

Owner's Manual

Variants — S4/S5/S7/S11

Issue Date: March 2018

NOTE: *Carefully read, understand and follow the instructions provided in this manual, and keep it in a safe place for future reference. If you have any doubt whatsoever regarding the use or care of your vehicle, please visit your Mahindra Dealer for assistance or advice.*

This Owner's Manual should be considered as an integral part of the vehicle and should remain with the vehicle.



MAHINDRA & MAHINDRA LTD., GATEWAY BUILDING, APOLLO BUNDER, MUMBAI - 400 039

www.mahindra.com

Table of Contents

1	INTRODUCTION AND SAFETY PRECAUTIONS	1-1			
	Introduction	1-1			
	Safety Symbols	1-2			
	General Safety Information and Instructions	1-2			
	To Owner's of a Mahindra Vehicle	1-4			
	Audio/Infotainment Manual	1-7			
2	GENERAL	2-1			
	Feature Matrix	2-1			
	Lubricants and Capacities	2-5			
	Dimensions	2-7			
	Bulb Specification	2-8			
	Fuses and Relays	2-8			
	Flat Tire	2-14			
	Jack Points	2-18			
	Technical Specifications	2-22			
	Vehicle Identification Number [VIN]	2-25			
	Engine Number	2-25			
3	VEHICLE OVERVIEW	3-1			
	Front Overview	3-1			
	Rear Overview	3-2			
	Instrument Panel Overview	3-3			
4	INSTRUMENT CLUSTER OVERVIEW	4-1			
	Instrument Cluster - Type 1	4-1			
	Instrument Cluster - Type 2	4-2			
	Warning Lamps Overview	4-3			
	Warning Lamps	4-5			
5	SEATS AND SEAT BELTS	5-1			
	Driver seat	5-1			
	Head Restraint	5-3			
	Second Row Bench Seat	5-4			
	Second Row Seat 60:40	5-5			
	Second Row Captain Seat Arrangement	5-7			
	Foldable Arm-Rests	5-9			
	Third Row Seats	5-9			
	General Warnings and Instructions- Seat Belts	5-10			
	Child Restraint System [CRS]	5-14			
6	SUPPLEMENTAL RESTRAINT SYSTEM [SRS] (if equipped)	6-1			

Table of Contents

Airbags	6-1	Parking Lamps On	8-9
Introduction.....	6-1	Head Lamp On.....	8-9
7 LOCKS AND KEYS	7-1	Head Lamp High Beam/Low Beam.....	8-9
Locks and Keys.....	7-1	Head Lamp Flash	8-10
Central Locking System.....	7-4	Auto Head Lamp	8-10
Anti—Lockout System	7-5	Head Lamp Leveling System	8-11
Remote Keyless Entry (RKE) System	7-6	Magic Lamps	8-12
Engine Immobilizer System.....	7-11	Hazard on Panic Braking	8-12
8 FEATURES AND CONTROL.....	8-1	Static Bending Lamps.....	8-12
Power Windows.....	8-1	Fog Lamps.....	8-12
Butterfly Window (Rear Quarter Window).....	8-4	Puddle Lamps.....	8-13
Outside Rear View Mirror (ORVM)	8-5	Follow-Me Home (FMH) with Rain Light Sensor (RLS)	8-13
Tip-Tap ORVM Adjustment	8-6	Follow-Me Home (FMH) Non RLS	8-14
Manual (Joystick) ORVM Adjustment	8-6	Lead Me to Vehicle (LMV)(if equipped)	8-15
Electric ORVM Adjustment.....	8-6	Hazard Warning Lamp.....	8-15
Interior Mirror	8-7	Interior Lamps.....	8-16
Exterior Lamps.....	8-7	Power Outlet.....	8-18
Turn Signals	8-7	Windshield Wipers.....	8-20
Lamps Off	8-8		

Table of Contents

Utility Holders	8-24	Anti-Lock Brake System (ABS) (if equipped)	9-6
Horn	8-27	10 HEATING, VENTILATION AND AIR-CONDITIONING SYSTEM	
Instrument Cluster - Type 1	8-28	[HVAC]	10-1
Instrument Cluster - Type 2	8-29	Heating, Ventilation And Air-Conditioning System	
Instrument Cluster Gauges	8-30	[HVAC]	10-1
Warning Lamps Overview	8-35	HVAC Overview	10-2
Warning Lamps in the Instrument Cluster	8-37	Center/Side Vents	10-3
Voice Messaging System (VMS)	8-42	Second Row Floor Vents	10-4
Reverse Parking Assist System (RPAS) – Type 1	8-46	HVAC Controls	10-4
Reverse Parking Assist System (RPAS) – Type 2	8-54	Automatic Climate Controller	10-5
Rear View Camera	8-55	Air Distribution Control	10-5
Cruise Control	8-59	Blower Speed Control	10-6
Micro Hybrid – Stop/Start System (if equipped)	8-63	Temperature Control	10-7
FASTag (if equipped)	8-68	Air Intake Mode Control	10-8
9 STEERING AND BRAKES	9-1	HVAC Air Filter (Cabin Air Filter)	10-9
Steering	9-1	Air-Conditioner ON	10-10
Tilt Steering	9-2	Rapid Cabin Cooling	10-11
Steering Controls - Audio Control System	9-3	Rapid Cabin Heating	10-12
Brakes	9-4	Defogging/De-misting and Defrosting	10-12

11	STARTING AND DRIVING THE VEHICLE.....	11-1	Vehicle Does Not Start - Checks.....	13-2
	Safety Tips - Before Starting Your Vehicle.....	11-1	Vehicle Overheating.....	13-3
	Ignition Switch.....	11-2	Jump Starting.....	13-4
	Starting the Engine.....	11-3	Towing	13-7
	Stopping the Engine	11-4	Limp Home Mode.....	13-9
	Manual Transmission.....	11-5	14 MAINTENANCE	14-1
	Driving Your Vehicle.....	11-7	General Owners Information.....	14-1
	Four Wheel Drive (4WD) System (if equipped)	11-11	Suggestions for Obtaining Service for your	
	Fuel.....	11-14	Vehicle.....	14-1
	Tips for Better Fuel Economy.....	11-16	Need Assistance?	14-2
12	WHEELS AND TYRES.....	12-1	Warranty Information.....	14-2
	Tyre Information.....	12-1	Protect your Warranty.....	14-2
	Tyre Rating	12-1	Maintenance Interval.....	14-3
	Tyre Label (Vehicle Placard).....	12-2	Vehicle Self Maintenance - General Precautions	14-4
	Tire Pressure.....	12-3	Opening/Closing the Hood.....	14-4
	Tyre Rotation Recommendations.....	12-6	Identifying Components in the Engine	
	Tiretronics (if equipped)	12-8	Compartment.....	14-6
13	EMERGENCIES.....	13-1	General Maintenance	14-7
	Hazard Warning Lamp.....	13-1	In the Engine Compartment.....	14-8

Table of Contents

Maintenance - Inside the Vehicle	14-15
Maintenance - Outside the Vehicle	14-16
Battery.....	14-16
Appearance Care and Protection.....	14-19
Air Conditioning System Maintenance.....	14-22
Vehicle Storage.....	14-23
Winter Care	14-23
Bulb Replacement	14-24
Scheduled Maintenance.....	14-25
Maintenance Schedule Chart.....	14-26



1 INTRODUCTION AND SAFETY PRECAUTIONS

1.1 Introduction

Dear Customer,

Congratulations on purchasing Mahindra SCORPIO. Your vehicle has been designed to provide years of safe and dependable service, as long as it is used and maintained in accordance with the instructions provided in this manual.

All persons who will use and/or maintain this vehicle must read, understand and follow all warnings and instructions provided in this manual. This Owner's Manual should be considered an integral part of the vehicle and should remain with the vehicle. However, nothing in this manual, and none of the safety devices installed in the vehicle, are a substitute for careful operation and common sense. Always make sure that your vehicle is in optimum working order, and take note of the road and weather conditions under which you are using your vehicle.

If you have any questions concerning the proper use or maintenance of your vehicle, please call your Authorized Mahindra Dealer. A list of dealers can be found in the Dealer Directory Supplement.

Alternatively you can contact Mahindra at,

- 1800-209-6006 (Toll free)
- customercare@mahindra.com

We extend our best wishes for safe and pleasurable motoring.

Sincerely,

MAHINDRA & MAHINDRA LTD.



Servicing and Summary Data

- For all issues concerning the vehicle and for any need of spare parts, contact only the Authorized Mahindra network
- We recommend you always use genuine Mahindra spare parts when performing repairs on the vehicle
- We suggest that you record the vehicle data in the Warranty Information & Maintenance Guide for future references

1.2 Safety Symbols

Carefully read, understand and follow the safety symbols/ instructions given in this manual.

Legend of the Symbols

To emphasize information and procedures regarding safety, use, maintenance, etc., the following symbols are used throughout the manual.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

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

CAUTION

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

NOTICE

NOTICE indicates important information relevant to the vehicle, the vehicle's use or to sections of this manual to which particular attention must be paid for optimum use of the vehicle.

If you see this symbol, it indicates “no”, “do not”, “do not do this,” or “never”.



1.3 General Safety Information and Instructions

WARNING

Failure to follow the warnings and instructions provided in this manual could result in failure of the vehicle, an accident and/or serious personal injury.

1. Carefully read, understand and follow the warnings and instructions given in this manual. This manual is an essential



- part of the product. Keep it in the vehicles glove box for future reference
2. First aid kit placed in the glove box of the vehicle. Ensure it is not taken out of the vehicle at any point of time.
 3. Please note that throughout this manual, reference is made that “an accident” could occur. An accident could cause you or a bystander to sustain personal injury, or result in property damage
 4. Never use a mobile phone or any device with headphone while driving. This may take your focus off the road and lead to accidents
 5. Please be advised that many service and repair tasks require specialized knowledge, tools and experience. General mechanical aptitude may not be sufficient to properly service or repair your vehicle. If you have any doubt whatsoever regarding the ability to properly service or repair your vehicle, please contact your Authorized Mahindra Dealer or a qualified technician
 6. Inspect the seat belt system periodically, checking for cuts, frays or wear in the seat belt webbing, or loose buckles, retractors, anchors or other loose parts. Damaged parts must be replaced immediately
 7. Always start and operate the engine in a well-ventilated area. If in an enclosed area, vent the exhaust to the outside. Do not modify or tamper with the exhaust system
 8. Examine tyres for excessive tread wear and uneven wear patterns. Check for stones, nails, glass, or other objects lodged in the tread and check sidewalls for any cuts, cracks, or other signs of wear. Replace as necessary
 9. Always maintain the safety labels affixed to your vehicle in a good legible condition
 10. All signal lamps, buzzers, shields, guards and other protective safety devices must always remain in place and in good, proper working condition
 11. The life span of Mahindra products depend on many factors. Improper use, abuse or harsh use in general may compromise the integrity of the vehicle and significantly reduce its life span. The vehicle is also subject to wear over a period of time. Please have your vehicle regularly inspected by an Authorized Mahindra Dealer or a qualified mechanic. If the inspection reveals any damage or excessive wear, immediately replace or have the component serviced
 12. We recommend that you use only genuine parts supplied by Mahindra. The use of non-Mahindra parts will not be covered by warranty
 13. Never crawl under or be in close proximity to the vehicle when it is lifted off the ground (by a jack), unless the vehicle is properly supported with jack stands, wheel chocks and other appropriate safety devices
 14. Never attempt any repairs or adjustments to any component while the vehicle is in motion. Always switch off the engine, and



wait for the engine to come to a complete stop before performing any repairs or adjustments

15. The vehicle identification plates are the only legal identification reference, hence it is necessary to keep them in good condition. Never modify data on the plates or remove them. The customer is responsible for any possible tampering with the plates, which will immediately void the warranty
16. Do not attempt sharp turns, abrupt maneuvers, or other unsafe driving actions that can cause loss of vehicle control. When the vehicle is fully loaded, drive at a slow speed, especially when turning. Note that the centre of gravity of the vehicle changes when the vehicle is fully loaded, and also if luggage is mounted on the roof carrier

1.4 To Owner's of a Mahindra Vehicle

When first driving the vehicle after long periods of non-use, you may experience a temporary drive disturbance. This is a characteristic of the tyres and should be no reason for concern. The condition should correct itself within 5-15 kms. of driving. If the disturbance persists, have the tyres checked by an Authorized Mahindra Dealer.

Driving and Alcohol

Your driving ability can be seriously impaired by alcohol even if the blood alcohol level is far below the legal minimum. Drunken driving is one of the most frequent causes of accidents.

WARNING

Never drink and drive. Drinking and driving will lead to an accident resulting in serious personal injury.

Driving and Drugs/Medication

Your driving ability can be seriously impaired through the use of prescription or non-prescription drugs or medication (even cough syrup). If you are taking any sort of drug or medication, be sure that it will not affect your driving ability.

Mobile Phones Warning

Use of electrical devices such as mobile phones, computers, portable radios or other by the driver while driving is dangerous. In exceptional condition if use of a mobile phone is necessary despite this warning, use a handsfree system to ensure that the hands are free to drive the vehicle. Even handsfree do not ensure that due to distraction a accident will not happen

Please comply with the legal regulations concerning the use of communication equipment in vehicles in your country.

Driving Long Distances

When you are driving over long distances, follow these tips so that you have a safe journey;

- Lack of sleep or fatigue will impact your ability to drive safely.



- Exercise your eyes by shifting the focus of your eyes to different parts of the road.
- Use stimulating beverages such as coffee or tea.
- Relax and stay calm.
- Take breaks at regular intervals

Protecting Our Environment

All of us should play our part in protecting our environment. Judicious vehicle usage and ensuring hazardous waste disposal (including cleaning and lubrication fluids) are important steps towards this initiative.

Mahindra vehicles conform to existing emission norms (standards). Adhering to the periodical maintenance schedule and using Mahindra genuine parts will help retain emission performance of the vehicle and is a pre-requisite for emissions warranty coverage.

Servicing

If you have any questions concerning the proper use or maintenance of your vehicle, please call your Authorized Mahindra Dealer. A list of dealers can be found in the Dealer Directory Supplement or on the Internet.

Alternatively you can contact us on **1800-209-6006** / **customercare@mahindra.com**.

Running-in

Driving smoothly during first 1000 kms. will help to prevent abnormal and premature system wear. Proper running in will improve the life of drivetrain and vehicle components.

A new engine may consume more oil during the first 1000 kms. of running. This should be considered as a normal part of break-in and not interpreted as any problem with the engine.

Mahindra Genuine Parts

Mahindra uses high quality parts for building the vehicles.

In the event that any parts need replacement, we recommend that you use only Mahindra genuine parts.

Non-Mahindra parts may harm vehicle performance and will not be covered by your Mahindra warranty.



To avoid counterfeit parts and to protect our brand image, Mahindra genuine parts are packed in a branded carton. Look for the “Mahindra Genuine Parts” logo.



WARNING

Any unauthorized modifications or alterations to this vehicle or failure to use appropriate specification and quality spare parts could seriously affect vehicle road worthiness and safety leading to an accident, resulting in serious injury

Mahindra Genuine Accessories

A wide selection of quality accessories is available through your authorized Mahindra dealership. These accessories have been specifically engineered to allow you to personalize your vehicle to suit your requirements and compliment its style and aerodynamic appearance.

Each accessory is made from high quality materials and meets Mahindra's rigid engineering and safety specifications. Every Mahindra accessory installed according to the Mahindra installation provisions comes with the respective accessory warranty.

Consult your Mahindra authorized dealer for detailed information about accessories available for your specific model variant.

NOTICE

For maximum vehicle performance and safety considerations always keep the following information in mind.

- *When adding accessories, equipment, passengers and luggage to your vehicle, do not exceed the total weight capacity of the vehicle or of the front and rear axle. Consult Mahindra authorized dealer for specific weight information.*
- *Bull bars and nudge guards are not recommended for variants with an airbag.*
- *Accessories causing any change in vehicle specifications like wheel rims, bull bars, etc., may affect the performance of safety systems.*
- *Mobile communication systems such as two way radios, telephones and theft alarms that are equipped with radio transmitters and installed in your vehicle should comply with the local regulations and should be installed only by a your Authorized Mahindra Dealer*

Vehicle Safety

When leaving your vehicle unoccupied;

- Always remove the ignition key when you park the vehicle
- Close all the windows completely and lock all the doors



- Do not leave any valuables in your vehicle. If you must leave something in your vehicle, hide them and securely lock all the doors

1.5 Audio/Infotainment Manual

Please refer the Audio/Infotainment manual available in the manual pouch for details regarding;

- Audio/Video functions
- Bluetooth functions
- Navigation (if equipped)
- Map upgradation details

NOTICE

To upgrade the maps in your navigation system (if equipped), please refer the Infotainment manual.



2 GENERAL

2.1 Feature Matrix

NOTICE

In view of our policy of continuously improving our products, we reserve the right to alter specifications, designs or features without prior notice and without liability.

We recommend you contact the nearest Authorised Mahindra Dealer for the latest features applicable to your vehicle.

Feature	S4	S5	S7	S11
Technology				
Tiretronics				✓
Reverse Parking Assist			✓	✓
Reverse Camera				✓
Auto Wipe & Auto Head lamp				✓
Headlamp ON Reminder	✓	✓	✓	✓
One Touch Lane Change Indicator	✓	✓	✓	✓
Digital Immobiliser	✓	✓	✓	✓
Voice Assist System			✓	✓
Remote Locking/Unlocking			✓	✓



Feature	S4	S5	S7	S11
Auto Roll UP				✓
Illuminated Key Ring	✓	✓	✓	✓
Infotainment			Basic Audio	Touchscreen & GPS
Safety				
Dual Airbags		✓	✓	✓
Anti-Lock Braking System (ABS) with EBD		✓	✓	✓
Collapsible Steering Column	✓	✓	✓	✓
Tubeless Tyres	✓	✓	✓	✓
Smart Window (Anti-pinch Driver Side only)				✓
Gear Indicator				✓
Reverse Gear Buzzer *			✓	✓
Style				
17 inch Alloy Wheels				✓
17 inch Steel Wheels	Black finish	Black finish	Black finish	
Roof—top Ski Racks			✓	✓
Spoiler			✓	✓
Wheel Caps	✓	✓	✓	✓
Front Fog Lamps				✓
Side Cladding	Body Coloured	Body Coloured	Body Coloured	Body Coloured



Feature	S4	S5	S7	S11
Comfort				
Tiltable Steering	✓	✓	✓	✓
HVAC with Rear Vents	✓	✓	✓	Automatic Climate Control
Individual Armrest for Driver & Co-driver Seats			✓	✓
Middle Row Sliding (8 Seater)			✓	✓
Centre Armrest for 2nd row	60:40 Seat only	60:40 Seat only	60:40 Seat only	✓
Driver Seat Height Adjust			✓	✓
ORVM			Electric	Electric adjustable with STI
Convenience				
Power Steering	✓	✓	✓	✓
Power Windows	✓	✓	✓	✓
Extended Power Window				✓
Central Locking			Remote	
Power Socket	Front & Middle Rows			
Rear Wipe & Wash			✓	✓
Rear Demister			✓	✓
Head lamps			Projector lamps	Projector with static bending lamps
Lead-me-to-Vehicle			✓	✓
Follow-me-Home Head lamps			✓	✓



Feature	S4	S5	S7	S11
Puddle Lamps			Only Front door	Only Front door
Cruise Control				✓
Steering Mounted Audio & Cruise Controls				✓
Micro Hybrid Technology	✓	✓	✓	✓

* If equipped



2.2 Lubricants and Capacities

System	Lubricant	Capacity	Specification	Remarks
Engine Oil	MAHINDRA “MAXIMILE FEO” NEW GENERATION GENUINE ENGINE FLUID	6.0 liters	Special Engine Fluid	Always use "MAXIMILE FEO" new generation Mahindra genuine engine oil. This is specially developed for your engine’s optimum performance and fuel efficiency In extreme cases of emergency and non-availability of above oil, we suggest Engine Oil meeting minimum API CH-4 SAE 15W-40 specification can be used and replaced at 10,000 km. This alternate oil or other Brand will not provide equivalent performance of above Genuine oil
Engine Cooling	MAHINDRA “MAXIMILE ULTRA COOL” (READY TO USE COOLANT. NO NEED TO MIX WATER)	~7.5 liters	Brand specific. Don't use other coolants / water for top up. In case of emergency, coolant meeting JIS K-2234 specification should be used (30% concentration diluted with distilled water) and coolant change period to be reduced as 30,000 kms	
Manual Transmission	MAHINDRA “MAXIMILE SYNTEC F2” NEW GENERATION GENUINE TRANSMISSION OIL	2.25 liters	Special Manual Transmission Fluid	If Maximile GO Synchro 80W-90 is used, the oil change interval to be reduced to 40,000 kms. Other Transmission Oils meeting API GL-4 SAE 80W-90 Specifications, Drain Interval should change to 20000km. Other Brand may not provide equivalent performance of recommended oil
Transfer Case Fluid (4WD only)	SHELL “SPIRAX S3 ATF MD3” / CALTEX “TEXAMATIC 1888”	1.2 liters	DEXRON III	—
Rear Axle	MAHINDRA “MAXIMILE ELITE” NEW GENERATION GENUINE DIFFERENTIAL OIL	2.1 liters	Special Differential Fluid	Other Axle Oils meeting API GL-5 SAE 80W-90 Specifications, Drain Interval should change to 20,000km. Other Brand may not provide equivalent performance of recommended oil
Front Axle (4WD only)		1.2 liters		
Power Steering	SHELL “SPIRAX S3 ATF MD3”	0.8 liters	Alternately CALTEX MAKE "TEXAMATIC 1888" BRAND can be used . NO OTHER BRAND SHOULD BE USED	

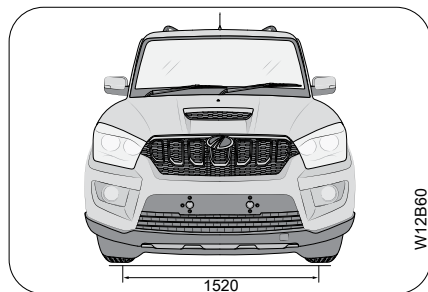


Brake and Clutch	MAHINDRA "MAXIMILE DOT 4" GENUINE BRAKE FLUID	0.9 liters	If Maximile DOT 4 brake fluid is not used and in emergency conditions, use Brake Fluid Meeting SAE J1703 FMVSS NO.116 DOT 4 OR IS 8654 TYPE-2 Specification and change it at 30,000 km or 2 years whichever earlier
Recommended Fuel	Diesel conforming to Indian standard IS 1460; 2010 BS IV specification or equivalent.	60 liters	—

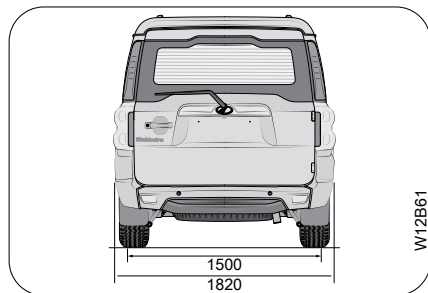


2.3 Dimensions

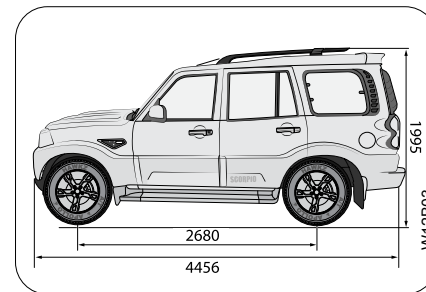
2.3.1 Front View



2.3.2 Rear View



2.3.3 Side View



DIMENSION & WEIGHTS	mm
Wheel Base	2680 mm
Overall Length	4456 mm
Overall Width	1820 mm [excluding outside mirrors]
Overall Height	1948 without ski rack 1995 with ski rack
Track Width (Front)	1520 mm
Track Width (Rear)	1500 mm
Maximum GVW	2510 (2WD) 2610 (4WD)

The specifications are for reference only. Subject to change without prior notice



2.4 Bulb Specification

Lamp Bulb	Wattage	No. of Bulbs per Vehicle
Head Lamp - Low Beam	H7 55W	2
Head Lamp - High Beam	H7 55W	2
Front Turn Signal Lamp	21W	2
Side Turn Signal Lamp (Fender)	5W	2
Side Turn Signal Lamp (ORVM)*	LED*	2
Static Bending Lamp *	H1 55W	2
Front Position Lamp *	LED* / 5W	LED* / 2
High Mount Stop Lamp	LED* / 10W	LED* / 2
Brake Lamp	LED*	LED*
Rear Turn Signal Lamp	16W	2
Rear Position Lamp	LED*	LED*
Reversing Lamp	16W	2
Front Fog Lamp *	19W	2
Rear License Plate Lamp	5W	2
Interior Lamps Bulb	10W	1

Lamp Bulb	Wattage	No. of Bulbs per Vehicle
Puddle Lamps *	LED*	LED*
* select models only, subject to LED serviceability		

2.5 Fuses and Relays

A fuse is the most common electric protection device. The fuse is placed in an electrical circuit, so that when current flow exceeds the rating of the circuit/fuse, it blows off. The element in the fuse melts, opening the circuit and preventing other components of the circuit from being damaged by the over current. The size of the metal fuse element determines the rating. Once a fuse blows off, it must be replaced with a new one.

Switch the ignition and all electrical equipment OFF before touching or attempting to change a fuse.

CAUTION

Replacement fuse must be with the same rating as the one you have removed.

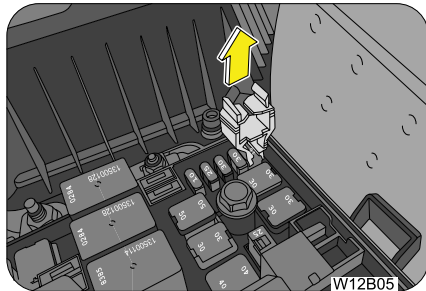
NOTICE

You can identify a blown fuse by a break in the filament. All fuses except high current fuses are press fit.



Never touch fuses with bare hands. Always use a fuse puller to remove and refit the fuses. The fuse puller is available in the IP fuse box.

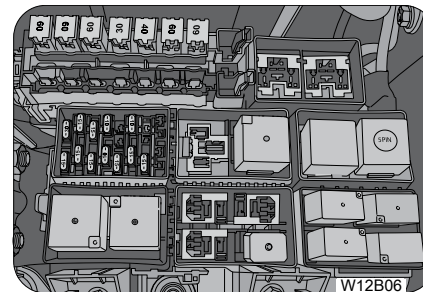
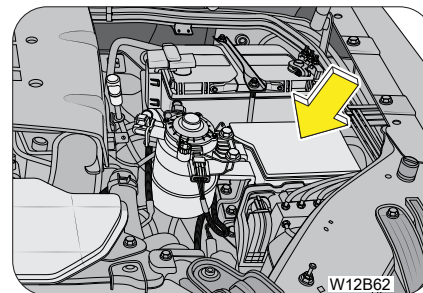
Be careful while removing the relay, do not shake or apply excessive force to avoid damage to relay terminal.



Three fuse boxes in the vehicle;

- Battery Mounted Fuse Box
- Engine Compartment Fuse Box
- Instrument Panel Fuse Box

2.5.1 Engine Compartment Fuse Box

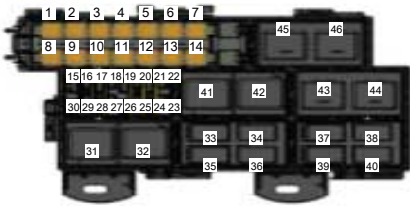
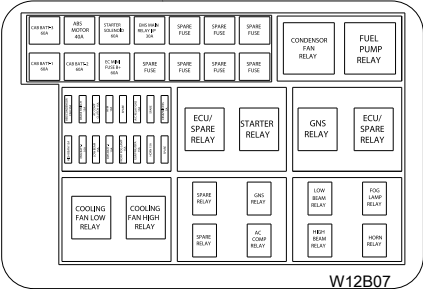


The engine compartment fuse box is located adjacent to vehicle battery. Follow the below steps to remove the fuse cover;

- Slightly press/nudge the fuse cover towards the vehicle LHS and remove the left snap lock



- Further, push top cover towards vehicle RHS and remove/pull the cover completely



Fuse No	Fuse Rating	Circuit
1	60A	Battery — 3
2	40A	ABS
3	60A	Starter Solenoid

Fuse No	Fuse Rating	Circuit
4	30A	EMS Relay
5		Spare Fuse
6		Spare Fuse
7		Spare Fuse
8	60A	Battery — 1
9	60A	Battery — 2
10	60A	EC Mini Fuse
11		Spare Fuse
12		Spare Fuse
13		Spare Fuse
14		Spare Fuse
15	30A	ABS Solenoid / Condenser Fan
16	15A	Brake switch
17	15A	AC Comp Clutch
18	10A	HFM
19		Spare
20	10A	AC Relay/GNS
21		Spare
22	5A	CBS/ISS

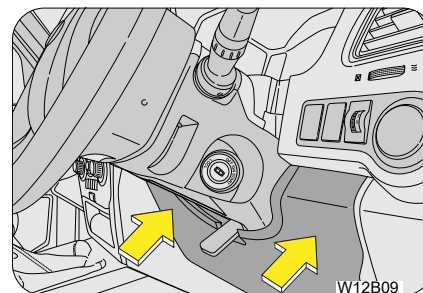


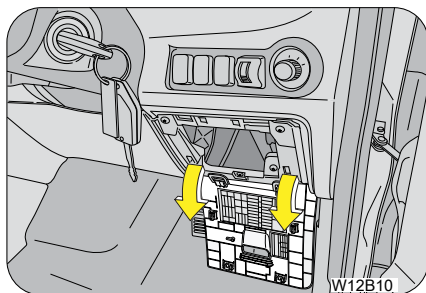
Fuse No	Fuse Rating	Circuit
23		Spare
24	15A	Horn
25	15A	EGR
26	15A	Front Fog Lamp
27	10A	EMS Battery-2
28	15A	Low Beam
29	10A	EMS Battery-1
30	15A	High Beam

Relay No	Circuit
31	Cooling Fan Low Relay
32	Cooling Fan High Relay
33	Spare
34	GNS Relay
35	Spare
36	AC Compressor Relay
37	Head lamp LO Beam Relay
38	Fog Lamp Relay
39	Head lamp HI Beam Relay
40	Horn Relay

Relay No	Circuit
41	Spare
42	Starter Relay
43	GNS Relay
44	ECU Relay
45	Condenser Fan Relay
46	Fuel Pump Relay

2.5.2 Instrument Panel Fuse Box





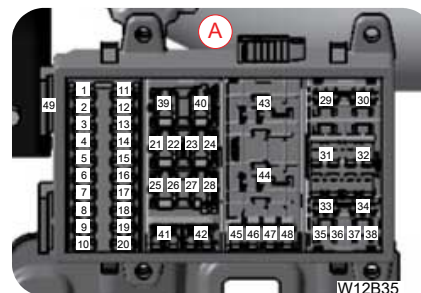
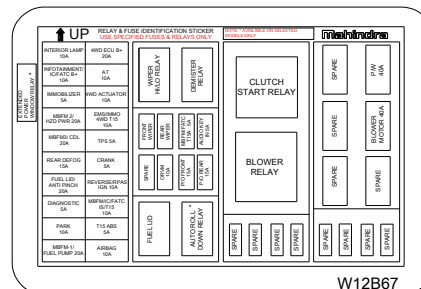
- Unlock the steering tilt lever (push it down)
- Remove the two screws of the shroud below the steering column
- Open the shroud outward to access the instrument panel fuse box

! CAUTION

Put the steering column shroud back and ensure you lock the tilt steering lever.

Spare fuses are available in this fuse box location.

Fuse puller (A) is available in this fuse box location.



Fuse No	Fuse Rating	Circuit
1	10A	Interior Lamps
2	10A	Infotainment/IC/FATC
3	5A	Immobilizer
4	20A	MBFM2/HZD PWR



Fuse No	Fuse Rating	Circuit
5	20A	MBFM3/CDL
6	15A	Rear Defogger
7	20A	Fuel Lid/Anti Pinch
8	5A	Diagnostic
9	10A	Park
10	20A	MBFM1/Fuel Pump
11	20A	4WD ECU
12	10A	AT
13	10A	4WD Actuator
14	10A	EMS/Immobilizer
15	5A	TPS
16	5A	Crank
17	10A	Reverse/RPAS IGN
18	10A	MBFM/IC/FATC/IS
19	5A	ABS
20	10A	Airbag
21	15A	Front Wiper
22	10A	Rear Wiper
23	5A	MBFM/FATC
24	5A	Audio Key IN

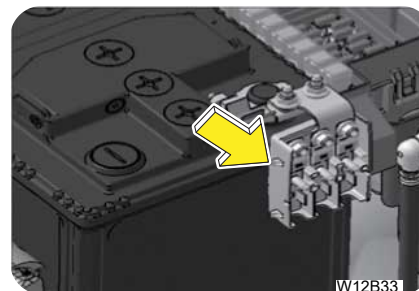
Fuse No	Fuse Rating	Circuit
25		Spare
26	10A	ORVM
27	15A	P/O Front
28	15A	P/O Rear
29		Spare
30	40A	Power Windows
31		Spare
32	40A	Blower Motor
33		Spare
34		Spare
35		Spare
36		Spare
37		Spare
38		Spare

Relay No	Circuit
39	Wiper HI/LO Relay
40	De-mister Relay
41	Fuel Lid Relay
42	Spare

Relay No	Circuit
43	Clutch Start Relay
44	Blower Relay
45	Spare
46	Spare
47	Spare
48	Spare
49	Extended Power Window Relay*

2.5.3 Battery Mounted Fuse Box

The battery mounted fuse box is connected to the positive terminal of the battery. Functionality of battery mounted fuse box is to provide short circuit protection to alternator, power supply to main engine compartment fuse box & electric cooling fan.



Battery mounted fuse box consist of following fuses:

- Main charging fuse – 125A
- Bus bar fuse - 80A
- Cooling fan fuse – 60A

2.6 Flat Tire

Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place well away from traffic. Park on a level spot with firm ground. Stop the engine and turn ON your hazard warning flashers.

Firmly apply the parking brake. Have everyone come out of the vehicle on the side away from traffic.



⚠ WARNING

Never stop your vehicle in a traffic lane to change a tire. Keep driving until you reach a safe location.

The jack provided along with the vehicle is to be used only for changing a spare tire. It is never to be used to perform any other maintenance or repair on the vehicle.

⚠ WARNING

Never place any part of your body under any portion of the vehicle when it is supported only by the jack. You could be crushed by the vehicle if it falls off a jack. Keep by-stander's away from the vehicle.

Find level, solid ground that is clear of oncoming traffic. If you cannot find a safe place to stop, it is better to drive on a flat tire and damage the rim than it is to risk being hit by oncoming traffic.

After changing a flat tire, never store the tire or other equipment in the passenger compartment of the vehicle. This loose equipment could strike an occupant in the event of a sudden stop or collision. Store all of these items in the proper place.

The following sections outline the procedure for changing a flat tire;

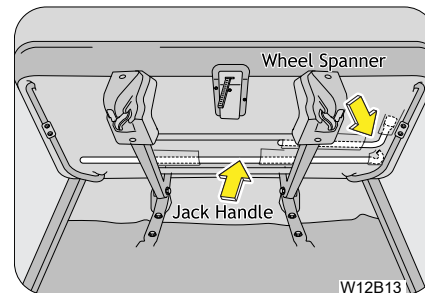
2.6.1 Jack/Wheel Spanner/Warning Triangle

The warning triangle is:

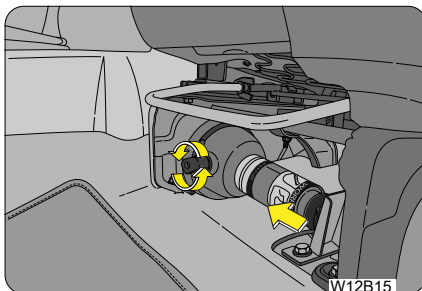
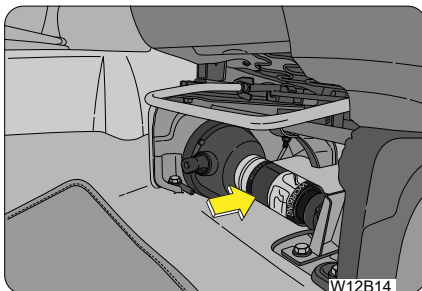
- placed in a pouch behind the 3rd row seat/seat back (for 8 seat — front facing, 7 seat — captain seat variants)
- under the RH jump seat (for 7/9 seat — side facing variants)

The wheel spanner and jack handle are:

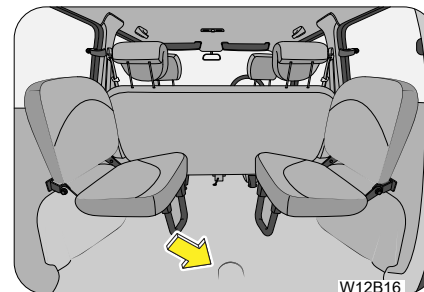
- strapped to the 2nd row seat bottom (for 7/9 seat — side facing variants)
- strapped to the 3rd row seat bottom (for 8 seat — front facing, 7 seat — captain seat variants)



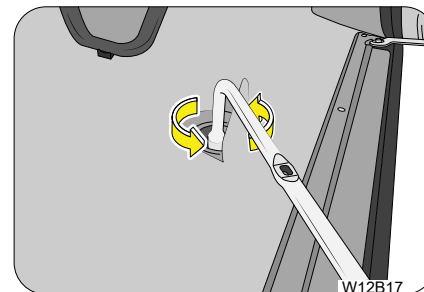
The jack is located under the co-driver's seat. Rotate the jack handle to reduce the jack height and lift the jack out.



