow	←
w/power steering	16.12 : 1	\leftarrow	←
Wheel diameter(mm)	380	\leftarrow	←
Camber (°) FR	-1°10' ~ +20'	\leftarrow	←
RR	-2°10' ~ -1°10'	\leftarrow	←
Caster (°)			
w/manual steering	30' ~ 2°30'	\leftarrow	←
w/power steering	1°45' ~ 3°45'	\leftarrow	←
Toe-in (°) FR	0° ± 10 ′	\leftarrow	←
RR	-10' ~ +40'	\leftarrow	←

9-8 SPECIFICATION AND SERVICE DATA

SPECIFICATIONS (1.5 SOHC)

Model	3 (door	4 (door	5 (door
Items	Manual T/A	Auto T/A ¹⁾	Manual T/A	Auto T/A ¹⁾	Manual T/A	Auto T/A ¹⁾
Vehicle dimensions (mm)						
Overall length	4,074	←	4,237	←	4,074	←
Overall width	1,678	←	←	←	<u>←</u>	←
Overall height	1,432	←	←	←	←	←
Wheel base	2,520	←	←	←	←	←
Tread : front	1,405	←	←	←	←	←
rear	1,425	←	←	←	←	←
2. Weight (kg)						
Curb weight	1,011	1,047	1,036	1,072	1,021	1,057
Gross vehicle weight	1,595	←	←	←	←	←
Persons	5	←	←	←	←	←
3. Performance						
Maximum speed (km/h)	172	161	172	161	172	161
Gradeability (tan θ)	0.5	0.59	0.5	0.59	0.5	0.59
Minimum turning radius (m)	4.9	←	←	←	←	←
4. Transaxle						
Gear ratio : 1st	3.545	2.957	3.545	2.957	3.545	2.957
2nd	2.048	1.623	2.048	1.623	2.048	1.623
3rd	1.346	1.000	1.346	1.000	1.346	1.000
4th	0.971	0.682	0.971	0.682	0.971	0.682
5th	0.763	_	0.763	_	0.763	_
reverse	3.333	2.143	3.333	2.143	3.333	2.143
Final drive ratio	4.176	3.910	4.176	3.910	4.176	3.910

¹⁾ Not available in Euro Stage III countries.

Model	3 doc	or	4 0	door	5 0	loor
Items	Manual T/A	Auto T/A ¹⁾	Manual T/A	Auto T/A ¹⁾	Manual T/A	Auto T/A ¹⁾
5. Engine						
Total displacement(cc)	1,498	←	←	←	←	←
Bore x Stroke(mm)	76.5 x 81.5	←	←	←	←	←
Compression ratio	9.5 ± 0.2:1	←	←	←	←	←
Maximum power(kw/rpm)	63 / 5,800	←	←	←	←	\leftarrow
. , , ,	(63/5,400)2)	←	←	←	←	\leftarrow
Maximum torque(N·m/rpm)	130 / 3,400	\leftarrow	←	←	←	\leftarrow
	(130/3,200)2)	\leftarrow	\leftarrow	←	←	\leftarrow
BTDC	10°	\leftarrow	\leftarrow	←	←	\leftarrow
6. Tyre						
Size	175 / 70R13	\leftarrow	←	←	←	\leftarrow
7. Fuel system	MPFI	\leftarrow	\leftarrow	←	←	\leftarrow
Octane rating	RON 95,91,87,83	\leftarrow	\leftarrow	←	←	\leftarrow
Fuel tank(L)	48	\leftarrow	\leftarrow	←	←	\leftarrow
Cooling system						
Coolant(L)	7.0	\leftarrow	←	←	←	\leftarrow
Lubricating						
Engine oil(L)	3.75	\leftarrow	←	←	←	\leftarrow
Electrical system						
Battery(V-AH)(MF)	12 - 55	\leftarrow	←	←	←	←
Philippines Only	12 - 45	\leftarrow	←	←	←	\leftarrow
Alternator(V-A)						
General area	12 - 85	\leftarrow	←	←	←	\leftarrow

¹⁾ Not available in Euro Stage III countries.

²⁾ Euro Stage III countries.

Mod	el 3 o	door	4 c	loor	5 0	loor
Items	Manual T/A	Auto T/A ¹⁾	Manual T/A	Auto T/A ¹⁾	Manual T/A	Auto T/A ¹⁾
Starter(V-KW)						
M/T	12 - 0.8	←	←	\leftarrow	←	\leftarrow
A/T or Cold area	12 - 1.4	←	←	←	←	\leftarrow
11. Clutch						
Size(mm)	200x134x7.65		200x134x7.65		200x134x7.65	
(outside diameter x inside	•					
diameter x thickness)						
12. Brake						
Front wheel	Disc	←	←	\leftarrow	←	\leftarrow
Rear wheel	Drum	←	←	\leftarrow	←	\leftarrow
Booster(inch)	9"	←	\leftarrow	\leftarrow	←	\leftarrow
13. Steering system						
Type	Rack & pinion	←	←	\leftarrow	←	\leftarrow
Overall gear ratio						
w/power steering	16.12 : 1	←	←	\leftarrow	←	\leftarrow
Wheel diameter(mm)	380	←	←	\leftarrow	←	\leftarrow
\	R -1°10'~+20'	←	←	\leftarrow	←	\leftarrow
	R -2°10'~-1°10'	←	←	\leftarrow	←	\leftarrow
Caster (°)						
w/power steering	1°45'~3°45'	←	←	\leftarrow	←	\leftarrow
` '	R 0°±10'	←	←	\leftarrow	←	\leftarrow
R	R -10'~+40'	←	\leftarrow	\leftarrow	←	\leftarrow

¹⁾ Not available in Euro Stage III countries.

