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## **FOREWORD**

This manual is an essential part of your vehicle and should remain with the vehicle when resold or otherwise transferred to a new owner or operator. Please read this manual carefully before operating your new MARUTI SUZUKI and review the manual from time to time. It contains important information on safety, operation and maintenance. You are invited to avail the three Free Inspection Services as described in the manual. Three free inspection coupons are attached to this manual. Please show this manual to your dealer workshop while you take your MARUTI SUZUKI for any Service.

To prolong the life of your vehicle and reduce maintenance cost, the periodic maintenance must be carried out according to "PERIODIC MAINTENANCE SCHEDULE" described in "INSPECTION AND MAINTENANCE" section of this manual. It is essential for preventing trouble and accidents to ensure your satisfaction and safety.

Daily inspection and care as per "DAILY INSPECTION CHECKLIST" described in the "OPERATING YOUR VEHICLE" section of this manual is essential for prolonging the life of the vehicle and for safe driving.

Vehicle and the available features/accessories therein should be used and plied by the owner/user in accordance with the applicable legal requirements.

MARUTI SUZUKI INDIA LIMITED believes in conservation and protection of Earth's natural resources.

To that end, we encourage every vehicle owner to recycle, trade-in or properly dispose of, as appropriate, used Engine Oil, coolant and other fluids, batteries and tyres etc.

### **MARUTI SUZUKI INDIA LIMITED**

All information in this manual is based on the latest product information available at the time of publication. Due to improvements or other changes, there may be discrepancies between information in this manual and your vehicle. MARUTI SUZUKI INDIA LIMITED reserves the right to make production changes at any time, without notice and without incurring any obligation to make the same or similar changes to vehicles previously built or sold.

This vehicle may not comply with 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.

## IMPORTANT

### ⚠ WARNING/ ⚠ CAUTION/NOTICE/ NOTE

Please read this manual and follow its instructions carefully. To emphasize special information, the symbol and the words **WARNING**, **CAUTION**, **NOTICE** and **NOTE** have special meanings. Pay particular attention to messages highlighted by these signal words:

#### ⚠ WARNING

Indicates a potential hazard that could result in death or serious injury.

#### ⚠ CAUTION

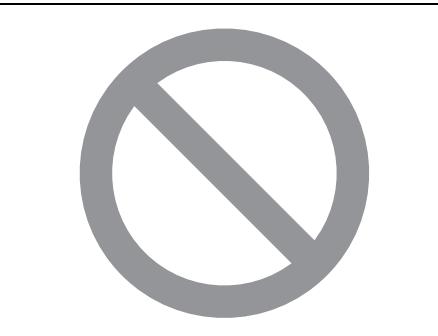
Indicates a potential hazard that could result in minor or moderate injury.

#### NOTICE

Indicates a potential hazard that could result in vehicle damage.

#### NOTE:

Indicates special information to make maintenance easier or instructions clearer.



75F135

The circle with a slash in this manual means "Don't do this" or "Don't let this happen".

#### NOTE:

- Words like car, model/variant are invariably used in this manual to denote the "Vehicle".
- Pictorial representations used in this manual are for reference purposes only.

## MODIFICATION WARNING

### ⚠ WARNING

Do not modify your vehicle. Modification could adversely affect safety, handling, performance, or durability and may violate governmental regulations. In addition, damage or performance problems resulting from modification shall not be covered under warranty.

### NOTICE

Improper installation of mobile communication equipment such as cellular telephones, CB (Citizen's Band) radios may cause electronic interference with your vehicle's ignition system, resulting in vehicle performance problems. Consult your Maruti Suzuki authorised workshop or qualified service technician for advice on installing such mobile communication equipment.

### NOTICE

The diagnostic connector of your vehicle is prepared only for the specific diagnostic tool for inspection and service purpose. Connecting any other tool or device may interfere with electronic parts operations and cause running out of batteries.

# “WARNING”



**Vehicle may break-down, meet with an accident or catch fire due to**

1. Installation of
  - High wattage bulbs
  - Non genuine lamps / horns
  - Modified suspension / wheels
  - Non genuine parts / accessories etc.
2. Retrofitment of LPG / CNG fuel systems/kits.
3. Usage of domestic LPG.
4. Short circuiting due to tampering of wiring harness.

**CAUTION: DO NOT STORE OR CARRY INFLAMMABLE MATERIALS IN THE VEHICLE.**



**Avoid driving into or starting the vehicle in a heavily water logged area. Vehicle may break-down or engine may fail due to**

1. Water entry into the engine (which may lead to hydrostatic lock).
2. Short circuiting of the electrical systems.

**If the vehicle is stuck in deep water, do not start / crank the vehicle until the level of water drops below the level of exhaust pipe.**

**NOTE:**  
**IF THE VEHICLE IS SUBMERGED IN WATER, REPORT TO THE NEAREST AUTHORIZED WORKSHOP.**

# **“CAUTION”**

1. Retro-fitment of LPG / CNG kit may deteriorate vehicle performance, reduce engine & engine related component's life and also warranty will be null and void for such vehicles.
2. Do not use domestic LPG/LPG cylinder for your factory fitted LPG vehicles.
3. Usage of domestic LPG for running vehicles is prohibited as per law.
4. Do not remove company fitted LPG/CNG kit to install some other kit. It may affect vehicle performance and may cause fire.
5. Drive slowly on wet roads. Tires may slip while braking at higher speeds due to aquaplaning.(reduced contact area between tire and road due to presence of water)
6. Do not leave engine running in garages or confined areas, with passengers inside. This may result in accumulation of carbon-monoxide in cabin and may lead to suffocation or breathing problems.
7. Do not park vehicle on dry leaves or grass. This may lead to fire due to hot catalytic converter, igniting the dry leaves/grass.
8. If the vehicle is equipped with CNG/LPG, ensure availability of fire extinguisher in the vehicle all the time.
9. Always wear seat belt at all the times.
10. Do not use mobile phone while driving.
11. Avoid Smoking in the car, live bud thrown in car may cause fire.
12. Do not put any body part under the vehicle when it is supported on a Jack.
13. Do not use non-genuine accessories in your vehicle.
14. Do not fit accessories from unauthorized workshops/sources.
15. Usage of non-approved electrical accessories in your vehicle may result in spark, fire or personal injury.
16. Do not use camphor, incense sticks inside cabin room. Doing so may cause fire.
17. Avoid usage of cellular phones while refueling. Electric current and/or electronic interference from cellular phones can potentially ignite fuel vapors and cause fire.
18. Avoid entry inside vehicle immediately once after you have begun refueling. You can generate a build up of static electricity by touching, rubbing or sliding against any item or fabric capable of producing static electricity. Static electricity discharge can ignite fuel vapors and may causing a fire.
19. Do not check the engine room / open the hood near the fire area (Outside the vehicle). Fuel, washer fluid, etc. are flammable oils that may cause fire.
20. Avoid driving when vehicle has met with an accident . Before driving, Please contact with authorized MSIL dealership.

<b>VIN:</b>														
<b>MODEL:</b>				<b>OWNER NAME &amp; ADDRESS</b>										
<b>VARIANT:</b>														
<b>COLOUR:</b>														
<b>ENGINE NO.:</b>				<b>CONTACT NO.</b>										
<b>KEY NO.:</b>				<b>E-mail ID:</b>										
<b>INVOICE DATE:</b>				<b>SELLING DEALER NAME &amp; CODE</b>										
<b>ODOMETER READING</b>	KM													
<b>REGISTRATION NO.:</b>														
<b>BATTERY MAKE:</b>				<b>DEALER SHOWROOM ADDRESS &amp; CONTACT NO. (STAMP)</b>										
<b>BATTERY NO.:</b>														
<b>BATTERY BATCH</b>														
<b>TYRE</b>	<b>MAKE</b>	<b>BATCH CODE</b>	<b>CONTACT NO. FOR SERVICE APPOINTMENT &amp; SUPPORT</b>											
Front Right														
Front Left														
Rear Right														
Rear Left														
Spare														
<p>For any assistance with regard to our product, please contact General Manager/Works Manager at any of our Dealer or Authorised workshop. For additional enquiry, you may contact our Regional Office or Service Department. The addresses and phone numbers are given in Service Network section of this Manual.</p>														

**CUSTOMER SERVICE MAINTENANCE RECORD (to be filled by customer)**

INSPECTION SCHEDULE	DATE OF SERVICE	MILEAGE (KM)	NAME OF SERVICING WORKSHOP
1 <sup>st</sup> Free inspection service - 1000 KM / 1 Months			
2 <sup>nd</sup> Free inspection service - 5000 KM / 6 Months			
3 <sup>rd</sup> Free inspection service - 10000 KM / 12 Months			
1 <sup>st</sup> Paid inspection service - 20000 KM / 24 Months			
2 <sup>nd</sup> Paid inspection service - 30000 KM / 36 Months			
3 <sup>rd</sup> Paid inspection service - 40000 KM / 48 Months			
4 <sup>th</sup> Paid inspection service - 50000 KM / 60 Months			
5 <sup>th</sup> Paid inspection service - 60000 KM / 72 Months			
6 <sup>th</sup> Paid inspection service - 70000 KM / 84 Months			
7 <sup>th</sup> Paid inspection service - 80000 KM / 96 Months			
8 <sup>th</sup> Paid inspection service - 90000 KM / 108 Months			
9 <sup>th</sup> Paid inspection service - 100000 KM / 120 Months			
10 <sup>th</sup> Paid inspection service - 110000 KM / 132 Months			
11 <sup>th</sup> Paid inspection service - 120000 KM / 144 Months			
12 <sup>th</sup> Paid inspection service - 130000 KM / 156 Months			

**Maruti Suzuki Network can be viewed by installing below Mobile Apps:**



**Maruti Suzuki Rewards** app ensures a hassle free car ownership experience. Get easy access to all the services and information you need by downloading the app



**1ST. FREE INSPECTION COUPON**

(Customer's copy) (1,000 KM or 1 MONTH)

Model Name							
Model Code*							
VIN							
Engine No.							
Mileage							
Invoice Date	D	D	M	M	Y	Y	
Date of Inspection	D	D	M	M	Y	Y	
Registration No.							
Customer Name							
Ph. No.							
Service workshop / MASS Code (fill below)							
				-			

**COST OF MATERIALS AND CONSUMABLES TO BE BORNE BY CUSTOMER**

Workshop In charge Signature
---------------------------------

For periodic maintenance schedule,  
refer to "Inspection and Maintenance"  
section of this manual

**1ST. FREE INSPECTION COUPON**

(Selling dealer copy) (1,000 KM or 1 MONTH)

Model Name							
Model Code*							
VIN							
Engine No.							
Mileage							
Invoice Date	D	D	M	M	Y	Y	
Date of Inspection	D	D	M	M	Y	Y	
Registration No.							
Customer Name							
Ph. No.							
Service workshop / MASS Code (fill below)							
				-			

**COST OF MATERIALS AND CONSUMABLES TO BE BORNE BY CUSTOMER**

Workshop In charge Signature
---------------------------------

**1ST. FREE INSPECTION COUPON**

(Servicing W/S copy) (1,000 KM or 1 MONTH)

Model Name							
Model Code*							
VIN							
Engine No.							
Mileage							
Invoice Date	D	D	M	M	Y	Y	
Date of Inspection	D	D	M	M	Y	Y	
Registration No.							
Customer Name							
Ph. No.							
Service workshop / MASS Code (fill below)							
				-			

**COST OF MATERIALS AND CONSUMABLES TO BE BORNE BY CUSTOMER**

Workshop In charge Signature
---------------------------------

**1ST. FREE INSPECTION COUPON**

(Servicing W/S copy) (1,000 KM or 1 MONTH)

Stamp of Selling dealer  
(Code & Full Address)**1ST. FREE INSPECTION COUPON**

(Selling dealer copy) (1,000 KM or 1 MONTH)

Stamp of Selling dealer  
(Code & Full Address)**1ST. FREE INSPECTION COUPON**

(Customer's copy) (1,000 KM or 1 MONTH)

Stamp of Selling dealer  
(Code & Full Address)**For Servicing Workshop**

1. Please Fill up Model codes correctly.
2. Please fill up Complete VIN.
3. Please fill up customer name and Phone No. details legibly and correctly for the latest owner.
4. Free service coupon of selling dealer not operational at present, should be sent to MSIL on monthly basis.

FOR BAR CODE

Service Division  
Maruti Suzuki India Limited**For Servicing Workshop**

1. Please Fill up Model codes correctly.
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FOR BAR CODE

Service Division  
Maruti Suzuki India Limited

## 2ND. FREE INSPECTION COUPON

(Customer's copy) (5,000 KM or 6 MONTHS)

Model Name							
Model Code*							
VIN							
Engine No.							
Mileage							
Invoice Date	D	D	M	M	Y	Y	
Date of Inspection	D	D	M	M	Y	Y	
Registration No.							
Customer Name							
Ph. No.							
Service workshop / MASS Code (fill below)							
			-		-		

### COST OF MATERIALS AND CONSUMABLES TO BE BORNE BY CUSTOMER

Workshop In charge  
Signature

For periodic maintenance schedule,  
refer to "Inspection and Maintenance"  
section of this manual

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(Selling dealer copy) (5,000 KM or 6 MONTHS)

Model Name							
Model Code*							
VIN							
Engine No.							
Mileage							
Invoice Date	D	D	M	M	Y	Y	
Date of Inspection	D	D	M	M	Y	Y	
Registration No.							
Customer Name							
Ph. No.							
Service workshop / MASS Code (fill below)							
			-		-		

### COST OF MATERIALS AND CONSUMABLES TO BE BORNE BY CUSTOMER

Workshop In charge  
Signature



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(Servicing W/S copy) (5,000 KM or 6 MONTHS)

Model Name							
Model Code*							
VIN							
Engine No.							
Mileage							
Invoice Date	D	D	M	M	Y	Y	
Date of Inspection	D	D	M	M	Y	Y	
Registration No.							
Customer Name							
Ph. No.							
Service workshop / MASS Code (fill below)							
			-		-		

### COST OF MATERIALS AND CONSUMABLES TO BE BORNE BY CUSTOMER

Workshop In charge  
Signature



## **2ND. FREE INSPECTION COUPON**

(Servicing W/S copy) (5,000 KM or 6 MONTHS)

Stamp of Selling dealer  
(Code & Full Address)

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3. Please fill up customer name and Phone No. details legibly and correctly for the latest owner.
4. Free service coupon of selling dealer not operational at present, should be sent to MSIL on monthly basis.

FOR BAR CODE

Service Division  
Maruti Suzuki India Limited

### 3RD. FREE INSPECTION COUPON

(Customer's copy) (10,000 KM or 12 MONTHS)

Model Name							
Model Code*							
VIN							
Engine No.							
Mileage							
Invoice Date	D	D	M	M	Y	Y	
Date of Inspection	D	D	M	M	Y	Y	
Registration No.							
Customer Name							
Ph. No.							
Service workshop / MASS Code (fill below)							
	-		-		-		

#### COST OF MATERIALS AND CONSUMABLES TO BE BORNE BY CUSTOMER

Workshop In charge  
Signature

For periodic maintenance schedule,  
refer to "Inspection and Maintenance"  
section of this manual

### 3RD. FREE INSPECTION COUPON

(Selling dealer copy) (10,000 KM or 12 MONTHS)

Model Name							
Model Code*							
VIN							
Engine No.							
Mileage							
Invoice Date	D	D	M	M	Y	Y	
Date of Inspection	D	D	M	M	Y	Y	
Registration No.							
Customer Name							
Ph. No.							
Service workshop / MASS Code (fill below)							
	-		-		-		

#### COST OF MATERIALS AND CONSUMABLES TO BE BORNE BY CUSTOMER

Workshop In charge  
Signature



### 3RD. FREE INSPECTION COUPON

(Servicing W/S copy) (10,000 KM or 12 MONTHS)

Model Name							
Model Code*							
VIN							
Engine No.							
Mileage							
Invoice Date	D	D	M	M	Y	Y	
Date of Inspection	D	D	M	M	Y	Y	
Registration No.							
Customer Name							
Ph. No.							
Service workshop / MASS Code (fill below)							
	-		-		-		

#### COST OF MATERIALS AND CONSUMABLES TO BE BORNE BY CUSTOMER

Workshop In charge  
Signature



### **3RD. FREE INSPECTION COUPON**

(Servicing W/S copy) (10,000 KM or 12 MONTHS)

Stamp of Selling dealer  
(Code & Full Address)

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## **WARRANTY POLICY**

Maruti Suzuki India Limited (hereinafter called "Maruti Suzuki"), warrants that each new Maruti Suzuki vehicle distributed in India by Maruti Suzuki and sold by a Maruti Suzuki authorised dealer will be free, under normal use and service, from any defects in material and workmanship at the time of manufacture SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS:

**(1) Qualification:**

To qualify for this warranty the vehicle must be delivered by a Maruti Suzuki authorised dealer and set-up, and serviced by a Maruti Suzuki authorised workshop.

**(2) Term:**

**The term of the warranty shall be twenty-four (24) months or 40,000 kilometers (whichever occurs first) from the date of invoice to the first owner.**

**(3) Maruti Suzuki Warranty Obligation:**

If any defect(s) should be found in a Maruti Suzuki vehicle within the term stipulated above, Maruti Suzuki's only obligation is to repair or replace at its sole discretion any part shown to be defective, with a new part or the equivalent at no cost to the owner for parts or labour, when Maruti Suzuki acknowledges that such a defect is attributable to faulty material or workmanship at the time of manufacture. Such defective parts, which have been replaced, will become the property of Maruti Suzuki. The owner is responsible for any repair or replacements which are not covered by this warranty. The decision of Maruti Suzuki shall be final & binding.

**(4) Limitation:**

This warranty shall not apply to:

- (a) Normal maintenance service required other than the three free services, including without limitation, oil and fluid changes, Consumables, headlight aiming, fastener retightening, wheel balancing, wheel alignment and tyre rotation, cleaning of injectors, adjustments of clutch and valve clearance.
- (b) The normal wear of parts including without limitation, bulbs, tyres\* and tubes, spark plugs, belts, hoses, filters, wiper blades, brushes, contact points, fuses, clutch disc, brake shoes, brake pads, cable and all rubber parts (except oil seal and glass run).
- (c) Any vehicle which has been used for competition, rallies or racing.
- (d) Any repairs or replacement arising from accidents or collision.
- (e) Any defect/ damage caused by misuse, negligence, abnormal use, insufficient care, vandalism, theft, riot, fire, flooding - not limited to entry of water in the components resulting in engine seizure, hydrostatic lock, etc. or external damages to the body/ components.
- (f) Any damage resulting due to usage of adulterated fuel/ lubricants/ oil/ coolant/ fluids/ polishing products and fuel/ lubricants/ oil/ coolant/ fluids used other than those specified in the Owner's Manual.
- (g) Any vehicle which has been modified or altered, including without limitation, the installation of performance accessories, enlargements of lights, other changes and external/ consequential reasons.
- (h) Any vehicle on which parts or accessories not approved by Maruti Suzuki (Non-MSGA, Non-MSGP) have been used.

(\* - If there is a complaint related to tyre, the customer may contact respective tyre manufacturer.)

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- (i) Any vehicle which has not been operated in accordance with the operating instructions in this Owner's Manual and Service Booklet.
  - (j) Any vehicle which has not received the service inspections prescribed in this Owner's Manual and Service Booklet.
  - (k) Any vehicle which has been assembled, disassembled, adjusted or repaired by other than a Maruti Suzuki authorised workshop.
  - (l) Any vehicle which has been used for purposes other than what it was designed for.
  - (m) Any damage or deterioration caused by airborne fallout, industrial fallout, acid rain, hail or hail storm, wind storm, lightning, bird droppings, rodents bite / rat bite and such other thing that result in damage to the vehicle.
  - (n) Insignificant defects / noise which do not affect the function of the vehicle including without limitation, sound, vibration and fluid seep.
  - (o) Any natural wear and tear including without limitation, ageing, wear & tear or deterioration such as discoloration, fading, deformation or blurring and fabric discoloration.
  - (p) Installation and usage of domestic LPG gas/LPG Cylinder.
  - (q) V-belts, hoses and gas leaks.
  - (r) Any vehicle retrofitted with LPG/CNG kits.
  - (s) Repainting including patchwork, bodywork and mouldings and interior trims.
  - (t) Corrosion, rusting of body parts and/ or components.
  - (u) Any vehicle on which odometer has been changed unauthorisedly or odometer reading has been modified/ tampered with/ or not matching the service records.
  - (v) The damage(s) caused to the vehicle being unattended despite knowledge that the defect exists and ignorance by the owner/ user of the vehicle.
  - (w) Any damage(s) caused to vehicle including battery/ tyre due to parking of the vehicle in idle condition for long duration of time periods.
  - (x) Any vehicle on which the retro-fitment is not authorized and/ or type approved as per the standards prescribed by the relevant authority including but not limited to Automotive Standards of India.
  - (y) Any vehicle on which the retro-fitment is such which directly or indirectly causes any damage to the vehicle or affects the functions of the vehicle in any manner whatsoever.

**(5) Extent of Warranty:**

This warranty is the entire written warranty given by Maruti Suzuki for Maruti Suzuki vehicles and no dealer or its or his agent or employee is authorised to extend or enlarge this warranty and no dealer or its or his agent or employee is authorised to make any oral warranty or representation or assurance on behalf of Maruti Suzuki.

Maruti Suzuki reserves the right to add any improvements or change the design of any model at any time with no obligation to make the same changes on units previously sold.

**(6) Warranty Service:**

To obtain warranty service, the complete vehicle must be presented at the owner's expenses to Maruti Suzuki authorised workshop.

The customer shall be responsible for his belongings or accessories fitted in the vehicle at the time of presenting the vehicle for service and no claim shall be entertained in any manner under any circumstances.

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## (7) Owner's Warranty Obligations:

<b>NOTICE</b>
<p>The owner shall not use the vehicle in a damaged condition and report the same immediately to the nearest Maruti Suzuki authorized workshop. This would result in early inspection and repair of the vehicle and any possible harm to the person or aggravation of damage to the vehicle can be prevented.</p>

The owner shall not use the vehicle in a damaged condition and report the same immediately to the nearest Maruti Suzuki authorized workshop. This would result in early inspection and repair of the vehicle and any possible harm to the person or aggravation of damage to the vehicle can be prevented.

It is responsibility of each owner to:

- Have performed, at his own expenses, by a Maruti Suzuki authorised workshop all the service inspections specified in the Maruti Suzuki "Owner's Manual and Service Booklet" and maintain adequate proof that such service inspections have been performed.
- Update and maintain the 'Customer service maintenance records' page in the "Owner's Manual and Service Booklet", whenever service inspection or warranty service is carried out on the vehicle in a Maruti Suzuki authorised workshop.
- Present the Maruti Suzuki "Owner's Manual and Service Booklet" to the Maruti Suzuki authorised workshop whenever requesting service inspections or warranty service.

If the "Owner's Manual and Service Booklet" should be lost or destroyed the owner should consult the Maruti Suzuki authorised dealer from whom the vehicle was purchased for instructions concerning replacement of the "Owner's Manual and Service Booklet".

## (8) Disclaimer of Consequential Damage:

Maruti Suzuki assumes no responsibility for loss of vehicle, loss of time, inconvenience or any other indirect incidental or consequential damage resulting from the vehicle not being available to the owner because of any defect covered by this warranty.

## (9) Change of Owner

Even if ownership of the vehicle changes, the remaining warranty period is effective for the new owner.

This warranty is applicable only in India and not transferable to any other country.

**NOTE:**

*Notwithstanding the warranty obligations, Maruti Suzuki may reuse reworked (refurbished) parts for undertaking rectification of recalled vehicles in terms of applicable laws.*

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## EMISSION WARRANTY POLICY

Maruti Suzuki offers the Emission Warranty on all Maruti Suzuki vehicles (apart from the Regular Warranty and will run parallel to the regular product warranty) only in four metropolitan cities (**New Delhi, Kolkata, Mumbai and Chennai**) with effect from July 1st, 2001.

### Terms:

The Emission Warranty will be applicable for **80,000 kms or 3 years** (Whichever comes earlier) from the date of invoice to the first owner. The remaining warranty terms will be valid in case of any change in ownership provided the production of all valid documents.

### Conditions:

1. Under Emission Warranty, Warranty claims will be admitted for a prima-facie examination, in case vehicle fails to meet the Emission Standard as specified in sub rule (2) of rule no. 115 of Central Motor Vehicles Rules (CMVR), 1989.
2. The warranty claims will only be accepted after examination carried out by Maruti Suzuki or Maruti Suzuki authorised workshop which leads to firm conclusions that the
  - a) Original settings have not been tampered in any case.
  - b) Part (as given in Annexure - A) has a manufacturing defect.
  - c) Vehicle is unable to meet the Emission Standards (as given in 1.), inspite of the vehicle having been maintained and used in accordance with the instructions as specified in Owner's Manual and Service Booklet and the used fuel and different oils (Engine oil, Transmission oil, Brake oil etc.) are also as per specification.
3. The method of examination for deciding the warranty of the parts will be at the sole discretion of Maruti Suzuki and Maruti Suzuki authorised workshop and results of the examination will be final and binding. If after examination, the warrantable condition is not established, Maruti Suzuki and Maruti Suzuki authorised workshop has the right to charge all, or part of the cost of such examination.
4. Under Emission Warranty, the parts (as given in Annexure - A) will be changed free of cost, but the consumables will be charged as per actual.
5. If the part covered under Emission Warranty or the associated parts, are not independently replaceable, on account of these being integral parts of a complete assembly, Maruti Suzuki and Maruti Suzuki authorised workshop will have the sole discretion to replace either the entire assembly or by using some of the parts of the system through suitable repairs or modifications.
6. Any consequential repairs or replacement of parts which may be found necessary to establish compliance of Emission Warranty, will not be considered under warranty, unless the same is under product warranty. The consumable will be charged as per actual under such repair or replacement.
7. Maruti Suzuki will not be responsible for the cost of transportation of the vehicle to the nearest Maruti Suzuki authorised workshop or any loss due to non-availability of the vehicle during the period of lodging of a warranty claim and examination and/or repair by Maruti Suzuki authorised workshop.
8. Maruti Suzuki will not be responsible for any penalty that may be charged by statutory authorities on account of failure to comply with the EMISSION STANDARDS.
9. Emission Warranty will not be affected by the change of owner, provided all the documents are available.

- 
10. All maintenance actions (as specified in the Owner's Manual and Service Booklet) need to be followed and recorded in the manual for emission warranty.
  11. The customer needs to produce the PUC (Pollution Under Control) certificate valid for the period preceding the test during which the failure is discovered. The receipts (for the maintenance of the vehicle as per specification in Owner's Manual and Service Booklet from the date of original purchase of the vehicle) will also be required.

#### **Conditions under which the Emission Warranty is not APPLICABLE**

1. In the absence of valid PUC certificate.
2. Vehicle not serviced from Maruti Suzuki authorised workshop as per the schedule specified in the Owner's Manual.
3. Vehicle subjected to abnormal use (accident, motor race, rallies or for the purpose of establishing the records etc).
4. Use of non MSGP (Maruti Suzuki Genuine Part).
5. Vehicle that has been tampered with.
6. Tampering with odometer so that the actual kilometer reading cannot be determined.
7. Use of adulterated fuel and/or unspecified oils (Engine oil, Transmission oil and Brake oil etc).

#### **Annexure - A**

List of parts (if applicable) covered under Emission Warranty

1. Fuel Injection Assembly, Pressure Regulator, Throttle Body Assembly.
2. Electronic Control Module (ECM).
3. Intake Manifold.
4. EGR valve.
5. Ignition Coil.
6. Canister Assembly.
7. Vapour Liquid Seperator.
8. Fuel Tank and Filler Cap.
9. PCV (Positive Crankcase Ventilation) Valve.
10. Oil Filler Cap.
11. Catalytic Convertor.
12. Exhaust Manifold.
13. All Fuel Injection System related Sensors.
14. High Pressure Fuel Pump.
15. Glow Plug.
16. Glow Plug Controller.



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**FUEL RECOMMENDATION**

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**FUEL RECOMMENDATION**

**1**

Fuel Recommendation ..... 1-1

**53MH0-74E**

## FUEL RECOMMENDATION

### Fuel Recommendation

To avoid damaging the catalytic converter, you must use unleaded petrol with an octane number (RON) or 91 or higher. Do not use petrol with additives containing metal.

#### Petrol/Ethanol blends

Blends of unleaded gasoline and ethanol (grain alcohol), also known as gasohol, are commercially available in some areas. Blends of this type may be used in your vehicle if they are no more than 10% ethanol. Make sure this gasoline-ethanol blend has octane ratings no lower than those recommended for gasoline.

#### NOTE:

*If you are not satisfied with the driveability or fuel economy of your vehicle when you are using a gasoline/alcohol blend, you should switch back to unleaded gasoline containing no alcohol.*

#### Petrol containing MTBE

Unleaded petrol containing MTBE (methyl tertiary butyl ether) may be used in your vehicle in the MTBE content is not greater than 15%. This oxygenated fuel does not contain alcohol.

#### CAUTION

Use of spurious, low quality, adulterated fuel can cause damage to the engine & engine auxiliaries, affect functioning of engine and degrade engine performance including but not limited to engine seizure.

#### NOTICE

- The fuel tank has an air space to allow for fuel expansion in hot weather. If you continue to add fuel after the filler nozzle has automatically shut off or an initial blowback occurs, the air chamber will become full. Exposure to heat when fully fuelled in this manner will result in leakage due to fuel expansion. To prevent such fuel leakage, stop filling after the filler nozzle has automatically shut off, or when initial vent blowback occurs, if using an alternative non-automatic system.
- Be careful not to spill fuel containing alcohol while refueling. If fuel is spilled on the vehicle body, wipe it up immediately. Fuels containing alcohol can cause paint damage, which is not covered under the New Vehicle Limited Warranty.

## **BEFORE DRIVING**

### **BEFORE DRIVING**

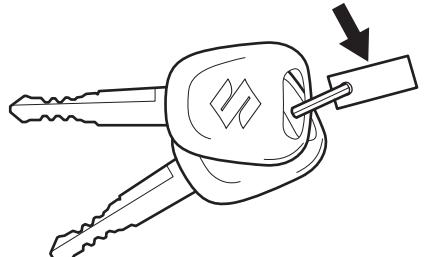
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**2**

## BEFORE DRIVING

### Keys

#### EXAMPLE



51KM024

Your vehicle comes with a pair of keys. The key(s) may or may not be equipped with a transmitter depending on model variant. Keep the spare key in a safe place. One key can open all of the locks on the vehicle.

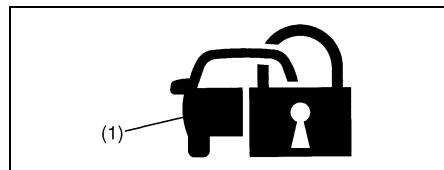
The key identification number is stamped on a metal tag provided with the keys or on the keys. Keep the tag (if equipped) in a safe place. If you lose your keys, you will need this number to have new keys made. Write the number below for your future reference.

KEY NUMBER:

### Immobilizer System

This system is designed to help prevent vehicle theft by electronically disabling the engine starting system.

The engine can be started only with your vehicle's original immobilizer ignition key which has an electronic identification code programmed into it. The key communicates the identification code to the vehicle when the key is turned to the "ON" position. If you need to make spare keys, see your Maruti Suzuki authorised workshop. The vehicle must be programmed with the correct identification code for the spare keys. A key made by an ordinary locksmith will not work.



54G003

If the immobilizer system light (1) blinks when the ignition switch is in the "ON" position, there may be something wrong with your key or with the immobilizer system. Ask your Maruti Suzuki authorised workshop to inspect the system.

#### NOTE:

- If you lose your immobilizer ignition key, see your Maruti Suzuki authorised workshop as soon as possible to have the lost one deactivated, then have the new key made by them.
- If you own other vehicles with immobilizer keys, keep those keys away from the ignition switch when using your MARUTI SUZUKI, or the engine may not be started because they may interfere with your MARUTI SUZUKI's immobilizer system.
- If you attach any metal objects to the immobilizer key, it may not start the engine.

#### NOTICE

The immobilizer key is a sensitive electronic instrument. To avoid damaging the immobilizer key:

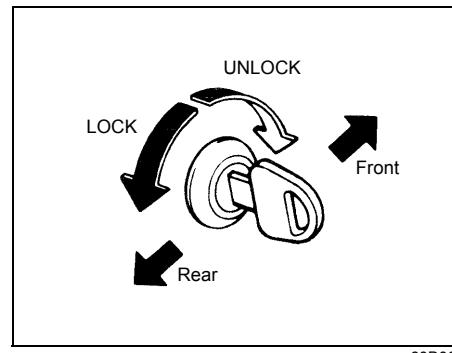
- Do not expose it to impacts, moisture or high temperature such as on the dashboard under direct sunlight.
- Keep the immobilizer key away from magnetic objects.

## BEFORE DRIVING

### Ignition Key Reminder (if equipped)

A buzzer sounds intermittently to remind you to remove the ignition key if it is in the ignition switch when the driver's door is opened.

### Door Locks



60B008

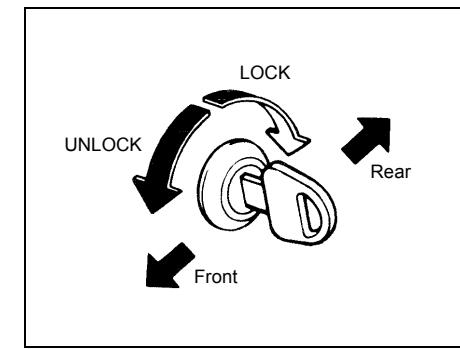
To lock a driver's door from outside the vehicle:

- Insert the key and turn the top of the key toward the rear of the vehicle, or
- Push the lock knob downward, then pull and hold the door handle as you close the door.

To unlock a driver's door from outside the vehicle, insert the key and turn the top of the key toward the front of the vehicle.

To lock a front passenger's door from outside the vehicle, push the lock knob down, then pull and hold the door handle as you close the door.

### Side Door Locks (if equipped)



60B008

To lock a driver's door from outside the vehicle:

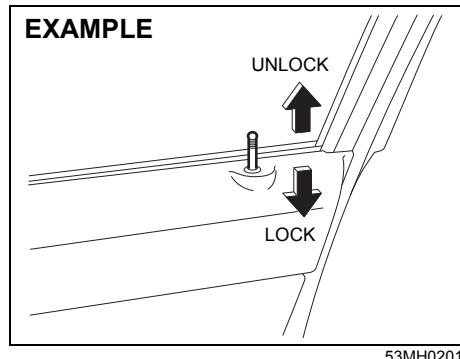
- Insert the key and turn the top of the key toward the rear of the vehicle, or
- Push the lock knob downward, then pull and hold the door handle as you close the door.

To unlock a driver's door from outside the vehicle, insert the key and turn the top of the key toward the front of the vehicle.

## BEFORE DRIVING

To lock a rear door from outside the vehicle, push the lock knob down and close the door. You do not need to pull and hold the door handle as you close the door.

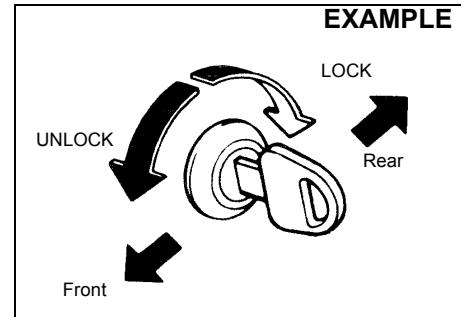
### EXAMPLE



To lock a door from inside the vehicle, push the lock knob down. Pull the lock knob up to unlock the door.

### Central Door Locking System (if equipped)

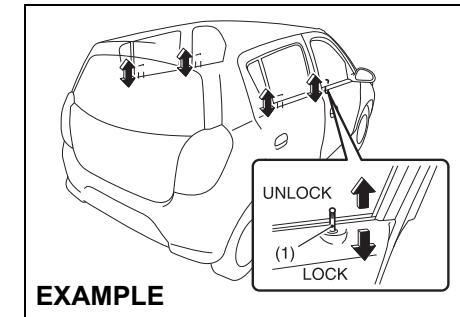
#### Driver's door



You can lock and unlock all doors simultaneously by using the key in the driver's door lock.

To lock all doors simultaneously, insert the key in the driver's door lock and turn the top of the key toward the rear of the vehicle.

To unlock all doors simultaneously, insert the key in a driver's door lock and turn the top of the key toward the front of the vehicle.



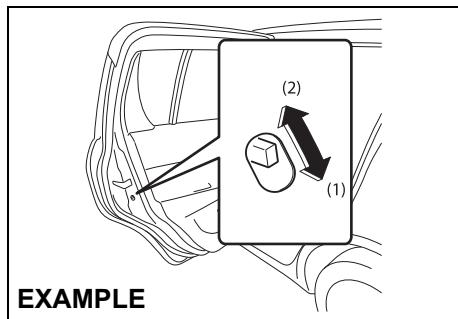
### EXAMPLE

53M-04-006

You can also lock or unlock doors by pushing down or pulling up the driver's door lock knob (1).

## BEFORE DRIVING

### Child-Proof Locks (rear door) (if equipped)



EXAMPLE

53M-04-007

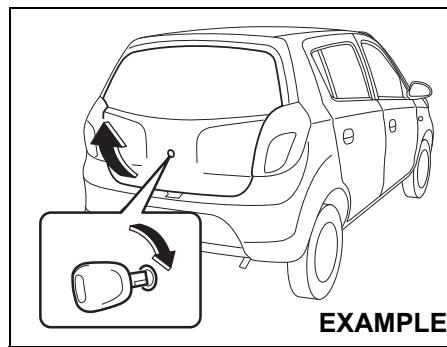
- (1) LOCK
- (2) UNLOCK

Each of the rear doors is equipped with a child-proof lock which can be used to help prevent unwanted opening of the door from inside the vehicle. When the lock lever is in the "LOCK" position (1), the rear door can only be opened from outside. When the lock lever is in the "UNLOCK" position (2), the rear door can be opened from inside or outside.

#### ⚠ WARNING

Be sure to place the child-proof lock in the "LOCK" position whenever children are seated in the rear.

### Tailgate



EXAMPLE

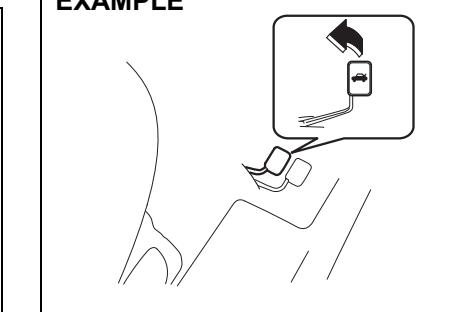
53M-04-008

To open the tailgate, insert the key and turn it clockwise to unlatch and lift the tailgate.

#### NOTICE

Do not use the key to lift up the tailgate, or the key may break off in the lock.

### EXAMPLE



53M-04-009

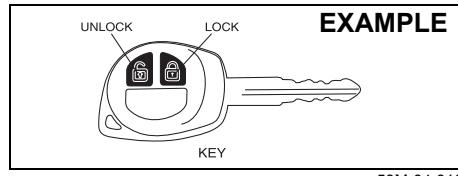
You can also unlatch the tailgate by pulling the release lever (if equipped) located on the outboard side of the driver's seat.

#### ⚠ WARNING

Always make sure that the tailgate is closed and latched securely. Completely closing the tailgate helps prevent occupants from being thrown from the vehicle in the event of an accident. Completely closing it also helps keep exhaust gases from entering the vehicle.

## **BEFORE DRIVING**

### **Keyless Entry System (if equipped)**



53M-04-010

#### **Keyless Entry**

You can lock / unlock all doors simultaneously by operating the transmitter near the vehicle.

- To lock all doors, press “LOCK” button once. All indicator lights will flash once when doors are locked.
- To unlock all doors, press “UNLOCK” button once. All indicator lights will flash twice when doors are unlocked.

#### **NOTE:**

- The operating distance of the keyless entry system transmitter is about 20 meters, but this may vary depending on the condition of transmitter's battery and surroundings especially near other transmitting devices such as radio towers.
- The door locks cannot be operated with the transmitter if the ignition key is inserted in the key cylinder or if any door is open.
- Be sure to close the doors and windows before locking.

- If you lose any of the transmitters (keys), contact your Maruti Suzuki authorised workshop as soon as possible for erasing the transmitter ID from vehicle controller memory. In case you need a new transmitter, place an order with your dealer.
- Key cylinder mentioned in this section is the key hole mounted on steering column, where key is inserted to start the vehicle.

#### **NOTICE**

**The transmitter is a sensitive electronic instrument. To avoid damaging the transmitter:**

- Do not expose it to impacts, moisture, dust or high temperature such as leaving it on the dashboard under direct sunlight.
- Do not tamper with internal parts.
- Keep the transmitter away from magnetic objects such as a television.

## **GENERAL FEATURES**

### **Illuminated Entry**

When vehicle is unlocked, the room lamp will turn ON to facilitate illuminated entry into the vehicle. The room lamp will turn OFF when the door is closed.

### **Illuminated Exit**

When door is opened to exit the vehicle, the room lamp will turn ON and will turn OFF when the door is closed.

### **Auto Relock**

In case of accidental Unlock/Disarm of vehicle by Key, vehicle will automatically Lock within 30 sec. without any indication. Auto relock cycle gets canceled if user does any of the following operation within 30 sec:

1. Open any door.
2. Insert key in cylinder.
3. Any door is locked/unlocked by door knob.

## BEFORE DRIVING

### Radio Frequency Lock Out

Key Lock/Unlock/Panic will cease to function when key is inside Key cylinder.

#### EXAMPLE

Press both buttons together for 3 sec.



Light flashes for 30 sec.

### PROGRAMMABLE FEATURES

System has some features which can be programmed by user according to their choice.

#### Auto Lock Mode

Drive lock mode can be set to Auto Lock mode or can be turned OFF. If drive lock mode is set to auto lock, all the vehicle doors will lock when vehicle attains the speed of 15 Km/hr. If drive is set to OFF, no door will lock by speed.

#### NOTE:

*Auto Lock Mode will get cancelled if any door is open while driving.*

#### Auto Unlock Mode

Drive unlock can be set to Auto Unlock mode or can be turned OFF. When set to Auto Unlock mode, turning Ignition ON to OFF and then removing the key from the key cylinder will unlock all the doors. If Drive Unlock mode is set to OFF then no door will unlock by removing key from key cylinder.

### Car Locator

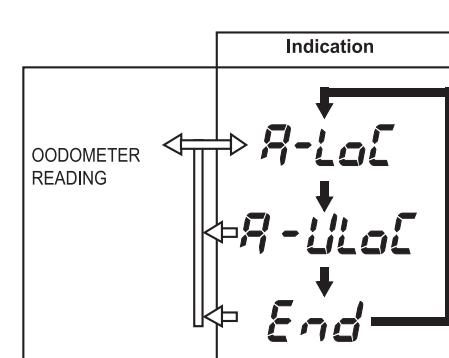
Car Locator feature can be used to locate the vehicle in congested parking area.

- a) Press and hold the Key LOCK & UNLOCK button simultaneously for 3 seconds or more.
- b) Car Locator will be activated and indicator lights will flash for 27 seconds.
- c) "Press and release the Key LOCK button or UNLOCK button or LOCK & UNLOCK button simultaneously to cancel the Car Locator."

## BEFORE DRIVING

### Programming Auto Lock/Unlock Mode

- a) When the ignition switch is in the "ON" position and the vehicle is stationary, push the odometer/trip meter/meter illumination selector knob, to switch the information display indication to the odometer reading.
- b) Push and hold the odometer/trip meter/meter illumination selector knob until the display shows "A-LOC".
- c) Push the odometer/trip meter/meter illumination selector knob to select a function that you want to set up according to the below mentioned table.
- d) To program a Auto Lock/Auto Unlock mode function first select the desired function and then press and hold the odometer/trip meter/meter illumination selector knob.
  - One flash of the indicator light will confirms that Auto Lock/Auto Unlock mode is activated.
  - Two flash of the indicator light confirm that Auto Lock /Auto Unlock mode is deactivated.



Indication	Feature	One flash	Two flash
ODOMETER READING	Auto Lock	Activate	Deactivate
A-LOC	Auto unlock	Activate	Deactivate
A-ULOC	Back	Exit to odometer reading	
End			

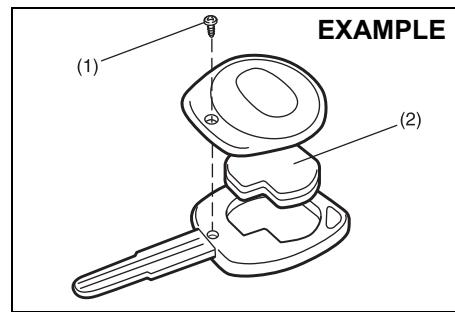
**Short press**  
**Long press**

53M-04-012

## BEFORE DRIVING

### Transmitter battery

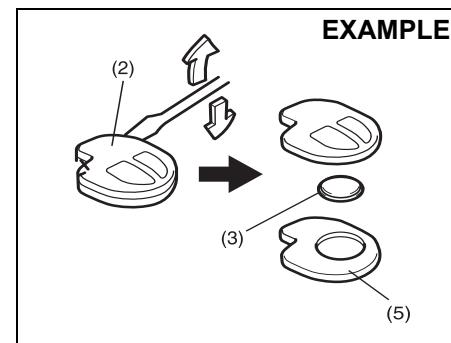
#### Replacement of the Battery



If the transmitter battery gets discharged, replace the battery with a new one.

To replace the battery of the transmitter:

- 1) Remove the screw (1), and open the transmitter cover.
- 2) Remove the transmitter (2).
- 3) Put the edge of a flat blade screw driver in the slot of the transmitter (2) and pry it open.
- 4) Replace the battery (3) (Lithium disc type CR1620) so that its +ve terminal faces the bottom cover of the transmitter (5).



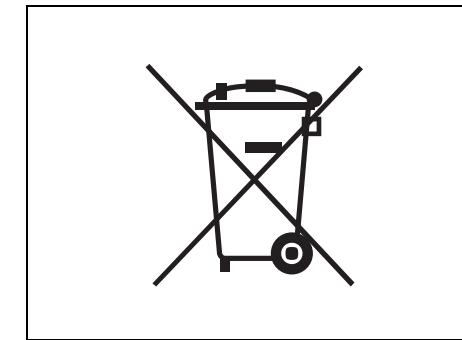
- 5) Close the transmitter and install it into the transmitter holder.
- 6) Close the transmitter cover, install and tighten the screw (1).
- 7) Make sure the door locks can be operated with the transmitter.

**NOTE:**

*Normal battery life is approximately 2 years, but varies depending on usage. It is advisable to get battery replaced from Maruti Suzuki authorised workshop.*

**CAUTION**

**Do not remove the screw from the key unnecessarily as it damages the screw head. Kindly replace the screw once the transmitter battery is changed.**



**CAUTION**

**Dispose off the used battery properly according to applicable rules or regulations. Do not dispose off lithium batteries with ordinary household trash.**

**WARNING**

**Swallowing a lithium battery may cause serious internal injury. Do not allow anyone to swallow a lithium battery. Keep lithium batteries away from children and pets. If swallowed, contact a physician immediately.**

## **BEFORE DRIVING**

## **TROUBLESHOOTING**

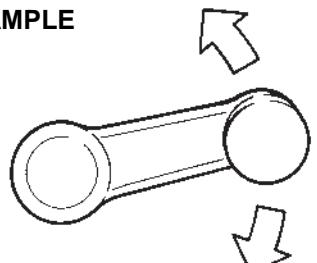
<b>SYMPTOMS</b>	<b>PROBABLE CAUSES</b>	<b>REMEDIES</b>
Transmitter function (Unlock/Lock/Car Locator) not working	<ol style="list-style-type: none"><li>1) Battery of the transmitter is weak.</li><li>2) Transmitter is exposed to water or it is wet.</li><li>3) D/L or Dome fuse for controller is blown in the vehicle.</li><li>4) In case if any door is open or door sensor is shorted with the body ground, remote will not activate the central locking.</li></ol>	<ol style="list-style-type: none"><li>1) Check the battery.</li><li>2) Dry the transmitter and check it.</li><li>3) Check and replace the D/L or Dome fuse.</li><li>4) Check if all doors are properly closed and door switch functioning is O.K.</li></ol>
Operation distance of the transmitter is less than 20m but still transmitter (Unlock/Lock/Car Locator) is not working	<ol style="list-style-type: none"><li>1) Battery of the transmitter is weak.</li><li>2) Strong RF interference. (e.g. Radio Towers, High Voltage Transmission line near by)</li></ol>	<ol style="list-style-type: none"><li>1) Check the battery.</li><li>2) Drive the vehicle away from the particular spot and re-test the control distance.</li></ol>
It is difficult to activate or deactivate the system in certain area using the transmitter.	<ol style="list-style-type: none"><li>1) The strong interference caused by excessive RF activity in a particular area</li></ol>	<ol style="list-style-type: none"><li>1) The interference is temporary and only while the vehicle is in that area.</li></ol>

## BEFORE DRIVING

### Windows

#### Manual Window Control (if equipped)

##### EXAMPLE



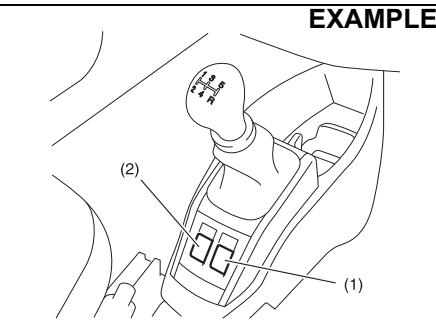
53M-04-016

Raise or lower the door windows by turning the handle located on the door panel.

#### Electric Window Controls (if equipped)

The electric windows can only be operated when the ignition switch is in the "ON" position.

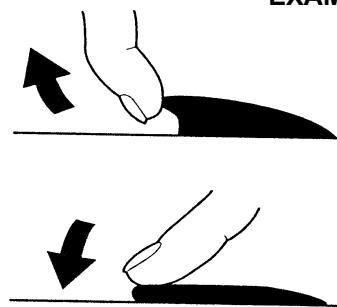
##### EXAMPLE



53M-04-017

The center console has a switch (1) to operate the driver's window, and a switch (2) to operate the front passenger's window.

##### EXAMPLE



81A009

To open a window, push the top part of the switch and to close the window, lift up the top part of the switch.

## BEFORE DRIVING

### ⚠ WARNING

- To avoid injuring an occupant by window entrapment, be sure no part of the occupant's body such as hands or head is in the path of the electric windows when closing them.
- Always remove the ignition key when leaving the vehicle even if only for a short time. Also do not leave children alone in a parked vehicle. Unattended children could use the electric window switches and get trapped by the window.

#### NOTE:

If you drive with one of the rear windows open, you may hear a loud sound caused by air vibration. To reduce the sound, open the driver's or front passenger's window, or narrow the rear window opening.

## Mirrors

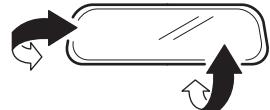
### ⚠ WARNING

Failure to observe following point may result in loss of vehicle control and cause an accident, leading to death or serious injury. always follow below points while driving.

- Do not adjust the mirrors while driving.
- Always unfold all the outside rearview mirrors and adjust properly before driving.
- Do not place objects in the rear of the vehicle which may hinder visibility or interfere with your vision from the rear window glass.

### Inside Rearview Mirror

#### EXAMPLE



53M-04-019

You can adjust the inside rearview mirror by hand so as to see the rear of your vehicle in the mirror.

### ⚠ CAUTION

Do not modify the inside rearview mirror or install a non-genuine wide mirror. It could result in injury during accident.

### Outside Rearview Mirrors

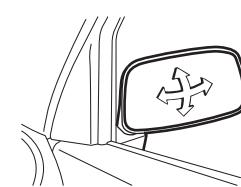
Adjust the outside rearview mirrors so you can just see the side of your vehicle in the mirrors.

### ⚠ WARNING

Be careful when judging the size or distance of a vehicle or other object seen in the side convex mirror. Be aware that objects look smaller and appear farther away than when seen in a flat mirror.

### Type 1

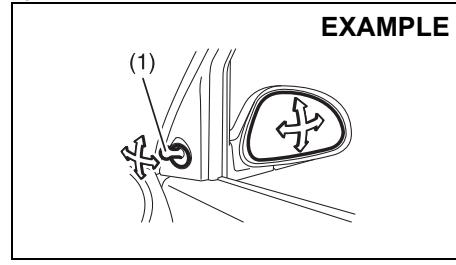
#### EXAMPLE



53MM02018

## BEFORE DRIVING

### Type 2



53M-04-021

You can adjust the outside rearview mirrors by hand or with the knob (1) (if equipped) located on the driver's or front passenger's door panel.

### Front Seats

#### Precaution for front passenger seat

Refer to the NOTICE in the "Front passenger's seat belt reminder" section.

#### Seat Adjustment

##### ⚠ WARNING

Never attempt to adjust the driver's seat or seatback while driving. The seat or seatback could move unexpectedly, causing loss of control. Make sure that the driver's seat and seatback are properly adjusted before you start driving.

##### ⚠ WARNING

To avoid excessive seat belt slack, which reduces the effectiveness of the seat belts as a safety device, make sure that the seats are adjusted before the seat belts are fastened.

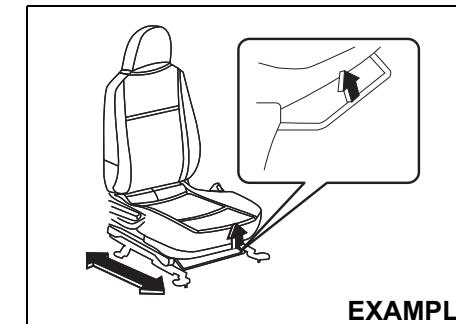
##### ⚠ WARNING

Do not place any object under the front seat. If an object gets stuck under the front seat, the following may occur.  
• The seat shall not be latched.

##### ⚠ WARNING

Do not leave cigarette lighters or spray cans on the floor. If a cigarette lighter or spray can is on the floor, it may light accidentally when luggage is loaded or the seat is adjusted, causing a fire.

#### Adjusting Seat Position



53M-04-023

The adjustment lever for each front seat is located under the front of the seat. To adjust the seat position, pull up on the adjustment lever and slide the seat forward or rearward.

After adjustment, try to move the seat forward and rearward to ensure that it is securely latched.

## BEFORE DRIVING

### Adjusting Seatbacks

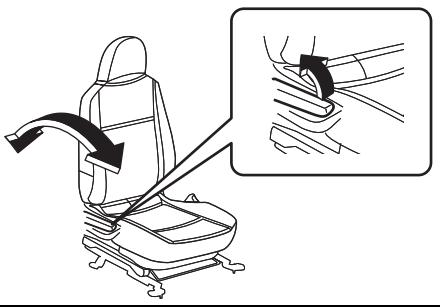
#### ⚠ WARNING

All seatbacks should always be in an upright position when driving, or seat belt effectiveness may be reduced. Seat belts are designed to offer maximum protection when seatbacks are in the upright position.

#### NOTE:

To operate the seat back smoothly pull the seat back adjustment lever (2) in upward direction. Ensure to move seat back only after lever is moved to fully up position. After adjustment of seat back, release the lever gently. Check that seat back is locked by moving it forward and backward.

#### EXAMPLE



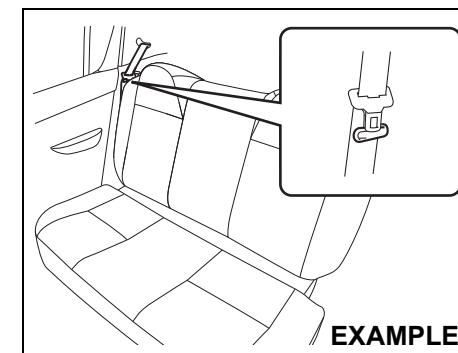
53MM02016

To adjust the seatback angle of front seats, pull up the lever on the outboard side of the seat, move the seatback to the desired position, and release the lever to lock the seatback in place.

### Rear Seats

#### Folding Rear Seat

The rear seat of your vehicle can be folded forward to provide additional cargo space. To fold the rear seat forward:



EXAMPLE

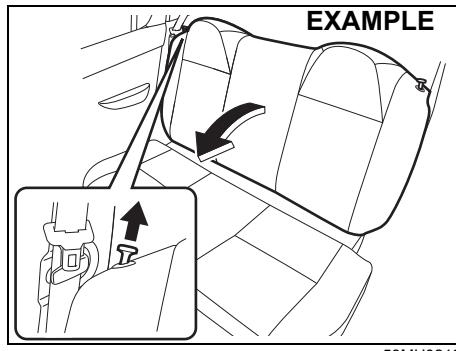
53MH0211

- 1) Hook the webbing of the outboard lap-shoulder belts in the belt hangers.

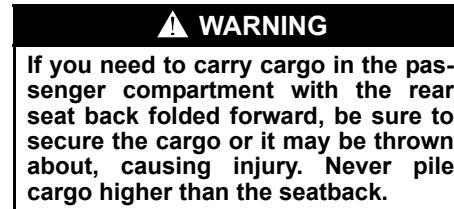
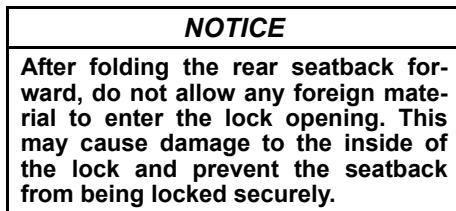
#### NOTICE

- When you move a seatback, make sure the belt webbing is hooked in the seat belt hangers so the seat belts are not caught by the seatback, seat hinge, or seat latch. This helps prevent damage to the belt system.
- Make sure the belt webbing is not twisted.

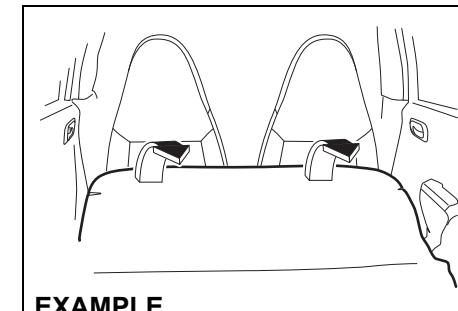
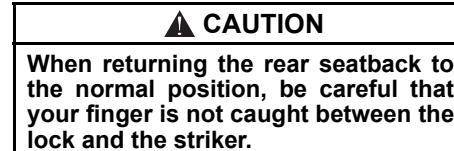
## BEFORE DRIVING



- 2) Pull up the release lock knobs on the top of the seat, and fold the seatback forward.



To return the seat to the normal position, follow the procedure below.



53MH0213

Raise the seatback until it locks into place. After returning the seat, try moving the seatback to make sure they are securely latched.