- Locate the flap covering the securing nut below the rear luggage compartment floor carpet

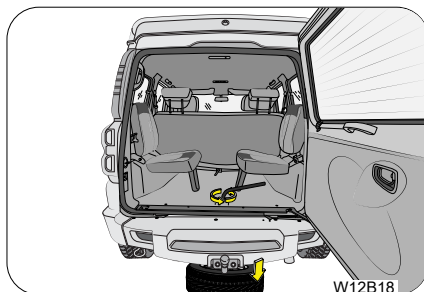


- Loosen the securing nut counter clockwise with a wheel spanner to winch down/lower the secured spare wheel to the ground

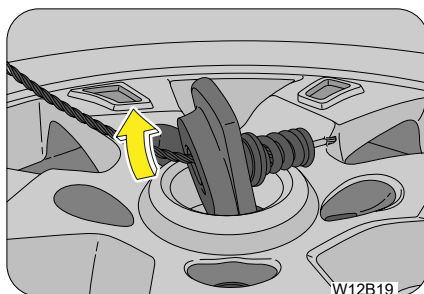


2.6.2 Spare Wheel Removal

The spare wheel is located below the floor at the rear end of the vehicle. It is held in place by a securing nut underneath the rear luggage compartment floor carpet.



- Tilt the securing bracket and remove it out of the spare wheel hub



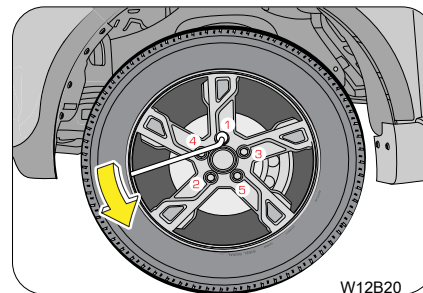
- Remove/pull away the spare wheel

2.6.3 Wheel Nut Loosening

Wrap the tip of a screw driver with cloth, insert it near the lugs of the wheel cap (if equipped) and pry the cap away from the wheel.

⚠ CAUTION

Do not try to pry off the wheel cap by hand alone. Take due care in handling the wheel cap to avoid unexpected personal injury.



Always loosen the wheel nuts before raising the vehicle. Turn the wheel nuts counter clockwise to loosen as per the sequence. To get maximum leverage, fit the spanner to the nut so that the handle is on the left side. Grab the spanner near the end of the handle and push down on the handle. Be careful that the spanner does not slip off the nut. Do not remove the nuts, but loosen them by one or two turns.

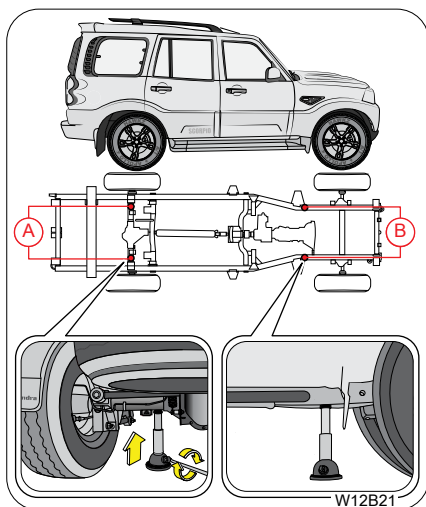
! CAUTION

Do not apply force with your legs (or stand) on the wheel spanner while loosening/tightening the wheel nuts.

2.7 Jack Points

Front jack up point - On the chassis long member just behind the front wheels.

Rear jack up point - Under the rear axle.



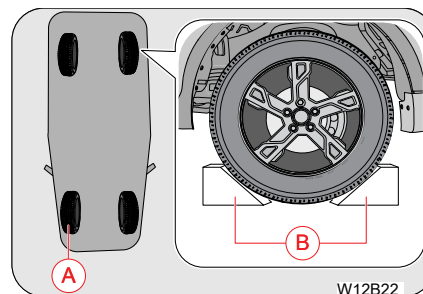
A Rear Jacking Points

B Front Jacking Points

2.7.1 Jacking

Position the jack at the correct jacking point. Make sure the jack is positioned on a level and solid ground. Ensure no one is in the vehicle.

Block the wheel diagonally opposite the flat tyre to keep the vehicle from rolling when it is jacked up. When blocking the wheel, place a wheel block in front of one of the front wheels or behind one of the rear wheels.

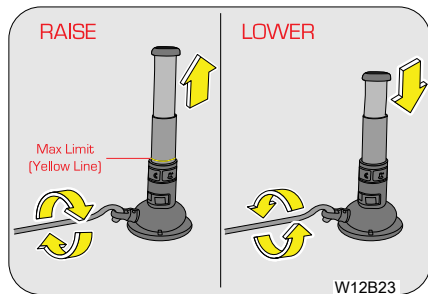


A Flat Tyre

B Chock Blocks

To raise the vehicle, insert the jack handle end along with the extension into the jack and turn it clockwise with the jack handle. As

the jack touches the vehicle and begins to lift, re-check that it is properly positioned. Raise it high enough ensuring the spare wheel can be installed, but not to raise up above the 'yellow' line. Remember you will need more ground clearance when putting on the spare tyre than when removing the flat tyre.



! CAUTION

Make sure to set the jack properly in the jacking point. Raising the vehicle with an improperly positioned jack will damage the underbody of the vehicle or may allow the vehicle to fall off the jack and cause personal injury.

- Use the jack only for lifting your vehicle during wheel changing
- Do not raise the jack with someone in the vehicle
- When raising the vehicle, do not place any objects on top of or underneath the jack

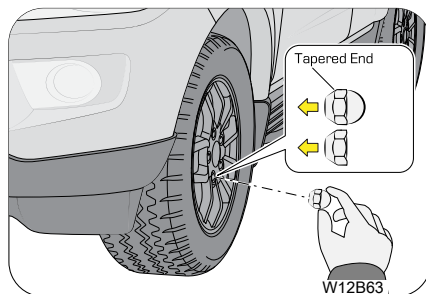
- *Raise the vehicle only high enough to remove and change the wheel*
- *Usable extended height of jack is up to the yellow line/mark. Do not raise the jack above the yellow line.*
- *Follow jacking instructions*
- *Do not start or run the engine while your vehicle is supported by the jack*

! WARNING

Never get under the vehicle when the vehicle is supported by the jack alone.

Remove the wheel nuts. Lift the flat tyre straight off and place it aside. Roll the spare wheel into position and align the holes in the wheel with the bolts. Lift up the wheel and get at least the top bolt started through its hole. Wiggle the wheel and press it back over the other bolts.

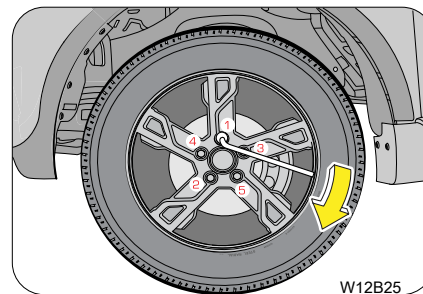
Re-install the wheel nuts with the tapered end inward and tighten by hand. Press the wheel inward and tighten the wheel nuts further.



⚠ WARNING

Never use oil or grease on the bolts or nuts. Doing so may lead to over tightening of the nuts, wheel nut spanner slip, damage the bolts and also may cause personal injuries. Also, nuts may loosen and the wheels may fall off, which could cause a serious accident. If there is oil or grease on any bolt or nut, clean before installing wheel nuts.

Lower the vehicle completely and tighten the diagonally opposite wheel nuts using the wheel nut spanner. Turn the jack handle extension counter clockwise using the jack handle to lower the vehicle, making sure the handle remains firmly fitted onto the jack handle extension. Make sure the wheel spanner is securely engaged over the nut. Tighten each nut a little at a time in the diagonally opposite order as shown. Repeat the process until all the nuts are tight. Do not use other tools or any additional leverage other than your hands, such as a hammer, pipe or your foot.



⚠ WARNING

Improperly or loosely tightened wheel nuts are dangerous. The wheel could wobble or come off. This could result in loss of vehicle control and cause a serious accident. Always make sure all the wheel nuts are properly/securely tightened to the specified torque.

When lowering the vehicle, make sure all portions of your body are clear off the vehicle as it is lowered to the ground. Have the wheel nuts tightened with the torque spanner to 120 Nm, as soon as possible after changing wheels.

⚠ WARNING

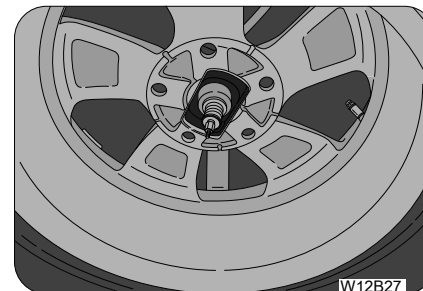
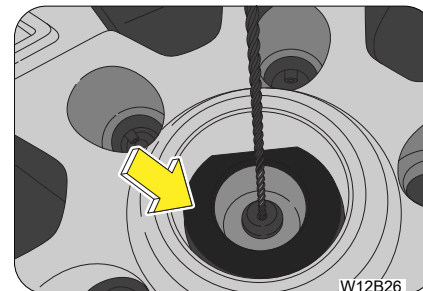
If you have rotated, repaired, changed your tyres or changed the wheel rims, check the wheel nuts are still tight after driving about 1,000 kms [Torque 120 Nm].

Put the wheel cap into position aligning the nozzle on the wheel to the nozzle clearance on the wheel cover. Tap it firmly on the sides with your hand to snap it into place.

Check the air pressure of the replaced tyre. If the pressure is lower than recommended, drive slowly to the nearest service station and inflate to the correct pressure. If it is too high, adjust it until it is correct. Always reinstall the valve cap after checking or adjusting tyre pressure. If the cap is not replaced, dirt and moisture could get into the valve core and cause air leakage. If you lose a valve cap, buy another and install it as soon as possible.

2.7.2 Restore the Tools, Jack and Flat Tyre Securely

Restore the tools and jack back to their respective locations. Align the spare wheel bracket to the centre hub of the wheel. Winch up the flat tyre to the floor at the rear of the vehicle. Firmly tighten the securing nut and put the floor carpet back. Double check to ensure the tyre is snug against the rear floor of the vehicle. The spare wheel bracket/cable may be damaged if the vehicle is driven with the spare wheel loosely mounted.



NOTICE

It is recommended to fix the flat tyre at the nearest tyre shop and swap the spare wheel back. The wheel balance and alignment differ from wheel to wheel which may lead to difference in steering and braking.



2.8 Technical Specifications

Technical Specifications		
ENGINE	mHawk 2.2L — 120HP	mHawk 2.2L — 140HP
Displacement/Cubic Capacity	2179 cc	
Type	4 Stroke, Turbocharged, Common Rail Direct Injection Engine	
Bore x Stroke	85.0 X 96.0 mm	
No of Cylinders	4	
Max. Engine Output (kW @ rpm)	88.26 ± 2% kW @ 4000 rpm	103 kW @ 3750 rpm
Max. Torque (Nm @ rpm)	280 Nm @ 1800 to 2800 rpm	320 Nm @ 1500 to 2800 rpm
CLUTCH		
Type	Single Plate, Dry Type	
TRANSMISSION		
Type	Synchromesh in all Forward Gears	
No. of Gears	5 Forward, 1 Reverse	6 Forward, 1 Reverse
GEAR RATIOS		
I	3.777 : 1	3.77 : 1
II	2.214 : 1	2.210 : 1

**Technical Specifications**

III	1.425 : 1	1.422 : 1
IV	1.00 : 1	1.00 : 1
V	0.791 : 1	0.790 : 1
VI		0.710 : 1
Reverse	3.559 : 1	3.553 : 1

TRANSFER CASE (4X4 ONLY)

Type	Electric Shift
Ratio	1 : 1 [High], 1 : 2.48 [Low]

AXLES

Front	2WD — Non-drive, Stub Axle 4WD — Full Floating, 4.3 : 1 [with Electric Disconnect]
Rear	Single Reduction Semi Floating Hypoid type 2WD - 4.3 : 1 4WD - 4.3 : 1

WHEELS & TIRES

Rim	6.5J x 17"
Tires	P235/65 R17 104H



Technical Specifications

STEERING

Type/Description	Rack & Pinion type, Hydraulic Power Steering.
Steering wheel diameter mm	380 mm

SUSPENSION

Front	Double Wish-bone type IFS
Rear	Multi Link Coil Spring Suspension
Shock Absorbers	Hydraulic, Double Acting, Telescopic

BRAKES

Service Brake	Hydraulic, Vacuum Assisted Servo, Front Disc, Rear Drum.
Front (Disc / Drum)	Disc
Rear (Disc / Drum)	Drum
Parking Brake	Internal Expanding type on rear wheels, Hand lever and cable type

FUEL

Fuel Capacity	60 liters



Technical Specifications

ELECTRICAL SYSTEM

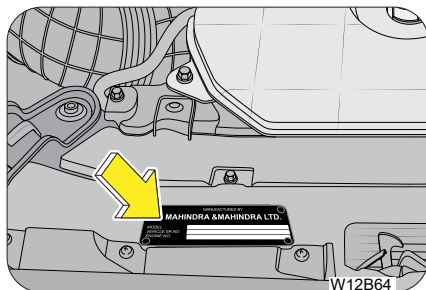
System Voltage

12V

Battery

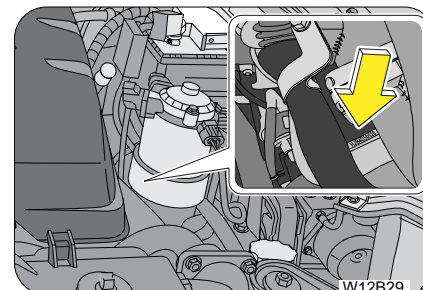
65 Ah OPT 72Ah

2.9 Vehicle Identification Number (VIN)



Vehicle Identification Number (VIN) is the legal identity of your vehicle. The vehicle identification number is stamped on the VIN plate riveted on to the top face of the cross member under the hood of the vehicle. The engine number is also stamped on the same plate.

2.10 Engine Number

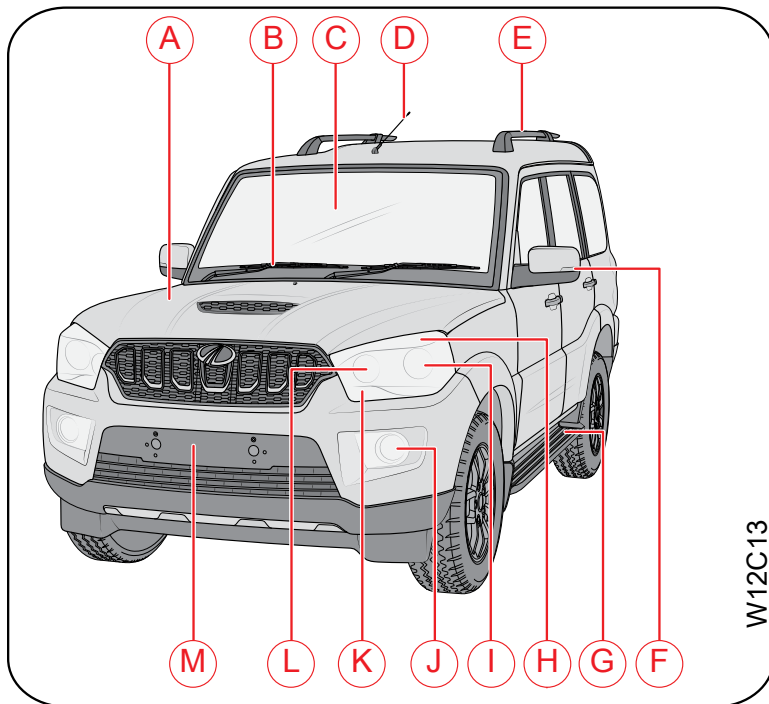


The engine number is punched on the LHS face of the crankcase adjacent to the water pump. The engine number is also stamped on the VIN plate near the bonnet release lever.



3 VEHICLE OVERVIEW

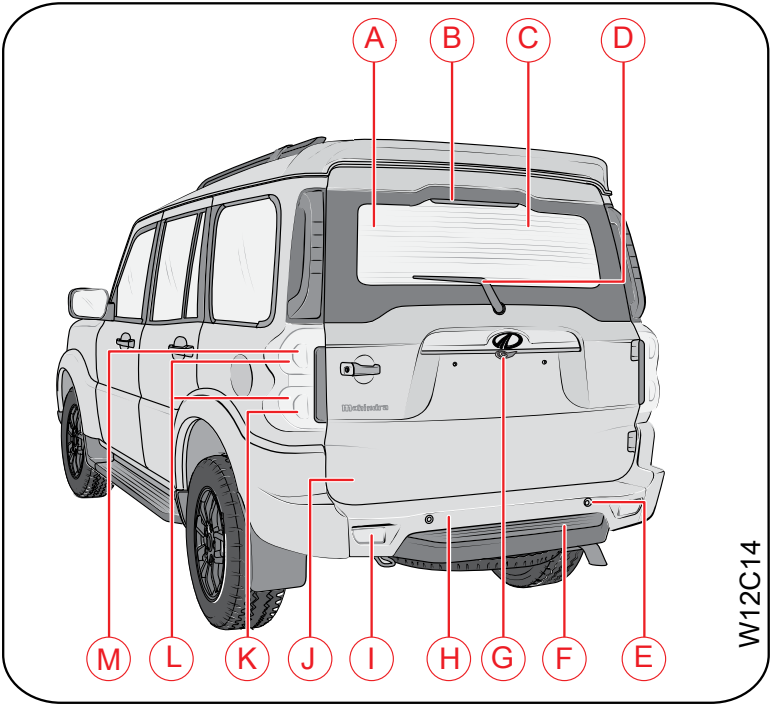
3.1 Front Overview



A	Hood
B	Front Wiper
C	Windshield
D	Antenna #
E	Ski Rail
F	ORVM
G	Footstep
H	Position Lamp#
I	Low Beam / Projector Lamp#
J	Fog Lamp#
K	Turn Indicator
L	High Beam
M	Front Bumper
# if equipped	



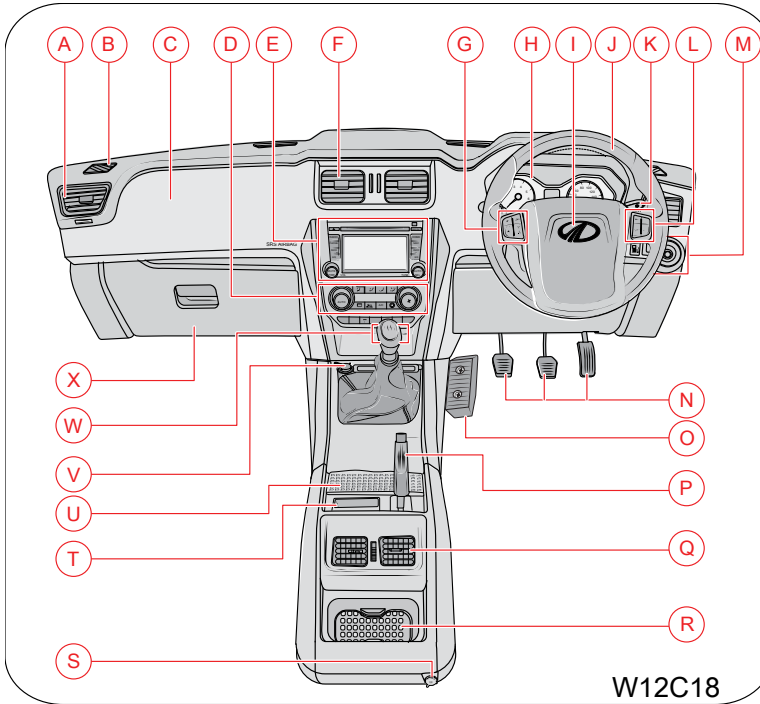
3.2 Rear Overview



A	Rear Windshield
B	High Mounted Stop Lamp#
C	Rear Windshield De-mister#
D	Rear Wiper#
E	Park Sensor #
F	Rear Footstep
G	Rear Camera #
H	Rear Bumper
I	Rear Reflector
J	Rear Door
K	Reversing Lamp
L	Rear Park Lamp/Brake Lamp
M	Rear Turn Signal Lamp
# if equipped	



3.3 Instrument Panel Overview



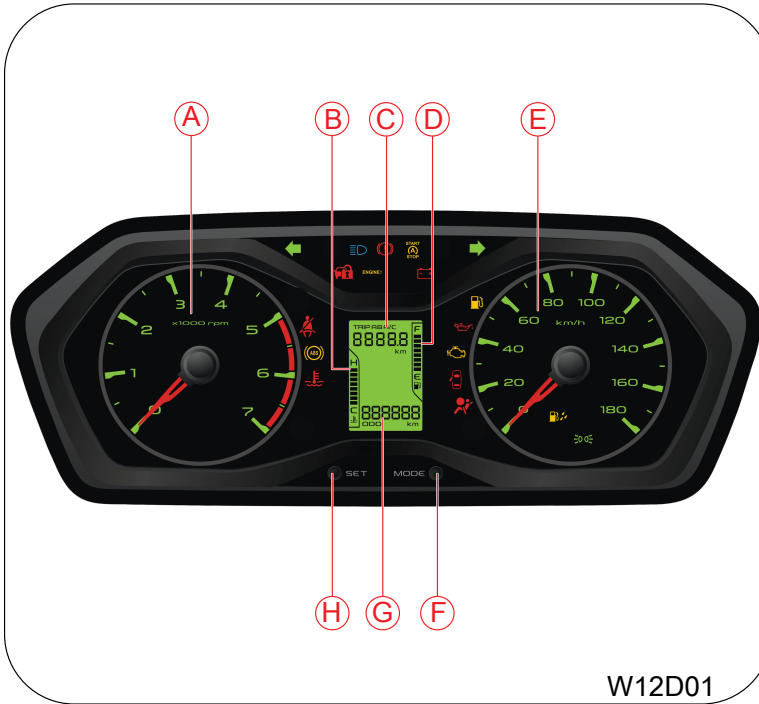
A	Side Vent	M	Head lamp Leveling Switch /ESS /Demister
B	Side Defrost Vent	N	Pedals — Clutch, Brake and Accelerator
C	Passenger Air-bag#	O	Foot Rest Pad
D	HVAC Controls	P	Parking Brake
E	Infotainment System#	Q	Rear AC Vents
F	Center Vents	R	Can Holder
G	Steering Controls — Audio#	S	Rear Power Socket
H	Instrument Cluster	T	Bottle Holder
I	Horn Pad/Driver Air-bag#	U	Mobile Mat
J	Steering Wheel	V	Front Power Socket
K	Light Stalk	W	Transmission Lever
L	Steering Controls — Cruise#	X	Glove Box

if equipped



4 INSTRUMENT CLUSTER OVERVIEW

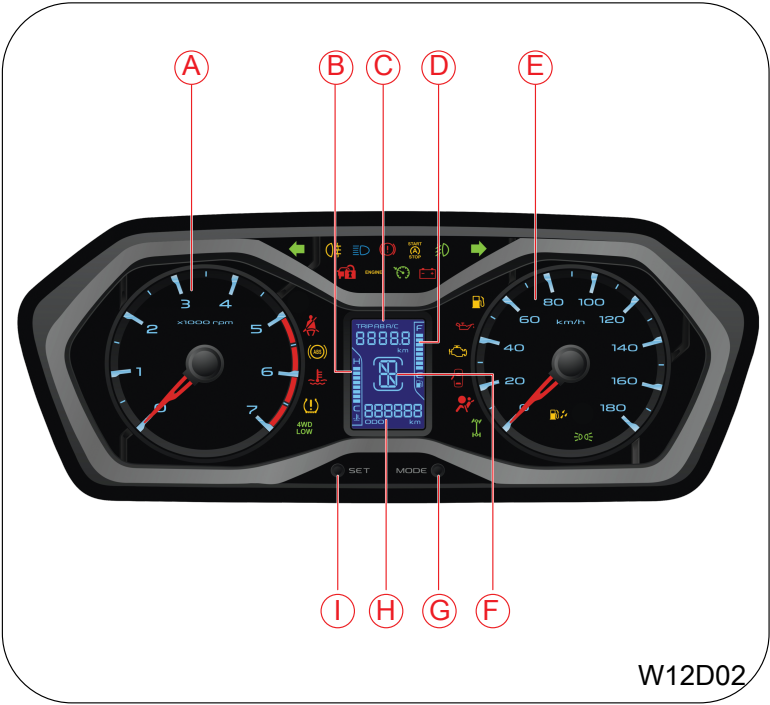
4.1 Instrument Cluster - Type 1



A	Tachometer / RPM Gauge
B	Temperature Gauge
C	Trip Meter
D	Fuel Gauge
E	Speedometer
F	Mode button
G	Odometer
H	Set Button



4.2 Instrument Cluster - Type 2



A	Tachometer / RPM Gauge
B	Temperature Gauge
C	Trip Meter
D	Fuel Gauge
E	Speedometer
F	Gear Indicator
G	Mode Button
H	Odometer
I	Set Button



4.3 Warning Lamps Overview



	Left Turn Indicator		Check Engine Lamp		Park/ Low Brake Fluid Lamp		Water in Fuel Warning Lamp
	Right Turn Indicator		Door Ajar Lamp		Security Lamp		Low Fuel Warning Lamp
	Headlamp High Beam		High Temperature Lamp		Battery Charge Lamp		Start/ Stop Lamp*
	Malfunction Lamp (OBD)		Low Oil Pressure Lamp		Seat Belt Warning Lamp		Parking Lamp
	Airbag Warning Lamp		ABS Warning Lamp		4WD High Lamp		4WD Low Lamp



To know more about warning & telltale lamps, download the handy “Scorio” app from Google playstore or Appstore



	Airbag Warning Lamp		Tiretronics		Cruise Control Indicator		Start/Stop Lamp*
	Left Turn Indicator		Check Engine Lamp		Park/Low Brake Fluid Lamp		Water in Fuel Warning Lamp
	Right Turn Indicator		Door Ajar Lamp		Security Lamp		ABS Warning Lamp
	Headlamp High Beam		High Temperature Lamp		Battery Charge Lamp		Low Fuel Warning Lamp
	Malfunction Lamp (OBD)		Low Oil Pressure Lamp		Seat Belt Warning Lamp		Parking Lamp
	4WD High Lamp		4WD Low Lamp		Front Fog Lamp		



To know more about warning & telltale lamps, download the handy “Scorpio” app from Google playstore or Appstore



4.4 Warning Lamps

The phenomenon of warning lamps flashing momentarily when ignition is turned ON is called pre-check. This is self check done by the cluster at every ignition ON.

Symbol	Warning Lamp/Tell Tale	Lamp Pre-check	Lamp Status	Action/Remarks
	Parking Brake ON/Brake Fluid Low Warning Lamp	Yes	Continuously ON	Either one of below conditions:- 1) Park brake might be engaged 2) Brake fluid level might be low Contact Authorized Mahindra Dealer immediately for assistance if the lamp is not turning OFF even after checking the above conditions
	Left Turn Indicators	No	Slow or Fast Blinking	Indicates left turn lamp is blinking Slow Blinking: Normal operation Fast Blinking: One /more left turn lamp bulb has fused. Have the bulb replaced
	Water in Fuel Filter Warning Lamp	Yes	Continuously ON	Indicates water in fuel filter. Drain the water from filter or contact an Authorized Mahindra Dealer for assistance
	Security Lamp	No	Slow or Fast Blinking	Slow Blinking: Vehicle armed and Immobilizer system active Fast Blinking: Once the ignition is turned OFF, security lamp will blink at fast rate frequency indicating vehicle is secured against unauthorized start of engine



Symbol	Warning Lamp/Tell Tale	Lamp Pre-check	Lamp Status	Action/Remarks
	Check Engine Lamp	For about 3 sec	Continuously ON or Blinking	There is a potential malfunction in the engine system, contact an Authorized Mahindra Dealer immediately
	High Coolant Temperature Warning Lamp	No	Continuously ON or Blinking	Engine temperature very high. Contact an Authorized Mahindra Dealer immediately
	Right Turn Indicators	No	Slow or Fast Blinking	Indicates right turn lamp is blinking Slow Blinking: Normal operation Fast Blinking: One / more turn signal lamp bulb has fused. Have the bulb replaced
	Head Lamp High Beam Indicator	No	Continuously ON	Indicates head lamp high beam is ON
	ABS Warning Lamp	For about 3 sec.	Continuously ON	Indicates malfunction of the ABS system. Contact an Authorized Mahindra Dealer immediately
	Airbag Warning Lamp	For about 3 sec.	Continuously ON	Indicates malfunction of the airbag system. Contact an Authorized Mahindra Dealer immediately
	Cruise Control Indicator	Yes	Continuously ON	Indicates vehicle is in cruise mode



Symbol	Warning Lamp/Tell Tale	Lamp Pre-check	Lamp Status	Action/Remarks
	Door Ajar Warning Lamp	No	Continuously ON	Indicates one or more doors are open
	Front Fog Lamp Indicator	No	Continuously ON	Indicates front fog lamp is ON
	Seat Belt Warning Lamp	No	Continuously ON	Indicates driver seat belt not fastened. If tell tale is not turning OFF even after fastening the driver seat belt, contact an Authorized Mahindra Dealer for assistance
	Low Fuel Warning Lamp	No	Continuously ON	The fuel level in the fuel tank is low. Re-fuel immediately to avoid empty tank
	Tiretronics Warning Lamp	No	Continuously ON or Blinking	Indicates low tyre pressure or possible malfunction in Tiretronics. Refer to the Tiretronics section in the FEATURES AND CONTROL/WHEELS AND TIRES chapter for further details
	Start/Stop Lamp*	No	Continuously ON or Blinking	Continuously ON: Engine is in auto stop mode Blinking: Stop/Start is about to stop the engine Fast Blinking: Stop/Start is inhibited due to unhealthy battery conditions
	4WD High	No	Continuously ON	Indicates transmission is in 4WD High

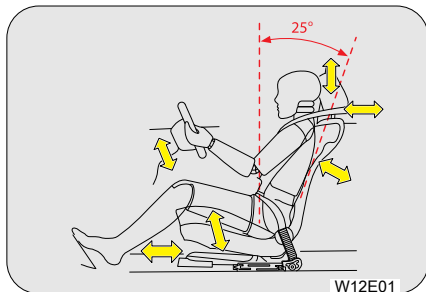


Symbol	Warning Lamp/Tell Tale	Lamp Pre-check	Lamp Status	Action/Remarks
	4WD Low	No	Continuously ON	Indicates transmission is in 4WD Low
	Malfunction Lamp (OBD)	Continuously ON till Engine Starts	Continuously ON	There is a potential malfunction related to emission control system, contact an Authorized Mahindra Dealer immediately
	Battery Charging Warning Lamp	Continuously ON till Engine Starts	Continuously ON	Indicates malfunction in the charging system. Contact an Authorized Mahindra Dealer for assistance
	Low Engine Oil Pressure Warning Lamp	Continuously ON till Engine Starts	Continuously ON	Indicates engine oil pressure is low. Check oil level and top-up or contact an Authorized Mahindra Dealer for assistance
*if equipped				

5 SEATS AND SEAT BELTS

5.1 Driver seat

5.1.1 Sitting in the Correct Position



Follow the tips below for a comfortable and safe journey;

- Sit in an upright position with the base of your spine pressed against the seat back
- Adjust the head restraint as close as possible to the above specified position, with the top of the head restraint even with the top of your head
- Maintain sufficient distance between yourself and the steering wheel. Maintain at least a ten inch {10"} distance from the centre of the steering wheel to your chest

- The top curve of the steering wheel should align with your chin for ideal road visibility
- Adjust your seat and seat back angle such that your wrists rest on top of the steering wheel freely
- Ensure your legs are in a bent position while fully depressing the clutch pedal

The seat should be adjusted while still maintaining control of the foot pedals, steering wheel and your view of the instrument panel controls.

WARNING

Never adjust the driver's seat while the vehicle is in motion. The seat may unexpectedly move and cause the driver to unintentionally operate the accelerator or brake, or turn the steering wheel, causing loss of control of the vehicle, an accident or serious personal injury. Adjust the driver's seat only when the vehicle is not in motion.

Never put objects under the seats. They may interfere with the seat-lock mechanism or unexpectedly activate the seat position adjusting lever, causing the seat to suddenly move, resulting in loss of control of the vehicle, an accident or serious personal injury.

While adjusting the seat, do not put your hands under the seat or near the moving parts. This may lead to injuries.

5.1.2 Front Seat Slide

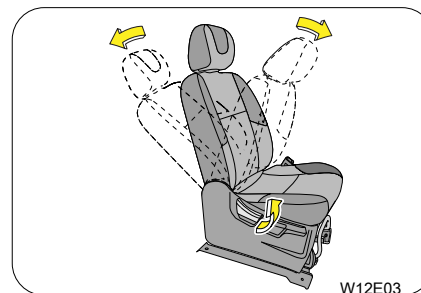


Move the seat forward or backward by lifting the adjustment lever located under the seat front and release once the desired position is reached.

CAUTION

While adjusting the seat, make sure the latch engages fully and the seat is locked firmly in the desired position. An unlocked seat may move in a sudden stop or collision, causing injury to the person in that seat. Push and pull on the seat to be sure it is locked.

5.1.3 Front Seat Recline



To adjust the seat back, lift the lever located on the outboard side of the seat, lean back, and release the lever at the desired position. To return the seat back, lift the lever, lean forward, and release the lever.

WARNING

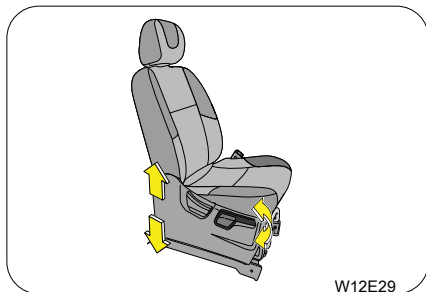
The seat belts provide maximum protection in a frontal or rear collision when the occupants are sitting up straight and well back in the seats. If you are reclined, the lap belt may slide past your hips and apply restraint forces directly to the abdomen, or the shoulder strap may contact your neck. The more the seat is reclined, the greater the risk of serious injury.



⚠ CAUTION

When returning a extremely reclined seat back to its upright position, make sure you support the seat back while operating the lever.

5.1.4 Driver Seat Height Adjust (if equipped)



Lift/Push the seat height adjustment lever located on the outboard side of the driver seat to raise/lower the seat. Adjust the seat height such that you can depress the clutch pedal completely.

⚠ WARNING

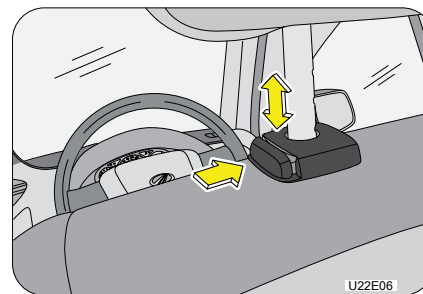
It is recommended to adjust the seat height only when the vehicle is stationary.

5.2 Head Restraint

5.2.1 Adjustable Head Restraint

The head restraint comprises of the padded portion which contacts your head and is inserted/locked in receptacles on the top of the seat back.

Your vehicle seats are equipped with head restraints which are vertically adjustable. The purpose of these head restraints is to help limit head motion in the event of rear collision.



Always align top of the head restraint with the top of your head or as close to it as possible. To raise the head restraint, press the lock knob and pull the restraint up. To lower the head restraint, press the lock knob and push the head restraint down.



5.2.2 Removing Seat Head Restraint

The head restraint can be pulled out completely by depressing the locking button while pulling the restraint out.

5.2.3 Installing Seat Head Restraint

Align the head restraint shafts over the holes on the seat top and push the restraint straight down till you hear the lock click.

Keep the seat back as upright as possible so the headrest is behind, not beneath, and almost touching your head.

WARNING

Never drive with the head restraints not properly adjusted, head restraints removed or inserted in a flipped condition. With no support behind your head, your neck could be seriously injured in a collision.

NOTICE

Head restraints are provided for the front row and second row outboard occupants.

5.3 Second Row Bench Seat

WARNING

Loading cargo on the seats is dangerous. The cargo becomes a projectile that could hit and injure passengers in a sudden stop or collision. Cargo should always be kept on the floor.

Seat Folding

The second-row seat can be flipped forward to provide more cargo space.

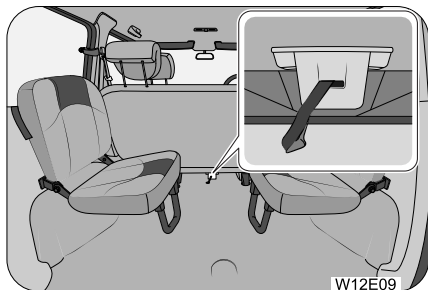
1. Lower the second-row seat head restraint to the lowest position
2. Recline and fold down the seat back (refer previous section for reclining the seat back)



3. Pull the strap behind the seat to unlock and lift the seat base to vertical position



4. To keep the seat in vertical folded position, hook the seat to the front seat head restraint rod with the holding strap kept in the small pocket in the seat bottom. Tighten the holding strap to securely hold the seat to the head restraint



Unhook the strap, when the seat needs to be unfolded and put the strap back in the pocket. Swing the whole seat-back down to lock the latch. Ensure the seat is locked.