SPECIFICATIONS (1.6 DOHC)

Model	3 (door	4 (door	5 (door
Items	Manual T/A	Auto T/A	Manual T/A	Auto T/A	Manual T/A	Auto T/A
Vehicle dimensions(mm)						
Overall length	4,074	←	4,237	←	4,074	←
Overall width	1,678		·		l '	
	· '	←	←	←	←	←
Overall height	1,432	←	←	←	←	←
Wheel base	2,520	←	←	\leftarrow	←	←
Tread : front	1,405	←	←	\leftarrow	←	←
rear	1,425	←	←	\leftarrow	←	←
2. Weight(kg)						
Curb weight	1,031	1,067	1,056	1,092	1,041	1,077
Gross vehicle weight	1,595	←	←	\leftarrow	←	←
Persons	5	←	←	\leftarrow	←	←
3. Performance						
Maximum speed(km/h)	180	173	180	173	180	173
Gradeability(tan θ)	0.5	0.59	0.5	0.59	0.5	0.59
Minimum turning radius(m)	4.9	←	←	←	←	←
4. Transaxle		·				
Gear ratio: 1st	3.545	2.957	3.545	2.957	3.545	2.957
2nd	2.158	1.623	2.158	1.623	2.158	1.623
3rd	1.478	1.000	1.478	1.000	1.478	1.000
4th	1.129	0.682	1.129	0.682	1.129	0.682
5th	0.886	_	0.886	_	0.886	_
reverse	3.333	2.143	3.333	2.143	3.333	2.143
Final drive ratio	3.722	3.910	3.722	3.910	3.722	3.910

Model	3 do	or	4 0	door	5.0	loor
Items	Manual T/A	Auto T/A	Manual T/A	Auto T/A	Manual T/A	Auto T/A
5. Engine						
Total displacement (cc)	1,598	\leftarrow	←	\leftarrow	←	\leftarrow
Bore x Stroke (mm)	79.0 x 81.5	\leftarrow	←	←	←	←
Compression ratio	9.5 : 1	←	←	←	←	←
Maximum power (kw/rpm)	78.0 / 6,000	←	←	←	←	←
Maximum torque (N·m/rpm)	146.0 / 3,400	←	←	←	←	←
BTDC	10°	\leftarrow	←	←	←	←
6. Tyre	10	_				_
Size	185 / 60R14	\leftarrow	←	←	←	\leftarrow
7. Fuel system	MPFI	←	←	←	←	←
Octane rating	RON 95,91,87,83	←	←	←	←	←
Fuel tank (L)	48	←	←	←	←	←
8. Cooling system	40	<u> </u>	_	<u> </u>		<u> </u>
	7.0	_				
Coolant (L) 9. Lubricating	7.0	\leftarrow	←	\leftarrow	←	\leftarrow
	3.75			_		
Engine oil (L)	3.75	\leftarrow	←	\leftarrow	←	\leftarrow
10. Electrical system	40 55			_		
Battery (V-AH) (MF)	12 - 55		←		←	←
Philippines Only	12 - 45	\leftarrow	←	\leftarrow	←	\leftarrow
Alternator(V-A)	40.05					
General area	12 - 85	\leftarrow	←	\leftarrow	←	\leftarrow
Starter(V-KW)	10.00					
MT	12 - 0.8	\leftarrow	←	\leftarrow	←	\leftarrow
A/T or Cold area	12 - 1.4	\leftarrow	←	\leftarrow	←	\leftarrow

N	1odel	3 0	door	4 0	door	5 0	loor
Items		Manual T/A	Auto T/A	Manual T/A	Auto T/A	Manual T/A	Auto T/A
11. Clutch							
Size(mm)		215x145x7.65		215x145x7.65		215x145x7.65	
(outside diameter x ins	ide						
diameter x thickness)							
12. Brake							
Front wheel		Disc	\leftarrow	←	\leftarrow	←	\leftarrow
Rear wheel		Drum	\leftarrow	←	\leftarrow	←	\leftarrow
Booster(inch)		9"	\leftarrow	←	\leftarrow	←	\leftarrow
13. Steering system							
Type		Rack & pinion	\leftarrow	←	\leftarrow	←	\leftarrow
Overall gear ratio							
w/power steering		16.12 : 1	\leftarrow	←	\leftarrow	←	←
Wheel diameter(mm)		380	\leftarrow	←	\leftarrow	←	←
Camber (°)	FR	-1°10'~+20'	\leftarrow	←	\leftarrow	←	←
	RR	-2°10'~-1°10'	\leftarrow	←	\leftarrow	←	←
Caster (°)							
w/power steering		1°45'~3°45'	\leftarrow	←	←	←	\leftarrow
Toe-in (°)	FR	0°±10'	\leftarrow	←	←	←	\leftarrow
. ,	RR	-10'~+40'	\leftarrow	←	\leftarrow	←	\leftarrow

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LANOS OWNER'S MANUAL

ISSUED BY OVERSEAS TECH. SERVICE TEAM DAEWOO MOTOR CO., LTD.

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