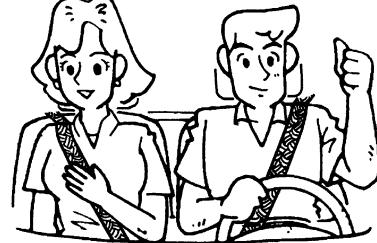
## BEFORE DRIVING

### NOTICE

- When returning the rear seatback to the normal position, do not allow any foreign material to enter the lock opening. This may prevent the seatback from being locked securely.
- When returning the rear seatback to the normal position, be sure to handle it carefully by hand to avoid any damage to the lock itself. Do not push it by using some material or by applying excessive force.
- As the lock is designed exclusively for securing the rear seatback, do not use it for any other purpose. Incorrect use of it may cause damage to the inside of the lock and prevent the seatback from being locked securely.

### Seat Belts and Child Restraint Systems

#### EXAMPLE

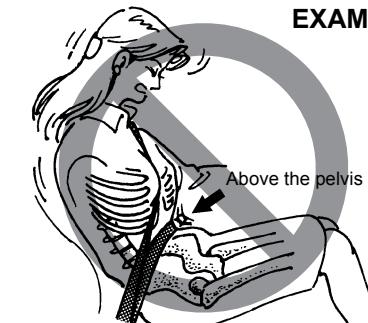


65D231S

### ! WARNING

- Wear Your Seat Belts at All Times.
- An air bag supplements, or adds to, the frontal crash protection offered by seat belts. The driver and all passengers must be properly restrained by wearing seat belts at all times even if driving for a very short distance, whether or not an air bag is mounted at their seating position, to minimize the risk of severe injury or death in the event of a crash.
- Do not modify, remove, disassemble seat belts. Doing so may prevent them from functioning properly and cause the risk of severe injury or death in the event of a collision.

#### EXAMPLE



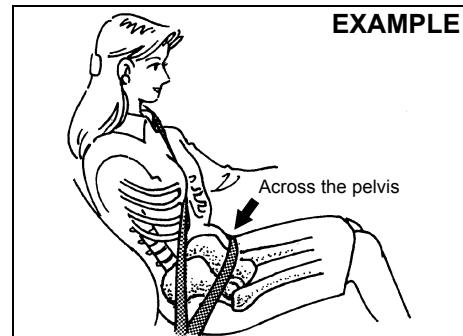
65D606

## BEFORE DRIVING

### ⚠ WARNING

- Never allow persons to ride in the cargo area of a vehicle. In the event of an accident, there is a much greater risk of injury for persons who are not riding in a seat with their seat belt securely fastened.
- Ensure that all seat belts are worn correctly. An improperly worn seat belt increases the risk of injury or death if a collision occurs.
- Seat belts should always be adjusted as follows:
  - the lap portion of the belt should be worn low across the pelvis, not across the waist.
  - the shoulder straps should be worn on the outside shoulder only, and never under the arm.
  - the shoulder straps should be away from your face and neck, but not falling off your shoulder.

(Continued)



### EXAMPLE

65D201

### EXAMPLE

65D199

### ⚠ WARNING

(Continued)

- Seat belts should never be worn with the straps twisted and should be adjusted as tightly as is comfortable to provide the protection for which they have been designed. A slack belt will provide less protection than one which is snug.
- Check that seat belt latch plate (tongue) is inserted into the proper buckle especially in the rear seats. It is not possible to insert into the wrong buckles in the rear seats.

(Continued)

### ⚠ WARNING

(Continued)

- Pregnant women should use seat belts, although specific recommendations about driving should be made by the woman's medical advisor. Remember that the lap portion of the belt should be worn as low as possible across the hips, as shown in the diagram.
- Do not wear your seat belt over hard, fragile or sharp items such as pens, keys, eyeglasses, etc. in pockets or on clothing. The pressure from seat belt on such items can cause injury in case of an accident.

(Continued)

## BEFORE DRIVING

### ⚠ WARNING

(Continued)

- Never use the same seat belt on more than one occupant and never attach a seat belt over an infant or child being held on an occupant's lap. Such seat belt use could cause serious injury in the event of an accident.
- Periodically inspect seat belt assemblies for excessive wear and damage. Seat belts should be replaced if webbing becomes frayed, contaminated, or damaged in any way. It is essential to replace the entire seat belt assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious.
- Children age 12 and under should ride properly restrained in the rear seat.
- Infants and small children should never be transported unless they are properly restrained. Restraint systems for infants and small children can be purchased locally and should be used. Make sure that the system you purchase meets applicable safety standards. Read and follow all the directions provided by the manufacturer.

(Continued)

### ⚠ WARNING

(Continued)

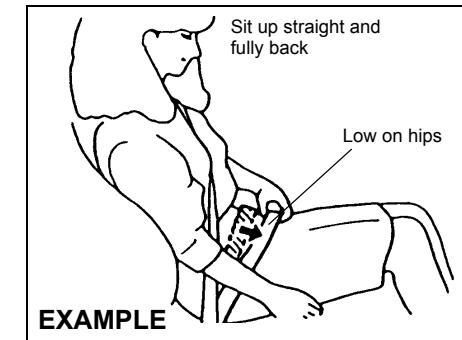
- For children, if the shoulder belt irritates the neck or face, move the child closer to the center of the vehicle.
- Avoid contamination of seat belt webbing by polishes, oils, chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water.
- Do not insert any items such as coins, clips, etc. into the seat belt buckles, and be careful not to spill liquids into these parts. If foreign materials get into a seat belt buckle, the seat belt may not work properly.
- All seatbacks should always be in an upright position when driving, or seat belt effectiveness may be reduced. Seat belts are designed to offer maximum protection when seatbacks are in the upright position.

### Lap-Shoulder Belt

#### Emergency Locking Retractor (ELR) (if equipped)

The seat belt has an emergency locking retractor (ELR), which is designed to lock the seat belt only during a sudden stop or impact. It also may lock if you pull the belt across your body very quickly. If this happens, let the belt go back to unlock it, then pull the belt across your body more slowly.

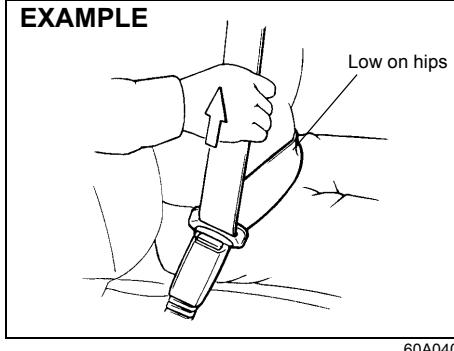
#### Safety reminder



60A038

## BEFORE DRIVING

### EXAMPLE

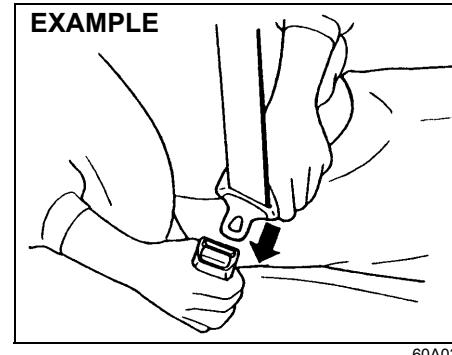


### All Seat Belts Except Rear Center

All seat belts except rear center are the lap-shoulder belt.

### EXAMPLE

#### EXAMPLE

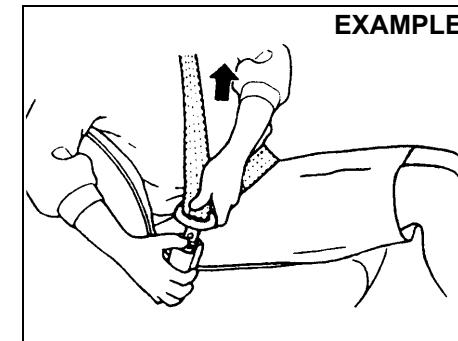


60A036

To reduce the risk of sliding under the belt during a collision, position the lap portion of the belt across your lap as low on your hips as possible and adjust it to a snug fit by pulling the shoulder portion of the belt upward through the latch plate. The length of the diagonal shoulder strap adjusts itself to allow freedom of movement.

To fasten the seat belt, sit up straight and well back in the seat, pull the latch plate attached to the seat belt across your body and press it straight into the buckle until you hear a "click".

### EXAMPLE



60A039

To unfasten the seat belt, push the red "PRESS" button on the buckle and retract the belt slowly while attaching a hand to the belt or/and the latch plate.

#### NOTE:

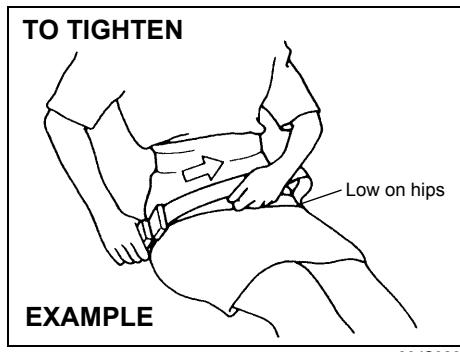
*If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. the smoothly pull the belt out of the retractor.*

### Rear Center Seat Belt

Rear center seat belt is the lap belt. Sit up straight and well back in the seat. To fasten the belt, pull the latch plate attached to the seat belt across your hips and press it straight into the buckle until you hear a click. To reduce the risk of sliding under the belt during a collision, position the belt

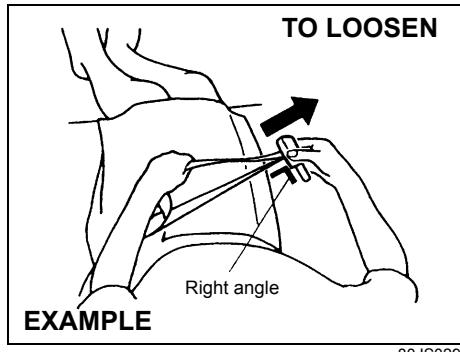
## BEFORE DRIVING

across your lap as low on your hips as possible and adjust it to a snug fit.



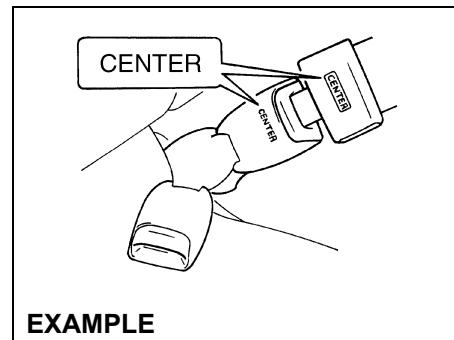
80JS028

To tighten the belt, pull the free end of the belt across alongside the lap strap.



80JS029

To lengthen, release the latch plate from the buckle, pull the latch plate (adjuster) in the direction of the arrow, at right angles to the belt. The latch plate should then be refitted into the buckle and the belt tightened as previously described.  
To unfasten the belt, press the release button on the buckle catch.



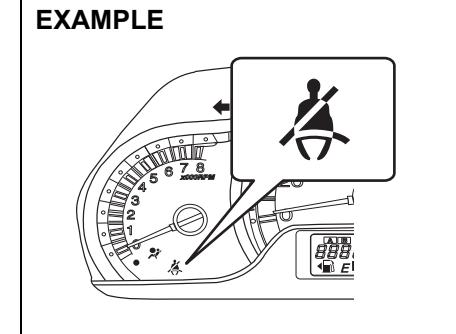
80JS031

**NOTE:**

*The word "CENTER" is marked on the buckle and latch plate for the rear center belt. The buckles are designed so a latch plate cannot be inserted into the wrong buckle.*

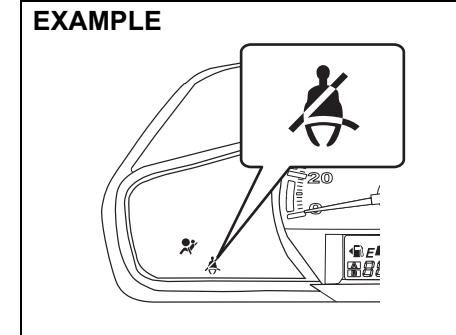
### Driver's Seat Belt Warning Light / Front Passenger's Seat Belt Warning Light

#### Type A (with tachometer)



53MM02004

#### Type B (without tachometer)



53MM02005

## BEFORE DRIVING

When the driver and / or front passenger do / does not fasten their seat belts, the seat belt reminder light will come on or blink and a buzzer will sound to remind the driver and/or passenger to fasten their seat belts. For more details, refer to the explanation below.

### ⚠ WARNING

**It is absolutely essential that the driver and passengers wear their seat belts at all times. Persons who are not wearing seat belts have a much greater risk of injury if an accident occurs. Make a regular habit of buckling your seat belt before putting the key in the ignition switch.**

#### NOTE:

*The driver's seat belt reminder light / front passenger's seat belt reminder light is for both the driver and front passenger.*

#### Driver's seat belt reminder

If the driver's seat belt remains unbuckled when the ignition switch is turned to the "ON" position, the reminder works as follows:

- 1) The driver's seat belt reminder light will come on.
- 2) After the vehicle's speed has reached about 15 km/h, the driver's seat belt reminder light will blink and a buzzer will sound for about 95 seconds.

- 3) The reminder light will remain on until the driver's seat belt is buckled.

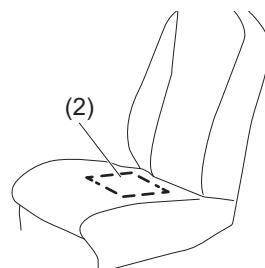
If the driver has buckled his or her seat belt and later unbuckles the seat belt, the reminder system will be activated from Step 1) or 2) according to the vehicle's speed. When the vehicle's speed is less than 15 km/h, the reminder will start from Step 1). When the vehicle's speed is more than 15 km/h, the reminder will start from Step 2).

The reminder will be automatically canceled when the driver's seat belt is buckled or the ignition switch is turned off.

#### Front passenger's seat belt reminder

If there is a person sitting in the front passenger seat and the front passenger seat belt is unbuckled when the ignition switch is turned to "ON" position, the front passenger's seat belt reminder will activate.

### EXAMPLE



69RH203

- (2) The sensor of the front passenger's seat belt reminder

The seat belt reminder sensor (2) detects whether a person is sitting in the front seat. The sensor of the front passenger's seat belt reminder is located in the seat cushion. The front passenger's seat belt reminder works in the same manner as the driver's seat belt reminder.

### NOTICE

- The sensor of the front passenger's seat belt reminder is located in the seat cushion. If heavy or sharp objects are put on the seat cushion, or a removal, disassembly and modification of the passenger's seat are performed, the sensor may not work properly or can be damaged. Do not put heavy or sharp objects on the seat cushion. Do not remove, disassemble and modify the passenger's seat.
- Depending on the variety of seat cover, operation of the sensor may be adversely affected. MARUTI SUZUKI highly recommends that you use MARUTI SUZUKI genuine seat cover exclusively for this vehicle.

(Continued)

## BEFORE DRIVING

### NOTICE

- If you spill liquid such as liquid aromatics, soft drinks or juice on the front passenger's seat cushion, the sensor of the front passenger's seat belt reminder located in the seat cushion can be damaged. Immediately wipe it dry with a soft cloth when spilled.
- When sitting on the front passenger's seat, it is very important that the passenger sits upright, leaning against the seat backrest and centered on the seat cushion in order for the seatbelt reminder system to function effectively. An occupant sitting improperly (slouches, turns sideways, sits forward or sideways) may hamper the functioning of this system as it may not detect the occupant.

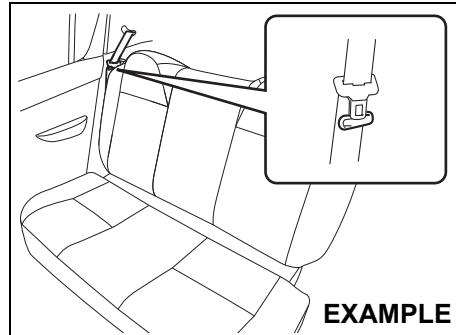
### NOTE:

- If you put an object on the passenger's seat, the weight of the object will be sensed by the sensor and the front passenger's seat belt reminder light will come on and then the interior buzzer may beep.
- If a child or a small sized person sits on the front passenger's seat or the cushion is put on the front passenger's seat, the weight may not be sensed by the sensor and the interior buzzer may not beep.

### NOTE:

Maruti Suzuki recommends use of Maruti Suzuki Genuine accessory of "Seat cover".

### Seat Belt Hanger

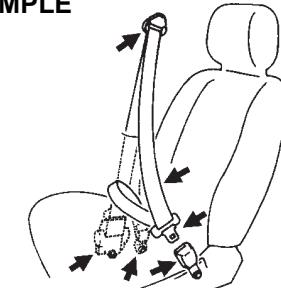


EXAMPLE

53MH0214

### Seat Belt Inspection

#### EXAMPLE



53M-04-040

Periodically inspect the seat belts to make sure they work properly and are not damaged. Check the webbing, buckles, latch plates, retractors, anchorages, and guide loops. Replace any seat belts which do not work properly or are damaged.

### NOTICE

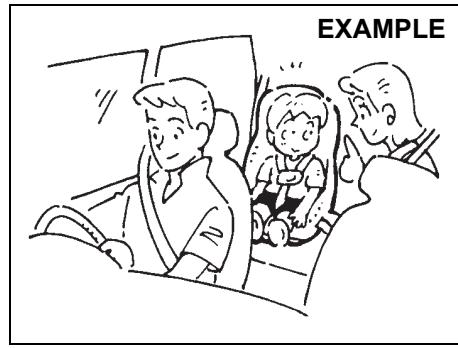
- When you move a seatback, make sure the webbing is hooked in the seat belt hangers so the seat belts are not caught by the seatback, seat hinge, or seat latch. This helps prevent damage to the belt system.
- Make sure the belt webbing is not twisted.

### ! WARNING

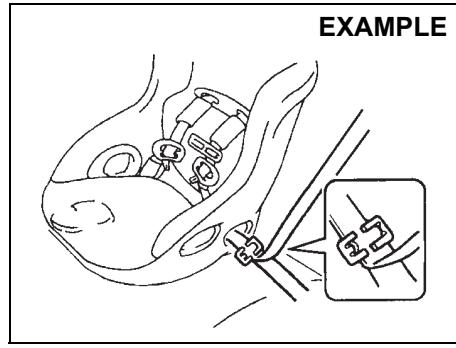
Be sure to inspect all seat belt assemblies after any collision. Any seat belt assembly which was in use during a collision (other than a very minor one) should be replaced, even if damage to the assembly is not obvious. Any seat belt assembly which was not in use during a collision should be replaced if it does not function properly, it is damaged in any way.

## BEFORE DRIVING

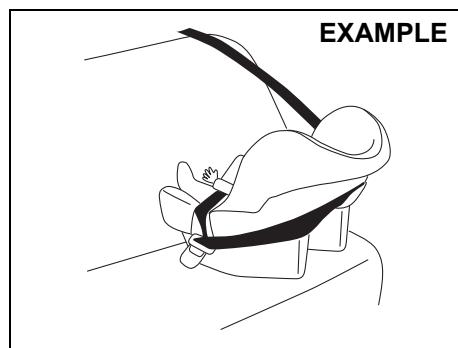
### Child Restraint Systems



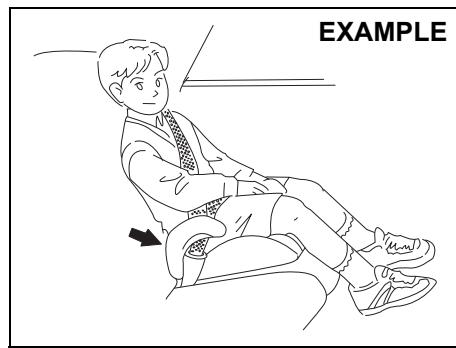
### Child restraint



### Infant restraint



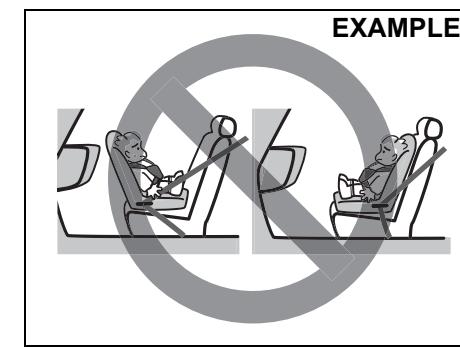
### Booster seat



MARUTI SUZUKI highly recommends that you use a child restraint system to restrain infants and small children. Many different types of child restraint systems are available; make sure that the restraint system you select meets applicable safety standards.

All child restraint systems are designed to be secured on vehicle seats by either seat belts (the lap portion of lap-shoulder belts) or by special rigid lower anchor bars built into the seat.

**NOTE:**  
Observe any statutory regulation about child restraints.



### ! WARNING

**Do not install a child restraint system on the front passenger's seat.**

## BEFORE DRIVING

### ⚠ WARNING

If you install a child restraint system in the rear seat, slide the front seat far enough forward so that the child's feet do not touch the front seatback. This will help avoid injury to the child in the event of an accident.



3M-04-046

### EXAMPLE



### EXAMPLE

53M-04-047

### ⚠ WARNING

Children could be endangered in a crash if their child restraints are not properly secured in the vehicle. When installing a child restraint system, be sure to follow the instructions below. Be sure to secure the child in the restraint system according to the manufacturer's instructions.

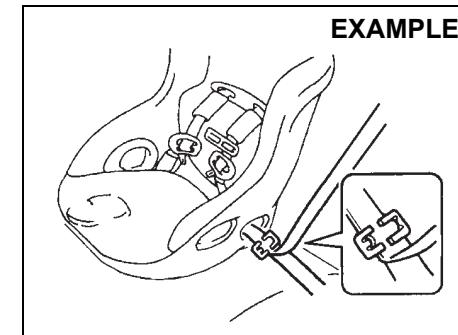
### ⚠ WARNING

Do not hold a child on a passenger's lap when the vehicle is in motion. Even if the passenger holds the child tightly, he/she would not be supported enough in the event of an accident and it could result in a serious injury of the child.

Installation with Lap-Shoulder Seat Belts

ELR type belt (if equipped)

### EXAMPLE



53M-04-048

Install your child restraint system according to the instructions provided by the child restraint system manufacturer.

Make sure that the seat belt is securely latched.

Try to move the child restraint system in all directions to make sure it is securely installed.

## BEFORE DRIVING

### Child Restraint System for India

#### Child Restraint

The suitability of each passenger's seat position for carriage of children and fitting of child restraint system is shown in the table below. Whenever you carry children up to 12 years of age, properly use the child restraints which conform to AIS 072, the standard for child restraints, referring to the table.

MASS GROUP	Seating position (or other site)				
	Front Passenger	Rear Outboard	Rear Centre	Intermediate Outboard	Intermediate Centre
Group 0 Up to 10 kg	X	U	X	N.A.	N.A.
Group 0+ Up to 13 kg	X	U	X	N.A.	N.A.
Group I 9 to 18 kg	X	U	X	N.A.	N.A.
Group II 15 to 25 kg	X	U	X	N.A.	N.A.
Group III 22 to 36 kg	X	U	X	N.A.	N.A.

Key of letters to be inserted in the above table:

U = Suitable for 'universal' category restraints approved for use in this mass group

X = Seat position not suitable for children in this mass group

N.A. = Seat position not available for children in this mass group.

NOTE: 'universal' is the category in the AIS 072.

: 'Outboard' indicates window side seat.

## BEFORE DRIVING

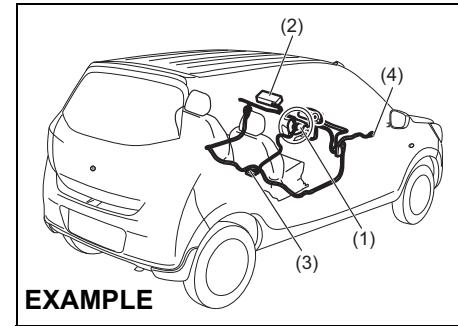
### Supplemental Restraint System (air bag)

#### ⚠ WARNING

This section of the owner's manual describes the protection provided by your MARUTI SUZUKI SUPPLEMENTAL RESTRAINT SYSTEM (air bag). Please read and follow ALL these instructions carefully to minimize your risk of severe injury or death in the event of a collision.

Your vehicle is equipped with a Supplemental Restraint System consisting of the following components in addition to a lap-shoulder belt at each front seating position.

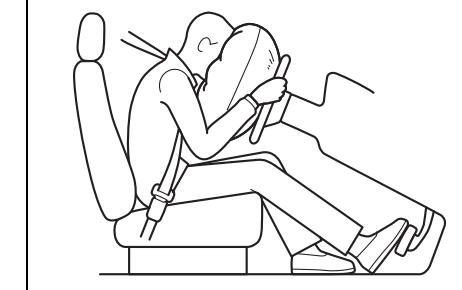
- 1) Driver's front air bag module
- 2) Front passenger's front air bag module (if equipped)
- 3) Air bag controller
- 4) Forward crash sensor



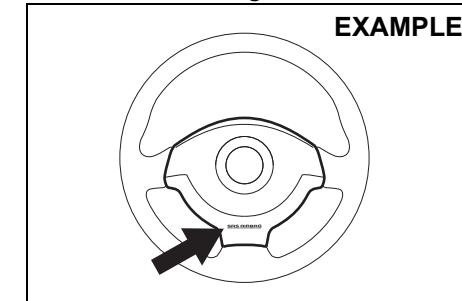
If the "AIR BAG" light on the instrument cluster does not blink or come on when the ignition switch is first turned to the "ON" position, or the "AIR BAG" light stays on, or comes on while driving, the air bag system may not work properly. Have the air bag system inspected by a Maruti Suzuki authorised workshop as soon as possible.

### Front Air Bag

#### EXAMPLE



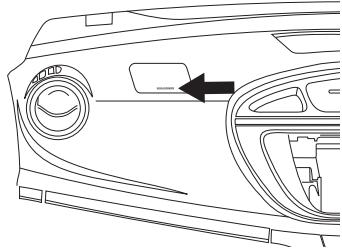
#### Driver's front air bag



## BEFORE DRIVING

### Front passenger's front air bag (if equipped)

#### EXAMPLE

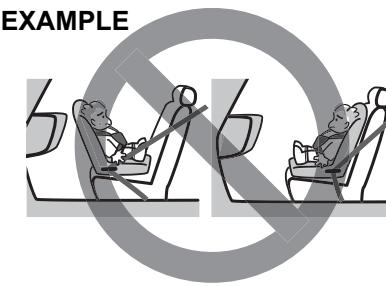


53MM02019

The driver's front air bag is located behind the center pad of the steering wheel and the front passenger's front air bag is located behind the passenger's side of the dashboard.

The words "SRS AIRBAG" are molded into the air bag covers to identify the location of the air bags.

#### EXAMPLE



61M0241

#### WARNING

**Do not install a child restraint system  
on the front passenger's seat.**

Please refer to the "Seat Belts and Child Restraint Systems" section in this section for details on securing your child.

### Conditions of front air bags deployment (inflation)

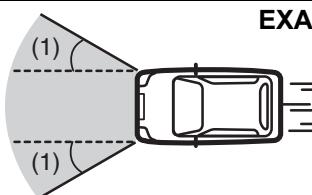
#### EXAMPLE



80J097

- Frontal collision with a fixed wall that does not move or deform at more than about 25 km/h.

#### EXAMPLE



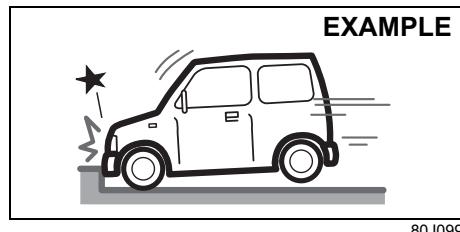
80J098E

- Strong impact equivalent to frontal crash such as above at left and right angles of about 30 degrees (1) or less from the front of your vehicle.

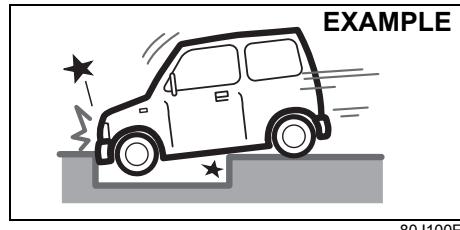
## BEFORE DRIVING

### Conditions when front air bags may inflate

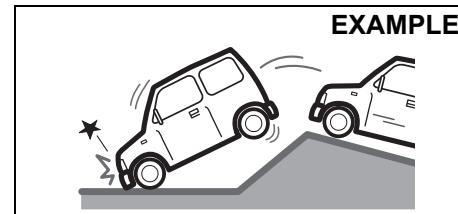
Receiving a strong impact to the lower body of your vehicle, the front air bags may inflate.



- Hitting a curb or medial strip.



- Falling into a deep hole or ditch.



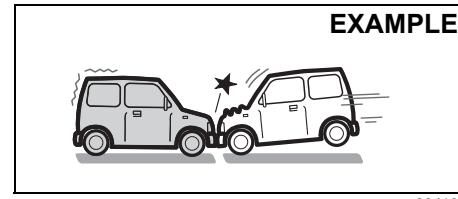
- Landing hard or falling.

### Front air bags may not inflate

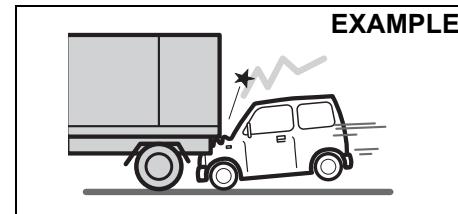
The front air bags may not inflate when a strong impact has not occurred since the collision object (including living being like animals) was easy to be deformed or moved, or the collided portion of your vehicle was easy to be deformed.

Also, front air bags may not inflate in many cases when the crash angle is greater than about 30 degrees at left and right angles from the front of your vehicle.

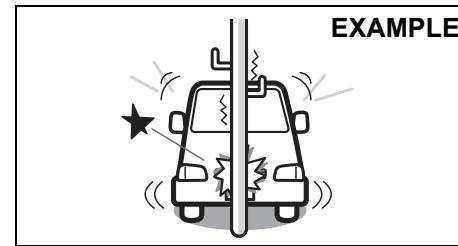
Also, in certain collisions at low speed, the air bags may not inflate.



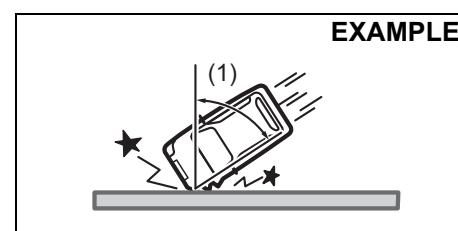
- Frontal collision to a stopped vehicle at less than about 50 km/h.



- Collision that the front of your vehicle goes under the bed of a truck etc.

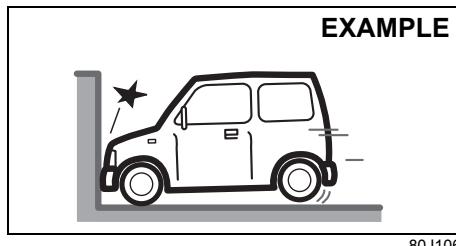


- Collision with a utility pole or stumpage.



## BEFORE DRIVING

- Collision with a fixed wall or guardrail at left and right angles of greater than about 30 degrees (1) from the front of your vehicle.

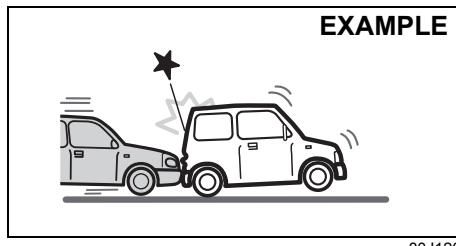


80J106

- Frontal collision with a fixed wall that does not move or deform at less than about 25 km/h.

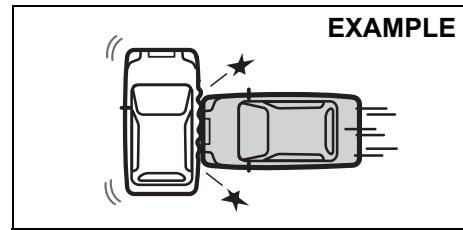
### Front air bags do not inflate

Front air bags do not inflate in rear impacts, side impacts or rollovers, etc. However, these might inflate in a strong impact.



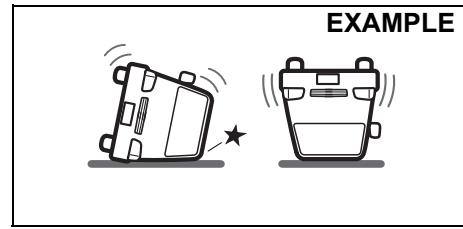
80J120

- Impact from the rear.



80J119

- Impact from the side.



80J110

- Vehicle rollover.

Front air bags are not designed to inflate in rear impacts, side impacts, rollovers or minor frontal collisions, since they would offer no protection in those types of accidents. Remember, since an air bag deploys only one time during an accident, seat belts are needed to restrain occupants from further movements during the accident.

Therefore, an air bag is NOT a substitute for seat belts. To maximize your protection, **ALWAYS WEAR YOUR SEAT BELTS**. Be aware that no system can prevent all possible injuries that may occur in an accident.

### ! WARNING

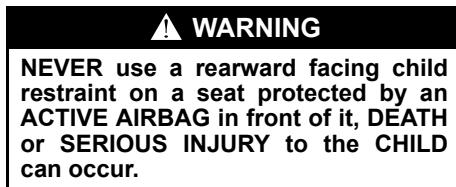
An air bag supplements, or adds to, the crash protection offered by seat belts. The driver and all passengers must be properly restrained by wearing seat belts at all times, whether or not an air bag is mounted at their seating position, to minimize the risk of severe injury or death in the event of a crash.

## BEFORE DRIVING

### Air bag symbol meaning (if equipped)



You may find this label on the sun visor.



⚠ WARNING

If the AIR BAG light in the instrument cluster ever comes on and stays on, it means that something may be wrong with the air bag system. If this ever happens, have the vehicle serviced immediately, because the air bags may not offer the protection for which they were designed.

Please refer to the "Seat Belts and Child Restraint Systems" section in this section for details on securing your child.

### Door Lock Canceller System (if equipped)

If SRS Airbag system is activated all doors are unlocked automatically.

**NOTE:**

*In case door lock wiring and/or motor are damaged, doors may not unlock automatically.*

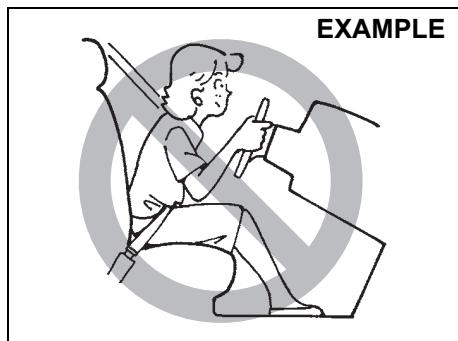
**How the system works**

In a frontal collision, the crash sensors will detect rapid deceleration, and if the controller judges that the deceleration represents a severe frontal crash, the controller will trigger the inflators. The inflators inflate the air bags with nitrogen or argon gas. The inflated air bags provide a cushion for your head and upper body. The air bag inflates and deflates so quickly that you may not even realize that it has activated. The air bag will neither hinder your view nor make it harder to exit the vehicle.

Air bags must inflate quickly and forcefully in order to reduce the chance of serious or fatal injuries. However, an unavoidable consequence of the quick inflation is that the air bag may irritate bare skin, such as the facial area. Also, upon inflation, a loud noise will occur and some powder and smoke will be released. These conditions are not harmful and do not indicate a fire in the vehicle. Be aware, however, that some air bag components may be hot for a while after inflation.

## BEFORE DRIVING

A seat belt helps keep you in the proper position for maximum protection when an air bag inflates. Adjust your seat as far back as possible while still maintaining control of the vehicle. Sit fully back in your seat; sit up straight; do not lean over the steering wheel. Please refer to the "Front Seat" section and the "Seat Belts and Child Restraint Systems" section in this section for details on proper seat and seat belt adjustments.



53M-04-068

### ! WARNING

- The driver should not lean over the steering wheel. In these situations, the out-of-position occupant would be too close to an inflating air bag, and may suffer severe injury.
- Do not attach any objects to, or place any objects over, the steering wheel. Do not place any objects between the air bag and the driver. These objects may interfere with air bag operation or may be propelled by the air bag in the event of a crash. Either of these conditions may cause severe injury.

Note that even though your vehicle may be moderately damaged in a frontal collision, the collision may not have been severe enough to trigger the air bags to inflate. If your vehicle sustains any front-end damage, have the air bag system inspected by a Maruti Suzuki authorised workshop to ensure it is in proper working order. Your vehicle is equipped with a diagnostic module which records information about the air bag system if the air bags deploy in a crash. The module records information about overall system status, which sensors activated the deployment, and for a certain vehicle only, whether the driver's seat belt was in use.

### Servicing the air bag system

If the air bags inflate, have the air bags and related components replaced by a Maruti Suzuki authorised workshop as soon as possible.

If your vehicle ever gets in deep water and the driver's floor is submerged, the air bag controller could be damaged. If it does, have the air bag system inspected by the Maruti Suzuki authorised workshop as soon as possible.

Special procedures are required for servicing or replacing an air bag. For that reason, only a Maruti Suzuki authorised workshop should be allowed to service or replace your air bags. Please remind anyone who services your MARUTI SUZUKI that it has air bag.

Service on or around air bag components or wiring must be performed only by a Maruti Suzuki authorised workshop. Improper service could result in unintended air bag deployment or could render the air bag inoperative. Either of these two conditions may result in severe injury.

To prevent damage or unintended inflation of the air bag system, be sure the battery is disconnected and the ignition switch has been in the "LOCK" position for at least 90 seconds before performing any electrical service work on your MARUTI SUZUKI. Do not touch air bag system components or wires. The wires are wrapped with yellow tape or yellow tubing, and the couplers are yellow for easy identification.

## **BEFORE DRIVING**

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Scraping a vehicle that has an uninflated air bag can be hazardous. Ask your dealer, body repair shop or scrap yard for help with disposal.

**2-31**

**53MH0-74E**

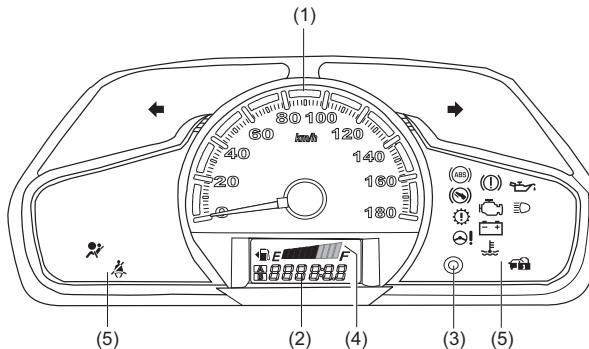
## BEFORE DRIVING

### Instrument Cluster

- (1) Speedometer
- (2) information display
- (3) Odometer/Trip meter/Meter illumination selector knob
- (4) Fuel gauge
- (5) Warning and indicator lights
- (6) Tachometer (if equipped)

### Type A (without Tachometer)

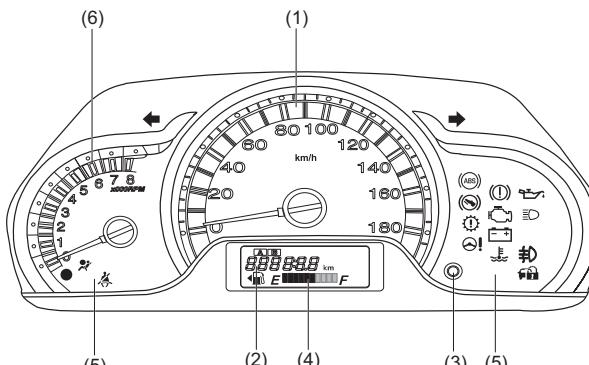
#### EXAMPLE



53MM02007

### Type B (with Tachometer)

#### EXAMPLE



53MM02008

## **BEFORE DRIVING**

### **Warning and Indicator Lights**

#### **Brake System Warning Light**



53M-04-072

Three different types of operations exist depending on the vehicle's specification.

- 1) The light comes on briefly when the ignition switch is turned to the "ON" position.
- 2) The light comes on when the parking brake is engaged with the ignition switch in the "ON" position.
- 3) The light comes on when under either or both of above two conditions.

The light also comes on when the fluid in the brake fluid reservoir falls below the specified level.

The light should go out after starting the engine and fully releasing the parking brake, if the fluid level in the brake fluid reservoir is adequate.

The light also comes on together with the ABS warning light when the rear brake force control function (proportioning valve function) of the ABS system fails.

If the brake system warning light comes on while you are driving the vehicle, it may

mean that there is something wrong with the vehicle's brake system. If this happens, you should:

- 1) Pull off the road and stop carefully.
- 2) Test the brakes by carefully starting and stopping at the side of the road.
  - If you determine that it is safe, drive carefully at low speed to the nearest dealer for repairs, or
  - Have the vehicle towed to the nearest dealer for repairs.

#### **! WARNING**

**Remember that stopping distance may be longer, you may have to push harder on the pedal, and the pedal may go down farther than normal.**

#### **! WARNING**

**If any of the following conditions occur, you should immediately ask your Maruti Suzuki authorised workshop to inspect the brake system.**

- If the brake system warning light does not go out after the engine has been started and the parking brake has been fully released.
- If the brake system warning light does not come on when the ignition switch is turned to the "ON" position.
- If the brake system warning light comes on at any time during vehicle operation.

#### **NOTE:**

*Because the disc brake system is self-adjusting, the fluid level will drop as the brake pads become worn. Replenishing the brake fluid reservoir is considered normal periodic maintenance.*

## BEFORE DRIVING

### Driver's Seat Belt Warning Light / Front Passenger's Seat Belt Warning Light



53M-04-073

When the driver or front passenger does not buckle his or her seat belt, this light will come on and/or blink.

For details about the seat belt reminder, refer to "Seat Belts and Child Restraint Systems" in this section.

### "AIR BAG" Light



53M-04-074

This light blinks or comes on for several seconds when the ignition switch is turned to the "ON" position so you can check if the light is working.

The light will come on and stay on if there is a problem in the air bag system.

### ! WARNING

If the "AIR BAG" light does not blink or come on briefly when the ignition switch is turned to the "ON" position, stays on for more than 10 seconds, or comes on while driving, the air bag system may not work properly. Have both systems inspected by a Maruti Suzuki authorised workshop.



65D529

When the ignition switch is turned to the "ON" position, the light comes on briefly so you can check that the light is working. If the light stays on, or comes on when driving, there may be something wrong with the ABS.

If this happens:

- 1) Pull off the road and stop carefully.
- 2) Turn the ignition switch to "LOCK" and then start the engine again.

If the warning light comes on briefly then turns off, the system is normal. If the warn-

ing light still stays on, something is wrong with the system.

If this light and the brake system warning light stay on, or come on simultaneously when driving, there may be something wrong with both the rear brake force control function and anti-lock function of the ABS system.

If one of these happens, have the system inspected by a Maruti Suzuki authorised workshop.

If the ABS becomes inoperative, the brake system will function as an ordinary brake system that does not have this ABS system.

### Malfunction Indicator Light



53M-04-075

Your vehicle has a computer-controlled emission control system. A malfunction indicator light is provided on the instrument panel to indicate when it is necessary to have the emission control system serviced. The malfunction indicator light comes on when the ignition switch is turned to "ON" position to let you know the light is working and goes out when the engine is started.

## BEFORE DRIVING

If the malfunction indicator light comes on when the engine is running, there is a damage with the emission control system. Bring the vehicle to your Maruti Suzuki authorised workshop to have the damage fixed.

Also, if the light comes on, there may be something wrong with the transaxle system. Have the system inspected by Maruti Suzuki authorised workshop.

### NOTICE

**Continuing to drive the vehicle when the malfunction indicator light is on can cause permanent damage to the vehicle's emission control system, and can affect fuel economy and driveability.**

### Transaxle Warning Light (if equipped)



53M-04-076

This light comes on briefly when the ignition switch is turned to the "ON" position or the engine switch is pressed to change the ignition mode to "ON" so you can check the light is working. If this light comes on when the engine is running, there is the problem with the automatic transaxle system. Ask your Maruti Suzuki authorised workshop to have the system inspected.

#### NOTE:

*If the Auto Gear Shift system temperature becomes too high, this light will blink. Stop the vehicle in a safe place and let the system cool down.*

### Electric Power Steering Light (if equipped)



53M-04-077

This light comes on when the ignition switch is turned to the "ON" position, and goes out when the engine is started. If this light comes on while driving, the power steering system may not work properly. Have the system inspected by your Maruti Suzuki authorised workshop.

#### NOTE:

*If the power steering system does not work properly, you will feel heavier to steer but you still will be able to steer.*

## BEFORE DRIVING

### Oil Pressure Light



53M-04-078

This light comes on when the ignition switch is turned to the "ON" position, and goes out when the engine is started. The light will come on and remain on if there is insufficient oil pressure. If the light comes on when driving, pull off the road as soon as you can and stop the engine.

Check the oil level and add oil if necessary. If there is enough oil, the lubrication system should be inspected immediately by your Maruti Suzuki authorised workshop before you drive the vehicle again.

#### NOTICE

- If you operate the engine with this light on, severe engine damage can result.
- Do not rely on the Oil Pressure Light to indicate the need to add oil. Be sure to periodically check the engine oil level.

### Charging Light



53M-04-079

This light comes on when the ignition switch is turned to the "ON" position, and goes out when the engine is started. The light will come on and remain on if there is something wrong with the battery charging system. If the light comes on when the engine is running, the charging system should be inspected immediately by your Maruti Suzuki authorised workshop.

### High Engine Coolant Temperature Warning Light



53M-04-080

When the ignition switch is turned to the "ON" position, this light comes on briefly so you can check that the light is working. If this light blinks while driving, it means the engine is running hot. Avoid driving conditions that may lead to actual overheating. If the light stays on without blinking, then the engine is overheating. Follow the instructions in the "If the Engine Overheats" of "EMERGENCY SERVICE" section.

#### NOTICE

Continuing to drive the vehicle when engine overheating is indicated can result in severe engine damage.

## BEFORE DRIVING

### Immobilizer System Light



53M-04-081

This light comes on when the ignition switch is turned to the "ON" position, and goes out when the engine is started. If this light blinks with the ignition switch turned to "ON", there may be something wrong with the immobilizer system. Ask your Maruti Suzuki authorised workshop to have the system inspected.

### Door Lock Canceller Indicator Light (if equipped)



53M-04-082

This indicator light will come on and keep blinking continuously if there is some problem with door lock canceller system. Have the vehicle inspected by Maruti Suzuki authorised workshop.

#### NOTE:

*In case door lock wiring and/or motor are damaged, Door Lock Canceller Indicator Light will not blink.*

### Gear Shift Indicator (if equipped) Manual Transaxle



53M-04-083

This indicator informs about upshifting or downshifting the gear while the vehicle is running.

There are three indications:



#### Upshift Indicator

This symbol indicates that lower gear position is selected for vehicle's current speed and / or engine revolution. Changing to higher gear position is recommended.

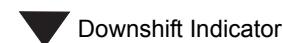


#### Stay Indicator

This symbol indicates that current gear position is optimal for vehicle's current speed and / or engine revolution. No gear shifting is required.

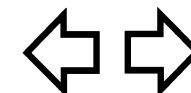
#### NOTE:

*While driving in optimal gear position, the upshift/downshift indicator does not appear.*



This symbol indicates that higher gear position is selected for the vehicle's current speed and / or engine revolution. Changing to lower gear position is recommended.

### Turn Signal Indicators



53M-04-084

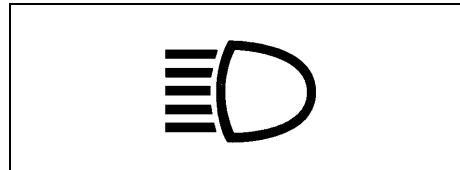
When you turn on the left or right turn signals, the corresponding green arrow on the instrument panel will flash along with the respective turn signal lights. When you turn on the hazard warning switch, both arrows will flash along with all of the turn signal lights.

#### NOTE:

*If any abnormality of the turn signals is observed such as fast blinking, there may be malfunction in the turn signal system. Ask your Maruti Suzuki authorized workshop to inspect the system.*

## BEFORE DRIVING

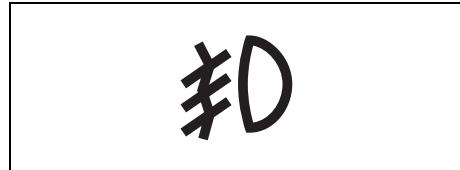
### Main Beam (high beam) Indicator Light



53M-04-085

This indicator comes on when headlight main beams (high beams) are turned on.

### Front Fog Light Switch (if equipped)



53M-04-086

The front fog light comes on when front fog light operates.

### Depress Brake Pedal Indicator (if equipped)



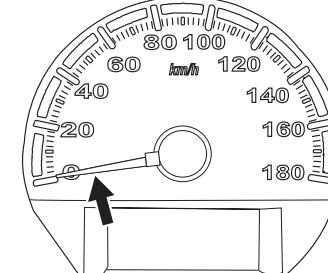
76MH0A047

Refer to "Auto Gear Shift" in the "OPERATING YOUR VEHICLE" section for details.

### Speedometer

#### Type A

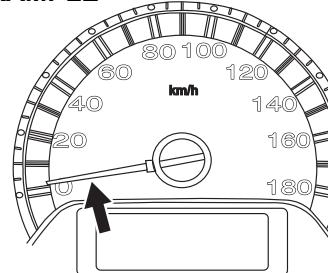
##### EXAMPLE



53M-04-088

#### Type B

##### EXAMPLE



53M-04-089

The speedometer indicates vehicle speed in km/h.

## BEFORE DRIVING

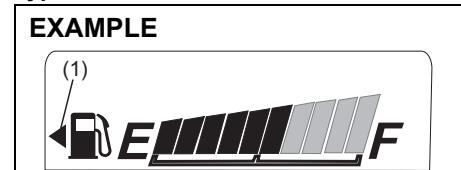
### Speed Alert System

The speed alert system gives audible warning for alert of over-speed to driver. When vehicle speed exceeds about 80 km/h, primary level warning with two beeps will sound every minute. When the vehicle speed exceeds about 120 km/h, secondary level warning with continuous beeps will sound. If the vehicle speed is slowed down to about 118 km/h, primary warning will resume. If the vehicle speed is slowed down to about 78 km/h, speed alert warning will stop. This buzzer does not indicate any malfunction in vehicle.

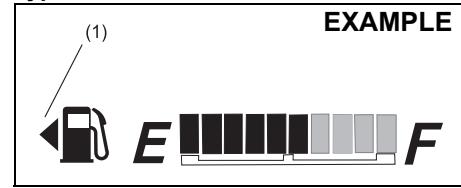
### Fuel Gauge

#### Manual Transaxle

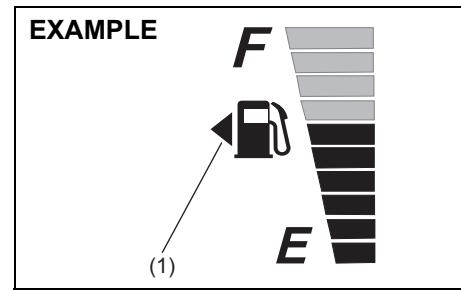
##### Type 1



##### Type 2



#### Auto Gear Shift



When the ignition switch is in the "ON" position, this gauge gives an approximate indication of the amount of fuel in the fuel tank. "F" stands for full and "E" stands for empty.

The mark (1) indicates that the fuel filler door is located on the left side of the vehicle.

When the fuel meter indicator shows only one segment to "E", refill the tank as soon as possible.

### NOTICE

To minimize the possibility of damage to catalytic converter or other components of the vehicle, avoid driving the vehicle near empty fuel tank level.

#### NOTE:

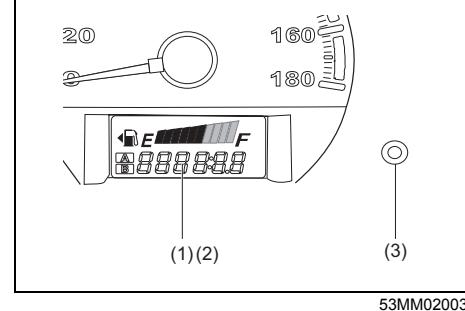
- If the last segment blinks, it means that the fuel is almost empty.
- The fuel meter indicator varies depending on road conditions (for example, slope or curve) and driving conditions because of fuel moving in the tank.

## BEFORE DRIVING

### Information Display

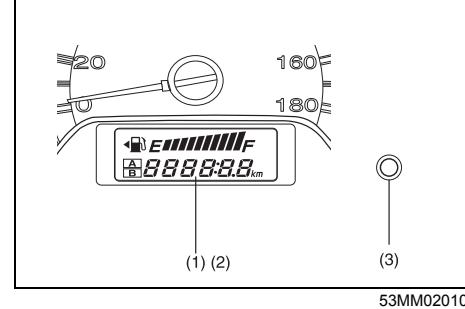
#### Type A

##### EXAMPLE



#### Type B

##### EXAMPLE

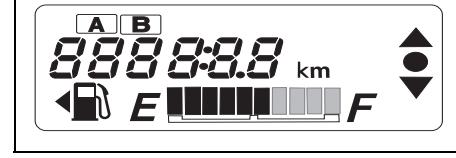


- (1) Clock (if equipped)
- (2) Odometer/Trip meter
- (3) Odometer/Trip meter/Meter illumination control knob

### Manual transaxle

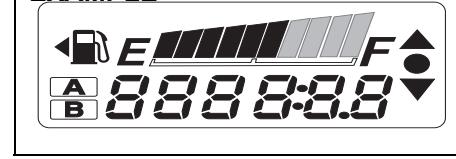
#### Type 1

##### EXAMPLE



#### Type 2

##### EXAMPLE



### Auto Gear Shift

##### EXAMPLE



### ! WARNING

If you attempt to adjust the display while driving, you could lose control of the vehicle.

Do not attempt to adjust the display while driving.

### Clock (1) (if equipped)

The clock is shown when the ignition switch is in the "ON" position. To set the clock, follow the instructions below.

- Hold in the indicator selector and meter illumination control knob (3) for more than 2 seconds. Push the indicator selector and meter illumination control knob (3) to advance the minute display while the minute display is flashing. Release the indicator selector and meter illumination control knob (3) for 5 seconds to set the minute display.
- The hour display flash after the minute display is set. Push the indicator selector and meter illumination control knob (3) to advance the hour display. Release the indicator selector and meter illumination control knob (3) for 5 seconds to set the hour display.

### Odometer/Trip meter (2)

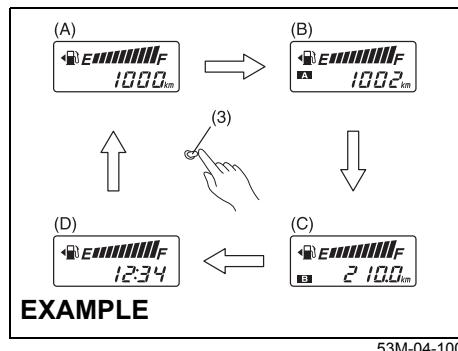
The odometer/trip meter is shown when the ignition switch is in the "ON" position. The odometer records the total distance the vehicle has been driven. The trip meter

## BEFORE DRIVING

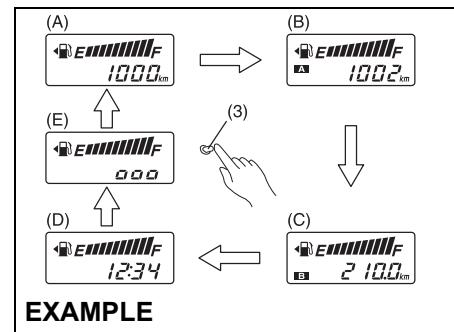
can be used to measure the distance traveled on short trips or between fuel stops.

### NOTICE

Keep track of your odometer reading and check the maintenance schedule regularly for required services. Increased wear or damage to certain parts can result from failure to perform required services at the proper mileage intervals.

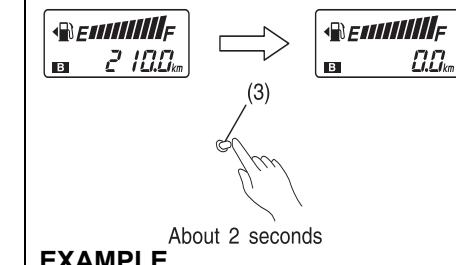


When the ignition switch is turned to "ON" with the lighting switch in the "OFF" position, the display shows three types of indication; odometer (A), trip meter A (B), trip meter B (C) and clock (D). Push the "MODE" knob (3) quickly to switch the indication among the four.



When the ignition switch is turned to "ON" and the position lights, tail lights and/or the headlights are on, the display shows four types of indication; odometer (A), trip meter A (B), trip meter B (C), clock (D) and indication of illumination intensity (E). Push the "MODE" knob (3) quickly to switch the indication among the five. When the indication shows (E), you can control the meter illumination intensity. Refer to "Meter illumination control" section below for details on how to dim or brighten the meter illumination.

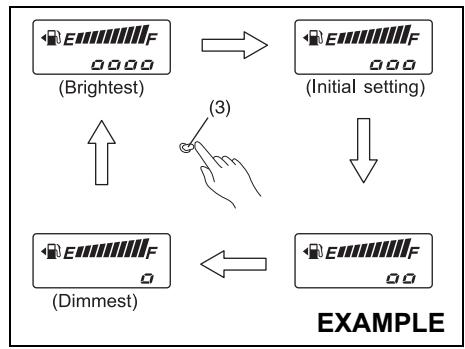
### EXAMPLE



To reset the trip meter to zero, hold in the "MODE" knob (3) for about 2 seconds.

## BEFORE DRIVING

### Meter illumination control



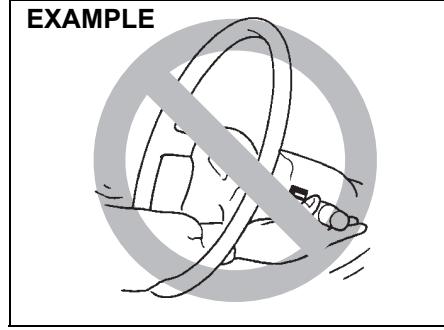
When the display shows the indication of illumination intensity (E), you can dim or brighten the meter illumination.

To change the meter illumination brightness, continue to hold in the "MODE" knob (3). The indication will change as shown in the illustration. The illumination gets dimmer then returns to the brightest condition after it reaches the dimmest.

**NOTE:**

*When you reconnect the negative (-) terminal to the battery, the brightness of the instrument panel lights will be reinitialized. Readjust the brightness according to your preference.*

### Lighting Control Lever

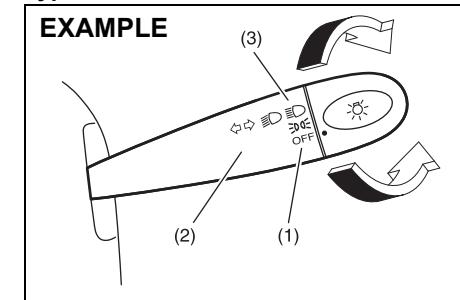


**! WARNING**

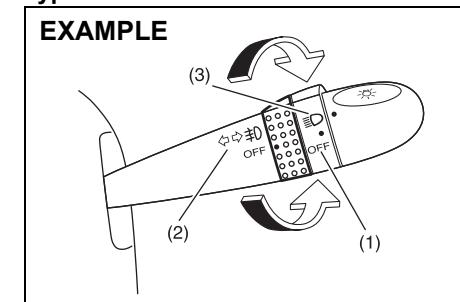
To avoid possible injury, do not operate controls by reaching through the steering wheel.