! CAUTION

A seat not secured with a holding strap is dangerous. Ensure that the stowed seats are secured with the holding straps. The holding strap and hook is kept in the pocket under the seat. Return the seat back to its position in one continuous motion to securely lock the seat and in turn avoiding the seat flipping forward suddenly leading to injuries. If this happens, release the seat lock by pulling the lever and repeat the procedure. Be cautious when placing your hands around the seat anchors.

You could pinch your hands or fingers between the seat anchor and the seat. Hold the edge of the seat when lowering it into place. Never place your hands between the seat anchor and the seat.

5.4 Second Row Seat 60:40

The second row seat has a optional 60:40 split with individual folding option.



Seat Slide

Lift the seat lock lever under the respective seat and push/pull on the seat to adjust as per convenience.



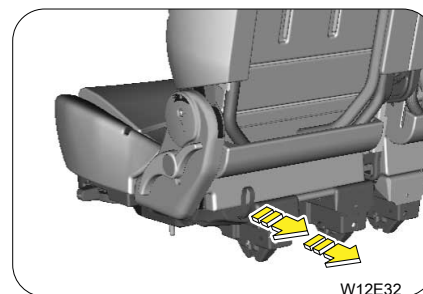
Seat Recline & Double Fold

Follow the below steps to recline and double fold the seat.

1. To change the seat back angle, lean forward slightly while raising the recline lever on outboard side of the seat, lean back to the desired position and release the recline lever. Make sure the recline lever returns to its original position and the seat back is locked in place by attempting to push it forward and backward. To fold, lower the seat back completely down



2. Unlock the seat by the seat unlock lever located on the outboard side under the seat. Alternatively, third row passengers can unlock the seat by the strap behind the second row seat





3. Stack the seat up vertically against the first row seat. To keep the seat in vertical folded position, hook the seat to the front seat head restraint rod with the holding strap kept in small pocket in the seat bottom. Tighten the holding strap to securely hold the seat to the head restraint

5.5 Second Row Captain Seat Arrangement



The second row captain seat is similar to that of the front passenger seat and provides adequate space and enhanced comfort. You can recline or fold the individual seats as required which will help in ingress to the third row front facing seat.

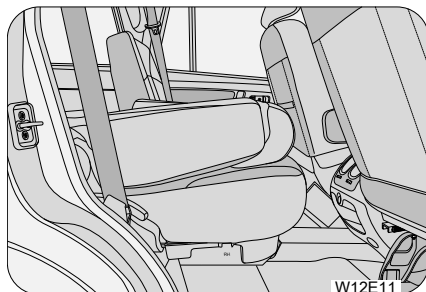
Seat Recline

To change the seat back angle, lean forward slightly while raising the recline lever on outboard side of the seat, lean back to the desired position and release the recline lever. Make sure the recline lever returns to its original position and the seat back is locked in place by attempting to push it forward and backward.

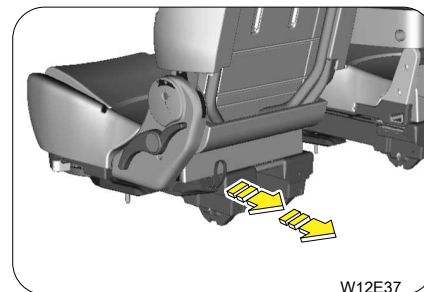
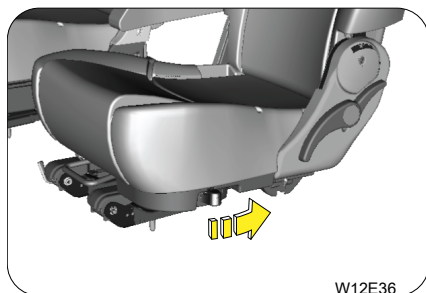


Seat Fold

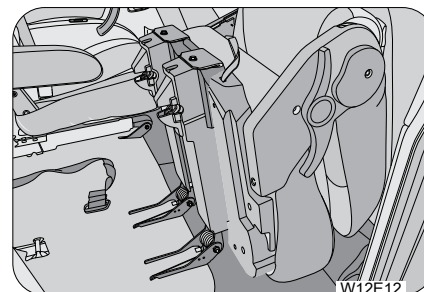
1. Lower the seat back down completely (refer to previous section for seat recline)



2. Unlock the seat by the seat unlock lever located on the outboard side under the seat. Alternatively, third row passengers can unlock the seat by the strap behind the second row captain seat



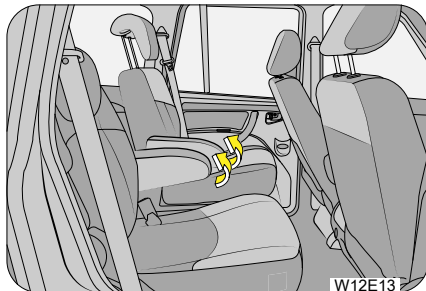
3. Lift the seat up and stack it vertically



4. To keep the seat in vertical folded position, hook the seat to the front seat head restraint rod with the holding strap kept in the small pocket in the seat bottom. Tighten the holding strap to securely hold the seat to the head restraint



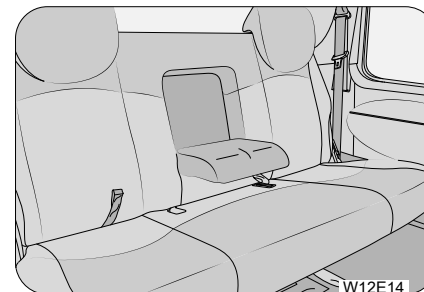
5.6 Foldable Arm-Rests



Front and middle seats (Captain Seats only) are provided with individual foldable arm rests.

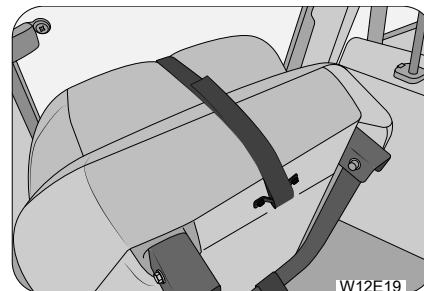
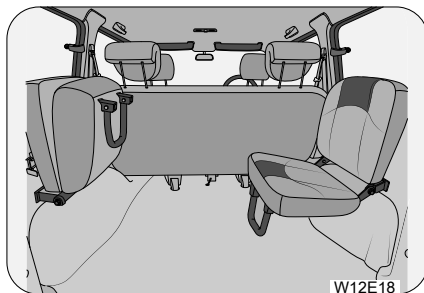
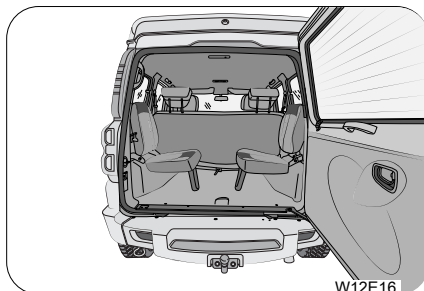
5.7 Third Row Seats

5.7.1 Third Row Front Facing Type (if equipped)



The third row seats have a centre armrest and can be folded as required to maximise cargo space. Access to or exit from the third row seat is possible by completely double folding the second row seat.

5.7.2 Third Row Side Facing Type (if equipped)



The third row side facing jump seats can be folded to maximise cargo space.

- Swing the seat cushion fully up
- Fold the seat leg completely down
- Secure the seat by the Velcro strap provided on the back of the seat cushion

5.8 General Warnings and Instructions- Seat Belts

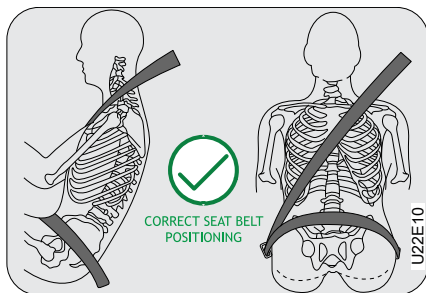
At least once each month, inspect the seat belt webbing for any cuts, tears, or other signs of wear (such as fraying along the edges). Also inspect the anchors, retractors, and buckles to be sure they are tight and operational.

- All occupants, including the driver, should always wear their seat belt no matter how short the trip in order to minimize the risk of severe injury in the event of a crash. In an accident, an un-belted

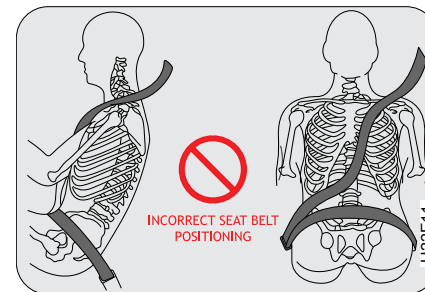


passenger becomes a projectile, and can cause serious injury to himself or another passenger.

- In a rollover crash, an un-belted person is significantly more likely prone to Injury than a person wearing a seat belt
- In order to be properly buckled, you must always sit up straight and keep your feet on the floor in front of you. The lap part must be worn low and tight across your hips, just touching the top of your thighs. While fastening the seat belt, the shoulder strap of the seat belt must pass over your chest and top of your shoulder. It must never touch your neck, face, the side of your shoulder, arm, or pass under your arm. The belt must always be flat against your body and not twisted in any way. Nothing, such as an arm rest, a pocketbook, or any external objects should be between you and the seat belt. *Improper wearing* of a seat belt will reduce the protection in an *accident*.
- Seat belts should be adjusted as tightly as possible, consistent with comfort to properly secure the wearer in the seat.



- The seat belts provided for your vehicle are designed for people of adult size, must be properly used and maintained.
- For usage of adult seat belt to secure children refer to section on manual for child seat positions and use a child restraint systems



- Passengers should not move out of or change seats while the vehicle is moving. A passenger who is not wearing a seat belt can be thrown against the inside of the vehicle, against other occupants, or out of the vehicle during a crash or emergency stop
- Do not use any accessories on seat belts or modify in any way the seat belt system. Devices claiming to improve occupant comfort or reposition the seat belt can reduce the protection provided by the seat belt and increase the chance of serious injury in a crash

- An accident or emergency stop, can damage your seat belt system, even if the accident is “minor”. Please have your Authorized Mahindra Dealer inspect the seat belt system after an accident
- Please be aware that any unsecured item in your vehicle, such as your pet, unsecured child restraint system, a laptop or mobile phones, can become a projectile in the event of an accident or sudden stop, causing injuries to occupants in the vehicle

WARNING

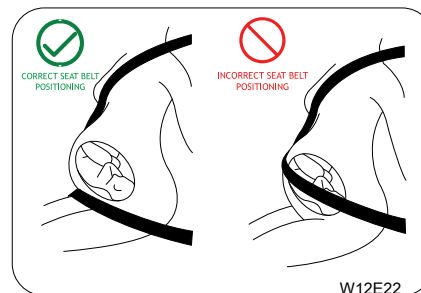
Never use a damaged seat belt system. A damaged seat belt will not provide protection in an accident, resulting in serious injury.

- Seat belt systems can be prone to abuse. They are not indestructible. They must be handled with care to avoid damage
- Keep the belts clean and dry. Belt retraction may become difficult if the belts and webbing are soiled. If they need cleaning, use a mild soap solution or lukewarm water. Never use bleach, dye, or abrasive cleaners. These chemicals will severely weaken the belts
- Retractors in 3-point type seat belts retract the seat belts when not in use. The inertia lock and coil spring allow the belts to remain comfortable on users during normal driving. During accidents or abrupt stops, inertia locks restrict the sudden forward movement of the wearer

Seat Belts - Patients

Persons with serious medical conditions should also wear a seat belt. Consult your doctor for specific recommendations before travel.

Seat Belts - Pregnant Women



Pregnant women must also wear seat belts. Consult your doctor for specific recommendations.

The lap belt should be worn snugly and as low as possible over the hips. The shoulder belt should be worn across your shoulder, but never across the stomach area. When worn properly, the seat belt will protect both the mother and the foetus in an accident or emergency stop.

**⚠ WARNING**

A pregnant woman should never wear the seat belt across the stomach area. This could lead to serious injuries to the foetus and/or the pregnant mother.

⚠ WARNING

Never wear twisted seat belts. Excessive forces will be transferred from the belt to the wearer, in a collision, resulting in serious personal injury.

Each seat belt is meant for use by one person only. Using one seat belt for more than one person at a time is dangerous. The seat belt will not be able to spread the impact forces properly leading to serious injuries.

⚠ WARNING

Never put a belt around a child being carried on the occupant's lap. This could lead to serious injuries.

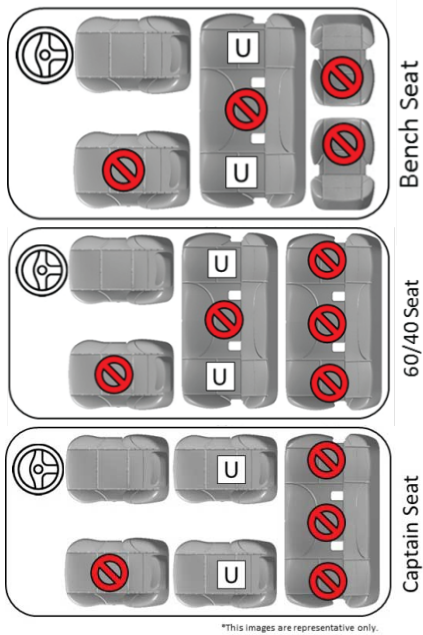
Seat Belt Usage is Necessary to:

- Reduce the possibility of being thrown from your vehicle
- Reduce the possibility of injuries to upper body, lower body and legs during an accident
- Hold the driver in a position which allows better control of the vehicle

Children who are too large for child restraint systems should always occupy the rear seat and use the vehicle seat belts. The lap portion should be fastened snug on the hips and as low as possible and the shoulder strap should be across the child's shoulder, not the neck or face. If you are unable to position the strap across the child's shoulder, the child should remain in a booster seat. Frequently check the seat belt to be sure it remains snug and in position. A squirming child could cause the seat belt to come out of position.



5.9 Child Restraint System (CRS)



*This images are representative only.

Always secure a child in a proper Child Restraints System in accordance with age and size of the child as recommended by the child restraint system manufacturer. Be sure to follow the Child

Restraint System (Child seat) manufacturer's instructions for seat belt routing.

WARNING

Do not allow children to stand up or kneel on either the rear or the front seats. An unrestrained child could suffer serious injuries during emergency braking or collision.

Legend:

U – Suitable position for using universal child restraint system using seat belt and buckles marked with ‘ C R S ’.

Ø – Not Suitable position for using child restraint system using seat belt.

Mass Group	Weight of Child (kg)	Fitting the child restraints system using seat belt
Group 0	0-10	Rear-facing child restraint system on the outboard 2nd row seats using seat belt.
Group 0+	upto 13	
Group 1	9-18	Forward-facing child restraint system on the outboard 2nd row seat using seat belt.
Group 2	15-25	
Group 3	22-36	



6 SUPPLEMENTAL RESTRAINT SYSTEM (SRS) (if equipped)

6.1 Airbags

Your vehicle has the following airbags:

- A frontal airbag for the driver
- A frontal airbag for the front passenger (if equipped)

Airbags are located in:

- The steering wheel hub
- The passenger side instrument panel

They are indicated by "SRS AIRBAG" embossed on the covers.

NOTICE

An airbag is not designed to deploy in every type of crash. Depending on the type of accident or impact, the front airbags independently deploy thereby protecting the occupants. It is not necessary that ALL the airbags deploy during an accident.

To minimize the risk of severe injury in the event of a crash, every passenger must always wear their seat belt (see the chapter on Seat Belts in this manual). The airbags inflate very quickly with great force. Do not position any part of your body too close to a airbag, you or especially children could be seriously injured/killed by a deploying airbag.

6.2 Introduction

The Supplemental Restraint System (SRS) includes airbags, pre-tensioners and ECU. The airbags are designed to provide further protection to the vehicle occupants in addition to the primary protection provided by the seat belts and seat belt pre-tensioners.

The primary components of the system are the sensors which measure the crash severity. In the event of a significant frontal impact, the SRS airbags inflate to work in conjunction with the seat belts and help reduce injuries mainly to the driver's or front passenger's head/chest.

NOTICE

Seat belts are the primary restraint system in the vehicle. An airbag provides supplemental protection in addition to the seat belts.

All occupants, including the driver, should always wear their seat belts irrespective of presence of airbags to minimize the risk of severe injury in the event of a crash.

Airbags are more effective in reducing injuries when the seat belts are worn.

6.2.1 Driver and Front Passenger Air Bag

Your vehicle is equipped with a Supplemental Restraint System (Airbag) and lap/shoulder belts at both the driver and front



passenger seating positions. The indications of the system's presence are the letters "SRS AIR BAG" embossed on the airbag pad cover in the steering wheel and the passenger's side front panel pad above the glove box.

The SRS is designed to deploy the front airbags only when an impact is sufficiently severe and when the impact angle is less than $\pm 30^\circ$ from the forward longitudinal axis of the vehicle.



W12F01



W12F02

Front airbags are not intended to deploy in side-impact, rear impact or rollover crashes. In addition, front airbags will not deploy in frontal crashes which are below the prescribed deployment threshold where risk of serious injuries is low.

⚠ NOTICE

Do not place any objects over the airbag or between the airbag and yourself.

6.2.2 Airbag System Malfunction Lamp



Airbags do not require any regular maintenance of service. The airbag system malfunction lamp illuminates when the ignition is ON, and it turns OFF after about two seconds as self check confirming normal operations of airbag system and malfunction lamp.

This lamp monitors airbag sensor assembly, airbag sensors, indicator lamp, seat belt pre-tensioner assemblies, inflators, interconnecting wiring and power sources.

If either of the following conditions occur, there is a malfunction of the airbags or seat belt pre-tensioner. Immediately contact your Mahindra Dealer.

- The lamp does not glow when the ignition is switched ON or glows beyond six (6) seconds after switching the ignition ON
- The lamp comes ON at any other time, even briefly



- The lamp comes ON intermittently

NOTICE

Never make any modifications to your vehicle which could affect the performance of your airbag system. In particular, changes to the vehicle frame, bumpers, bull bar, front fenders, ride height, suspension, seat belts, interior trim, seats or steering wheel (especially covers, pads or other trim), could prevent proper deployment of the airbag. If you need to make any modifications to accommodate any disability you may have, please contact your Authorized Mahindra Dealer.

Never try to open or strike the airbag cover. If the airbag cover is cracked or damaged in any way, the airbag may not function as intended. Take the vehicle to an Authorized Mahindra Dealer.

Even if the airbags do not deploy during an accident, take your vehicle to an authorized Mahindra Dealer for a thorough inspection of the airbag and seat belt systems, no matter how minor the accident. The airbag system could have been damaged, and may not work as intended in the future, resulting in serious injury.

6.2.3 Airbag Inflation/Deployment

The airbag sensors constantly monitor the forward deceleration of the vehicle. If an impact results in a forward deceleration beyond the designed threshold level, the system triggers the airbag inflators. This initiates a chemical reaction which quickly fills the airbags with non-toxic gas.

Upon deployment, tear seams molded directly into the pad covers separate under pressure from the expansion of the airbags. Further opening of the covers allows full inflation of the airbags. A fully inflated airbag, in combination with a properly worn seat belt, slows the driver's or the passenger's forward motion, reducing the risk of head and chest injury.

After complete inflation, the airbag immediately starts deflating, enabling the driver to maintain forward visibility and the ability to maneuver or operate other controls.

Deployment of the airbags happen in a fraction of a second, producing a loud noise releasing a 'white smoke' and residue along with a non-toxic gas. This does not indicate a fire. This smoke may remain inside the vehicle for some time, and may cause some minor irritation to the eyes, skin or breathing. Be sure to wash off any residue with soap and water as soon as possible to prevent any potential skin irritation. If you can safely exit the vehicle, you should do so immediately.



⚠ WARNING

- Do not modify, remove, strike or open the seat belt pretensioner assemblies, airbag sensor or surrounding area or wiring. Failure to follow these instructions may prevent them from activating correctly, cause sudden operation of the system or disable the system, which could result in serious injury
- Parts of the airbag module (steering wheel hub, airbag cover and inflator) may be hot for several minutes after deployment. The airbags inflate only once
- Do not cover the steering wheel, instrument panel, seats with any object (e.g. dash panel covers, seat covers) which may prevent the airbags from inflating properly
- The airbags inflate with considerable force. While the system is designed to reduce serious injuries, primarily to the head and chest, it may also cause other, less severe injuries to the face, chest, arms and hands. These are usually in the nature of minor burns or abrasions and swelling, but the force of a deploying airbag can also cause more serious injuries, especially if an occupant's hands, arms, chest or head is in close proximity to the airbag module at the time of deployment. Sit straight and well back into the seat. Move your seat as far back as practical to allow room for airbag inflation, while still allowing you to properly operate/drive the vehicle

⚠ WARNING

The front passenger should never sit on the edge of the seat, stand near the glove compartment, rest feet or other parts of the body on the dashboard when the vehicle is moving.



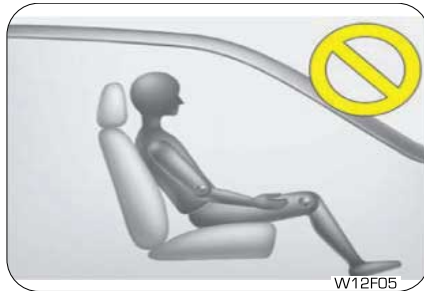
⚠ WARNING

The driver or front passenger who is too close to the steering wheel or dashboard can be seriously injured during airbag deployment.

- The driver must sit as far back as possible from the steering wheel while still maintaining control of the vehicle
- The front passenger must sit as far back as possible from the dashboard
- Sitting improperly or out of position can cause occupants to be shifted too close to a deploying airbag, strike the interior



structure or be thrown from the vehicle resulting in serious injury



 WARNING

- Always sit upright with the seat back in an upright position, on the seat cushion centre with your seat belt on, legs comfortably extended and your feet on the floor

- All vehicle occupants must be properly restrained using the seat belts
- All infants and children must be placed in the rear seat of the vehicle in a child restraint seat and be properly restrained by seat belts
- Front airbags can injure occupants improperly positioned in the front seats
- Even with airbags, improperly belted and unbelted occupants can be severely injured when the airbag inflates. Always follow the precautions about seat belts, airbags and occupant safety contained in this manual
- Do not modify the front seats. Modification of the front seats could interfere with the operation of the supplemental restraint system or side impact airbags
- Do not place items under the front seats. Placing items under the front seats could interfere with the operation of the supplemental restraint system sensing components and wiring harnesses



6.2.4 Child Restraint and Airbag



Never place a rear-facing child restraint in the front passenger's seat. If the airbag deploys, injuries to the child may be fatal.

In addition, do not place front-facing child restraints in the front passenger's seat either. If the front passenger airbag inflates, it could cause serious or fatal injuries to the child.

DANGER

Extreme Hazard! Do not use a rear facing child restraint on a seat protected by an airbag in front of it!

Never put a child restraint in the front passenger's seat. If the front passenger airbag inflates, it can cause serious or fatal injuries.

Never hold an infant or child on your lap. The infant or child could be seriously injured in the event of a crash. All infants and

children should be properly restrained in appropriate child safety seats or seat belts in the rear seat.

Install the child restraint system on the rear outboard seats, and securely lock the child restraint system in position.

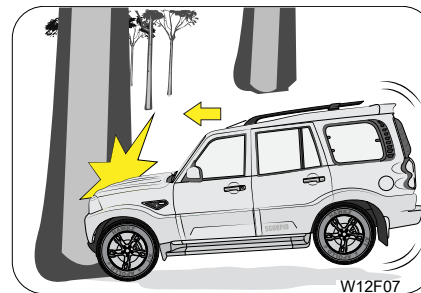
Always Buckle Children (ABC) in the back seat. It is the safest place for children of any age to ride.

6.2.5 Airbag Deployment

NOTICE

The images shown in this section are for illustrative purpose only. They may not look like your model/variant or vehicle.

Front Air bag's



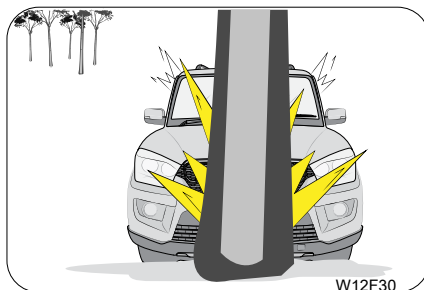


Front air bags are designed to inflate in a frontal collision depending on the intensity, speed or angles of impact of the front collision.

Airbag Non-deployment

Impacts below a pre-determined threshold level may not cause the airbag's to deploy in the following cases:

- **Collision with Utility Poles or Trees -**

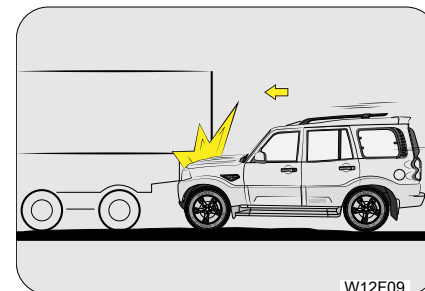


Air bags may not inflate if the vehicle collides with objects such as utility poles or trees, where the point of impact is concentrated to one area and the full force of the impact is not delivered to the sensors.

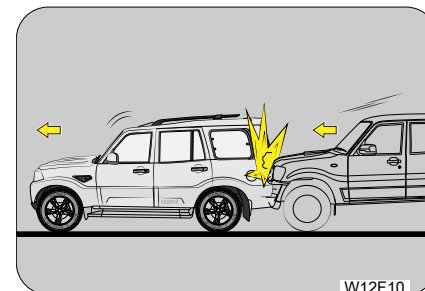
- **Under-ride Situations -**

Running under a truck's tail gate may not provide the decelerations necessary for airbag deployment. Just before impact, drivers often brake heavily. Such heavy braking lowers the front portion of the vehicle causing it to "ride" under a vehicle

with a higher ground clearance. Air bags may not inflate in this "under-ride" situation where deceleration forces that are detected by sensors may be significantly reduced by such "under-ride" collisions.



Rear-end Collisions -

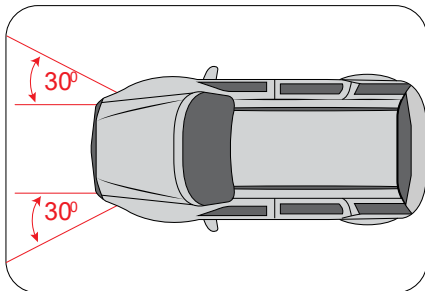


Frontal air bags are not designed to inflate in rear collisions, where occupants are moved backward away from the airbags by

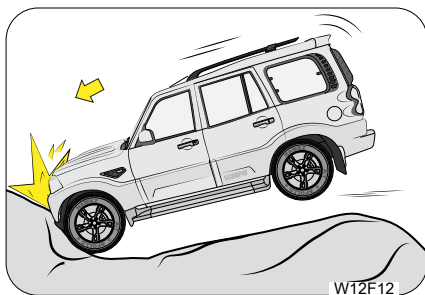
the force of the impact. In this case, inflated air bags would not be able to provide any additional benefit.

- **Frontal Impact -**

Frontal impact beyond 30° range from head-on to the vehicle.

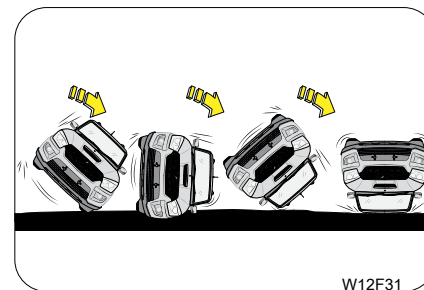


- **Pot Holes or Stepped Surfaces -**



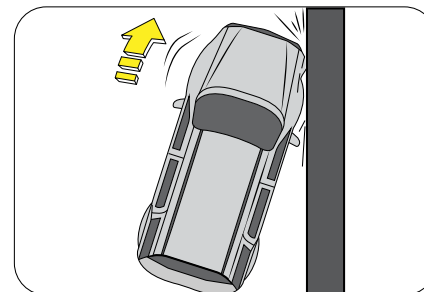
Driving into a big pot-hole, stepped surface or hitting the far side of a hole/incline will not inflate the airbag.

- **Rollover -**



Air bags will not inflate in rollover accidents where air bag deployment would not provide protection to the occupants.

- **Frontal Side Swipe Impact -**





Frontal offset impact to the vehicle may not provide the deceleration force necessary for airbag deployment. In an angled collision, the force of impact may direct the occupants in a direction where the air bags would not be able to provide any additional benefit, and thus the sensors may not deploy any air bags.

6.2.6 Airbag Replacement

Self-servicing or tampering with the airbag system is dangerous. An airbag could accidentally deploy causing serious injuries, or will not deploy when there is a need. Always take your vehicle to an authorized Mahindra dealer for inspection and repairs.

6.2.7 Self Removing SRS Related Parts

Self removing the instrument panel, steering wheel, seats or airbag related parts or sensors is not recommended. Airbags could accidentally activate and cause serious injuries, or they may not deploy when there is a need. Visit an authorized Mahindra dealer if these parts must be removed.

6.2.8 Airbag Disposal

Improper disposal of an airbag or a vehicle with live airbags can be extremely dangerous. Approach an authorized Mahindra dealer to do these jobs.

6.2.9 Airbag Repair

If the front airbag cover or IP airbag cover shows signs of damage or having been removed, the vehicle should be towed to the nearest authorized Mahindra dealer for repair. Do not attempt to self repair or reinstall the cover.

6.2.10 Airbag Maintenance

For cleaning the airbag covers/areas, use only a soft dry cloth or one which has been moistened with plain water. Solvents or cleaners could adversely affect the airbag covers and proper deployment of the system.



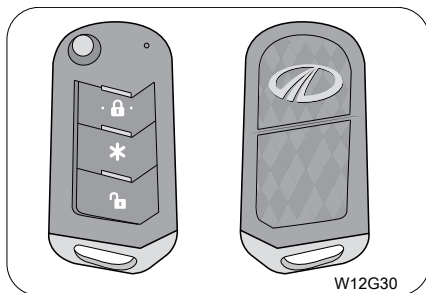
7 LOCKS AND KEYS

7.1 Locks and Keys

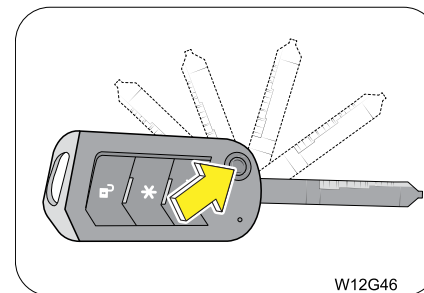
A Word About Your Keys :

Scorpio comes with two types of keys based on the model/variant;

- **Remote Keyless Entry (RKE):** One RKE is provided with your vehicle
- **Key without Remote:** Two normal keys are provided along with your vehicle. You can insert the key into the ignition with either side up



To open the key blade from key fob press the button as shown in the image



Key Number Tag:

Your key number is shown on the plastic tag attached to the key. It is recommended that you record the key number and store in a safe place. The keys operate all locks in your vehicle including those of the doors and ignition with steering lock. We advise you to keep one of these keys in a safe place for emergency use, but not in the vehicle. Should you lose your keys or if you need replacement keys, they can be ordered through an Authorized Mahindra Dealer.

! NOTICE

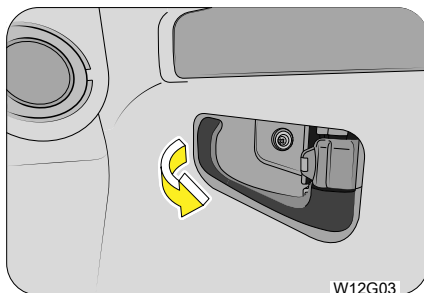
There is a limitation [max 2 keys at a time] to the number of keys that can be programmed. The minimum time frame required to supply the duplicate keys is 20 days after all the

formalities are completed. Please contact the dealer to understand the formalities involved.

⚠ WARNING

Never leave the key in the ignition switch with children in the vehicle. A child could switch on the ignition, start the engine, operate power windows and other controls, or move the vehicle, resulting in personal injuries to bystanders and/or children seated inside.

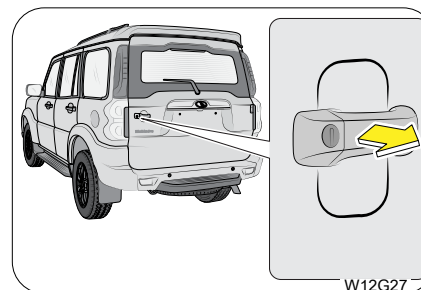
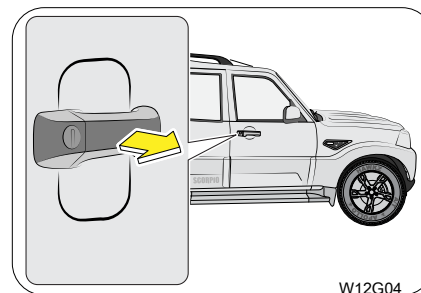
To Open a Door from Inside:

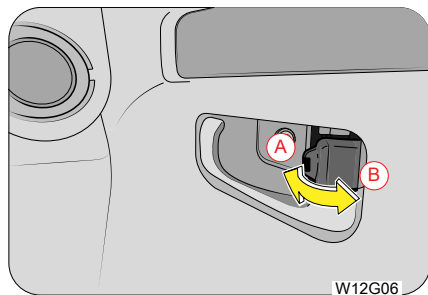


Pull the door lever away from the door and push the door outward to open.

To Open a Door from Outside:

Pull the door handle firmly outwards to unlock and swing the door open.



**Locking/Unlocking Individual Doors from Inside :**

A

Lock

B

Unlock

Individual doors can be locked/unlocked from inside by the respective door lock tabs.

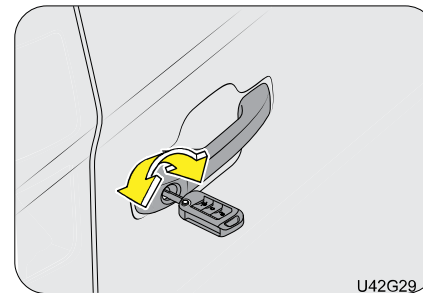
Pull the lock tab outwards to unlock or press the tab inwards to lock that particular door.

⚠ NOTICE

Locking the driver door from inside activates the central locking system (if equipped), thereby locking ALL the doors of the vehicle. Refer to the 'Central Locking' section for further details.

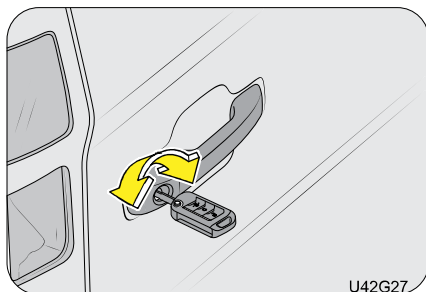
Locking/Unlocking Doors from Outside :

A key hole is provided in the driver door and back door to lock/unlock the door from outside by using the manual or conventional key. The key is bi-directional; you can insert it into the key hole in both directions.

**⚠ NOTICE**

Locking the driver door from outside activates the central locking system (if equipped), thereby locking ALL the doors of the vehicle. Refer to the 'Central Locking' section for further details.

Locking/Unlocking the Back Door :



The back door can also be locked/unlocked from inside using the lock tab.

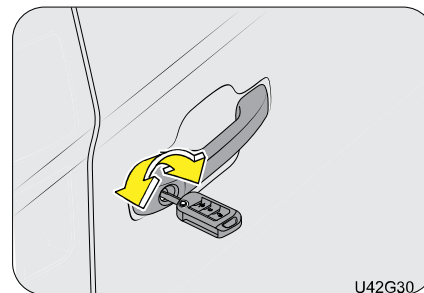
Pull the lock tab outwards to unlock or press the tab inwards to lock the back door.

7.2 Central Locking System

All doors of the vehicle can be simultaneously locked or unlocked from the driver door.

7.2.1 Central Locking/Unlocking All Doors from Outside

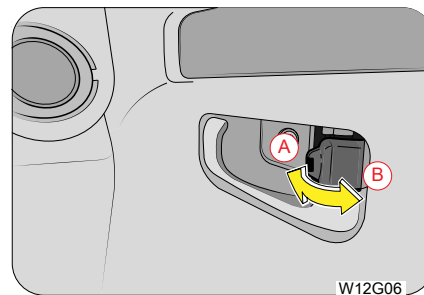
To manually lock/unlock all the doors from outside use the Conventional Key in the driver door key hole.

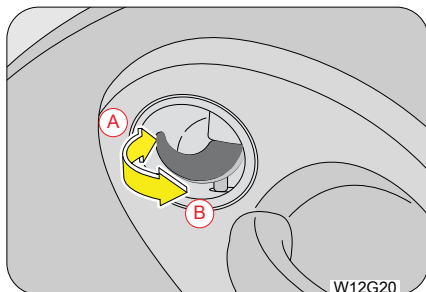


! NOTICE

In case any door including the back door is open when the central locking is activated, that door will not be locked even if it is closed later.

7.2.2 Central Locking/Unlocking All Doors from Inside



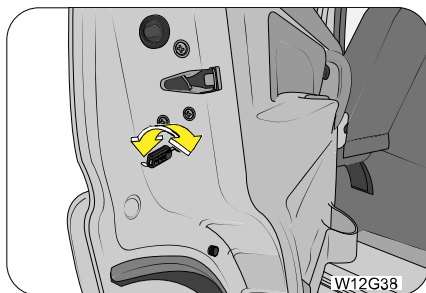


A Lock

B Unlock

Press the driver door lock tab down (A) to lock or pull out the lock tab (B) to unlock all doors simultaneously.

7.2.3 Child Safety Rear Door Lock



Your vehicle is equipped with left and right side child safety rear door locks. When the lock mechanism is engaged, the rear door(s) cannot be opened from the inside. The door(s) can only be opened from the outside.

Turn the vehicle key in the slot provided in the side face of rear door to activate/deactivate the child safety rear door lock.



NOTICE

If the rear doors are not operable from inside, ensure that the child safety locks have been disabled.



NOTICE

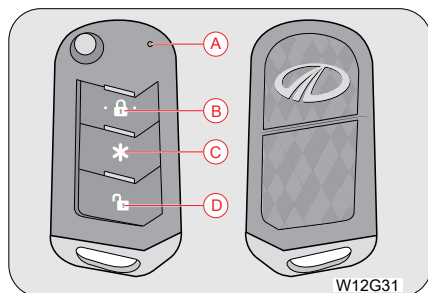
Mahindra strongly recommends that the child safety rear door locks be used whenever there are children traveling in the rear seat.

7.3 Anti—Lockout System

The anti-lockout system is activated when: any door is open, the key is in IGN and LOCK request is made via the master actuator switch — this unlock all the doors.

The unlock action will be repeated 2 times and thereafter the system locks all doors upon receiving LOCK request from the master actuator (3 Lock attempt).

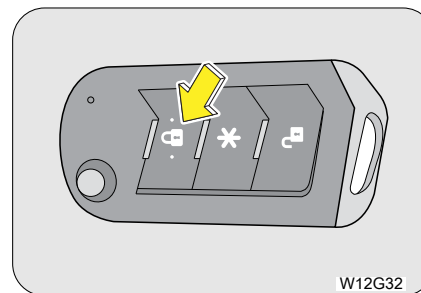
7.4 Remote Keyless Entry (RKE) System



A	LED
B	Lock
C	Search (Panic Alarm)
D	Unlock

The front side of the RKE has three control buttons, Unlock, Lock and Search buttons. The Remote Keyless Entry (RKE) system operates on Radio Frequency (RF). You can insert the key into the ignition with either side up.

7.4.1 To Lock and Arm the Vehicle with RKE



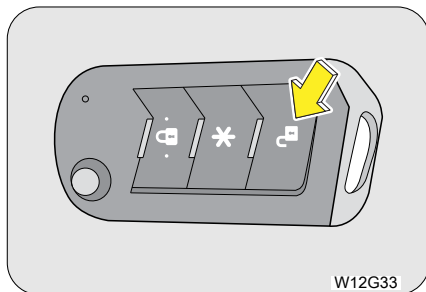
Press the LOCK button on the RKE for locking and arming the vehicle.

Hazard lamps flash once - if all the doors in the vehicle are locked and armed successfully using RKE.

Hazard lamps flash five times along with an alarm - if any of the doors (including bonnet) in the vehicle are open.



7.4.2 Unlock and Disarm the Vehicle with RKE



Press the UNLOCK button on the RKE to unlock and disarm the vehicle.

'Magic lamps' are activated (select variants) / Hazard lamps flash twice - if there was no theft attempt during the lock (armed) period.

Hazard lamps flash four times along with an alarm - if there was a theft attempt during the lock (armed) period.

NOTICE

Upon the remote lock, if any of the doors are not closed properly or are left open, the hazard lamps will flash five times to indicate the same.

7.4.3 Auto Locking

All doors will get locked automatically when;

- All doors are closed properly, AND
- Vehicle speed is greater than 20 kmph

Auto Locking ON DOOR OPEN — Once the auto lock has been activated, if any door is opened when the vehicle speed is below 5 kmph, then the auto lock will reactivate only if all doors are closed, the vehicle speed goes above 20 kmph and the master actuator is in the unlock position.

Auto Locking ON MASTER ACTUATOR UNLOCK — Once the auto lock has been activated, if the master actuator was unlocked at any vehicle speed, then the auto lock will reactivate only when the vehicle speed goes below 5 kmph and further crosses 20 kmph.

7.4.4 Auto Unlocking

Auto Unlock of all doors will happen when;

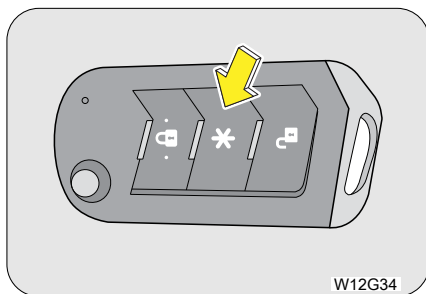
- From IGN ON to OFF, OR
- In the event of a crash (only on Airbag Variants)

7.4.5 Auto Re-locking

Auto Re-lock of all doors will happen when;

- No door status change for 45 sec after unlocking the vehicle using RKE

7.4.6 Search (Panic) Function



Press the SEARCH/PANIC button on the RKE to locate the vehicle in a parking lot. Panic alarm can also bring attention to the vehicle and surrounding area, warning about an intruder or seek for help.

When the SEARCH/PANIC function is ON, the hazard lamps flash along with an alarm for 30 sec. In this mode;

- Pressing the SEARCH button again switches OFF the alarm

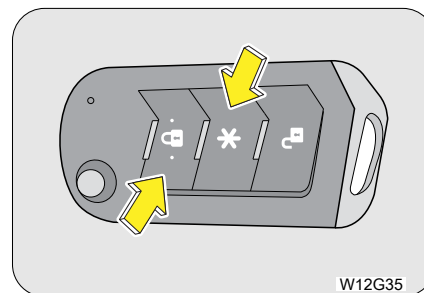
- Pressing the UNLOCK button switches OFF the alarm and disarms/unlocks all doors

! NOTICE

The search function works both during the Locked/Unlocked conditions of the vehicle.

7.4.7 Mute/Un-mute Function

The chirps can be muted / un-muted when the Search operation is in progress. Press the Search button: press the LOCK & SEARCH buttons together for 3 sec. to toggle between MUTE/UN-MUTE mode. Hazard lamps will flash once to indicate the change in status.





! NOTICE

In the un-muted condition, alarm chirps would be heard during Auto Re-lock (1 Chirp), RKE Lock when door open (5 Chirps) and RKE Unlock if there was a theft attempt during the lock (armed) period (4 Chirps).

In the mute condition, only hazard would flash and alarm chirps would not be audible.

7.4.8 Theft Alarm

Vehicle enters into alarm mode when there is a change in door status/ignition status provided the vehicle was locked through RKE.

- Alarm time - Vehicle will provide continuous alarm for 27 sec. for the first time.
- If there is any change in door/ignition status for the second time, the system enters the alarm state for 27 sec.

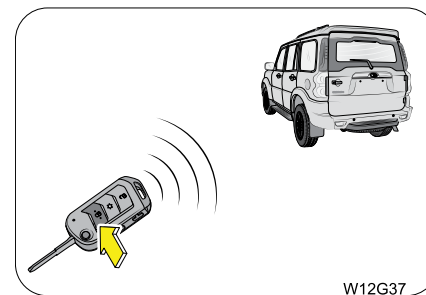
After the alarm period, there will not be any alarm again till any further change in the door/ignition status.

! NOTICE

The security system (alarm) will be activated only when the vehicle is locked using the RKE. Locking the doors with the mechanical key will not trigger the alarm.

When the vehicle is armed by RKE, opening the door from the inside by operating the door inner handle or opening the door from the outside using the key will be treated as unauthorized activating the vehicle security alarm. If this occurs, the alarm can be disarmed by either pressing the 'UNLOCK' button on the RKE or turning ON the ignition followed by a successful authentication.

7.4.9 RKE Operating Range



Using RKE, you can lock/arm or unlock/disarm the vehicle from distances approx. 30ft.[9m].

! NOTICE

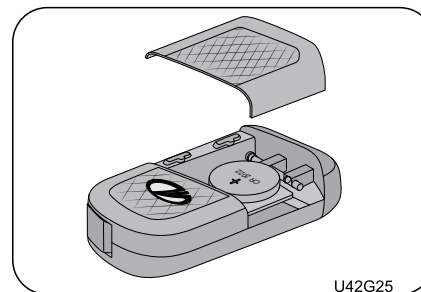
If there is reduction in RKE range, please follow the steps below:

- *Check the distance: The RKE may be too far from the vehicle. Stand closer to the vehicle during rain or bad weather*
- *Check the location: Other vehicles or objects may be blocking the signals. Take a few steps to the left or right, hold the RKE higher, and try again. Moreover, closeness to a radio transmitter such as radio station tower, airport transmitter, mobile or CB radios may lead to reduction in range of RKE*
- *Check the RKE battery: See battery replacement procedure, given later in this section*
- *If the RKE is still not working correctly, contact an Authorized Mahindra Dealer*

7.4.10 RKE Battery Replacement

If the RKE operation is inconsistent when any of the buttons are pressed it indicates that the RKE battery is weak.

The rear side of the RKE is snap fitted. Using a small screw driver or similar tool, pry or separate the two halves of the casing.



Pull out the batteries and discard the same. Insert new batteries of 3V type. While fitting the new battery, ensure the positive side of the batteries face up. Align both the halves of the RKE and press to snap fit. Check operation of the RKE

WARNING

An inappropriately disposed battery can be harmful to the environment and human health. Dispose the battery accordingly to your local law(s) or regulations.

CAUTION

While prying the RKE case, take care not to damage the battery.



⚠ CAUTION

Do not touch the battery terminals that are on the back housing or the printed circuit board.

Pull out the battery and discard the same. Insert new battery of same type. While fitting the new battery, ensure the positive side of the batteries face up (for button type). Align both the halves of the RKE and screw to tight fit. Check operation of the RKE.

7.4.11 If RKE is Lost

If you have lost the programmed RKE, contact an Authorized Mahindra Dealer for procuring a new RKE.

While programming a new key set, you will have to submit all the keys available with you to an Authorized Mahindra Dealer.

⚠ NOTICE

There is a limitation (max 2 keys at a time) to the number of keys that can be programmed. The minimum time frame required to supply the duplicate keys is 20 days after all the formalities are completed. Please contact the dealer to understand the formalities involved.

If the key is stolen or lost, communicate to an Authorized Mahindra Dealer to de-activate the function of the lost or stolen

key. This is essential to avoid unauthorized access using the misplaced key.

Only RKE transmitters programmed to your vehicle electronics can be used for remote locking and unlocking of your vehicle.

7.4.12 Precautions while Handling RKE:

- Do not cover the key grip with any material that cuts off RF waves
- Do not leave the key exposed to high temperatures for a long period, such as on the dashboard or hood under direct sunlight
- Do not put the key in any liquid or wash it in an ultrasonic washer

7.5 Engine Immobilizer System

The Engine Immobilizer System is a security system that prevents the vehicle being operated by an unauthorized person. The Engine immobilizer prevents the engine from being started unless it recognizes signals from the correct coded key.

The system is automatically activated when the key is removed from the ignition.

⚠ NOTICE

In order to safeguard the theft protection system of the vehicle, Mahindra will not supply EMS ECU (Engine Management



System - Electronic Control Unit), vehicle keys and the ICU as a set for any vehicle.

7.5.1 Features of the Immobilizer System

- Prevents the vehicle being started by anyone not in possession of the correct vehicle key
- The vehicle is automatically protected after the key is removed from the ignition. At every ignition ON, if the vehicle does not recognize the correct key code, the engine check lamp will illuminate/blink and the engine cannot be started
- The vehicle will not be protected until the key has been taken out of the ignition

CAUTION

If the engine check lamp flashes or remains continuously illuminated after the ignition being switched ON, there is a system malfunction. Contact an Authorized Mahindra Dealer immediately.

Inserting the correct coded key in the ignition and switching the ignition ON, automatically deactivates the system. This enables the engine to start.

NOTICE

In the event of the vehicle not starting with the correct key, switch off the ignition and remove for a minimum of 1 minute before attempting to start the vehicle again.

CAUTION

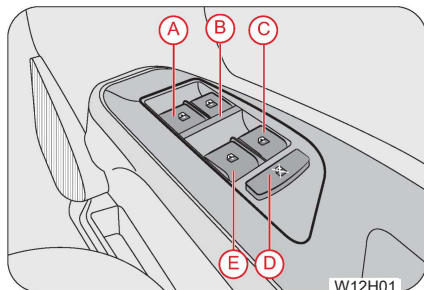
Do not modify, remove or disassemble the engine immobilizer system. Any unauthorized changes or modifications can affect proper operation of the system and will void your warranty.

Do not attempt to install after market 'push-button' start systems. These systems may compromise your vehicle's security system.

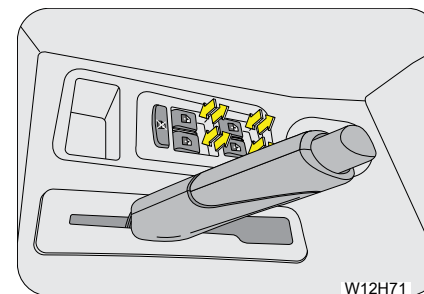


8 FEATURES AND CONTROL

8.1 Power Windows

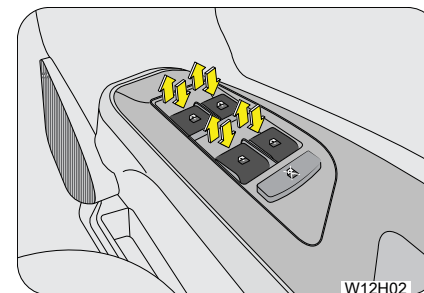


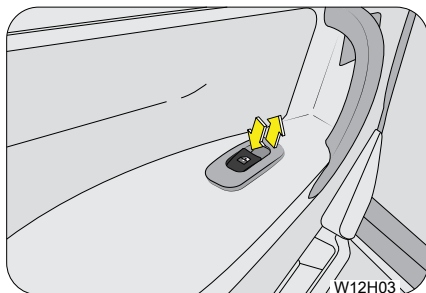
Passengers can also raise or lower their respective window glasses individually by the separate switches provided on each of the door trim pads.



A	Front Passenger Window Switch	D	Power Window Lock Switch (Child Safety)
B	Driver Door Window Switch	E	Rear LH Window Switch
C	Rear RH Window Switch		

The quadruple switch controls the window winding functions of all the doors of the vehicle. It also houses a child safety switch that enables/disables the power window operation of both the rear doors when operated independently from the respective door. Power windows can be operated only when the ignition is "IGN" position. The quadruple power window switch is located on the driver door trim / floor console depending on the variant.





To lower/raise the window glass push/pull the respective power window switch.

⚠ CAUTION

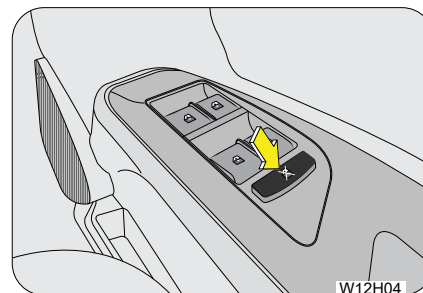
Do not operate the power windows frequently when the engine is OFF. This will drain the vehicle battery.

If you operate the switch often during a short period of time, the system might become inoperable for a certain duration to prevent damage due to overheating. The system will return to normal functioning shortly. It is recommended operating one window switch at a time.

⚠ WARNING

While operating the power windows, check for obstructions like a head, hand, etc. which may lead to personal injuries.

8.1.1 Power Window Lock Switch



A power window lock switch is provided in the quadruple switch bank which toggles the operation of the rear passenger power window switches.

8.1.2 Smart Power Window with Anti-Pinch (applicable for driver door only) (if equipped)

Smart power window is one of the significant safety features with the anti-pinch function, which automatically reverses the direction of glass if an obstruction is detected during the express up mode.

This feature consists of three functions;

- Auto UP
- Auto DOWN



- Anti-Pinch during Auto UP
- Extended Power Window
- Auto Roll UP / Auto Roll Down

Auto UP

Pull the power window switch up for a moment and release. The glass moves all the way up automatically. You do not need to hold the switch till the glass closes.

Auto DOWN

Press the power window switch down for a moment and release. The glass moves all the way down automatically. You do not need to hold the switch till the glass comes down.

Anti-Pinch during Auto UP

During Auto up if any obstacle is detected with the force value ranging between 70~100 N (~7-10 kg), the controller senses the load and reverses the direction of the glass to downward direction for almost full stroke length.

However if the force against the glass is less than the specified value then this function does not operate.

Extended Power Window (if equipped)

All doors power windows can be rolled UP/DOWN within 60 seconds after ignition off.

Auto Roll UP

This function closes the Driver side power window automatically upon pressing Remote Lock (RKE) at KEY OUT condition, even glass is at any open position.

Auto Roll Down

This function will open the Driver side power window automatically upon long pressing Remote Unlock (RKE) at KEY OUT condition, when glass is at closed position.



NOTICE

Power window main switch signal supersedes the RKE auto roll down / up input

Auto roll down / up features may not work as intended if the battery is low in RKE



CAUTION

All functions like Auto Up / Down and Anti-pinch during Auto UP are de-activated in case the vehicle battery terminals (positive or negative) are disconnected. Once the battery is reconnected, the smart power window learning should be done. However the normal power windows will still function.

8.1.3 Smart Power Window Learning Procedure

To initialize the function, the system has to learn one complete cycle. Repeat the below procedure for driver and co-driver windows separately.

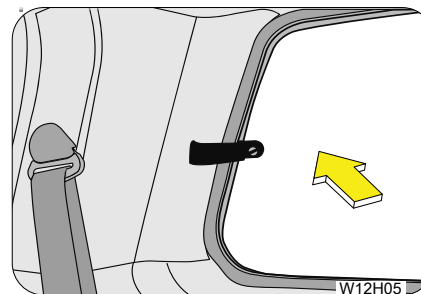
- Lower the window glass to the extreme bottom most position by pressing the power window switch continuously down
- Raise the glass up by pulling the power window switch continuously, hold the switch up for two seconds after reaching the top most position. This will make the system understand the extreme top position of the glass
- Lower the glass down by pressing the power window switch continuously, hold the switch down for two seconds after reaching the lower most position. This will make the system understand the extreme low position of the glass

With the above action, the system understands one complete cycle and the controller learns the stroke length

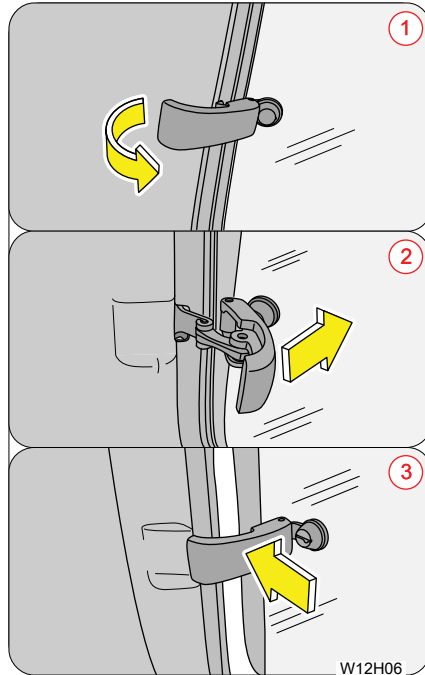
In case of hard weather strip conditions in express up mode, the system treats it as an obstacle and the glass starts moving down. This can be avoided by checking the weather strip at frequent intervals

In case of anti-pinch, 5 times continuous anti-pinch at the same point makes the controller lose its memory. Re-learning smart power window needs to be done

8.2 Butterfly Window (Rear Quarter Window)



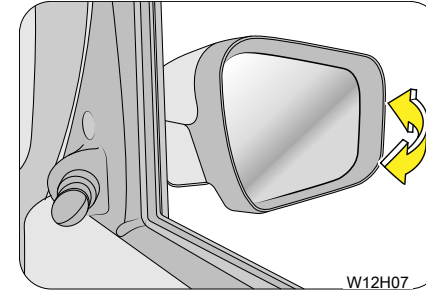
To open the rear quarter window (butterfly window), pull the latch handle towards you and swing it out completely. When closing the window, pull and lock the latch handle which will bring the rear quarter window back to its original closed position.



! CAUTION

Do not allow children to operate the quarter window. Pinching fingers is inevitable if not operated properly. Make sure it is operated only by adults.

8.3 Outside Rear View Mirror (ORVM)



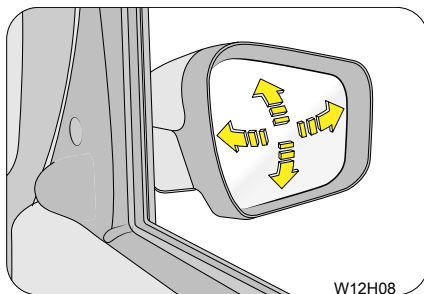
Integrated exterior rear view mirrors on both the sides facilitate maximum rear view information to the driver.

Both the ORVM's are hinged and can be manually folded or unfolded. This avoids hindrances in narrow areas and parking slots. Make sure that you fully engage the mirror in its support, while folding or unfolding.

! WARNING

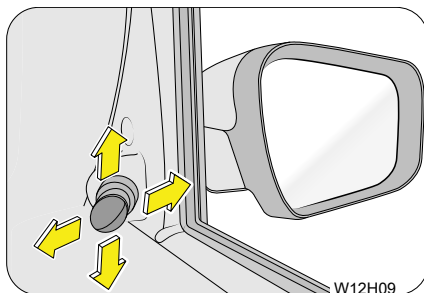
Do not overestimate the distance of the objects that you see in the mirrors. Objects seen in convex mirrors are much closer than they appear.

8.4 Tip-Tap ORVM Adjustment



Tip Tap ORVM's can be adjusted by hand in the direction as indicated by the arrows. Adjust the mirror as required to bring the rear traffic vision as desired.

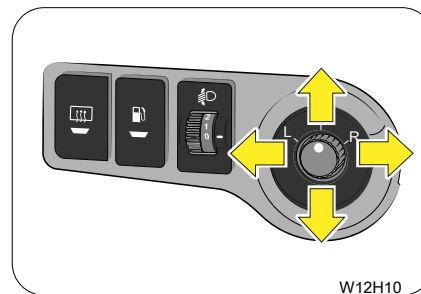
8.5 Manual (Joystick) ORVM Adjustment



Manual ORVM's can be adjusted by the joystick provided on the ORVM trim. Adjust the joy stick as required to bring the rear traffic vision as desired.

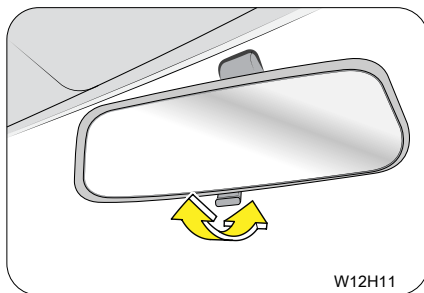
8.6 Electric ORVM Adjustment

The electric exterior mirror adjustment switch is located on the instrument panel on the RHS of the driver adjacent to the head lamp levelling switch. The joystick on the switch can be used to select the left/right mirror and also to adjust the respective mirror.





8.7 Interior Mirror

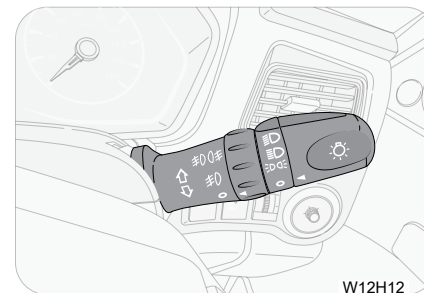


The interior mirror has day and night (anti-glare) positions. The night position reduces glare from head lamps of vehicles behind you. Flip the tab on the bottom edge of the mirror to select the day or night position.

8.8 Exterior Lamps

Lighting Control Stalk

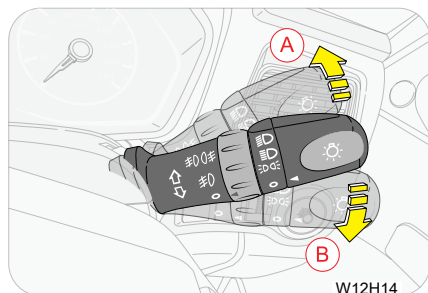
The lighting control stalk is located on the right hand side of the steering wheel. It controls operations of parking lamps, head lamps, head lamp beam selection, high beam flashing, fog lamps (if equipped) and turn signals when the ignition switch is ON.



8.9 Turn Signals

Taking a Right Turn

- Push the lighting control stalk clockwise (to stop position B) to indicate a right turn. The instrument cluster arrow lamp pointing towards the right flashes along with the right side turn signal lamps with chime indicating your intention of turning towards the right
- After you have completed your right turn, the stalk will automatically return to the neutral position. Both the right turn lamp and the right turn signal lamp switch off



A Turn Signal - Left

B Turn Signal - Right

Taking a Left Turn

- Push the lighting control stalk anti-clockwise (to stop position A) to indicate a left turn. The instrument cluster arrow lamp pointing towards the left flashes along with the left side turn signal lamps with chime indicating your intention of turning towards left
- After you have completed your left turn, the stalk will automatically return to the neutral position. Both the left arrow lamp and the left turn signal lamp switch OFF

Lane Changing

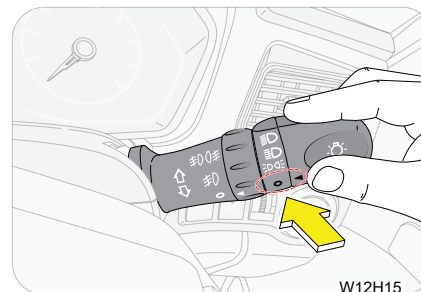
To signal a lane change, move the light control stalk clockwise or anti-clockwise to the limit point of free movement of the lever and release. The turn signals will flash three times and stop.

The turn signals will continue flashing as long as the lighting control stalk is held in the limit point of free movement.

! NOTICE

If the turn signal lamps on the instrument panel flash faster than normal, there may be a possibility that one or more of the turn signal lamp bulbs have blown. Replace the blown bulb immediately.

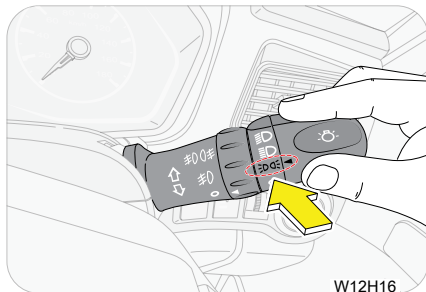
8.10 Lamps Off





Rotate the outer rotary switch on the lighting control stalk aligning the 'arrow' on the switch to 'O' on the stalk to switch OFF all lamps.

8.11 Parking Lamps On



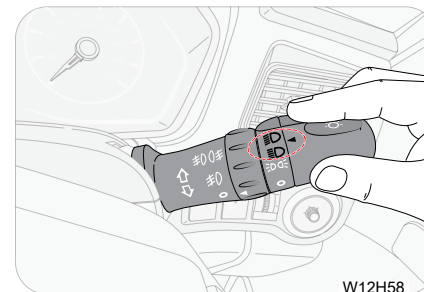
Rotate the outer rotary switch on the lighting control stalk aligning the 'arrow' on the switch to the '1st détente' position on the stalk to switch ON the parking lamps.

! CAUTION

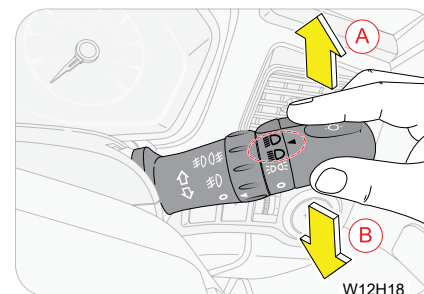
The tail lamp, license plate lamp, front park lamp and instrument panel illumination lamps are activated when the parking lamp is switched ON.

8.12 Head Lamp On

Rotate the outer rotary switch on the lighting control stalk aligning the 'dot' on the switch to the '2nd détente' position on the stalk to switch ON the head lamps.



8.13 Head Lamp High Beam/Low Beam



A	Low Beam	B	High Beam
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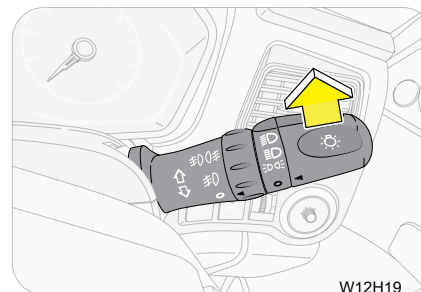
With the head lamp low beam ON, push the lighting control stalk down (away) from steering wheel to switch ON the head lamp high beam. The head lamp high beam telltale lamp in the instrument cluster illuminates indicating high beam option selected.

With the head lamp high beam ON, pull the lighting control stalk up towards the steering wheel to switch ON the head lamp low beam.

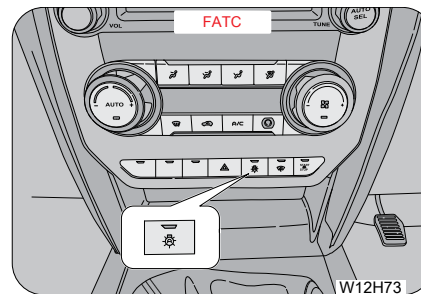
⚠ NOTICE

Your vehicle head lamps are vented and moisture may be collected on the inside of the head lamp lens under certain climatic and geographical conditions. This moisture will evaporate once the head lamps have been switched ON for a few minutes.

8.14 Head Lamp Flash



8.15 Auto Head Lamp



The auto head lamp button is located in the switch bank below the HVAC controls. Auto head lamp switches ON the head lamp based



on the outside ambient light sensed by the RLS sensor. This is useful when travelling through tunnels or low light areas.

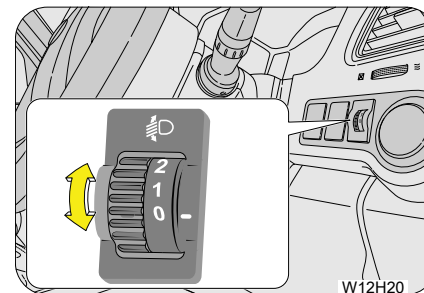
NOTICE

There may be a difference between ambient light intensity sensed by the RLS sensor and the human eye. Hence it is possible that during low light conditions, the head lamp is activated early as the RLS sensor senses it as low intensity. This is a normal behavior.

8.16 Head Lamp Leveling System

When the vehicle is either fully or partially loaded, it may have an upward inclination disturbing the head lamp aiming. A correct head lamp setting provides good visibility to the driver with minimum inconvenience to other road users.

To properly aim the head lamp beam, use the head lamp leveling switch. This switch is located on the right side of the steering column shroud in the instrument panel. This switch has four positions marked as 0, 1, 2 & 3.



Switch Position	Vehicle Loading Condition
0	Driver only or Driver with front passenger
1	Driver + Front passenger + Rear seat occupied
2	All seats occupied
3	All seats occupied with luggage OR Driver with luggage at extreme rear side.

Select the suitable switch position depending on the pay load as advised in the table.

NOTICE

The headlights can only be adjusted when the low beam is switched ON.



8.17 Magic Lamps

Magic lamps are greeting lamps when you approach the vehicle and press unlock on the RKE. They are a combination of the front park/position lamps and the rear tail lamps.

Magic lamps are activated when you unlock the vehicle using the RKE provided there were no theft attempts and the park/position lamps are OFF.

8.18 Hazard on Panic Braking

Hazard Lamps are turned ON during panic braking for 5 sec when the following conditions are met;

- Ignition is ON
- Vehicle speed is greater than 100 kmph
- Brake is applied
- Sudden High deceleration Rate

8.19 Static Bending Lamps

Static bending lamps are integrated in both the head lamps. Both Static bending lamps turn ON when a sharp turn is taken. They help in illuminating the road in the direction of turn.

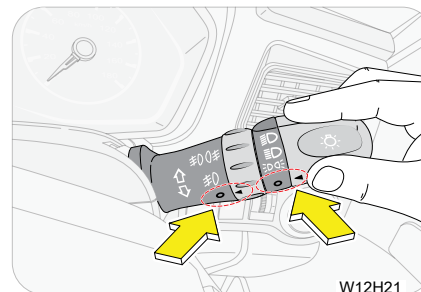
The following conditions are to be met for the lamps to switch ON;

- Ignition ON
- Head lamp is ON
- Sharp turn taken

8.20 Fog Lamps

Fog lamps are to be used along with the head lamp low beam, to improve the vision during foggy and misty conditions.

Fog Lamps OFF



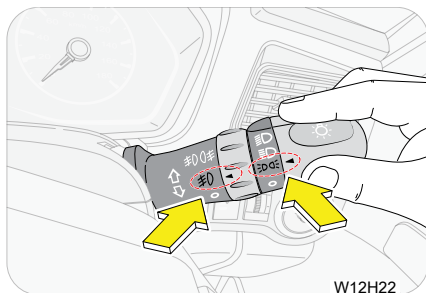
Align the inner rotary switch on the lighting control stalk to the fog lamp off 'O' on the inner fixed stalk as shown to switch OFF the fog lamps.

Front Fog Lamps ON



To switch ON the front fog lamps, switch ON the ignition and the parking lamps. Turn the inner rotary switch on the lighting control stalk to align to the fog lamp symbol on the inner fixed stalk as shown.

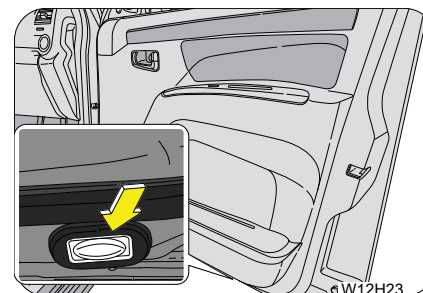
The front fog lamp indicator in the instrument cluster indicates the operation status.



! NOTICE

Fog lamps will turn ON only if the parking lamp is ON.

8.21 Puddle Lamps



The puddle lamps are provided at the bottom of the front doors. They are switched ON automatically when either of the front doors are opened. This illuminates the ground below the respective door thereby assisting in a safe entry and exit.

8.22 Follow-Me Home (FMH) with Rain Light Sensor (RLS)

This feature helps the driver and passengers to easily get out of the vehicle during poor light conditions. The head lamp low beam is turned ON for about 20 seconds, assisting the passengers to find their way unless cancelled by the UNLOCK signal from the RKE.

To enable FMH;

- Ignition transition from ON to OFF
- Park lamp is OFF



- Ignition key is out
- Driver door open within 3 mins from KEY OUT
- Head lamp would turn ON only if the ambience light is found dark by the light sensor

To extend FMH;

- The first RKE LOCK command will be used for locking all doors
- Successive RKE LOCK commands will be used for toggling the current status of the head lamp low beam
- Each time FMH is extended the head lamp low beam will be kept/turned on for the next 20 seconds

To disable FMH

- Park lamp transition from OFF to ON
- Ignition off to any other state
- FMH ON 20 seconds expires

With FMH mode ON, if the UNLOCK signal is received twice from RKE; the feature gets deactivated and cannot be extended further. Also, the doors are unlocked and vehicle the disarmed.

8.23 Follow-Me Home (FMH) Non RLS

This feature helps the driver and passengers to easily get out of the vehicle during poor light conditions. The head lamp low beam is

turned ON for about 20 seconds, assisting the passengers to find their way unless cancelled by the UNLOCK signal from the RKE.

To enable FMH;

- Ignition transition from ON to OFF
- Park lamp is OFF
- Ignition key is out
- Double press RKE LOCK
- Head lamp low beam will turn ON for 20 seconds unless cancelled by the UNLOCK signal

To extend FMH;

- The first RKE LOCK command will be used for locking all doors
- Successive RKE LOCK commands will be used for toggling the current status of the head lamp low beam
- Each time FMH is extended, the head lamp low beam will be kept/turned on for the next 20 seconds
- If no extension is provided for 3 mins, FMH will get expired

To disable FMH

- Park lamp transition from OFF to ON
- Ignition off to any other states
- FMH ON 20 seconds expires



- Max time of 3 mins has elapsed and no extension of FMH

With FMH mode ON, if the UNLOCK signal is received twice from RKE; the feature gets deactivated and cannot be extended further. Also, the doors are unlocked and vehicle disarmed.

8.24 Lead Me to Vehicle (LMV)(if equipped)

LMV is the feature that switches the head lamp ON in low beam for 20 sec helping the passengers to reach the parked vehicle safely and comfortably at night.

To enable LMV;

- Ignition key is out
- Park lamps OFF
- Press UNLOCK button on the RKE (press twice for non RLS equipped version)
- System will unlock all doors and disarm the vehicle followed by head lamp turning ON for 20 sec

NOTICE

If FMH has already expired, LMV would turn ON in the 1st RKE unlock press, else LMV would be activated for the 2nd RKE unlock press.

When LMV is activated for the 1st press, magic lamp will be initiated followed by head lamp ON for LMV.