### Lighting Operation

#### Type 1



#### Type 2



To turn the lights on or off, twist the knob on the end of the lever. There are three positions:

**OFF (1)**

All lights are off.

## BEFORE DRIVING

 (2)

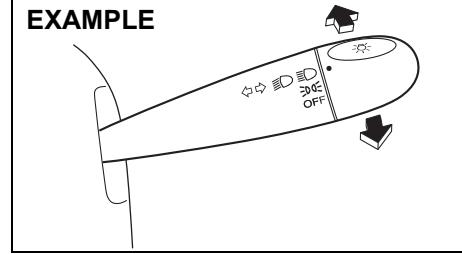
Front position lights, tail lights, license plate light and instrument lights are on, but headlights are off.

 (3)

Front position lights, tail lights, license plate light, instrument lights and head lights are on.

Type 1

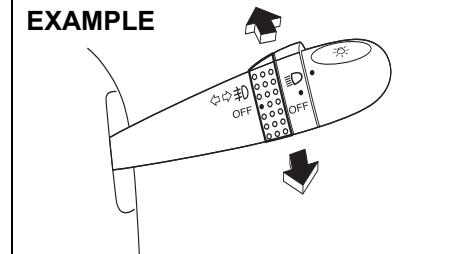
**EXAMPLE**



53M-04-107

Type 2

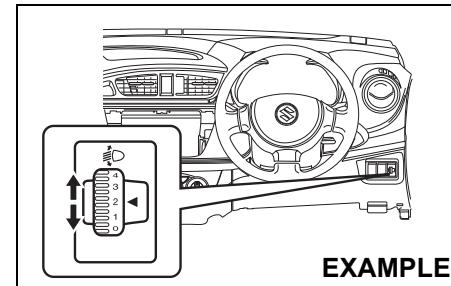
**EXAMPLE**



53M-04-108

With the headlights on, push the lever forward to switch to the high beams (main beams) or pull the lever toward you to switch to the low beams. When the high beams (main beams) are on, a light on the instrument panel will come on. To momentarily activate the high beams (main beams) as a passing signal, pull the lever slightly toward you and release it when you have completed the signal.

### Headlight Leveling Switch



**EXAMPLE**

53MM02017

Level the headlight beam according to the load condition of your vehicle by turning this switch. The chart below shows the appropriate switch position for different vehicle-load conditions.

#### For petrol model

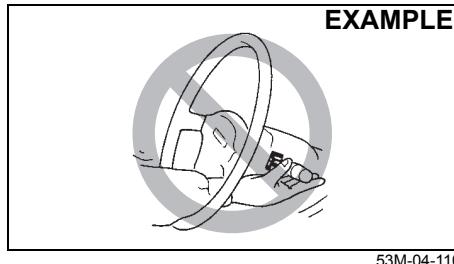
Vehicle Load Condition	Switch Position	
	Alto	Alto K10
Driver only	0	0
Driver + 1 passenger (in front seat)	0	0
Driver + 4 passengers, No cargo	1	2
Driver + 4 passengers, Cargo added	2	3
Driver + Full cargo	3	4

#### For CNG model

Vehicle Load Condition	Switch Position	
	Alto	Alto K10
Driver only	0	0
Driver + 1 passenger (in front seat)	0	0
Driver + 3 passengers, No cargo	1	2

## BEFORE DRIVING

### Turn Signal Control Lever



53M-04-110

#### ⚠ WARNING

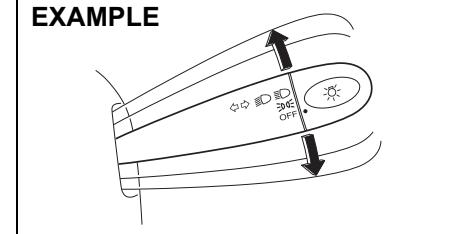
To avoid possible injury, do not operate controls by reaching through the steering wheel.

### Turn Signal Operation

With the ignition switch in the "ON" position, move the lever up or down to activate the right or left turn signals.

### Normal turn signal

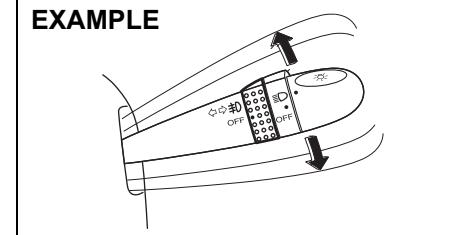
#### Type 1



53M-04-111

Move the lever all the way upward or downward to signal. When the turn is completed, the signal will cancel and the lever will return to its normal position.

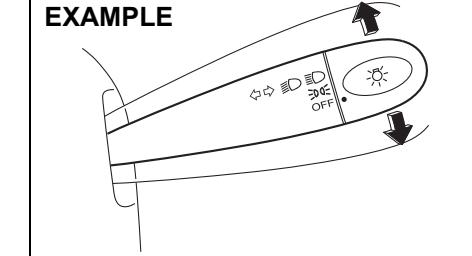
#### Type 2



53M-04-112

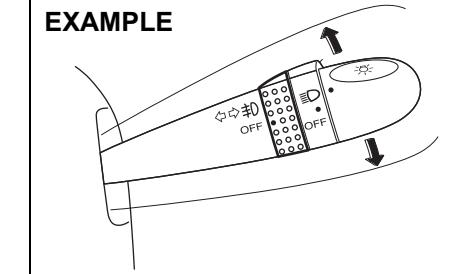
### Lane change signal

#### Type 1



53M-04-113

#### Type 2

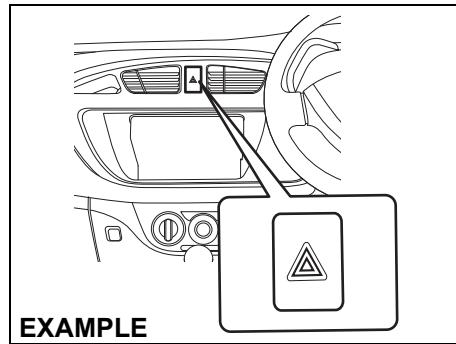


53M-04-114

Sometimes, such as when changing lanes, the steering wheel is not turned far enough to cancel the turn signal. For convenience, you can flash the turn signal by moving the lever part way and holding it there. The lever will return to its normal position when you release it.

## BEFORE DRIVING

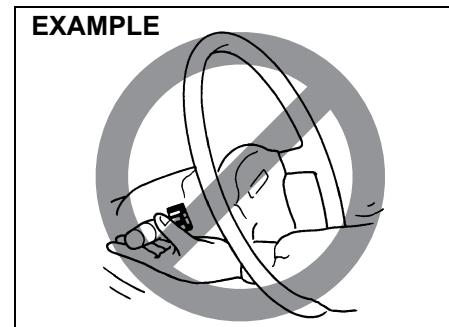
### Hazard Warning Switch



53MM02015

Push in the hazard warning switch to activate the hazard warning lights. All turn signal lights and both turn signal indicators will flash simultaneously. To turn off the lights, push the switch again. Use the hazard warning lights to warn other traffic during emergency parking or when your vehicle could otherwise become a traffic hazard.

### Windshield Wiper and Washer Lever



65D611

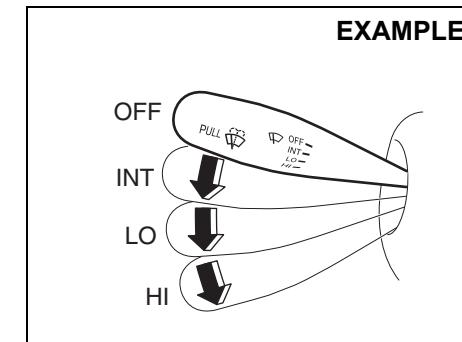
#### ! WARNING

To avoid possible injury, do not operate controls by reaching through the steering wheel.

#### Wiper and Washer Operation

When the ignition switch is in the "ON" position, you can use the wiper/washer lever or switch (if equipped).

### Windshield Wipers



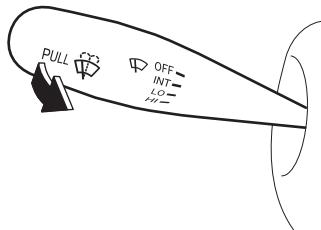
53MH0228

To turn the windshield wipers on, move the lever down to one of the three operating positions. In the "INT" position (if equipped), the wipers operate intermittently. The "INT" position (if equipped) is very convenient for driving in mist or light rain. In the "LO" position, the wipers operate at a steady low speed. In the "HI" position, the wipers operate at a steady high speed. To turn off the wipers, move the lever back to the "OFF" position.

## BEFORE DRIVING

### Windshield Washer

#### EXAMPLE



53MH0229

To spray windshield washer fluid, pull the lever toward you. The windshield wipers will automatically turn on at low speed if they are not already on and the "INT" position is equipped.

#### WARNING

- To prevent windshield icing in cold weather, turn on the defroster to heat the windshield before and during windshield washer use.
- Do not use radiator antifreeze in the windshield washer reservoir. It can severely impair visibility when sprayed on the windshield, and can also damage your vehicle's paint.

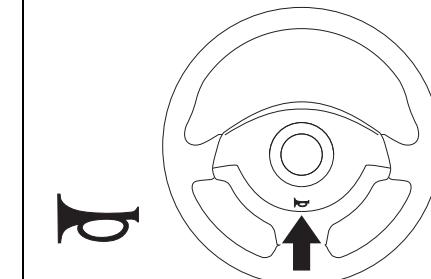
#### NOTICE

To help prevent damage to the windshield wiper and washer system components, you should take the following precautions:

- Do not continue to hold in the lever when there is no windshield washer fluid being sprayed or the washer motor can be damaged.
- Do not attempt to remove dirt from a dry windshield with the wipers or you can damage the windshield and the wiper blades. Always wet the windshield with washer fluid before operating the wipers.
- Clear ice or packed snow from the wiper blades before using the wipers.
- Check the washer fluid level regularly. Check it often when the weather is bad.
- Only fill the washer fluid reservoir 3/4 full during cold weather to allow room for expansion if the temperature falls low enough to freeze the solution.

### Horn

#### EXAMPLE



53MH0230

Press the horn button of the steering wheel to sound the horn. The horn will sound with the ignition switch in any position.

**53MH0-74E**

## OPERATING YOUR VEHICLE

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### OPERATING YOUR VEHICLE

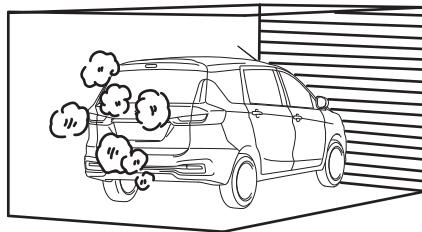
Exhaust Gas Warning .....	3-1
Daily Inspection Checklist .....	3-2
Engine Oil Consumption .....	3-3
Ignition Switch .....	3-3
Parking Brake Lever .....	3-5
Pedal .....	3-6
Starting the Engine .....	3-7
Using the Transaxle .....	3-8
Parking Sensors .....	3-17
Braking .....	3-21

3

## OPERATING YOUR VEHICLE

### Exhaust Gas Warning

#### EXAMPLE



52D334

#### ! WARNING

Avoid breathing exhaust gases. Exhaust gases contain carbon monoxide, a potentially lethal gas that is colorless and odorless. Since carbon monoxide is difficult to detect by itself, be sure to take the following precautions to help prevent carbon monoxide from entering your vehicle.

- Do not leave the engine running in garages or other confined areas, with passengers inside. This may result in accumulation of carbon monoxide in cabin and may lead to suffocation or breathing problems and lead to death.

(Continued)

#### ! WARNING

(Continued)

- Do not park with the engine running for a long period of time, even in an open area. In case of long periods, danger of choking and death on being inside the vehicle is a possibility when the engine is running. If it is necessary to sit for a short time in a parked vehicle with the engine running, make sure the air intake selector is set to "FRESH AIR" and the fan is at high speed.
- Avoid operating the vehicle with the tailgate or trunk open. If it is necessary to operate the vehicle with the tailgate or trunk open, make sure all windows are closed, and the blower is at high speed with the air intake selector set to "FRESH AIR".
- To allow proper operation of your vehicle's ventilation system, keep the air inlet grille in front of the windshield clear of snow, leaves, or other obstructions at all times.

#### ! WARNING

(Continued)

- Keep the exhaust tailpipe area clear of snow and other material to help reduce the buildup of exhaust gases under the vehicle. This is particularly important when parked in blizzard conditions.
- Have the exhaust system inspected periodically for damage and leaks. Any damage or leaks should be repaired immediately.

## OPERATING YOUR VEHICLE

### Daily Inspection Checklist

#### Before Driving

##### EXAMPLE



60A187S

- 1) Make sure that windows, mirrors, lights, and reflectors are clean and unobstructed.
- 2) Visually check the tires for the following points:
  - the depth of the tread groove
  - abnormal wear, cracks and damage
  - loose wheel nuts
  - existence of foreign material such as nails, stones, etc.Refer to "Tires" in "INSPECTION AND MAINTENANCE" section for details.
- 3) Look for fluid and oil leaks.

##### NOTE:

*It is normal for water to drip from the air conditioning system during use.*

- 4) Make sure the hood is fully closed and latched.
- 5) Check the headlights, turn signal lights, brake lights and horn for proper operation.
- 6) Adjust the seat and head restraint (if equipped).
- 7) Check the brake pedal and the parking brake lever.
- 8) Adjust the mirrors.
- 9) Make sure that you and all passengers have properly fastened your seat belts.
- 10) Make sure that all warning lights come on as the key is turned to the "ON" position.
- 11) Check all gauges.
- 12) Make sure that the BRAKE SYSTEM WARNING light turns off when the parking brake is released.

Once a week, or each time you fill your fuel tank, or before a long distance driving (like highway driving) perform the following under-hood checks:

- 1) Engine oil level
- 2) Coolant level
- 3) Brake fluid level
- 4) Windshield washer fluid level
- 5) Battery solution level
- 6) Hood latch operation

Pull the hood release handle inside the vehicle. Make sure that you cannot open the hood all the way without releasing the secondary latch. Be sure to close the hood securely after check-

ing for proper latch operation. See "All latches, hinges & locks" of "CHASSIS AND BODY" in the "Periodic Maintenance Schedule" in the "INSPECTION AND MAINTENANCE" section for lubrication schedule.

##### WARNING

**Make sure the hood is fully closed and latched before driving. If it is not, it can fly up unexpectedly during driving, obstructing your view and resulting in an accident.**

Once a month, or each time you fill your fuel tank, or before a long distance driving (like highway driving), check the tire pressure using a tire pressure gauge. Also check the tire pressure of the spare tire.

## OPERATING YOUR VEHICLE

### Engine Oil Consumption

It is normal for the engine to consume some engine oil during normal vehicle operation.

The amount of engine oil consumed depends on the viscosity of the oil, the quality of the oil and the conditions the vehicle is driven under.

More oil is consumed during high-speed driving and when there is frequent acceleration and deceleration. Under high loads, your engine also will consume more oil.

A new engine also consumes more oil, since its pistons, piston rings and cylinder walls have not yet become conditioned. New engines reach the normal level of oil consumption only after approximately 5000 km (3000 miles) driving.

#### Oil consumption: Max. 1.0 L per 1000 km

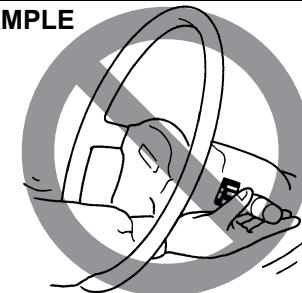
When judging the amount of oil consumption, note that the oil may become diluted and make it difficult to accurately judge the true oil level.

As an example, if a vehicle is used for repeated short trips, and consumes a normal amount of oil, the dipstick may not show any drop in the oil level at all, even after 1000 km or more of driving. This is because the oil is gradually becoming diluted with fuel or moisture, making it appear that the oil level has not changed.

You should also be aware that the diluting ingredients evaporate out when the vehicle is subsequently driven at high speeds, such as on an expressway, making it appear that oil is excessively consumed after high-speed driving.

### Ignition Switch

#### EXAMPLE



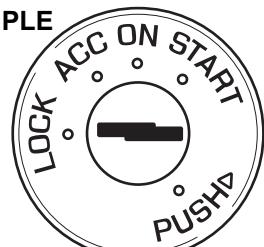
65D611

#### WARNING

To avoid possible injury, do not operate controls by reaching through the steering wheel.

## OPERATING YOUR VEHICLE

### EXAMPLE



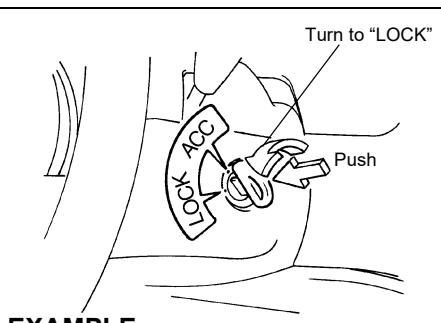
52KM052

The ignition switch has the following four positions:

#### LOCK

This is the normal parking position. It is the only position in which the key can be removed.

### EXAMPLE



60G033

It locks the ignition, and prevents normal use of the steering wheel after the key is removed.

To release the steering lock, insert the key and turn it clockwise to one of the other positions. If you have trouble turning the key to unlock the steering, try turning the steering wheel slightly to the right or left while turning the key.

#### ACC

Accessories such as the radio can operate, but the engine is off.

#### ON

This is the normal operating position. All electrical systems are on.

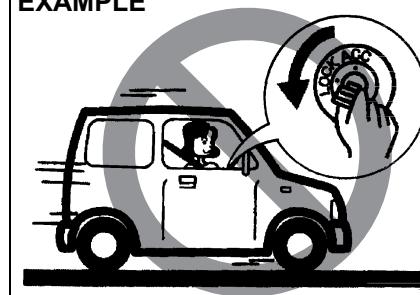
#### START

This is the position for starting the engine using the starter motor. The key should be released from this position as soon as the engine starts.

#### Ignition key reminder (if equipped)

A buzzer sounds intermittently to remind you to remove the ignition key if it is in the ignition switch when the driver's door is opened.

### EXAMPLE



81A297S

#### WARNING

- Never remove the ignition key while the vehicle is moving. The steering wheel will lock and you will not be able to steer the vehicle.
- Always remove the ignition key when leaving the vehicle even if only for a short time. Also do not leave children alone in a parked vehicle. Unattended children could cause accidental movement of the vehicle or could tamper with power windows. They also could suffer from heat stroke in warm or hot weather. These could result in severe injury or even death.

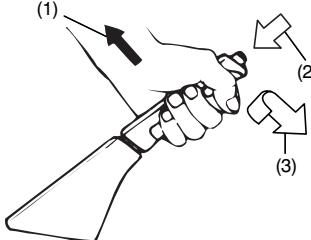
## OPERATING YOUR VEHICLE

### NOTICE

- Do not use the starter motor for more than 15 seconds at a time. If the engine does not start, wait 15 seconds before trying again. If the engine does not start after several attempts, check the fuel and ignition systems or consult your Maruti Suzuki authorised workshop.
- Do not leave the ignition switch in the "ON" position if the engine is not running as the battery will discharge.

### Parking Brake Lever

#### EXAMPLE



60MHM03001

- (1) To set
- (2) To release
- (3) To release

The parking brake lever is located between the front seats. To set the parking brake, hold the brake pedal down and pull the parking brake lever all the way up. To release the parking brake, hold the brake pedal down, pull up slightly on the parking brake lever, push the button on the end of the lever with your thumb, and lower the lever to its original position.

### WARNING

- Never drive your vehicle with the parking brake on: rear brake effectiveness can be reduced from overheating, brake life may be shortened, or permanent brake damage may result.
- If the parking brake does not hold the vehicle securely or does not fully release, have your vehicle inspected immediately by a Maruti Suzuki authorised workshop.

### WARNING

Always set the parking brake fully before leaving your vehicle or it may move, causing injury or damage. When parking, make sure the gear-shift lever is in 1st gear. Remember, even though the transaxle is in gear, you must set the parking brake fully.

## OPERATING YOUR VEHICLE

### ⚠ WARNING

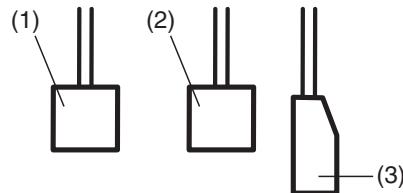
When parking the vehicle in extremely cold weather, the following procedure should be used:

- 1) Set the parking brake.
- 2) Manual transmission - Turn off the engine, then shift into reverse or first gear, with ignition key "ON" position.  
Auto Gear Shift - Shift into reverse or first gear and check the gear position indicator in the instrument cluster to make sure that the transaxle is engaged in 1st or reverse, then turn the ignition switch "LOCK" position.
- 3) Get out of the vehicle and put chocks under the wheels.
- 4) Release the parking brake.  
When you return to your vehicle, you must remember to first set the parking brake, then remove the wheel chocks.

### Pedal

#### Manual Transaxle

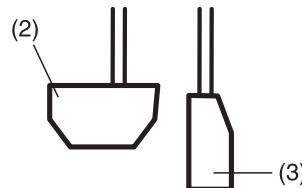
##### EXAMPLE



80J2121

#### Auto Gear Shift

##### EXAMPLE



53M05009

### Clutch Pedal (1) (For manual transaxle)

The clutch pedal is used to disengage the drive to the wheels when starting the engine, stopping, or shifting the gearshift lever. Depressing the pedal disengages the clutch.

### ⚠ WARNING

Do not drive with your foot resting on the clutch pedal. It could result in excessive clutch wear, clutch damage, or unexpected loss of engine braking.

### Brake Pedal (2)

Your MARUTI SUZUKI vehicle is equipped with front disc brakes and rear drum brakes. Depressing the brake pedal applies both sets of brakes.

You may hear occasional brake squeal when you apply the brakes. This is a normal condition caused by environmental factors such as temperature, humidity, snow or dust, etc.

Auto Gear Shift - You may hear occasional sound when you release brake pedal while vehicle is in "D" (Drive) mode and about to move. This is a normal phenomenon.

## OPERATING YOUR VEHICLE

### ⚠ WARNING

If brake squeal is excessive and occurs each time the brakes are applied, you should have the brakes checked by your Maruti Suzuki authorised workshop.

### ⚠ WARNING

Do not "ride" the brakes by applying them continuously or resting your foot on the brake pedal. This will result in overheating of the brakes which could cause unpredictable braking action, longer stopping distances, or permanent brake damage.

### ⚠ WARNING

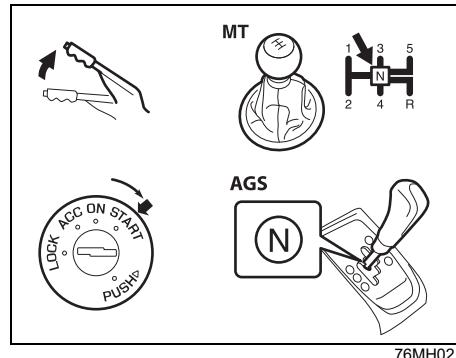
For automatic transaxle - You may hear occasional sound when you slowly release brake pedal while vehicle in "D" (Drive) mode. This is normal as vehicle's tendency is to move slowly and brakes are trying to stop the vehicle simultaneously.

### Accelerator Pedal (3)

This pedal controls the speed of the engine. Depressing the accelerator pedal increases power output and speed.

## Starting the Engine

### Before Starting the Engine



76MH021

- 1) Make sure the parking brake is set fully.
- 2) Shift into "N" (Neutral) and depress the clutch pedal all the way to the floor. Hold the clutch pedal while starting the engine.  
Auto Gear Shift – Shift into "N" (Neutral) and depress the brake pedal. Hold the brake pedal while starting the engine.

### ⚠ WARNING

Make sure that the parking brake is set fully and the transaxle is in Neutral before attempting to start the engine.

## Starting a Cold and Warm Engine

With your foot off the accelerator pedal, crank the engine by turning the ignition key to "START". Release the key when the engine starts.

### NOTICE

- Stop turning the starter immediately after the engine has started or the starter system may be damaged.
- Do not crank the engine for more than 15 seconds at a time. If the engine doesn't start on the first try, wait about 15 seconds before trying again.

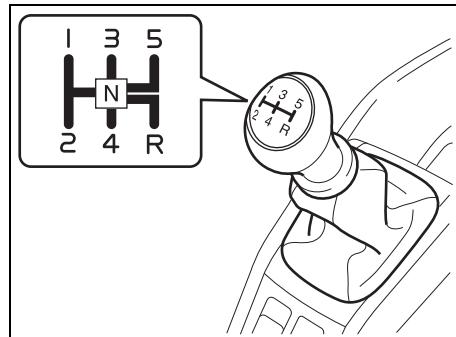
If the engine does not start after 15 seconds of cranking, wait about 15 seconds, then press down the accelerator pedal to 1/3 of its travel and try cranking the engine again. Release the key and accelerator pedal when the engine starts.

If the engine still does not start, try holding the accelerator pedal all the way to the floor while cranking. This should clear the engine if it is flooded.

## OPERATING YOUR VEHICLE

### Using the Transaxle

#### Manual Transaxle



53MM03002

#### Starting off

To start off, depress the clutch pedal all the way to the floor and shift into 1st gear. After releasing the parking brake, gradually release the clutch. When you hear a change in the engine's sound, slowly press the accelerator while continuing to gradually release the clutch.

#### Shifting

All forward gears are synchronized, which provides for quiet and easy shifting. Always push in the clutch pedal fully before shifting gears.

#### Downshifting maximum allowable speeds

##### For F8D engine

Downshifting	km/h (mph)
2nd to 1st	35 (22)
3rd to 2nd	65 (40)
4th to 3rd	100 (62)
5th to 4th	OK at all

##### For K10B engine

Downshifting	km/h (mph)
2nd to 1st	35 (22)
3rd to 2nd	80 (50)
4th to 3rd	120 (75)
5th to 4th	OK at all

#### WARNING

- Reduce your speed and downshift to a lower gear before going down a long or steep hill. A lower gear will allow the engine to provide braking. Avoid riding the brakes or they may overheat, resulting in brake failure.
- When driving on slippery roads, be sure to slow down before downshifting. Excessive and/or sudden changes in engine speed may cause loss of traction, which could cause you to lose control.

#### NOTICE

Before engaging reverse gear [R], check that the vehicle is completely stationary and gear lever is in neutral [N] position. After depressing clutch pedal fully, shift to [R].

#### NOTICE

When downshifting to a lower gear, make sure not to downshift at a speed faster than the maximum allowable speeds, or severe engine damage may result.

Keep the engine speed so it does not get into the red zone of tachometer.

#### NOTE:

If it is difficult to engage reverse gear [R], follow below procedure.

1. Put gear lever in neutral [N].
2. Release clutch pedal once.
3. Again depress the clutch pedal and shift from [N] to [R].

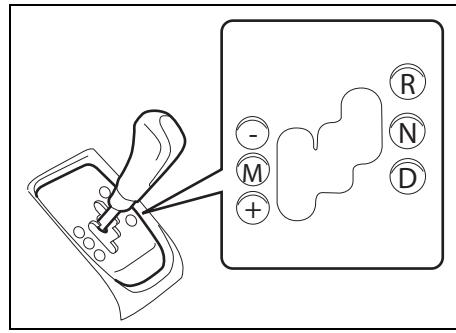
## OPERATING YOUR VEHICLE

### NOTICE

- To help avoid clutch damage, do not use the clutch pedal as a foot-rest while driving or use the clutch to keep the vehicle stationary on a slope. Depress the clutch fully when shifting.
- When shifting or starting off, do not race the engine. Racing the engine can shorten engine life and affect smooth shifting.

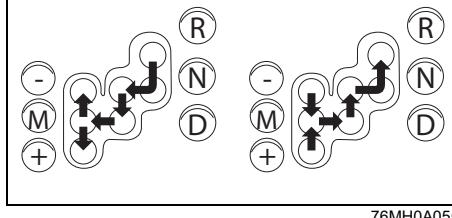
### Auto Gear Shift

Auto Gear Shift is a 5-speed forward/reverse transaxle. Auto Gear Shift has the basic features of conventional manual transaxle, but clutch operation and transaxle gear shifting are controlled electronically. The features are as follows:



76MH0A054

### EXAMPLE



Depress brake pedal indicator  
(if equipped)



76MH0A047

This light will come on if you do not depress the brake pedal in the following situations.

- When starting the engine.
- When the engine is on and the gearshift lever is shifted from "N" position to "D", "M" or "R" position.
- When the ignition switch is in the "ON" position and the engine is off, the gearshift lever is shifted into any position.

### Starting the engine

When starting the engine, always place the gearshift lever in the "N" position and depress the brake pedal firmly. The engine cannot be started unless the gearshift lever is in the "N" position and the brake pedal is depressed.



76MH0A056

### Clutch operation

You can select either the Drive (D) mode or the Manual (M) mode. Since this vehicle controls clutch operation electronically in either mode, you do not need to operate the clutch.

### Creeping function

This vehicle has a creeping function that helps the vehicle to start smoothly by engaging the clutch. When the gearshift lever is in any of the positions "D", "M" or "R", and you release your foot from the brake pedal, the vehicle starts slowly without depressing the accelerator pedal. The creeping function is disabled if you depress the brake pedal or pull up the parking brake lever.

## OPERATING YOUR VEHICLE

### NOTE:

If the driver's door is opened and/or the parking brake lever is engaged with the gear in the "M", "D" or "R" position, the creeping function will not operate.

### Parking and Stopping the vehicle

Auto Gear Shift does not have a parking position. The vehicle can be parked with the gearshift lever in any position. When stopping the vehicle, the gear will be shifted to 1st.

#### NOTICE

A buzzer will sound continuously if the vehicle is operated with the gearshift lever in-between of each shift positions. The vehicle will become inoperative if you continue to operate the vehicle with the gearshift lever in between shift positions.

### Drive (D) mode

When the Drive (D) mode is activated, the most appropriate gear position is automatically selected upon operation of the accelerator pedal and variation of vehicle speed.

#### Normal driving:

- 1) Start the engine as instructed in "Starting the engine" in this section.
- 2) With your foot on the brake pedal, shift the gearshift lever to the "D" position. When the gearshift lever is shifted to

the "D" position, the gear will be shifted to 1st.



76MH0A057

### NOTE:

- If 1st gear cannot be engaged even though the gearshift lever has been shifted from the "N" to the "D" position, the system will re-try shifting automatically. This will take some time, noise may be heard from the gears, and shifting gear shock may occur. However, they do not indicate a malfunction.
- The "N" indicator will flash, the depress brake pedal indicator will come on and a warning buzzer (long pulse sound) will sound if any of the following cases occur;
  - If you shift the gearshift lever from the "N" to the "D" position without depressing the brake pedal
  - If the system is unable to re-try shifting You should depress the brake pedal and shift the gearshift lever to "N" position, then shift to "D" again.
- 3) Release the parking brake and brake pedal.
- 4) Depress the accelerator pedal slowly.

#### WARNING

- While driving the vehicle, do not shift the gearshift lever to the "N" position. The engine brake may not work and you may get involved in an unexpected accident. If you return the gearshift lever from "N" to "D" because of unintended shifting, the gear position will be shifted according to the current vehicle speed.
- Always keep your foot on the brake pedal while stopped with the engine running. This operation prevents the vehicle from moving due to unintended activation of the creeping function.

#### NOTICE

If the gearshift lever cannot shift into any position, or the gear is changed to "N" position automatically when the vehicle speed becomes less than 10 km/h, there may be a system malfunction. In this case, ask your Maruti Suzuki authorised workshop to inspect the Auto Gear Shift system as soon as possible.

## OPERATING YOUR VEHICLE

<b>NOTICE</b>
<p><b>Do not operate the system as described below. The life cycle of the clutch may be reduced.</b></p> <ul style="list-style-type: none"><li>• Using the accelerator pedal to hold the vehicle on an uphill slope with the gearshift lever in the “D” or “M” position. If you perform this operation for a certain period of time, a warning buzzer will sound.</li><li>• Shifting the gearshift lever to the “D”, “M” or “R” position while racing the engine.</li><li>• Driving at low speed using a high gear.</li><li>• Holding the vehicle on an uphill slope using the creeping function. If you perform this operation for a certain period of time, a warning buzzer will sound.</li></ul>
<b>NOTICE</b>
<p><b>Operate your Auto Gear Shift vehicle with one foot only. driving your auto gear shift vehicle with accelerator and brake pedals depressed together will cause overheating of the clutch.</b></p>

### Starting off on an uphill/downhill:

#### Uphill

- 1) Apply the parking brake firmly so that the vehicle does not roll backwards.
- 2) Shift the gearshift lever to the “D” position while depressing the brake pedal. Make sure that the gear position indicator in the instrumental cluster displays 1st gear.
- 3) Release the brake pedal and depress the accelerator pedal gradually, and when the vehicle starts to move, release the parking brake and depress the accelerator pedal to start off.

<b>NOTICE</b>
<p><b>On an uphill slope, never hold the vehicle at a stop using only the accelerator pedal or the creeping function. If you perform this operation for a certain period of time, a warning buzzer will sound, and in some cases the engine will stall. This can also cause excessive damage to the clutch.</b></p>

#### Downhill

- 1) Depress the brake pedal and shift the gearshift lever to the “D” position. Make sure that the gear is in 1st by checking the gear position indicator.
- 2) Release the brake pedal and depress the accelerator pedal slowly. Even if the accelerator pedal is not depressed, the clutch will be engaged when the vehicle speed increases.

#### Using engine braking:

When driving on a downhill slope, downshifting is recommended. So you can use engine braking.

By placing the gearshift lever in the “M” position, the Manual (M) mode is selected, and you can shift to a lower gear manually. For details of downshift operation, refer to “Upshift and downshift” in the “Manual (M) mode”.

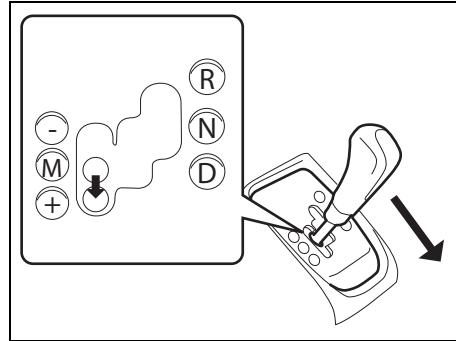
#### Manual (M) mode

The gears are not shifted automatically. To shift the transaxle, the driver must operate the gearshift lever to the “+” or “-” direction. As for conventional manual transaxle vehicles, releasing the accelerator pedal a little may help the transaxle to shift smoothly.

## OPERATING YOUR VEHICLE

### Upshift and downshift:

#### Upshifting

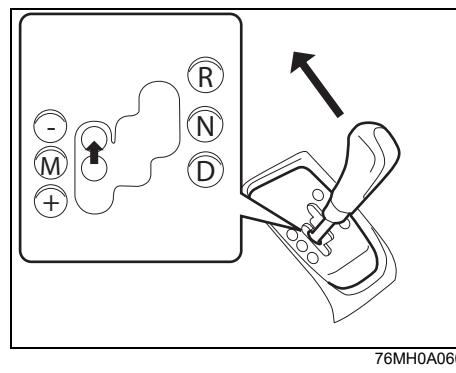


Pull the gearshift lever to the "+" direction and release it. Every time the lever is operated, the transaxle is upshifting 1 step in the order of 1st → 2nd → 3rd → 4th → 5th gear.

$1^M \rightarrow 2^M \rightarrow 3^M \rightarrow 4^M \rightarrow 5^M$

76MH0A059

#### Downshifting



Push the gearshift lever to the “-” direction and release it. Every time the lever is operated, the transaxle is downshifted in the order 5th → 4th → 3rd → 2nd → 1st gear.

$5^M \rightarrow 4^M \rightarrow 3^M \rightarrow 2^M \rightarrow 1^M$

76MH0A061

The gear position is displayed on the gear position indicator. The gear position indicator shows the transaxle gear position. Before starting off, always check the gear position indicator to make sure that the transaxle is engaged in 1st or reverse, then depress the accelerator pedal.

#### NOTE:

- To downshift smoothly, the engine runs fast in some cases. This is done intentionally by the system and is not a malfunction.
- When driving down a hill, downshift and use the engine braking appropriately. If necessary, continuous downshifting is possible. However, if downshifting more than 3 steps, gear shifting will take more time.
- When the gear is shifting, a noise can be heard in some case. This is not a malfunction.

## OPERATING YOUR VEHICLE

<b>! WARNING</b>	<b>NOTICE</b>
<ul style="list-style-type: none"><li>• Be careful when accelerating, upshifting, downshifting or braking on a slippery surface. Sudden acceleration or engine braking could cause the vehicle to spin or skid.</li><li>• To drive down a long or steep hill, reduce your speed and downshift. Remember, if you ride the brakes excessively, they may overheat and fail.</li><li>• While driving the vehicle, do not shift the gearshift lever to "N" position. The engine brake may not work and you may get involved in an unexpected accident. If you return the gearshift lever from "N" to "M" because of unintended shifting, the gear position will be shifted according to the current vehicle speed.</li><li>• Do not apply the parking brake while driving. Otherwise, it could cause a skid and you may get involved in an unexpected accident.</li></ul>	<ul style="list-style-type: none"><li>• If the gearshift lever cannot shift into any position, or the gear is changed to "N" position automatically when the vehicle speed becomes less than 10 km/, there may be a system malfunction. In this case, ask your Maruti Suzuki authorised workshop to inspect the Auto Gear Shift system as soon as possible.</li><li>• The manual (M) mode does not upshift even if the engine speed reaches the rev-limit.</li><li>• The system will not allow shifting up or down to a gear that would cause engine over-revving or under-revving.</li><li>• If frequently driving at low speed using a high gear position, the life cycle of the clutch may be reduced.</li><li>• Frequent downshifting (more than 3 positions consecutively) causes the reduction of transaxle life.</li></ul>

### Starting off:

- 1) Start the engine as instructed in "Starting the engine" in this section.
- 2) With your foot on the brake pedal, shift the gearshift lever to the "M" position. When the gearshift lever is shifted to the "M" position, the gear will be shifted to 1st. Before starting off, always make sure that the intended gear is engaged by checking the gear position indicator, then depress the accelerator pedal.

### NOTE:

- If 1st gear cannot be engaged even though the gearshift lever has been shifted from the "N" to the "M" position, the system will re-try shifting automatically. This will take some time, noise may be heard from the gears, and shifting gear shock may occur. However, they do not indicate a malfunction.
- The "N" indicator will flash, the depress brake pedal indicator will come on and a warning buzzer (long pulse sound) will sound if any of the following cases occur;
  - If you shift the gearshift lever from the "N" to the "M" position without depressing the brake pedal
  - If the system is unable to re-try shifting You should depress the brake pedal and shift the gearshift lever to "N" position, then shift to "M" position again a few seconds later.

## OPERATING YOUR VEHICLE

- 3) Release the parking brake and brake pedal. Depress the accelerator pedal slowly for smooth starting.

### ⚠ WARNING

Always keep your foot on the brake pedal or pull up the parking lever while stopped with the engine running. These operations prevent the vehicle from starting due to unintended activation of the creeping function.

### NOTICE

Do not operate the system as described below. The life cycle of the clutch may be reduced.

- Using the accelerator pedal to hold the vehicle on an uphill slope operation with the gearshift lever in the "M" or "D" position. If you perform this operation for a certain period of time, a warning buzzer will sound.
- Shifting the gearshift lever to the "M", "D" or "R" position while racing the engine.
- Driving at low speed using a high gear.
- Stopping on a slope using the creeping function. If you perform this operation for a certain period of time, a warning buzzer will sound.

### NOTICE

Operate your Auto Gear Shift vehicle with one foot only. Driving your auto gear shift vehicle with accelerator and brake pedals depressed together will cause overheating of the clutch.

### Starting off on an uphill/downhill slope:

#### Uphill

- 1) Apply the parking brake firmly so that the vehicle does not roll backwards.
- 2) Shift the gearshift lever to the "M" position while depressing the brake pedal. Make sure that the gear position indicator in the instrumental cluster displays 1st gear.
- 3) Release the brake pedal and depress the accelerator pedal gradually, and when the vehicle starts to move, release the parking brake and depress the accelerator pedal to start off.

### NOTICE

On an uphill slope, never hold the vehicle at a stop using only the accelerator pedal or creeping function. If you perform this operation for a certain period of time, a warning buzzer will sound, and in some cases the engine will stall. This can also cause excessive damage to the clutch.

#### Downhill

- 1) Depress the brake pedal and shift the gearshift lever to the "M" position. Check the gear position indicator to make sure that the gear is in 1st.
- 2) Release the brake pedal and depress the accelerator pedal slowly. Even though the accelerator pedal is not

## OPERATING YOUR VEHICLE

depressed, the clutch will be engaged when the vehicle speed increases.

### Backing up

After the vehicle has stopped completely, depress the brake pedal and shift the gearshift lever to the "R" position. Depress the accelerator pedal slowly as when starting off in 1st gear. Before backing up, make sure that reverse gear is selected by checking the gear position indicator.



76MH0A062

#### NOTE:

- If reverse gear cannot be engaged even though the gearshift lever has been shifted from the "N" to the "R" position, the system will re-try shifting automatically. This will take some time, noise may be heard from the gears, and shifting gear shock may occur. However, they do not indicate a malfunction.
- The "N" indicator will flash, the depress brake pedal indicator will come on and a warning buzzer (long pulse sound) will sound if any of the following cases occur;
  - If you shift the gearshift lever from the "N" to the "R" position without depressing the brake pedal
  - If the system is unable to re-try shifting

*You should depress the brake pedal and shift the gearshift lever to "N" position, then shift to "R" position again a few seconds later.*

- *The system will not allow shifting to the "R" position if the vehicle speed is over about 3 km/h. If the gearshift lever is operated under this condition, the "N" indicator in the instrument cluster will blink. However, when the vehicle speed drops below about 3 km/h, the gear will be shifted to reverse. Make sure that the vehicle has stopped completely before shifting to the "R" position.*

### NOTICE

On a downhill slope, never hold the vehicle at a stop using only the accelerator pedal or the creeping function. If you perform this operation for a certain period of time, a warning buzzer will sound, and in some cases the engine will stall. This can also cause excessive damage to the clutch.

### Stopping

The vehicle can be stopped by depressing the brake pedal regardless of the gear position. This is because the clutch is automatically disengaged to prevent the engine from stopping.

- If the gearshift lever is in the "D" position, the gear will be downshifted to 1st when the vehicle stops.

- If the gearshift lever is in the "M" position, the gear will be downshifted to 1st when the vehicle stops.

### WARNING

- When stopping, for example, at a traffic light, be sure to depress the brake pedal firmly. For your safety, apply the parking brake, too, when stopping on a hill.
- When racing the engine, make sure that the gear is in the "N" position by checking the gear position indicator. If the accelerator is operated with the gear in any other position, the vehicle may move resulting in an unexpected accident.
- Do not leave your vehicle unattended while the engine is running.
- When leaving the vehicle, stop the engine and park the vehicle with a gear engaged. If you need to leave the vehicle with the engine running, apply the parking brakes firmly, and shift the gearshift lever to the "N" position. Otherwise, the vehicle may move unexpectedly and may cause an accident.

## OPERATING YOUR VEHICLE

### NOTICE

- On a slope, never hold the vehicle at a stop using only the accelerator pedal or the creeping function. If you perform this operation for a certain period of time, a warning buzzer will sound, and in some cases the engine will stall. This can also cause excessive damage to the clutch.
- If the gearshift lever is operated more than necessary, the system may not allow operation of the gearshift lever for a certain period of time, and the gear may not be shifted appropriately. Therefore, do not operate the gearshift lever if not necessary.

### Parking

Unlike an automatic transaxle, Auto Gear Shift does not have a parking position. The vehicle can be parked with the gearshift lever in any position.

- 1) Apply the parking brake firmly and turn the ignition "ON" position.
- 2) While depressing the brake pedal, shift the gearshift lever to the "R" position on a downhill slope, and to the 1st position in the drive (D) mode or the "M(1)" position in the manual (M) mode on an uphill slope and confirm the gear position by checking the gear position indicator.
- 3) Turn the ignition switch to "LOCK" position.

#### NOTE:

- After the ignition switch is turned to "ACC" or "LOCK" position after the vehicle is stopped, the gear in the transaxle does not change even if you shift the gearshift lever in any position. Always shift the gearshift lever before stopping the engine.
- Check the transaxle gear position by looking at the gear position indicator, then turn the ignition switch off to stop the engine. Release the brake pedal after a few seconds.

### WARNING

- If the gear is not engaged properly and completely before the ignition switch is turned off, the vehicle may not be parked with the gear engaged. Always confirm the gear position by checking the gear position indicator when parking.
- On a downhill slope, the gear should be put in reverse, and in 1st gear on an uphill slope. Otherwise, the vehicle may move, and cause an unexpected accident. If the gear is left in the "N" position, the vehicle cannot be parked with a gear engaged.

## OPERATING YOUR VEHICLE

### Parking cancel

Depress the brake pedal, turn the ignition switch to the "ON" position, and shift the gearshift lever to the "N" position. The gear will be disengaged.

### Warning functions

A warning buzzer will sound or the indicator will blink under the following conditions.

- The clutch is heated due to excessive load.
- The creeping function is being activated for a long period of time.

#### NOTICE

In the above cases, pull over to the side of the road and stop the engine, and then ask your Maruti Suzuki authorised workshop to inspect your vehicle. Otherwise, the clutch disc may get damaged.

- The ignition switch is turned to the "OFF" position with the gear in 2nd, 3rd, 4th or 5th. In this case, turn the ignition switch to the "ON" position and shift the gearshift lever in the "N" position, shift it to the "D" or "M" or "R" position, then turn the ignition switch to "OFF".
- During a stop, the driver's door is opened with the gearshift lever in the "R", "D" or "M" position while the engine is running.

### "N" indicator blinking

When the gear indicator lamp blinks "N", you should depress the brake pedal and shift the gearshift lever to "N" position.

### "1st" indicator blinking

When the gear indicator lamp blinks "1st", you should depress the brake pedal and shift the gearshift lever to "N" position, then shift to "D" or "M" position again a few seconds later.

### "R" indicator blinking

When the gear indicator lamp blinks "R", you should depress the brake pedal and shift the gearshift lever to "N" position, then shift to "R" position again a few seconds later.

### Parking sensors

- The parking sensor system uses ultrasonic sensors to detect obstacles near the rear bumper. If obstacles are sensed while you are parking or moving the vehicle slowly, the system warns you by sounding a buzzer.
- The system emits an ultrasonic wave and the relevant sensor detects the return of the wave reflected by an obstacle. The system measures the time taken by the ultrasonic wave to reach the obstacle and return from it, from which it determines the obstacle's position.
- The parking sensor function can be used when you turn the ignition switch to "ON" position and the gearshift lever is in the "R" position. This function is helpful in the following cases: pulling over to the curb; parallel parking the vehicle; steering the vehicle into a garage; driving along an alley; and moving slowly in a place with obstacles.

## OPERATING YOUR VEHICLE

### ⚠ WARNING

- The parking sensor warns you of obstacles with buzzers. However, you still have to drive with particular care.
- The sensors can detect obstacles only within a limited area and only when the vehicle is moving within a limited speed range. So, in tricky areas, you must move the vehicle slowly while checking around it using your direct vision or rearview mirrors. There is increased risk of an accident if you control the vehicle relying only on the parking sensor.

### NOTE:

*When the gearshift lever is shifted to the "R" position, a buzzer will sound once.*

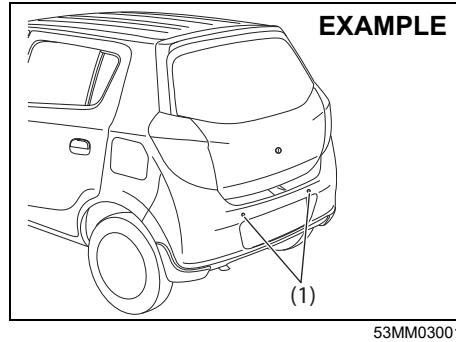
### NOTICE

**Parking sensors are only for driver's assistance.**

## OPERATING YOUR VEHICLE

### Sensor locations

#### On rear bumper



(1) Rear sensors (2 places)

### Working sensors

The sensors work depending on the gearshift lever position as follows:

Gearshift lever position	Manual transmission		Auto Gear Shift	
	R	N, 1st – 5th	R	N, D, M
Rear sensors	On	Off	On	Off

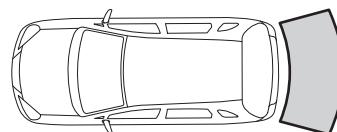
#### NOTICE

- Avoid hitting the sensor areas or directing the nozzle of a high-pressure car washer onto the sensor areas. Otherwise, the sensors may be damaged.
- If the bumper hits a hard object, the sensors on it may not work properly. If this occurs, have the sensors inspected by a Maruti Suzuki authorised workshop.

## OPERATING YOUR VEHICLE

Approximate areas where obstacles can be detected

### EXAMPLE



60MK070

- An obstacle within about 20 cm (8 in) from a sensor or just below a sensor is not detectable.
- The sensors can detect obstacles such as a wall up to about 1.5 m (5 ft) from the rear of vehicle.

### ! WARNING

Under the following conditions, the parking sensor system may not work normally because the sensors cannot detect obstacles correctly.

- Sensors are covered with mud, ice or other materials. (Such materials must be removed for normal operation.)
- Sensors are wet from water splashes or heavy rain.
- Sensors are covered by a hand, sticker, accessory, etc.
- There is an accessory or other object attached within the sensor's sensing area.
- Items such as tow hooks, commercially available corner poles, radio antenna, etc. are installed on the bumper.
- The height of the bumper is changed due to alteration to the suspension or other causes.
- The sensor areas are extremely hot from direct sunlight or cold due to freezing weather.
- The vehicle is on a rough surface, slope, gravel road or grass field.
- The vehicle is at a steep angle.

(Continued)

### ! WARNING

(Continued)

- Sensors have intercepted ultrasonic noise from another vehicle's horn, engine, air braking system (large vehicles), or parking sensor.
- Obstacles are too close to the sensors.
- Sensors are at an angle to a highly reflective object such as glass. (Ultrasonic waves are not reflected back from the obstacle.)
- Sensors may not be able to correctly detect the following types of obstacles:
  - Objects made of a thin material such as wire netting and ropes
  - Square-shaped curbstones or other objects with sharp edges
  - Tall objects with a large upper part such as a road sign
  - Low-profile objects such as curbstones
  - Sound-absorbing objects such as cotton and snow

#### NOTE:

- *Thin poles or obstacles lower than the sensors may become undetectable as the vehicle moves closer to them even if they have been detected from longer distances.*

## OPERATING YOUR VEHICLE

- The system may calculate the distance to a road sign or similar obstacle to be shorter than the actual distance.*

### Obstacle indication by parking sensor

Upon detecting an obstacle, the parking sensor causes an interior buzzer to sound.

- A buzzer located behind the rear seat sounds when a sensor at the rear detects an obstacle.
- Warnings when obstacles such as wall are detected by sensors

Distance (approx.)	Buzzer
100 – 150 cm (39 – 59 in)	Short beeps at short intervals
60 – 100 cm (24 – 39 in)	Short beeps at very short intervals
Less than 60 cm (24 in)	Continuous beep

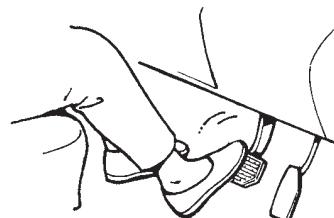
### Warning and indicator messages

If there is a problem or warning regarding the parking sensor system, a buzzer informs it. Follow its instruction.

The buzzer sounds intermittently. The indicated sensor is contaminated. Wipe it clean with a soft cloth. If the buzzer does not stop after wiping, there may be problem with the parking sensor system. Have your vehicle inspected by a Maruti Suzuki authorised workshop.

## Braking

### EXAMPLE



53M05022

The distance needed to bring any vehicle to a halt increases with the speed of the vehicle. The braking distance needed, for example, at 60 km/h (37 mph) will be approximately 4 times greater than the braking distance needed at 30 km/h (19 mph). Start to brake the vehicle when there is plenty of distance between your vehicle and the stopping point, and slow down gradually.

### WARNING

If water gets into the brake drums, brake performance may become poor and unpredictable.

After driving through water or washing the underside of the vehicle, test the brakes while driving at a slow speed to see if they have maintained their normal effectiveness. If the brakes are less effective than normal, dry them by repeatedly applying the brakes while driving slowly until the brakes have regained their normal effectiveness.

### Power-Assisted Brakes

Your vehicle has power-assisted brakes. If power assistance is lost due to a stalled engine or other failures, the system is still fully operational on reserve power and you can bring the vehicle to a complete stop by pressing the brake pedal once and holding it down. The reserve power is partly used up when you depress the brake pedal and reduces each time the pedal is pressed. Apply smooth and even pressure to the pedal. Do not pump the pedal.

## OPERATING YOUR VEHICLE

### ⚠ WARNING

Even without reserve power in the brake system, you can still stop the vehicle by pressing the brake pedal harder than normally required. However, the stopping distance may be longer.

#### Brake Assist System

When you slam the brakes on, the brake assist system judges as an emergency stop and provides more powerful braking for a driver who cannot hold down the brake pedal firmly.

#### NOTE:

If you quickly and forcefully depress the brakes, you may hear a clicking sound in the brake pedal. This is normal and indicates that the brake assist system is activated properly.

#### Anti-Lock Brake System (ABS)

ABS will help you avoid skidding by electronically controlling braking pressure. It will also help you maintain steering control when braking on slippery surfaces or when braking hard.

The ABS works automatically, so you do not need any special braking technique. Just push the brake pedal down without pumping. The ABS will operate whenever it senses that the wheels are locking up.

You may feel the brake pedal moves a little while the ABS is operating.

#### NOTE:

- The ABS will not work if vehicle speed is under about 9 km/h.
- If the ABS system is activated, you may hear a clunking noise and/or feel pulsating in the brake pedal. This is normal and indicates that the brake fluid pressure is being controlled properly.
- You may hear an operation sound when you start the engine or after the vehicle begins to move. This means that the above systems are in the self-check mode. This sound does not indicate a malfunction.

### ⚠ WARNING

(Continued)

- On regular paved roads, some drivers may be able to obtain slightly shorter stopping distances with conventional brake systems than with ABS.
- In both of the above conditions, ABS will still offer the advantage of helping you maintain directional control. However, remember that ABS will not compensate for bad road or weather conditions or poor driver judgment. Use good judgment and do not drive too fast.

### ⚠ WARNING

- On some types of loose surfaces (such as gravel, snow-covered roads, etc.) the stopping distance required for an ABS-equipped vehicle may be slightly greater than for a comparable vehicle with a conventional brake system. With a conventional brake system, skidding tires are able to "plow" the gravel or snow layer, shortening the stopping distance. ABS minimizes this resistance effect. Allow for extra stopping distance when driving on loose surfaces.

(Continued)



(1)



(2)

63J081

(1) ABS warning light  
(2) Brake system warning light

## OPERATING YOUR VEHICLE

### ⚠ WARNING

- If the ABS warning light (1) on the instrument panel comes on and stays on while driving, there may be a problem with the ABS system. Ask your Maruti Suzuki authorised workshop to inspect the ABS system immediately. If the ABS system becomes inoperative, the brake system will function as an ordinary brake system that has no ABS.
- If the ABS warning light (1) and the Brake system warning light (2) on the instrument panel simultaneously stays on or comes on when driving, both anti-lock function and rear brake force control function (proportioning valve function) of the ABS system may have failed. If so, the rear wheels may easily skid or the vehicle can even spin in the worst case when braking on a slippery road or when hard braking even on a dry paved road. Ask your Maruti Suzuki authorised workshop to inspect the ABS system immediately. Drive carefully, avoiding hard braking as much as possible.

### How the ABS Works

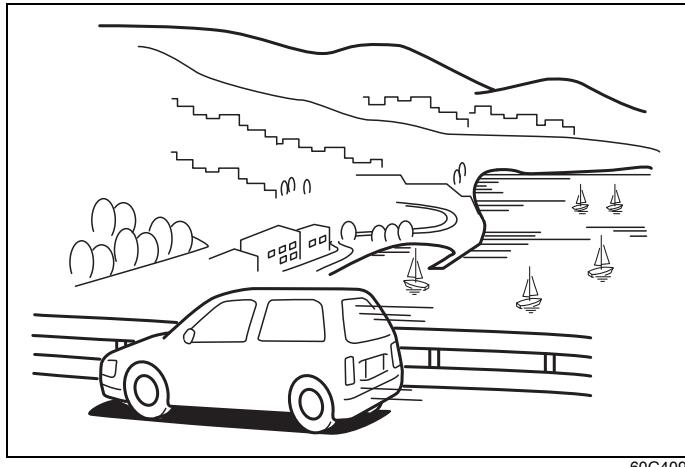
A computer continuously monitors wheel speed. The computer compares the changes in wheel speed when braking. If the wheels slow suddenly, indicating a skidding situation, the computer will change braking pressure several times each second to prevent the wheels from locking. When you start your vehicle or when you accelerate after a hard stop, you may hear a momentary motor or clicking noise as the system resets or checks itself. "This is absolutely normal and indicates that ABS is functioning properly".

### ⚠ WARNING

The ABS may not work properly if tires or wheels other than those specified in the owner's manual are used. This is because the ABS works by comparing changes in wheel speed. When replacing tires or wheels, use only the size and type specified in this owner's manual.

## DRIVING TIPS

### DRIVING TIPS

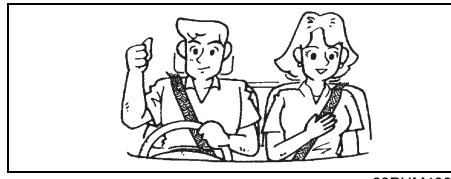


60G409

4

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## DRIVING TIPS



68PHM4001

### ⚠ WARNING

- **WEAR YOUR SEAT BELTS AT ALL TIMES.** Even though air bags may be equipped at the front seating positions, the driver and all passengers should be properly restrained at all times, using the seat belts provided. Refer to the "Seat Belts and Child Restraint Systems" section for instructions on proper use of the seat belts.
- Never drive while under the influence of alcohol or other drugs. Alcohol and drugs can seriously impair your ability to drive safely, greatly increasing the risk of injury to yourself and others. You should also avoid driving when you are tired, sick, irritated, or under stress.

## Running-in

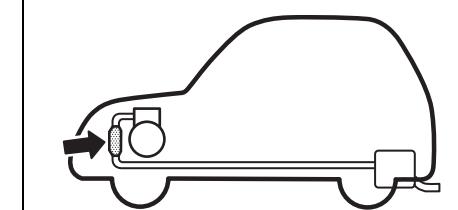
### NOTICE

The future performance and reliability of the engine depends on the care and restraint exercised during its early life. It is especially important to observe the following precautions during the initial 960 km of vehicle operation.