To extend LMV;

- Successive UNLOCK commands received from RKE is used for toggling the current status of the head lamp low beam
- Each time LMV is extended the low beam will be kept/turned on for next 20 seconds

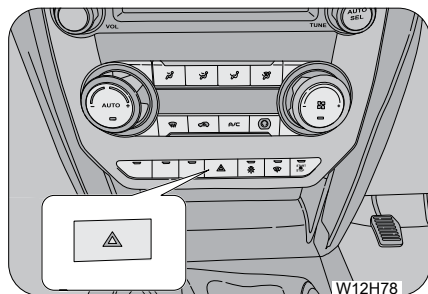
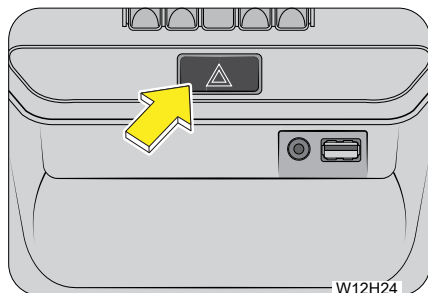
To disable LMV;

- LMV ON 20 seconds expires
- Driver door is open (for RLS variant only)
- Ignition off to any other states
- LOCK command is received from RKE
- Park lamp is switched ON

8.25 Hazard Warning Lamp

The hazard warning lamp switch is located below the AC controls on the instrument panel.

To turn the hazard warning lamp ON, push the switch in. All the turn signal lamps flash. The instrument cluster turn indicator lamps also flash indicating the same. To turn OFF, push the switch again.



Use the hazard warning lamp when your vehicle is stationary or to warn other road users to be cautious while passing your vehicle.

! NOTICE

The turn lamps do not work when the hazard warning lamps are operational.

Hazard lamps are also switched ON during the following conditions;

- *Crash — Hazard would be turned on for 30 mins*
- *Panic Braking — When the vehicle is running above 100 kmph and panic/sudden brakes are applied, hazard will turn on for 5 sec*
- *Vehicle break down warning bonnet open — The vehicle break down warning would be enabled only when bonnet switch changes from close to open condition at vehicle unlocked condition*

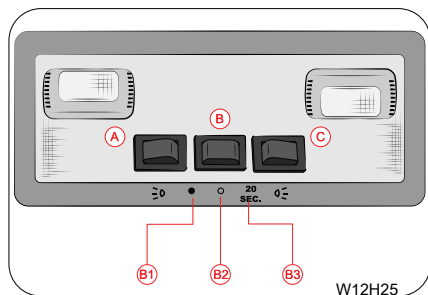
Pressing the hazard switch twice deactivates this feature.

8.26 Interior Lamps

Interior lamps comprise of roof lamps, map reading lamps and ignition key ring illumination. These lamps can be used for an illuminated entry. In auto mode, the roof lamps (courtesy lamps) and ignition key ring illuminate when any of the doors are opened. Once all doors are closed, the interior lamps switch OFF.



8.26.1 Front Courtesy/Map Reading (if equipped)



A	Map Reading Lamp (LH)	B1	Permanent ON
B	Roof Lamp	B2	Permanent OFF
C	Map Reading Lamp (RH)	B3	Door/Auto Mode

The front courtesy lamp is located in the roof console above the front seats. The courtesy lamp can be switched on using the middle switch (B) on the lamp.

The right/left map reading lamps for the driver/front passenger are located adjacent to the courtesy lamp and can be individually switched ON/OFF by the map reading lamp switches (A & C)

! CAUTION

Do not leave the courtesy/map reading lamp in permanent ON mode. This will drain your vehicle battery.

8.26.2 Front Courtesy Lamp — Auto Mode Operation

This is applicable to front row courtesy lamp only. The courtesy lamp switch (A) has three operation modes to choose from;

B1. The courtesy lamp remains permanently ON in this position irrespective of the door open status

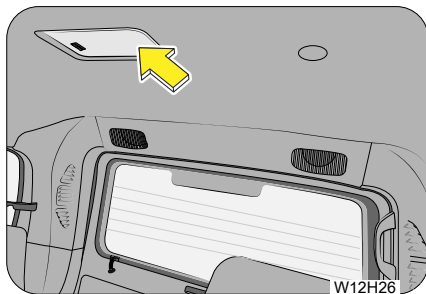
B2. The courtesy lamp remains permanently OFF in this position

B3. The courtesy lamp remains in AUTO mode in this position. The operation of the courtesy lamp in Auto mode is as follows;

- Courtesy lamp switches ON, dims and goes OFF after a preset delay once RKE unlock is performed
- Courtesy lamp switches ON when any of the doors is/are open
- Courtesy lamps dim and go OFF after a preset delay upon closing of all doors during IGN OFF condition
- Courtesy lamps dim and go OFF immediately on RKE lock or manual key lock after all doors are closed
- If any of the doors are not closed properly, then the courtesy lamps switch OFF automatically after a preset duration (during IGN off) or once the vehicle speed > 20 kmph
- Courtesy lamps go OFF with ignition ON and all doors closed properly

8.26.3 Second Row Courtesy Lamp

The second row courtesy lamp is located on the roof above the second row seats. The courtesy lamp can be switched ON by the middle switch on the lamp.

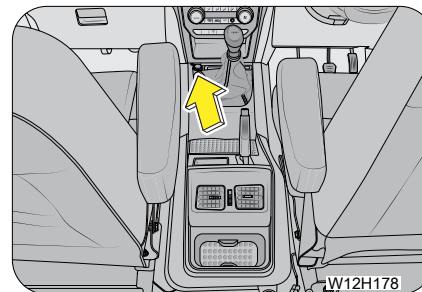


8.27 Power Outlet

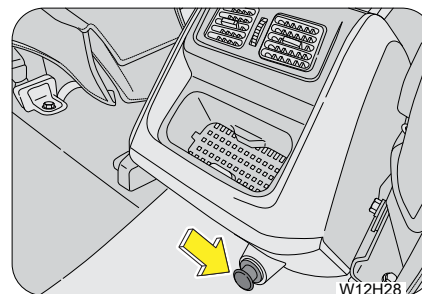
There are two (on select variants) 12V power supply sockets provided for power take OFF depending on the vehicle variant. Electrical equipment/appliances like mobile phone charger, cigarette lighter, etc. can be used in the outlets. The power outlet is rated 12V/10A when the engine is ON.

The power outlets are located in the following places in the vehicle;

- Front - In the floor console next to the gear lever



- Second Row - Below the rear AC vents (if equipped)



⚠ WARNING

To avoid serious injury:

- *Do not use a three-prong adapter*
- *Close the power outlet cap when not in use*



- *Do not allow children to use or play with the power outlet*
- *When using electrical appliances, strictly follow the manufacturers instruction manual*

CAUTION

Do not modify, disassemble or repair the power outlet in any way. Doing so may result in unexpected malfunction or fire, which could cause serious damage to equipment and/or personal injuries. Contact an Authorized Mahindra Dealer for any necessary repairs.

WARNING

To prevent injuries and accidents, secure all electrical appliances before use. Do not use any appliance that may:

- *Distract the driver while driving, or hamper safe driving*
- *Result in a fire or burn injuries due to the appliance rolling, falling or overheating*
- *Result in a fire or burn injuries due to the appliance rolling, falling or overheating while driving*
- *Emit steam, while the windows of the passenger compartment are closed*
- *Never use the power outlet for electric heaters while sleeping*
- *Never insert foreign objects into the power outlet*

- *Never use malfunctioning electrical appliances*
- *Never insert inappropriate or badly fitting plugs into the power outlet*

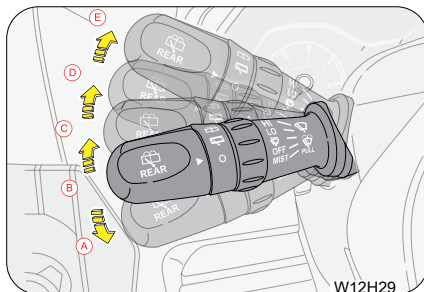
CAUTION

Accessories that draw higher power (i. e., coolers, vacuum cleaners, etc.) will drain the battery quickly and may damage the power outlet.

- *Use the power outlets only when the engine is running. Remove the plug from the power outlet after using the electric device. Using the power outlets when the engine is OFF or leaving the electric device plugged in for many hours may cause the battery to drain*
- *Do not use the power outlet to connect electric accessories or equipment that are not designed to operate on 12V*
- *Some electronic devices can cause electronic interference when plugged into the power outlet. These devices may cause excessive audio noise and may interfere with other electronic systems or devices in your vehicle*

8.28 Windshield Wipers

8.28.1 Wiper Control Stalk



A	Flick Wipe (MIST)
B	Off
C	Intermittent (INT)
D	Low Speed (LO)
E	High Speed (HI)

The wiper/wash function can be activated only when the ignition is in "IGN" position.

8.28.2 Wiper Off

The wiper function is OFF when the wiper control stalk is in neutral position (B).

8.28.3 Flick-Wipe (Mist)

Push the wiper control stalk to position A for a flick-wipe, hold to operate the wiper continuously (simultaneously lift the wiper stalk towards the steering wheel to operate the wash). The stalk automatically comes back to position B when released.

8.28.4 Intermittent (INT) Mode

Intermittent (INT) wiping is selected when the wiper control stalk is pushed down to position C. In the INT mode, the wiper operates on preset intervals of 4 sec.

The delay between each wipe can be programmed from 1 to 60 sec according to the rain by the user.

Programming of the INT delay time is as follows;

- Turn the wiper stalk to position C, wiper will start wiping
- Turn the wiper stalk to OFF position, before wiper starts second wipe
- Turn the wiper stalk to position C again after the required delay and the same delay will be programmed



- On keeping wiper ON position C, the wiper will wipe again with the programmed delay

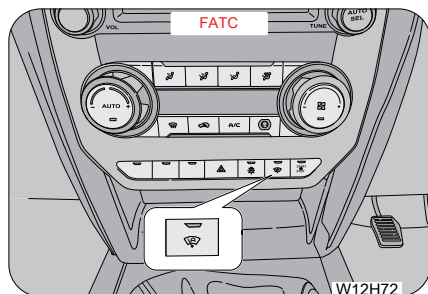
8.28.5 Low Speed Wiping

Push the wiper control stalk up to the position D to operate the wiper at a fixed low speed.

8.28.6 High Speed Wiping

Push the wiper control stalk up to position E to operate the wiper at a fixed high speed.

8.28.7 Auto Wipe (if equipped)



Auto wipe senses water on the front windshield and activates the wiper as necessary. The auto wipe button is located in the switch bank under the HVAC controls. Press the button to enable the auto wipe;

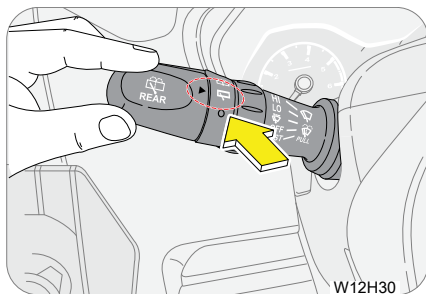
- Front wiper will wipe once to indicate the entry into automatic mode
- Front wiper will wipe according to the rain intensity

! NOTICE

- Upon water splash (water pool on road side), auto wipe may not work.*
- It might be possible that even when there is no water on windshield, the wipers are activated. This is because of the mist which may be present on the windshield and is normal*
- The RLS sensor cannot detect difference between water, ice, snow, oil, etc. Under these conditions, the sensor may behave improperly. If required, turn off the "AUTO WIPE" mode manually.*

Keeping the wiper in low/high speed will deactivate the auto mode.

8.28.8 Rear Wiper (if equipped)

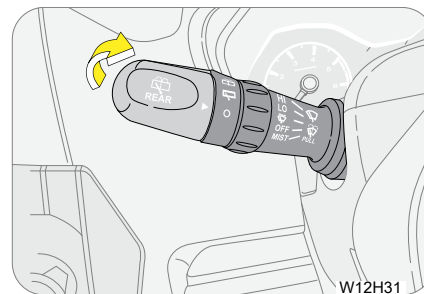


Rotate the outer rotary switch (F) on the wiper control stalk to align the 'arrow' on the switch to rear wiper symbol on the wiper stalk to operate the rear wiper.

NOTICE

If you switch OFF the ignition before switching OFF the wiper, the blades stop at random on the windshield. Switch ON the ignition and move wiper stalk to the 'MIST' position to return the wipers to the park position, provided the wiper stalk is in the OFF position.

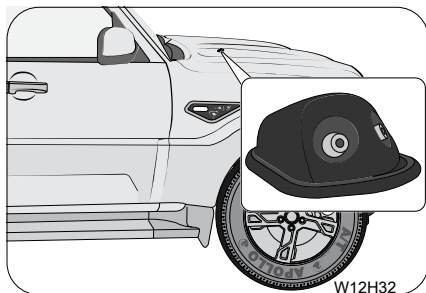
8.28.9 Wipe/Wash



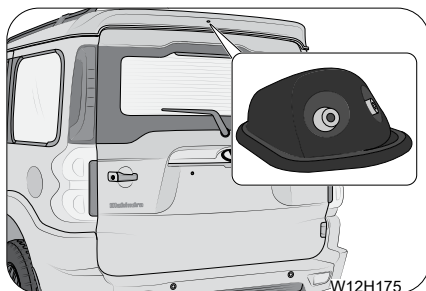
Pull/Lift the wiper control stalk towards the steering wheel from any position to activate the front wipe/wash function. Washer fluid is sprayed on the front windshield and the wipers wipe the windshield 3 times after the washer spray is stopped and wipe once after 5 sec. Hold the stalk in position for continuous spray of washer fluid.

The rear windshield wash & wipe operates 3 to 4 times or as long as the stalk end (F) is turned/rotated to wash détente. Wiping will continue for few seconds after releasing the stalk end switch.

Front windshield washer fluid is taken from the reservoir in the engine compartment. Rear windshield washer fluid is supplied from the reservoir located in the back door. Press the tab on the lid and pull open the lid to access the rear wash reservoir.



In the front, a single nozzle with twin adjustable washer jets is provided on the hood. Using a pin, the eye ball jets can be adjusted precisely for direction. Always direct the washer jet to hit the middle of the windshield. This will enable the wiper blade to wipe the complete width of the windshield.



In the rear, a single nozzle with twin adjustable washer jets is provided on the rear spoiler for rear windshield wash. Adjust to direct the washer jet to hit the middle of rear windshield using a pin.

 WARNING

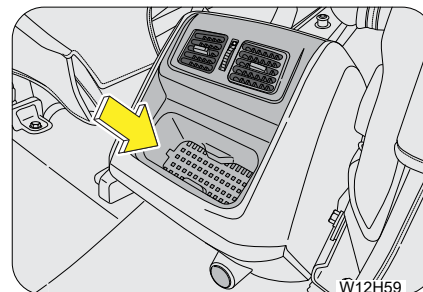
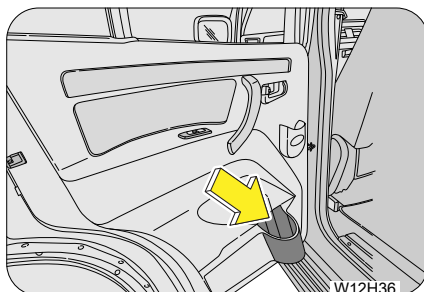
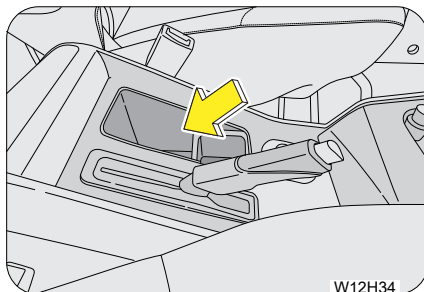
Using the windshield washer in freezing temperatures could be dangerous. The washer fluid could freeze on the windshield and block your vision, resulting in an accident. If you operate your vehicle in temperatures below 4° C, use washer fluid with antifreeze protection.

 CAUTION

- *Do not operate the wipers when the windshield is dry. It may lead to scratches on the glass*
- *It is recommended not to use the wiper when the windshield glass is covered with debris, snow or leaves. Clean the glass before using the wiper to avoid damage to the wiper blades and glass*
- *Do not operate the windshield washer for more than 10 seconds or when the reservoir is empty*

8.29 Utility Holders

8.29.1 Can/Cup/Bottle Holders (if equipped)



There are cup/can/bottle holders in the front floor console next to the park brake lever, in the floor console below the rear AC vents and in the both the rear door trims.

CAUTION

Only sealed or cups with lids are to be used in the cup holders.

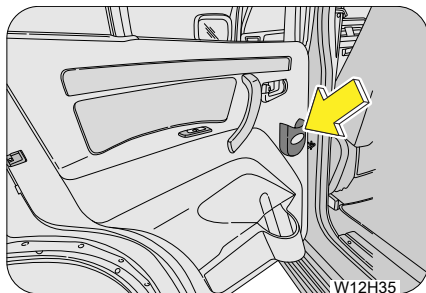
Use caution when using the cup holders. A spilled beverage that is very hot can injure the driver or passengers. Spilled liquids can also damage interior trim and electrical components.

Any spilled beverage can also startle the driver and cause loss of control of the vehicle, resulting in an accident.

Never place objects other than cups or cans in the cup holder. These objects can be thrown out in the event of a sudden stop or an accident, possibly injuring the passengers in the vehicle.

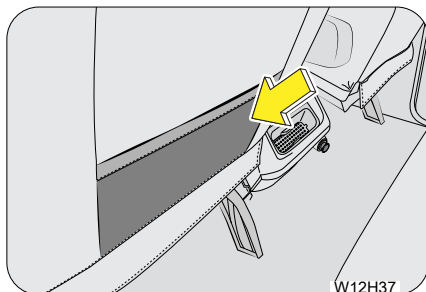


8.29.2 Mobile Holder (if equipped)



Mobiles, visiting cards, toll tickets, etc. can be stored in the mobile holder located in both the rear door trims.

8.29.3 Seat Back Pocket (if equipped)



The seat back pockets on the back of the front seats can hold light weight papers/books.

! CAUTION

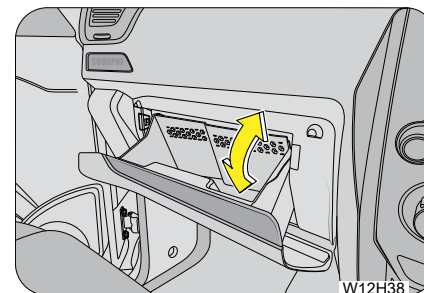
To avoid injury, do not place large or hard objects in the seat back pockets. Do not put more than 1 kg weight in the seat back pockets.

8.29.4 Glove Box

The instrument panel houses a glove box on the passenger side. Open the latch by lifting the handle and lower to access the storage.

The owner's manual can be found inside the glove box. It is advisable to always keep it in the glove box for ease of reach.

It is also recommended to keep copies of all vehicle documents in the glove box for reference when needed.



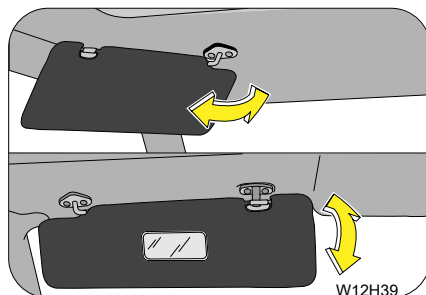
**! NOTICE**

Do not overload the glove box.

*Do not store loose or small metal objects inside the glove box.
This will lead to rattling while the vehicle is driven on bad roads.*

! WARNING

To avoid the possibility of injury in case of an accident or a sudden stop, the glove box lid should be kept closed when the vehicle is in motion.

8.29.5 Sun Visor

The sun visors can be used for either frontal or sideward shade, to reduce glare or to shut out direct rays of the sun. The sun visor can be swivelled to the side, as shown, to provide shade from the glare of the sun.

In certain variants, a vanity mirror is provided on the back of the front passenger sun visor.

8.29.6 Floor Mat (if equipped)

Floor mats are provided in the front and rear foot wells to avoid stains on the floor carpet.

! WARNING

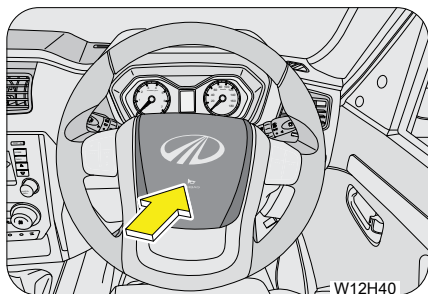
Always keep the floor mats in their correct position to avoid interference with the movement of the accelerator or brake pedals during driving, which may lead to accidents.

! CAUTION

Addition of multiple floor mats other than the one provided originally with the vehicle may limit the travel of the clutch pedal.



8.30 Horn



Press the pad on the steering wheel to blow/sound the horn. The horn functions even when the ignition has been switched OFF.



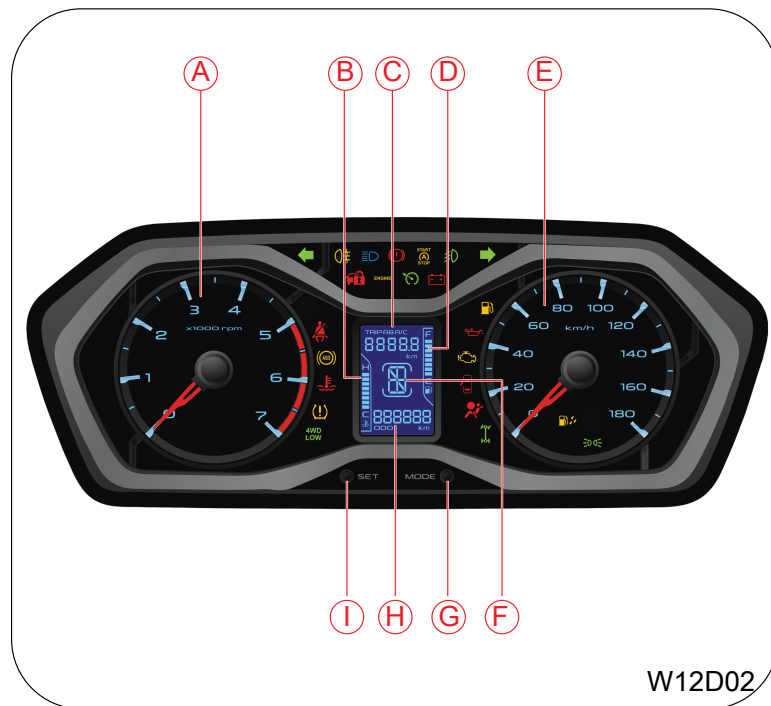
8.31 Instrument Cluster - Type 1



A	Tachometer / RPM Gauge
B	Temperature Gauge
C	Trip Meter
D	Fuel Gauge
E	Speedometer
F	Mode Button
G	Odometer
H	Set Button



8.32 Instrument Cluster - Type 2



A	Tachometer / RPM Gauge
B	Temperature Gauge
C	Trip Meter
D	Fuel Gauge
E	Speedometer
F	Gear Indicator
G	Mode Button
H	Odometer
I	Set Button



8.33 Instrument Cluster Gauges

The instrument cluster comprises of the tachometer, speedometer, trip meter (A & B), SET button, MODE button, odometer, fuel gauge, coolant temperature gauge, warning lamps and telltale indicators.

NOTICE

All the gauges have pre-check (All the gauges will show full deflection and will come back to zero). In case of signal missing below mentioned behavior would be shown by the cluster. In such a case please contact the dealer.

State	Pre-check	Signal Invalid	No Signal
Engine High Temperature	Yes	ON	OFF
Engine Temperature Gauge	Yes	Max	OFF
Vehicle Speed	Yes	Max	Max
Engine Speed	Yes	Max	Max
Odometer Reading	Yes	Odometer, Trip A, Trip B retains previous value	

Maintain steady engine speed below 3000 RPM and do not accelerate or decelerate abruptly.



8.33.1 Tachometer (if equipped)

The tachometer indicates the real time engine speed in thousands of RPM (revolutions per minute). Each division is 500 RPM.



8.33.2 Speedometer



W12H43



W12H44

The speedometer indicates the real time road surface speed of the vehicle in kilometers per hour.

! NOTICE

The vehicle speed is affected by the size of the tires used. If the size of the tires are changed from those fitted at the factory, the speedometer might not display the correct road surface speed and distance travelled.

8.33.3 Odometer



W12H45



The bottom row of the LCD display gives the odometer reading. It records and displays the total distance traveled in kms.

8.33.4 Trip Meter, Set and Mode Button



A	Set Button	B	Mode Button
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The top row of the LCD display gives the trip meter A & B details. It displays the elapsed distance travelled since the last trip reset. There are two trip meters [A/B] which can be reset by SET [A] button.

**! NOTICE**

Odometer and trip meter are displayed only when the ignition is ON. To cycle between trip A & B press and release MODE (B) button for a second.

8.33.5 Engine Coolant Temperature Gauge

The engine coolant temperature bar graph functions only when the ignition is switched ON. It indicates the instantaneous engine coolant temperature. The coolant temperature varies with changes in weather, load on engine and driving pattern. LCD bar rises from Cold (C) towards Hot (H).



At normal operating temperature, 4 bars are displayed in the LCD bar graph. The high engine coolant temperature lamp along with all 8 bars blink when the temperature reaches 110 °C. And when the temperature is 119 °C, the temperature warning lamp and all 8 bars are permanently ON. In such situations switch OFF the AC and observe any improvements in the temperature gauge. If not, stop the vehicle and allow the engine to cool down. Check the coolant level in the coolant reservoir and top-up if required. If the engine is still overheating, contact your nearest Authorized Mahindra Dealer.

! CAUTION

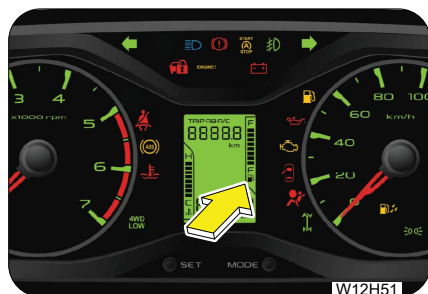
Never remove the degassing tank cap when the engine is hot. The engine coolant is under pressure and could splash on to skin/eyes causing severe burns. Wait for the engine to cool down before adding coolant to the reservoir.

Do not continue driving the vehicle with a overheated engine. This will lead to damage of engine components and engine seizure.

8.33.6 Fuel Level Gauge

The fuel level bar graph functions only when the ignition is switched ON. It gives the status of the fuel level in the fuel tank. F indicates the tank is full (60 liters), E indicates the tank is empty. The amount of fuel required to fill the tank up may be less than the specified tank capacity, as a small amount of reserve fuel always remains in the tank.

When the tank is nearly full, 8 bars illuminate on the LCD bar graph display. When the tank is near empty i.e. RESERVE, the bottom bar alone is illuminated and the low fuel warning lamp in the cluster is ON.



On inclines or curves, due to the movement of fuel in the tank, the fuel level may fluctuate or the low fuel level warning lamp may illuminate earlier than usual. Always check the fuel level when the vehicle is on level road.

If the low fuel warning lamp continues to be ON even after filling sufficient fuel, contact your Authorized Mahindra Dealer as soon as possible.

WARNING

Refuel your vehicle as soon as the last bar illuminates in the fuel bar graph. Refuel your vehicle only after switching OFF the ignition.



8.34 Warning Lamps Overview



	Left Turn Indicator		Check Engine Lamp		Park/Low Brake Fluid Lamp		Water in Fuel Warning Lamp
	Right Turn Indicator		Door Ajar Lamp		Security Lamp		Low Fuel Warning Lamp
	Headlamp High Beam		High Temperature Lamp		Battery Charge Lamp		Start/Stop Lamp*
	Malfunction Lamp (OBD)		Low Oil Pressure Lamp		Seat Belt Warning Lamp		Parking Lamp
	Airbag Warning Lamp		ABS Warning Lamp		4WD High Lamp		4WD Low Lamp



To know more about warning & telltale lamps, download the handy “Scorpio” app from Google playstore or Appstore



Airbag Warning Lamp	Tiretronics	Cruise Control Indicator	Start/Stop Lamp*
Left Turn Indicator	Check Engine Lamp	Park/Low Brake Fluid Lamp	Water in Fuel Warning Lamp
Right Turn Indicator	Door Ajar Lamp	Security Lamp	ABS Warning Lamp
Headlamp High Beam	High Temperature Lamp	Battery Charge Lamp	Low Fuel Warning Lamp
Malfunction Lamp (OBD)	Low Oil Pressure Lamp	Seat Belt Warning Lamp	Parking Lamp
4WD High Lamp	4WD Low Lamp	Front Fog Lamp	



To know more about warning & telltale lamps, download the handy “Scorpio” app from Google playstore or Appstore



8.35 Warning Lamps in the Instrument Cluster

8.35.1 Malfunction (OBD) Lamp



The Malfunction (OBD) Lamp illuminates when the ignition is switched ON and remains ON till the engine has started indicating normal status. If the lamp remains ON, it indicates a potential engine malfunction.

There may be a malfunction in:

- The fuel management system
- The emission control system
- Systems which affect emissions

Such malfunctions may result in excessive emissions. Contact an Authorized Mahindra Dealer immediately.

8.35.2 Check Engine Lamp



The check engine lamp illuminates when the ignition is switched ON and goes out in 3 seconds indicating normal status. The lamp blinks or illuminates continuously if there is a fault in the engine management system. Contact the nearest Mahindra Dealer for the necessary repairs.

8.35.3 Security Lamp



Once the ignition is turned OFF, the security lamp will blink at a fast rate frequency indicating the vehicle is secured against unauthorized start of engine. When the vehicle is locked using RKE, security lamp will blink at a slow rate frequency which will indicate that antitheft system is armed and unauthorized door entry to the vehicle will trigger alarm.

At ignition ON, the security lamp blinking continuously indicates a malfunction in the engine immobilizer system. Contact an Authorized Mahindra Dealer immediately.

8.35.4 Parking Brake/Low Brake Fluid/EBD Warning Lamp (if equipped)



The lamp illuminates when the parking brake is engaged or when the brake fluid level in the reservoir is low or when EBD (if equipped) failure is detected. If the lamp illuminates while driving, do the following:

- Check if the parking brake is engaged. If yes, disengage it
- Check if the brake fluid level is low. If yes, top-up brake fluid (DOT 4) to the required level

If the brake lamp still continues to illuminate, immediately get the vehicle checked at an Authorized Mahindra Dealer.



⚠ WARNING

Clean the top of the brake fluid reservoir before removing the cap. Make sure no dirt, impurities or other items fall into the reservoir. Do not leave the cap off for more than a few minutes. Any contaminants, impurities or moisture in the brake fluid can affect brake operation, resulting in an accident.

If the brake warning lamp comes ON while driving, the brake system or the EBD system (if equipped) might not be working properly. The pedal might be harder to operate or might go closer to the floor and it can take longer to stop. Pull off the road carefully and stop the vehicle. Contact the nearest Authorized Mahindra Dealer for checks or repairs.

Driving the vehicle with the brake warning lamp ON or when you suspect brake trouble is very dangerous and could result in serious injuries. Contact an Authorized Mahindra Dealer for checks or repairs.

When there is a EBD failure, the parking brake lamp illuminates along with the ABS warning lamp.

8.35.5 Turn Lamps



The turn lamp arrows in the instrument cluster flash showing the direction indicated by the turn signals. A sudden increase in the rate of flashing indicates failure of one or more of the lamp bulbs. Have them replaced as soon as possible.

8.35.6 Head Lamp High Beam Lamp



The head lamp high beam lamp illuminates whenever the head lamps are switched ON to high beam or when the head lamp flash is used.

8.35.7 Battery Charging System Warning Lamp



The battery charging system warning lamp illuminates when the battery is not being charged or when there is a malfunction in the alternator.

This lamp illuminates when the ignition is switched ON and goes out as soon as the engine is started. If the lamp continues to remain ON even after starting the engine, it is an indication that the battery is not being charged or there is a malfunction in the alternator. Check the alternator drive belt for looseness/breakage. If the drive belt is okay, switch OFF all unnecessary electrical equipment and recheck. Contact an Authorized Mahindra Dealer for further assistance.

8.35.8 Low Engine Oil Pressure Warning Lamp



The low engine oil pressure warning lamp illuminates when the ignition switch is turned ON and goes out as soon as the engine is started. If the lamp remains ON even after starting the engine, or illuminates while driving, stop immediately and check the oil level after 2-3 minutes. If low, add



engine oil to the 'MAX' level and check status. If problem persists, contact an Authorized Mahindra Dealer immediately.

WARNING

Operating the vehicle with the low oil pressure warning lamp ON could cause sudden unexpected engine failure and loss of vehicle control, resulting in an accident or personal injury.

Do not run the engine with low oil pressure warning indicator ON. This may result in engine damage, which will not be covered by the limited warranty.

8.35.9 High Engine Coolant Temperature Warning Lamp



The high engine coolant temperature warning lamp and all bars in the temp gauge blink when the coolant temperature is 110°C, and they remain permanently ON when the temperature reaches 119°C. Contact an Authorised Mahindra Dealer immediately.

WARNING

Do not continue driving the vehicle with an overheated engine. This may result in engine damage, which will not be covered by the warranty.

8.35.10 Water-in-Fuel Warning Lamp



The water-in-fuel warning lamp illuminates when the accumulation of water in the fuel filter reaches the maximum permissible limit. The fuel filter needs to be drained. Contact an Authorised Mahindra Dealer.

WARNING

Do not continue driving the vehicle with the water-in-fuel warning lamp ON. This may result in fuel pump/other fuel system component damage, which will not be covered by the limited warranty.

8.35.11 Low Fuel Warning Lamp



When the fuel level in the fuel tank falls below the reserve limit, the low fuel warning lamp is ON. Refuel sufficiently and the lamp goes out. If the lamp continues to be ON even after refueling, contact an Authorized Mahindra Dealer.

8.35.12 Seat Belt Warning Lamp



The seat belt warning lamp illuminates reminding the driver to fasten the seat belt when the ignition is ON. The lamp will continue to illuminate till the driver fastens the seat belt properly.



8.35.13 Airbag Warning Lamp



The airbag warning lamp in the instrument cluster illuminates when the ignition is switched ON and goes OFF in about 3 seconds. If the lamp remains ON continuously or flashes intermittently, contact an Authorized Mahindra Dealer immediately.

Following conditions indicate airbag malfunction:

- Lamp fails to go OFF
- Lamp does not illuminate at all
- Illuminates while driving

Contact an Authorized Mahindra Dealer immediately when the airbag warning lamp indicates a system malfunction. The airbag may not deploy when needed, which could result in serious or fatal injury, or it might deploy unexpectedly and unnecessarily, which may result in personal injury.

8.35.14 Anti-lock Brake System (ABS) Malfunction Lamp



The ABS malfunction lamp illuminates when the ignition is switched ON and goes OFF after about 3 seconds. If the ABS malfunction lamp continues to remain ON or illuminates while driving, the ABS will not operate. But the brake system will still operate conventionally. In this condition,

the wheels can lock during severe braking. Have the vehicle checked by an Authorized Mahindra Dealer as soon as possible.

WARNING

When a EBD failure is detected, both the ABS and the parking brake warning lamps illuminate.

8.35.15 EBD Malfunction Lamp



When a EBD failure is detected, both the ABS warning lamp and the parking brake warning lamp illuminate together. But the brake system will still operate conventionally. Have the vehicle checked by an Authorized Mahindra Dealer as soon as possible.

8.35.16 Front Fog Lamp



The front fog lamp telltale indicates the status of the front fog lamp. The front fog lamp can be switched ON only when the parking lamp is ON.

8.35.17 Door Ajar Warning Lamp



The door ajar warning lamp illuminates when any door is open when the ignition is ON. The lamp goes OFF when all the doors are closed properly.



8.35.18 Cruise Control Warning Lamp



The cruise control warning lamp illuminates when the ignition is switched ON and goes OFF in about 3 seconds indicating normal status.

When SET + in the steering wheel is pressed, cruise control is activated and the lamp illuminates indicating the vehicle is in cruise mode. When the CRUISE OFF button in the steering wheel is pressed, the cruise mode is deactivated and the lamp goes OFF indicating that the vehicle is not in cruise mode.

If the lamp does not illuminate when the vehicle is in cruise mode or does not go OFF when the vehicle is out of cruise mode, there is a possible malfunction in the lamp or the cruise control system. Have the vehicle checked by an Authorized Mahindra Dealer.

8.35.19 Stop/Start Lamp (if equipped)



The Start/Stop lamp blinks when the engine is about to be stopped by Start/Stop System. And the lamp turns ON continuously when the engine has been switched OFF by the system. On restarting engine by pressing the clutch/key, the lamp turns off.

The Start/Stop lamp blinks at faster rate for a longer time than usual when the battery state does not allow the system to stop the engine automatically.

8.35.20 Tiretronics Lamp



warnings.

The Tiretronics warning lamp in the instrument cluster illuminates for any alert condition and also for low/high tire pressures and high temperature

8.35.21 4WD High Lamp



This lamp indicates that the vehicle is driving in the 4WD high gear. Driving in this mode gives more traction while driving on cross-country roads .

8.35.22 4WD Low Lamp



This lamp indicates that the vehicle is running in the 4WD low gear. Driving in this mode gives maximum traction while driving on all adverse conditions.

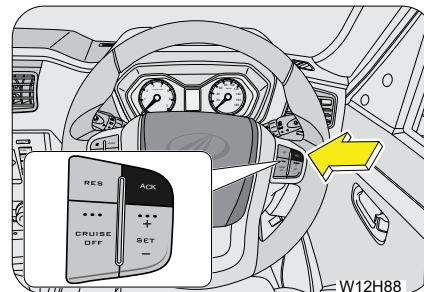
8.36 Voice Messaging System (VMS)

A state-of-the-art system, the Voice Messaging System (VMS) is provided to monitor and announce various warnings in your Scorpio. This is in addition to the warnings on the instrument cluster. VMS is a unique gadget, which provides security to you and your Scorpio. It monitors 7 fault signals from your Scorpio.

Terminology

- **One driving cycle** -A cycle between one start to the next starting of the engine, i.e. IGN Key: OFF ⇒ ON ⇒ START ⇒ OFF
- **1st Ignition ON** - Unit is powered UP for the first time and the ignition is turned ON
- **Message** -All the messages will be announced through the front right speaker, by disconnecting the speaker from the audio system, even when the audio system is playing

To acknowledge a message or an alert press the “ACK” button on the steering wheel switch bank.



8.36.1 Logic Requirement for VMS in Infotainment

The infotainment system will receive the required signals, will analyze the signal and announce the respective warning along with visual alert in infotainment display screen.

Receiver: Infotainment System (IS ECU)



1. Door Ajar Alert (Voice alert – Common for all doors/visual alert shown in display)

Condition	Required Action in IS ECU	Alert
Condition 1: Any door open and vehicle Speed >10 kmph	If condition 1 is TRUE announce the warning once	Both voice and visual (If acknowledged no repetition of alert in the same ignition cycle even if fault is not removed. Alert will be announced in the next driving cycle if fault still continues.)
Condition 2: Condition 1 + 300 m of vehicle Travel	If condition 2 is TRUE announce the warning once	

2. Low brake fluid alert (Voice alert announced/visual alert shown in display)

Condition	Required Action in IS ECU	Alert
Condition 1: If brake fluid level is low than the required level	If condition 1 is TRUE announce the warning twice at an interval of 2 sec (calibratable) (vehicle not moving)	Both voice and visual (If acknowledged no repetition of alert in the same ignition cycle even if fault is not removed.)
Condition 2: Condition 1 + vehicle speed >10 kmph	If condition 2 is TRUE announce the warning twice at an interval of 2 sec (calibratable)	
Condition 3: Condition 2 + distance covered >5 km	If the condition 3 is TRUE (after second announcement) announce the warning twice at an interval of 2 sec (calibratable)	



3. Seat belt alert (Voice alert announced/visual alert shown in display)

Condition	Required Action in IS	Alert
Condition : If driver seat belt is disengaged/open and vehicle speed > 10 kmph (even if seat belt was fastened and removed while vehicle speed > 10 kmph)	If the condition is TRUE announce the warning once	Both voice and visual (If acknowledged no repetition of alert in the same ignition cycle even if fault is not removed.)

4. High engine temperature alert (Voice alert announced/visual alert shown in display)

Condition	Required Action in IS	Alert
Condition 1: If engine temperature is $\geq 110^{\circ}\text{C}$ Condition 2: If engine temperature is $\geq 115^{\circ}\text{C}$ Condition 3: If engine temperature is $\geq 119^{\circ}\text{C}$ (Engine temperature value to be kept calibratable)	- If condition 1 is TRUE announce the warning twice at an interval of 30 sec (calibratable) - If condition 2 is TRUE announce the warning twice at an interval of 30 sec (calibratable) - If condition 3 is TRUE announce the warning twice at an interval of 30 sec (calibratable)	Both voice and visual (If acknowledged no repetition of alert in the same ignition cycle even if fault is not removed.)



5. Low oil pressure [Voice alert announced/visual alert shown in display]

Condition	Required Action in IS	Alert
Condition 1: If oil pressure is low and engine RPM (or engine speed) >800 RPM	If condition 1 is TRUE announce the warning twice at an interval of 2 sec (calibratable)	Both voice and visual (If acknowledged no repetition of alert in the same ignition cycle even if fault is not removed.)
Condition 2: Condition 1 + vehicle speed >10 kmph	If condition 2 is TRUE announce the warning twice at an interval of 2 sec (calibratable)	

6. Hand brake [Voice alert announced/visual alert shown in display]

Condition	Required Action in IS	Alert
Condition 1: If hand Bbrake is engaged and vehicle speed >10 kmph	If condition 1 is TRUE announce the warning twice at an interval of 2 sec (calibratable)	Both voice and visual (If acknowledged no repetition of alert in the same ignition cycle even if fault is not removed.)
Condition 2: 1+ 100 m of vehicle travel	If condition 2 is TRUE announce the warning twice at an interval of 2 sec (calibratable)	

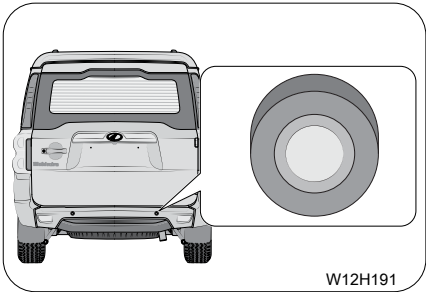


7. Reserve fuel warning [Voice alert announced/visual alert shown in display]

Condition	Required Action in IS	Alert
Condition 1: Low fuel tell-tale ON and 50 <DTE<= 75km	If condition 1 is TRUE announce the warning twice at an interval of 2 sec (calibratable)	Both voice and visual (If acknowledged no repetition of alert in the same ignition cycle even if fault is not removed.)
Condition 2: Low fuel tell-tale ON and 25<DTE<= 50km	If condition 2 is TRUE announce the warning twice at an interval of 2 sec (calibratable)	
Condition 3: Low fuel tell-tale ON and <DTE<=25m (DTE value to be kept calibratable)	If condition 3 is TRUE announce the warning twice at an interval of 2 sec (calibratable)	

8.37 Reverse Parking Assist System (RPAS) – Type 1

Reverse parking assistance system is provided to aid the driver while parking the vehicle in reverse at a speed of less than 5kmph. While reversing, RPAS will detect the obstacles at the rear side of the vehicle within the sensing zone, which cannot be viewed through the internal rear view mirror and the outside rear view mirrors. The RPAS will then alert the driver by a beep sound about the location of the detected obstacle and the distance from the vehicle. The alert sound level will vary proportional to the distance. Smaller the distance shorter the interval between the beeps.



Two RPAS sensors are located at the rear bumper to provide complete rear view to the driver for hassle free parking.



⚠ NOTICE

Magnetic devices present in the detection range could vastly affect the sensor performance and the distance displayed may not be accurate.

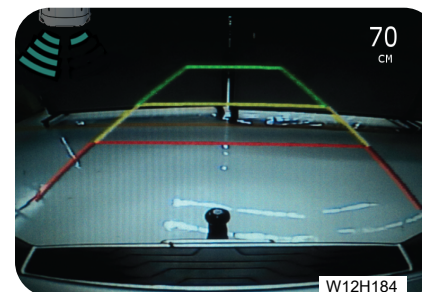
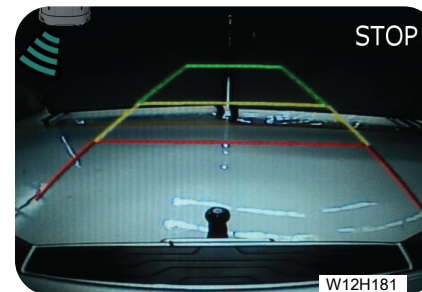
Always keep the sensors clean and free from ice formation, dust, water etc. for proper working of the system.

⚠ CAUTION

- *RPAS is an aiding system. Under no circumstances Mahindra will accept any responsibility or can be held liable for any direct or indirect, incidental or consequential damage caused by this system*
- *System will not sense pot holes, trenches or drainages which are below the ground level*
- *Repainting of the sensor will affect the performance of the system.*

- When the obstacles comes in the sensing range, the systems starts giving the indication based on the distance and direction of the obstacles as defined in the detecting zones. The closer the obstacles, more display bars illuminated & beeps alerts.

RPAS Information on Infotainment Screen



8.37.1 Activation & de-activation of RPAS

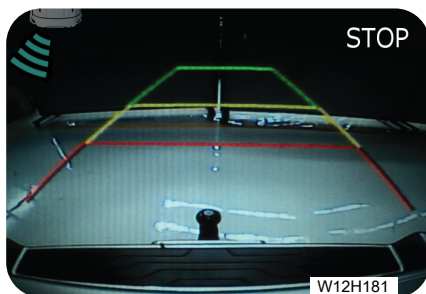
- The Vehicle should be in IGN ON state to activate the reverse parking assistance system.
- RPAS will be activate automatically when reverse gear is engaged and deactivate when reverse gear is disengaged.

RPAS display on the infotainment screen gives the following information:

- Left zone indicates obstacle on the left hand side
- Right zone indicates obstacle on the right hand side

Display bars 1, 2, 3 and 4 indicate how close the obstacle is from the vehicle rear bumper, with bar 1 being very close and bar 4 being distant.

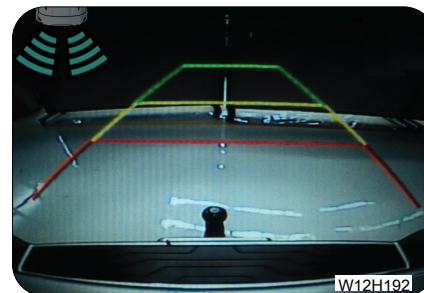
Distance indicator will display a STOP! Symbol, if the obstacle is less than 50 cm from the vehicle rear bumper.



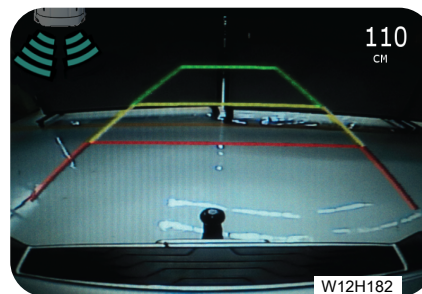
Operation of RPAS

1. Start the vehicle
2. Change the gear from neutral to reverse

The RPAS will be displayed as like below in the infotainment screen.

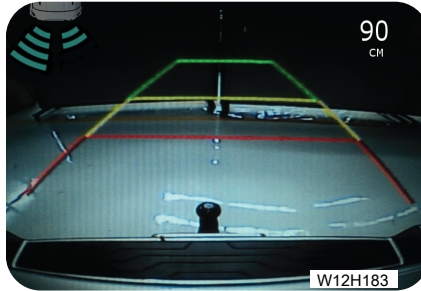


3. Start moving the vehicle in the reverse direction
 4. Display bars in the respective direction will glow according to obstacles in its path
- If the obstacle is between 100 to 120 cm, bar 4 will be turned Off

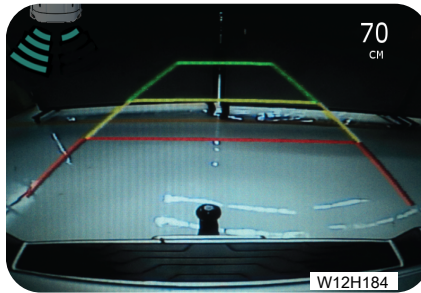




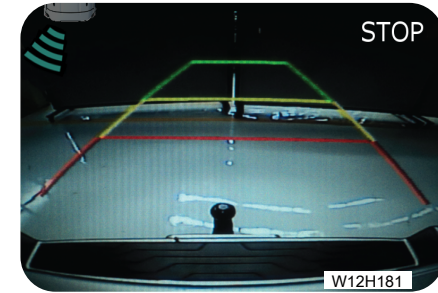
- If the obstacle is between 75 to 100 cm bar 3 & 4 will be turned OFF



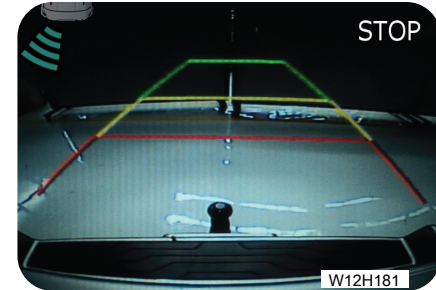
- If the obstacle is between 50 to 75 cm bar 2, 3 & 4 will be turned OFF



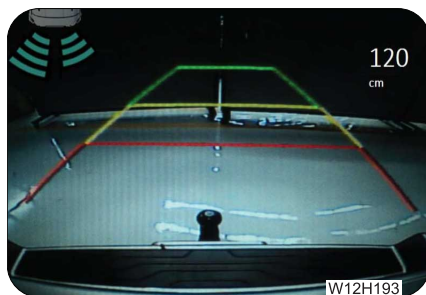
- If the obstacle is less than 50 cm all bars in that direction will be turned OFF and a STOP symbol will be displayed



5. Distance indicator will display the distance of the closest object.
6. The Beep sound can be heard from the driver side speaker. Frequency of the beep will increase if obstacle comes closer [crossing each display bar] and the sound will be continuous if any of the obstacle is less than 50 cm.



7. The RPAS distance displayed will be the minimum of distances sensed by left and right sensors. And 120 cm is the maximum detection range.

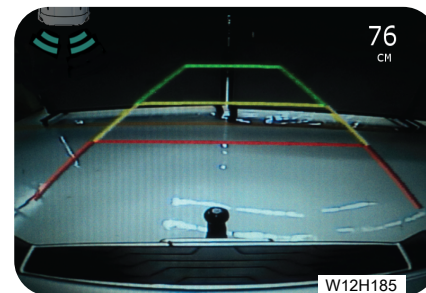


For Example:

Assume 2 obstacles are placed as mentioned below.

- Obstacle at left at 76 cm
- Obstacle at right at 98 cm

On engaging the gear in reverse, infotainment will display as below.

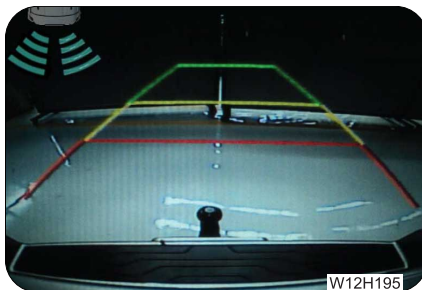


Since obstacle is at 76cm in right -minimum distance is shown in the distance indicator.

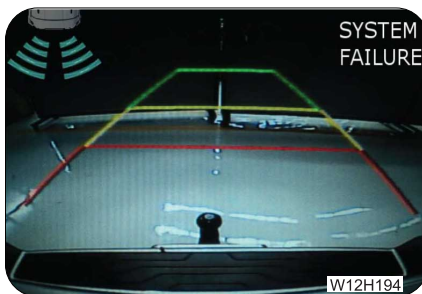
Along with this beep sound can be heard from driver side speaker. Frequency of the beep will increase if obstacle comes closer and the sound will be continuous if any of the obstacles is less than 50 cm.

**Pay Attention**

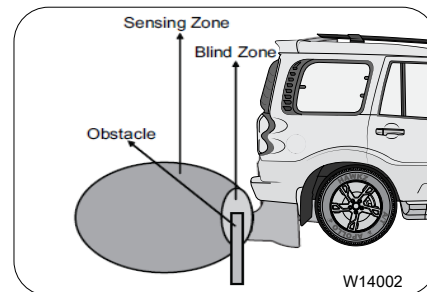
1. If display bars in any one of the sides are displayed with cross marks, contact an Authorized Mahindra Dealer.



2. If all display bars are displayed with cross marks, contact an Authorized Mahindra Dealer.

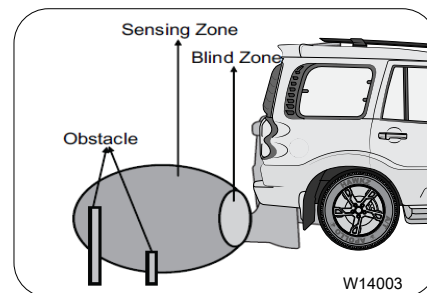


3. Obstacle in the blind zone cannot be sensed by the system.

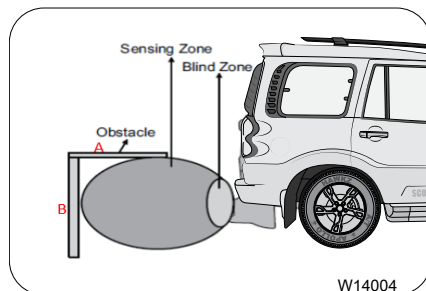


4. Please check the condition of the obstacle behind your vehicle before reversing. In some cases, the display may be not as same as reality due to the installed sensor level, obstacle shape and reflection condition.

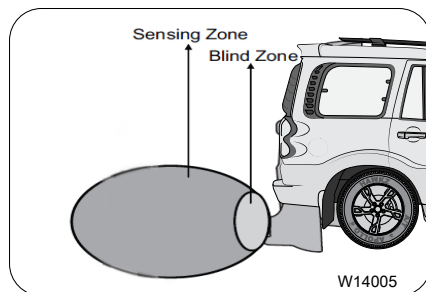
Some examples are given below.



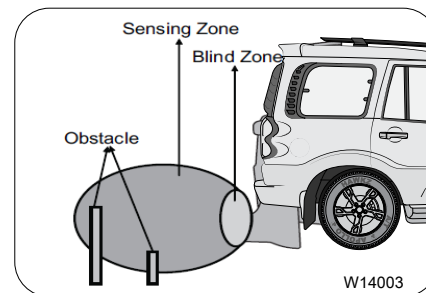
5. Point B will be detected sooner or later, but A may not be detected at all.



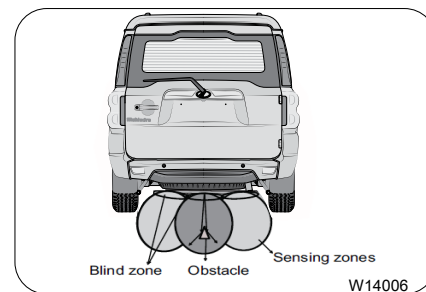
6. Not all obstacles are detected from 120 cm. For instance, a person is detected from 75 cm because of the weak reflection or absorption of the waves of the clothes.



7. The distance indication may move up and down due to different sizes of the obstacle at different positions.

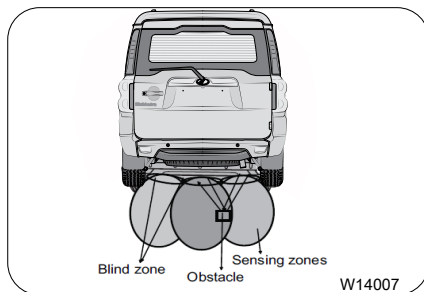


8. Though the obstacle is in the sensing zone, obstacle may not be detected since the ultrasonic waves are not reflected back to the sensor





9. The obstacle of a conical shape may not be detected, since the ultrasonic waves get reflected away



Limitations of RPAS

- System may not sense obstacles like wire mesh, handrail, small objects which are below the bumper level.
- System may not sense obstacles with cotton or spongy surface, which will absorb ultrasonic waves emitted by RPAS.
- System performance is dependent on the reflection angle of the obstacle
- System may give false alert with-out obstacles while reversing the vehicle on grasslands, gravels and bumpy roads considering it to be an obstacle.
- System may alert you by sensing the ground when the bumper is not fitted in its intended position or when the vehicle is overloaded.

- System may give false signal while the vehicle moves from plain ground to a slope terrain and vice versa
- System may give a wrong signal by sensing the ground when the bumper is tilted more from the normal position or when the vehicle is heavily overloaded
- System may give a false signal an alarm during heavy rain, snow and heavy wind conditions
- The shape of the obstacle may prevent a sensor from detecting it. Some obstacles for example as follows
- Sharply-angled objects
- Tall or curved curb
- Low obstacles [with height of 40 cm above ground level]
- Tall obstacles with upper sections projecting outwards in the direction of the vehicle
- Depending upon the shape of the obstacle and other environmental factors, the detection distance may shorten or detection may be impossible
- Obstacles may not be detected if they are too close to the sensor

8.38 Reverse Parking Assist System (RPAS) – Type 2

Reverse parking assistance system is provided to aid the driver while parking the vehicle in reverse at a speed of less than 5 kmph. While reversing, RPAS will detect the obstacles at the rear side of the vehicle within the sensing zone, which cannot be viewed through the internal rear view mirror and the outside rear view mirrors. The RPAS will then alert the driver by a beep sound about the location of the detected obstacle and the distance from the vehicle. The alert sound level will vary proportional to the distance. Smaller the distance shorter the interval between the beeps.

Two RPAS sensors are located at the rear bumper to provide complete rear view to the driver for hassle free parking.

! NOTICE

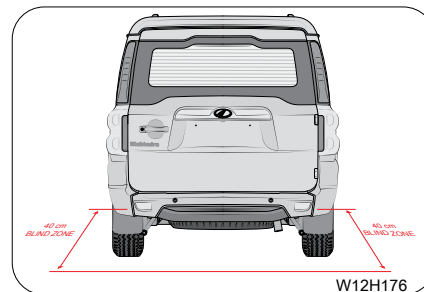
Magnetic devices present in the detection range could vastly affect the sensor performance and the distance displayed may not be accurate.

8.38.1 Working Principle

- On engaging the gear in reverse, the RPAS system gets activated automatically and the **'REVERSE'** text appears in the infotainment screen.

REVERSE

- When the obstacle comes in the sensing zone, the system starts giving the indication based on the distance of the obstacle. The closer the obstacle, more bars on either side of the screen are illuminated and if the obstacle distance is less than 50 cm from the vehicle rear bumper then the infotainment screen displays a **'STOP!'** symbol.



Operation of RPAS

- Start the vehicle (IGN is turned ON)
- Change the gear to reverse (engage the reverse gear). The **'REVERSE'** text will be displayed on the infotainment screen
- Start moving the vehicle in the reverse direction
- Display bars on either side of the screen illuminate according to obstacles
 - If the obstacle is between 100 to 120 cm,



- If the obstacle is between 75 to 100 cm,



- If the obstacle is between 50 to 75 cm,



- If the obstacle is less than 50 cm, a 'STOP!' text will be displayed



5. The alert sound can be heard from the driver and co-driver side speaker. Frequency of the beep will increase if obstacles comes closer (crossing each display bar) and the sound will be continuous if any of the obstacle is less than 50 cm

WARNING

If 'ERROR!' text is displayed on the infotainment screen, contact the nearest Authorized Mahindra Dealer.



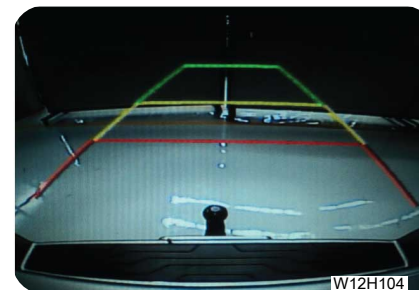
NOTICE

RPAS is an aiding system. Under no circumstances will Mahindra accept any responsibility or can be held liable for any direct or indirect, incidental or consequential damage caused by this system.

8.39 Rear View Camera

Introduction

The rear view camera is an optical parking aid. It shows you video with static parking guideline & dynamic parking guideline, the distance of the object detected automatically and displayed on the infotainment screen when reverse gear R is engaged, as shown in the figure.





As per the steering wheel movement, the dynamic parking guideline moves and shows the vehicle's actual moving direction for the user.

! NOTICE

Make sure that no persons or animals and any objects/ materials in the maneuvering area, which could damage the vehicle. As driver is legally responsible for the vehicle.

! WARNING

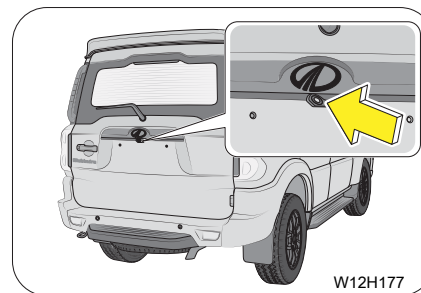
The reverse view camera is only a supplementary function,

- *May display an obstacle from a distorted perspective and inaccurately.*
- *Avoid using of rear view camera, if you are having eye color blindness or impaired color vision.*
- *Objects above the ground or hanged may appear to be far away than they actually are. But in reality objects shall be closer to vehicle. In such cases avoid using guide lines to judge the distance. Since it leads to miss-adjustments and increase the risk of collision with vehicle.*
- *It show the rear view image whenever reverse gear is engaged, but it cannot be used as a rear view monitoring system, which cannot replace the driver for looking in to exterior and interior view mirrors.*

! NOTICE

The rear view camera may not operate normally, when you drive in the extremely high or low temperature area. [Operating temperature: 20°C-65°C]

8.39.1 Camera Location



Reverse View Camera is located near license plate in the tailgate.

8.39.2 System Activation

Rear View Camera get's activated in engine running condition and if any of the below conditions occur;

- Reverse gear is engaged OR
- Gear Lever shifted to 'R' position OR



- User enter the Camera mode under CAR INFO tab.

8.39.3 System Deactivation

- Rear Camera shall be automatically deactivated whenever reverse gear is disengaged OR
- Ignition Off.

8.39.4 Rear View Camera functions

- Start the vehicle
- Press the clutch
- Engage the Reverse gear, “Video with static parking guideline” shall get automatically displayed on the infotainment screen.

Static Overlay	Description
Red	Distance from the rear bumper – from 0 to 1m
Yellow	Distance from the rear bumper – from 1m to 2m
Green	Distance from the rear bumper – from 2m to 5m

8.39.5 Do's and Don'ts

- It is always a good habit to keep the cameras lens clean from dust Presence of dirt can impair the quality.

- Always use clear water and soft non abrasive cloth to clean the lens.
- Don't clean the camera lens and the area around the rear view camera with a power washer.

8.39.6 Pay Attention

For the below conditions contact Authorised Mahindra Dealer

- If Camera is not working, then the Infotainment display will be shown with Blue screen with only RPAS distance information alone in the display
- If continuous **STOP!** message is displayed on the infotainment screen without any obstacle behind, then sensors may be malfunction contact Authorised Mahindra Dealer.
- If the distance is not displayed, and if the text **ERROR!** appears, all the sensors/ECU may not be working contact Authorised Mahindra Dealer.

8.39.7 Reverse View Camera Systems Limitations

Under certain circumstances given below, the rear view camera system will work with limitation or will not function fully.

- In heavy rain, snow or fog.
- At night or in very dark places



- If the camera is exposed to very bright light sources.
- Display may get flicker, if the camera area is lit by LED or fluorescent lighting
- If there is sudden change in temperature from cold to hot areas.
- If the camera lens got dirty or obstructed.
- If the rear of your vehicle got damaged and if the Camera position and the settings got changed contact the nearest Authorized Mahindra Dealer.
- Camera image is reproduced slightly delayed and not in real time due to processing. As the display is 2-dimensional, pointed, protruding obstacles are hard to depict and thus very difficult to recognize.

Avoid rear view camera in the above situations. It could cause personal injuries or damage objects and vehicle.

8.39.8 Rear Park Assist System

Reverse Park Assist System assist you when reversing the vehicle at lower speeds (<5 Kmph). It detects the obstacles behind your vehicle and send the distance information to Infotainment System.

It alerts you through a beep alert when it detect objects under 120cm and shall display with text **"STOP"** when the distance <=50 cm.

Object Detection

Whenever Reverse Gear engaged, the system will indicate the obstacles behind the vehicle for a distances up to 120cm from the rear bumper.

The system alerts you through a beep alert when the obstacle is at less than 120cm from the rear bumper. The beep sound alert increases when the vehicle gets closer to the obstacle.

8.39.9 Reverse Parking Assist System Limitations

- The system may not sense obstacles such as wire mesh, handrail, small objects which are below the bumper level.
- The system may not sense obstacles with cotton or spongy surfaces.
- The system may alert you by sensing the ground when the bumper/sensors is not in its intended position or when the vehicle is overloaded.
- The system will not sense pot holes, trenches or drainages which are below the ground level.
- Fitment of rear bull bar, spare tyre, vehicle footstep, tow hook or any accessories on the rear bumper and close to sensor vicinity on back side of the vehicle affects the performance of the system.



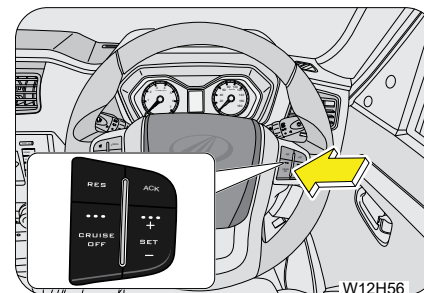
- The performance gets affected sometimes due to deposition of ice, dust, heavy rain, heavy wind, heavy exhaust on the sensors/Camera.
- Large buildings/objects with right angle and smooth walls, underground garages hanging objects in the parking areas can't be detected by the system.

NOTICE

Rear view Camera is only meant to aid the driver and to enhance convenience while parking. It does not in any way replace the driver's abilities and driving skills while using this system.

Under any circumstances Mahindra accepts no responsibility and cannot be held liable for any direct or indirect, incidental or consequential damage caused by the system.

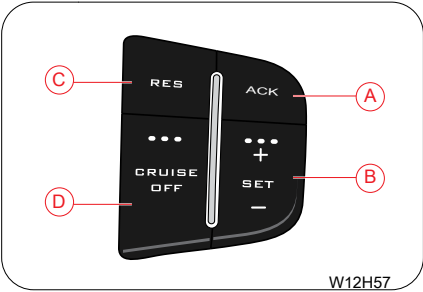
8.40 Cruise Control



Cruise control allows you to maintain a set speed without the need to keep your foot on the accelerator pedal. It should be used for cruising on straight, open highways. Never use it for city driving, inclines, winding roads, slippery roads, heavy rain or in bad weather conditions.

It works on the closed loop system principle to maintain the set speed of the vehicle; the system controls the fuel injection of the engine in order to maintain the set speed.

Cruise control enhances your comfort while driving and allows you to effortlessly maintain the desired lane speed limit. Improper use of the cruise control can lead to an accident.



A	VMS	C	RES
B	SET + / -	D	CRUISE OFF

Cruise control will function only under the following conditions;

- The vehicle is cruising above 40 kmph
- Engine RPM above 1200 RPM
- Vehicle is in any gear except 1st or reverse
- Clutch pedal released
- Brake pedal released
- Cruise is activated first time in an ignition cycle by SET + / SET- button
- Subsequent cruise engagements can be done by RESUME SET+ /SET- buttons in the same ignition cycle

Cruise control is deactivated under the following conditions;

- CRUISE button is pulled
- Brake or clutch pedal depressed
- If the vehicle speed exceeds the cruise set speed by 30 kmph by accelerator pedal intervention
- If the vehicle speed is increased by 10 kmph for more than 30 sec. by pressing the accelerator pedal
- When Set+ /Set- switch is pressed for more than 12 sec. (In this case the vehicle will not go into cruise mode in that ignition cycle. In order to restore the cruise function, switch OFF the ignition, wait for 30 sec. and switch ON the ignition)
- Cruise influencing error indicated by check engine lamp, OBD lamp, etc.

Cruise Control Activation

Drive the vehicle to the desired cruising speed (any value greater than 20 kmph), press and hold the SET + button until the cruise lamp in the instrument cluster illuminates. If cruise is deactivated (eg. by depressing brake to handle an intervention in the road etc.), in current driving cycle, reactivate the Cruise to the last active cruise speed by pressing the RESUME button.

⚠ NOTICE

Cruise control may not hold the set speed when you are going uphill or downhill, and the vehicle may come out of cruise



control. This is indicated by the cruise lamp going OFF in the instrument cluster.

Cruise Control Deactivation

You can cancel cruise control in any of the following ways;

- Pull the CRUISE button in the steering wheel
- Press the brake pedal
- Press the clutch pedal

SET+ Button

The SET + button is used to activate cruise control and also to increase the cruise set speed.

To increase the speed in very small amounts, press the SET + button. Each time you press it, the cruise set speed increases by about 1 kmph.

When you wish to continuously increase the cruising speed, press and hold the SET + button and release when the desired speed is reached.

SET- Button

To decrease the speed in small amounts, press the SET- button. Each time you press it, the cruise set speed decreases by about 1 kmph.

When you wish to continuously decrease the cruising speed, press and hold the SET- button. When the desired speed is reached, release the button.

NOTICE

Cruise control activation is advised above a vehicle speed of 40 kmph and is recommended to be used for 3rd gear & above. However Cruise Control is designed to operate above a vehicle speed of 20 kmph and for all gears except 1st & reverse gear. The cruise lamp in the instrument cluster functions only if cruise control is active.

WARNING

The cruise control is a convenience system designed to assist the driver during vehicle operation. The driver must at all times remain alert of road/traffic conditions and is responsible for the vehicle brake operation / steering control. Never activate cruise control in traffic or when driven in adverse road conditions [heavy rains, windy, slippery, etc.]

**RESUME Button**

With the help of RESUME, you can opt for the previous set cruising speed of the vehicle. This is best explained with the following example:

1. Assume, you have activated the cruise mode and set the vehicle speed at 50 kmph
2. Due to an obstacle or a sharp turn, you have deactivated the cruise mode either by pressing the brake pedal or by switching OFF the cruise control
3. Vehicle comes out of the cruise mode
4. When the road condition is suitable to switch over back to cruise control mode, press RESUME button once. The system

activates the cruise control mode to the previous cruising speed of 50 kmph

5. To resume the previous cruise set speed, the vehicle speed should be above 20 kmph

Override Function

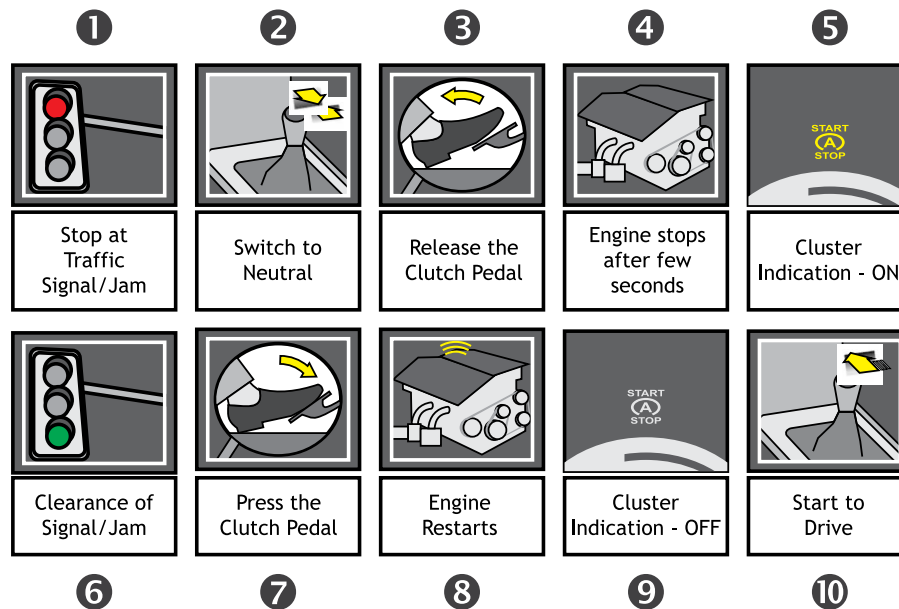
This function enables the user to ramp up the cruising speed to overtake the vehicle in front.

The cruising speed can be increased by using the accelerator pedal. The user has to complete this action within 30 seconds, to maintain the cruise mode. If the user exceeds the 30 second limit, cruise mode will be deactivated.



8.41 Micro Hybrid – Stop/Start System (if equipped)

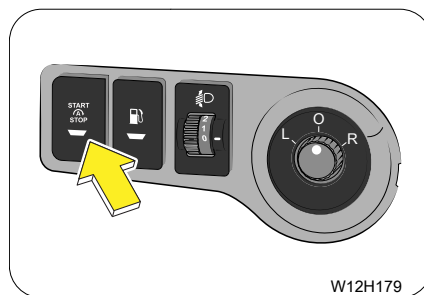
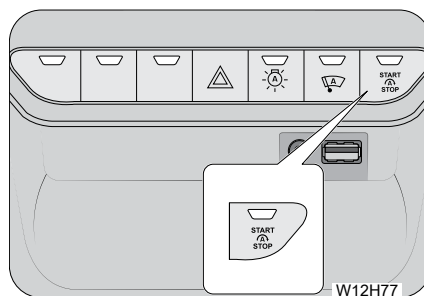
8.41.1 Overview of the Stop/Start System



8.41.2 How Does the Stop/Start System Work?

Let's take a simple example of driving in traffic conditions within your city. Assume that your vehicle has stopped at a traffic junction due to a red signal. The following steps illustrate how the system functions.

- The vehicle has come to a halt at a traffic signal, is in the neutral gear and the clutch pedal is released
- The 'Stop/Start' lamp in the cluster will blink indicating that the engine is going to stop shortly. The engine will shut down automatically after a specific time period





- The 'Stop/Start' lamp will illuminate in the instrument cluster indicating the engine was stopped by the Stop/Start system.
- Once the signal turns green, press the clutch pedal and the engine starts immediately
- The indicator in the cluster goes OFF indicating that the engine has started again and you are ready to drive on

For auto stop to happen the following major conditions are to be met

- Ensure Stop/Start system is active using the selection switch.
- Bonnet is fully closed
- In the current ignition cycle, the vehicle has crossed 20 kmph at least once
- Current status of the engine is idling
- Vehicle speed is zero
- Accelerator pedal and clutch pedal are fully released
- Vehicle battery should be in healthy condition
- Engine is warm. This is an extra precaution to ensure safe working of the engine
- Gear is in neutral

For auto start to happen the following major conditions are to be

- Vehicle should have been stopped by the Stop/Start system
- Gear lever is in the neutral position
- Vehicle speed is zero
- Stop/Start switch is in active mode
- Bonnet should be closed



- Clutch pedal is fully pressed (to restart)

8.41.3 Frequently Asked Questions (FAQ)

1. What is the advantage of this system?

The Stop/Start system aids in attaining better fuel efficiency of your vehicle and thus reducing your running costs. However, the mileage improvement will depend upon various parameters such as prevailing traffic, driving patterns, etc.