- After starting, do not race the engine. Warm it up gradually.
- Avoid prolonged vehicle operation at a constant speed. Moving parts will break in better if you vary your speed.
- Start off from a stop slowly. Avoid full throttle starts.
- Avoid hard braking, especially during the first 320 km of driving.
- Do not drive slowly with the transaxle in a high gear.
- Drive the vehicle at moderate engine speeds.
- Do not tow a trailer.

## Catalytic Converter

### EXAMPLE



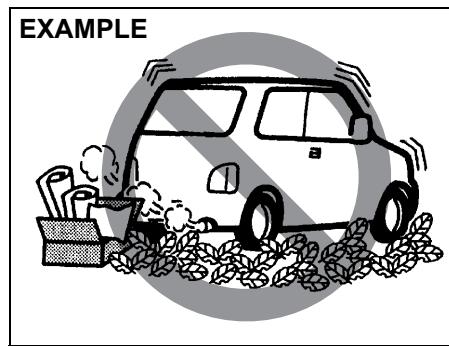
80G106

The purpose of the catalytic converter is to minimize the amount of harmful pollutants in your vehicle's exhaust. Use of leaded fuel in vehicles equipped with catalytic converters is prohibited, because lead deactivates the pollutant-reducing components of the catalyst system.

The converter is designed to last the life of the vehicle under normal usage and when unleaded fuel is used. No special maintenance is required on the converter. However, it is very important to keep the engine properly tuned. Engine misfiring, which can result from an improperly tuned engine, may cause overheating of the catalyst. This may result in permanent heat damage to the catalyst and other vehicle components.

## DRIVING TIPS

NOTICE
<p>To avoid damaging catalyst or other vehicle damage:</p> <ul style="list-style-type: none"><li>• Maintain the engine in the proper operating condition.</li><li>• In the event of an engine malfunction, particularly one involving engine misfiring or other apparent loss of performance, have the vehicle serviced promptly.</li><li>• Do not turn off the engine or interrupt the ignition when the transaxle is in gear and the vehicle is in motion.</li><li>• Do not try to start the engine by pushing or towing the vehicle, or coasting down a hill.</li><li>• Do not idle the engine with any spark plug wires disconnected or removed, such as during diagnostic testing.</li><li>• Do not idle the vehicle for prolonged periods if idling seems rough or there are other malfunctions.</li><li>• Do not allow the fuel tank to get near the empty level.</li><li>• Avoid driving your vehicle at excessively high engine speed.</li></ul>



### ⚠ WARNING

Be careful about where you park and drive; the catalytic converter and other exhaust components can get very hot. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

### Improving Fuel Economy

The following instructions will help you improve fuel economy.

#### NOTE:

*Fuel economy (mileage) of the vehicle may vary due to several factors i.e., driving habits - gear change pattern, using of A.C, Air pressure in the tyres, wind speed, traffic conditions, fuel quality - non adulterated standard fuel, maintenance of vehicle, road conditions, breaking etc.*

#### Avoid excessive idling

If you are to wait for more than a minute while you are parked, stop the engine and start it again later. When warming up a cold engine, do not allow the engine to idle or apply full throttle until the engine has reached operating temperature. Allow the engine to warm up while driving.

#### Avoid sudden acceleration

Sudden acceleration starting from rest or while driving will consume fuel unnecessarily and shorten engine life. Start off slowly.

#### Avoid unnecessary stops

Avoid unnecessary deceleration and stopping. Try to maintain a slow, steady speed whenever possible. Slowing down and then accelerating again uses more fuel.

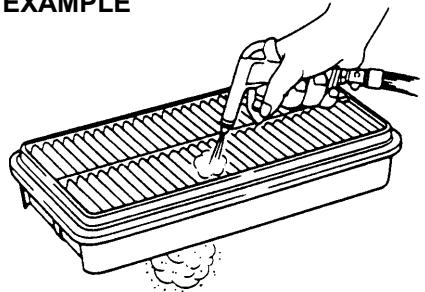
#### Keep a steady cruising speed

Keep as constant a speed as road and traffic conditions will permit.

## DRIVING TIPS

### Keep the air cleaner clean

#### EXAMPLE



60A183S

If the air cleaner is clogged with dust, there will be greater intake resistance, resulting in decreased power output and increased fuel consumption.

### Keep weight to a minimum

Heavier the load, more fuel the vehicle consumes. Take out any luggage or cargo when it is not necessary.

### Keep tire pressures correct

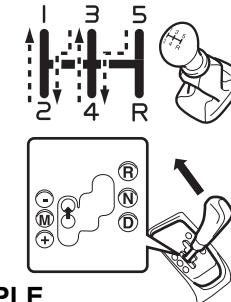
Underinflation of the tires can waste fuel due to increased running resistance of the tires. Keep your tires inflated to the correct pressure shown on the label on the driver's side door or the driver's door lock pillar.

### Highway Driving

When driving at high speeds, pay attention to the following:

- Stopping distance progressively increases with vehicle speed. Apply the brakes far enough ahead of the stopping point to allow for the extra stopping distance.
- On rainy days, hydroplaning can occur. Hydroplaning is the loss of direct contact between the road surface and the vehicle's tires due to a water film forming between them. Steering or braking the vehicle while hydroplaning can be very difficult, and loss of control can occur. Keep speed down when the road surface is wet.
- At high speeds, the vehicle may be affected by side winds. Therefore, reduce speed and be prepared for unexpected buffeting, which can occur at the exits of tunnels, when passing by a cut of a hill, or when being overtaken by large vehicles, etc.

### Driving on Hills



#### EXAMPLE

53M06005

- When climbing steep hills, the vehicle may begin to slow down and show a lack of power. If this happens, you should shift to a lower gear so that the engine will again be operating in its normal power range. Shift rapidly to prevent the vehicle from losing momentum.
- When driving down a hill, the engine should be used for braking by shifting into a lower gear.

## DRIVING TIPS

### ⚠ WARNING

Try not to hold the brake pedal down too long or too often while going down a steep or long hill. This could cause the brakes to overheat, resulting in reduced braking efficiency. Failure to take this precaution could result in loss of vehicle control.

### While moving uphill/gradient from a stand still condition

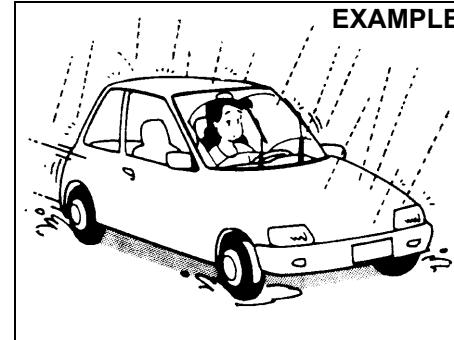
- Apply the parking brake firmly so that the vehicle does not roll backwards.
- Depress the Clutch pedal and Shift the gearshift lever to 1st Select position.
- Do not slip the clutch.
- When ready to start, press accelerator pedal and slowly release the clutch pedal simultaneously. When the vehicle starts to move, gradually release the parking brake.

### NOTICE

When descending down a hill, NEVER turn the ignition key to the "OFF" position. Emission control system damage may result.

### Driving on Slippery Roads

#### EXAMPLE



60G089S

Under wet road conditions you should drive at a lower speed than on dry roads due to possible slippage of tires during braking. When driving on icy, snow-covered, or muddy roads, reduce your speed and avoid sudden acceleration, abrupt braking, or sharp steering movements.

### Tire Chains

Tire chains should only be used if they are needed to increase traction or are required by law. Make sure that the chains you use are the correct size for your vehicle's tires. Also make sure that there is enough clearance between the fenders and the chains as installed on the tires.

Install the chains on the front tires tightly, according to the chain manufacturer's instructions. Retighten the chains after driving about 1.0 km (1/2 mile) if necessary. With the chains installed, drive slowly.

### NOTICE

- If you hear the chains hitting against the vehicle body while driving, stop and tighten them.
- If your vehicle is equipped with full wheel caps, remove the wheel caps before installing the chains or the wheel caps can be damaged by the chain bands.

## DRIVING TIPS

### If Your Vehicle Gets Stuck

If your vehicle gets stuck in snow, mud, or sand, follow the directions below:

- 1) Shift the transaxle back and forth between a forward range (or first gear for manual transaxle) and reverse. This will create a rocking motion which may give you enough momentum to free the vehicle. Press gently on the accelerator to keep wheel spinning to a minimum wheel rpm. Remove your foot from the accelerator while shifting. Do not race the engine. Excessive wheel spin will cause the tires to dig deeper, making it more difficult to free the vehicle.
- 2) If your vehicle remains stuck after a few minutes of rocking, we recommend you to consult your authorised Maruti Suzuki workshop or a roadside assistance service. If a towing service is not available in an emergency, your vehicle may be temporarily towed by a towing cable or chain secured to the towing hook either on the front of the vehicle or on the rear of the vehicle. Refer to "Frame Hooks" in the "OTHER CONTROLS AND EQUIPMENT" section.

#### ! WARNING

Do not allow anyone to stand near the vehicle when you are rocking it, and do not spin the wheels faster than an indicated 40 km/h on the speedometer. Personal injury and/or vehicle damage may result from spinning the wheels too fast.

#### NOTICE

Do not continue rocking the vehicle for more than a few minutes. Prolonged rocking can cause engine overheating or transaxle damage.

### Driving On Wet Roads

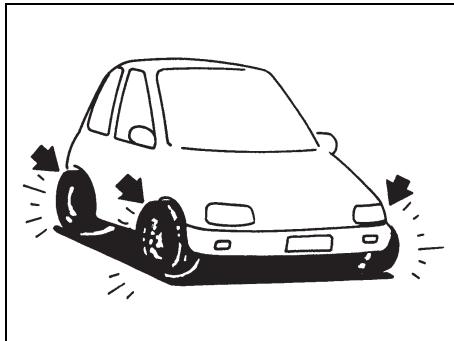
#### ! CAUTION

- When driving on wet roads, avoid driving through large amount of standing water on the road. Large amount of water entering the engine compartment may cause damage to the engine and/or electrical components.
- If stuck in deep water, do not start till water level drops.
- Water is incompressible substance, water inside engine is harmful to the engine.

#### ! WARNING

- In addition to following the driving tips in this section, it is important to observe the following precautions.
- Make sure your tires are in good condition and always maintain the specified tire pressure. Refer to "Tires" in the "INSPECTION AND MAINTENANCE"
- Do not use tires other than those specified by MARUTI SUZUKI. Never use different sizes or types of tires on the front and rear wheels. For information regarding the specified tires, refer to the Tire Information Label located on the driver's door lock pillar.
- Never use oversized tires or special shock absorbers and springs to raise (jack up) your vehicle. This will change the handling characteristics. Oversized tires may also rub against the vehicle body over bumps, causing vehicle damage or tire failure.
- After driving through water, test the brakes while driving at a slow speed to see if they have maintained their normal effectiveness. If the brakes are less effective than normal, dry them by repeatedly applying the brakes while driving slowly until the brakes have regained their normal effectiveness.

## DRIVING TIPS



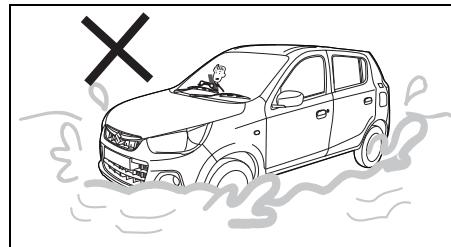
82PHM04001

### Off-road Driving

**Do not drive in the field covered with grown grass.**

If you drive in the field covered with grass, it may cause accident or fire or vehicle damage by getting caught in grown grass.

### When Encountering a Flooded Area



53M04007

Avoid driving in a flooded area or a deep puddle. If driving in a flooded area is unavoidable, go slowly in the lowest gear. In case that you have driven in a flooded area, stop the vehicle in a safe place while checking the brake effectiveness. Then, ask a Maruti Suzuki authorised workshop to check the following inspection items.

- Function of brake
- Function of electrical components
- Changes of oil level and quality for engine, transmission and differential. In case that the oil is turbid whitely, water has been mixed in the oil and an oil change is required.
- Lubricant condition of the bearings, suspension joints, etc.

#### NOTICE

- Avoid driving in a flooded area or a deep puddle. It may cause an engine stall, short in electrical components, engine and transmission damages, etc.
- If the vehicle get stuck in deep water do not start the engine.

## DRIVING TIPS

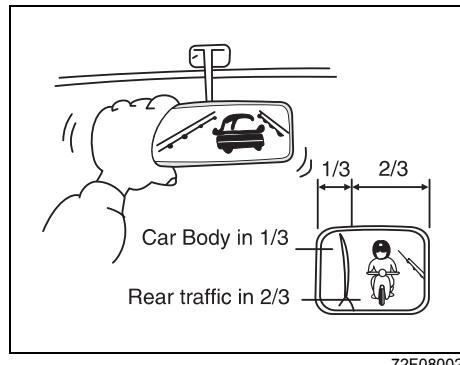
### Do's and Dont's for Safe Driving

Exercise care in handling your vehicle. Be conscious of not only your own safety but also the safety of others on the road, and thus enjoy the best and most comfortable driving experience.

Following are basic rules for safe driving. Read them carefully for good understanding of the content so that you can enjoy safe and pleasant driving in your vehicle.

#### Starting

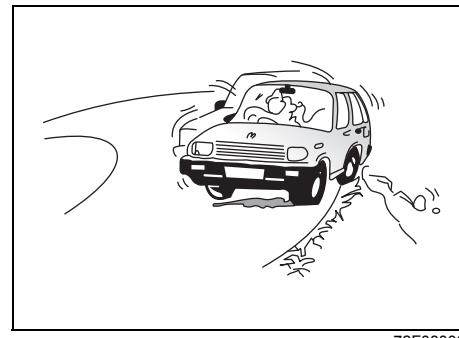
- 1) Adjust the driver's seat for the proper driving posture.
- 2) Adjust the rear view mirror so as to obtain the best possible rear view.



- 3) Before moving, look around your vehicle to confirm safety.
- 4) Don't accelerate suddenly, since it is dangerous and wastes fuel.

#### General Driving

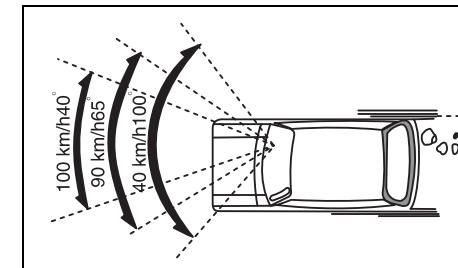
- 1) Be sure to stop before a stop light or stop sign. When moving into an intersection without any traffic lights or signs, drive slowly to confirm safety.
- 2) Always follow other vehicles at a safe distance in order to prevent a rear-end collision, in case the vehicle ahead makes a sudden stop.



72F08008

- 3) Turn ON the turn signal at least 30 meters before making a turn or changing the lane so as not to be hit.
- 4) Before entering a corner, decelerate to a safe speed. Don't apply brakes during cornering, or skidding may occur.

- 5) When overtaking other vehicles, watch out for oncoming vehicles and carefully ensure safety.
- 6) Don't attempt zigzag driving as it will hinder your control over the vehicle and may cause an accident.
- 7) Avoid reckless high speed driving and try to drive at a safe speed suitable for the road conditions while maintaining a constant speed.
- 8) The higher the speed, the narrower the driver's visual range becomes. In such a state, it is difficult to anticipate any hazard and the driver feels fatigued.

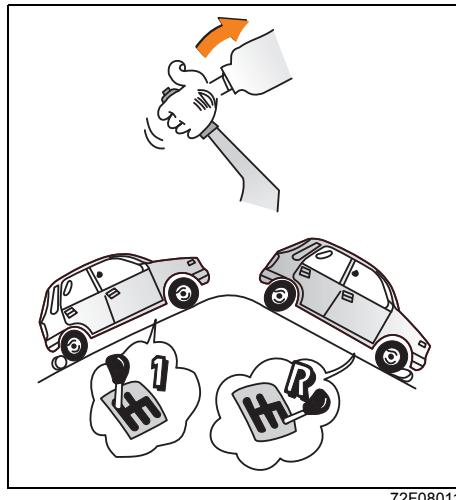


72F08015

- 9) Do not attempt sharp handling during high speed driving. You may lose your control over your vehicle.
- 10) When overtaking or changing lanes while driving at a high speed, keep ample vehicle-to-vehicle distance.

## DRIVING TIPS

### Braking



- 1) Use the parking brake when parking your vehicle and shift the gear shift lever into the first gear or reverse gear position for the sake of safety.
- 2) Don't use hand-braking unless unavoidable. It causes the vehicle to skid and a collision may occur. It is especially dangerous when the tyres are worn out as they skid more.



Use foot brake in three stages

- 1) Warn the vehicle behind you
  - 2) Gradually apply the brake.
  - 3) Bring the vehicle to a halt.
- 3) When driving downhill, try not to apply the brake but use the engine brake effectively. Overuse of the foot-brake may result in reduction of brake effectiveness.

### Long distance driving

- 1) Be sure to perform safety checks before starting a trip.
- 2) Take rest at certain intervals to prevent an accident which may occur due to feeling sleepy or tired.

### Night time driving



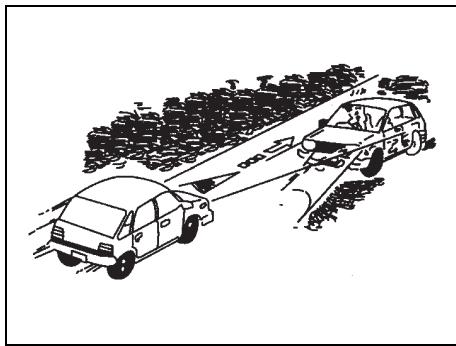
- 1) Drive at lower speeds during the night than in the daytime, as the visual range is restricted at night.
- 2) Avoid overtaking other vehicles at night. Darkness bothers your sense of speed and hinders your judgment of vehicle-to-vehicle distance.



## **DRIVING TIPS**

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- 3) Don't use headlights on high beam unless its use is inevitable. It may cause visual impairment to the driver of the oncoming vehicle or the vehicle ahead of you, which may cause an accident.



53M06015

- 4) Always keep the window glasses clean. Don't operate the windshield wiper when the windshield glass is dry else the wiper blade and glass may get damaged.

## **Margin for Safety**

It is important to allow yourself a margin for safety during driving so that you can cope with erroneous or unexpected driving of other drivers. For that, observe the following.

- Drive at a safe speed.
- Maintain a sufficient distance between your vehicle and the vehicle ahead.
- Don't force yourself to overtake other vehicles.
- Don't accelerate suddenly, steer sharply or stop suddenly.
- Keep ample gaps between driving schedules.
- Observe traffic rules and regulations.

## **Conclusion**

A perfect driver does not exist. The endeavour of every motorist should be to strive for perfection. Safety consciousness not only ensures your safety and the safety of other road users, it also helps reduce the wear and tear on your vehicle, lengthens its life, gives better fuel efficiency and ensures a comfortable driving experience.

**Follow the do's and dont's listed, and driving will never be the same again.**

## OTHER CONTROLS AND EQUIPMENT

### OTHER CONTROLS AND EQUIPMENT

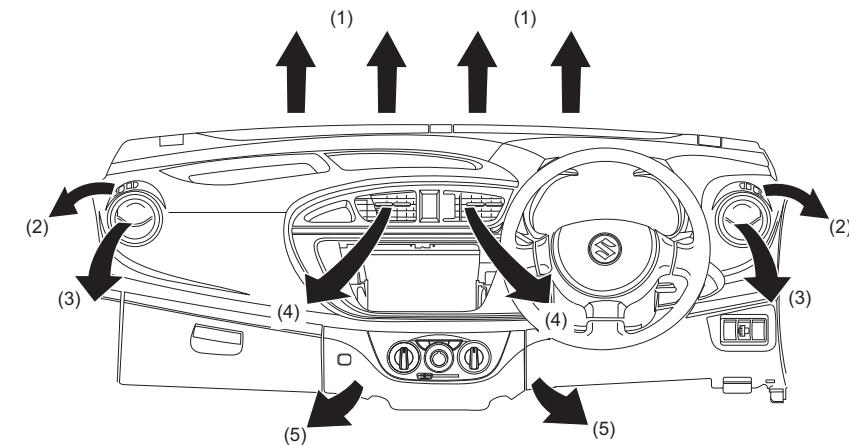
Manual Heating and Air Conditioning System (if equipped) .....	5-1
Fuel Filler Cap .....	5-5
Engine Hood .....	5-6
Sun Visor .....	5-7
Interior Light Switch .....	5-8
Accessory Socket (if equipped) .....	5-8
AUX/USB socket (if equipped) .....	5-9
Assist Grips (if equipped) .....	5-9
Glove Box .....	5-10
Cup Holder and Storage Area .....	5-10
Floor Mats .....	5-10
Shopping Hook (if equipped) .....	5-11
Luggage Compartment Cover (if equipped) .....	5-11
Frame Hooks .....	5-12
Front Speaker Provision .....	5-12
Audio System (if equipped) .....	5-13

5

## OTHER CONTROLS AND EQUIPMENT

### Manual Heating and Air Conditioning System (if equipped)

#### EXAMPLE

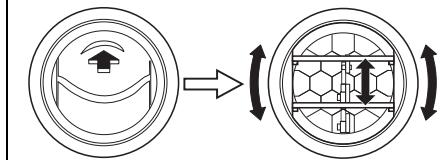


53MM05015

- (1) Windshield defroster outlet
- (2) Side defroster outlet
- (3) Side outlet
- (4) Center outlet
- (5) Front floor outlet

#### Side outlet

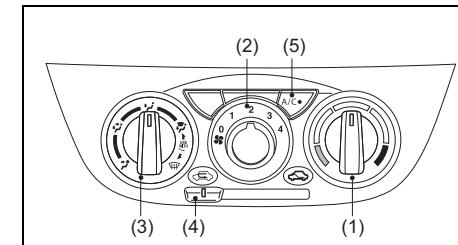
#### EXAMPLE



53M-07-003

When "Open", air comes out regardless of the air flow selector position.

#### Description of Controls



53M-07-005

#### Temperature selector (1)

This is used to select the temperature by turning the selector.

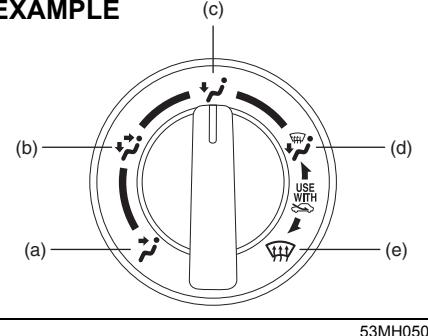
#### Blower speed selector (2)

This is used to turn on the blower and to select blower speed by turning the selector.

## OTHER CONTROLS AND EQUIPMENT

Air flow selector (3)

EXAMPLE



53MH0504

This is used to select one of the functions described below.

VENTILATION (a)



EXAMPLE

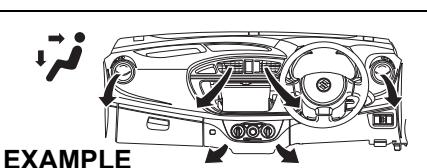


53M-07-008

Temperature-controlled air comes out of the center and side air outlets.

BI-LEVEL (b)

EXAMPLE



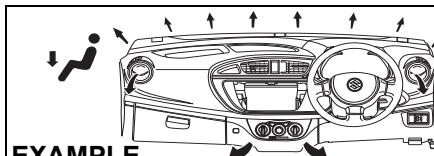
53M-07-010

Temperature-controlled air comes out of the floor outlets and cooler air comes out of the center and side outlets. However, when the temperature selector (1) is in the fully cold position or fully hot position, the air from the floor outlets and the air from the center and side outlets will be the same temperature.

HEAT (c)



EXAMPLE

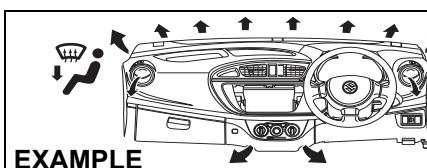


53M-07-0012

Temperature-controlled air comes out of the floor outlets and the side outlets, also comes out of the windshield defroster outlets and also comes slightly out of the side defroster outlets.

HEAT & DEFROST (d)

EXAMPLE



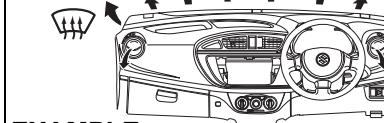
53M-07-014

Temperature-controlled air comes out of the floor outlets, the windshield defroster outlets, the side defroster outlets and the side outlets.

DEFROST (e)



EXAMPLE

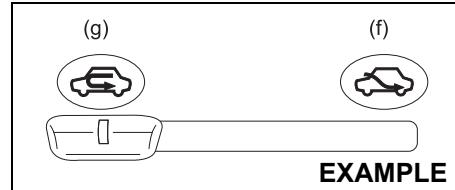


53M-07-016

Temperature-controlled air comes out of the windshield defroster outlets, the side defroster outlets and the side outlets.

## OTHER CONTROLS AND EQUIPMENT

### Air intake selector (4)



53m-07-018

This selector is used to select the following modes.

#### Fresh Air (f)

When this mode is selected by moving the lever to right, outside air is used.

#### Recirculated Air (g)

When this mode is selected by moving the lever to left, outside air is shut out and inside air is recirculated. This mode is suitable when driving through dusty or polluted air such as in a tunnel, or when attempting to quickly cool down the interior or to reduce unwanted odor from entering the vehicle.

"FRESH AIR" and "RECIRCULATED AIR" are switched alternately each time the air intake selector is pushed.

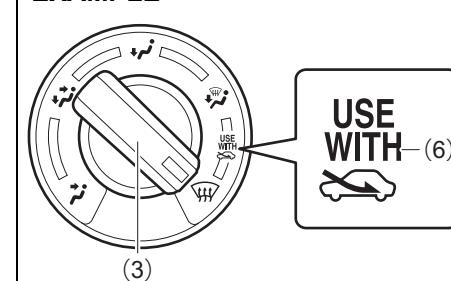
#### NOTE:

If you select RECIRCULATED AIR for an extended period of time, the air in the vehicle may become contaminated. Therefore, you should occasionally select FRESH AIR.

#### NOTE:

If you select RECIRCULATED AIR for an extended period of time, the air in the vehicle may become contaminated and the windows tend to get misted. Therefore, you should occasionally select FRESH AIR.

### EXAMPLE



53MM05013

#### NOTE:

The mark of "USE WITH" (6)  
To clear fog on the windshield and/or the side windows quickly, set the air flow selector (4) to "HEAT & DEFROST" or "DEFROST" and air intake selector (3) to "FRESH AIR". These positioning will clear the fogged windshield and/or the side windows faster than the "RECIRCULATED AIR".

### Air conditioning switch (5) (if equipped)

To turn on the air conditioning system, set the blower speed selector to a position other than "OFF" and push in the "A/C" switch. With this "A/C" switch operation, an indicator light will come on when the air conditioning system is on. To turn off the air conditioning system, push "A/C" switch again.

During operation of the air conditioner, you may notice slight changes in engine speed. These changes are normal, the system is designed so that the compressor turns on or off to maintain the desired temperature.

Less operation of the compressor results in better fuel economy.

### System Operating Instructions

#### Natural ventilation

Select VENTILATION and FRESH AIR, the temperature selector to the desired temperature position, and the blower speed selector to off. Fresh air will flow through the vehicle during driving.

#### Forced ventilation

The control settings are the same as for natural ventilation except you set the blower speed selector to a position other than off.

## OTHER CONTROLS AND EQUIPMENT

### Normal heating (using outside air)

Select HEAT and FRESH AIR, the temperature selector to the desired temperature position and the blower speed selector to the desired blower speed position. Setting the blower speed selector to a higher blower speed position increases heating efficiency.

### Quick heating (using recirculated air)

The control settings are the same as for normal heating except you select RECIRCULATED AIR. If you use this heating method for an extended period of time, the air in the vehicle may become contaminated and the windows can become misty. Therefore, use this method only for quick heating and change to the normal heating method as soon as possible.

### Head cooled/Feet warmed heating

Select BI-LEVEL and FRESH AIR, the temperature selector to the desired temperature position, and the blower speed selector to the desired blower speed position. Unless the temperature selector is in the fully cold position or fully hot position, the air that comes out of the center and side outlets will be cooler than the air that comes out of the floor outlets.

### Normal cooling

Set the air flow selector to VENTILATION, the temperature selector to the desired temperature position and the blower speed selector to the desired blower speed position, and turn on the "A/C" switch. Setting

the blower speed selector to a higher blower speed position increases cooling efficiency.

You can switch the air intake selector to either FRESH AIR or RECIRCULATED AIR as you desire. Choosing RECIRCULATED AIR increases cooling efficiency.

### Quick cooling (using recirculated air)

The control settings are the same as for normal cooling except you select RECIRCULATED AIR and the highest blower speed.

#### NOTE:

- To turn on the air conditioning system, push in the "A/C" switch and set the blower speed selector to a position other than OFF. With this "A/C" switch operation, an indicator light will come on when the air conditioning system is on. To turn off the air conditioning system, push the "A/C" switch again.
- During operation of the air conditioner, you may notice slight changes in engine speed. These changes are normal, the system is designed so that the compressor turns on or off to maintain the desired temperature. Less operation of the compressor results in better fuel economy.

#### NOTE:

- If you select RECIRCULATED AIR for an extended period of time, the air in the vehicle may become contaminated. Therefore, you should occasionally select FRESH AIR.
- If your vehicle has been left in the sun with the windows closed, it will cool faster if you open the windows briefly while you operate the air conditioner with the air intake selector at FRESH AIR and the blower at high speed.

### Dehumidifying

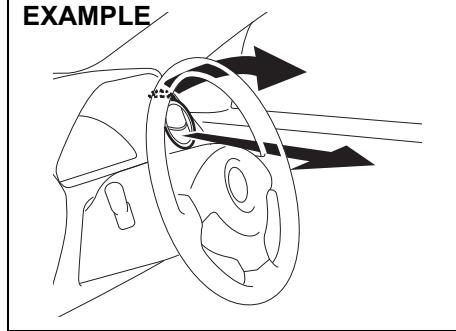
Set the air flow selector to a desired air flow selector position, the temperature selector to the desired temperature position and the blower speed selector to the desired blower speed position. Also select FRESH AIR and turn on the "A/C" switch.

#### NOTE:

Because the air conditioner dehumidifies the air, turning it on will help keep the windows clear, even when blowing heated air using the DEFROST or HEAT & DEFROST functions.

## OTHER CONTROLS AND EQUIPMENT

### EXAMPLE



53MH0511

#### NOTE:

If you need maximum defrosting:

- set the air flow selector to DEFROST,
- set the blower speed selector to high,
- adjust the temperature selector to the hot end, and
- adjust the side outlets so the air blows on the side windows.

### Maintenance

If you do not use the air conditioner for a long period, such as during winter, it may not give the best performance when you start using it again. To help maintain optimum performance and durability of your air conditioner, it needs to be run periodically. Operate the air conditioner at least once a month for one minute with the engine idling. This circulates the refrigerant and oil and helps protect the internal components.

#### NOTE:

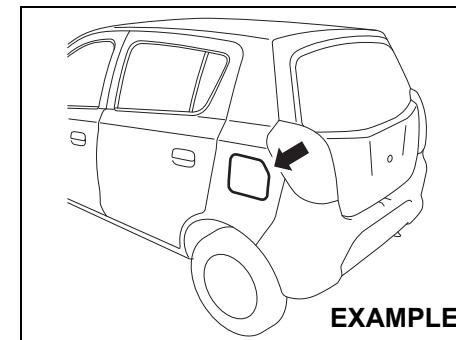
Your vehicle uses the air conditioning refrigerant HFC-134a, commonly called "R-134a". R-134a replaced R-12 around 1993 for automotive applications. Other refrigerants are available, including recycled R-12, but only R-134a should be used in your vehicle.

### NOTICE

Using the wrong refrigerant may damage your air conditioning system. Use R-134a only. Do not mix or replace the R-134a with other refrigerants.

### Fuel Filler Cap

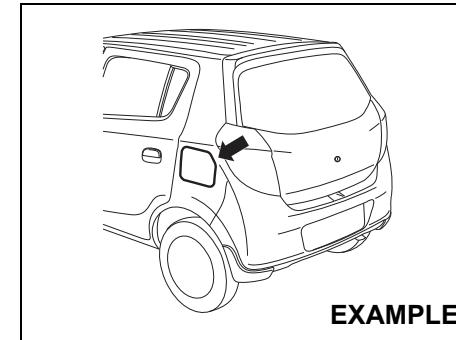
#### ALTO



EXAMPLE

53MH0512

#### ALTO K10

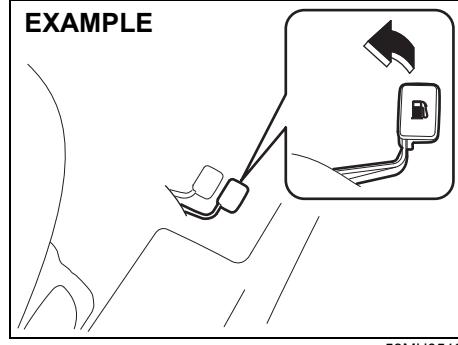


EXAMPLE

53M-07-021

## OTHER CONTROLS AND EQUIPMENT

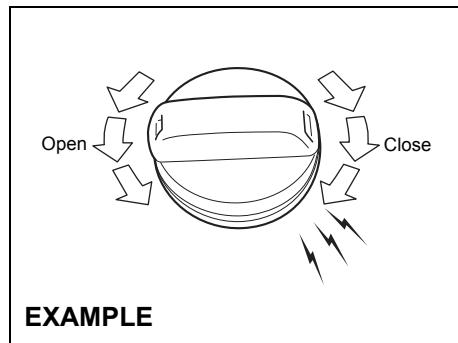
### EXAMPLE



53MH0513

The fuel filler cap is located on the left rear side of the vehicle. The fuel filler door can be unlocked by pulling up the opener lever located on the outboard side of the driver's seat and locked by simply closing the door.

### EXAMPLE



68KN048

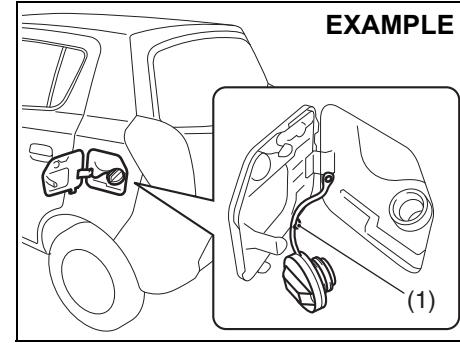
To remove the fuel filler cap:

- 1) Open the fuel filler door.
- 2) Remove the cap by turning it counter-clockwise.

### CAUTION

Remove the fuel filler cap slowly. The fuel may be under pressure and may spray out, causing injury.

### EXAMPLE



53MH0514

### NOTE:

If the fuel filler door is equipped with the cap holder (1), then use the cap holder to hold fuel filler cap while refueling.

To reinstall the fuel filler cap:

- 1) Turn the cap clockwise until you hear several clicks.
- 2) Close the fuel filler door.

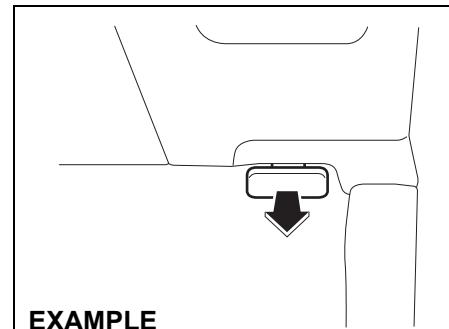
### ! WARNING

Fuel is extremely flammable. Do not smoke when refueling, and make sure there are no open flames or sparks in the area.

### ! WARNING

If you need to replace the fuel cap, use a Maruti Suzuki genuine cap. Use of an improper cap can result in a malfunction of the fuel system or emission control system. It may also result in fuel leakage in the event of an accident.

## Engine Hood

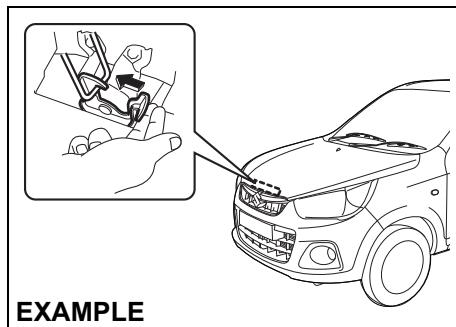


53MH0515

## OTHER CONTROLS AND EQUIPMENT

To open the engine hood:

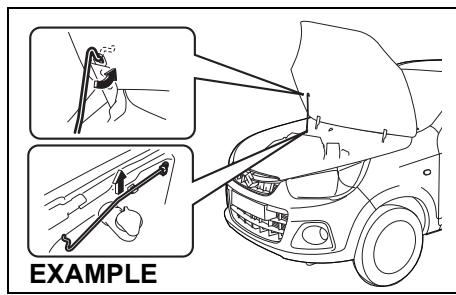
- 1) Pull the hood release handle located on the outboard side of the driver's side. This will disengage the engine hood lock halfway.



EXAMPLE

53MM05013

- 2) Push the under-hood release lever sideways with your finger, as shown in the illustration. While pushing the lever, lift up the engine hood.



EXAMPLE

53MM05014

- 3) Continue to lift up the hood until it is high enough to support with the prop rod.

To close the engine hood:

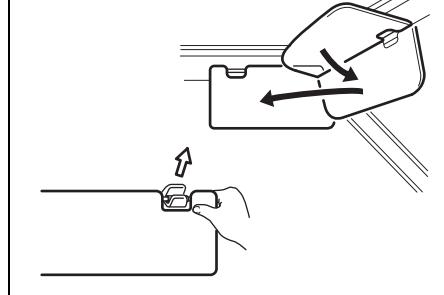
- 1) Lift the hood up slightly and remove the prop rod from the hole. Put the prop rod back to the holding clip.
- 2) Lower the hood close to the bumper, then let it drop down. Make sure the hood is securely latched after closing.

### WARNING

Make sure the hood is fully closed and latched before driving. If it is not, it can fly up unexpectedly during driving, obstructing your view and resulting in an accident.

## Sun Visor

### EXAMPLE



79J161

The sun visors can be pulled down to block glare coming through the windshield, or they can be unhooked and turned to the side to block glare coming through the side window.

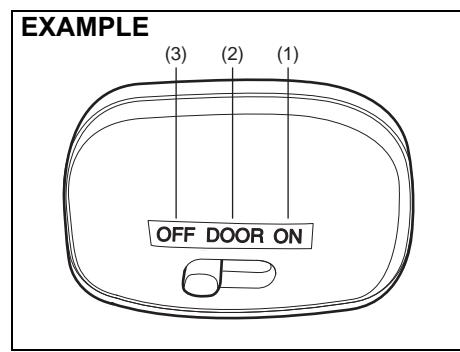
### NOTICE

When unhooking and hooking a sun visor, be sure to handle it by side of the sun visor as shown in the figure else sun visor may get damaged.

## OTHER CONTROLS AND EQUIPMENT

### Interior Light Switch

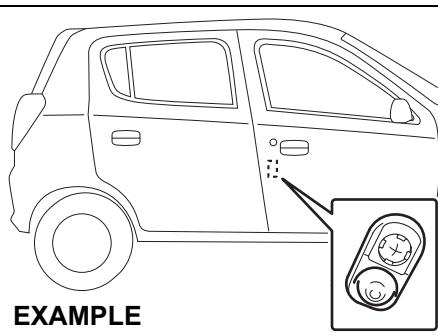
#### EXAMPLE



82JN065

This light switch has three positions which function as described below:

- (1) The light comes on and stays on regardless of whether the door is open or closed.
- (2) The light comes on when the door is opened.
- (3) The light remains off even when the door is opened.



EXAMPLE  
53MH0519

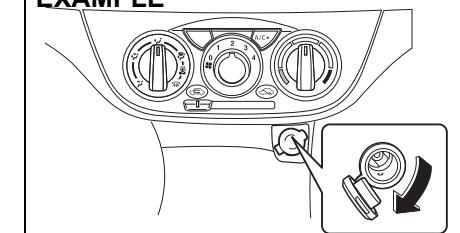
#### NOTE:

*The number of doors involved in the lighting operation of the interior light depends on the vehicle specification. If there is a switch (rubber projection) at the door opening as shown, the door is involved in the lighting operation. The tailgate is also involved in this operation even without the rubber projection.*

### Accessory Socket (if equipped)

#### Manual Transaxle

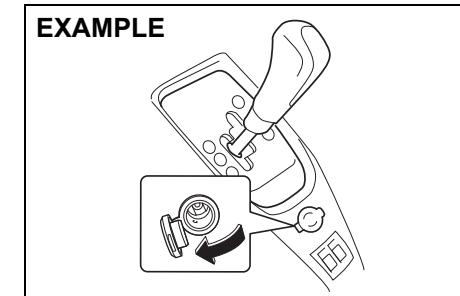
#### EXAMPLE



53M-07-033

#### Auto Gear Shift

#### EXAMPLE



53M-07-034

The accessory socket will work when the ignition switch is in the "ACC" or "ON" position. This socket can be used to provide 12volt/120 watt power for electrical acces-

## OTHER CONTROLS AND EQUIPMENT

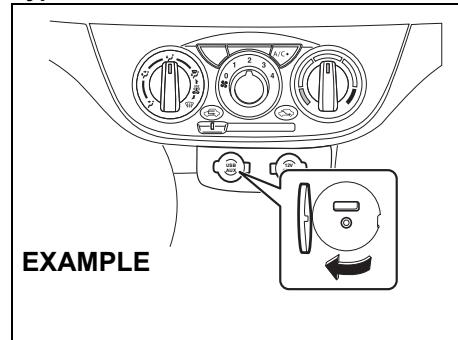
series. Check that the cap remains on the socket when socket is not in use.

### **NOTICE**

**Use of inappropriate electrical accessories can cause damage to your vehicle's electrical system. Make sure that any electrical accessories you use are designed to plug into this type of socket.**

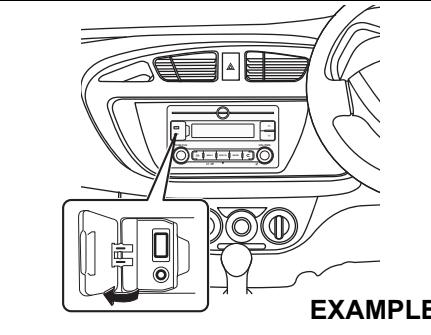
## AUX/USB socket (if equipped)

### Type A



53MH0525

### Type B



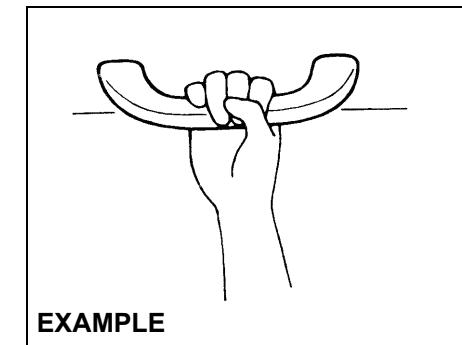
53MH0528

Connect your portable digital music player, etc. to this socket to enjoy music through the vehicle's audio system. Refer to "Audio system" in this section.

### **NOTICE**

**Always close the cap when not in use, since entry of foreign material, dust, water, conductive liquids may damage the audio system or USB device.**

## Assist Grips (if equipped)



53MH0518

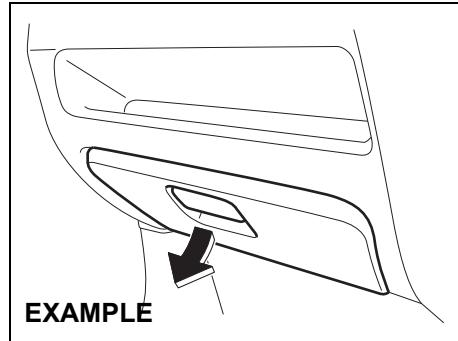
Assist grips are provided for convenience.

### **NOTICE**

**To avoid damaging the assist grip and the molded headlining, do not hang down the assist grip.**

## OTHER CONTROLS AND EQUIPMENT

### Glove Box



EXAMPLE

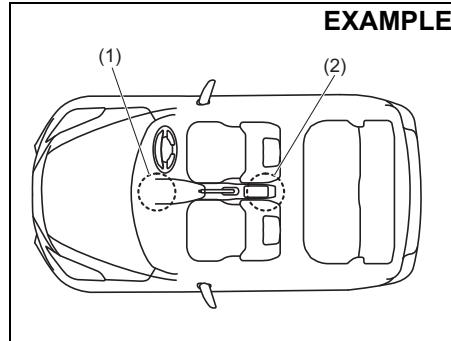
53MH0520

To open the glove box, pull the latch lever. To close it, push the lid until it latches securely.

#### ⚠ WARNING

Never drive with the glove box lid open. It could cause injury if an accident occurs.

### Cup Holder and Storage Area



EXAMPLE

53MM05008

- 1) Front cup holder and bottle holder (if equipped)
- 2) Rear bottle holder (if equipped)

**Front Cup Holder & Bottle Holder (1) (if equipped) / Rear Bottle Holder (2) (if equipped)**

#### ⚠ WARNING

Failure to take the precautions listed below could cause personal injury or vehicle damage.

- Be careful when you are using the cup holders to hold a cup containing hot liquid. Spilling out hot liquid can cause burn injury.

(Continued)

#### ⚠ WARNING

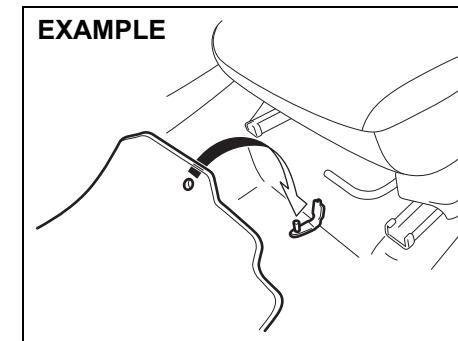
(Continued)

- Do not use the cup holders to hold sharp-edged, hard, or breakable objects. Objects in the cup holders may be thrown about during a sudden stop or impact, and could cause personal injury.
- Be careful not to spill liquid or insert any foreign materials into the moving part of the gearshift lever, or any electrical components. Liquid or foreign materials may damage these parts.

#### NOTE:

Maruti Suzuki recommends to use maximum 1 liter capacity of bottle.

### Floor Mats



53MH0522

## OTHER CONTROLS AND EQUIPMENT

To prevent the driver's side floor mat from sliding forward and possibly interfering with the operation of the pedals, MARUTI SUZUKI GENUINE floor mats are recommended.

Whenever you put the driver's side floor mat back in the vehicle after it has been removed, be sure to hook (if equipped) the floor mat grommet(s) to the fastener(s) and position the floor mat properly in the footwell.

When you replace the floor mats in your vehicle with a different type such as all-weather floor mats, we highly recommend using MARUTI SUZUKI GENUINE floor mats for proper fitting.

### ⚠ WARNING

Failure to take the following precautions may result in the driver's side floor mat interfering with the pedals and causing a loss of vehicle control or an accident.

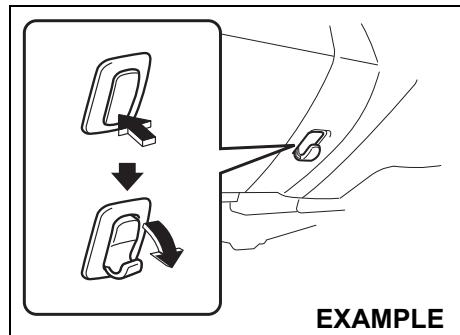
- Make sure that the floor mat grommet(s) is (are) hooked to the fastener(s).
- Never place additional floor mats on top of the existing floor mats.
- Never use a floor mat which does not fit the floor as the same may cause hindrance/damage in vehicle and its functioning
- Never use damage floor mats.

### Shopping hook (if equipped)

You can hang the shopping bag or other suitable objects on the hook located on the dashboard. This hook is not designed for large or heavy items.

#### ⚠ CAUTION

To avoid breaking the hook, do not hang items heavier than 2 kg (4.4 lbs).

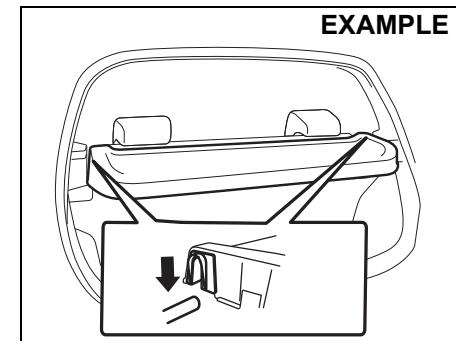


EXAMPLE

53M-07-039

### Luggage Compartment Cover (if equipped)

#### EXAMPLE



53M-07-040

Luggage or other cargo placed in the luggage compartment is hidden from view by a luggage compartment cover.

### ⚠ WARNING

Do not carry items on top of the luggage compartment cover, even if they are small and light. Objects on top of the cover could be thrown about in an accident, causing injury, or could obstruct the driver's rear view.

## OTHER CONTROLS AND EQUIPMENT

### Frame Hooks

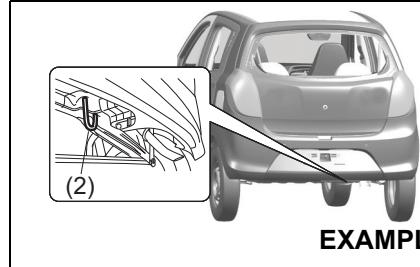
#### Front

##### EXAMPLE



53MM05003

#### Rear



EXAMPLE

53MM05004

The frame hooks are provided on the front (1), rear (2) of the vehicle. The hooks (1) is used for emergency situations. The hooks (1) and (2) are used for trailer/train shipping purpose.

To tow your vehicle on the road or highway, follow the instruction of "Towing" in "EMERGENCY SERVICE" or "VEHICLE LOADING AND TOWING" section.

#### WARNING

Do not use the frame hooks to tow another vehicle or to have your vehicle towed on the road or highway. The hooks (1) is designed for use in emergency situations only, such as if your vehicle or another vehicle gets stuck in deep mud or snow. The hook (2) is provided for trailer/train shipping purposes.

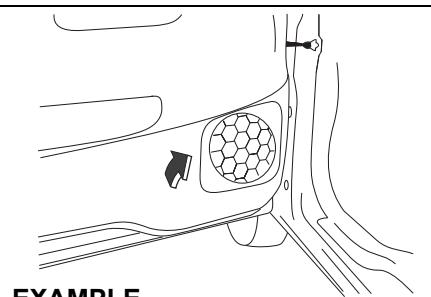
#### NOTICE

When you use the towing hook (1), avoid the driving that gives significant physical shock on hook. Such operation can damage the hook, or the vehicle body.

Do not sudden accelerate.

### Front Speakers Provision (if equipped)

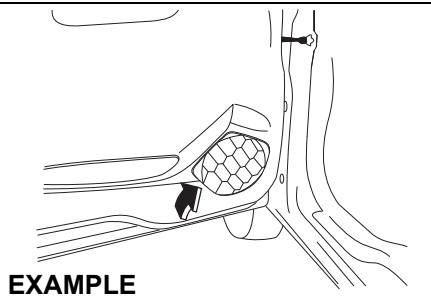
#### ALTO



EXAMPLE

53M-07-045

#### ALTO K10



EXAMPLE

53M-07-046

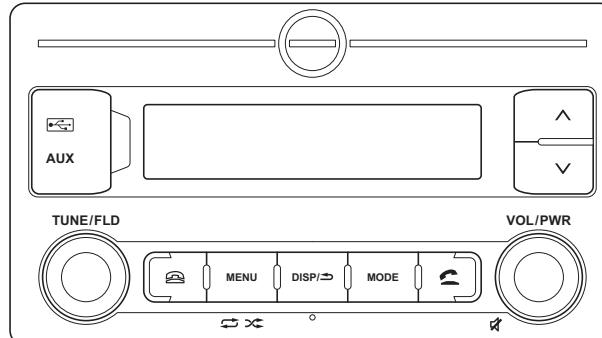
Space for fitment of front speaker is provided on the front doors.

## **OTHER CONTROLS AND EQUIPMENT**

### **Audio system (if equipped)**

**ALTO**

#### **EXAMPLE**



69RM05009

**NOTE:**

*For vehicle equipped with SMARTPLAY STUDIO INFOTAINMENT SYSTEM, refer to audio manual available with the vehicle.*

## OTHER CONTROLS AND EQUIPMENT

### Safety information

#### ⚠ WARNING

If you pay too much attention to operating the audio system or viewing the audio system display while driving, an accident can occur. If you set the sound volume too loud, it could prevent you from being aware of road and traffic conditions.

- Keep your eyes on the road and your mind on the drive. Avoid paying too much attention to operating the audio system or viewing the audio system display.
- Familiarize yourself with the audio system controls and operation of the audio system before driving.
- Preset your favorite radio stations before driving so that you can quickly tune to them using the presets.
- Set the sound volume to a level that will allow you to continue to be aware of road and traffic conditions while driving.

#### NOTICE

- Avoid spraying or spilling of clearing solutions, perfumes, car fresheners, beverages, chemicals or any liquids on the audio system surface. Also ensure that any liquid does not enter the system, it can damage the screen and the system. The warranty of the system will be void, if liquid ingress marks are observed inside the system.
- Avoid exposure of the audio system to water or excessive moisture as it can cause electric shocks, fire or other damages.

#### Open source definition

This Product includes following open source software.  
mbedtls version 2.5.1

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SPDX-License-Identifier: Apache-2.0

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This file is part of mbed TLS (<https://tls.mbed.org>)

Please be noted that a portion of this software is made by changing or modifying original source files.

#### Bluetooth®

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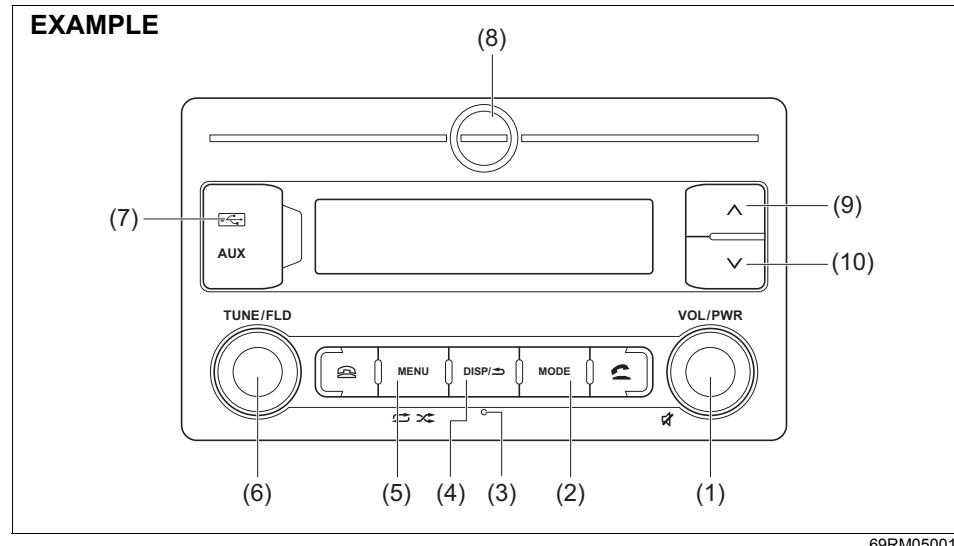
#### Stop using this unit and a Bluetooth® ready device whenever requested.

This unit shares the communication frequency with other private or public wireless communication equipment such as a wireless LAN and other wireless communication radios.

You should stop using this unit whenever you are notified that your unit disturbs other wireless communication immediately.

## OTHER CONTROLS AND EQUIPMENT

### Basic operations



- (1) "VOL/PWR" knob
- (2) "MODE" button
- (3) MICROPHONE (for handsfree)
- (4) "DISP/BACK" button
- (5) "MENU" button
- (6) "TUNE/FLD" knob
- (7) USB/AUX
- (8) SMARTPHONE DOCK CAP\*
- (9) UP button
- (10) DOWN button

\* To open SMARTPHONE DOCK CAP, use the cap opener provided in MGA cradle.

#### Turning on/off power

Press "VOL/PWR" knob (1) to turn on the power. The unit starts to operate in the previous mode that the power was turned off.  
• To turn off the power, press and hold "VOL/PWR" knob (1) for about 2 seconds.

#### Adjusting the volume

Turn "VOL/PWR" knob (1).  
• Turning it clockwise increases the volume.  
• Turning it counterclockwise decreases the volume.

#### Mute

- Press "VOL/PWR" knob (1) to mute the sound.
- To cancel mute, press any button.

#### NOTE:

*For the purpose of safe driving, adjust the audio volume to a level that allows you to hear sounds outside of the vehicle including car horns and particularly emergency vehicle sirens.*

#### Display & Back setting

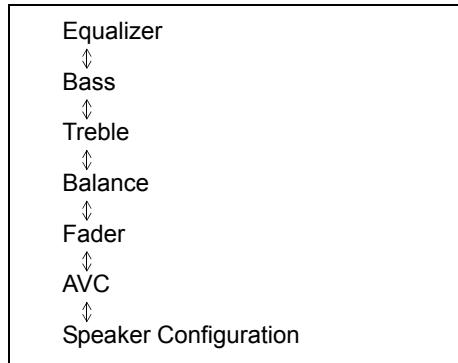
Press "DISP/BACK" button (4) to go back to the previous display when a list or menu screen is displayed.  
On long pressing "DISP/BACK" button (4), tuner display will be turned OFF. However all operations such as media playing etc will be active. Display will be turned ON by pressing any button on audio unit, steering

## OTHER CONTROLS AND EQUIPMENT

switches or any other interrupt such as handsfree calling etc.

### Sound settings

- 1) Press "MENU" button (5). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (6) to select "Sound Settings", and press the knob (6) to determine the selection.
- 3) Turn "TUNE/FLD" knob (6) to select one of the settings as follows, and press the knob (6) to determine the selection.



### Equalizer

The equalizer can set various types of sounds depending on the type of music.

- 1) Turn "TUNE/FLD" knob (6) to select "Equalizer", and press the knob (6) to determine the selection.
- 2) Turn "TUNE/FLD" knob (6) to select one of the settings as follows, and press the knob (6) to determine the selection.



#### NOTE:

- When you select "Custom", the sound curve can be adjusted as your preference. Turn "TUNE/FLD" knob (6) to adjust values of sound, and press the knob (6) to determine the selection.
- ">> <<" mark appears at both left and right ends of the currently selected equalizer.

### Adjusting bass/treble/balance/fader

- 1) Turn "TUNE/FLD" knob (6) to select "Bass", "Treble", "Balance" or "Fader", and press the knob (6) to determine the selection.
- 2) Turn "TUNE/FLD" knob (6) to adjust the sound, and press the knob (6) to determine the selection.

#### • "Bass" / "Treble":

- Can be adjusted in levels -6 to 0 to +6.
- Turn "TUNE/FLD" knob (6) clockwise to increase the frequency & counter clockwise to decrease the frequency.

#### • "Balance":

- Can be adjusted in 9 level left to right.
- Turn "TUNE/FLD" knob (6) clockwise to emphasize the right speaker, and turn the knob (6) counterclockwise to emphasize the left speaker.

#### • "Fader":

- Can be adjusted in 9 level back to front.
- Turn "TUNE/FLD" knob (6) clockwise to emphasize the front speaker.

#### NOTE:

When you adjust to emphasize the rear speakers, sound output may fade out completely in case vehicle is not equipped with rear speakers.

## OTHER CONTROLS AND EQUIPMENT

### Adjusting the AVC (Auto volume control)

The Auto Volume Control (AVC) function automatically adjusts (increases/decreases) the sound volume in accordance with vehicle speed. The AVC control is provided with four selectable levels (LEVEL OFF, 1, 2, 3). The level of volume adjustment increases together with the LEVEL number.

- 1) Turn "TUNE/FLD" knob (6) to select "AVC", and press the knob (6) to determine the selection.
- 2) Turn "TUNE/FLD" knob (6) to adjust the level, and press the knob (6) to determine the selection.

### Adjusting the sound parameters as per speaker configuration

- 1) Turn "TUNE/FLD" knob (6) to select "Speaker Configuration", and press the knob (6) to determine the selection.
- 2) Turn "TUNE/FLD" knob (6) to select "2SPK" or "4SPK", and press the knob (6) to determine the selection.

- "2SPK":  
Sound is generated from the front speakers.
- "4SPK" (if equipped):  
Sound is generated from the all speakers.

#### NOTE:

*For optimal sound experience, ensure that speaker configuration is selected as per the actual speakers present in the vehicle.*

### System settings

- 1) Press "MENU" button (5). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (6) to select "System Settings", and press the knob (6) to determine the selection.
- 3) Turn "TUNE/FLD" knob (6) to select one of the settings as follows, and press the knob (6) to determine the selection.

Beep  
↓  
Security  
↓  
Initialize  
↓  
Reverse Warning Priority  
↓  
Auto Scroll  
↓  
RDS  
↓  
SmartPhone APP

### Beep on/off

Beep sound is activated when error message is displayed or during operations of few button.

Beep setting can be turned on or off through the following steps:

- 1) Turn "TUNE/FLD" knob (6) to select "Beep".
- 2) Press "TUNE/FLD" knob (6) to select "ON" or "OFF".

### Security setting

Refer to "Anti-theft feature" later in this section.

### Initialize setting

You can delete the registered Bluetooth® device information.

- 1) Turn "TUNE/FLD" knob (6) to select "Initialize", and press the knob (6) to determine the selection.
- 2) Turn "TUNE/FLD" knob (6) to select "Reset BT", and press the knob (6) to determine the selection.
- 3) Turn "TUNE/FLD" knob (6) to select "YES", and press the knob (6) to determine the selection for resetting.

### Reverse warning priority setting

On applying reverse, volume of audio system gets lowered. By default, this setting is ON. This setting can be turned on or off through the following steps:

- 1) Turn "TUNE/FLD" knob (6) to select "Reverse Warning Priority", and press the knob (6) to determine the selection.
- 2) Turn "TUNE/FLD" knob (6) to select "No" or "Yes", and press the knob (6) to determine the selection.

### Auto scroll setting

Auto scroll setting is ON by default.

When playing the media files, if the files text contains more characters, ">" mark will appear at the right end up the display screen and the display changes to the next set of characters automatically.

## OTHER CONTROLS AND EQUIPMENT

- 1) Turn “TUNE/FLD” knob (6) to select “Auto Scroll”.
- 2) Press “TUNE/FLD” knob (6) to select “ON” or “OFF”.

### RDS (Radio Data System) setting

Enabling this setting displays the messages transmitted by FM station. This setting is ON by default. You can choose to turn ON/OFF this setting through the following steps:

- 1) Turn “TUNE/FLD” knob (6) to select “RDS”.
- 2) Press “TUNE/FLD” knob (6) to select “ON” or “OFF”.

#### NOTE:

- *Messages are displayed only when RDS signal is included in FM radio waves.*
- *The messages are displayed program service name only.*

### Smartphone app setting

Refer to section 5-49 for details about smartphone application.

Smartphone app can be used only when app setting is enable as ON.

Refer to “Suzuki Smartplay Dock application” later in this section for details.

- 1) Turn “TUNE/FLD” knob (6) to select “SmartPhone APP”.
- 2) Press “TUNE/FLD” knob (6) to select “ON” or “OFF”.

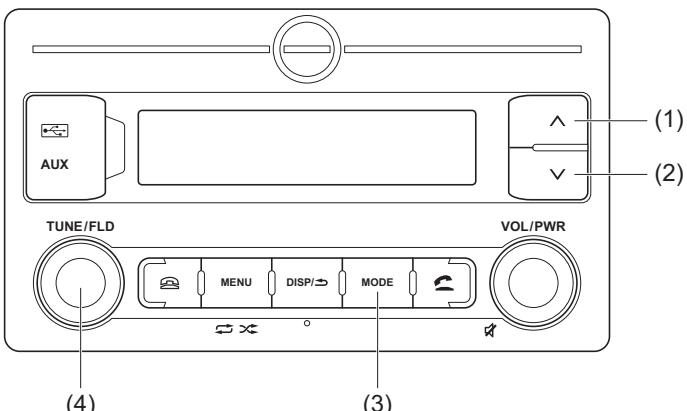
#### NOTE:

*An Apple device can be connected in either Bluetooth® or iPod mode. Bluetooth® mode has higher priority over iPod Mode. In case, you want to connect the Apple device on iPod mode instead and change Smartphone app setting to “OFF”.*

## OTHER CONTROLS AND EQUIPMENT

### Listening to the radio

#### EXAMPLE



69RH145

- (1) UP button
- (2) DOWN button
- (3) "MODE" button
- (4) "TUNE/FLD" knob

- (A) Frequency
- (B) Band
- (C) Auto store mode indication
- (D) RDS data

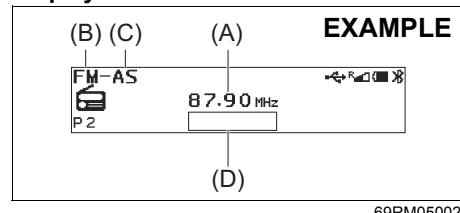
#### NOTE:

##### Radio Reception

Radio reception can be affected by environment, atmospheric conditions, or radio signal's power and distance from the station.

Nearby mountains and buildings may interfere or deflect radio reception, causing poor reception. Poor reception or radio static can also be caused by electric current from overhead wires or high voltage power lines.

#### Display



69RM05002

## OTHER CONTROLS AND EQUIPMENT

### Selecting the band

- 1) Press and hold "MODE" button (3) to change to the list of available modes.
- 2) Turn "TUNE/FLD" knob (4) to select "FM" or "AM", and press the knob (4) to determine the selection.

#### NOTE:

You can also switch the display in sequence by short pressing the "MODE" button (3).

### Seek tuning

Press and hold UP button (1) or DOWN button (2) to start searching.

The unit stops searching for a station at a frequency where a broadcast station is available.

### Manual tuning

Turn "TUNE/FLD" knob (4).  
The frequency being received is displayed.

### Preset memory

- 1) Tune to the desired station.
- 2) Press "TUNE/FLD" knob (4) to change the display to the preset channel list.
- 3) To store the station, turn "TUNE/FLD" knob (4) to select one of the channels, and press and hold the knob (4) to determine the selection.
- 4) To select station from the preset channel list, press "TUNE/FLD" knob (4) to change the display to the preset channel list.  
Turn "TUNE/FLD" knob (4) to select one of the channels, and press the knob (4) to determine the selection.

#### NOTE:

12 stations can be stored for FM, and 6 stations can be stored for AM.

In case a station is stored over an existing preset station, previous data will be overwritten.

### Auto store

- 1) Press and hold "TUNE/FLD" knob (4) to start searching when in FM/AM mode. Some stations in good reception will automatically be stored to preset channel list in order, starting from a station whose frequency is the lowest.
- 2) To select station from the preset channel list, press "TUNE/FLD" knob (4) to change the display to the preset channel list while auto store mode indication (C) is displayed.

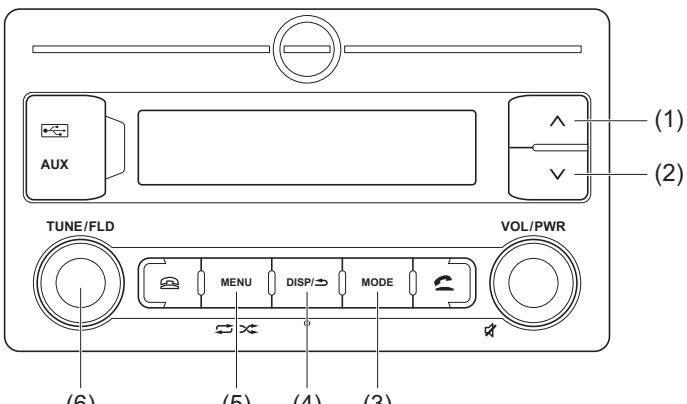
#### NOTE:

- Auto Store can be cancelled by pressing the "DISP/BACK" button.
- When the auto store is performed, the station previously stored in the memory at the position is overwritten.
- 6 stations can be preset for FM-AS, and 6 stations can be preset for AM-AS in auto store mode.

## OTHER CONTROLS AND EQUIPMENT

### Listening to files stored in a USB device

#### EXAMPLE



69RH146

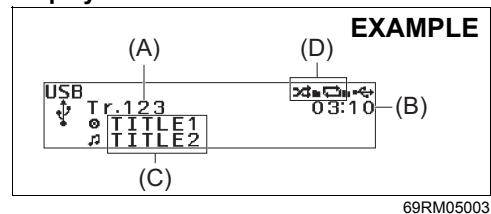
- (1) UP button
- (2) DOWN button
- (3) "MODE" button
- (4) "DISP/BACK" button
- (5) "MENU" button
- (6) "TUNE/FLD" knob

- (A) Track number
- (B) Play time
- (C) Current Active track information  
(if supported by audio device)
- (D) Repeat/Random status Indication

#### NOTICE

**Do not connect any USB device other than a USB memory or a USB audio player. Do not connect multiple USB devices to the USB connector using a USB hub, etc. Supplying power to multiple USB devices from the connector could cause overheating, smoke and permanent damage to audio system.**

#### Display



69RM05003

## OTHER CONTROLS AND EQUIPMENT

### Selecting a USB device mode

- 1) Press and hold "MODE" button (3) to change the display.
- 2) Turn "TUNE/FLD" knob (6) to select "USB", and press the knob (6) to determine the selection.

#### NOTE:

You can also switch the display in sequence by short pressing the "MODE" button (3).

### Selecting a folder

Press twice "TUNE/FLD" (6) knob and then turn "TUNE/FLD" (6) to select the desired folder.

### Selecting a track

- Press UP button (1) to listen to the next track.
- Press DOWN button (2) twice to listen to the previous track.  
When DOWN button (2) is pressed once, the track currently being played will start from the beginning again.

### Fast forwarding/rewinding a track

- Press and hold UP button (1) to fast forward the track.
- Press and hold DOWN button (2) to fast rewind the track.
- Releasing the button can stop the fast forwarding/rewinding.

### Repeat playback

- 1) Press and hold "MENU" button (5) to change the display.
- 2) Turn "TUNE/FLD" knob (6) to select "Repeat".
- 3) Press and rotate "TUNE/FLD" knob (6) to select one of the settings as below and then press "TUNE/FLD" knob (6) to determine selection.



- FILE  
The track currently being played will be played repeatedly.
- FOLDER  
All the tracks in the folder currently selected will be played repeatedly.

### Random playback

- 1) Press and hold "MENU" button (5) to change the display.
- 2) Turn "TUNE/FLD" knob (6) to select "Random".
- 3) Press and rotate "TUNE/FLD" knob (6) to select one of the settings as below and then press "TUNE/FLD" knob (6) to determine selection.

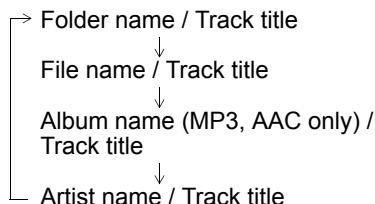


- FOLDER  
The tracks in the currently selected folder will be played in random order.
- ALL  
The tracks in the connected USB device will be played in random order.

## OTHER CONTROLS AND EQUIPMENT

### Display change

Press "DISP/BACK" button (4).  
Each time the button is pressed, display will change as follows:



#### NOTE:

- "NO TITLE" will be displayed when there is no text information in the file currently being played.
- If text data contains more characters than the display area, ">" mark will appear at the right end.

### Notes on USB device

#### Compatible USB devices

- USB mass storage class  
For details as to whether your USB memory/USB audio is compatible with USB mass storage class, please contact the USB memory/USB audio manufacturer.
- Audio file  
MP3 (.mp3) / WMA (.wma) / AAC (.m4a) / AAC (.aac)
- File system  
FAT 16/32, VFAT (supporting long file name)
- USB standard compatibility  
1.1/2.0 full speed
- Maximum current less than 2.1 A
- If a USB hub or extension cable is connected to the audio system, it may not be recognized. In this case, directly connect the USB device to the audio system.
- Devices such as MP3 players/mobile phones/digital cameras may not be recognized as audio systems for playing music and 'USB READ ERROR' message may be displayed.

### USB device connection

- When connecting a USB device, make sure that the connector is pushed all the way into the port present on audio system.
- Depending on the USB flash drive that you are using, (non-brand product, USB flash drive that has been externally damaged) it may disable connection or cause unstable operation.
- Do not leave the USB device for long periods of time in places inside the vehicle where the temperature can rise too high.
- Back up any important data beforehand. We cannot accept responsibility for any lost data.
- It is recommended not to connect a USB device that contains data files other than MP3/WMA format.

### Playing MP3/WMA/AAC files on a USB device

- Playback or display may not be possible depending on the type of USB device in use or the condition of the recording.
- Depending on the connected USB memory, the files may be played in different order from the order that the files were stored.
- The DRM (Digital Rights Management) file cannot be played.

## OTHER CONTROLS AND EQUIPMENT

### Compatible compression formats

- MP3
- Bit rate
    - MPEG1 Audio Layer III: 32 up to 320 kbps
    - MPEG2 Audio Layer III: 8 up to 160 kbps
    - MPEG2.5 Audio Layer III: 8 up to 160 kbps
    - VBR: up to 384 kbps (MAX.)
  - Sampling frequency
    - MPEG1 Audio Layer III: 32/44.1/48 kHz
    - MPEG2 Audio Layer III: 16/22.05/24 kHz
    - MPEG2.5 Audio Layer III: 8/11.025/12 kHz
  - Channel
    - Stereo/Joint stereo/Dual channel/
    - Monaural
  - ID3 tag
    - ID3v1.x/ID3v2.x

### WMA

- Windows Media Audio Ver.7/Ver.8/Ver.9
- Standard compliant
- Bit rate: 32 up to 320 kbps
- VBR: up to 384 kbps (MAX.)
- Sampling frequency: 32/44.1/48 kHz
- WMA tag: Ver.8.0
- Channel: 2 Channels

### AAC

- Bit rate: 16 up to 320 kbps
- VBR: up to 320 kbps (MAX.)
- Sampling frequency: 32/44.1/48 kHz
- AAC tag: iTunes m4a metadata

### Maximum number of files/folders

- Maximum number of files: 2500
- Maximum number of files in a folder: 255
- Maximum number of folders: 255
  - Root folder and empty folder are included.
- Maximum depth of tree structure: 8

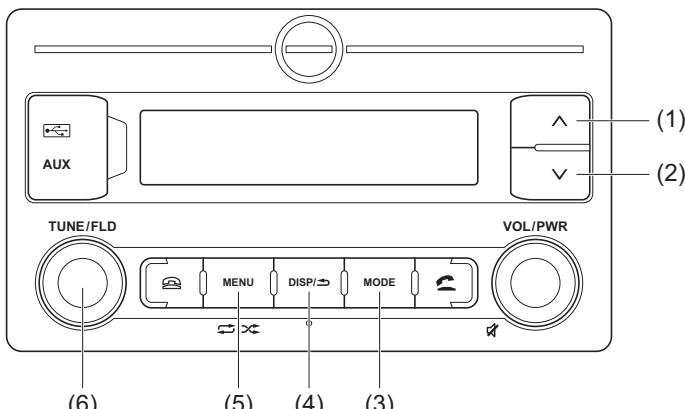
#### NOTICE

Never use “.mp3”, “.wma” or “.m4a” as a file name extension if it is not in the MP3/WMA/AAC format file. Failure to observe this may result in damage to the speaker due to noise production.

## OTHER CONTROLS AND EQUIPMENT

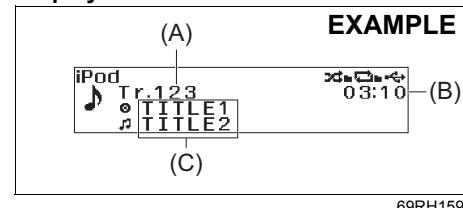
### Listening to an iPod

#### EXAMPLE



69RH146

#### Display



69RH159

- (1) UP button
- (2) DOWN button
- (3) "MODE" button
- (4) "DISP/BACK" button
- (5) "MENU" button
- (6) "TUNE/FLD" knob

- (A) Track number
- (B) Play time
- (C) Current Active track information  
(if supported by audio device)

#### Selecting an iPod mode

- 1) Press and hold "MODE" button (3) to change the display.
- 2) Turn "TUNE/FLD" knob (6) to select "iPod", and press the knob (6) to determine the selection.

#### NOTE:

You can also switch the display in sequence by short pressing the "MODE" button (3).

#### Selecting a track

- Press UP button (1) to listen to the next track.
- Press DOWN button (2) twice to listen to the previous track.  
When DOWN button (2) is pressed once, the track currently being played will start from the beginning again.

## OTHER CONTROLS AND EQUIPMENT

### Fast forwarding/rewinding a track

- Press and hold UP button (1) to fast forward the track.
- Press and hold DOWN button (2) to fast rewind the track.
- Releasing the button can stop the fast forwarding/rewinding.

### Repeat playback

- 1) Press and hold "MENU" button (5) to change the display.
- 2) Turn "TUNE/FLD" knob (6) to select "Repeat".
- 3) Press "TUNE/FLD" knob (6) to select one of the settings as follows.



- FOLDER  
All the tracks in the folder currently selected will be played repeatedly.
- SONG  
The track currently being played will be played repeatedly.

#### NOTE:

*Settings may be displayed depending on the model of iPod.*

### Random playback

- 1) Press and hold "MENU" button (5) to change the display.
- 2) Turn "TUNE/FLD" knob (6) to select "Random".
- 3) Press "TUNE/FLD" knob (6) to select one of the settings as follows.



- SONG  
The tracks in the iPod will be played in random order.

#### NOTE:

*Settings may be displayed depending on the model of iPod.*

### Display change

Press "DISP/BACK" button (4). Each time the button is pressed, display will change as follows:



#### NOTE:

- "NO TITLE" will be displayed when there is no text information in the file currently being played.
- If text data contains more characters than the display area, ">" mark will appear at the right end.

### Selecting a category

Categories such as Artist, Album, Podcast, Genre, Audiobook, Playlist, Song may be displayed depending on the model of iPod.

- 1) Press and hold "TUNE/FLD" knob (6) to change the display.
- 2) Turn "TUNE/FLD" knob (6) to select one of the categories, and press the knob (6) to determine the selection.

## OTHER CONTROLS AND EQUIPMENT

### Notes on iPod/iPhone

#### Made for iPod/iPhone

- iPod touch (6th generation)\*
- iPod touch (5th generation)\*
- iPod nano (7th generation)\*
- iPhone 8 Plus
- iPhone 8
- iPhone 7 Plus
- iPhone 7
- iPhone SE
- iPhone 6s Plus
- iPhone 6s
- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5

\* Some functions may not be available depending on the model of iPod.

### iPod



69RH201

- Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
- Please note that the use of this accessory with an Apple product may affect wireless performance.
- Apple, iPod touch, iPod nano, iPhone, and Lightning are trademarks of Apple Inc., registered in the U.S. and other countries.

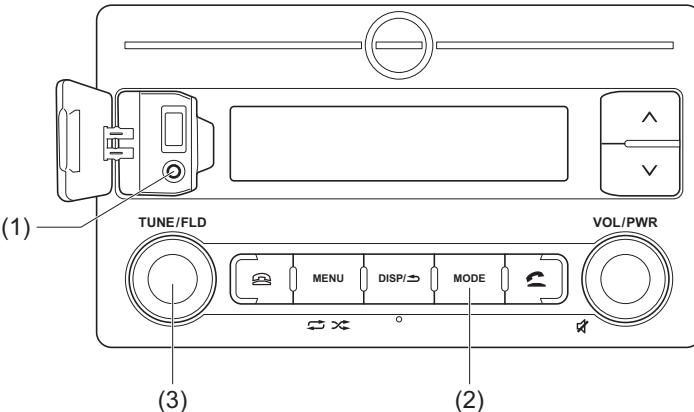
#### NOTE:

*Please do not connect iPod accessory such as iPod remote control or headphones while connecting the iPod with the unit. Unit may not operate correctly.*

## OTHER CONTROLS AND EQUIPMENT

### AUX function

#### EXAMPLE



- (1) AUX socket  
(2) "MODE" button  
(3) "TUNE/FLD" knob

### Display

#### EXAMPLE

AUX

69RH160

### AUX connection

To listen to auxiliary audio sources (sold separately) through the unit, follow the instruction below.

- 1) Connect the auxiliary audio source to the AUX socket (1) with an AUX cable.
- 2) Press and hold "MODE" button (2) to change the display.
- 3) Turn "TUNE/FLD" knob (3) to select "AUX", and press the knob (3) to determine the selection.

#### NOTE:

You can also switch the display in sequence by short pressing the "MODE" button (2).

## **OTHER CONTROLS AND EQUIPMENT**

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### **▲ CAUTION**

- Before connection, mute the unit, and also keep the volume of the auxiliary audio source within a range that will not cause distortion.
- When the audio source is turned off, noise may be emitted. Be sure to turn off the unit or switch to another mode before turning off the audio source.

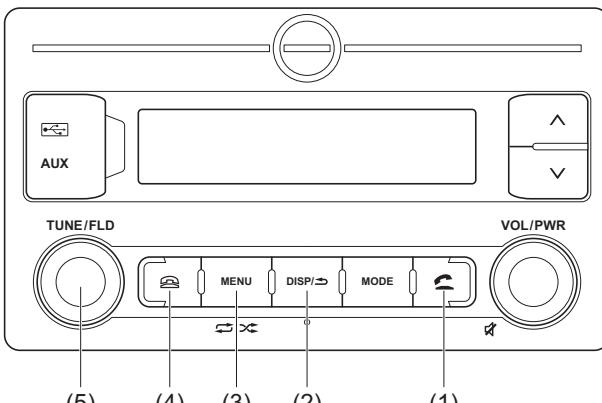
### **NOTE:**

- Please consult your place of purchase for details about whether a given auxiliary audio source can be connected and the proper auxiliary cord to use.
- The volume and tone controls of the auxiliary audio source can be adjusted on the unit.
- In AUX mode, the volume which is set is different from another mode.

## OTHER CONTROLS AND EQUIPMENT

### Setting of Bluetooth® devices

#### EXAMPLE



69RH185

- (1) OFF HOOK button
- (2) "DISP/BACK" button
- (3) "MENU" button
- (4) ON HOOK button
- (5) "TUNE/FLD" knob

#### ! WARNING

**Do not register or set the Bluetooth® device while driving. Stop your vehicle in a safe area before registering the device.**

Bluetooth® related settings can be entered only when the vehicle is in stationary condition.

#### Registration of Bluetooth® devices

To use Bluetooth® devices (Bluetooth® audio or mobile phone) on the audio system, it is required to register the Bluetooth® devices to the audio system. Up to 5 Bluetooth® devices can be registered.

##### NOTE:

- Certain functions cannot be used depending on the Bluetooth® device.
- Refer to the instruction manual of your Bluetooth® device regarding the operation method of Bluetooth®.
- If the pairing cannot be established, the connection operation is canceled.  
For the Bluetooth® device pairing method, refer to the instruction manual of your Bluetooth® device or try pairing again.

- 1) Press "MENU" button (3). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (5) to select "Bluetooth Settings", and press the knob (5) to determine the selection.

## OTHER CONTROLS AND EQUIPMENT

- 3) Turn “TUNE/FLD” knob (5) to select “Pairing”, and press the knob (5) to determine the selection.
- 4) Turn “TUNE/FLD” knob (5) to select “Name & Passkey”, and press the knob (5) to determine the selection.
- 5) Operate and register the Bluetooth® device.

**Secure Simple Pairing (SSP) incompatible Bluetooth® device:**

Enter the passkey into the Bluetooth® device.

**Secure Simple Pairing (SSP) compatible Bluetooth® device:**

Select “Yes” to register the Bluetooth® device.

It is possible to automatically register devices depending on the type of Bluetooth® device.

**NOTE:**

If the Bluetooth® device contains music player and mobile phone function, both functions will be registered simultaneously. When deleting a Bluetooth® device, both functions will be deleted simultaneously.

**Selection from the Bluetooth® phone list**

The list of paired mobile phones is displayed and the various settings can be changed.

- 1) Press “MENU” button (3). Setup menu will be displayed.

- 2) Turn “TUNE/FLD” knob (5) to select “Bluetooth Settings”, and press the knob (5) to determine the selection.
- 3) Turn “TUNE/FLD” knob (5) to select “Pairing”, and press the knob (5) to determine the selection.
- 4) Turn “TUNE/FLD” knob (5) to select “Pairing Phone List”, and press the knob (5) to determine the selection.
- 5) Turn “TUNE/FLD” knob (5) to select one of the registered mobile phones, and press the knob (5) to determine the selection.

**NOTE:**

*“>>” mark appears at the left end of the currently connected mobile phone.*

- 6) Turn “TUNE/FLD” knob (5) to select one of the settings as follows, and press the knob (5) to determine the selection.
  - “Connect”:  
Connect a registered mobile phone.
  - “Disconnect”:  
Disconnect a registered mobile phone.
  - “Delete”:  
Delete a registered mobile phone.

**NOTE:**

*If a device is deleted from phone list, it will be deleted from audio list as well.*

**Selection from the Bluetooth® audio list**

The list of paired Bluetooth® audio is displayed and the various settings can be changed.

- 1) Press “MENU” button (3). Setup menu will be displayed.
- 2) Turn “TUNE/FLD” knob (5) to select “Bluetooth Settings”, and press the knob (5) to determine the selection.
- 3) Turn “TUNE/FLD” knob (5) to select “Pairing”, and press the knob (5) to determine the selection.
- 4) Turn “TUNE/FLD” knob (5) to select “Pairing Audio List”, and press the knob (5) to determine the selection.
- 5) Turn “TUNE/FLD” knob (5) to select one of the registered Bluetooth® audio devices, and press the knob (5) to determine the selection.

**NOTE:**

*“>>” mark appears at the left end of the currently connected Bluetooth® audio.*

- 6) Turn “TUNE/FLD” knob (5) to select one of the settings as follows, and press the knob (5) to determine the selection.
  - “Connect”:  
Connect a registered Bluetooth® audio.
  - “Disconnect”:  
Disconnect a registered Bluetooth® audio.
  - “Delete”:  
Delete a registered Bluetooth® audio.

## OTHER CONTROLS AND EQUIPMENT

### NOTE:

If a device is deleted from audio list, it will be deleted from phone list as well.

### Managing paired devices

The devices paired with the audio unit can be managed from the "Bluetooth® settings" screen. You can connect one Bluetooth® device as audio and another Bluetooth® device as phone from registered Bluetooth® devices simultaneously.

### Change of passkey

- 1) Press "MENU" button (3). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (5) to select "Bluetooth Settings", and press the knob (5) to determine the selection.
- 3) Turn "TUNE/FLD" knob (5) to select "Pairing", and press the knob (5) to determine the selection.
- 4) Turn "TUNE/FLD" knob (5) to select "Edit Passkey", and press the knob (5) to determine the selection.
- 5) Turn "TUNE/FLD" knob (5) to select a number for the first digit, and press the knob (5) to determine the selection. Select and determine numbers for from the second to fourth digits in order in the same manner.
- 6) Press "TUNE/FLD" knob (5) to determine the passkey setting.

### Automatic connection with the Bluetooth® device

If the "BT Power" is set to "ON", turning the ignition switch to "ON" position will automatically connect the registered Bluetooth® device.

- With the automatic connection, the Bluetooth® device that was connected last will be prioritized.
- 1) Press "MENU" button (3). Setup menu will be displayed.
  - 2) Turn "TUNE/FLD" knob (5) to select "Bluetooth Settings", and press the knob (5) to determine the selection.
  - 3) Turn "TUNE/FLD" knob (5) to select "Initial Settings", and press the knob (5) to determine the selection.
  - 4) Turn "TUNE/FLD" knob (5) to select "BT Power".
  - 5) Press "TUNE/FLD" knob (5) to select "ON" or "OFF".

### NOTE:

- When "BT Power" is set to "OFF", the audio system disconnects from the registered Bluetooth® device.
- If "BT Power" is set to "OFF", the audio system will not automatically reconnect the next time the ignition is switched on.

### The device status will be displayed

- 1) Press "MENU" button (3). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (5) to select "Bluetooth Settings", and press the knob (5) to determine the selection.
- 3) Turn "TUNE/FLD" knob (5) to select "Pairing", and press the knob (5) to determine the selection.
- 4) Turn "TUNE/FLD" knob (5) to select "Device Information", and press the knob (5) to determine the selection. The device name and address will be displayed.

### Initialize Bluetooth® settings

It is possible to initialize the Bluetooth® settings.

#### ⚠ CAUTION

- Do not initialize the settings while driving. Stop your vehicle in a safe area before initializing the device.
- Initialize with caution. Initialized settings cannot be restored.

- 1) Press "MENU" button (3). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (5) to select "Bluetooth Settings", and press the knob (5) to determine the selection.
- 3) Turn "TUNE/FLD" knob (5) to select "Initial Settings", and press the knob (5) to determine the selection.

## OTHER CONTROLS AND EQUIPMENT

- 4) Turn “TUNE/FLD” knob (5) to select “Initialize BT”, and press the knob (5) to determine the selection.
  - 5) Turn “TUNE/FLD” knob (5) to select “YES”, and press the knob (5) to determine the selection.
- Items to be initialized to default value:
    - BT Power
    - Talk Volume
    - Ring Volume

### Notes on Bluetooth®



73R0209

- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. Other trademarks and trade names are those of their respective owners.
- This telecommunication equipment conforms to the requirements of the National Telecommunications Commission.
- Stop using this unit and a Bluetooth® ready device whenever requested. This unit shares the communication frequency with other private or public wireless communication equipment such as a wireless LAN and other wireless com-

munication radios.  
You should stop using this unit immediately whenever you are notified that your unit disturbs other wireless communication.

#### Profile

- SSP (Secure Simple Pairing)
- PBAP (Phone Book Access Profile)
- OPP (Object Push Profile)
- HFP (Hand-Free Profile)
- A2DP (Advanced Audio Distribution Profile)
- AVRCP (Audio/Video Remote Control Profile)
- SPP (Serial Port Profile)

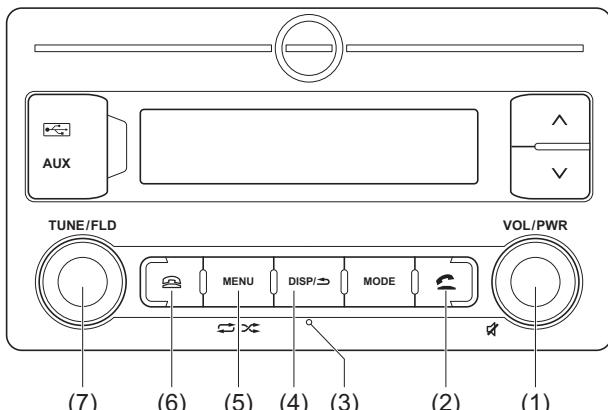
#### NOTE:

- After the Audio system is turned ON, it takes a few seconds to detect and set up Bluetooth® related settings.
- For Bluetooth related issues, unpair, restart your smartphone and try again.

## OTHER CONTROLS AND EQUIPMENT

### Bluetooth® hands-free

#### EXAMPLE



69RH187

- (1) "VOL/PWR" knob
- (2) OFF HOOK button (on audio)
- (3) Microphone
- (4) "DISP/BACK" button
- (5) "MENU" button
- (6) ON HOOK button (on audio)
- (7) "TUNE/FLD" knob

#### NOTICE

- Do not leave your mobile phone inside your vehicle. If the temperature inside the vehicle increases, it may damage your mobile phone.
- When disposing your vehicle, make sure to delete all personal information saved to the audio system.
- The following hands-free data must be deleted from the audio system.
  - Speed dial
  - Reception history/Incoming call history
  - Bluetooth® phonebook data

#### NOTE:

- Please keep your phone volume low. The person's voice who you are talking to may be heard outside of the vehicle and increase the voice echo. When talking on the phone, speak clearly towards the microphone.
- In the following cases, your voice may not be heard clearly by the person on the other line:
  - When driving on unpaved roads. (If there is loud traffic noise.)
  - When driving at high speeds.
  - When driving with the window open.
  - If the air conditioner is blowing directly towards the microphone.
  - When the sound of the air conditioner fan is loud.

## OTHER CONTROLS AND EQUIPMENT

- When there is an adverse effect to the sound quality of the phone or network that you are using.
- The audio system may not function under the following conditions.
  - When the phone power is not turned on.
  - When the mobile phone is out of service.
  - When the mobile phone is not connected.
  - When the mobile phone battery is low
- The Bluetooth®'s hands-free operation is dependent upon the mobile phone's compatibility.
- The Bluetooth®'s hands-free performance is affected by the driving conditions of mobile phone networks, handsets and vehicles.
- The audio system's performance may be restricted due to the model of your mobile phone.
- Bluetooth®, phone battery level and network signal strength status are displayed only when a phone is connected to the system.
- The information depends on status received from the phone.
- The call, contact synchronization action is controlled from the smartphone.

To use the hands-free function with this unit, it is required to register the phone in advance.

It is possible to register a mobile phone and register the phone number to the audio system as follows:

- Up to 1,000 phone numbers can be saved for every registered mobile phone.
- Up to 30 phone numbers of the latest calls can be stored. (30 calls including missed, received and dialed call).
  - When the call history exceeds 30 calls, they are deleted from the oldest one first, and the latest call history information is displayed in descending order.
- Up to 6 phone numbers can be saved to the speed dial list.
- When attempts to establish the pairing fail within 60 seconds, the connecting operation will be canceled. Try to establish the pairing again or refer to the manual of the phone in use for how to establish the pairing with the phone.

### Answer the phone

Press OFF HOOK button (2).

- When you press the ON HOOK button (6) during an incoming call, you can block the call. (Only for compatible phone units)

### NOTE:

- If you receive a call from a registered phone, the caller's name will appear on the screen.
- If you receive a call from an unregistered phone, only the caller's phone number will appear on the screen.

### Hang up the phone

When the call is finished, press the ON HOOK button (6).

### Call waiting

When a phone call is interrupted by a second call, it is possible to hold the current call and answer the other incoming call.

To talk to incoming call:

- Press the OFF HOOK button (2). The current call will be put on hold.
- Every time you press OFF HOOK button (2), the phone call will be switched to the call which was put on hold.
- When the current call is completed, the call which was put on hold will connect.

To refuse the incoming call:

- Press the ON-HOOK button (6).

### NOTE:

This function can only be used with phone units that are compatible with call waiting.

## OTHER CONTROLS AND EQUIPMENT

### Move call to Private mode

If you wish to move a call to private mode, press the "DISP/BACK" button (4).

### Move call to Handsfree mode

If you wish to move the call back to Hands-free Mode, press the "ON/OFF HOOK" button.

### Mute the reception volume

Press "VOL/PWR" knob (1).

To deactivate the mute volume, press "VOL/PWR" knob (1).

### Adjust the reception volume

Turn "VOL/PWR" knob (1) during a call. Turning it clockwise increases the volume; turning it counterclockwise decreases the volume.

#### NOTE:

*The volume and microphone sensitivity settings vary depending on the specifications of each mobile phone.*

### Adjust the ringtone volume

- Turn "VOL/PWR" knob (1) during an incoming call. Turning it clockwise increases the volume; turning it counterclockwise decreases the volume.

### Adjust the volume with the Bluetooth® settings

- 1) Press "MENU" button (5). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (7) to select "Bluetooth Settings", and press the knob (7) to determine the selection.
- 3) Turn "TUNE/FLD" knob (7) to select "Initial Settings", and press the knob (7) to determine the selection.
- 4) Turn "TUNE/FLD" knob (7) to select "Talk volume" or "Ring volume", and press the knob (7) to determine the selection.
- 5) Turn "TUNE/FLD" knob (7) to adjust the volume, and press the knob (7) to determine the selection.

### Make a call

Press the OFF HOOK button (2) to enter the telephone mode.

### Use the phonebook

- 1) Turn "TUNE/FLD" knob (7) to select "Contacts", and press the knob (7) to determine the selection.
- 2) Turn "TUNE/FLD" knob (7) to select the desired initials, and press the knob (7) to determine the selection.
- 3) Turn "TUNE/FLD" knob (7) to select the desired name, and press the knob (7) to determine the selection.
- 4) Turn "TUNE/FLD" knob (7) to select the desired phone number, and press the knob (7) or OFF HOOK button (2).

### Use the call history

- 1) Turn "TUNE/FLD" knob (7) to select "Call Log", and press the knob (7) to determine the selection.
- 2) Turn "TUNE/FLD" knob (7) to select "All", "Missed", "Dialed" or "Received", and press the knob (7) to determine the selection.
- 3) Turn "TUNE/FLD" knob (7) to select the desired name or phone number, and press the knob (7) or OFF HOOK button (2).

### Use the speed dial

- 1) Turn "TUNE/FLD" knob (7) to select "Speed Dial", and press the knob (7) to determine the selection.
- 2) Turn "TUNE/FLD" knob (7) to select the desired name or phone number, and press the knob (7) or OFF HOOK button (2).

#### NOTE:

*Speed dial numbers must be registered before this function can be used.*

## OTHER CONTROLS AND EQUIPMENT

### Transfer all contacts from your mobile phone

- 1) Press "MENU" button (5). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (7) to select "Bluetooth Settings", and press the knob (7) to determine the selection.
- 3) Turn "TUNE/FLD" knob (7) to select "Dial", and press the knob (7) to determine the selection.
- 4) Turn "TUNE/FLD" knob (7) to select "Setup Contacts", and press the knob (7) to determine the selection.
- 5) Turn "TUNE/FLD" knob (7) to select "Overwrite", and press the knob (7) to determine the selection.
- 6) Turn "TUNE/FLD" knob (7) to select "YES", and press the knob (7) to determine the selection.

### Delete the registered phonebook

- 1) Press "MENU" button (5). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (7) to select "Bluetooth Settings", and press the knob (7) to determine the selection.
- 3) Turn "TUNE/FLD" knob (7) to select "Dial", and press the knob (7) to determine the selection.
- 4) Turn "TUNE/FLD" knob (7) to select "Setup Contacts", and press the knob (7) to determine the selection.
- 5) Turn "TUNE/FLD" knob (7) to select "Delete Contacts", and press the knob (7) to determine the selection.

- 6) Turn "TUNE/FLD" knob (7) to select "YES", and press the knob (7) to determine the selection.

### Delete the call history

- 1) Press "MENU" button (5). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (7) to select "Bluetooth Settings", and press the knob (7) to determine the selection.
- 3) Turn "TUNE/FLD" knob (7) to select "Dial", and press the knob (7) to determine the selection.
- 4) Turn "TUNE/FLD" knob (7) to select "Setup Contacts", and press the knob (7) to determine the selection.
- 5) Turn "TUNE/FLD" knob (7) to select "Delete Call Log", and press the knob (7) to determine the selection.
- 6) Turn "TUNE/FLD" knob (7) to select "YES", and press the knob (7) to determine the selection.

### Registration in speed dial

- 1) Press "MENU" button (5). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (7) to select "Bluetooth Settings", and press the knob (7) to determine the selection.
- 3) Turn "TUNE/FLD" knob (7) to select "Dial", and press the knob (7) to determine the selection.
- 4) Turn "TUNE/FLD" knob (7) to select "Add Speed Dial", and press the knob (7) to determine the selection.
- 5) Turn "TUNE/FLD" knob (7) to select "Delete", and press the knob (7) to determine the selection.
- 6) Turn "TUNE/FLD" knob (7) to select "Delete All" or "Delete Contact", and

- 5) Turn "TUNE/FLD" knob (7) to select "Add/Modify", and press the knob (7) to determine the selection.
- 6) Turn "TUNE/FLD" knob (7) to select the desired speed dial number, and press the knob (7) to determine the selection.

- 7) Turn "TUNE/FLD" knob (7) to select the desired initials, and press the knob (7) to determine the selection.
- 8) Turn "TUNE/FLD" knob (7) to select the desired name, and press the knob (7) to determine the selection.
- 9) Turn "TUNE/FLD" knob (7) to select the desired Phone number, and press the knob (7) to determine the selection.
- 10) Turn "TUNE/FLD" knob (7) to select "YES", and press the knob (7) to determine the selection.

### Deletion of speed dial

- 1) Press "MENU" button (5). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (7) to select "Bluetooth Settings", and press the knob (7) to determine the selection.
- 3) Turn "TUNE/FLD" knob (7) to select "Dial", and press the knob (7) to determine the selection.
- 4) Turn "TUNE/FLD" knob (7) to select "Add Speed Dial", and press the knob (7) to determine the selection.
- 5) Turn "TUNE/FLD" knob (7) to select "Delete", and press the knob (7) to determine the selection.
- 6) Turn "TUNE/FLD" knob (7) to select "Delete All" or "Delete Contact", and

## OTHER CONTROLS AND EQUIPMENT

press the knob (7) to determine the selection.

- If you select “Delete Contact”, select the name for delete.

7) Turn “TUNE/FLD” knob (7) to select “YES”, and press the knob (7) to determine the selection.

### Automatic transfer of the phonebook/call history

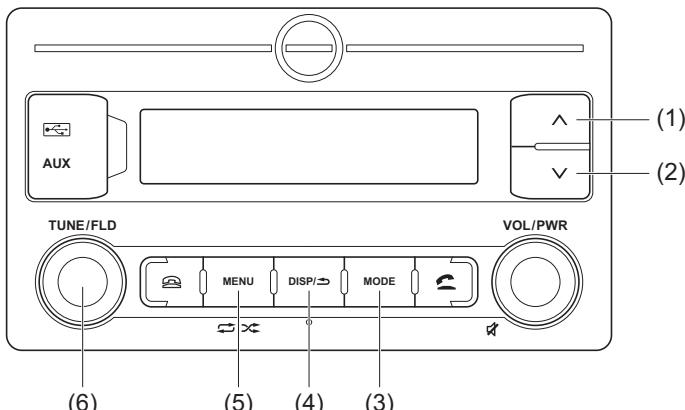
When registering the mobile phone, you can select to automatically transfer the phonebook and call history from your device each time after phone is connected. Select according to the following steps.

- 1) Press “MENU” button (5). Setup menu will be displayed.
- 2) Turn “TUNE/FLD” knob (7) to select “Bluetooth Settings”, and press the knob (7) to determine the selection.
- 3) Turn “TUNE/FLD” knob (7) to select “Dial”, and press the knob (7) to determine the selection.
- 4) Turn “TUNE/FLD” knob (7) to select “Setup Contacts”, and press the knob (7) to determine the selection.
- 5) Turn “TUNE/FLD” knob (7) to select “Auto Transfer”.
- 6) Press “TUNE/FLD” knob (7) to select “ON” or “OFF”.

## OTHER CONTROLS AND EQUIPMENT

### Bluetooth® audio

#### EXAMPLE



69RH146

- (1) UP button
- (2) DOWN button
- (3) "MODE" button
- (4) "DISP/BACK" button
- (5) "MENU" button
- (6) "TUNE/FLD" knob

- (A) Track number
- (B) Play time
- (C) Text information display

#### NOTE:

Some functions may not be usable on some Bluetooth® devices.

#### Selecting Bluetooth® audio mode

- 1) Press and hold "MODE" button (3) to change the display.
- 2) Turn "TUNE/FLD" knob (6) to select "Bluetooth", and press the knob (6) to determine the selection.

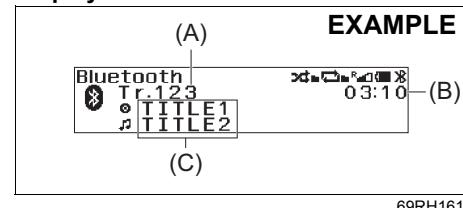
#### NOTE:

You can also switch the display in sequence by short pressing the "MODE" button (3).

#### Selecting a group (only for supported models)

Turn "TUNE/FLD" knob (6) to select a group.

#### Display



69RH161

## OTHER CONTROLS AND EQUIPMENT

### Selecting a track

- Press UP button (1) to listen to the next track.
- Press DOWN button (2) twice to listen to the previous track.

When DOWN button (2) is pressed once, the track currently being played will start from the beginning again.

### Fast forwarding/rewinding a track

- Press and hold UP button (1) to fast forward the track.
- Press and hold down DOWN button (2) to fast rewind the track.
- Releasing the button can stop the fast forwarding/rewinding.

#### NOTE:

Fast forwarding and fast rewinding function can be performed only if it is supported by the player in which the track is being played.

### Repeat playback

#### (if supported by device)

- 1) Press and hold "MENU" button (5) to change the display.
- 2) Turn "TUNE/FLD" knob (6) to select "Repeat".
- 3) Press and then turn "TUNE/FLD" knob (6) to select one of the settings as below and press "TUNE/FLD" knob (6) again to determine the selection.



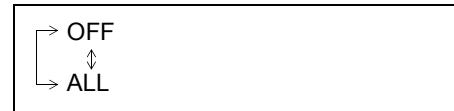
- SONG  
The track currently being played will be played repeatedly.

#### NOTE:

*Settings may be displayed depending on the Bluetooth® device.*

### Random playback (if supported by device)

- 1) Press and hold "MENU" button (5) to change the display.
- 2) Turn "TUNE/FLD" knob (6) to select "Random".
- 3) Press and then turn "TUNE/FLD" knob (6) to select one of the settings as below and press "TUNE/FLD" knob (6) again to determine the selection.



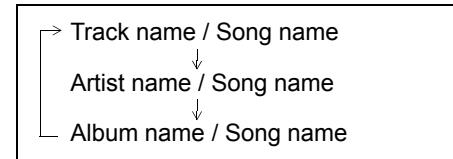
- ALL  
The tracks in the connected device will be played in random order.

#### NOTE:

*Settings may be displayed depending on the Bluetooth® device.*

### Display change

Press "DISP/BACK" button (4). Each time the button is pressed, display will change as follows:



#### NOTE:

• "NO TITLE" will be displayed when there is no text information in the device currently being played.

• If text data contains more characters than the display area, ">" mark will appear at the right end.

## **OTHER CONTROLS AND EQUIPMENT**

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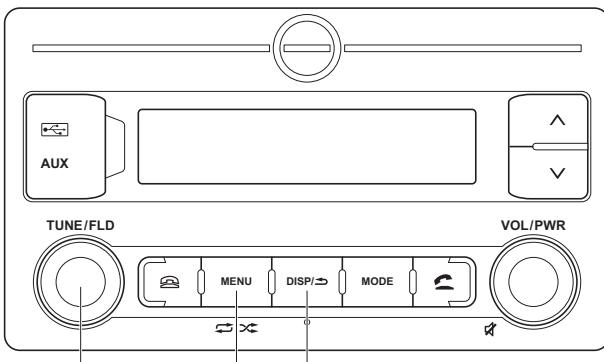
### **Disclaimer for Bluetooth® function**

- Depending on the mobile phone models, some phones may not be compatible fully or partially (some function may be restricted).
- Media playback and handsfree calling through third-party applications is not guaranteed and may have limited support.
- Playback, display contents, connectivity or voice quality etc. may get affected depending on circumstances.
- After the ignition switch is turned to "ON" position the audio system takes few seconds to detect and connect to the Bluetooth® device (if already paired).
- Make sure that you are aware of all applicable local laws and accordingly use Bluetooth® device.

## OTHER CONTROLS AND EQUIPMENT

### Anti-theft feature

#### EXAMPLE



#### Display



69RH162

#### Setting the anti-theft function

- 1) Press "MENU" button (2). Setup menu will be displayed.
- 2) Turn "TUNE/FLD" knob (1) to select "System Settings", and press the knob (1) to determine the selection.
- 3) Turn "TUNE/FLD" knob (1) to select "Security", and press the knob (1) to determine the selection.
- 4) Turn "TUNE/FLD" knob (1) to select "ON", and press the knob (1). "----" will be displayed.
- 5) Enter a 4-digit number to be registered as PIN by turning and pressing the "TUNE/FLD" knob (1).
- 6) After entering 4-digit number, press "TUNE/FLD" knob (1) on "Enter" indication. "Do you want to set XXXX as password" will be displayed.
- 7) Turn "TUNE/FLD" knob (1) to select "YES", and press the knob (1). "XXXX is set as password" will be displayed and the anti-theft function will be set.

#### NOTE:

*Take a note of the registered PIN and keep it for the future use.*

## OTHER CONTROLS AND EQUIPMENT

### Cancelling the anti-theft feature

- To cancel the anti-theft function, delete the registered PIN.
- 1) Press "MENU" button (2). Setup menu will be displayed.
  - 2) Turn "TUNE/FLD" knob (1) to select "System Settings", and press the knob (1) to determine the selection.
  - 3) Turn "TUNE/FLD" knob (1) to select "Security", and press the knob (1) to determine the selection.
  - 4) Turn "TUNE/FLD" knob (1) to select "OFF", and press the knob (1). "----" will be displayed.
  - 5) Enter a 4-digit number to be registered as PIN by turning and pressing the "TUNE/FLD" knob (1).
  - 6) After entering 4-digit number, press "TUNE/FLD" knob (1) on "Enter" indication. The anti-theft function will be canceled.

#### NOTE:

*To change your PIN, first delete your current PIN, and then set a new one.*

### Confirming the Personal Identification Number (PIN)

When the main power source is disconnected such as when the battery is replaced, etc, it is required to enter the PIN to make the unit operable again.

- 1) Set the ignition switch to "ACC" position.  
"SECURITY" will be displayed.
- 2) Press "TUNE/FLD" knob (1). "----" will be displayed.
- 3) Enter a 4-digit number to be registered as PIN by turning and pressing the "TUNE/FLD" knob (1).
- 4) Press and hold "TUNE/FLD" knob (1) for a while.  
When the same PIN as registered is entered, the power of the audio system will be turned off automatically and it will become operable again.

#### NOTE:

*If an incorrect PIN is entered, "ERROR" and the total number of incorrect entry attempts will be displayed.*

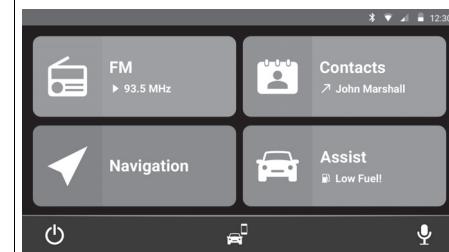
*If an incorrect PIN is entered 10 times or more, "Contact Dealer" will be displayed and the audio system will become inoperable.*

### "Suzuki Smartplay Dock" application

"Suzuki Smartplay Dock" is an application that allows:

- To control the audio system
- Access smartphone features such as calling & messaging.
- Access vehicle speed information.

#### EXAMPLE



69RM05008

This application can be downloaded on smartphone through Google Play store or Apple App Store.

## OTHER CONTROLS AND EQUIPMENT

### ⚠ WARNING

**While driving, ensure adherence to all traffic regulations. Insufficient attention to the road and traffic may cause an accident. It is recommended to familiarize with the tutorial section of application before actual usage.**

**In vehicle running condition, the application can be used in landscape mode only.**

*merely provides the option to display and operate these applications.*

- If many apps are installed, your smartphone might work slowly.*
- For information on using smartphone applications, please read your smartphone instruction manual.*

### NOTE:

- For further information on compatible phones and application download process, please refer to MARUTI SUZUKI website.*
- Application is compatible with smartphones supporting iOS version 9.0, Android OS 5.0 and above.*
- Since this audio allows pairing of 2 devices on Bluetooth® simultaneously, application is supported on the phone which is paired through handsfree profile.*
- Application services are subject to change. It is recommended to install the latest updates for optimal experience.*
- Application functioning is dependent on mobile data carrier and smartphone hardware, OS performance.*
- The smartphone manufacturers are responsible for the content and functions of smartphone applications. The device*

## **OTHER CONTROLS AND EQUIPMENT**

### **Troubleshooting**

When encountering a problem, check and follow the instructions below.

If the described suggestions do not solve the problem, it is recommended to take the unit to a Maruti Suzuki authorised workshop.

<b>Problem</b>	<b>Possible cause</b>	<b>Possible solution</b>
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#### **Common**

Unable to operate	The security function is on.	When "SECURITY" is displayed, enter the PIN. When "Contact Dealer" is displayed, contact a Maruti Suzuki authorised workshop.
Unable to turn on the power (No sound is produced)	Fuse is blown.	Contact a Maruti Suzuki authorised workshop.

#### **Radio**

Much noise	It may not be exactly tuned in to the station.	Tune it in exactly to the station.
Unable to receive by auto tuning	There may be no station emitting signals powerful enough.	Pick up a station by manual tuning.

#### **USB**

Playback does not start when the USB device is connected	There is no supported format file to play on this unit.	Check the file format.
	The current consumption of the USB device exceeds 2.1 A.	Use a USB device with a current consumption lower than 2.1 A.
Sound skips or noise produced	Sound skipping may occur when playing VBR (Variable Bit Rate) files.	It is not recommended to play VBR files.

## OTHER CONTROLS AND EQUIPMENT

Display	Possible solution	Display
<b>Bluetooth®</b>		
Pairing failed	The distance between this unit and the Bluetooth® ready device is too far, or a metallic object may be located between the Bluetooth® ready device and this unit.	Change the location of the Bluetooth® ready device.
	The Bluetooth® function of the Bluetooth® ready device is off.	Refer to the manual of the Bluetooth® ready device. (Some devices have the power saving function that automatically activates after a certain time.)
Unable to receive a call	Your current location may be out of service area.	Drive your vehicle to the service area of the phone.
The voice quality of hands-free is low (Distortion, noise etc.)	Another wireless device may be located near the unit.	Switch off the wireless device or keep it away from the unit. Check the microphone opening for obstruction on audio device.

## OTHER CONTROLS AND EQUIPMENT

### Error display messages

The following messages (flashing) will be displayed onto the screen depending on the condition of the audio system.

Display	Possible solution
<b>USB READ ERROR</b>	When the USB device or iPod reading error occurs, this message will be displayed. Reconnect the USB device or iPod connection cable. When the Bluetooth® audio playback malfunction occurs, this message will be displayed. Check the Bluetooth® audio body.
<b>ERROR 1</b>	When the USB device or iPod communication error occurs, this message will be displayed. Reconnect the USB device or iPod connection cable.
<b>iPod ERROR 1</b>	
<b>ERROR 2</b>	When the USB device or iPod mechanical error occurs, this message will be displayed. Remove the USB device or iPod, and check the USB device or the iPod.
<b>ERROR 3</b>	If the USB device or iPod does not operate due to an over current, this message will be displayed. Remove the USB device or iPod, and check the USB device or the iPod.
<b>HUB NOT SUPPORTED</b>	When the USB hub is connected, this message will be displayed. Disconnect the USB hub.
<b>UNSUPPORTED</b>	When an unsupported iPod is connected, this message will be displayed. Connect the supported iPod.
<b>MEDIA NOT SUPPORTED</b>	When an unsupported USB device is connected, this message will be displayed. Connect the supported USB device. When the Bluetooth® audio playback malfunction occurs, this message will be displayed. Check the Bluetooth® audio body.
<b>NO MUSIC</b>	When an empty USB device or iPod is connected, this message will be displayed. Connect the USB device or iPod containing files with the playable extension.

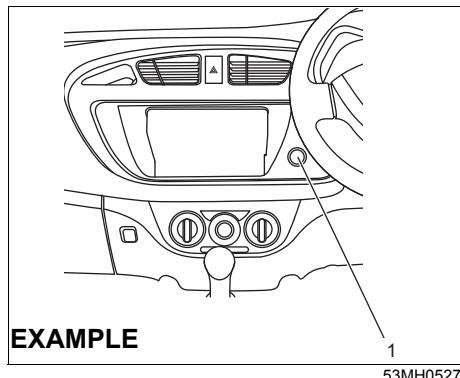
## OTHER CONTROLS AND EQUIPMENT

Display	Possible solution
<b>MEMORY FULL</b>	When the maximum limit for number of phonebook data transfer is reached, this message will be displayed. Delete registered data of unnecessary number in phonebook and try to transfer the register phone numbers in the phonebook again.

## **OTHER CONTROLS AND EQUIPMENT**

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### **Voice Recognition (VR) Button (if equipped)**



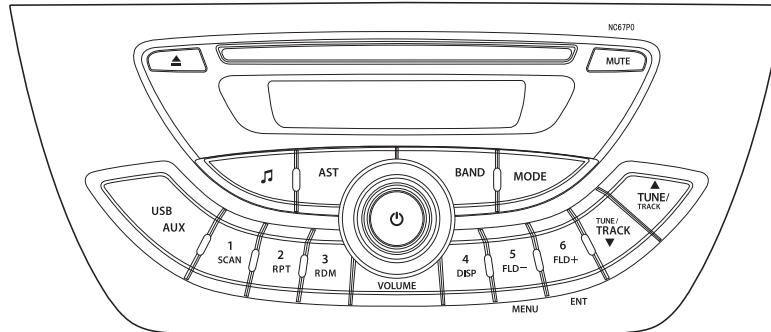
#### **1) Voice recognition (VR) button**

It can be used with a device having a voice recognition function. To use the function, it is necessary to perform a corresponding setting on your device. For operation of the audio system, refer to the "Smartplay Studio Infotainment System manual" provided along with it.

## OTHER CONTROLS AND EQUIPMENT

ALTO K10

### EXAMPLE



AM/FM/USB CD PLAYER

53MM05012

5-50

53MH0-74E

## OTHER CONTROLS AND EQUIPMENT

If you pay extended attention to operating the audio system or viewing the audio system display while driving, an accident can occur. If you set the sound volume too loud, it could prevent you from being aware of road and traffic conditions.

- Keep your eyes on the road and your mind on the drive. Avoid paying extended attention to operating the audio system or viewing the audio system display.
- Familiarize yourself with the audio system controls and operation of the audio system before driving.
- Preset your favorite radio stations before driving so that you can quickly tune to them using the presets.
- Set the sound volume to a level that will allow you to continue to be aware of road and traffic conditions while driving.

### Notes on Discs

#### Precautions

- When the inside of the vehicle is very cold and the player is used soon after switching on the heater, condensation may form on the disc or the optical parts of the player and proper playback may not be possible. If condensation forms on the disc, wipe it off with a soft cloth. If condensation forms on the optical parts of the player, do not use the player for about one hour. This will allow the condensation to disappear normally.
- Driving on extremely bumpy roads which cause severe vibrations may cause sound to skip.
- This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts. Please bring the unit to a Maruti Suzuki authorised workshop.