2. What are the other advantages of this system?

- Since the engine is switched off during traffic signals/ jams, considerable amount of carbon dioxide release to the atmosphere is avoided. This reduces global warming and thus provides us with a sustainable planet to live in.
- Ability to restart the engine by pressing the clutch pedal
- Reduces noise pollution at traffic signals

3. Is it possible to start the engine through the clutch pedal for the first time?

No, the engine can be cranked only with the ignition key for the first time. If the engine is stopped automatically by the system, only then it is possible to start the engine through the clutch

4. Whether the system will get activated as soon as the engine is started the first time with the ignition key?

The system will get activated only after the completion of engine temperature dependent warm up period which may extend up to 15 minutes. This is to ensure better performance of the engine in terms of fuel economy and durability.

5. Are there any safety precautions to be followed?

Yes, when the engine is turned OFF at traffic signals/jams with heavy electrical loads like head lamp or AC switched 'ON'. If the duration of such stops are long, it is recommended to keep the engine 'ON' and the Stop/Start system in 'OFF' position.

6. What is to be done, if I don't want the system to stop my engine at traffic signals/jams?



The system can be turned OFF by switching OFF the Stop/ Start selection switch.

7. Whether the A/C will function, if the engine is switched off?

No, the A/C will not work. However the blower will be in operation when the ignition is ON.

8. What will happen if I keep the clutch continuously pressed at traffic signals/jams?

The system will not stop the engine if the clutch is continuously pressed since it indicates the driver's intention of moving the vehicle immediately.

9. When the battery charge is low, whether the engine will be switched off?

If the battery charge drops below a certain level, the system will not stop the engine so as to preserve the battery from further draining.

10. Whether I will be able to operate the engine with the normal ignition key?

Yes, normal operation with the ignition key is always possible.

11. Whether the vehicle will start (or) stop in gear?

The vehicle will not start or stop automatically in gear to ensure safety. It will do so only in the neutral position of the gear shift lever.

12. Whether the system will stop my engine in moving traffic?

No, the engine will be stopped only when the vehicle speed is zero continuously for more than 2 sec.

13. Whether the audio system will be switched OFF, when the engine shuts down?

No, the audio system will not be switched OFF and you can continue to enjoy the music.

14. Whether the engine will re-crank whenever the clutch pedal is pressed?

No, when the engine is running, the starter motor will not attempt to re-crank.

15. If any component involved in the system fails, what will happen?



The system has a built-in diagnostic module which understands the failure and immediately goes to bypass mode. In the bypass mode the engine can be turned ON and OFF with ignition key as usual.

16. Are there any indications to show that engine does not stop due to poor battery charge state?

Yes, if all other conditions except battery charge are met, the Stop/Start lamp blinks faster for 7.5 seconds and the engine does not switch OFF.

8.42 FASTag (if equipped)

Your vehicle is fitted with a FASTag on front windshield. FASTag may be used for Electronic Toll Collection (ETC). Please connect with www.nhai.org site for updates and understanding.

NOTICE

Do not peel or remove the FASTag.



9 STEERING AND BRAKES

9.1 Steering

Your vehicle is equipped with power steering. Power steering uses energy from the engine to decrease the driver's effort in steering the vehicle. The power steering system will give you good vehicle response and increased ease of maneuverability in tight spaces. If for some reason the power assist is interrupted, it will provide mechanical steering capability to steer the vehicle. Under these conditions, you will observe a substantial increase in steering effort, especially at very low vehicle speeds and during parking maneuvers.

NOTICE

Upon initial start-up in cold weather, the power steering pump may produce noise for a short amount of time. This is due to the cold, thick fluid in the steering system. This noise should be considered normal, and it does not in any way damage the steering system.

WARNING

Continued operation with reduced power steering performance could pose a safety risk to yourself and others. Have the vehicle serviced at specified intervals or whenever a power steering problem is noticed.

When driving in rough/off roads, hold the steering wheel rim, do not hold the wheel spokes. A sudden bump can jerk/ turn

the wheel and injure your hand. This may also lead to loss of vehicle control.

NOTICE

Keep both hands on the steering wheel, with the thumbs resting on the outer wheel rim.

To help prevent damage to the power steering pump:

- Never hold the steering wheel to the extreme right or the extreme left for more than a few seconds when the engine is running
- Heavy or uneven steering efforts may be caused by low power steering pump fluid level. Check the low power steering pump fluid level before seeking service from an Authorized Mahindra Dealer
- Do not fill the power steering pump reservoir above the MAX mark on the reservoir, this may result in leaks from the reservoir

NOTICE

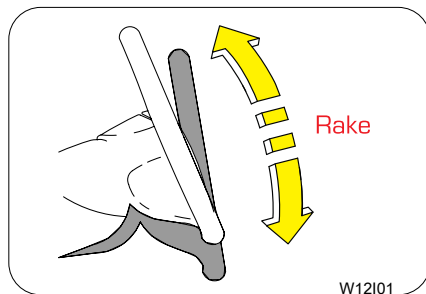
If the power steering system breaks down (or if the engine is turned OFF), you can still steer the vehicle manually, but it takes more effort.

If the steering wanders or pulls, check for:

- Under inflated tire(s) on any wheel(s)
- Uneven vehicle loading

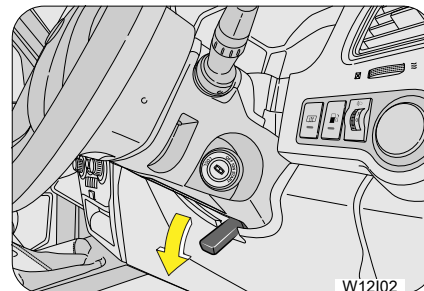
- High crown in the center of the road
- High crosswinds
- Wheels out of alignment
- Wheels out of balance
- Loose or worn suspension components

9.2 Tilt Steering



The steering wheel can be adjusted for rake as required using the lever in the steering shroud under the steering wheel.

To tilt/adjust the steering wheel;



1. Ensure the vehicle is stationary and parking brake engaged
2. Pull the steering tilt lever down to unlock
3. Raise or lower the steering wheel to the desired position
4. Push the lever back up to its original position to lock the steering
5. Adjust the seat according to the steering wheel position

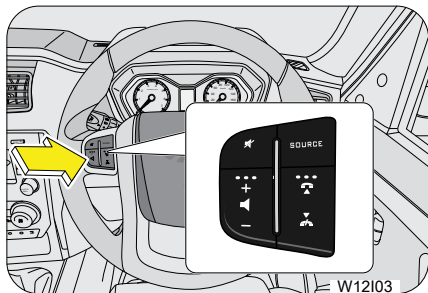
WARNING

An improperly locked steering wheel could cause loss of control and lead to accidents. Never adjust the steering wheel while driving.



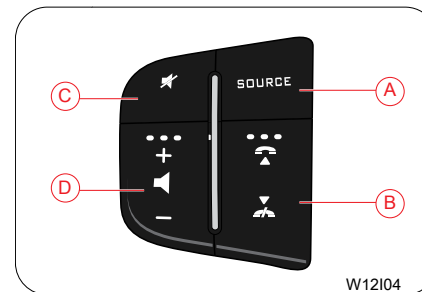
9.3 Steering Controls - Audio Control System

Audio control through the steering wheel switches/buttons helps the driver to operate the audio system from the steering wheel without losing concentration. The system has four switches which are mounted on the steering wheel.



NOTICE

Refer to the Audio/Infotainment Manual for complete information on audio controls and features. The map upgradation details are also available in the Infotainment manual.



A	Source	C	Mute
B	Seek/Call Receive /Disconnect	D	Volume (+) & Volume (-)

Source

The source button switches between different modes in the audio system.

When the source button is pressed once, the next source is chosen in the following sequence, provided the required media is connected.

Tuner ⇨ CD/MP3 ⇨ USB - Auxiliary

In case of the absence of modes USB/CD, the system will toggle between Tuner and Auxiliary modes.

In case if the CD is loaded in audio system, then the sequence will be Tuner ⇨ CD ⇨ AUX

**Seek/Call Receive/Call Disconnect**

Press the SEEK switch once to increase radio reception frequency by 0.05MHz. Press the SEEK switch continuously for more than 3 Sec for AUTO scan of radio stations. In CD/SD CARD/USB modes, the next track can be selected by pressing the switch once.

This button can also be used to receive or disconnect calls while connected through Bluetooth.

Mute

Press the Mute button to mute the audio. Press again to Un-mute.

Volume (+) and Volume (–)

To increase the volume by one point press the (+) button once. To decrease the volume by one point press the (–) button once.

 NOTICE

If the steering wheel audio control switches do not work, you can still control the system through the infotainment system or with the remote (if equipped).

9.4 Brakes

Your vehicle is equipped with disc brakes in the front and drum brakes in the rear [for XUV rear is also disc].

Disc brakes offer good braking capability and reduced stopping distance. Wet brake discs result in reduced braking efficiency. After a car wash or driving the vehicle through water, pump the brake pedal mildly while driving to remove the film of water from the brake pads.

Brake pads feature wear indicator. When the front brake pad is worn, then there is an indication in the cluster; the brake lamp will be ON (only in XUV). For all other vehicle the brake pads a metallic squeal noise is heard indicating the pad wear. Have them replaced immediately.

 WARNING

Driving with wet brakes is dangerous. Stopping distance increases considerably when braking.

Dry the brakes by driving at very slow speed and applying the brakes lightly until the brake performance becomes normal.

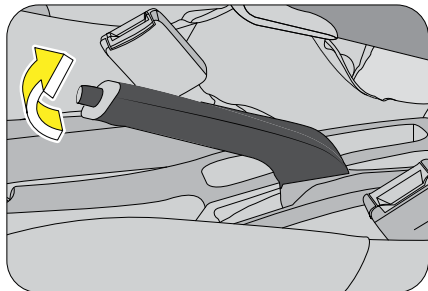
 CAUTION

Even if the power assist (vacuum assistance) is completely lost, the brakes will still work. The brake pedal would be much harder than normal and the vehicle stopping / braking distance will be longer than usual.

9.4.1 Parking on a Hill/Incline

If you have to park facing uphill, select first gear and turn the front wheels away from the kerb. If you have to park facing downhill, select reverse gear and turn the front wheels towards the kerb. Always ensure that the vehicle is in gear and parking brakes is engaged before leaving the vehicle.

9.4.2 Parking Brake



To apply the parking brake, pull the park brake lever up as firmly as possible. When the parking brake is applied with the ignition ON, the brake warning lamp in the instrument cluster illuminates. To release the parking brake, pull the parking brake lever up slightly, press the release button on the lever tip and lower the parking brake lever completely.

NOTICE

The brake warning lamp indicates only the parking brake status. It does not indicate the degree of brake application. Be sure the parking brake is firmly set when parked and the gear shift lever is in gear. When parking on a hill ; first apply the Parking brake ; after that shift the TGS lever to the P position (for AT) and gear for MT. This will avoid the load on the transmission locking mechanism may make it difficult to move the shift lever out of gear.

CAUTION

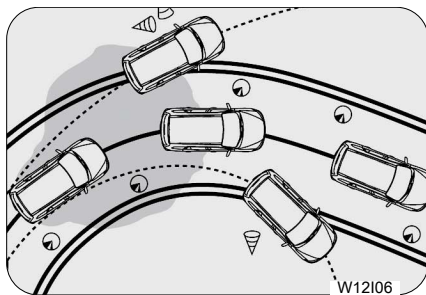
Be sure the parking brake is fully disengaged before driving off. Failure to do so can lead to brake problems due to excessive heating of the rear brakes. It will also result in reduced fuel efficiency; lowered brake pad life and rear brake squeal.

- *The parking brake should be adjusted as per recommended maintenance schedule*
- *Always apply the parking brake when leaving the vehicle, and be certain to leave the transmission in gear. Failure to do so may allow the vehicle to roll and cause damage, hit a bystander resulting in personal injury.*
- *Leaving unattended children in a vehicle is dangerous for a number of reasons. Children should be warned not to touch the parking brake or the gear shift lever. Do not leave the key in the ignition. A child could move the vehicle leading to accidents*

- *The parking brake should always be applied when the driver is not in the vehicle.*

Engaging the parking brake while the vehicle is in motion can cause the rear wheels to lock up. You could lose control of the vehicle and cause an accident.

9.5 Anti-Lock Brake System (ABS) (if equipped)



The Anti-lock Brake System (also called as ABS) is designed to help prevent lock-up of the wheels and stable stopping of vehicle during a sudden, panic emergency braking or braking on slippery road surfaces. The ABS system takes input from wheel speed sensors and brake pedal switch to control the brake fluid pressures at the wheels to avoid wheel lock-up. It allows vehicle to be steered during braking.

The minimum speed for ABS to function is 12 kmph. ABS is activated only during wheel lock conditions where ABS takes over and prevents wheel lock. During the ABS operation, a slight pulsation may be felt in the brake pedal to indicate ABS is active. You may also hear motor noise from the engine compartment. It is recommended to hold the brake pedal firmly while the ABS is active rather than pumping the brake pedal.

Depressing the brake pedal on slippery road surfaces as on a manhole cover, a steel plate at a construction site, a joint in a bridge, etc. on a rainy day, tends to activate the anti-lock brake system. The ABS warning lamp lights up when you switch ON the ignition and should go out after a few seconds. If the ABS warning lamp does not go out or if it comes ON while driving, it means there is a fault in the ABS system. In both cases, the normal braking system remains efficient, exactly as on a vehicle without ABS.

The vehicle should be examined as soon as possible by an authorized Mahindra dealer. The Anti-lock brake system is not designed to shorten the stopping distance: Always drive at a moderate speed and maintain a safe distance from the vehicle in front of you. The stopping distance may be longer in the following cases:

- Driving on rough, gravel or snow covered roads.
- Driving with tyre chains installed.
- Driving over the stpng such as the joints on the road.



- Driving on roads where the road surface is pitted or differences in surface height.



The ABS warning lamp lights up when you switch ON the ignition and should go out after a few seconds. If the ABS warning lamp does not go out or if it comes ON while driving, it means there is a fault in the ABS system. In both cases, the normal braking system remains efficient, exactly as on a vehicle without ABS. The vehicle should be examined as soon as possible by an authorized Mahindra dealer.

WARNING

Do not overestimate the Anti-lock Brake System: Although the Anti-lock Brake System assists in providing vehicle control, it is still important to drive with all due care and maintain a moderate speed and safe distance from the vehicle in front of you. There are limits to the vehicle stability and effectiveness of steering wheel operation even with ABS active. If tyre grip performance exceeds its capability, or if hydroplaning occurs during high speed driving in the rain, the Anti-lock Brake System will not assist with vehicle control.



10 HEATING, VENTILATION AND AIR-CONDITIONING SYSTEM (HVAC)

10.1 Heating, Ventilation And Air-Conditioning System (HVAC)

The climate control system enables you to set the cabin at the desired comfortable condition by controlling airflow, air intake and temperature control. The HVAC system also helps in defrosting and defogging/de-misting the windshield and windows.

Engine coolant is utilized to heat the cabin air. For cooling cabin air, an air conditioning circuit based on the vapor compression refrigeration cycle is used. The air conditioning system uses a refrigerant along with a suitable lubricating oil. Although being non-ozone depleting, the refrigerant is a greenhouse gas, hence once allowed to escape in the atmosphere, it adversely affects the environment by contributing to global warming/climate change.

Multiple vents are provided for distributing the air, being force circulated by the HVAC blower, throughout the passenger compartment. Various ducts supply air from the HVAC unit to these vents having adjustable louvers.

WARNING

Refrigerant used in the system is a hazardous liquefied gas and is under high pressure. The refrigerant is colorless and has ethereal or faint sweetish odor. Exposure of refrigerant to the

skin or eyes may cause irritation and frostbite. It can also cause suffocation, dizziness and loss of concentration. When mixed with compressed air or certain other refrigerants, it may form a flammable mixture. Never try to service the HVAC system yourself which would involve refrigerant handling.

NOTICE

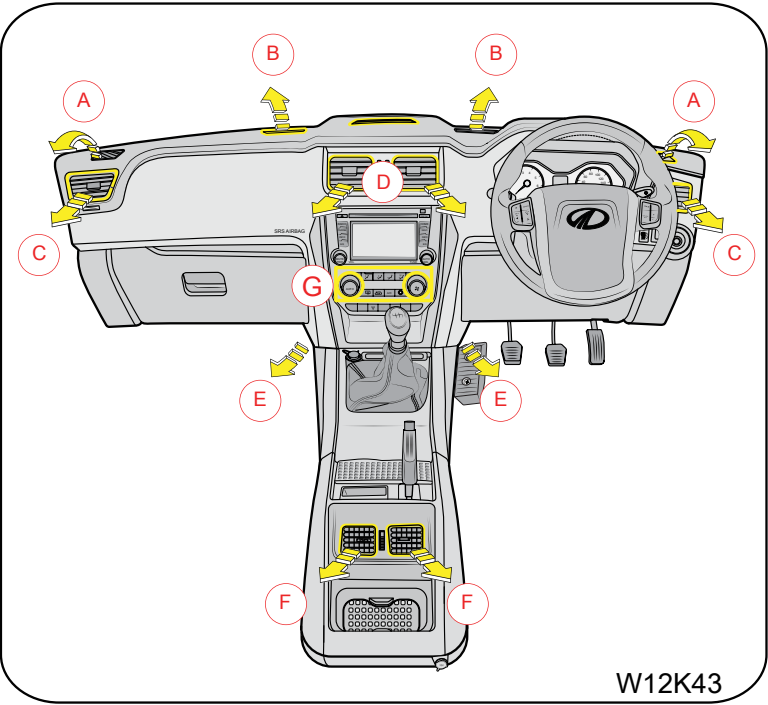
To ensure sufficient air flow and hence adequate HVAC system performance, the air flow path should be kept free of obstructions. Keep the system's air intake, located near the plenum appliqué, free of snow, leaves and other debris. Also keep the area in front of the air vents free of any obstruction inside the cabin.

There are two types of HVAC systems in your vehicle depending on the variant.

- Automatic Climate Controller
- Manual Air Conditioner



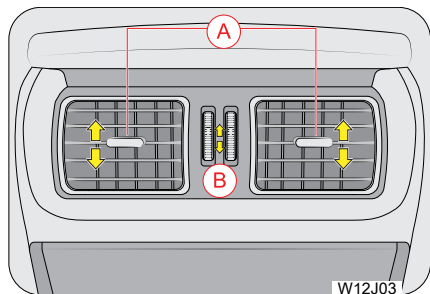
10.2 HVAC Overview



A	Side De-misting Vents
B	Windshield Defrost Vents
C	Side Vents
D	Center Vents
E	Foot Vents
F	Rear Vents
G	Auto Climate / Manual Controller



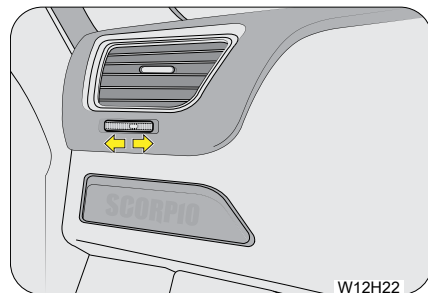
10.3 Center/Side Vents



A	Adjustable Louvers
B	Thumb Wheel (Open/Close)

Two center vents are located above the audio system. The two side vents are located one each at the left and right extreme ends of the instrument panel. Both the center and side vents provide air flow to the front seat passengers.

Rotate the thumb wheel (B) up to open or down to close the air vent. Direct air to the desired direction by the adjusting louvers (A) left/right.

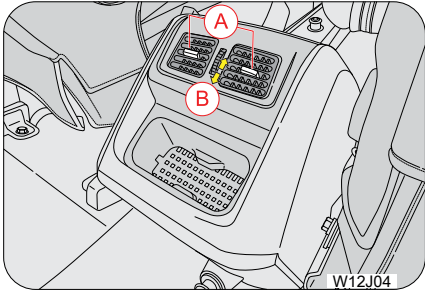


Rotate the thumb wheel right to open or left to close the air vent. Direct air to the desired direction by the adjusting louvers left/right.

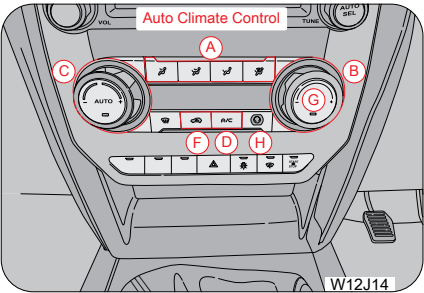
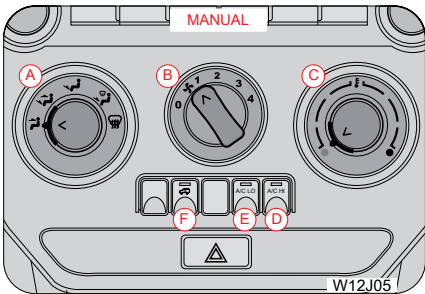


10.4 Second Row Floor Vents

Two vents for the second row are provided at the rear of the floor console. The vents have adjustable louvers (A) to direct the air flow and thumb wheels (B) for vents open/close operations.



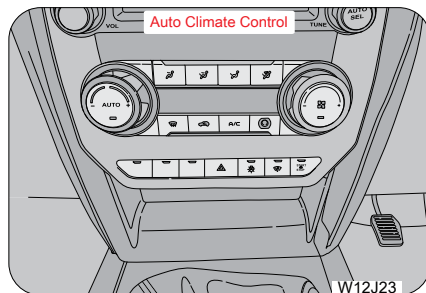
10.5 HVAC Controls



A	Air Distribution Control	E	AC Low ON
B	Blower Speed Control	F	Air Re-circulation Switch
C	Temperature Control	G	Blower ON/OFF
D	AC High ON / AC ON (Auto Climate Control)	H	In-Car Temperature Sensor (Do Not Touch)



10.6 Automatic Climate Controller

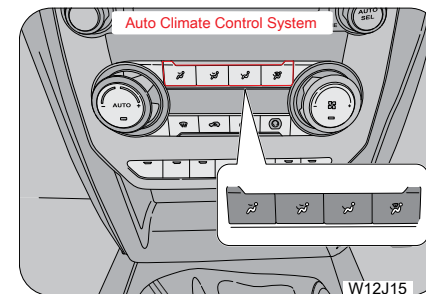
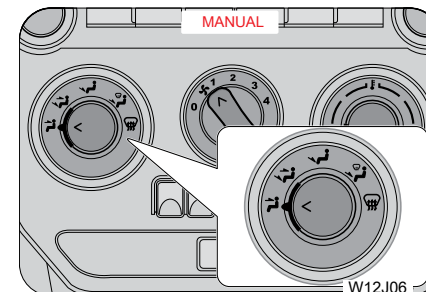


Your vehicle comes with an Automatic Climate Control system which automatically maintains the desired comfort level in the vehicle as directed by set temp. The temperature ranges from low (17oC) to high (32oC). The system automatically maintains the air flow, air mode and set temperature according to the outside temperature conditions. You can exit the auto mode by pressing the Auto switch or by changing the mode or by blower speed or by pressing full defrost. The controller has an LCD panel which shows the blower speed, set mode, set temperature, auto and AC status. Mode and AC status is indicated by the LED glow on the respective switches.

10.7 Air Distribution Control

The air flowing out of various vents can be controlled by the air distribution control knob/button.

Following are the five different distribution modes to choose from:

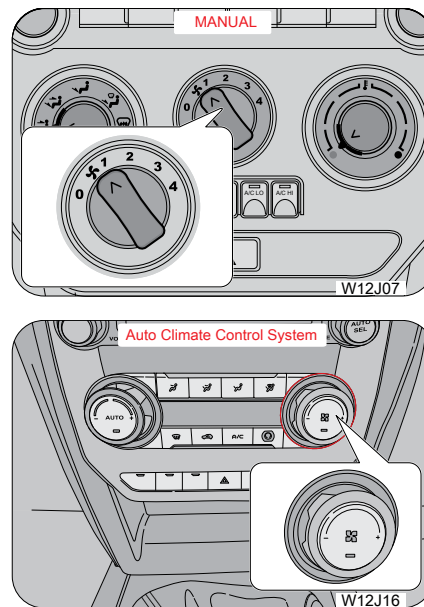


- Face Mode — air is discharged from the center vents, rear vents and side vents. This mode is most suitable for directing air flow towards the face of the passengers
- Face-Foot Mode — air is discharged from the center vents, side vents, rear and foot vents. This mode is most suitable for

directing air flow towards both the face and feet of passengers at the same time

- Foot Mode — air is discharged from the two foot vents and rear vents. This mode is most suitable for directing air flow towards the feet of passengers seated on front seats
- Foot-Defrost Mode — air is discharged from the foot vents, side defrost vents, rear vents and windshield defrost vents. This mode is most suitable for directing air flow towards the feet of passengers while defrosting or de-misting/defogging. Keep the air re-circulation in fresh air mode
- Defrost Mode — air is discharged from the side defrost vents and windshield defrost vents. This mode is most suitable for directing air flow towards the front windshield to ensure defrosting or de-misting / defogging. Keep the air re-circulation in fresh air mode

10.8 Blower Speed Control



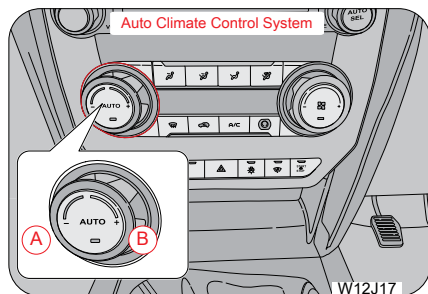
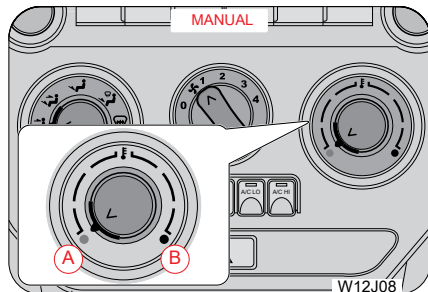
The blower force-circulates air through the HVAC unit and distributes it throughout the passenger compartment.

Blower is off` when the blower speed control knob is set in the '0'/'-' position. To switch-on the blower, rotate the control knob clockwise to position '1'/'+'. To increase the blower speed, rotate



the control knob clockwise further. To reduce the blower speed, rotate the knob counter clockwise and select a lower number.

10.9 Temperature Control



By operating the temperature control knob, temperature of air being discharged from various vents can be adjusted to the desired level. Engine coolant is utilized to heat, whereas the air conditioner is used to cool the air inside the AC unit. Based upon selected position of the temperature control dial, the desired discharged air temperature can be obtained.

By rotating the dial counter-clockwise and setting it to the extreme left position, cool air is discharged. When the dial is rotated clockwise, the discharged air progressively starts getting warmer. By rotating the dial further in the clockwise direction and setting it to the extreme right position, hot air is discharged.

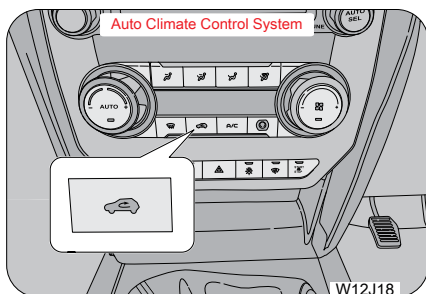
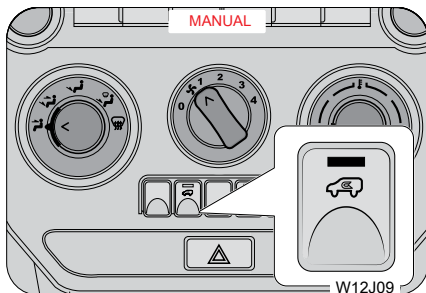
⚠ NOTICE

'-' represents cooling and '+' represents heating.

A	Cool Air
B	Hot Air

10.10 Air Intake Mode Control

By operating the air intake control switch, either fresh air mode or recirculated air mode can be selected.



10.10.1 Fresh Air Mode (Outside Air Mode)

To set the HVAC system to fresh air mode, keep the air intake control switch in the OFF condition. The lamp on this switch does not illuminate, indicating that the fresh air mode is active.

In this intake mode, fresh air from outside the vehicle is sucked by the blower and utilized further to ventilate/cool/ heat the cabin.

NOTICE

The re-circulation mode is activated by default every ignition cycle.

10.10.2 Re-circulation Mode (Re-circulated Air Mode)

To set the HVAC system to re-circulation mode, press the air intake control switch once. The lamp on the switch gets illuminated, indicating that re-circulation mode is active.

In this intake mode, the air from inside the passenger compartment will be sucked by the blower and utilized further to ventilate/cool/ heat the cabin.

Pressing the switch again will revert the system back to fresh air mode and lamp will go OFF.

For quick cabin cooling/heating or while driving through dusty/polluted regions, the recirculation mode can be selected. Driving



with this mode active may lead to better fuel economy and longer HVAC filter life.

However, running the air conditioner in the re-circulation mode for long will make the cabin air too dry and the oxygen level drops inside cabin turning the air stale. On the contrary, keeping air intake control in the recirculation mode for long, with the air conditioner switched OFF, will make the cabin air too humid and the windshield/windows are more likely to become foggy.

NOTICE

The re-circulation mode is activated by default every ignition cycle.

10.10.3 Auto Re-circulation

Auto Re-circulation logic is applicable to extreme cold and extreme hot setting of the temperature control system.

- In extreme cold setting — Forced re-circulation mode is activated automatically
- In extreme hot setting — Forced fresh air mode is activated automatically

To change to fresh air mode while in extreme cold setting;

- For manual climate control systems — Press the air intake control switch once, the fresh air mode is activated for next 20 sec, after which it switches back to re-circulation mode

automatically. To permanently switch to fresh air mode, press and hold the air intake control switch for 7 sec.

- For auto climate control systems — Press the air intake control switch once. It stays in this mode till you manually shift back to re-circulation mode.

The same logic is applicable to extreme hot setting also where fresh air mode is activated automatically.

10.11 HVAC Air Filter (Cabin Air Filter)

Your vehicle's HVAC system is equipped with an air filter at the blower inlet just behind the glove box. Before getting sucked-in by the blower, air passes through this filter element. Dirt and other foreign particles get trapped inside the filter. Clean air is then circulated through the HVAC unit and into the cabin.

The HVAC filter gets clogged after long use. The clogged filter will reduce the air flow rate, thereby the air-conditioning and heating efficiencies will be drastically reduced. Even the windshield/windows may begin to mist/fog-up easily.

To maintain optimum HVAC system performance, replace the filter element as per recommended maintenance schedule. However while operating in highly dusty or polluting conditions, the filter may require early replacement. If the air flow seems to have considerably reduced, get the filter replaced immediately.

To access the filter, open the glove box, remove the rubber pins on both sides of the glove box lid. Un-clip the filter retaining clip and remove the filter straight out. Discard the old filter and replace with a new filter. Follow the reverse procedure for putting the filter back.

! CAUTION

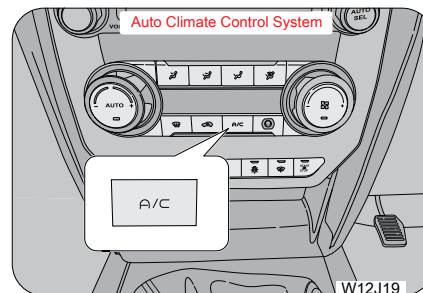
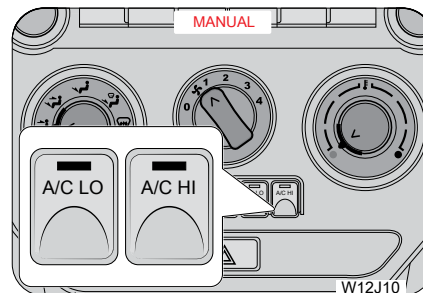
Do not clean or re-use old filter.

Never operate the HVAC system with the filter removed. This may result in premature failure of system components.

10.12 Air-Conditioner ON

The air conditioning system can be switched ON/OFF by operating the 'AC LO' and 'AC HI' switches for manual HVAC system and by AC button in auto climate control system. An indicator lamp is also incorporated on the switches. The air conditioner is operational only when both the engine and blower are running.

When the air conditioner is ON, air gets cooled and de-humidified before being circulated inside the cabin. In hot weather conditions, it will take slightly longer to cool the interior as compared to cooler weather. Fuel consumption will be relatively higher if the vehicle is being driven with the air conditioner.



! NOTICE

- In certain operating conditions when the engine gets overheated, the engine management system may switch off the air conditioner intermittently
- Occasionally the air conditioner might not actually be functioning even when the LED on the AC switch remains



illuminated. This is to be considered as normal AC system operation

- *During extreme cold weather conditions, the air conditioner may not function until the temperature of the air near the evaporator rises above a pre-defined threshold*
- *When the air conditioner is ON, moisture is extracted from the air. The resulting condensate is drained off from the vehicle. It is therefore normal, if you see a small pool of water under your vehicle*
- *The air conditioner should be operated at least for ten minutes once every fortnight, even during winter months. This allows the AC system components to get lubricated periodically and ensures optimum system performance*

NOTICE

In the manual HVAC system, the AC HI function has a lower temperature cut-off than the AC LO function.

- *For hot weather conditions or for rapid cooling, it is recommended to use AC HI. Switch over to AC LO once the cabin is cooled considerably*
- *For cold or normal weather conditions, it is recommended to use AC LO*

The following steps outline the procedure to switch ON the AC;

1. Adjust the blower speed as required.
2. Select the air distribution mode as desired.

3. Select the air re-circulation mode if required.
4. Press the AC HI/LO button [manual] or AC button [Auto Climate Control] to turn ON the AC.
5. Adjust the temperature control dial as per the temperature requirement.

NOTICE

Your vehicle is equipped with an HVAC filter. If the AC performance is considerably low, it is recommended have the HVAC filter checked at the nearest Mahindra Dealer.

10.13 Rapid Cabin Cooling

For rapid cooling of the cabin, the following AC settings are recommended:

1. Make sure that all the windows are fully closed
2. Set the blower to maximum speed
3. Fully open the vents and adjust louvers to direct air toward face
4. Set the air distribution control to face mode
5. Set air intake control to recirculation mode
6. Turn the air conditioner ON in AC HI mode [manual HVAC]
7. Set the temperature control knob to the extreme left [coolest] position



Once the passenger compartment reaches a comfortable temperature, shift to fresh air, AC LO mode (manual HVAC). Also blower speed and temperature control knob can be re-adjusted as desired.

NOTICE

If your vehicle was parked in the hot sun with all the windows closed, drive the vehicle with windows open for the first few minutes. This will help in venting the hot interior air out and allow the air conditioner to cool the cabin quickly.

10.14 Rapid Cabin Heating

For rapid heating of the cabin, the following AC settings are recommended:

1. Make sure that all the windows are fully closed
2. Set the blower to maximum speed
3. Set the air distribution control to foot mode
4. Set air intake control to recirculation mode
5. Set the temperature control knob to extreme right (hot) position
6. For dehumidified heating, switch the air conditioner ON in AC HI mode (manual HVAC)

Once the passenger compartment reaches a comfortable temperature, the blower speed and temperature control knob can

be readjusted as desired. Also if AC HI was selected earlier, you should shift to AC LO mode (manual HVAC).

NOTICE

In extreme cold weather conditions, the engine coolant takes time to get heated up. Hence it might take a while for hot air to discharge, even though the blower is running and the temperature control knob is set to the hot position.

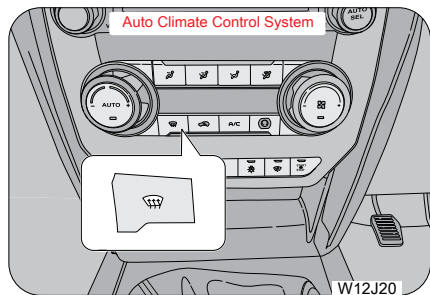
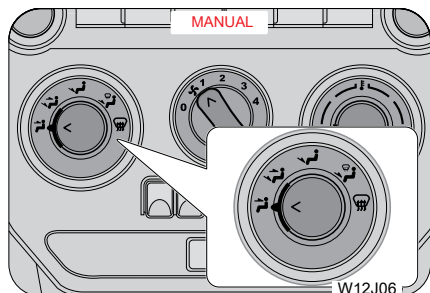
10.15 Defogging/De-misting and Defrosting

For keeping the front windshield and side windows clear, proper control of the HVAC system is essential.

Follow the instructions in the subsequent sections to clear the frosted/misted/ fogged up front windshield.



10.15.1 Front Windshield Defog



1. Set the blower to full speed
2. Switch the air conditioner ON
3. Set the air distribution control knob (manual HVAC) to defrost mode / press the defrost button (Auto climate control)
4. Select the fresh (outside) air intake mode

5. Adjust the temperature control knob to maintain comfort



NOTICE

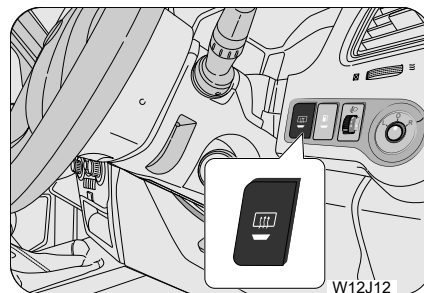
To defrost the outside windshield, follow the above steps but switch OFF the AC.