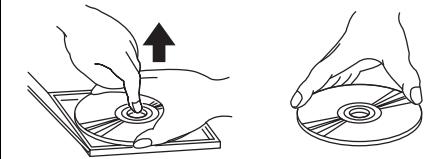
#### Cautions on Handling



53M-07-048

This unit has been designed specifically for playback of compact discs bearing mark (A) shown above.

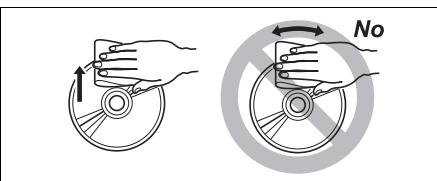
Removing the disc Proper way to hold the compact disc



53M-07-049

To remove the compact disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.

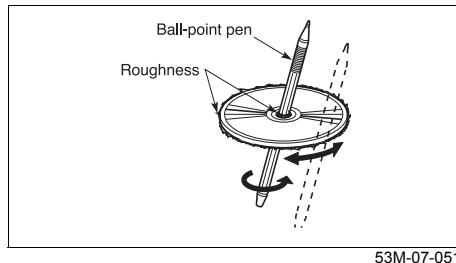
Always handle the compact disc by the edges.  
Never touch the surface.



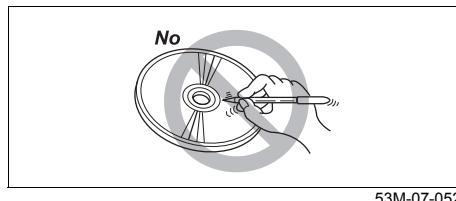
53M-07-050

To remove fingermarks and dust, use a soft cloth, and wipe in a straight line from the center of the compact disc to the circumference.

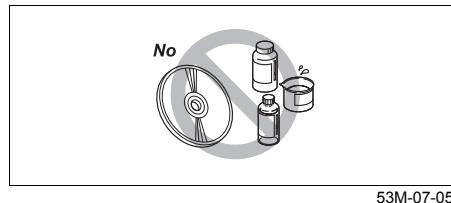
## OTHER CONTROLS AND EQUIPMENT



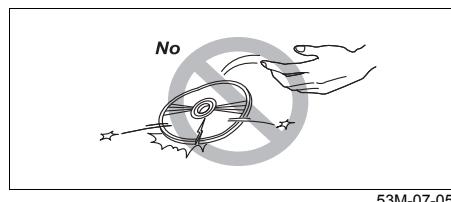
New discs may have some roughness around the edges. The unit may not work or the sound may skip if such discs are used. Use a ball-point pen etc. to remove the roughness from the edges of the disc.



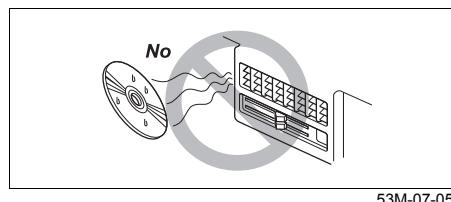
Never stick labels on the surface of the compact disc or write on the surface with a pencil or pen.



Do not use any solvents such as commercially available cleaners, anti-static spray, or thinner to clean compact discs.



Do not use compact discs that have large scratches, are misshaped, or cracked, etc. Use of such discs will cause damage or prevent the system from operating properly.



Do not expose compact discs to direct sunlight or any heat source.

**NOTE:**

- Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These may get caught in the internal mechanism and damage the disc.
- It may be impossible to play CD-R discs with this unit due to the recording conditions.
- CD-RW discs cannot be played with this unit.

**! WARNING**

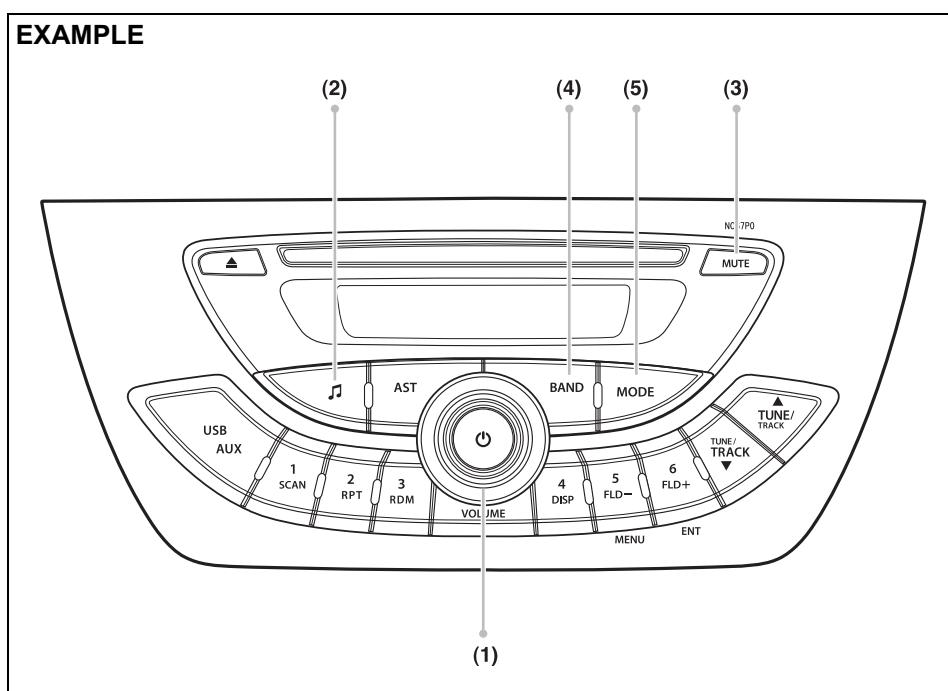
This is a class I laser product. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Do not open covers and do not attempt to repair this unit by yourself. Refer servicing to qualified personnel.

## OTHER CONTROLS AND EQUIPMENT

### Basic Operations

#### EXAMPLE



- (1) VOL PUSH POWER knob
- (2) SOUND button
- (3) MUTE button
- (4) BAND button
- (5) MODE button

53M-07-056

5-53

53MH0-74E

## OTHER CONTROLS AND EQUIPMENT

### Turning power on/off

Press the VOL PUSH POWER knob (1). The unit starts in the function mode it was in when the power was turned off last.

You can also turn the power on by pressing the desired source button

RADIO mode : Press the BAND button (4)

Last accessed media mode : Press the MODE button (5)

### Adjusting the volume

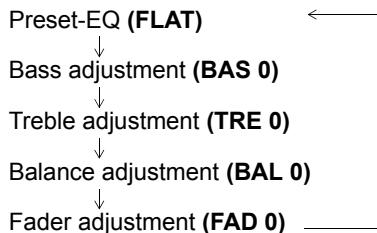
Turning it clockwise increases the volume; turning it counterclockwise decreases the volume.

### Mute

Press the MUTE button (3) to mute the sound. To cancel the mute, press the MUTE button (3) again.

### Adjusting bass/treble/balance / fader

- 1) Press the SOUND button (2). Each time the knob is pressed, sound adjustment will change as follows:



- 2) Turn the VOL PUSH POWER knob (1) to adjust the sound.

### Beep tone

Each time SOUND button (2) is pressed (more than 1 second) beep tone mode switches as follows.

### Preset-EQ

Preset-EQ calls up various sound types in accordance with the listening music type.

- 1) Press the SOUND button (2) several times until "FLAT" appears.
- 2) Turn the VOL PUSH POWER knob (2). Each time the knob is turned, preset EQ mode will change as follows:

#### NOTE:

Once the set is switched off and switched on, the setting on EQ will be remained the previous setting.

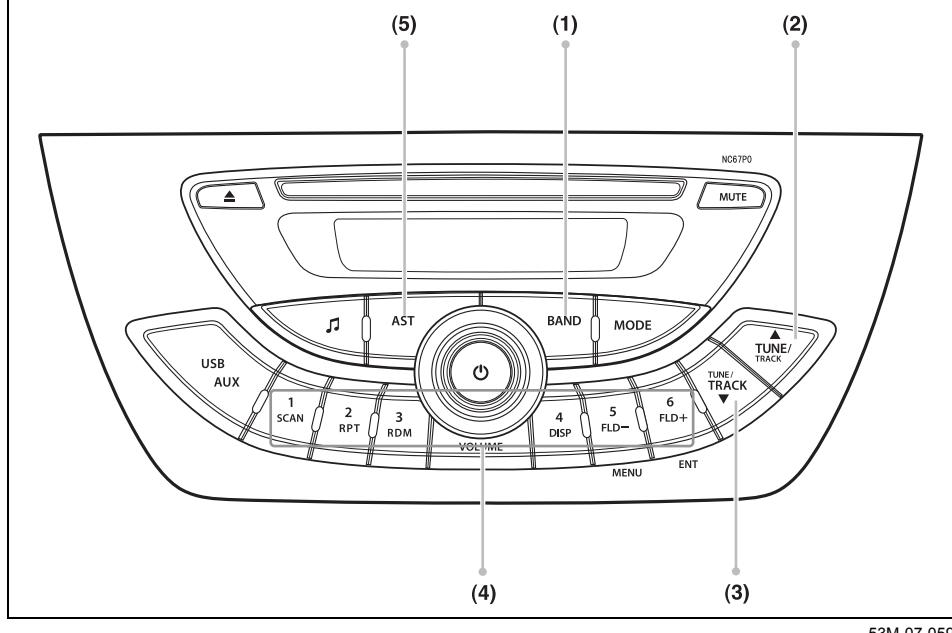


53M-07-058

## OTHER CONTROLS AND EQUIPMENT

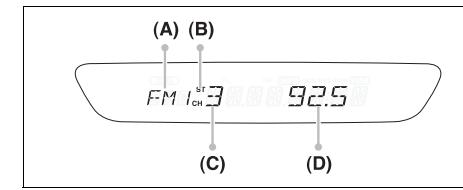
### Listening to Radio

#### EXAMPLE



53M-07-059

#### Display



53M-07-060

- (1) BAND button
- (2) Up button
- (3) Down button
- (4) Preset buttons ([1] to [6])
- (5) AST button

- (A) Band
- (B) Stereo
- (C) preset Channel Number
- (D) Frequency

## OTHER CONTROLS AND EQUIPMENT

### Selecting the reception BAND

Press the BAND button (1). Each time the button is pressed, the reception band will change as follows:



53M-07-061

### Seek tuning

Hold down the seek Up button (2) or the seek Down button (3) for 1 second or longer.

The unit stops searching for a station at a frequency where a broadcast station is available.

### Manual tuning

Press seek Up button (2) or the seek Down button (3).

The frequency being received is displayed. Which receiving FM stereo broadcasting. ST lights up.

### Preset memory

- 1) Select the desired station.
- 2) Hold down a desired button ([1] to [6]) of the Preset buttons (4) to which you want to store the station for 2 seconds or longer.

### Auto store

Hold down the AST button (5) for 1 second or longer. Six stations in good reception will automatically be stored to the Preset buttons (4) in order, starting from a station whose frequency is the lowest.

#### NOTE:

- *Auto store can be released by pressing AS button (5) while auto store is under way.*
- *When the auto store is performed, the station previously stored in the memory at the position is over written.*
- *When there are fewer than 6 stations that can be stored even if 2 rounds of auto store operation is performed, no station will be stored at the remaining Preset buttons (4).*
- *6 stations can be preset for FM1, FM2 and FM3 in common, and 6 stations for AM in auto store mode.*

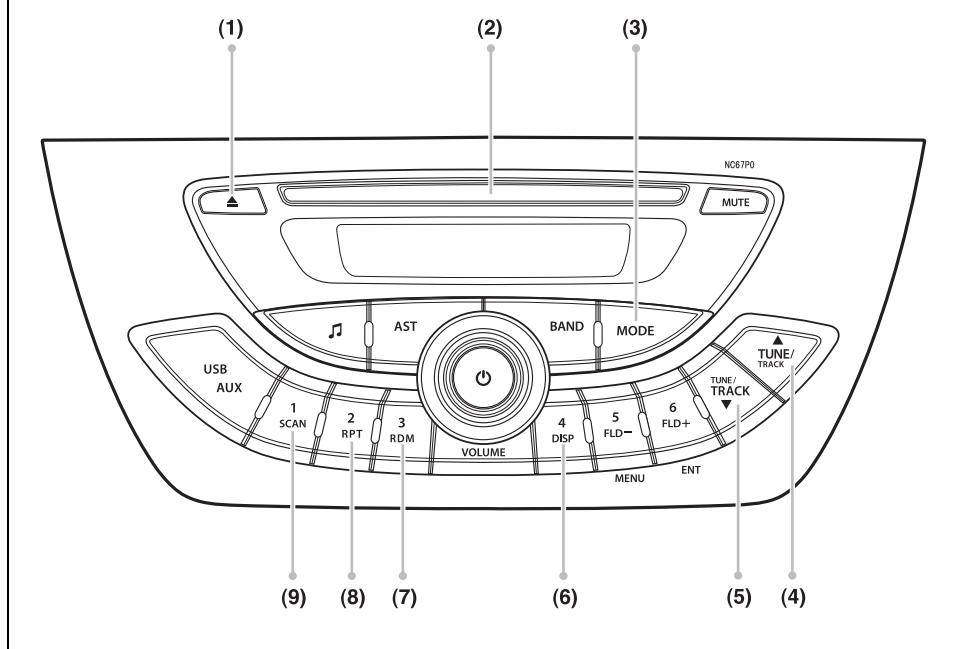
### Radio Reception

Radio reception can be affected by environment, atmospheric conditions, or radio signal's power and distance from the station. Nearby mountains and buildings may interfere or deflect radio reception, causing poor reception. Poor reception or radio static can also be caused by electric current from overhead wires or high voltage power lines.

## OTHER CONTROLS AND EQUIPMENT

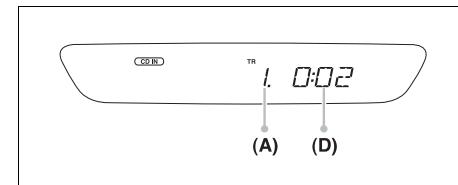
### Listening to a CD

#### EXAMPLE



53M-07-062

#### Display



53MM05011

- (1) Eject button
- (2) Insertion slot
- (3) Media Source Mode button
- (4) Up button
- (5) Down button
- (6) DIPS button
- (7) RDM button
- (8) RPT button
- (9) SCAN button
- (A) Track number
- (B) Play time

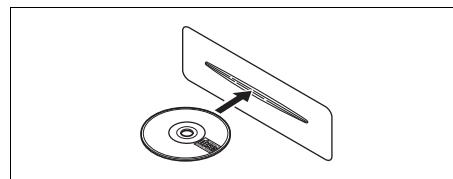
#### NOTE:

This product does not support 8 cm CD (sometimes called as "mini single CD", "3-inch CD", "CD3" etc.).

## OTHER CONTROLS AND EQUIPMENT



- CDs or CD-ROM carrying no mark (A) cannot be used.
- Some discs recorded in CD-R/CD-RW format may sometimes be impossible to use.



- A CD is to be inserted with its label side up.
- When there is a CD already in the unit, it is impossible to insert another CD without ejecting the CD in the unit. Do not use force to insert a CD into the CD insertion slot.

### ⚠ CAUTION

- Never insert your finger or hand into the CD insertion slot. Never insert foreign objects.
- Never insert a CD with glue coming out from adhesive tape or a rental CD label or with a trace indicating that adhesive tape or a rental CD label has been removed. This may cause the CD not to eject or result in a malfunction.

#### Loading a CD

Insert a CD in the Insertion slot (2). With the printed side up.  
When a CD is loaded, play starts.

#### Ejecting a CD

Press the Eject button (1). (After ejecting, the unit returns to the Radio mode.)

### ⚠ CAUTION

- If you forcefully try to push an ejected CD inside the unit before auto reloading, the disc surface might be scratched.
- When reloading a CD, remove it from the unit completely before reloading.

#### NOTE:

- If a disc is inserted after the previous disc is removed from the unit, the unit starts playback from the beginning of the first track.
- If you turn OFF the ACC and within few second so of turning ON the ACC, the unit starts playback from the position from where it has accepted.
- If you press the EJECT button, and leave the disc for roughly 15 seconds, the disc is automatically reinserted into the unit to protect the disc. In this case, the unit doesn't start playback automatically.

#### Selecting a CD mode

Press the Media Source Mode button (3). Each time the button is pressed, the mode will change as follows.

CD → USB → AUX  
↑

53M-07066

## OTHER CONTROLS AND EQUIPMENT

### Listening to a CD

When a CD is inserted, playback will automatically start.

When a CD is already inside the unit, press the Media Source Mode button (3) to select CD mode and to start playback.

### Selecting a track

Press the Up button (4) to listen to the next track.

Press the Down button (5) twice to listen to the previous track. When the Down button (5) is pressed once, the track currently being played will start from the beginning again.

### Fast forwarding/Rewinding a track

- Hold down the Up button (4) to fast forward the track.
- Hold down the Down button (5) to fast rewind the track.

### Track scan play

Press the SCAN button (9). The first 10 seconds of each track in the disc is played in sequence.

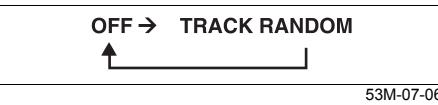
#### NOTE:

*To cancel the scan play, press the SCAN button (9) again or switch to another mode or turn the power off, or eject the disc.*

### Random playback

#### Track Random

Press the RDM button (7). Each time the button is pressed, the mode will change as follows:



The random indicator "RDM" will light. The tracks in the loaded disc will be played in random order.

#### NOTE:

- To cancel random playback, press the RDM button (7) again or eject the disc.

### Repeat playback

#### Track Repeat

Press the RPT button (8). Each time the button is pressed, the mode will change as follows:



The repeat indicator "RPT" will light. The track currently being played will be played repeatedly.

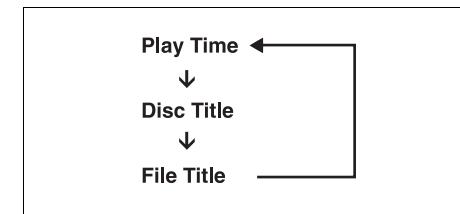
#### NOTE:

- To cancel repeat playback, press the RPT button (8) again or eject the disc.

### Display change

Press the DISP button (8).

Each time the button is pressed, display will change as follows:



**Press the DISP (6) for 1 second or longer.**

Each time this button is pressed, the display switches as follows.

First 8 character next 8 characters.

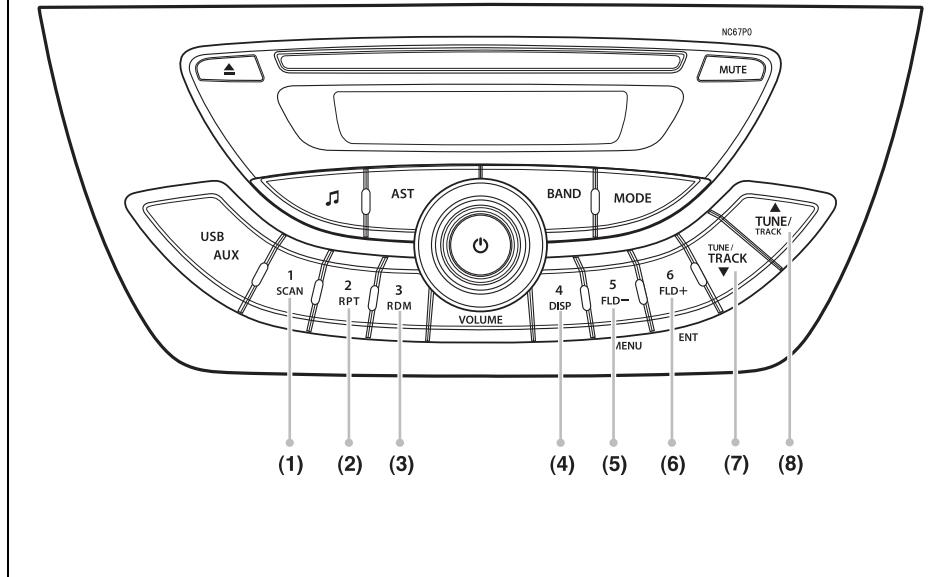
**A total of 16 characters can be displayed.**

- if the number of character is 8 or less, display doesn't switch.
- If the disc/track name is not recorded on the disc, "NO TITLE" will be displayed.

## OTHER CONTROLS AND EQUIPMENT

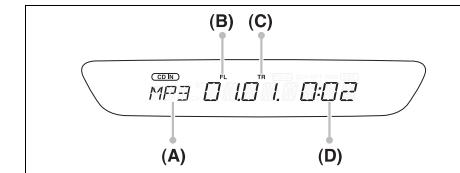
### Listening to an MP3/WMA/AAC Disc

#### EXAMPLE



53M-07-070

#### Display



53-07-071

- (1) SCAN button
  - (2) RPT button
  - (3) RDM button
  - (4) DISP button (1 to 6)
  - (5) FLD - button
  - (6) FLD + button
  - (7) TRACK DOWN button
  - (8) TRACK UP button
- (A) Disc type  
(B) Folder number  
(C) Track time  
(D) Play type

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53MH0-74E

## OTHER CONTROLS AND EQUIPMENT

### Selecting a folder

- Press the Folder Up button (6) to select next folder.
- Press the Folder Down button (5) select previous folder.

### Selecting a track

- Press the Up button (8) to listen to the next track.
- Press the Down button (7) twice to listen to the previous track. When the Down button (7) is pressed once, the track currently being played will start from the beginning again.

### Fast forwarding/Rewinding a track

- Hold down the Up button (2) to fast forward the track.
- Hold down the Down button (3) to fast rewind the track.
- If you keep pressing the UP (8)/DOWN button(7) until the beginning or ending of the disc, the unit release the fast-forward/rewind operation and plays the first track.

### Scan play

#### File scan

Press the SCAN button (1). The first 10 seconds of each file is sequence.

#### Folder scan

press the SCAN button (1) for 1 second or longer. The first 10 seconds of the first file in each folder stored in the disc is played in sequence.

#### NOTE:

*To cancel the scan play, press the SCAN button (1) again or switch to another mode or turn the power off, or eject the disc.*

### Random playback

#### Track random

Press the RDM button (5). the random indicator "RDM" will light. The tracks in the loaded disc will be played in random order.

#### Folder random

Press the RDM button (3) for 1 second or longer.  
The random indicator "RDM and FOLD." will light. The tracks in the current folder will be played in random order.

#### NOTE:

*To cancel random playback, press the RDM button (3) again or eject the disc.*

### Repeat playback

#### Track repeat

Press the RPT button (4).

The repeat indicator "RPT" will light. The track currently being played will be played repeatedly.

#### Folder repeat

press the RPT button (2) for 1 second or longer.

The repeat indicator "RPT and FOLD." will light. All tracks in the currently selected folder will be played repeatedly.

#### NOTE:

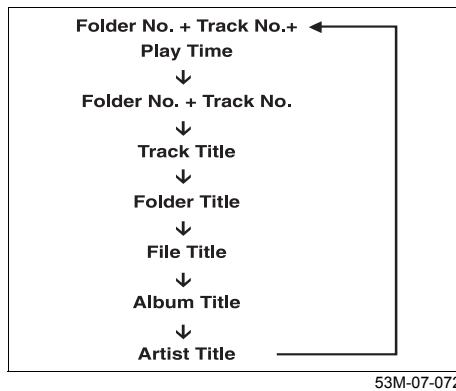
*To cancel the repeat playback, press the RPT button (2) again or eject the disc.*

### Display change

Press the DISP button (6).

Each time the button is pressed, display will change as follows:

## OTHER CONTROLS AND EQUIPMENT



**Press the DISP (4) for 1 second or longer.**

Each time this button is pressed, title display switches as follows.

First 8 characters Next 8 characters.

**A total of 16 characters can be displayed.**

- If the number of character is 8 or less, display doesn't switch.
- If the ID3 tag/tag info is not available on the track, "NO TITLE" will be displayed.

### WMA

- Supports only v7/8/9, DRM/Professional/Loseless/Voice are not supported
- Bit rate:48, 64, 80, 96, 128, 160, 192 kbps
- Sampling frequency:8, 16, 22.05, 32, 44.1 kHz

### AAC

- MPEG4 AAC (Compliant with ISO/IEC 14496-12:2003 + iTunes Meta-data Specification)
- Bit rate:up to 320kbps
- Sampling frequency:8/11.025/ 12/16/ 22.05/24/32/44.1/48 kHz
- Apple loseless is not supported.

### Supported file systems

**ISO 9660 Level 1/Level 2, Joliet, Romeo**

### Maximum number of files/folders

- Maximum number of files: 512 (files + folders)
- Maximum number of files in a folder: 256
- Maximum depth of tree structure: 8
- Maximum number of folders: 255 (Root folder is included.)

### Playing limitations

- The number of tracks and folders that can be played on one disc is as follows:
  - The total number of folders + total tracks=512.
  - However, maximum number of folder is 255.
  - Also, maximum number of the folder level is 8.
- The compression bit rate of MP3 files that can be played with the unit is from 32 kbps to 320 kbps. However, for file capacity and sound quality, 128 kbps and above is recommended. When a file compressed at 128 kbps or less is played, sound quality may be inconsistent. Compatible sampling rates are as follows:
  - MPEG 1 48k 44.1k 32k
  - MPEG2 24k 22.05k 16k
  - MPEG2.5 12k 8k
- When both music CD data (CD-DA) and MP3/WMA/AAC file data exist on one disc, only the music data (CD-DA) is played. Do not write a file other than MP3/WMA/AAC or needless folder in the disc.
- The unit is compatible with files compressed with VBR (Variable Bit Rate), however, the playback time may not be displayed correctly during fast-forward/rewind.
- The unit may not play MP3/WMA/AAC files in the order of recording.

## **OTHER CONTROLS AND EQUIPMENT**

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- As the number of folders recorded on the disc increases, the time to read the disc information also increases.

### **Limitations of displayed information**

- The unit only displays the folder and file name.
- Only one-byte alphanumeric characters and symbols can be displayed. If 2-byte characters can be displayed, they will display as 1 character. If 2-byte character display is not possible, a "\*" will be displayed.
- When playing MP3/WMA/AAC file, the playback time may not be displayed properly.

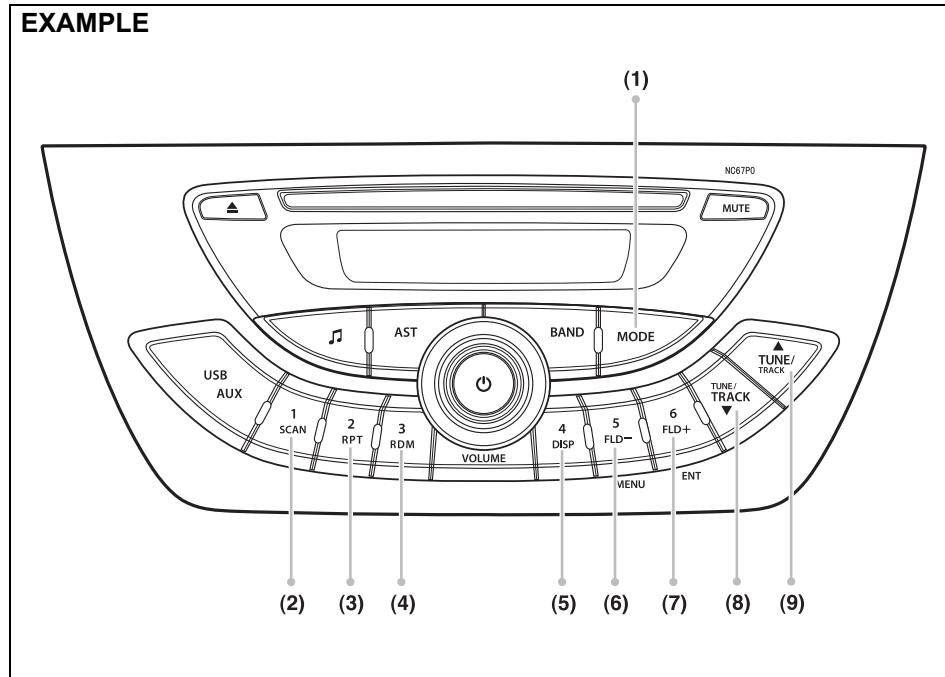
### **⚠ CAUTION**

- The playback order may differ depending on the writing software.
- Make sure to finalize the disc before using on the unit.
- When naming an MP3/WMA/AAC file, make sure to attach the extension ".mp3/.wma/.m4a" to the file name.
- Do not attach the extension ".mp3/.wma/.m4a" to files other than MP3/WMA/AAC files. If a disc with such a file is played, it will be mistakenly recognized and it may cause excessive noise to be emitted, damaging the speaker.
- The unit may not be able to play certain discs depending on disc conditions, recording software or the recorder used for writing the data. In such cases, refer to the instruction manual of the equipment used.
- The unit is compatible with multi-session recorded discs. However, be sure to properly close the session. Disc with a session that has not been closed cannot be played properly. When a disc is initially inserted, some time will be required for reading the data before play can begin.

## OTHER CONTROLS AND EQUIPMENT

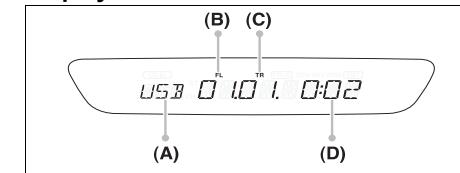
### Listening to files stored in a USB device

#### EXAMPLE



53M-07-073

#### Display



53M-07-074

- (1) Media Source Mode button
- (2) SCAN button
- (3) RPT button
- (4) RDM button
- (5) DISP button
- (6) FLD - button
- (7) FLD + button
- (8) TRACK DOWN button
- (A) USB indicator
- (B) Folder number
- (C) Track number
- (D) Play time

## OTHER CONTROLS AND EQUIPMENT

### NOTICE

**Do not connect any USB device other than a USB memory or a USB audio player. Do not connect multiple USB devices to the USB connector using a USB hub, etc. Supplying power to multiple USB devices from the connector could cause overheating and smoking.**

### Selecting a USB device mode

Press the Media Source Mode button to select USB mode (1).



53M-07-075

### Selecting a folder

Press the Folder Up button (7) to select next folder. Press the Folder Down button (6) select previous folder.

### Selecting a track

- Press the Up button (9) to listen to the next track.
- Press the Down button (8) twice to listen to the previous track. When the Down button (8) is pressed once, the track currently being played will start from the beginning again.

### Fast forwarding/Rewinding a track

- Hold down the Up button (9) to fast forward the track.
- Hold down the Down button (8) to fast rewind the track.
- If you keep pressing the UP (9)/DOWN button(8) until the beginning or ending of the disc, the unit release the fast-forward/rewind operation and plays the first track.

### Scan play

#### File Scan

Press the SCAN button (2). The first 10 seconds of each file is play in sequence.

#### Folder Scan

press the SCAN button (2) for 1 second or longer. The first 10 seconds of the first file in each folder stored in the USB is played in sequence.

#### NOTE:

*To cancel the scan play, press the SCAN button (2) again or eject the USB.*

### Random playback

#### Track random

Press the RDM button (4). the random indicator "RDM" will light. The tracks in the loaded USB device will be played in random order.

#### Folder random

Press the RDM button (4) for 1 second or longer. The random indicator "RDM and FOLD." will light. The tracks in the current folder will be played in random order.

#### NOTE:

*To cancel random playback, press the RDM button (4) again or eject the USB.*

## OTHER CONTROLS AND EQUIPMENT

### Repeat playback

#### File repeat

Press the RPT button (3). The repeat indicator "RPT" will light. The track currently being played will be played repeatedly.

#### Folder Repeat

press the RPT button (3) for 1 second or longer. The repeat indicator "RPT" and FOLD." will light. All tracks in the currently selected folder will be played repeatedly.

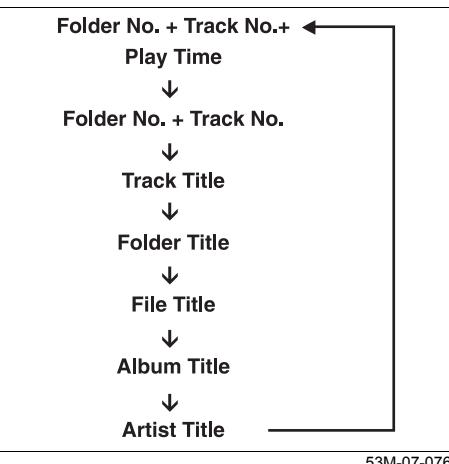
#### NOTE:

*To cancel the repeat playback, press the RPT button (3) again or eject the USB.*

#### Display change

Press the DISP button (7).

Each time the button is pressed, display will change as follows:



#### Press the DISP (6) for 1 second or longer.

Each time this button is pressed, the display switches as follows. First 8 character next 8 characters.

**A total of 16 characters can be displayed.**

If the number of character is 8or less, display doesn't switch. If the ID3 tag/tag info is not available on the track, "NO TITLE" will be displayed.

### Notes on USB device

#### Compatible USB devices

- USB Mass Storage Class
- For details as to whether your USB memory/USB Audio is compatible with USB Mass Storage Class, please contact the USB memory/USB Audio manufacturer.
- USB Standard Compatibility 1.1/2.0 Full Speed
- File System FAT16/32
- Maximum current less than 1 A
- Capacity less than 32 GB (1 partition)

## OTHER CONTROLS AND EQUIPMENT

### USB device connection

- When connecting a USB device, make sure that the connector is pushed all the way into the port.
- Do not leave the USB device for long periods of time in places inside the vehicle where the temperature can rise too high.
- Back up any important data beforehand. We cannot accept responsibility for any lost data.
- It is recommended not to connect a USB device that contains data files other than MP3/WMA/AAC format.
- We recommend against use of USB devices that are non-standard shape such as key chains, mobile phone accessories, etc. which may damage or stress the connection between USB device and Socket terminal.
- Always close the USB socket terminal when not in use, since entry of foreign material, dust, water, conductive liquids may damage the audio system or USB device.
- Device such as MP3 player/Mobile phone/digital camera may not be recognized by the audio system for playing music.

### Recording MP3/WMA/AAC files on a USB device

- Playback or display may not be possible depending on the type of USB device in use or the condition of the recording.
- Depending on the connected USB memory, the files may be played in different order from the order that the files were stored.
- During initialization, the reading time of USB device may vary depending upon factors such as file structure, size and contents other than music files.
- When files recorded contains VBR (variable bit rate), during playback, fast-forward or reverse operation are done.
- The sound quality of MP3/WMA/AAC files generally improves with higher bit rate in order to achieve good sound quality recording with CBR (continuous bit rate) of at least 128kbps is recommended.

### Compression formats

#### MP3

- MPEG 1,2 and 2.5 layer III
- Bit rate:
  - MPEG-1: 32, 44.1, 48 kHz
  - MPEG-2: 16, 22.05, 24 kHz
  - MPEG-2.5: 8, 12 kHz
  - VBR
- Sampling frequency:
  - MPEG-1: 32, 44.1, 48 kHz
  - MPEG-2: 16, 22.05, 24 kHz
  - MPEG-2.5: 8, 12 kHz

### WMA

- Supports only v7/8/9, DRM/Professional/Loseless/Voice are not supported
- Bit rate: 48, 64, 80, 96, 128, 160, 192 kbps
- Sampling frequency: 8, 16, 22.05, 32, 44.1 kHz

### AAC

- MPEG AAC (Compliant with ISO/IEC14496-12:2003 + iTunes Meta-data Specification)
- Bit rate: up to 320kbps
- Sampling frequency: 8/11.025/12/16/22.05/24/32/44.1/48 kHz
- Sampling frequency: 8/11.025/12/16/22.05/24/32/44.1/48 kHz

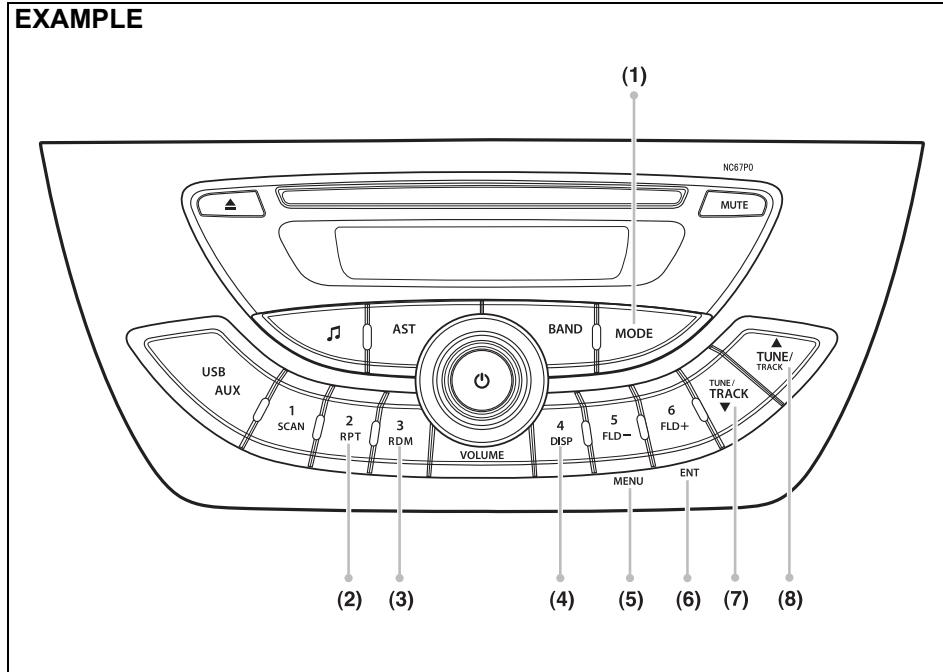
### Maximum number of files/folders

- Maximum number of files: 65280 (files + folders)
- Maximum number of files in a folder: 256
- Maximum depth of tree structure: 8
- Maximum number of folders: 255 (Root folder is included.)

## OTHER CONTROLS AND EQUIPMENT

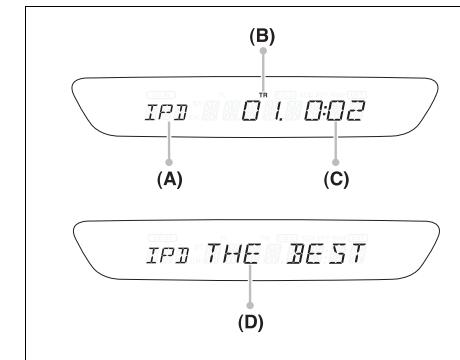
### Listening to an iPod®

#### EXAMPLE



53M-07-077

#### Display



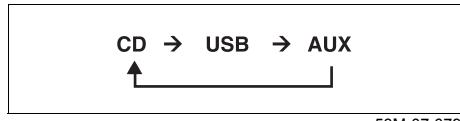
53M-07-078

- (1) Media Source Mode button
- (2) RPT button
- (3) RDM button
- (4) DISP button
- (5) iPod MENU button
- (6) ENTER button
- (7) Up button
- (8) Down button
- (A) iPod indicator
- (B) Track number
- (C) Play time number
- (D) Title information

## OTHER CONTROLS AND EQUIPMENT

### Selecting an iPod® mode

Press the Media Source Mode button (1) to select USB (iPod) mode.



53M-07-079

### Selecting a track

- Press the Up button (8) to listen to the next track.
- Press the Down button (7) twice to listen to the previous track. When the Down button (7) is pressed once, the track currently being played will start from the beginning again.

### Fast forwarding/Rewinding a track

- Hold down the Up button (8) to fast forward the track.
- Hold down the Down button (7) to fast rewind the track.

### Random playback

#### Track random

- Press the RDM button (3).
- The random indicator "RDM" will light. Track random is the same behavior as album shuffle of iPod.

#### Folder random

- Press the RDM button (3) for 1 second or longer.

- The random indicator "FOLD." and "RDM" will light. The folder random is the same as song shuffle or iPod.

#### NOTE:

*To cancel random playback, press the RDM button (3) again or eject the iPod.*

### Repeat playback

#### Track repeat

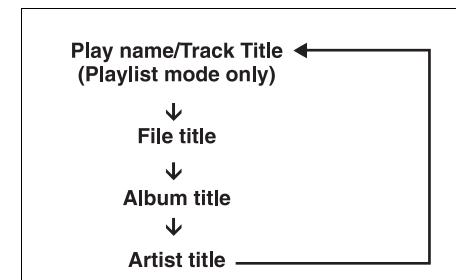
- Press the RPT button (2).
- The repeat indicator "RPT" will light. The track. Repeat is the same behavior as one track repeat of the iPod.

#### NOTE:

- *To cancel repeat playback, press the RPT button (2) again or eject the iPod.*
- *The unit will always trigger Repeat mode (No indication will be displayed on unit) in iPod automatically when iPod is connected.*
- *when repeat mode is triggered, the unit will play all the songs in the category repeatedly. Repeat mode will not be turned off unless 1-track repeat is triggered.*
- *Turning off 1-track repeat will re-enable Repeat mode again.*

### Display change

Press the DISP button (4). Each time the button is pressed, display will change as follow:



53M-07-080

**Press the DISP (4) for 1 second or longer.**

Each time this button is pressed, title display switches as follow. First 8 characters  
Next 8 characters

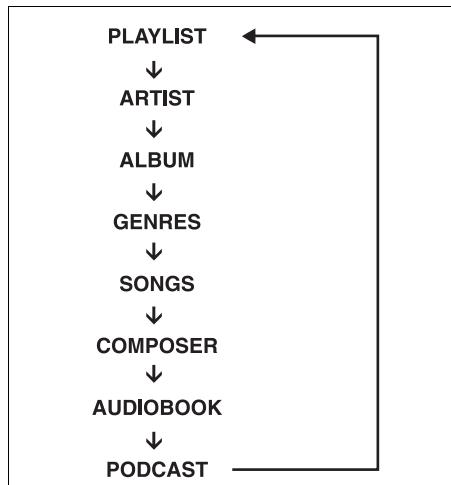
**A total of 16 characters can be displayed.**

- If the number of character is 8 or less, display doesn't switch.
- Text display in iPod menu mode is allowed to switch but it is invalid for first category of iPod menu mode.
- If no data is stored in the particular category, "NO DATA" will be displayed.
- If the file/artist/album title is not recorded on the iPod, "NO TITLE" will be displayed.

## OTHER CONTROLS AND EQUIPMENT

### iPod® menu mode

- 1) Press the MENU button (5).
- 2) Press the Up button (8) or Down button (7) to select the category as follow:
- 3) Press the ENTER button (6) to select the category.
- 4) repeat the step 2 and 3 again to select the desired.



### About resume play

When connecting iPod to car stereo, iPod will start playing the song which played before connecting (resume play). When browse items or lists are changed from resume play, selected song of playlist starts to play and list title also can be displayed.

#### NOTE:

*After entering iPod menu mode, the mode has 30 seconds timeout.*

### About iPod

#### Before using iPod

- iPod is only private usage and may not be used without authorities. Copyright privacy is against the law.
- Operating may be different for each iPod software version.

#### How to connect iPod

- Connect the iPod cable into USB insertion slot.

### Caution for connecting iPod

- When iPod EQ setting is ON, sound may be distorted.
- Before or after connecting, setting (such as shuffle, repeat and etc.) may be changed.
- Remove all equipments, (headphone etc.) when connecting.
- \*iPod may have difficulty of operation.
- Do not leave iPod inside vehicle. Direct sunlight and high temperature may cause damage to iPod.
- Fix iPod at specified way when using the adapter. Removing iPod may interfere with your driving, so accident may occur.
- Read iPod manual for iPod operation.
- When connecting iPod (video), play music once, turn the power off and connect. If video is playing before connection, it may take some time.

53M-07-081

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53MH0-74E

## **OTHER CONTROLS AND EQUIPMENT**

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### **Supported iPod**

<b>iPod/ iPhone models</b>	<b>Software Version</b>
iPhone® 5S	7.1.1
iPhone® 5C	7.1.1
iPhone® 5	7.1.1
iPhone® 4S	7.1.1
iPhone® 4	7.1.1
iPod® touch (5th generation)	7.1.1
iPod® touch (4th generation)	6.1.6
iPod® nano (7th generation)	1.0.3
iPod® nano (6th generation)	1.2
iPod® classic	2.0.5

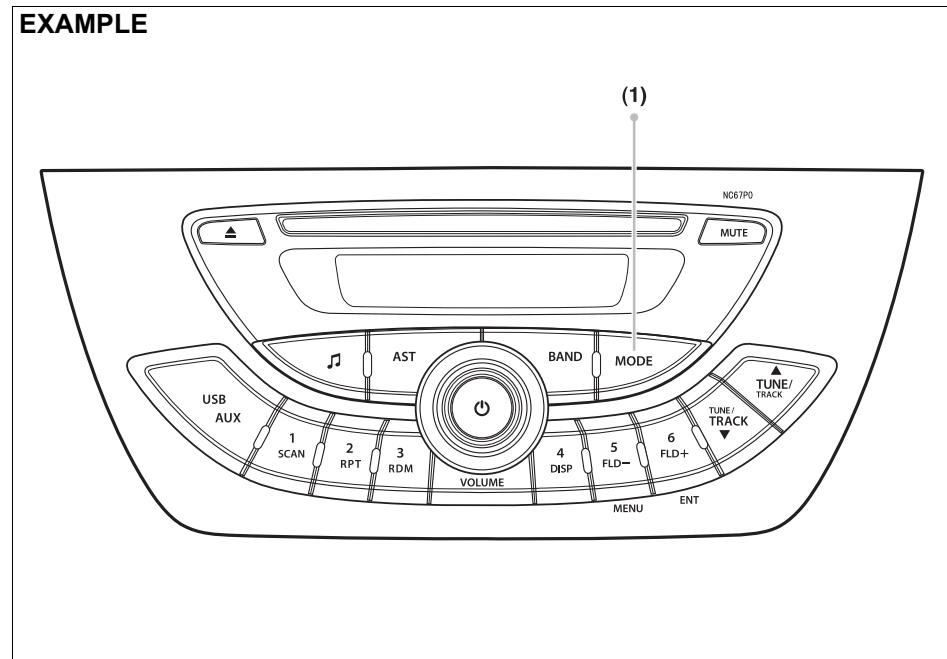
“Made for iPod,” and “Made for iPhone,” mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, or iPhone may affect wireless performance.

iPhone®, iPod®, iPod® classic, iPod® nano, and iPod® touch are trademarks of Apple Inc., registered in the U.S. and other countries.

## OTHER CONTROLS AND EQUIPMENT

### AUX Function

#### EXAMPLE



#### AUX connection

To listen to auxiliary audio sources (sold separately) through the unit, follow the instruction below. 1) Press the Media Source Mode button (1). 2) Connect the auxiliary audio source to the AUX socket with an AUX cable.

#### CAUTION

- Before connection, set the volume for the unit to 0 (When AUX mode is selected) and also keep the volume of the auxiliary audio source within a range that will not cause distortion.
- When the audio source is turned off, noise may be emitted. Be sure to turn off the unit or switch to another mode before turning off the audio source

#### NOTE

- Please consult your place of purchase for details about whether a given auxiliary audio source can be connected and the proper auxiliary cord to use.
- The volume and tone controls of the auxiliary audio source can be adjusted on the unit.

## **OTHER CONTROLS AND EQUIPMENT**

### **Troubleshooting**

#### **FM/AM**

<b>SYMPTOM</b>	<b>CAUSE</b>	<b>REMEDY</b>
<b>The station cannot be received.</b>	The connection of the car antenna has not been made correctly.	Check the connection of the car antenna.
<b>Automatic tuning is not possible.</b>	The broadcast signal is too weak.	Perform manual setting.
<b>The radio sensitivity is poor.</b>	Car antenna is not extended fully or inclining.	Check the car antenna.
<b>No sound is coming out from front speaker or rear speaker.</b>	Adjustment of the front and rear speakers tilts towards either of the side.	According to "Adjusting the audio", adjust the FAD level. For the 2 speakers, adjust the FAD level to "0".

## OTHER CONTROLS AND EQUIPMENT

### Troubleshooting

#### USB

SYMPTOM	CAUSE	REMEDY
<b>NO Device</b>	USB device is not connected	Connect USB memory device properly. Also check if USB connector area is clean.
<b>No File</b>	There is no playable music files	Check data stored in USB memory device is in supported format
<b>Unsupported (Check 04)</b>	The USB device is not supported	Check if data stored in USB memory device is in supported format
<b>Read Error (Check 04)</b>	Cannot read the file which is trying to play by some reason. (File system, Compressed setting, data format, file name expanding, data damaged, file recorded by others may not be supported.)	Check USB memory device if connected properly. If it's not connected properly, reconnect, and select the file which player is able to read and check the data stored in USB memory. You must format the USB memory if necessary.
<b>Operation Error</b>	Cannot be controlled by some reason.	Switch POWER or ACC ON/OFF. If still not recovered, remove the USB memory device and reconnect.
<b>Over Current (Check 05)</b>	The USB device is over the current.	Use other USB memory device whose current consumption is 1A or below. Also check if USB connector area is clean.
<b>Audio will be muted and skip to next track.</b>	The file is protected with copyright (DRM).	The file protected with copyright cannot be played. Select the playable file.

## **OTHER CONTROLS AND EQUIPMENT**

### **IPod/Phone**

SYMPTOM	CAUSE	REMEDY
<b>NO Device</b>	iPod is not connected	It may take some time to recognize iPod. Check iPod or cable to be connected properly. Or check if iPod connector area is clean.
<b>No File</b>	There is no playable music files	Check if data stored in iPod is in supported format

### **Error Display Messages**

The following messages appear during operation to give you hints about how to use the unit properly.

#### **CD**

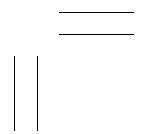
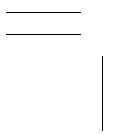
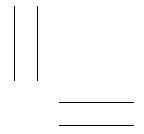
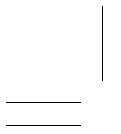
SYMPTOM	CAUSE	REMEDY
<b>CHECK 01</b>	A disc is loaded upside-down inside the CD deck and does not play. An unsupported disc/format is being used.	Eject the disc then reinsert correctly with the printed side upwards. Use supported disc/format only.
<b>CHECK 02</b>	A disc is caught inside the CD deck and is not ejected.	Make sure there is no blockage at the CD slot. If problem persists, turn off the unit and contact your Nippon Service Centre.
<b>CHECK 03</b>	A disc cannot be played due to scratches.	Clean the disc surface. If problem persists, replace with a non-scratched, non-warped disc.
<b>NO DISC</b>	The disc is not inserted.	Insert CD disc into the unit.

## OTHER CONTROLS AND EQUIPMENT

### Error Display Messages

#### USB/iPod

SYMPTOM	CAUSE	REMEDY
<b>CHECK 04</b>	The connected USB device is not supported. The USB device cannot be read.	Use supported USB device with properly encoded audio files. Check USB memory device if connected properly. If it's not connected properly, reconnect, and select the file which player is able to read and check the data stored in USB memory. You must format the USB memory if necessary.
<b>CHECK 05</b>	Over-current is detected.	Use other USB memory device whose current consumption is 1A or below. Also check if USB connector area is clean.
<b>NO DEV</b>	The USB device/iPod is not connected.	Connect USB memory device/iPod properly. Also check if USB connector area is clean.
<b>NO MUSIC</b>	There is no playable music file.	Check data stored in USB memory device/iPod is in supported format.



## **VEHICLE LOADING AND TOWING**

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### **VEHICLE LOADING AND TOWING**

<b>Vehicle Loading .....</b>	<b>6-1</b>
<b>Trailer Towing .....</b>	<b>6-1</b>
<b>Towing Your Vehicle .....</b>	<b>6-2</b>

**6**

## VEHICLE LOADING AND TOWING

### Vehicle Loading

Your vehicle was designed for specific weight capacities. The weight capacities of your vehicle are indicated by the Gross Vehicle Weight Rating (GVWR) and the Permissible maximum Axle Weight (PAW, front and rear). The GVWR and PAW (front and rear) are listed in the "SPECIFICATIONS" section.

GVWR – Maximum permissible overall weight of the fully loaded vehicle (including all the occupants, accessories and cargo plus the trailer nose weight if towing a trailer).

PAW – (Front and Rear) Maximum permissible weight on an individual axle.

Actual weight of the loaded vehicle and actual loads at the front and rear axles can only be determined by weighing the vehicle.

Compare these weights to the GVWR and PAW (front and rear). If the gross vehicle weight or the load on either axle exceeds these ratings, you must remove enough weight to bring the load down to the rated capacity.

#### ! WARNING

**Never overload your vehicle. The gross vehicle weight (sum of the weights of the vehicle, all the occupants, accessories, cargo plus trailer nose weight if towing a trailer) must never exceed the Gross Vehicle Weight Rating (GVWR). In addition, never distribute a load so that the weight on either the front or rear axle exceeds the Permissible maximum Axle Weight (PAW).**

#### ! WARNING

**Always distribute cargo evenly. To avoid personal injury or damage to your vehicle, always secure cargo to prevent it from shifting if the vehicle moves suddenly. Place heavier objects on the floor and as far forward in the cargo area as possible. Never pile cargo higher than the top of the seat backs.**

### Trailer Towing

Your MARUTI SUZUKI was originally designed to carry people and a normal amount of cargo, not to tow a trailer. MARUTI SUZUKI does not recommend you use your vehicle to tow a trailer. Towing a trailer can adversely affect handling, durability, and fuel economy.

## VEHICLE LOADING AND TOWING

### Towing Your Vehicle

Your vehicle may be towed behind another vehicle (such as a motorhome), provided your vehicle is 2 wheel drive (2WD) and you use the proper towing method specified for your vehicle. The towing method you must use depends on the specifications of your vehicle: whether it is a manual transaxle vehicle or an auto gear shift vehicle.

Use the towing instruction table to select the proper towing method for your vehicle, and carefully follow the corresponding instructions. Be sure to use proper towing equipment designed for recreational towing and make sure that towing speed does not exceed 90 km/h (55 mph).

#### ⚠ WARNING

When you tow your vehicle, follow the instructions below to avoid accidents and damage to your vehicle. In addition, be sure to observe government and local requirements regarding vehicle lighting and trailer hitches or tow bars.

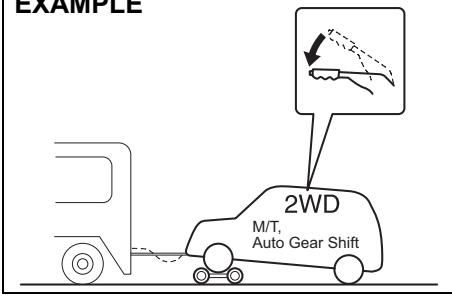
#### ⚠ WARNING

A safety chain should always be used when you tow your vehicle.

### TOWING INSTRUCTION TABLE

DRIVE TRAIN	TRANS MISSION	TOWING METHOD
2WD	M/T	A,B
2WD	Auto Gear Shift	A,B

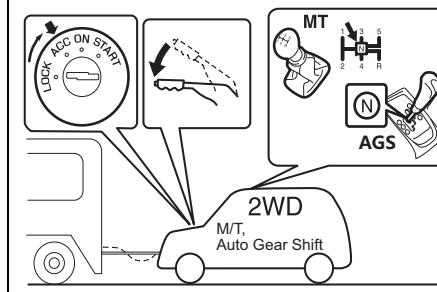
#### EXAMPLE



#### A: 2WD VEHICLES WITH MANUAL TRANSAXLE OR AUTO GEAR SHIFT

- 1) Secure the front wheels on a towing dolly according to the instructions provided by the dolly manufacturer.
- 2) Release the parking brake.

#### EXAMPLE



## VEHICLE LOADING AND TOWING

---

### B: 2WD VEHICLES WITH MANUAL TRANSAXLE OR AUTO GEAR SHIFT

- 1) Shift the gearshift lever into neutral.
- 2) Turn the ignition key to the "ACC" position to unlock the steering wheel.
- 3) Release the parking brake.

#### **NOTICE**

After shifting the auto gear shift gear-shift lever to the "N" position, always check the gear position indicator in the instrument cluster shows the "N" position to make sure that the transaxle is disengaged.

If the transaxle cannot be put in neutral, turn the key from the "OFF" to the "ON" position, and move the auto gear shift lever from "N" to "D", "M" or "R", then back to "N" again. Then turn the key from the "ON" to the "OFF" position.

These procedures may help put the transaxle in neutral. If the transaxle still cannot be put in neutral, you cannot tow the vehicle without using a towing dolly.

#### **NOTICE**

The steering column is not strong enough to withstand shocks transmitted from the front wheels during towing. Always unlock the steering wheel before towing.

## **INSPECTION AND MAINTENANCE**

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### **INSPECTION AND MAINTENANCE**

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## INSPECTION AND MAINTENANCE



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### ⚠ WARNING

You should take extreme care when working on your vehicle to prevent accidental injury. Here are a few precautions that you should be especially careful to observe:

(Continued)

### ⚠ WARNING

(Continued)

- To prevent damage or unintended activation of the air bag system or seat belt pretensioner system, be sure the battery is disconnected and the ignition switch has been in the "LOCK" position for at least 90 seconds before performing any electrical service work on your vehicle. Do not touch air bag system components, seat belt pretensioner system components or wires.

The wires are wrapped with yellow tape or yellow tubing, and the couplers are yellow for easy identification.

- Do not leave the engine running in garages or other confined areas.
- When the engine is running, keep hands, clothing, tools, and other objects away from the fan and drive belt. Even though the fan may not be moving, it can automatically turn on without warning.

(Continued)

### ⚠ WARNING

(Continued)

- When it is necessary to do service work with the engine running, make sure that the parking brake is set fully and the transaxle is in Neutral.
- Do not touch ignition wires or other ignition system parts when starting the engine or when the engine is running, or you could receive an electric shock.
- Be careful not to touch a hot engine, exhaust manifold and pipes, muffler, radiator and water hoses.
- Do not allow smoking, sparks, or flames around fuel or the battery. Flammable fumes are present.
- Do not get under your vehicle if it is supported only with the portable jack provided in your vehicle.
- Be careful not to cause accidental short circuits between the positive and negative battery terminals.
- Keep used oil, coolant, and other fluids away from children and pets. Dispose of used fluids properly; never pour them on the ground, into sewers, etc.

## **INSPECTION AND MAINTENANCE**

### **Maintenance Schedule**

The following table shows when regular maintenance on your vehicle is required, this table shows in kilometers and months when inspections, adjustments, lubrication and other services should be performed.

#### **⚠ WARNING**

MARUTI SUZUKI recommends that maintenance on your MARUTI SUZUKI vehicle be performed by Maruti Suzuki authorised workshop.

#### **⚠ CAUTION**

Whenever it becomes necessary to replace parts on your vehicle, it is recommended that you use MARUTI GENUINE PARTS (MGP).

### **Periodic Maintenance Schedule**

#### **ALTO**

“A”: Adjust

“C”: Clean

“R”: Replace or Change

“I” : Inspect, clean, adjust, lubricate or replace as necessary

“L” : Lubricate

“T” : Tighten to Specified Torque

“O”: Rotate

#### **NOTE:**

*This table includes services as scheduled up to 80,000 km mileage. Beyond 80,000 km, carry out the same services at the same intervals respectively.*

## INSPECTION AND MAINTENANCE

*Interval: This interval should be judged by odometer reading or months, whichever comes first.	km (x 1,000) months	FREE INSPECTIONS			PERIODIC MAINTENANCE SERVICE AT COST						
		1	5	10	20	30	40	50	60	70	80
		1	6	12	24	36	48	60	72	84	96
<b>ENGINE</b>											
1. Water pump drive belt (Tension, Wear)		A	I	I	I	I	I	I	R	A	I
2. Engine Coolant (Level, Leakage)		I	I	I	R	I	R	I	R	I	R
3. Engine oil and Oil filter		R	I	R	R	R	R	R	R	R	R
4. Cooling system hoses and connections (Leakage, Damage)		I	I	I	I	I	I	I	I	I	I
5. Engine mounting and manifold fixings (Loose, Damage)		-	-	I	-	I	-	I	-	I	-
6. Valve Clearance		-	A	-	A	-	A	-	A	-	A
7. Camshaft timing belt (Damage, Wear)		-	-	-	I	-	I	-	I	-	I
8. Exhaust system (Noise, Leakage etc.)		-	I	-	I	-	I	-	I	-	I
9. Positive crankcase ventilation System (Hoses, Connections and Valve)		-	I	-	I	-	I	-	I	-	I
<b>IGNITION</b>											
1. Ignition wiring (Damage, Deterioration)		-	-	-	I	-	I	-	I	-	I
2. Spark plugs (Clean and Adjust the gap)		-	-	I	R	I	R	I	R	I	R
<b>FUEL</b>											
1. Air cleaner	Paved-road	Clean every 5,000 km. Replace after every 40,000 km.									
	Dusty condition	Clean every 2,500 km or as required. Replace after every 40,000 km. More frequent replacement if dust condition is severe.									
2. Fuel tank cap, fuel lines and connections (Leakage, Damage)	-	I	-	-	-	-	I	-	-	-	I
3. Fuel filter (Leakage)	I	I	I	I	I	I	R	I	I	I	R
<b>CLUTCH AND TRANSMISSION</b>											
1. Clutch pedal (Play)	I	I	I	I	I	I	I	I	I	I	I
2. Clutch slipping (Dragging or Excessive damage)	I	I	I	I	I	I	I	I	I	I	I
3. Manual Transmission Oil (Level, Leakage)	I	I	I	I	I	I	I	I	I	I	I
	Replace every 1,60,000 km or 10 years, which ever comes earlier										
<b>DRIVE SHAFTS</b>											
1. Drive shafts boot (Boot cut / Damage)	-	I	I	I	I	I	I	I	I	I	I
2. Drive Shaft Noise	I	I	I	I	I	I	I	I	I	I	I

## INSPECTION AND MAINTENANCE

*Interval: This interval should be judged by odometer reading or months, whichever comes first.	km (x 1,000) months	FREE INSPECTIONS			PERIODIC MAINTENANCE SERVICE AT COST					
		1	5	10	20	30	40	50	60	80
		1	6	12	24	36	48	60	72	96
<b>BRAKE</b>										
1. Brake fluid (Level, Leakage)	I	I	I	R	I	R	I	R	I	R
2. Brake pedal (Pedal-to-wall clearance)	I	I	I	I	I	I	I	I	I	I
3. Parking brake lever and cable (Play, Damage)	I	I	I	I	I	I	I	I	I	I
4. Brake discs and pads (Wear)	-	I	I	I	I	I	I	I	I	I
5. Brake drums & shoes (Wear)	-	-	I	I	I	I	I	I	I	I
6. Master cylinder, wheel cylinder and caliper piston (Fluid leakage, Boot/Seal Damage)	I	I	I	I	I	I	I	I	I	I
7. Brake hoses and pipes (Fluid leakage, Damage)	I	I	I	I	I	I	I	I	I	I
<b>WHEEL</b>										
1. Tyres (Air pressure, Abnormal wear, Crack, Rotation)	I	I&O	I&O	I&O	I&O	I&O	I&O	I&O	I&O	I&O
2. Wheels (Damage)	I	I	I	I	I	I	I	I	I	I
3. Front/Rear wheel bearings (Loose, Damage)	I	I	I	I	I	I	I	I	I	I
<b>FRONT AND REAR SUSPENSION</b>										
1. Suspension strut (Oil leakage, Damage)	I	I	I	I	I	I	I	I	I	I
2. Suspension arms/knuckle support and Torsion rod (Loose, Damage)	-	I	I	I	I	I	I	I	I	I
3. Rear spring (Damage)	I	I	I	I	I	I	I	I	I	I
4. Shock absorbers (Oil leakage, Damage)	I	I	I	I	I	I	I	I	I	I
5. All bolts and nuts (Loose)	-	T	T	T	T	T	T	T	T	T
6. Suspension arms and Tension rods (Loose, Damage)	-	I	I	I	I	I	I	I	I	I
<b>STEERING</b>										
1. Steering wheel (Play, Loose)	I	I	I	I	I	I	I	I	I	I
2. All rods and arms (Loose, Damage, Wear)	I	I	I	I	I	I	I	I	I	I
<b>ELECTRICAL</b>										
1. Battery electrolyte (Level, leakage)	I	I	I	I	I	I	I	I	I	I
2. Wiring harness connection (Loose, Damage)	-	I	I	I	I	I	I	I	I	I
3. Lighting system (Operation, Stains, Damage)	I	I	I	I	I	I	I	I	I	I
4. Horn (Operation)	I	I	I	I	I	I	I	I	I	I
5. System voltage	I	I	I	I	I	I	I	I	I	I
6. AUX, USB (if equipped) and accessory socket (operation)	I	I	I	I	I	I	I	I	I	I
<b>BODY</b>										
1. All chassis bolts and nuts (Tighten)	-	I	I	T	T	T	T	T	T	T

## INSPECTION AND MAINTENANCE

*Interval: This interval should be judged by odometer reading or months, whichever comes first.	km (x 1,000) months	FREE INSPECTIONS			PERIODIC MAINTENANCE SERVICE AT COST						
		1	5	10	20	30	40	50	60	70	80
		1	6	12	24	36	48	60	72	84	96
2. All latches, hinges and locks (Function)		I	I&L	I&L	I&L	I&L	I&L	I&L	I&L	I&L	I&L
<b>ROAD TEST</b>											
1. Operation of Brakes, Gear shifting and speedometer		I	I	I	I	I	I	I	I	I	I
2. Body and Chassis noise		I	I	I	I	I	I	I	I	I	I
<b>AIR CONDITIONER (if equipped)</b>											
1. Check belt tension		I	I	I	I	I	I	I	I	I	I
2. Tighten compressor mounting bolts		-	T	T	T	T	T	T	T	T	T
3. All hose joints (Check, Tighten)		I	I	I	I	I	I	I	I	I	I
4. Check functioning of Recirculating flap		I	I	I	I	I	I	I	I	I	I
5. Clean condenser with low pressure water		-	C	C	C	C	C	C	C	C	C
6. Check belt for frayed edges, change if necessary		I	I	I	I	I	I	I	I	I	I
7. Check all mounting bolts		I	I	I	I	I	I	I	I	I	I

## **INSPECTION AND MAINTENANCE**

### **Periodic Maintenance Schedule**

#### **ALTO K10**

**“A”:** Adjust

**“C”:** Clean

**“R”:** Replace or Change

**“I” :** Inspect, clean, adjust, lubricate or  
replace as necessary

**“L” :** Lubricate

**“T” :** Tighten to Specified Torque

**“O”:** Rotate

#### **NOTE:**

*This table includes services as scheduled  
up to 80,000 km mileage. Beyond 80,000  
km, carry out the same services at the  
same intervals respectively.*

## INSPECTION AND MAINTENANCE

*Interval: This interval should be judged by odometer reading or months, whichever comes first.	km (x 1,000) months	FREE INSPECTIONS			PERIODIC MAINTENANCE SERVICE AT COST							
		1	5	10	20	30	40	50	60	70	80	
		1	6	12	24	36	48	60	72	84	96	
<b>ENGINE</b>												
1.	Water pump drive belt (Tension, Wear)	-	-	-	-	-	I	-	-	-	I	
2.	Engine Coolant (Level, Leakage)	I	I	I	R	I	R	I	R	I	R	
3.	Engine oil and Oil filter	-	-	R	R	R	R	R	R	R	R	
4.	Cooling system hoses and connections (Leakage, Damage)	I	I	I	I	I	I	I	I	I	I	
5.	Engine Mounting and manifold fixings (Loose, Damage)	-	-	I	-	I	-	I	-	I	-	
6.	Valve Clearance	Petrol	-	-	-	I	-	-	I	-	-	
		CNG	-	-	I	-	I	-	I	-	I	
7.	Exhaust System (Noise, Leakage etc.)	-	I	-	I	-	I	-	I	-	I	
8.	Positive crankcase ventilation System (Hoses, Connections and Valve)	-	I	-	I	-	I	-	I	-	I	
<b>IGNITION</b>												
1.	Ignition wiring (Damage, Deterioration)	-	-	-	I	-	I	-	I	-	I	
2.	Spark plugs	-	-	-	-	-	R	-	-	-	R	
<b>FUEL</b>												
1.	Air cleaner	Paved-road	Clean every 5,000 km. Replace after every 40,000 km.									
		Dusty condition	Clean every 2,500 km or as required. Replace after every 40,000 km. More frequent replacement if dust condition is severe.									
2.	Fuel tank cap, fuel lines and connections (Leakage, Damage)	-	I	-	-	-	I	-	-	-	I	
3.	Fuel filter (Leakage)	-	I	I	I	I	R	I	I	I	R	
<b>CLUTCH AND TRANSMISSION</b>												
1.	Clutch pedal (Play)	I	I	I	I	I	I	I	I	I	I	
2.	Clutch slipping (Dragging or Excessive damage)	I	I	I	I	I	I	I	I	I	I	
3.	Manual Transmission Oil (Level, Leakage)	I	I	I	I	I	I	I	I	I	I	
		Replace every 1,60,000 kms or 10 years whichever comes first										
<b>DRIVE SHAFTS</b>												
1.	Drive shaft boots (Boot cut / Damage)	-	I	I	I	I	I	I	I	I	I	
2.	Drive Shaft Noise	I	I	I	I	I	I	I	I	I	I	
<b>BRAKE</b>												
1.	Brake fluid (Level, Leakage)	I	I	I	R	I	R	I	R	I	R	
2.	Brake pedal (Pedal-to-wall clearance)	I	I	I	I	I	I	I	I	I	I	

## INSPECTION AND MAINTENANCE

*Interval: This interval should be judged by odometer reading or months, whichever comes first.	km (x 1,000) months	FREE INSPECTIONS			PERIODIC MAINTENANCE SERVICE AT COST						
		1	5	10	20	30	40	50	60	70	80
		1	6	12	24	36	48	60	72	84	96
3. Parking brake level and cable (Play, Damage)											
4. Brake discs and pads (Wear)		-									
5. Brake drums & shoes (Wear)		-	-								
6. Master cylinder, wheel cylinder and caliper piston (Fluid leakage, Boot/Seal Damage)											
7. Brake hoses and pipes (Fluid leakage, Damage)											
<b>WHEEL</b>											
1. Tyres (Air pressure, Abnormal wear, Crack and Rotation)			I&O	I&O	I&O	I&O	I&O	I&O	I&O	I&O	I&O
2. Wheels (Damage)											
3. Front/Rear wheel bearing (Loose, Damage)											
<b>FRONT AND REAR SUSPENSION</b>											
1. Suspension strut (Oil leakage, Damage)											
2. Suspension arms/knuckle support and Torsion rod (Loose, Damage)		-									
3. Rear spring (Damage)											
4. Shock absorbers (Oil leakage, Damage)											
5. All bolts and nuts (Loose)		-	T	T	T	T	T	T	T	T	T
6. Suspension arms and Tension rods (Loose, Damage)		-									
<b>STEERING</b>											
1. Steering wheel (Play, Loose)											
2. All rods and arms (Loose, Damage, Wear)											
<b>ELECTRICAL</b>											
1. Battery electrolyte (Level, Leakage)											
2. Wiring harness connection (Loose, Damage)		-									
3. Lighting system (Operation, Stains, Damage)											
4. Horn (Operation)											
5. System voltage											
<b>BODY</b>											
1. All chassis bolts and nuts (Tighten)		-		T	T	T	T	T	T	T	T
2. All latches, hinges and locks (Function)			I&L	I&L	I&L	I&L	I&L	I&L	I&L	I&L	I&L
<b>ROAD TEST</b>											
1. Operation of Brakes, Gear shifting and speedometer											
2. Body and Chassis noise											

## INSPECTION AND MAINTENANCE

*Interval: This interval should be judged by odometer reading or months, whichever comes first.	km (x 1,000) months	FREE INSPECTIONS			PERIODIC MAINTENANCE SERVICE AT COST					
		1	5	10	20	30	40	50	60	80
		1	6	12	24	36	48	60	72	96
<b>AIR CONDITIONER (if equipped)</b>										
1. Check belt tension		I	I	I	I	I	I	I	I	I
2. Tighten compressor mounting bolts		-	T	T	T	T	T	T	T	T
3. Check all hose joints (Check, Tighten)		I	I	I	I	I	I	I	I	I
4. Check functioning of Recirculating flap		I	I	I	I	I	I	I	I	I
5. Clean condenser with low pressure water		-	C	C	C	C	C	C	C	C
6. Check belt for frayed edges, change if necessary		I	I	I	I	I	I	I	I	I
7. Check all mounting bolts		I	I	I	I	I	I	I	I	I

## INSPECTION AND MAINTENANCE

### Drive Belt

#### ⚠ WARNING

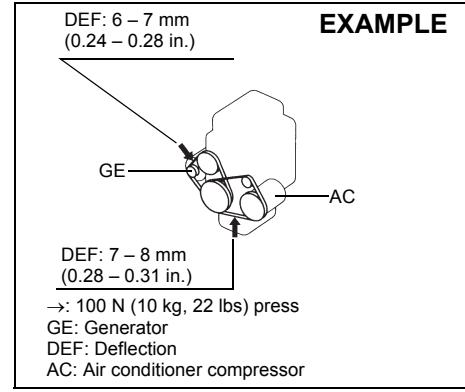
When the engine is running, keep hands, hair, clothing, tools, etc. away from the moving fan and drive belts.

Make sure the drive belt tension is correct. If the belt is too loose, insufficient battery charging, engine overheating, poor power steering, poor air conditioning, or excessive belt wear can result. When you press the belt with your thumb midway between the pulleys, there should be a deflection according to the following chart.

The belts should also be examined to ensure that they are not damaged.

If you need to replace or adjust the belt have it done by your Maruti Suzuki authorised workshop.

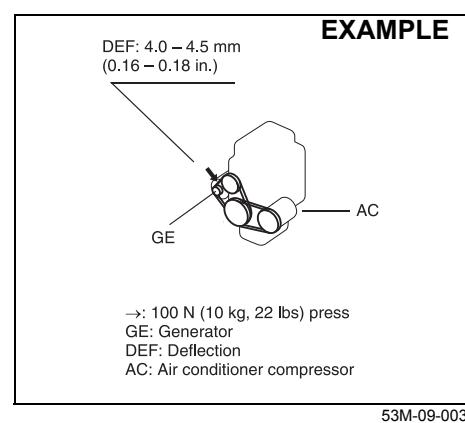
#### F8D



#### EXAMPLE

53MM07012

#### K10B

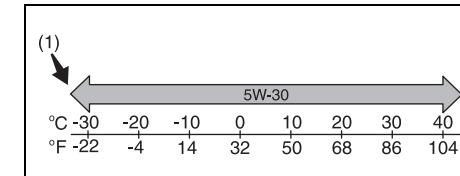


#### EXAMPLE

53M-09-003

### Engine Oil and Filter

#### Specified Oil (ALTO)



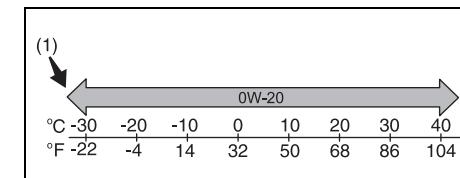
53M-09-004

(1) Preferred

Be sure that the engine oil you use comes under the quality classification of SG+, SL, SM and SN. Select the appropriate oil viscosity according to the above chart.

SAE 5W-30 (1) is the best choice for good fuel economy, and good starting in cold weather.

#### Specified Oil (ALTO K10)



53M-09-005

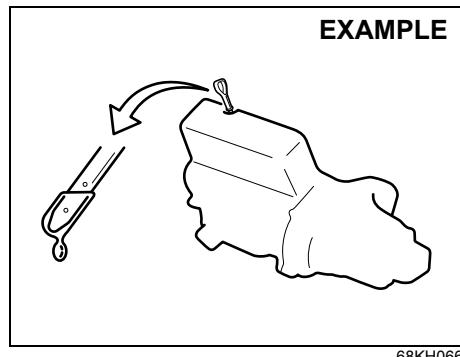
(1) Preferred

Be sure that the engine oil you use comes under the quality classification of SL, SM and SN. Select the appropriate oil viscosity according to the above chart.

## INSPECTION AND MAINTENANCE

**SAE 0W-20** (1) is the best choice for good fuel economy, and good starting in cold weather.

### Oil Level Check



It is important to keep the engine oil at the correct level for proper lubrication of your vehicle's engine. Check the oil level with the vehicle on a level surface. The oil level indication may be inaccurate if the vehicle is on a slope. The oil level should be checked either before starting the engine or at least 5 minutes after stopping the engine.

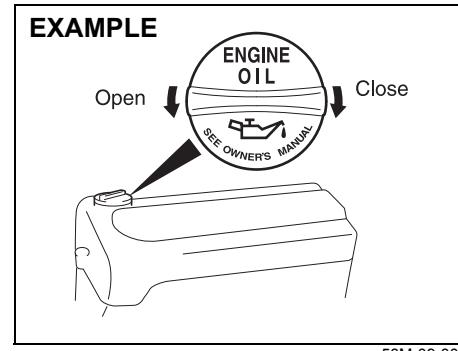
Pull out the oil dipstick, wipe oil off with a clean cloth, insert the dipstick all the way into the engine, then remove it again. The oil on the stick should be between the upper and lower limits shown on the stick. If the oil level indication is near the lower

limit, add enough oil to raise the level to the upper limit.

#### NOTICE

**Failure to check the oil level regularly could lead to serious engine trouble due to insufficient oil.**

### Refilling



Remove the oil filler cap and pour oil slowly through the filler hole to bring the oil level to the upper limit on the dipstick. Be careful not to overfill. Too much oil is almost as bad as too little oil. After refilling, start the engine and allow it to idle for about a minute. Stop the engine, wait about 5 minutes and check the oil level again.

### Changing Engine Oil and Filter

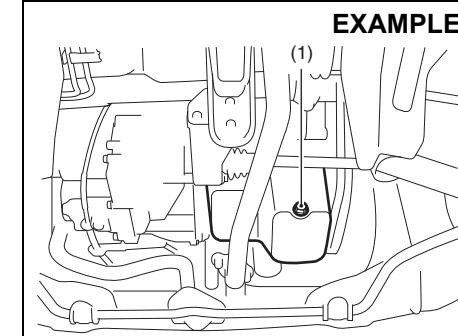
Drain the engine oil while the engine is still warm.

- 1) Remove the oil filler cap.
- 2) Place a drain pan under the drain plug.
- 3) Using a wrench, remove the drain plug and drain out the engine oil.

#### CAUTION

**The engine oil temperature may be high enough to burn your fingers when the drain plug is loosened. Wait until the drain plug is cool enough to touch with your bare hands.**

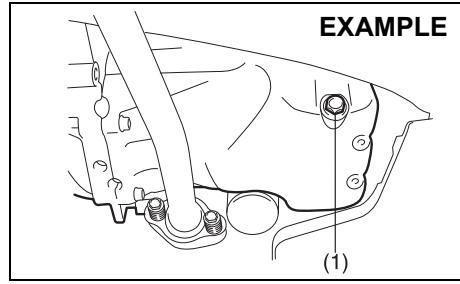
### ALTO



**Tightening torque for drain plug (1):  
49 Nm (4.9 kg-m, 36.0 lb-ft)**

## INSPECTION AND MAINTENANCE

### ALTO K10



Tightening torque for drain plug (1):  
35 Nm (3.6 kg-m, 25.8 lb-ft)

#### ⚠ WARNING

New and used oil can be hazardous. Children and pets may be harmed by swallowing new or used oil. Keep new and used oil and used oil filters away from children and pets.

Continuous contact with used engine oil may cause skin cancer laboratory animals. Brief contact with used oil may irritate skin.

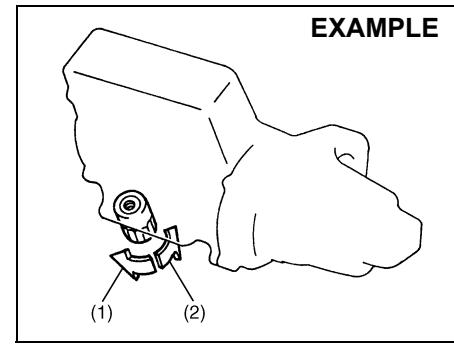
To minimize your exposure to used oil, wear a long-sleeve shirt and moistureproof gloves (such as dish-washing gloves) when changing oil. If oil contacts your skin, wash thoroughly with soap and water.

Launder any clothing or rags if wet with oil. Recycle or properly dispose of used oil and filters.

- Reinstall the drain plug and new gasket. Tighten the plug with a wrench to the specified torque.

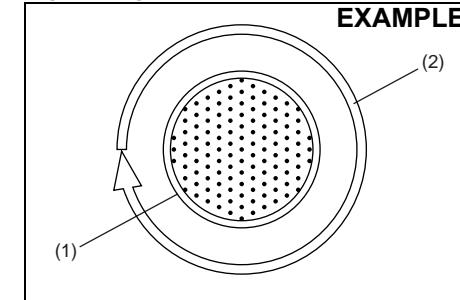
#### Replace the Oil Filter

- Using an oil filter wrench, turn the oil filter counterclockwise and remove it.
- Using a clean rag, wipe off the mounting surface on the engine where the new filter will be seated.
- Smear a little engine oil around the rubber gasket of the new oil filter.
- Screw on the new filter by hand until the filter gasket contacts the mounting surface.



(1) Loosen  
(2) Tighten

#### Tightening (viewed from filter top)



(1) Oil filter  
(2) 1 turn

#### NOTICE

To tighten the oil filter properly, it is important to accurately identify the position at which the filter gasket first contacts the mounting surface.

- Tighten the filter specified turn from the point of contact with the mounting surface (or to the specified torque) using an oil filter wrench.

**Tightening torque for oil filter**  
1 turn or 14 Nm (1.4 kg-m, 10.1 lb-ft)

#### NOTICE

To prevent oil leakage, make sure that the oil filter is tight, but do not over-tighten it.

## INSPECTION AND MAINTENANCE

### Refill with Oil and Check for Leaks

- 1) Pour oil through the filler hole and install the filler cap.  
For the approximate capacity of the oil, refer to the "Capacities" item in the "SPECIFICATIONS" section.
- 2) Start the engine and look carefully for leaks at the oil filter and drain plug. Run the engine at various speeds for at least 5 minutes.
- 3) Stop the engine and wait about 5 minutes. Check the oil level again and add oil if necessary. Check for leaks again.

#### NOTICE

- When replacing the oil filter, it is recommended that you use a genuine MARUTI SUZUKI replacement filter. If you use an aftermarket filter, make sure it is of equivalent quality and follow the manufacturer's instructions.
- Oil leaks from around the oil filter or drain plug indicate incorrect installation or gasket damage. If you find any leaks or are not sure that the filter has been properly tightened, have the vehicle inspected by your Maruti Suzuki authorised workshop.

### Engine Coolant

#### Selection of Coolant

To maintain optimum performance and durability of your engine, use MARUTI Genuine Coolant or equivalent.

This type of coolant is best for your cooling system as it:

- Helps maintain proper engine temperature.
- Gives proper protection against freezing and boiling.
- Gives proper protection against corrosion and rust.

Failure to use the proper coolant can damage your cooling system. Your Maruti Suzuki authorised workshop can help you select the proper coolant.

#### NOTICE

To avoid damaging your cooling system:

- Always use a high quality ethyleneglycol base non-silicate type coolant diluted with distilled water at the correct mixture concentration.
- Make sure that the proper mix is 30/70 coolant to distilled water and in no case higher than 70/30. Concentrations greater than 70/30 coolant to distilled water will cause overheating conditions.
- Do not use straight coolant nor plain water.
- Do not add extra inhibitors or additives. They may not be compatible with your cooling system.
- Do not mix different types of base coolants. Doing so may result in accelerated seal wear and/or the possibility of severe overheating and extensive engine damage.

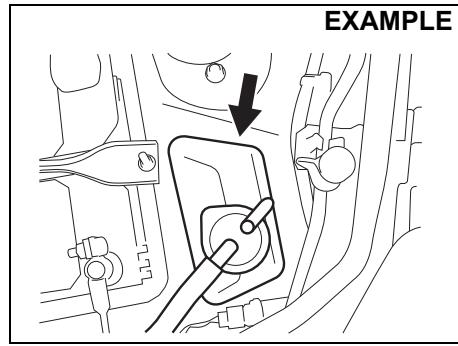
#### Coolant Level Check

Check the coolant level at the reservoir tank, not at the radiator. With the engine cool, the coolant level should be between the "FULL" and "LOW" marks.

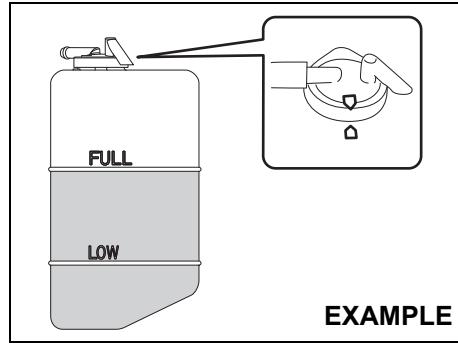
## INSPECTION AND MAINTENANCE

### Adding Coolant

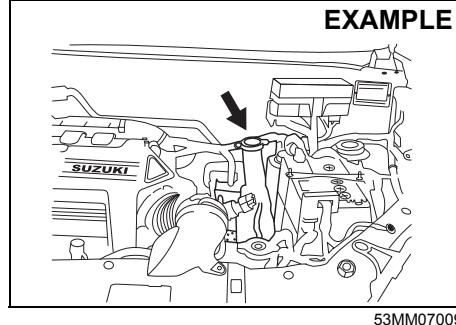
ALTO



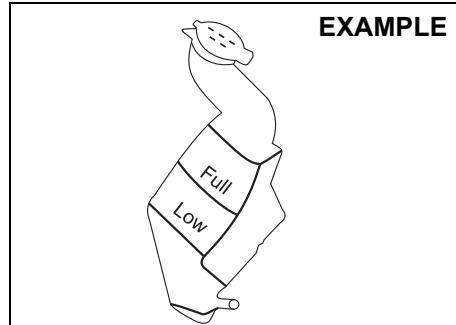
ALTO



ALTO K10



ALTO K10



If the coolant level is below the "LOW" mark, more coolant should be added. Remove the reservoir tank cap and add coolant until the reservoir tank level reaches the "FULL" mark. Never fill the reservoir tank above the "FULL" mark.

### ! WARNING

Engine coolant is harmful or fatal if swallowed or inhaled. Do not drink antifreeze or coolant solution. If swallowed, do not induce vomiting. Immediately contact a poison control center or a physician. Avoid inhaling mist or hot vapors; if inhaled, remove to fresh air. If coolant gets in eyes, flush eyes with water and seek medical attention. Wash thoroughly after handling. Solution can be poisonous to animals. Keep out of the reach of children and animals.

### NOTICE

- The mixture you use should contain 50% concentration of antifreeze.
- If the lowest ambient temperature in your area is expected to be  $-35^{\circ}\text{C}$  ( $-31^{\circ}\text{F}$ ) or below, use higher concentrations up to 60% following the instructions on the antifreeze container.

### NOTICE

When putting the cap on the reservoir tank, line up the mark on the cap and the mark on the tank. Failure to follow this can result in coolant leakage.

## INSPECTION AND MAINTENANCE

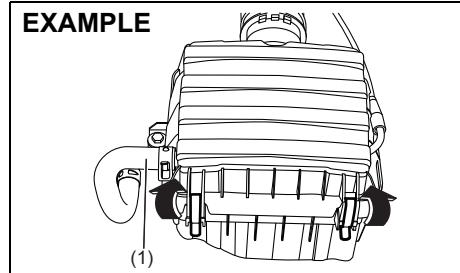
### Coolant Replacement

Since special procedures are required, we recommend you take your vehicle to your Maruti Suzuki authorised workshop for coolant replacement.

### Air Cleaner

#### ALTO

##### EXAMPLE



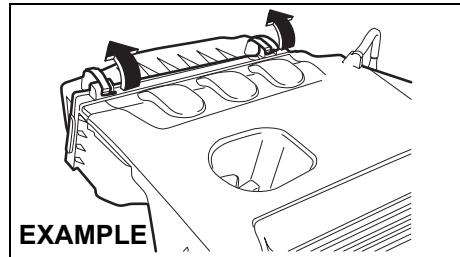
53MM07007

##### NOTE:

Remove hose (1) from air cleaner case before unclamping.

#### ALTO K10

##### EXAMPLE



53M-09-017

Unclamp/Unscrew the side clamps/screws, and remove the element from the air cleaner case. If it appears to be dirty, replace it with a new one.

### Spark Plugs

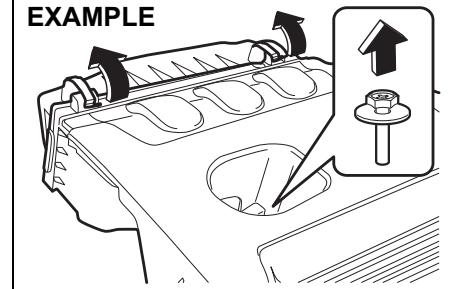
You should inspect spark plugs periodically for carbon deposits. When carbon accumulates on a spark plug, a strong spark may not be produced. Remove carbon deposits with a wire or pin and adjust the spark plug gap.

##### NOTE:

For ALTO K10: Unclamp the air filter bolt and then remove the air cleaner case.

#### ALTO K10

##### EXAMPLE



53M-09-019

To access the spark plugs:

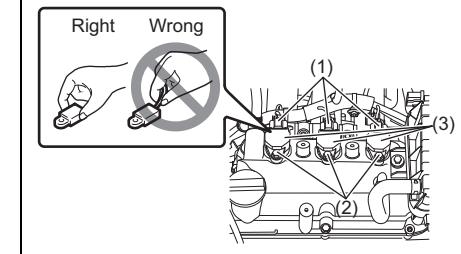
- 1) If necessary, disconnect the coupler (1) while pushing the release lever.
- 2) Remove the ignition coil bolts (2).

- 3) Pullout the ignition coil (3) and remove the spark plug.

##### NOTE:

When installation, make sure the wires, couplers, sealing rubber of top cover and washers, are correctly returned in place.

##### EXAMPLE



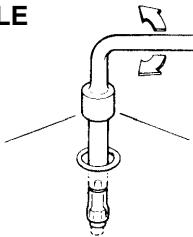
53MM07008

##### NOTICE

- When pulling the ignition coils out, do not pull on the cable. Pulling on the cable can damage it.
- When servicing the iridium/platinum spark plugs (slender center electrode type plugs), do not touch the center electrode, as it is easy to damage.

## INSPECTION AND MAINTENANCE

### EXAMPLE

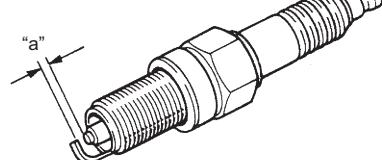


60G160S

### NOTICE

- When installing the spark plugs, screw them in with your fingers to avoid stripping the threads. Tighten with a torque wrench to 25 Nm (2.5 kg-m, 18.0 lb-ft). Do not allow contaminants to enter the engine through the spark plug holes when the plugs are removed.
- Never use spark plugs with the wrong thread size.

### EXAMPLE



53MM07010

Spark plug gap "a"

**ALTO**  
NGK DCPR7E, BOSCH YR7DC  
0.8 - 0.9 mm (0.031 - 0.035 in.)

**ALTO K10**  
NGK KR6A-10:  
0.95 - 1.05 mm (0.037 - 0.041 in.)

### NOTICE

When replacing spark plugs, you should use the brand and type specified for your vehicle. For the specified spark plugs, refer to the "SPECIFICATIONS" section at the end of this book.

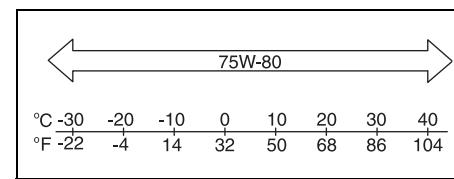
## Gear Oil

### Manual Transaxle Oil

When adding gear oil, use gear oil with the appropriate viscosity and grade.

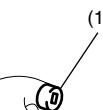
We highly recommend you use: "MARUTI Genuine GEAR OIL 75W-80" for manual transaxle gear oil or auto gear shift oil.

### Manual transaxle oil (API GL-4)



### Gear Oil Level Check

### EXAMPLE



68KH073

(1) Oil filler and level plug

To check the gear oil level, use the following procedure:

- Park the vehicle on a level surface with the parking brake applied. Then, stop the engine.
- Remove the oil filler plug (1) or (2).
- Check the inside of the hole with your finger. If the oil level comes up to the bottom of the plug hole, the oil level is correct. If so, reinstall the plug.
- If the oil level is low, add gear oil through the oil filler plug hole (1) or (2) until the oil level reaches the bottom of the filler hole, then reinstall the plug.

**Tightening torque (1):**  
**21 Nm (2.1 kg-m, 15.5 lb-ft)**

## INSPECTION AND MAINTENANCE

### CAUTION

After driving the vehicle, the transaxle oil temperature may be high enough to burn your skin. Wait until the oil filler plug is cool enough to touch with your bare hands before inspecting transaxle oil.

### NOTICE

When tightening the plug, apply the following sealing compound or equivalent to the plug threads to prevent oil leakage.

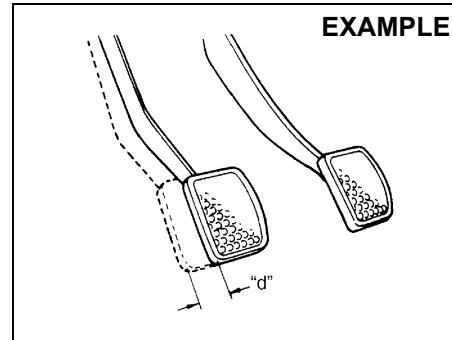
Manual transaxle sealant:  
MARUTI SUZUKI Bond No. "1216E"  
or "1217G"

### Gear Oil Change

Since special procedures, materials and tools are required, it is recommended that you trust this job to your Maruti Suzuki authorised workshop.

### Clutch Pedal

#### Cable control clutch (For Manual Transaxle Model)



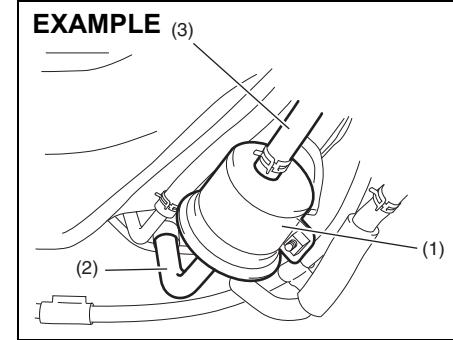
54G274

Clutch pedal play "d":  
10 - 15 mm (0.4 - 0.6 in.)

Measure the clutch pedal play by moving the clutch pedal with your hand and measuring the distance it moves until you feel slight resistance. The play in the clutch pedal should be between the specified values. If the play is more or less than the above, or clutch dragging is felt with the pedal fully depressed, have the clutch inspected by your Maruti Suzuki authorised workshop.

### Fuel Filter

The fuel filter is located on the way of the fuel hose line under the vehicle body.



53MM07011

- (1) Fuel filter
- (2) Fuel inlet hose
- (3) Fuel outlet hose

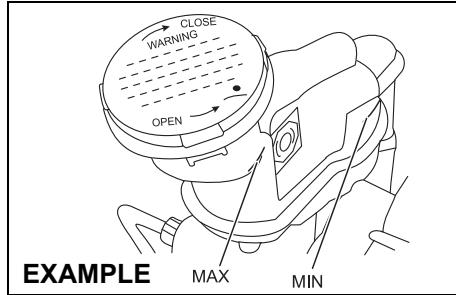
### Replace the Fuel Filter

Since special procedures are required, we recommend you take your vehicle to your Maruti Suzuki authorised workshop for fuel filter replacement.

## INSPECTION AND MAINTENANCE

### Brakes

#### Brake Fluid



Check the brake fluid level by looking at the reservoir in the engine compartment. Check that the fluid level is between the "MAX" and "MIN" lines. If the brake fluid level is near the "MIN" line, fill it up to the "MAX" line with MARUTI GENUINE BRAKE FLUID (MGBF).

#### ⚠ WARNING

Failure to follow the guidelines below can result in personal injury or serious damage to the brake system.

- If the brake fluid in the reservoir drops below a certain level, the brake warning light on the instrument panel will come on (the engine must be running with the parking brake fully disengaged). Should the light come on, immediately ask your Maruti Suzuki authorised workshop to inspect the brake system.
- A rapid fluid loss indicates a leak in the brake system which should be inspected by your Maruti Suzuki authorised workshop immediately.
- Do not use any fluid other than MARUTI GENUINE BRAKE FLUID (MGBF) brake fluid. Do not use reclaimed fluid or fluid that has been stored in old or open containers. It is essential that foreign particles and other liquids are kept out of the brake fluid reservoir.

#### ⚠ WARNING

Brake fluid is harmful or fatal if swallowed, and harmful if it comes in contact with skin or eyes. If swallowed, do not induce vomiting. Immediately contact a poison control center or a physician. If brake fluid gets in eyes, flush eyes with water and seek medical attention. Wash thoroughly after handling. Solution can be poisonous to animals. Keep out of the reach of children and animals.

#### NOTE:

*With disc brakes, the fluid level can be expected to gradually fall as the brake pads wear.*

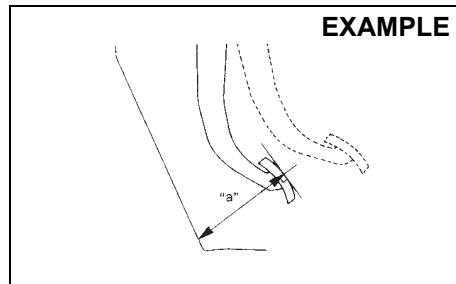
#### Brake Pedal

Check if the brake pedal stops at the regular height without "spongy" feeling when you depress it. If not, have the brake system inspected by your Maruti Suzuki authorised workshop. If you doubt the brake pedal for the regular height, check it as follows:

#### ⚠ CAUTION

Brake fluid can harm your eyes and damage painted surfaces. Use caution when refilling the reservoir.

## INSPECTION AND MAINTENANCE



Pedal to floor carpet minimum distance "a":

ALTO : 72 mm (2.8 in.)  
ALTO K10: 79 mm (3.1 in.)

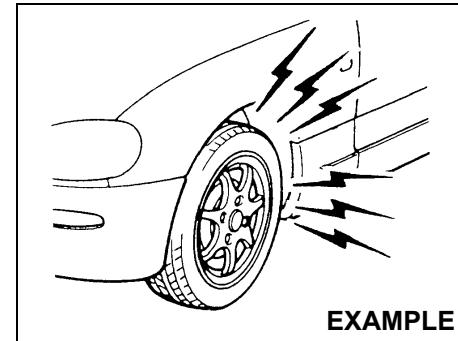
With the engine running, measure the distance between the brake pedal and floor carpet when the pedal is depressed with approximately 30 kg (66 lbs) of force. The minimum distance required is as specified. Since your vehicle's brake system is self-adjusting, there is no need for pedal adjustment.

If the pedal to floor carpet distance as measured above is less than the minimum distance required, have your vehicle inspected by your Maruti Suzuki authorised workshop.

**NOTE:**

When measuring the distance between the brake pedal and floor wall, be sure not to include any accessory floor mat or rubber

mat on the floor carpet in your measurement.



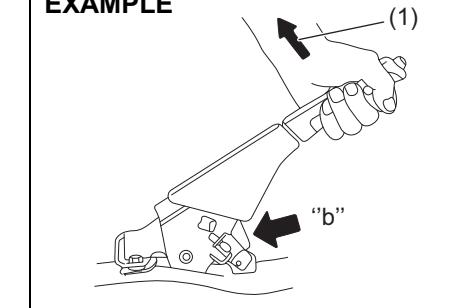
**WARNING**

If you experience any of the following problems with your vehicle's brake system, have the vehicle inspected immediately by your Maruti Suzuki authorised workshop.

- Poor braking performance
- Uneven braking (brakes not working uniformly on all wheels).
- Excessive pedal travel
- Brake dragging
- Excessive noise
- Pedal pulsation (pedal pulsates when depressed).

### Parking Brake

**EXAMPLE**



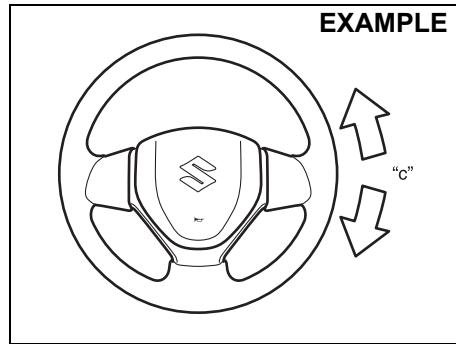
Ratchet tooth specification "b":

4th – 9th  
Lever pull force (1):  
200 N (20 kg, 45 lbs)

Check the parking brake for proper adjustment by counting the number of clicks made by the ratchet teeth as you slowly pull up on the parking brake lever to the point of full engagement. The parking brake lever should stop between the specified ratchet teeth and the rear wheels should be securely locked. If the parking brake is not properly adjusted or the brakes drag after the lever has been fully released, have the parking brake inspected and/or adjusted by your Maruti Suzuki authorised workshop.

## INSPECTION AND MAINTENANCE

### Steering



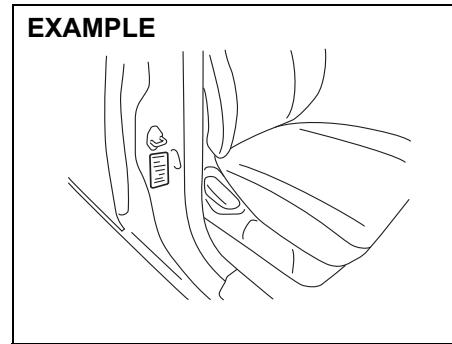
53M-09-032

**Steering wheel play "c":  
0 – 30 mm (0.0 – 1.2 in.)**

Check the play of the steering wheel by gently turning it from left to right and measuring the distance that it moves before you feel slight resistance. The play should be between the specified values.

Check that the steering wheel turns easily and smoothly without rattling by turning it all the way to the right and to the left while driving very slowly in an open area. If the amount of free play is outside the specification or you find anything else to be wrong, an inspection must be performed by your Maruti Suzuki authorised workshop.

### Tires



53M-09-033

The front and rear tire pressure specifications for your vehicle are listed on the Tire Information Label. Both the front and rear tires should have the specified tire pressure.

### Tire Inspection

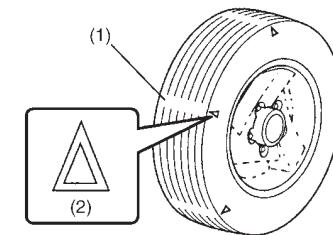
Inspect your vehicle's tires at least once a month by performing the following checks:

- 1) Measure the air pressure with a tire gauge. Adjust the pressure if necessary. Remember to check the spare tire, too.

#### ! WARNING

- Air pressures should be checked when the tires are cold or you may get inaccurate readings.
- Check the inflation pressure from time to time while inflating the tire gradually, until the specified pressure is obtained.
- Never underinflate or overinflate the tires. Underinflation can cause unusual handling characteristics or can cause the rim to slip on the tire bead, resulting in an accident or damage to the tire or rim. Overinflation can cause the tire to burst, resulting in personal injury. Overinflation can also cause unusual handling characteristics which may result in an accident.

### EXAMPLE



53M-09-034

7-20

53MH0-74E

## INSPECTION AND MAINTENANCE

- (1) Tread wear indicator
- (2) Indicator location mark
- 2) Check that the depth of the tread groove is more than 1.6 mm (0.06 in.). To help you check this, the tires have molded-in tread wear indicators in the grooves. When the indicators appear on the tread surface, the remaining depth of the tread is 1.6 mm (0.06 in.) or less and the tire should be replaced.
- 3) Check for abnormal wear, cracks and damage. Any tires with cracks or other damage should be replaced. If any tires show abnormal wear, have them inspected by your Maruti Suzuki authorised workshop.

### CAUTION

Hitting curbs and running over rocks can damage tires and affect wheel alignment. Be sure to have tires and wheel alignment checked periodically by your Maruti Suzuki authorised workshop.

- 4) Check for loose wheel nuts.
- 5) Check that there are no nails, stones or other objects sticking into the tires.

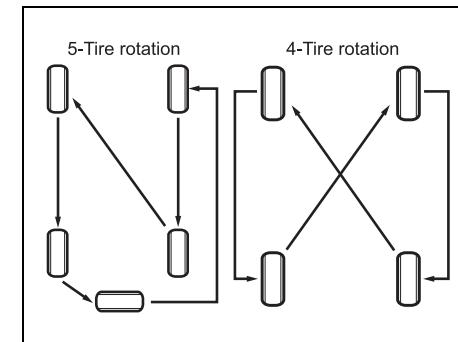
### WARNING

- Your MARUTI SUZUKI is equipped with tires which are all the same type and size. This is important to ensure proper steering and handling of the vehicle. Never mix tires of different size or type on the four wheels of your vehicle. The size and type of tires used should be only those approved by MARUTI SUZUKI as standard or optional equipment for your vehicle.
- Replacing the wheels and tires equipped on your vehicle with certain combinations of aftermarket wheels and tires can significantly change the steering and handling characteristics of your vehicle.
- Therefore, use only those wheel and tire combinations approved by MARUTI SUZUKI as standard or optional equipment for your vehicle.

### NOTICE

Replacing the original tires with tires of a different size may result in false speedometer or odometer readings. Check with your SUZUKI dealer before purchasing replacement tires that differ in size from the original tires.

### Tire Rotation



53M-09-035

To avoid uneven wear of your tires and to prolong their life, rotate the tires as illustrated. Tires should be rotated as mentioned in periodic maintenance schedule. After rotation, adjust front and rear tire pressures to the specification listed on your vehicle's Tire Information Label.

### Wheel Balancing

If the vehicle vibrates abnormally on smooth road, have the wheel balanced at Maruti Suzuki authorised workshop.

### Wheel Alignment

In case of abnormal tire wear or pulling towards one side, have the wheel aligned at Maruti Suzuki authorised workshop.

## INSPECTION AND MAINTENANCE

### Tubeless Tires (If equipped)

The vehicle is equipped with Tubeless Tires. In tubeless tire, a thin layer of butyl rubber is used for lining the inside of the tubeless tire. This layer is to prevent air loss and fulfilling the purpose of tube. The air pressure is maintained by the sealing between tire bead and wheel rim. Tubeless tires are having advantage of slow air loss and preventing sudden deflation while driving.

#### Care and maintenance tips for tubeless tires

- 1) Always maintain recommended inflation pressure. Driving continuously at low inflation pressure can lead to tire damage.
- 2) In case any leakage is found, check for any nail penetration/valve core damage or rim bent. Damaged wheel must not be used.
- 3) In case tire has run at low pressure, it must be inspected for any defect.
- 4) Whenever new tire is fitted, replace the valve.
- 5) If continuous high speed driving is required, increase tires pressure by 5 psi over recommended inflation pressure.
- 6) Never run the tire beyond TWI (Tread Wear Indicator). The tire is recommended to be replaced when the remaining tread has worn to this point. The indicators are spaced across the

tread around the tire marked by a triangular symbol (TWI).

- 7) Always prefer tubeless tire mounting machine. In case of manual mounting-tire/wheel rim damage may occur.
- 8) In case of any problem, please get in touch with Maruti Suzuki authorised workshop.

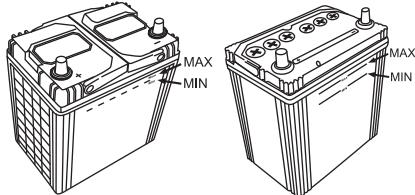
### Battery

#### ! WARNING

- Batteries produce flammable hydrogen gas. Keep flames and sparks away from the battery or an explosion may occur. Never smoke when working in the vicinity of the battery.
- When checking or servicing the battery, disconnect the negative cable. Be careful not to cause a short circuit by allowing metal objects to contact the battery posts and the vehicle at the same time.
- To avoid harm to yourself or damage to your vehicle or battery, follow the jump starting instructions in the "EMERGENCY SERVICE" section of this manual if it is necessary to jump start your vehicle.
- Diluted sulfuric acid spilled from battery can cause blindness or severe burns. Use proper eye protection and gloves. Flush eyes or body with ample water and get medical care immediately if suffered.
- Keep batteries out of the reach of children.

## INSPECTION AND MAINTENANCE

### EXAMPLE



53m-09-036

The level of the battery solution must be kept between the "MAX" and the "MIN" level lines at all times. You should periodically check the battery, battery terminals, and battery hold-down bracket for corrosion. Remove corrosion using a stiff brush and ammonia mixed with water, or baking soda mixed with water. After removing corrosion, rinse with clean water. If your vehicle is not going to be driven for a month or longer, disconnect the cable from the negative terminal of the battery to help prevent discharge.

### WARNING

If the battery is used with battery level being less than the lower level line "MIN", it may cause reduced battery life, an exothermic heat, or an explosion by hydrogen gas occurring from the battery. Do not use the battery with battery level being less than the lower level line "MIN".

### NOTICE

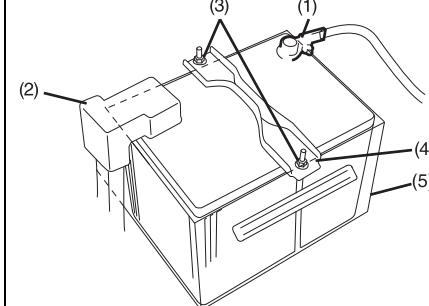
If the battery liquid is added more than the upper level line "MAX", liquid may leak by vibrations during driving or liquid may spray out in some case depending on the condition of battery charging. These may cause damage to the parts near the battery. If the battery liquid over-spills, immediately wash away with water. Do not add the battery liquid more than the upper level line "MAX".

### NOTE:

*The battery liquid is consumed when the battery is used. If the level is found to be less than the center of upper level "MAX" and lower level "MIN", add distilled water till it reaches the upper level line "MAX".*

### Replacement of the battery

### EXAMPLE



53M-09-037

To remove the battery:

- 1) Disconnect the negative cable (1).
- 2) Disconnect the positive cable (2).
- 3) Remove the retainer bolts (3) and remove the retainer (4).
- 4) Remove the battery along with cover assembly (5) (if equipped).

### NOTICE

- Ensure that battery should not be removed without cover assembly.
- When the battery is reassembled into the vehicle, kindly ensure that battery cover is also installed along with battery.

## INSPECTION AND MAINTENANCE

To install the battery:

- 1) Install the battery in the reverse order of removal.
- 2) Tighten the retainer nuts and battery cables securely.

**NOTE:**

*When the battery is disconnected, some of the vehicle's function will be initialized and/or deactivated.*

*These function are required to reset after the battery is reconnected.*

### Fuses

Your vehicle has three types of fuses, as described below:

#### Main fuse

The main fuse takes current directly from the battery.

#### Primary fuses

These fuses are between the main fuse and individual fuses, and are for electrical load groups.

#### Individual fuses

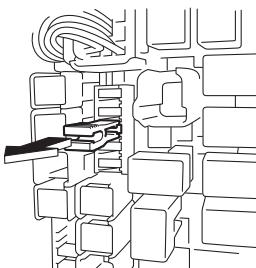
These fuses are for individual electrical circuits. To remove a fuse, use the fuse puller provided in the fuse box.

**NOTE:**

- “Blank” indicates that fuse is not applicable in the variant, even though name of fuse might be available on cover of fuse box of your vehicle.

- Some fuse may not be applicable to your vehicle according to the variant of vehicle, even though it is not mentioned as blank.

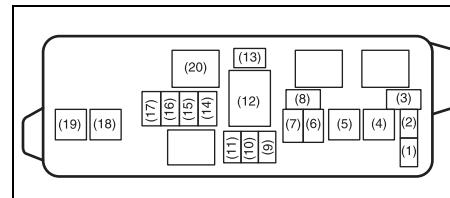
### EXAMPLE



53M-09-038

### Fuses in the Engine Compartment

#### ALTO



53MM07014

### MAIN FUSE / PRIMARY FUSE

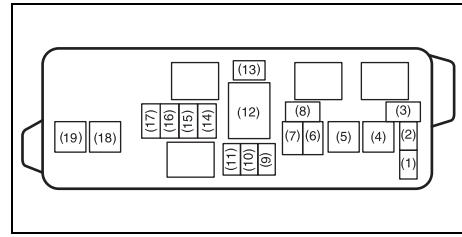
(1)	25A	Spare
(2)	20A	Spare

(3)	25A	ABS solenoid
(4)	50A	Ignition switch
(5)	50A	Battery1
(6)	15A	Headlight (left)
(7)	15A	Headlight (right)
(8)	7.5A	CNG fuse
(9)	15A	Spare
(10)	30A	Spare
(11)	10A	Spare
(12)	80A	Main fuse
(13)	7.5A	Spare
(14)	30A	Radiator fan
(15)	15A	Fuel injection (Petrol)
(16)	10A	A/c compressor
(17)	7.5A	CNG valve
(18)	40A	ABS motor
(19)	30A	Battery 2

## INSPECTION AND MAINTENANCE

### Fuses in the Engine Compartment

ALTO K10



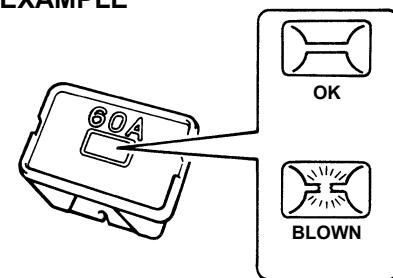
53MM07013

MAIN FUSE / PRIMARY FUSE		
(1)	7.5A	Spare
(2)	20A	Spare
(3)	25A	ABS Solenoid
(4)	50A	Ignition switch fuse
(5)	50A	Battery1
(6)	15A	Headlight (left) fuse
(7)	15A	Headlight (right) fuse
(8)	7.5A	CNG (if equipped)
	10A	Front fog light (if equipped)
(9)	15A	Spare
(10)	30A	Spare
(11)	10A	Spare

(12)	80A	Main fuse
(13)	—	Blank
(14)	30A	Radiator fan fuse
(15)	15A	Fuel injection (Petrol)
(16)	10A	Air compressor fuse
(17)	30A	Battery 2
(18)	40A	Auto Gear Shift pump (if equipped)
(19)	40A	ABS motor

The main fuse, primary fuses and some of the individual fuses are located in the engine compartment. If the main fuse blows, no electrical component will function. If a primary fuse blows, no electrical component in the corresponding load group will function. When replacing the main fuse, a primary fuse or an individual fuse, use a Maruti Genuine replacement. To remove a fuse, use the fuse puller provided in the fuse box. The amperage of each fuse is shown in side the fuse box cover.

### EXAMPLE



60G111

### ! WARNING

If the main fuse or a primary fuse blows, be sure to have your vehicle inspected by a Maruti Suzuki authorised workshop. Always use a genuine MARUTI replacement. Never use a substitute such as a wire even for a temporary repair, or extensive electrical damage and a fire can result.

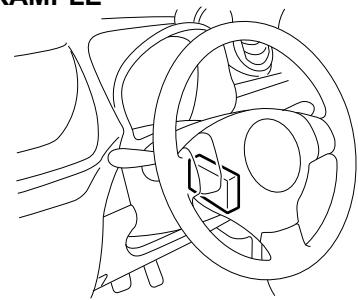
#### NOTE:

Make sure that the fuse box always carries spare fuses and fuse puller.

## INSPECTION AND MAINTENANCE

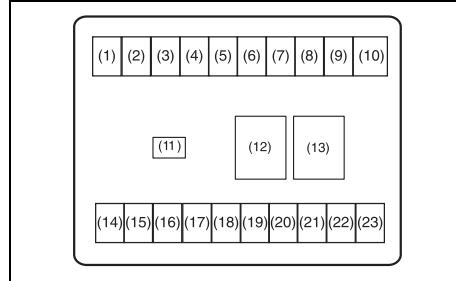
### Fuses under the Dash Board

#### EXAMPLE



68KH078

#### ALTO



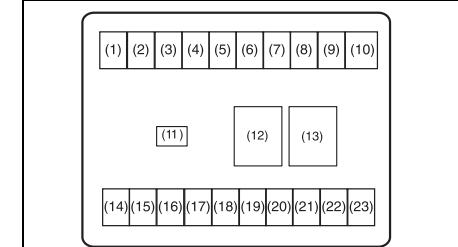
53M-09-043

#### SECONDARY FUSE

(1)	10A	Ignition-2 signal
(2)	15A	Front wiper
(3)	—	Blank

(4)	—	Blank
(5)	30A	Blower fan motor
(6)	10A	Stop light
(7)	10A	Tail light
(8)	15A	Radio/Audio
(9)	20A	Door lock
(10)	—	Blank
(11)	15A	Accessory
(12)	—	Blank
(13)	30A	Power window
(14)	15A	Ignition coil
(15)	10A	Back up light
(16)	10A	Meter
(17)	10A	Navigation
(18)	—	Blank
(19)	10A	Air bag
(20)	10A	ABS Controller
(21)	30A	Power steering
(22)	30A	Starting motor
(23)	15A	Horn/Hazard warning light

#### ALTO K10



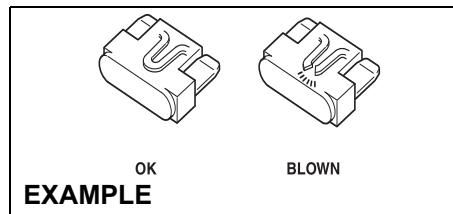
53M-09-044

#### SECONDARY FUSE

(1)	10A	Ignition-2 signal
(2)	15A	Front wiper
(3)	7.5A	CNG valve (if equipped)/ Auto Gear Shift (if equipped)
(4)	7.5A	Auto Gear Shift-2 (if equipped)
(5)	30A	Blower fan
(6)	10A	Stop light
(7)	10A	Tail light
(8)	15A	Radio
(9)	20A	Door lock
(10)	—	Blank
(11)	15A	Accessory
(12)	—	Blank
(13)	30A	Power window

## INSPECTION AND MAINTENANCE

(14)	15A	Ignition coil
(15)	10A	Back up light
(16)	10A	Meter
(17)	-	Blank
(18)	7.5A	Ignition-1 signal
(19)	10A	Air bag
(20)	10A	ABS controller
(21)	30A	Power steering
(22)	30A	Starting motor
(23)	15A	Horn/Hazard warning light



53M-09-045

### ⚠ WARNING

Always be sure to replace a blown fuse with a fuse of the correct amperage. Never use a substitute such as aluminum foil or wire to replace a blown fuse. If you replace a fuse and the new one blows in a short period of time, you may have a major electrical problem. Have your vehicle inspected immediately by your Maruti Suzuki authorised workshop.

## Bulb Replacement

### ⚠ CAUTION

- Light bulbs can be hot enough to burn your finger right after being turned off. This is true especially for halogen headlight bulbs. Replace the bulbs after they become cool enough.
- The headlight bulbs are filled with pressurized halogen gas. They can burst and injure you if they are hit or dropped. Handle them carefully.

### NOTICE

The oils from your skin may cause a halogen bulb to overheat and burst when the lights are on. Grasp a new bulb with a clean cloth.

### NOTICE

- Frequent replacement of a bulb indicates the need for an inspection of the electrical system. This should be carried out by your Maruti Suzuki authorised workshop.
- During bulb replacement always use same bulb number as used in vehicle is imprinted on the said bulb/unit and/or mentioned in SPECIFICATIONS.

## INSPECTION AND MAINTENANCE

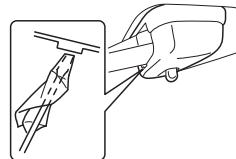
### NOTE:

Mist may form on the lenses of exterior lights (Headlight, Rear combination light etc.) during or after driving in the rain or after car washing. This is a natural phenomenon which occurs due to temperature difference between lamp inside and outside. Temporary mist on the lens is not a malfunction and will not cause any discomfort during vehicle driving.

The mist would get cleared when the environmental condition change to sunny or when headlamp is kept on. However if there is water leakage inside the lamp, contact your Maruti Suzuki authorised workshop.

### Interior Light

#### EXAMPLE

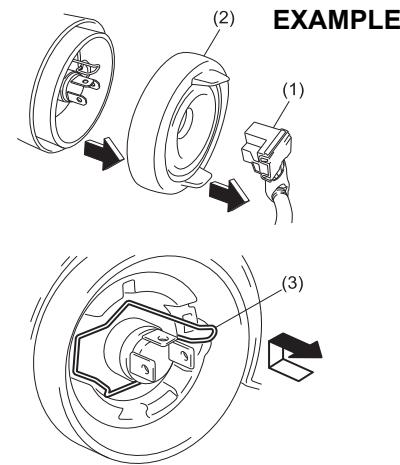


53M-09-046

Pull down the lens by using a flat blade screwdriver covered with a soft cloth as shown. To install it, simply push it back in. The bulb can be removed by simply pulling it out. When replacing the bulb, make sure that the contact springs are holding the bulb securely.

### Headlight

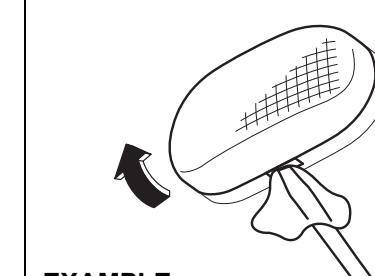
#### EXAMPLE



53M-09-049

Disconnect the coupler (1). Remove the sealing rubber (2). Push the retaining spring (3) forward and unhook it. Then remove the bulb. Install a new bulb in the reverse order.

### Side Turn Signal Light



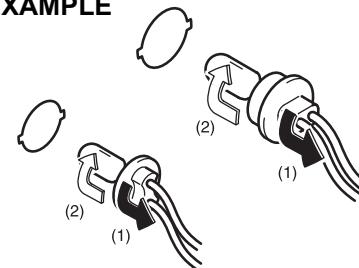
53M-09-050

Pull down the lens by using a flat blade screwdriver covered with a soft cloth as shown. The bulb can be removed by simply pulling it out. Then remove the bulb. Install a new bulb in the reverse order.

### Other General Lights

#### Bulb holder

#### EXAMPLE



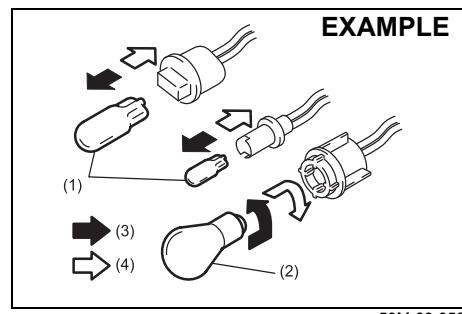
53M-09-051

## INSPECTION AND MAINTENANCE

- (1) Removal
- (2) Installation

To remove a bulb holder from a light housing, turn the holder counterclockwise and pull it out. To install the holder, push the holder in and turn it clockwise.

### Bulb



- (3) Removal
- (4) Installation

There are two types of bulb, "Full glass type" (1) and "Glass/metal type" (2).

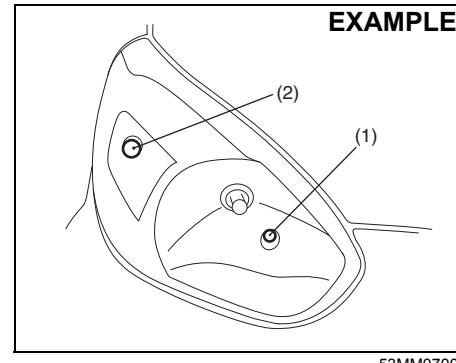
To remove and install a full glass type bulb (1), simply pull out or push in the bulb.

To remove a glass metal type bulb (2) from a bulb holder, push in the bulb and turn it counterclockwise. To install a new bulb, push it in and turn it clockwise.

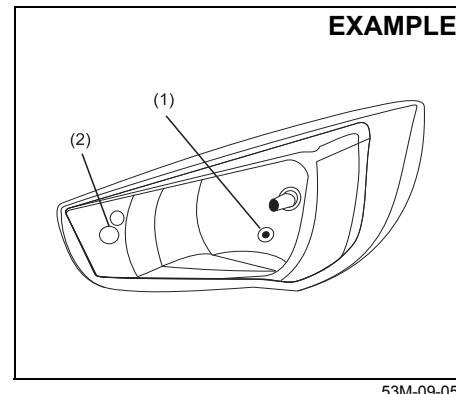
You can access the individual bulb or bulb holders as follows.

### Front turn signal light (1) Front position light (2)

ALTO

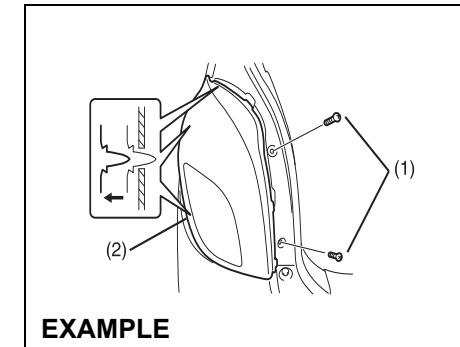


ALTO K10

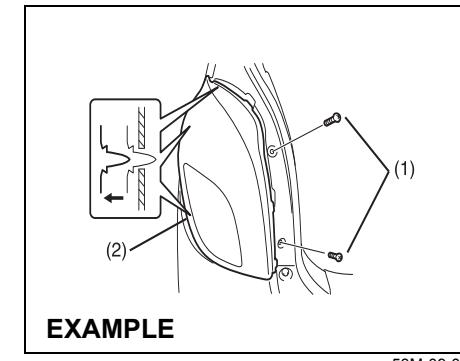


### Rear combination light

ALTO



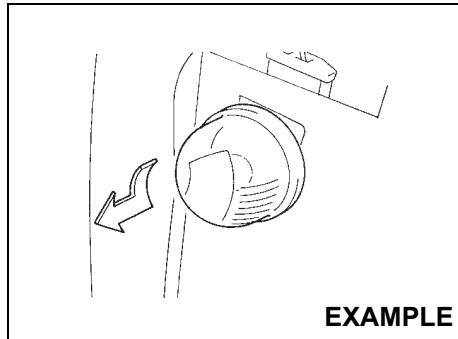
ALTO K10



Remove the screw (1). Remove the combination light (2) by pulling it outside.

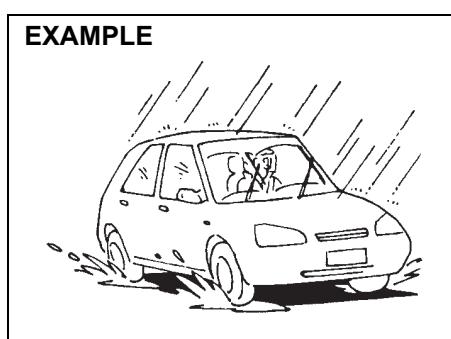
## INSPECTION AND MAINTENANCE

### License plate light



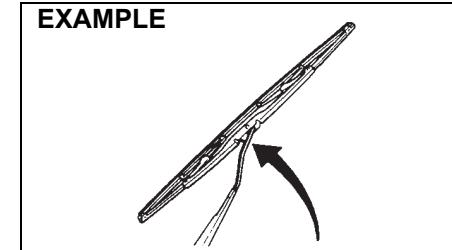
EXAMPLE  
53M-09-057

### Wiper Blades



EXAMPLE  
53M-09-059

### For windshield wipers:



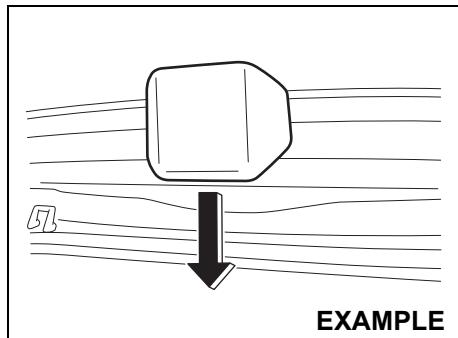
53M-09-060

- 1) Hold the wiper arm away from the window

#### NOTE:

*When raising both of the front wiper arms, pull the driver's side wiper arm up first. When returning the wiper arms, lower the passenger's side wiper arm first. Otherwise, the wiper arms may interfere with each other.*

### High-mount stop light



EXAMPLE  
53M-09-058

If the wiper blades become brittle or damaged, or make streaks when wiping, replace the wiper blades.

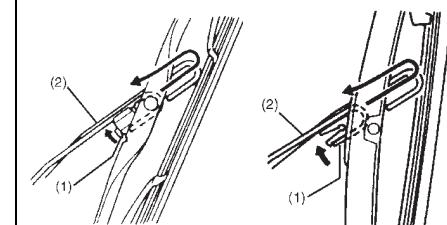
To install new wiper blades, follow the procedures below.

#### NOTICE

**To avoid scratching or breaking the window, do not let the wiper arm strike the window while replacing the wiper blade.**

**NOTE:**  
*Some wiper blades may be different from the ones described here depending on vehicle specifications. If so, consult your Maruti Suzuki authorised workshop for proper replacement method.*

EXAMPLE

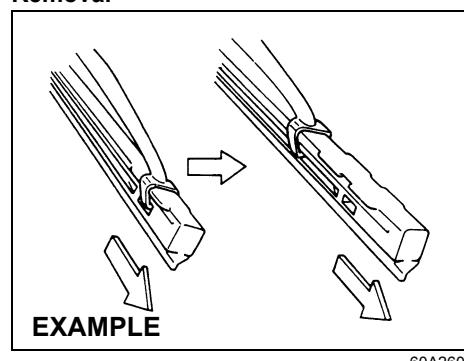


53M-09-061

## INSPECTION AND MAINTENANCE

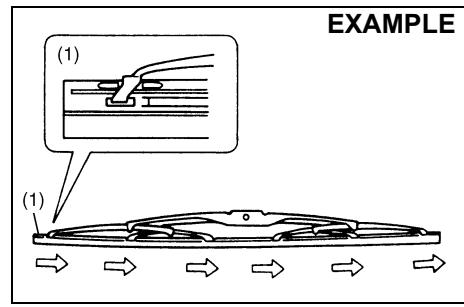
- 2) Squeeze lock (1) towards wiper arm (2) and remove the wiper frame from the arm as shown.
- 3) Unlock the lock end of the wiper blade and slide the blade out as shown.

### Removal



60A260

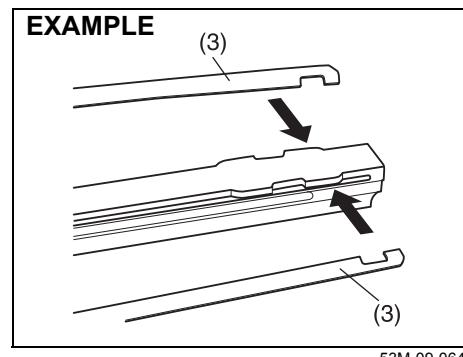
### Installation



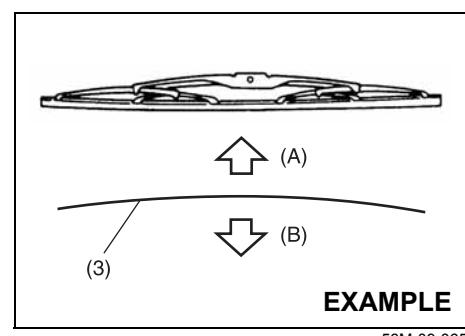
54G132

(1) Locked end

- 4) If the new blade is provided without the two metal retainers, move them from the old blade to the new one.



53M-09-064



53M-09-065

(A) Up  
(B) Down

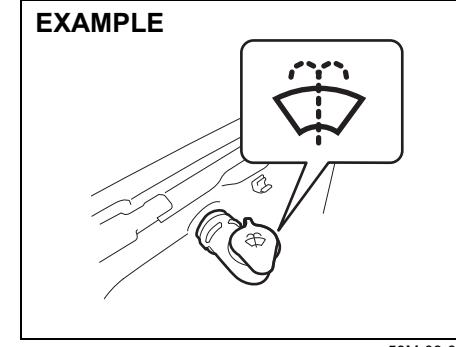
### NOTE:

When you install the metal retainers (3), make sure the direction of metal retainers as shown in the above illustrations.

- 5) Install the new blade in the reverse order of removal, with the locked end positioned toward the wiper arm. Make sure the blade is properly retained by all the hooks. Lock the blade end into place.
- 6) Reinstall wiper frame to arm, making sure that the lock lever is snapped securely into the arm.

## Windshield Washer Fluid

### Front



53M-09-066

Check that there is washer fluid in the tank. Refill it if necessary. Use a good quality windshield washer fluid, diluted with water as necessary.

## INSPECTION AND MAINTENANCE

### ⚠ WARNING

Do not use “anti-freeze” solution in the windshield washer reservoir. This can severely impair visibility when sprayed on the windshield, and also damage your vehicle’s paint.

### NOTICE

Damage may result if the washer motor is operated with no fluid in the washer tank.

## Air Conditioning System

If you do not use the air conditioner for a long period, such as during winter, it may not give the best performance when you start using it again. To help maintain optimum performance and durability of your air conditioner, it needs to be run periodically. Operate the air conditioner at least once a month for one minute with the engine idling. This circulates the refrigerant and oil and helps protect the internal components.

7-32

53MH0-74E



## **EMERGENCY SERVICE**

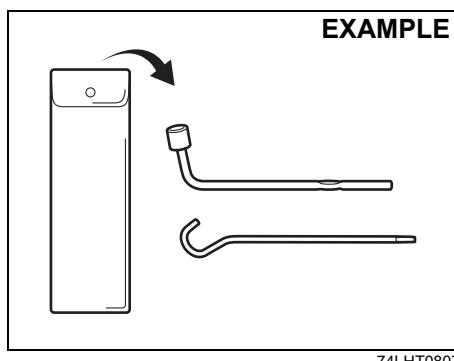
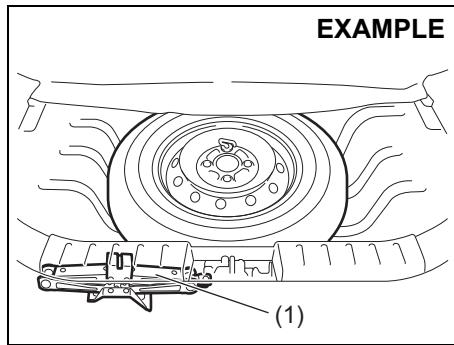
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### **EMERGENCY SERVICE**

Tire Changing Tool .....	8-1
Jacking Instructions .....	8-1
Changing Wheels .....	8-4
Jump Starting Instructions .....	8-5
Towing .....	8-6
If the Starter Does Not Operate .....	8-7
If the Engine is Flooded .....	8-7
If the Engine Overheats .....	8-7
Warning Triangle .....	8-8

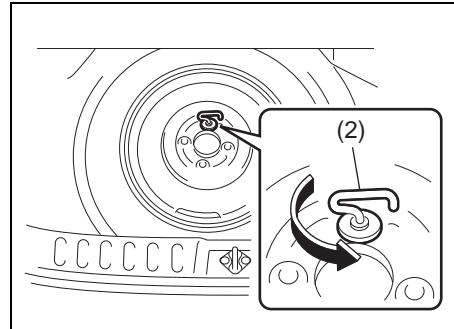
## EMERGENCY SERVICE

### Tire Changing Tool



The jack (1) is stowed below the luggage compartment board as shown in the above illustration.

The jack handle and wheel brace are stowed in the storage bag.



To remove the spare tire, turn its bolt (2) counterclockwise and remove it.

To remove the jack, remove the spare tire and turn the jacks shaft counterclockwise and pull the jack out of the storage bracket. To stow the jack, place it in the storage bracket and turn the shaft clockwise until the jack is securely held in place.

#### ! WARNING

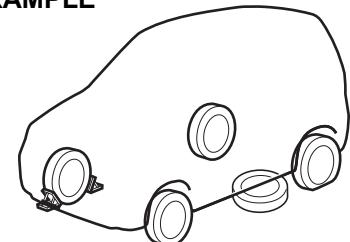
After using the tire changing tools, be sure to stow them securely or they can cause injury if an accident occurs.

#### ! CAUTION

The jack should be used only to change wheels. It is important to read the jacking instructions in this section before attempting to use the jack.

### Jacking Instructions

#### EXAMPLE



53M-10-004

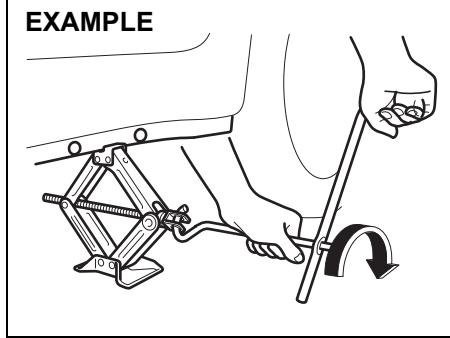
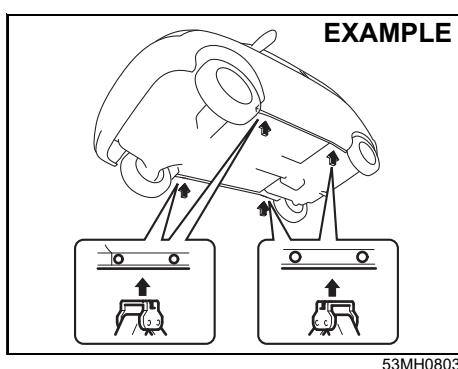
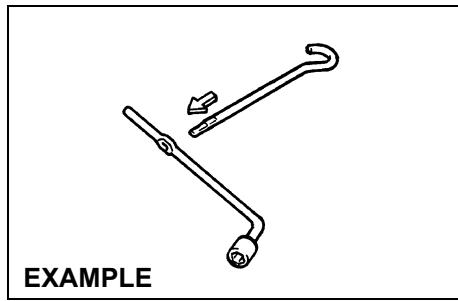
- 1) Place the vehicle on level, hard ground.
- 2) Set the parking brake firmly and shift into "R" (Reverse) if your vehicle has a manual transaxle.

#### ! WARNING

- Be sure to shift into "R" (Reverse) when you jack up the vehicle.
- Never jack up the vehicle with the transaxle in "N" (Neutral). Otherwise, unstable jack may cause an accident.

## EMERGENCY SERVICE

- 3) Turn on the hazard warning flasher if your vehicle is near traffic.
- 4) Block the front and rear of the wheel diagonally opposite of the wheel being lifted.
- 5) Place the spare wheel near the wheel being lifted as shown in the illustration in case that the jack slips.



- 6) Position the jack vertically and raise the jack by turning the jack handle clockwise until the jack head groove fits around the jacking bar beneath the vehicle body. See illustrations.
- 7) Continue to raise the jack slowly and smoothly until the tire clears the ground. Do not raise the vehicle more than necessary.

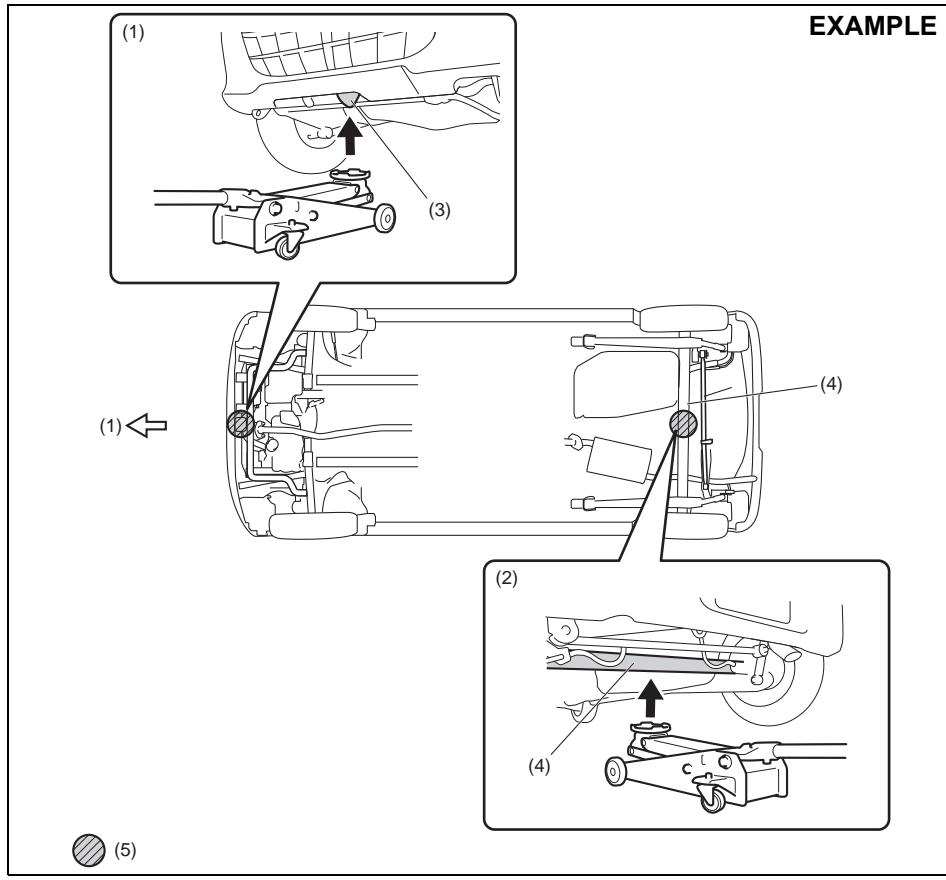
### WARNING

- Use the jack only to change wheels on level, hard ground.
- Never jack up the vehicle on an inclined surface.
- Never raise the vehicle with the jack in a location other than the specified jacking point (shown in the illustration) near the wheel to be changed.
- Make sure that the jack is raised at least 51 mm (2 inches) before it contacts the suspension arm boss. Use of the jack when it is within 51 mm (2 inches) of being fully collapsed may result in failure of the jack.
- Do not use wooden blocks or similar objects as a jack underlay.
- Never get under the vehicle when it is supported by the jack. Never place your hands and feet under the raised vehicle when it is supported by a jack.
- Never run the engine when the vehicle is supported by the jack and never allow passengers to remain in the vehicle.

### To Raise the Vehicle with a Garage Jack

- Apply the garage jack to one of the points indicated below.

## EMERGENCY SERVICE



53MH0805

- (1) Front
- (2) Rear
- (3) Jack bracket
- (4) Rear axle
- (5) Jacking point for garage jack

### NOTICE

Never apply a garage jack to the exhaust pipe or engine undercover and rear torsion beam.

### NOTE:

For more details, please contact a Maruti Suzuki authorised workshop.

## EMERGENCY SERVICE

### Changing Wheels

#### ! WARNING

Never change a wheel in traffic lane. Always move the vehicle off the road on level, hard ground away from traffic for changing a wheel. For any further assistance contact your nearest Maruti Suzuki authorised workshop.

To change a wheel, use the following procedure:

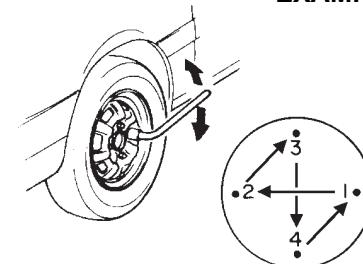
- 1) Clear all passengers and luggage from the vehicle.
- NOTE:  
*Jack and the tools are located below the luggage compartment board.*
- 2) Remove the jack, tools and spare wheel from the vehicle.
- 3) Loosen, but do not remove the wheel nuts.
- 4) Jack up the vehicle.

#### ! CAUTION

Immediately after the vehicle has been driven, the wheels, the wheel nuts and the area around the brakes might be extremely hot. Touching these areas may cause burn injury. Do not touch these areas immediately after the vehicle has been driven.

- 5) Remove the wheel nuts and wheel.
- 6) Before installing the new wheel, clean any mud or dirt off from the surface of the wheel and hub with a clean cloth. Clean the hub carefully; it may be hot from driving.
- 7) Install the new wheel and replace the wheel nuts with their cone shaped end facing the wheel. Tighten each nut snugly by hand until the wheel is securely seated on the hub.

#### EXAMPLE



53M-10-009

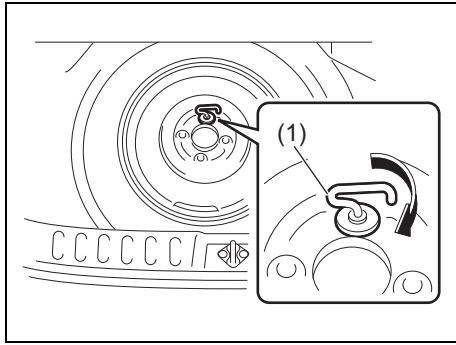
**Tightening torque for wheel nut  
85 Nm (8.5 kg-m, 61.5 lb-ft)**

- 8) Lower the jack and fully tighten the nuts in a crisscross fashion with a wrench as shown in the illustration.

#### ! WARNING

Use genuine wheel nuts and tighten them to the specified torque as soon as possible after changing wheels. Incorrect wheel nuts or improperly tightened wheel nuts may come loose or fall off, which can result in an accident. If you do not have a torque wrench, have the wheel nut torque checked by an authorized SUZUKI dealer.

## EMERGENCY SERVICE

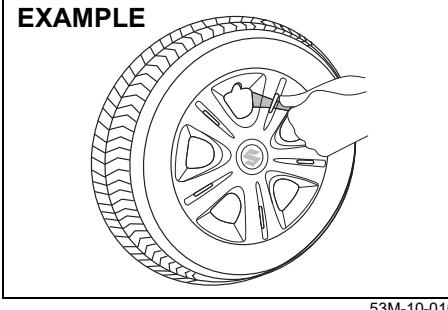


Return the spare tire back into the luggage compartment in the reverse order of removal and tighten its bolt (1) clockwise as shown in the above illustration.

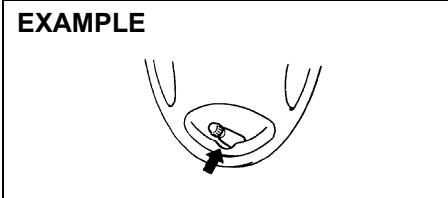
### NOTICE

Make sure that the spare tire is fixed securely on the floor. Loosely fixed tire may cause noise during driving and damage paint on vehicle body.

### Full Wheel Cover (if equipped)



Insert a piece of cloth between the spokes of the wheel cover and try to pull the cover outward (as shown in figure). Take out the detached wheel cover from the wheel rim. For installation first match the slot at the wheel cover with the air filling nozzle of the wheel. Apply equal pressure at the circumference of the wheel cover to fix it in the wheel rim.



When installing the cover, make sure that it is positioned so that it does not cover or foul the air valve.

### Jump Starting Instructions

#### ⚠ WARNING

- Never attempt to jump start your vehicle if the battery appears to be frozen. Batteries in this condition may explode or rupture if jump starting is attempted.
- When making jump lead connections, be certain that your hands and the jump leads remain clear from pulleys, belts, or fans.
- Batteries produce flammable hydrogen gas. Keep flames and sparks away from the battery or an explosion may occur. Never smoke when working in the vicinity of the battery.
- If the booster battery you use for jump starting is installed in another vehicle, make sure the two vehicles are not touching each other.
- If your battery discharges repeatedly, for no apparent reason, have your vehicle inspected by a Maruti Suzuki authorised workshop.
- To avoid harm to yourself or damage to your vehicle or battery, follow the jump starting instructions below precisely and in order. If you are in doubt, call for qualified road service.

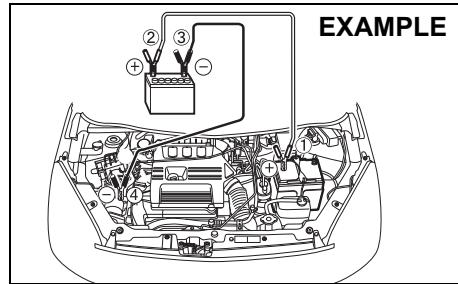
## EMERGENCY SERVICE

### NOTICE

Your vehicle should not be started by pushing or towing. This starting method could result in permanent damage to the catalytic converter. Use jump leads to start a vehicle with a weak or flat battery.

#### When Jump Starting Your Vehicle, Use the Following Procedure:

- 1) Use only a 12-volt battery to jump start your vehicle. Position the good 12-volt battery close to your vehicle so that the jump leads will reach both batteries. When using a battery installed on another vehicle, DO NOT LET THE VEHICLES TOUCH. Set the parking brakes fully on both vehicles.
- 2) Turn off all vehicle accessories, except those necessary for safety reasons (for example, headlights or hazard lights).



53M-10-012

- 3) Make jump lead connections as follows:

1. Connect one end of the first jump lead to the positive (+) terminal of the flat battery (1).
2. Connect the other end to the positive (+) terminal of the booster battery (2).
3. Connect one end of the second jump lead to the negative (-) terminal of the booster battery (2).
4. Make the final connection to an unpainted, heavy metal part (i.e. engine hook (3)) of the engine of the vehicle with the flat battery (1).

### ⚠ WARNING

Never connect the jump lead directly to the negative (-) terminal of the discharged battery, or an explosion may occur.

- 4) If the booster battery you are using is fitted to another vehicle, start the engine of the vehicle with the booster battery. Run the engine at moderate speed.
- 5) Start the engine of the vehicle with the flat battery.
- 6) Remove the jump leads in the exact reverse order in which you connected them.

### Towing

If you need to have your vehicle towed, contact a professional service. Your dealer can provide you with detailed towing instructions.

### NOTICE

To help avoid damage to your vehicle during towing, proper equipment and towing procedures must be used.

#### 2-Wheel Drive (2WD) Manual Transaxle or Auto Gear Shift

Manual transaxle vehicles or Auto Gear Shift may be towed using either of the following methods.

- 1) From the front, with the front wheels lifted and the rear wheels on the ground. Before towing, make sure that the parking brake is released.
- 2) From the rear, with the rear wheels lifted and the front wheels on the ground, provided the steering and drivetrain are in operational condition. Before towing, make sure that transaxle is in neutral, the steering wheel is unlocked (the ignition key should be in the "ACC" position), and the steering wheel is secured with a clamping device designed for towing service.

## EMERGENCY SERVICE

### NOTICE

After shifting the auto gear shift gearshift lever to the "N" position, always check the gear position indicator in the instrument cluster shows the "N" position to make sure that the transaxle is disengaged.

If the transaxle cannot be put in neutral, turn the key from the "OFF" to the "ON" position, and move the auto gear shift gearshift lever from "N" to "D", "M" or "R", then back to "N" again. Then turn the key from the "ON" to the "OFF" position.

These procedures may help put the transaxle in neutral. If the transaxle still cannot be put in neutral, you cannot tow the vehicle without using a towing dolly.

### NOTICE

The steering column is not strong enough to withstand shocks transmitted from the front wheels during towing. Always unlock the steering wheel before towing.

### If the Starter Does Not Operate

- 1) Try turning the ignition switch to the "START" position with the headlights turned on to determine the battery condition. If the headlights go excessively dim or go off, it usually means that either the battery is flat or the battery terminal contact is poor. Recharge the battery or correct battery terminal contact as necessary.
- 2) If the headlights remain bright, check the fuses. If the reason for failure of the starter is not obvious, there may be a major electrical problem. Have the vehicle inspected by your Maruti Suzuki authorised workshop.

### If the Engine is Flooded

If the engine is flooded with gasoline, it may be hard to start. If this happens, press the accelerator pedal all the way to the floor and hold it there while cranking the engine. (Do not operate the starter motor for more than 15 seconds).

### If the Engine Overheats

The engine could overheat temporarily under severe driving conditions. If the high engine coolant temperature warning light comes on as overheating during driving:

- 1) Turn off the air conditioner, if equipped.
- 2) Take the vehicle to a safe place and park.
- 3) Let the engine run at the normal idle speed for a few minutes until the high engine coolant temperature warning light goes off.

#### WARNING

If you see or hear escaping steam, stop the vehicle in a safe place and immediately turn off the engine to let it cool. Do not open the hood when steam is present. When the steam can no longer be seen or heard, open the hood to see if the coolant is still boiling. If it is, you must wait until it stops boiling before you proceed.

If the high engine coolant temperature warning light does not go off:

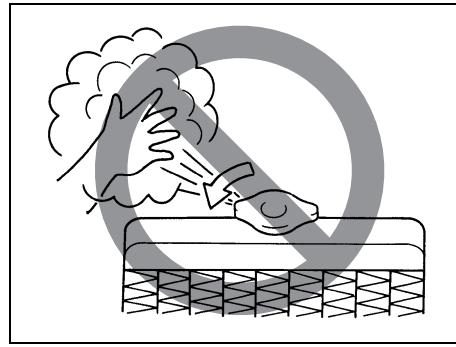
- 1) Turn off the engine and check that the water pump belt and pulleys are not damaged or slipping. If any abnormality is found, correct it.

## EMERGENCY SERVICE

- 2) Check the coolant level in the reservoir. If it is found to be lower than the "LOW" line, look for leaks at the radiator, water pump, and radiator and heater hoses. If you locate any leaks that may have caused the overheating, do not run the engine until these problems have been corrected.
- 3) If you do not find a leak, carefully add coolant to the reservoir and then the radiator, if necessary. (Refer to "Engine Coolant" in the "INSPECTION AND MAINTENANCE" section.)

**NOTE:**

If your engine overheats and you are unsure what to do, contact your Maruti Suzuki authorised workshop.



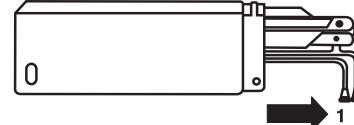
65D614

### ! WARNING

- It is hazardous to remove the radiator cap (or degassing tank cap for a diesel engine) when the water temperature is high, because scalding fluid and steam may be blown out under pressure. The cap should only be taken off when the coolant temperature has lowered.
- To help prevent personal injury, keep hands, tools and clothing away from the engine cooling fan and air-conditioner fan (if equipped). These electric fans can automatically turn on without warning.

### Warning Triangle

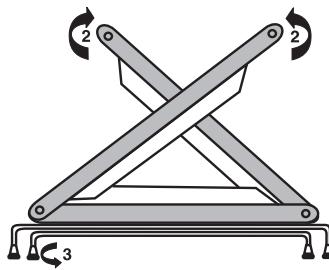
#### EXAMPLE



53M-10-014

In case of vehicle break-down or during emergency stopping, where, your vehicle could become a potential traffic hazard, keep the warning triangle, provided with your vehicle, on the road free from any obstacles behind your vehicle so as to warn the approaching traffic, at an approximate distance of 50-100 m. The reflecting side of the triangle should face the on coming traffic. Please activate the hazard warning lamps before alighting the vehicle to keep the warning triangle.

#### EXAMPLE



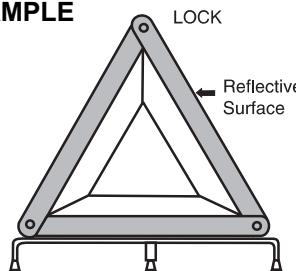
53M-10-015

## **EMERGENCY SERVICE**

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- Remove the warning triangle carefully from the cover as shown by arrow 1.
- Open both the reflector arms as shown by arrow and lock the arms with each other with the clip provided in the right arm. Open the bottom stand in counter clock-wise direction as shown by arrow 3. Position the warning triangle behind the vehicle on a plain surface.
- Reverse the removal procedure for keeping inside the cover.

### **EXAMPLE**



53M-10-016

## **APPEARANCE CARE**

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### **APPEARANCE CARE**

Corrosion Prevention .....	9-1
Vehicle Cleaning .....	9-2

**9**

## **APPEARANCE CARE**

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### **Corrosion Prevention**

It is important to take good care of your vehicle to protect it from corrosion. Listed below are instructions for how to maintain your vehicle to prevent corrosion. Please read and follow these instructions carefully.

#### **Important Information About Corrosion**

##### **Common causes of corrosion**

- 1) Accumulation of road salt, dirt, moisture, or chemicals in hard-to-reach areas of the vehicle underbody or frame.
- 2) Chipping, scratches and any damage to treated or painted metal surfaces resulting from minor accidents or abrasion by stones and gravel.
- 3) Any or all the below mentioned points:
  - Continuous exposure to sunlight
  - Hard water and sea water coming in contact with vehicle.
  - Foot rubbing (skirting).

##### **Environmental conditions which accelerate corrosion**

- 1) Road salt, dust control chemicals, sea air or industrial pollution will all accelerate the corrosion of metal.
- 2) High humidity will increase the rate of corrosion particularly when the temperature range is just above the freezing point.

- 3) Moisture in certain areas of a vehicle for an extended period of time may promote corrosion even though other body sections may be completely dry.
- 4) High temperatures will cause an accelerated rate of corrosion to parts of the vehicle which are not well ventilated to permit quick drying.

This information illustrates the necessity of keeping your vehicle (particularly the underbody) as clean and dry as possible. It is equally important to repair any damage to the paint or protective coatings as soon as possible.

#### **How to Help Prevent Corrosion**

##### **Wash your vehicle frequently**

The best way to preserve the finish on your vehicle and to help avoid corrosion is to keep it clean with frequent washing. Wash your vehicle at least once during the winter and once immediately after the winter. Keep your vehicle, particularly the underside, as clean and dry as possible. If you frequently drive on salted roads, your vehicle should be washed at least once a month during the winter. If you live near the ocean, your vehicle should be washed at least once a month throughout the year.

For washing instructions, refer to the "Vehicle Cleaning" section.

##### **Remove foreign material deposits**

Foreign material such as salts, chemicals, road oil or tar, tree sap, bird droppings and industrial fall-out may damage the finish of your vehicle if it is left on painted surfaces. Remove these types of deposits as quickly as possible. If these deposits are difficult to wash off, an additional cleaner may be required. Be sure that any cleaner you use is not harmful to painted surfaces and is specifically intended for your purposes. Follow the manufacturer's directions when using these special cleaners.

##### **Repair finish damage**

Carefully examine your vehicle for damage to the painted surfaces. Should you find any chips or scratches in the paint, touch them up immediately to prevent corrosion from starting. If the chips or scratches have gone through to the bare metal, have a qualified body shop make the repair.

##### **Keep passenger and luggage compartments clean**

Moisture, dirt or mud can accumulate under the floor mats and may cause corrosion. Occasionally, check under these mats to ensure that this area is clean and dry. More frequent checks are necessary if the vehicle is used off road or in wet weather.

Certain cargos such as chemicals, fertilizers, cleaners, salts, etc. are extremely corrosive by nature. These products should be transported in sealed containers. If a

## APPEARANCE CARE

spill or leak does occur, clean and dry the area immediately.

### Store your vehicle in a dry, well-ventilated area

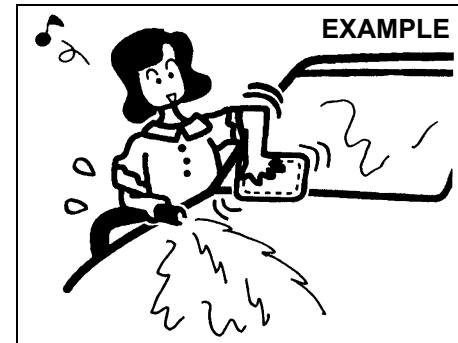
Park your vehicle to save it from continuous exposure to direct sunlight.

Do not park your vehicle in a damp, poorly ventilated area. If you often wash your vehicle in the garage or if you frequently drive it in when wet, your garage may be damp. The high humidity in the garage may cause or accelerate corrosion. A wet vehicle may corrode even in a heated garage if the ventilation is poor.

#### ⚠ WARNING

Do not apply additional undercoating or rust preventive coating on or around exhaust system components such as the catalytic converter, exhaust pipes, etc. A fire could be started if the undercoating substance becomes overheated.

### Vehicle Cleaning



76G044S

#### ⚠ WARNING

When cleaning the interior or exterior of the vehicle, NEVER USE flammable solvents such as lacquer thinners, gasoline, benzene or cleaning materials such as bleaches or strong household detergents. The materials could cause personal injury or damage to the vehicle.

### Cleaning the Interior

#### Vinyl upholstery

Prepare a solution of soap or mild detergent mixed with warm water. Apply the solution to the vinyl with a sponge or soft cloth and let it soak for a few minutes to loosen dirt.

Rub the surface with a clean, damp cloth to remove dirt and the soap solution. If some dirt still remains on the surface, repeat this procedure.

#### Fabric upholstery (Except front passenger seat)

Remove loose dirt with a vacuum cleaner. Using a mild soap solution, rub stained areas with a clean damp cloth. To remove soap, rub the areas again with a cloth dampened with water. Repeat this until the stain is removed, or use a commercial fabric cleaner for tougher stains. If you use a fabric cleaner, carefully follow the manufacturer's instructions and precautions.

## APPEARANCE CARE

### ⚠ CAUTION

- Do not spill liquid or semi-solid on the front passenger's seat. If you spill it on the front passenger's seat, immediately wipe it dry with a soft cloth. Contact of liquid with sensor may impact the function of seat belt reminder sensor.
- Do not place any sharp or heavy object on passenger seat which can penetrate through seat upholstery and can cause damage to sensor.

### Fabric upholstery (For front passenger seat)

Do not use liquid for cleaning as it may penetrate the fabric and damage the seat sensor.

### Seat belts

Clean seat belts with a mild soap and water. Do not use bleach or dye on the belts. They may weaken the fabric in the belts.

### Vinyl floor mats

Ordinary dirt can be removed from vinyl with water or mild soap. Use a brush to help loosen dirt. After the dirt is loosened, rinse the mat thoroughly with water and dry it in the shade.

### Carpets

Remove dirt and soil as much as possible with a vacuum cleaner. Using a mild soap solution, rub stained areas with a clean damp cloth. To remove soap, rub the areas again with a cloth dampened with water. Repeat this until the stain is removed, or use a commercial carpet cleaner for tougher stains. If you use a carpet cleaner, carefully follow the manufacturer's instructions and precautions.

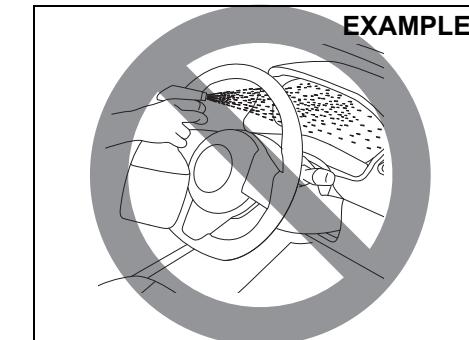
### Instrument panel and console

Remove loose dirt with a vacuum cleaner. Gently wipe dirt off with a tightly squeezed damp clean cloth. Repeat this until the dirt is removed.

### NOTICE

- Do not use chemical products that contain silicon to wipe electrical components such as the air conditioning system, audio, navigation system, or other switches. These will cause damage to the components.
- Do not spray water or any liquid directly on instrument cluster or any other electrical or electronic components. This may cause damage and/or lead to non-functioning of the part.

### EXAMPLE



81RM08005

### NOTICE

- Liquid such as liquid aromatics, soft drinks or juice may cause discoloration, wrinkles, and cracking to resin-based parts and textiles. Immediately wipe it dry with tissue paper or a soft cloth.
- Do not leave leather products with color, fur or vinyl products, etc. in your vehicle for long periods. It may cause discoloration or deterioration of interior.

## APPEARANCE CARE

### Cleaning the Exterior

#### NOTICE

It is important that your vehicle be kept clean and free from dirt. Failure to keep your vehicle clean may result in fading of the paint or corrosion to various parts of the vehicle body.

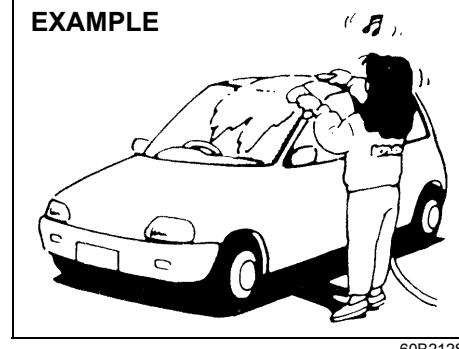
### Caring for Aluminum Wheels

#### NOTE:

- Do not use an acidic or alkaline detergent to wash aluminum wheels. These types of detergent will cause permanent spots, discoloration and cracks on finished surfaces.
- Do not use a bristle brush and soap containing an abrasive material. These will damage finished surfaces.

### Washing

#### EXAMPLE



60B212S

#### ! WARNING

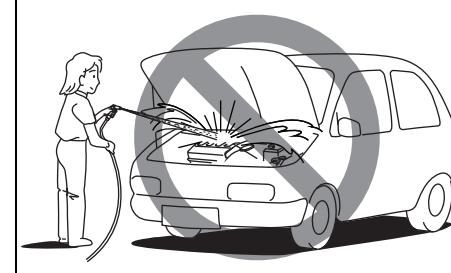
- Never attempt to wash and wax your vehicle with the engine running.
- When cleaning the underside of the body and fender, where there may be sharp-edged parts, you should wear gloves and a long-sleeved shirt to protect your hands and arms from being cut.
- After washing your vehicle, carefully test the brakes before driving to make sure they have maintained their normal effectiveness.

#### NOTICE

#### When washing the vehicle:

- Avoid directing steam or hot water of more than 80°C (176°F) on plastic parts.
- To avoid damaging engine components, do not use pressurized water in the engine compartment.

#### EXAMPLE



81RM08006

## **APPEARANCE CARE**

2) Rinse the body to loosen the dirt. Remove dirt and mud from the body exterior with running water. You may use a soft sponge or brush. Do not use hard materials which can scratch the paint or plastic. Remember that the headlight covers or lenses are made of plastic in many cases.

### **NOTICE**

**To avoid damage to the paint or plastic surface, do not wipe the dirt off without ample water. Be sure to follow above procedure.**

3) Wash the entire exterior with a mild detergent or car wash soap using a sponge or soft cloth. The sponge or cloth should be frequently soaked in the soap solution.

### **NOTICE**

**When using a commercial car wash product, observe the cautions specified by the manufacturer. Never use strong household detergents or soaps.**

- 4) Once the dirt has been completely removed, rinse off the detergent with running water.
- 5) After rinsing, wipe off the vehicle body with a wet chamois or cloth and allow it to dry in the shade.

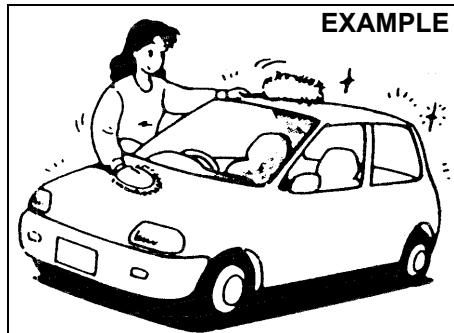
6) Check carefully for damage to painted surfaces. If there is any damage, "touch-up" the damage following the procedure below:  
1. Clean all damaged spots and allow them to dry.  
2. Stir the paint and "touch-up" the damaged spots lightly using a small brush.  
3. Allow the paint to dry completely.

### **NOTICE**

**If you use an automatic car wash, make sure that your vehicle's body parts, such as spoilers, cannot be damaged. If you are in doubt, consult the car wash operator for advice.**

## **Waxing**

### **EXAMPLE**



60B211S

After washing the vehicle, waxing and polishing are recommended to further protect and beautify the paint.

- Only use waxes and polishes of good quality.
- When using waxes and polishes, observe the precautions specified by the manufacturers.

## **GENERAL INFORMATION**

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### **GENERAL INFORMATION**

<b>Vehicle Identification .....</b>	<b>10-1</b>
<b>FASTag (if equipped) .....</b>	<b>10-1</b>
<b>High Security Registration Plate (HSRP) .....</b>	<b>10-2</b>

**10**

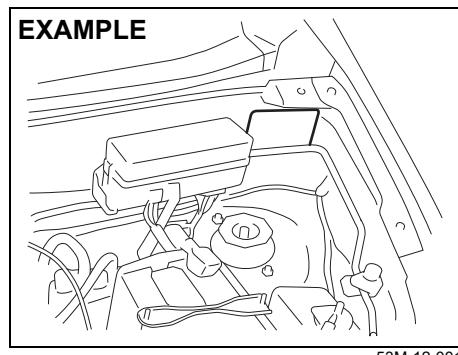
**53MH0-74E**

## GENERAL INFORMATION

### Vehicle Identification

#### Chassis Serial Number

##### EXAMPLE



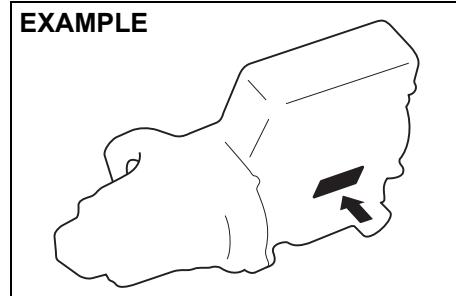
53M-12-001

The chassis and/or engine serial numbers are used to register the vehicle. They are also used to assist your dealer when ordering or referring to special service information. Whenever you have occasion to consult your Maruti Suzuki authorised workshop, remember to identify your vehicle with this number. Should you find the number difficult to read, you will also find it on the identification plate.

#### Engine Serial Number

##### ALTO

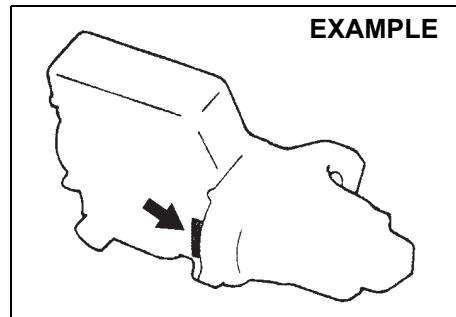
##### EXAMPLE



53M-12-002

##### ALTO K10

##### EXAMPLE



53M-12-003

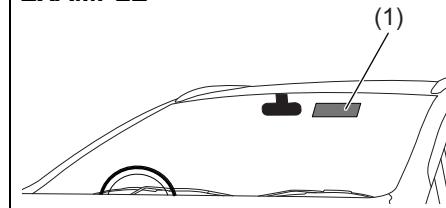
The engine serial number is stamped on the cylinder block as shown in the illustration.

#### FASTag (if equipped)

As per Ministry of Road Transport and Highways, the FASTag (1) is mandatory for each vehicle for the purpose of electronic toll collection or any other purpose as may be defined by the Government of India.

In case of any damage to FASTag or replacement of front windscreen, please contact your nearest Maruti Suzuki authorised workshop.

##### EXAMPLE



64MM01001

## **GENERAL INFORMATION**

### **As seen from inside of the vehicle**

#### **EXAMPLE**



64MM01002

#### **NOTE:**

*The picture shown is for indicative purpose only. Internal structure of actual device mounted on vehicle may be different.*

### **As seen from outside of the vehicle**

#### **EXAMPLE**



64MM01003

#### **NOTE:**

*The picture shown is for indicative purpose only. Internal structure of actual device mounted on vehicle may be different.*

#### **NOTE:**

- Any attempt to remove the tag from the windscreen will result in permanent damage to the tag.
- Use of chemical cleaners to clean the windscreen area where the tag is mounted can damage the tag.
- Use of any sharp objects on the tag can damage the tag.

### **High Security Registration Plate (HSRP)**

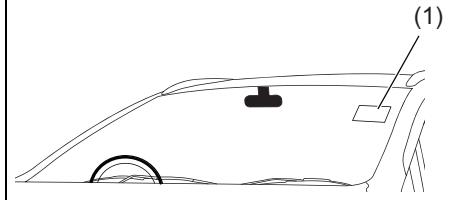
As per Ministry of Road Transport and Highways, every new vehicle must have HSRP.

HSRP contains;

- Front and rear HSRP, which will be fitted with 2 snap-locks each on number plate area.
- Third license plate on front windshield.

### **Third License Plate**

#### **EXAMPLE**



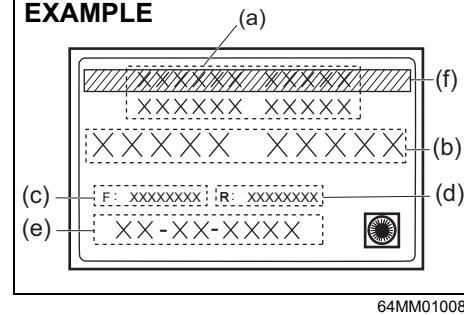
64MM01005

(1) Third license plate

## GENERAL INFORMATION

### Third license plate - As seen from outside of the vehicle

#### EXAMPLE



- (a) HSRP issuing authority name
- (b) Vehicle registration number
- (c) Unique laser number - Front plate
- (d) Unique laser number - Rear plate
- (e) Date of 1st registration  
(in DD-MM-YYYY format)
- (f) Green strips (BS6 vehicle)

#### NOTE:

*The picture shown is for indicative purpose only. Internal structure of actual label mounted on vehicle may be different.*

#### NOTE:

- Any attempt to remove the third license plate from the windscreen will result in permanent damage to the label.
- Use of chemical cleaners to clean the windscreen area where the label is mounted can damage the same.

- Use of any sharp objects on the label can damage the label.

- In the event of any replacement of the third license plate may please contact the approved authority.

### Third license plate - As seen from inside of the vehicle

#### EXAMPLE



64MM01009

#### NOTE:

*The picture shown is for indicative purpose only.*

#### NOTE:

*Color of third license plate (back) is as per HSRP regulation as defined by Ministry of Road Transport and highways.*

## SPECIFICATIONS

### SPECIFICATIONS

**NOTE:**  
Specifications are subject to change without notice.

ITEM: Dimensions		UNIT: mm	
		ALTO	ALTO K10
Overall length		3445	3545
Overall width	With Body Side Molding	1515	1515
	Without Body Side Molding	1490	1490
Overall height		1475	1475
Wheelbase		2360	2360
Track Front		1295	1295
Rear		1290	1290

ITEM: Mass (weight)		UNIT: kg	
		ALTO	ALTO K10
Curb mass (weight)		730-762	769-784
Gross vehicle mass (weight) rating		1185	1210
Permissible maximum Axle Weight	Front	630	630
	Rear	630	630

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11-1

53MH0-74E

## SPECIFICATIONS

<b>ITEM: Engine</b>		
	<b>ALTO</b>	<b>ALTO K10</b>
Type	F8D	K10B
Number of cylinders	3	3
Bore	68.5 mm	73 mm
Stroke	72.0 mm	79.5 mm
Piston displacement	796 cm <sup>3</sup> (796 cc)	998 cm <sup>3</sup> (998 cc)
Compression ratio	10.95 ± 0.4 : 1	11 ± 0.4 : 1

<b>ITEM: Electrical</b>		
	<b>ALTO</b>	<b>ALTO K10</b>
Standard spark plug	Nickel plug	NGK DCPR7E, BOSCH YR7DC
Battery		12V 34B19
Fuses	See "INSPECTION AND MAINTENANCE" section.	

## SPECIFICATIONS

ITEM: Lights		ALTO		ALTO K10	
		WATTAGE	BULB No.	WATTAGE	BULB No.
Headlight		12V 60/55W	H4	12V 60/55W	H4
Turn signal light	Front	12V 21W	P21W	12V 21W	PY21W
	Rear	12V 21W	PY21W	12V 21W	PY21W
Side turn signal light		12V 5W	W5W	12V 5W	W5W
Position light		12V 5W	W5W	12V 5W	W5W
Brake/tail light		12V 21/5W	P21/5W	12V 21/5W	P21/5W
License plate light		12V 5W	W5W	12V 5W	W5W
Reversing light		12V 21W	P21W	12V 21W	P21W
Interior light		12V 8W	C8W	12V 8W	C8W
High mount stop light		12V 16W	W16W	12V 16W	W16W

## SPECIFICATIONS

ITEM: Wheels and Tires		
	ALTO	ALTO K10
Tire size, front and rear	—	155/65 R13 73S <sup>*1</sup>
	145/80R12 74S <sup>*1</sup>	155/65 R13 73T <sup>*1</sup>
	145/80R12 74T <sup>*1</sup>	—
Tire size, spare <sup>*4</sup>	—	—
	—	—
Rim size	—	155/65 R13 73S <sup>*1</sup> : 13X4 1/2J
	145/80R12 74T <sup>*1</sup> : 12 × 3.50B	155/65 R13 73T <sup>*1</sup> : 13X4 1/2J
	145/80R12 74T <sup>*1</sup> : 12 × 3.50B	—
Tire pressures	For the specified tire pressure, see the Tire Information Label located the driver's door lock pillar.	

\*1: When tire replacement is necessary and if the specified load index and speed rated tire is not available, then use a tire of higher load index and speed rating.

ITEM: Capacities (approx.)		
Fuel tank		35 L <sup>#</sup>
Coolant	ALTO	See "INSPECTION AND MAINTENANCE" section
	ALTO K10	3.5 L (including reservoir tank) 4.5 L (including reservoir tank)
Engine oil	ALTO	Classification: API SG+, SL, SM and SN Viscosity: SAE 5W-30
	ALTO K10	Classification: API SL, SM and SN Viscosity: SAE 0W-20
Transaxle oil	ALTO	"MARUTI GENUINE GEAR OIL 75W-80"
	ALTO K10	1.5 L 1.45 L

# The fuel tank capacity is slightly more than the recommended quantity of fuel that you can fill. The additional voluminous space is provided for safety and scientific reasons.