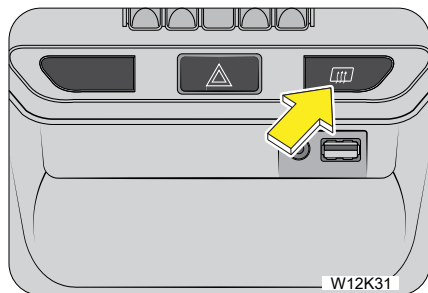


NOTICE

On humid days, do not blow cold air on the windshield and side window glass, the difference between the outside and inside cabin temperature could make the fogging worse.

10.15.2 Rear Windshield Defog (if equipped)





The rear windshield glass defogger button is located in the switch bank on the instrument panel RHS of steering, adjacent to the fuel lid button. Press the button once to activate the defogger. The LED on the button illuminates upon activation and the defogger heats the rear windshield clearing the fog. Switch OFF the defogger by pressing the button again as soon as the fog is cleared. The rear windshield defogger switches OFF automatically after a pre-defined time, based on ambient temperature.

10.15.3 HVAC Points to Remember

- For quickly clearing the misted/fogged/frosted-up windshield, set the blower speed to maximum. For quick defrosting, set the temperature to extreme hot
- Once the windshield is cleared, keeping the air conditioner ON leads to dehumidified cabin heating/cooling which helps in keeping windshields and windows clear. Keep the fresh air mode

selected. If required, re-adjust the blower speed and temperature control knob to maintain comfort. The temperature of air coming out of the vents should neither be too hot nor too cold

- Driving the vehicle for long with the air conditioner switched off may lead to windshield or windows getting misted/fogged up
- Driving the vehicle for long continuously in the recirculation mode may lead to windshield or windows getting misted/fogged up
- Do not blow cold air on the windshield and windows for long during humid weather. It could make windshield/windows mist/fog-up
- When on a long drive during warm humid/rainy weather, once cabin temperature becomes comfortable, shift to 'AC LO' mode, if using 'AC HI' mode earlier. Adjust the temperature knob such that air coming out of the vents is not too cold. Keep the fresh air intake mode selected. Shift to any distribution mode other than defrost mode. This will help in keeping windshields and windows clear
- For defogging/de-misting/defrosting the side windows at the front, select either Face or Face-Foot mode while directing air flow towards windows by adjusting the louvers of side vents. All other settings should be kept same as advised for windshield defogging/de-misting/defrosting
- For heating the vehicle interior while windshield defogging/de-misting/defrosting, select the Foot-Defrost mode. All other



settings should be kept same as advised for windshield defogging/de-misting/defrosting

- For quickly defogging/de-misting/defrosting the outside of the windshield, it is advisable to operate the windshield wiper/washer for a few times intermittently
- If snow has deposited on the windshield, use an ice scraper to remove the ice deposited before using the wiper
- In freezing weather, warm the windshield with the defroster before using the windshield washer. Also use a washer fluid with anti-freezing properties. This will help prevent the washer fluid from freezing on your windshield
- A dirty/contaminated windshield would make misting/fogging worse. Always keep the inside and outside of the windshield clean
- Reduced air flow because of a clogged HVAC filter or any other obstructions in the air flow path may lead to in-adequate defogging/de-misting/defrosting performance. If the air flow seems to have considerably reduced, get the filter replaced immediately. The air flow path should be kept free of obstructions
- Reduced cooling performance from the air conditioner may lead to inadequate defogging/de-misting/defrosting. If the cooling effect seems to have dropped considerably, get the air conditioning system checked by an Authorized Mahindra Dealer



11 STARTING AND DRIVING THE VEHICLE

11.1 Safety Tips - Before Starting Your Vehicle

11.1.1 General

- Before starting the vehicle, inspect the inside and outside of the vehicle ; look for any damages, leaks, loose parts, foreign objects/debris. Contact an Authorized Mahindra Dealer if required.
- Before starting your journey, check the working of all safety devices/components especially brakes, steering, lamps, signals and tires. In case you suspect any system/devices not working properly contact Authorized Mahindra Dealer.
- Adjust the seat headrest, steering wheel and fasten the seat belt as described in this manual. Never perform any seat/ steering adjustments when the vehicle is in motion.
- Start the vehicle only when seated and belted in the driver's seat.

NOTICE

The Engine Management System controls the engine's idle speed. When the engine starts, idle RPM runs higher than normal in order to warm the engine. The engine idle speed RPM reduces once the engine warms up.

WARNING

Never start your vehicle in a closed garage or in an enclosed area. Exhaust fumes can be toxic. Always keep the garage door open or start the engine in an open area.

11.1.2 Mirror Adjustment

Ensure that the rear view mirror and both the ORVM's are adjusted for an unobstructed view of the road behind.

11.1.3 Exterior Lamps

Have someone observe and confirm normal operation of all exterior lamps while you work on the controls from the driver seat. Also, check functioning of all lamps in the instrument panel.

11.1.4 Door Latches

Check for positive closing, latching, and locking of all doors, both from inside and outside.

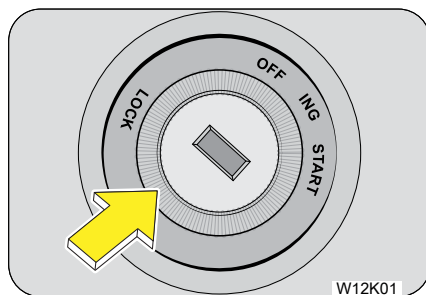
11.1.5 Fluid Leaks

Check the area under vehicle after an overnight parking for fuel, power steering fluid, brake fluid, engine coolant, oil, or other fluid

leaks. If leaks are observed, contact an Authorized Mahindra Dealer.

11.2 Ignition Switch

An illuminator ring is provided on the face of the ignition switch to help in locating the ignition switch at night. The ring will illuminate the moment the driver door is opened and will remain glowing till the driver door is closed.



The different positions of the ignition switch are;

LOCK — This is the ignition and steering lock position. The vehicle circuits and engine are completely switched OFF. The steering wheel is also locked and the key can be removed from the ignition only in this position.

OFF — The steering is unlocked and can be rotated. In this position all electrical circuits are enabled. Use this mode when you want to listen to music, etc., with the engine temporarily switched OFF.

IGN — All electrical circuits are enabled. Some of the warning or information lamps illuminate in this position. While some of the lamps will go out after a few seconds, some will continue to remain ON till the engine is started. When the vehicle is being driven, the ignition switch remains in the IGN position.

! CAUTION

Select the ignition ON position when the vehicle is being towed.

Do not leave the ignition ON for long when the engine is OFF. This could lead to battery drain and ignition switch damage.

START — This position is to start the engine by cranking the starter motor. This is a momentary position. When the key is turned to the start position, the starter cranks the engine. Once the engine is running, release the key, and the key reverts back to the IGN position and the starter motor disengages from the engine.

! CAUTION

Do not continue cranking after the engine has started. This will lead to damage of the starter and other engine components.



NOTICE

*If turning the key is difficult, jiggle the steering wheel from side to side and try again. The key can be removed only in the **LOCK** position. When the key is removed, the steering column lock is activated and the steering wheel cannot be turned.*

WARNING

*Never return the key to the **LOCK** position or try to remove the key, when the vehicle is in motion. Removing the key allows the steering wheel to lock. You will lose control of the vehicle and may cause a serious accident. Remove the key only when the vehicle is parked.*

11.3 Starting the Engine

Make sure all vehicle occupants are properly seated in their seats and have buckled their safety belts. For more information on seat, headrest positioning, safety belts and their proper usage, refer to the "Seat Belts" section in this manual.

NOTICE

Before cranking the engine

- *Make sure the gear shift lever is in neutral*
- *Make sure the parking brake is engaged. Turn the key to IGN position but do not turn the key to start*

- *Few warning lamps briefly illuminate. See "Warning Lamps in the Instrument Cluster" section for more information*

1. Shift the gear shift lever to neutral position.
2. Apply parking brake.
3. Turn the ignition ON.
4. Do not press the accelerator.
5. Turn the key momentarily to the START position to crank the
6. Once the engine starts, release the key; it will return to the IGN position

CAUTION

Do not continue cranking after the engine has started. This will lead to damage of the starter and other engine components.

7. If the engine fails to start, attempt to restart after about 10 seconds
8. If the engine fails to start even after repeated attempts as per the procedure given above, contact the nearest Authorized Mahindra Dealer

CAUTION

To prevent damage to the starter, wait 10 seconds before attempting to restart the engine.



⚠ WARNING

If the vehicle battery has discharged, use booster cables, a booster battery or a battery from another vehicle to start. Jump-starting a vehicle can be dangerous if done improperly. Refer to the "Jump-starting procedure" section in this manual.

If the engine still fails to start, contact an Authorized Mahindra Dealer for assistance.

The idle speed is controlled automatically and it will decrease as the engine warms up.

Observe the following when the engine is running;

- All warning lamps are OFF
- Low oil pressure lamp is OFF

After idling for a few seconds, release the parking brake, depress the clutch, shift the gear shift lever to 1st gear, release the service brake pedal, drive by releasing the clutch and depressing the accelerator pedal simultaneously.

11.3.1 Engine Idling - In Cold Weather

Avoid full throttle operation when the engine is cold and prolonged idling at low ambient temperatures. Long periods of idling may be harmful to your engine. Combustion chamber temperatures can drop so low that the fuel may not burn completely. Incomplete combustion allows carbon and varnish to form on piston rings and

injector nozzles. Also, the unburned fuel can enter the crankcase, diluting the oil and causing rapid wear to the engine.

11.4 Stopping the Engine

Your vehicle is powered by a turbo diesel engine. Before turning the engine OFF, always allow the engine to return to normal idle speed and run for few seconds. This assures proper cooling and lubrication of the turbocharger. This is particularly necessary after any hard driving.

⚠ CAUTION

To reduce the risk of personal injury, before turning OFF the engine and leaving the vehicle, always,

- Keep your right foot on the service brake pedal
- Turn front wheels towards the road curb
- Switch OFF the ignition, turn the key to the steering lock position and remove the key
- Firmly engage the parking brake
- Move the gear shift lever to 1st gear position (reverse gear if parking on an incline)
- Slowly release the service brake pedal
- Lock your vehicle when leaving

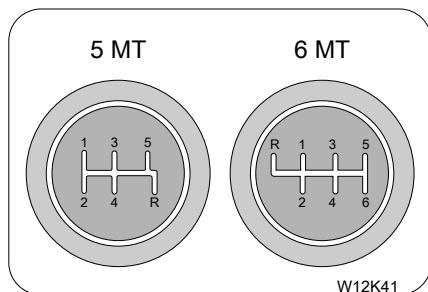


11.5 Manual Transmission

The first few shifts on a new vehicle may be somewhat rough. This is a normal phenomenon, and precision shifts will develop within the initial few hundred kilometers of running.

11.5.1 Gear Shift Lever

The gear shift lever shifts the transmission into various gears. The gearshift pattern is shown on the gear lever knob. The clutch pedal should be depressed fully while shifting, and then released slowly.



This position stops the transmission of power from the engine to the drive axle. With the gear shift lever in neutral and brakes released, the vehicle can move freely by pushing or towing. The engine can be started in this mode. It is always recommended to keep the brake pedal depressed in this position. It is advisable to

shift into neutral when the vehicle is at a standstill for longer durations with the engine idling.

⚠ WARNING

Coasting the vehicle with the gear lever in neutral and engine ON/OFF is not recommended. The steering and braking will be very hard without power assist while coasting with the engine OFF. In an event of panic braking, you will not have the power of engine braking to slow down the vehicle. This may lead to personal injury or accident.

⚠ CAUTION

Do not leave the vehicle with the gear shift lever in the neutral position. Always engage the manual parking brake before leaving the vehicle, to prevent any vehicle movement leading to possible injury to a by-stander or damage to the vehicle.

⚠ WARNING

- *Do not leave children unattended in the vehicle or with access to an unlocked vehicle. Children could move the gear shift lever, which could result in an accident or serious injury*
- *On slippery/wet road surfaces, never downshift in order to obtain braking action. This could result in a wheel slip and reduced vehicle control*

Forward — Use the gears 1 to 6 as per vehicle load, road/traffic conditions or as per requirement.



Reverse — This gear is to enable the vehicle to move in the reverse direction. Move the gear shift lever into this position only after the vehicle has come to a complete stop. Buzzer will be activated for 1.5 seconds, whenever reverse gear is engaged during IGN ON condition.

 CAUTION

To avoid transmission damage, shift into or out of reverse gear only after the vehicle has come to a complete stop and the engine is at idle speed. It is recommended you wait approximately for three seconds in neutral gear before shifting into or out of the reverse gear.

For brief stops, e.g. at traffic lights, keep the gear shift in neutral and hold the vehicle with the brake pedal. For prolonged stops, it is recommended to switch OFF the engine and apply the parking brake.

Uphill and Downhill Driving

To prevent the engine from laboring at a low RPM when driving uphill gradients or with your vehicle heavily loaded, downshift when necessary to maintain engine RPM within the best torque range. Similarly while driving downhill, downshift to utilize the engine braking in an optimum manner.

 WARNING

When stopping the vehicle on an uphill gradient, do not hold it with the clutch/ accelerator; use the brake to avoid

unnecessary clutch wear/heat buildup. When parking on an incline, gear alone may not be sufficient to prevent the vehicle from moving. Always set the parking brake in addition to shifting the gear shift lever into gear. It is also recommended to turn the front wheels towards the curb.

11.5.2 Recommended Gear Shifting Speeds

 CAUTION

Shift gears at suitable engine or road speeds to safeguard the transmission components. Avoid driving in high RPM's (>3000 RPM).

Always depress the clutch fully before moving the gear shift lever from the current position to any desired position. Perform up-shifts or down-shifts one gear at a time, do not jump gears.



Upshifting

Shift Range	Vehicle Road Speed (kmph)	Engine RPM Range
1-2	20-25	1500-2400
2-3	30-35	
3-4	40-45	
4-5	50-55	
5-6	60-65	

Down-shifting

Shift Range	Vehicle Road Speed (kmph)	Engine RPM Range
6-5	60-55	1300-1800
5-4	50-45	
4-3	40-35	
3-2	30-25	
2-1	20-15	

11.6 Driving Your Vehicle

11.6.1 General Driving Precautions

WARNING

Always observe the following precautions to minimize the risk of accidents leading to serious personal injury or damage to your vehicle.

- Before you drive your vehicle, please read this manual carefully.
- Before you start driving, check proper operation of the brakes and steering system.
- If, while driving, you hear any strange noise or feel unusual vibration, or if you have any concerns whatsoever, or if any warning lamps illuminate or buzzers sound, park/stop the vehicle in a safe location as soon as possible. Identify the cause and take any necessary remedial action. Contact your Authorized Mahindra Dealer if necessary.
- Never overload or improperly load your vehicle.
- Always be attentive while driving and follow safe driving practices.
- Always maintain the recommended inflation pressure in tires.
- Always drive at a safe speed appropriate for given driving conditions. You must follow the speed limits.



- While backing up, keep a constant lookout for people, particularly children, or other obstructions or hazardous material that might be present behind the vehicle.
- Avoid loading any items on the roof that will raise the vehicle's center of gravity and make your vehicle more unstable.
- Loaded vehicles, with a higher center of gravity, may handle differently than unloaded vehicles. Extra precautions, such as slower speeds and increased stopping distance, should be taken when driving a heavily loaded vehicle.
- Always slow down in gusty crosswinds. Because of its profile and higher center of gravity, your vehicle is more sensitive to side winds than an ordinary passenger car. Slowing down will allow you to have much better control.
- When driving off-road or on rugged terrain, do not drive at excessive speeds, jump, make sharp turns, strike objects, etc. This may cause loss of control or vehicle rollover causing serious injury. You are also risking expensive damage to your vehicle's suspension and chassis.
- Maintain steering wheel control at all times, especially on rough terrains. Sudden changes in terrain can result in abrupt steering wheel motion. Make sure you grip the steering wheel from the outside. Do not grip the spokes.
- If the vehicle goes from one type of surface to another [e.g. from concrete to gravel/sand/mud/snow] there will be a change in the way the vehicle responds, especially the way it responds to steering, braking and accelerating inputs.
- Be extremely careful when driving on pavements made slippery by loose sand, water, gravel, snow or ice.
- If your vehicle goes off the edge of the pavement, slow down, but avoid severe brake or steering application. Ease the vehicle back onto the pavement only after reducing your speed. Do not turn the steering wheel too sharply while returning to the road surface.
- It may be safer to stay on the apron or shoulder of the road and slow down gradually before returning to the pavement. You may lose control if you do not slow down or if you turn the steering wheel too sharply or abruptly.
- In an unavoidable emergency situation where a sudden sharp turn must be made, turn the steering wheel only as rapidly and as far as required to avoid the emergency. Excessive steering will result in less vehicle control. Additionally, smooth variations of the accelerator and/or brake pedal pressure should be utilized if changes in vehicle speed are called for. Avoid abrupt steering, acceleration or braking which could result in an increased risk of loss of vehicle control, vehicle rollover and/or personal injury. Use all available road surfaces to return the vehicle to a safe direction of travel.

11.6.2 Off Road Driving Precautions

- When driving off-road or on rugged terrains, never overspeed or make sharp turns. This may cause loss of control or vehicle rollover causing serious injury.



- Maintain steering wheel control at all times. Sudden changes in terrain can result in abrupt steering wheel motion.
- Do not drive horizontally or diagonally across steep slopes, your vehicle can tip over sideways. Driving straight up or straight down is preferred.
- Drive cautiously to avoid vehicle damage from concealed objects such as rocks and stumps. You should either know the terrain or map-out your route before driving in the area.
- Always perform a maintenance inspection after each day of off-road driving that has taken you through rough terrain, sand, mud or water.

11.6.3 Driving Through Water

Although your vehicle is capable of driving through shallow water, there are a number of precautions that must be considered before entering the water.

CAUTION

Never drive through still water that is higher than the bottom of the axle hubs. Not following this instruction will allow water to enter vehicle components causing internal damage to the components, affecting driveability, safety, emissions and reliability.

When driving through water, drive very slowly and at constant speed, less than 8 kmph. Drive with accelerator pedal in OFF

and control speed using only the brakes. At higher speed waves can be generated by the front of the vehicle. These water waves may enter air intake, causing severe engine damage or cause a vehicle to get stalled.

You must slow down while driving through shallow water. Speeding may cause water to splash onto the windshield, impairing your vision. In extreme conditions you may get a water wedge formation between the road and tyre causing loss of control in the vehicle.

- The ground under the water might not be firm which could result the water being deeper than expected when driving the vehicle through it.
- Do not stop or shut OFF the engine while immersed in water. It helps in preventing water getting inside the exhaust pipes.
- When backing down a ramp, do not allow the exhaust tail pipe to immerse in water.
- Water can wash the grease from wheel bearings, causing rusting and premature failure. It may also enter the differentials, transmission and transfer case, reducing the oil's lubricating qualities. If these are submerged in water, the lubricants should be replaced as required.
- Water entering the transmission will cause deterioration in shift quality, locking up of your transmission accompanied by vibration, and ultimately damaging the transmission.



- Sand, mud/sludge that has accumulated in brake drums and around brake discs may affect braking efficiency. This may also damage brake system components. Wet brakes cannot stop the vehicle as effectively as dry brakes. Drying can be improved by driving the vehicle slowly while applying light pressure on the brake pedal.
- When driving through water, traction or brake capability may be limited. Always perform a maintenance inspection after each day of off-road driving that has taken you through water.

11.6.4 Flowing Water

If the water is swift flowing and rising (as in storm run-off) avoid crossing until the water level recedes and/or the flow rate is reduced.

The flowing water can erode the streambed causing your vehicle to sink into deeper water.

Determine the exit point(s) that are downstream of your entry point to compensate for drifting.

11.6.5 After Driving Off-road or through Water

Off-road operation puts more stress on your vehicle than does most on-road driving. Always perform a maintenance inspection after each day of off-road driving that has taken you through rough terrain, sand, mud, or water.

- After going off-road, it is always a good idea to check for damage. Completely inspect the underbody of the vehicle for any damages.
- Check for accumulations of plants or bushes. or polyethylene / plastic These could be a fire hazard. They might also hide damage to fuel lines, brake tubes/hoses, etc.
- Inspect all the tubes/hoses and check for any fluid leakages.
- Get heat exchangers (radiator and condenser) cleaned.
- Check threaded fasteners for looseness, particularly on the chassis, drive train components, steering, suspension and brakes. Retighten them, if required, and torque to the values specified in the 'Repair Manual'.
- We also recommend that the vehicle be checked at the Authorised Dealer for any water entry into the transmission/ axle or the engine

WARNING

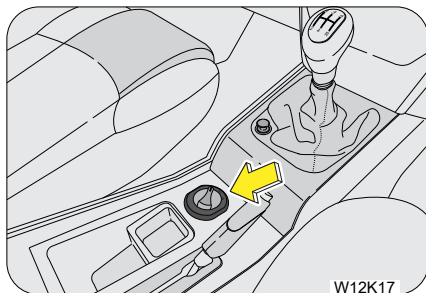
Abrasive material in any part of the brakes may cause excessive wear or unpredictable braking. You might not have full braking power when needed leading to accidents. If you have been operating the vehicle in off-road conditions, get the brakes checked and cleaned as necessary.

- If any unusual vibration is experienced, check the wheels for impacted material. Impacted material can cause a wheel imbalance. Get it inspected/corrected as soon as possible.



- After driving through deep water, inspect your vehicle fluids and lubricants (engine oil, transmission/transfer case/axle oils) to ensure the fluids have not been contaminated.

11.7 Four Wheel Drive (4WD) System (if equipped)



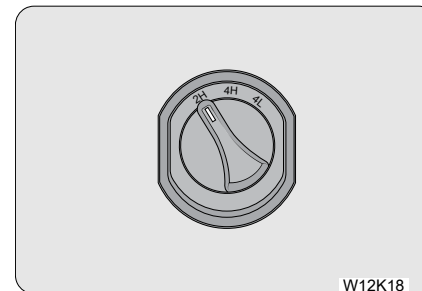
The 4WD system can be used for off-terrain driving or steep inclines like ghat sections and hill terrain regions. The 4WD selector switch is located on the floor console next to the gear lever. It allows the operator to choose between three different modes depending on the torque requirement.

- 2H
- 4H
- 4L

! NOTICE

The operator can switch to 4H mode from 2H at any speed. To engage or disengage 4L from any mode, the vehicle speed must be zero, and the transmission in neutral.

11.7.1 Operating Instructions/Precautions



Use the 4WD selector switch on the floor console to select the following transfer modes.

2H: Only the rear wheels are driven at 1:1 speed ratio. Use this mode for normal driving on dry hard-surfaced roads. This position gives greater economy, the quietest ride, least tire wear and better vehicle control.

4H: All four wheels are driven at 1:1 speed ratio. The four wheel drive telltale lamp illuminates when 4H mode is selected. This mode



provides additional traction and maximum pulling power for loose, slippery road surfaces such as ice, snow, gravel, sand and dry pavement. Front and rear drive shafts are locked together in this mode which forces the front and rear wheels to rotate at the same speed.

4L: All four wheels are driven at 2.48:1 speed ratio. Use this mode for maximum pulling power and traction. Use 4L position for climbing or descending steep hills, off-road driving, hard pulling in sand, mud or deep snow. Front and rear drive shafts are locked together in this mode which forces the front and rear wheels to rotate at the same speed. Pro-longed driving in the 4L position on dry hard surfaced roads may cause increased tire wear and damage to driveline components. Take care not to over rev the engine when driving in this mode. When operating your vehicle in 4L, the engine speed (RPM) is considerably higher than that of the 4H position at a given road speed.

Shifting Between 2H and 4H



Your vehicle is equipped to shift from 2H to 4H mode at any vehicle speed. To shift from 2H to 4H turn the 4WD selector switch to the 4H position. Once the shifting is complete, the 4WD HIGH lamp in the instrument cluster illuminates. If the lamp does not come on, drive straight ahead accelerating or decelerating. If the lamp still does not come ON, contact your Authorized Mahindra Dealer. There may be a malfunction in the four wheel drive system.

CAUTION

Never operate the selector switch knob if the wheels are slipping. Stop the slipping or spinning before operating.

To shift from 4H to 2H, turn the selector switch to the 2H position. This can be done at any speed and the 4WD HIGH lamp in the instrument cluster goes off. If the lamp continues to illuminate, drive straight ahead accelerating or decelerating, or drive forward and backward in a short distance. If the lamp continues to illuminate, contact an Authorized Mahindra Dealer. There may be a malfunction in your four wheel drive system.

**To Shift from 4H to 4L**

1. Bring the vehicle to a complete stop
2. Brake pedal depressed
3. Shift the gear lever into neutral
4. Turn the four wheel drive selector switch to the 4L position. The 4WD LOW lamp in the cluster should illuminate and the 4WD HIGH lamp goes OFF. If the 4WD LOW lamp does not illuminate within 10 sec repeat the above steps again

! NOTICE

Note that both the lamps will illuminate during shifting.

To Shift from 4L to 4H

1. Bring the vehicle to a complete stop
2. Brake pedal depressed
3. Shift the gear lever into neutral
4. Turn the four wheel drive selector switch to the 4H position. The 4WD LOW lamp in the cluster goes OFF and the 4WD HIGH lamp should illuminate. If the 4WD LOW lamp doesn't go out within 10 sec, drive forward or reverse for a short distance, stop the vehicle completely, shift the gear lever into neutral and operate the selector switch knob again. If the problem persists contact an Authorized Mahindra Dealer as soon as possible. There may be a malfunction in the four wheel drive system

! NOTICE

Note that both the lamps will illuminate during shifting.

11.7.2 2WD/4WD Lamps - Instrument Cluster

4WD LOW Lamp



This lamp alerts the driver that the vehicle is in the 4L [four wheel drive low mode]. The 4WD LOW lamp illuminates in the cluster when the transfer case has shifted to the 4L mode. If the lamp fails to illuminate when the ignition is switched ON, or the lamp continuously remains ON even if the switch is not in the 4L position, then have the system checked by an Authorized Mahindra Dealer.

4WD HIGH Mode Lamp



This lamp alerts the driver that the vehicle is in the 4H [four wheel drive high mode]. The 4WD HIGH lamp illuminates in the cluster when the transfer case has shifted to the 4WD HIGH mode. If the lamp fails to illuminate when the ignition is switched ON or the lamp continuously remains ON even if the switch is not in the 4H position, then have the system checked by an Authorized Mahindra Dealer.

In case of any malfunction in the transfer case, both 4WD HIGH and 4WD LOW mode lamps illuminate at the same time. The vehicle should be taken to an Authorized Mahindra Dealer immediately.

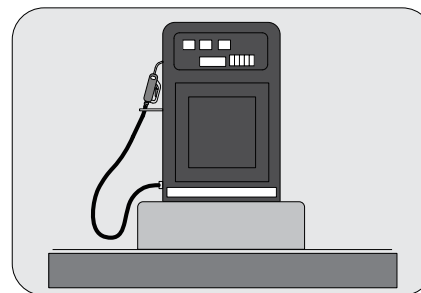
Situations when both lamps will illuminate at the same time, but it is not a concern;

- Ignition 'ON' initial blink

- When shifting from 4H to 4L
- When shifting from 4L to 4H

11.8 Fuel

11.8.1 Diesel Fuel Requirement



Use commercially available vehicular Ultra-low Sulfur Highway Diesel that meets the BIS standard (IS 1460; 2010 BS IV / BS III specification or equivalent). Information on diesel quality can normally be found in the fuel pump. Please contact any filling station personnel in case labels in the pump cannot be found.



⚠ CAUTION

Do not fill the fuel tank or mix the fuel with gasoline, alcohol based fuels, kerosene, etc. This will damage the engine, fuel and exhaust system components.

⚠ NOTICE

If you have accidentally filled the fuel tank with an incorrect or non-approved fuel, do not start the vehicle. Contact an Authorized Mahindra Dealer to have the fuel system drained completely.

11.8.2 Fuelling during Winter

During freezing weather if the fuel is not winterized or is insufficiently winterized, waxing/gelling may take place in the fuel, leading to interruption in fuel supply to the engine. For smooth functioning and reliable operation of the engine during cold weather conditions, use winterized ULSD which is available at the filling stations during winter months. Check with your fuel retailer for further details.

⚠ CAUTION

Avoid inhaling fuel vapors and any skin or clothing contact. Direct skin contact with diesel or the inhalation of fuel vapor may affect your health.

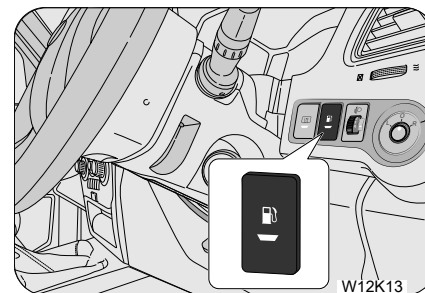
11.8.3 Minimum Fuel Requirement

It is recommended maintaining a minimum of 10 liters of fuel in the fuel tank. Driving the vehicle till the fuel tank is empty is not recommended. Always have sufficient fuel in the tank. Check the fuel level prior to starting your journey.

⚠ WARNING

Never carry fuel in separate containers in the vehicle, it is dangerous and may lead to an inadvertent fuel leak or spillage.

11.8.4 Fuel-Lid Opening and Closing

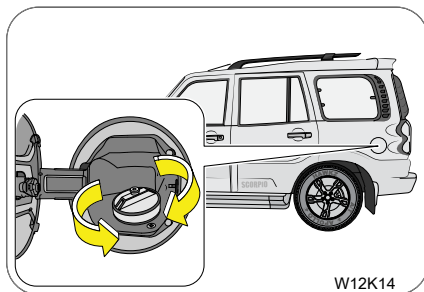


The fuel-lid can be opened by gently pressing the fuel lid open button located in the switch bank on the instrument panel RHS of the steering wheel.

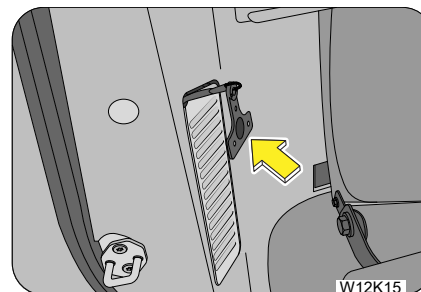
Turn the fuel cap counter-clockwise to open. Refuel and put the cap back in its place and tighten in the clockwise direction till three distinct clicks are heard. Close the fuel lid shut.

! CAUTION

Ensure the fuel cap and lid are securely closed before starting the vehicle.



11.8.5 Mechanical Override for Fuel Lid Opening



In the unlikely event of the remote switch not opening the fuel lid, a mechanical over ride release is provided. It is located in the LH trim near the rear tail lamp inspection cover (behind the third row seats). Pull the flat handle to open the fuel lid.

11.9 Tips for Better Fuel Economy

Give due consideration to the points listed below for better performance of vehicle and enhancement of fuel economy.

- Smooth, moderate operation will yield savings in fuel
- Steady speeds without stopping will usually give the best fuel economy
- Ensure that the parking brake is fully released



- Idling for long periods of time will waste fuel
 - Anticipate stopping; slowing down may eliminate the need to stop
 - Sudden or hard accelerations reduce fuel economy
 - Slow down gradually
 - Drive at moderate speeds
 - Rewinding the engine before turning it off may reduce fuel economy
 - The air conditioner may reduce fuel economy
 - Warming up a vehicle in neutral on cold mornings is not required and may reduce fuel economy
 - While idling put the gear shift lever in the neutral position
 - Resting your foot on the clutch pedal while driving will reduce fuel economy
 - Combine errands and minimize stop-and-go driving
 - Keep tires properly inflated. It is recommended to check your tire pressure in the morning when the tyre is cold
 - Use recommended engine oil. Refer to the Maintenance Section for specifications and capacities
 - Replace the fuel filter and air filter at the recommended intervals
 - Shift gears at the recommended speeds and rpm bands only. Refer to the gear shifting speed table for further details
 - Control the maximum speed between 90 to 100 kmph in 5th gear to achieve the best fuel efficiency
 - Follow the recommended maintenance schedule and perform the owner maintenance checks recommended
 - Heavily loading a vehicle or towing a trailer will reduce fuel economy
 - Carrying unnecessary weight may reduce fuel economy
 - Adding certain accessories to your vehicle may reduce fuel economy
 - Four-wheel-drive operation (if equipped) is less fuel efficient than two-wheel-drive operation
 - Driving on flat terrains offer improved fuel economy as compared to driving on hilly terrains
 - Close windows during high speed driving for better fuel economy
 - It is recommended to refuel in the mornings (cold weather condition)
- ### 11.9.1 How to Calculate Fuel Efficiency (Mileage)
1. Ensure recommended tire pressure is maintained
 2. Refuel your vehicle till the fuel gun at the fuel station is auto-cut-off
 3. Reset trip meter to zero



4. Drive at a moderate speed for a minimum distance of 150 km
5. Refuel at the same fuel station till the auto-cut-off mode
6. Assuming 'a' liters of fuel was filled and 'b' was the trip meter reading. Fuel Efficiency = b/a kmpl
7. We recommend that point no.2 and point no.5 should be done in cold conditions (In mornings)

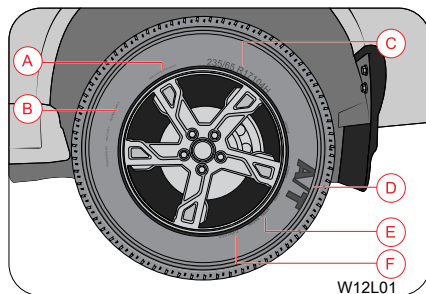


12 WHEELS AND TYRES

12.1 Tyre Information

! NOTICE

The tyres fitted in this vehicle meet the requirements of BIS and they comply with the requirements under the Central Motor Vehicles Rules [CMVR] 1989



A	Max Load Limit
B	Tread Wear /Traction / Temperature
C	Tyre Size
D	All Terrain Tyre

E	Radial tyres or bias-ply tyre - A radial tyre has "RADIAL/ STEEL BELTED RADIAL" on the sidewall. A tyre not marked with "RADIAL" is a bias-ply tyre.
F	"TUBELESS" or "TUBE TYPE" - A tubeless tyre does not have a tube inside the tyre and air is directly filled in the tyre. A tube type tyre has a tube inside the tyre and the tube maintains the air pressure.

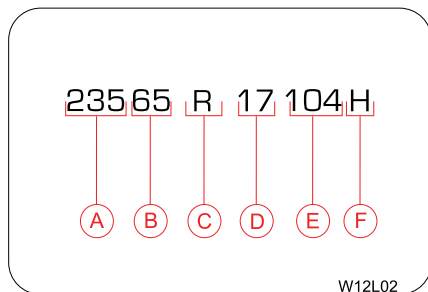
12.2 Tyre Rating

Your vehicle is originally equipped with tyres supplied by a reputable manufacturer. If you ever have any questions regarding your tyres, please refer to literature supplied by the tyre manufacturer, or to the separate tyre warranty provided by the tyre manufacturer. You may also contact Mahindra directly, or the tyre manufacturer.

The tyre rating of your vehicle is;

- 235/65 R17 104H

Tyre rating is explained as below;



Tyre size (example: 235/65 R17 104H)

(A):235 (Three-digit number): This number gives the width in millimeters of the tyre from sidewall edge to sidewall edge. This is called 'Section Width'.

(B):65 (Two-digit number): This number, known as the aspect ratio, gives the tyre's ratio of height to section width.

(C): R: This is the tyre Construction Code. The 'R' stands for Radial.

(D):17 (Two-digit number): This number is the wheel or rim diameter in inches.

(E):104 (Two or three digit number): This number is the tyre's load index. It is a measurement of how much weight each tyre can support.

(F): H: Tyre speed rating or speed symbol. Never drive the vehicle faster than the tyre speed rating. The speed rating denotes the

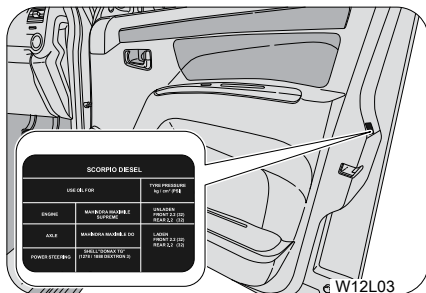
speed at which a tyre is designed to be driven for extended periods of time under a standard condition of load and inflation pressure.

12.2.1 Speed Rating

SPEED SYMBOL	MAX SPEED CAPABILITY	SPEED SYMBOL	MAX SPEED CAPABILITY
	KM/HR		KM/HR
L	120	T	190
M	130	U	200
N	140	H	210
P	150	V	240
Q	160	W	270
R	170	Y	300
S	180	Z	240+

12.3 Tyre Label (Vehicle Placard)

The tyre Label (Vehicle Placard) is located on the driver door inner edge. This placard gives you important information about the tyre size designed for your vehicle, and the tyre inflation pressures for the front and rear tyres.



12.4 Tire Pressure

Proper tire inflation pressure is essential to the safe and satisfactory operation of your vehicle. Three primary areas are affected by improper tire pressure;

- Safety
- Economy
- Ride Comfort and Vehicle Stability

Proper tire inflation contributes to a comfortable and safe ride. Overinflating produces a jarring and uncomfortable ride. Both underinflation and overinflation affect the stability of the vehicle and can produce a feeling of sluggish response or over responsiveness in the steering. Unequal tire pressures can cause erratic and unpredictable steering response or may cause the vehicle to drift left or right.

Improper inflation pressures can cause uneven wear patterns to develop across the tire tread. These abnormal wear patterns will reduce tread life resulting in a need for earlier tire replacement. Under inflation also increases tire rolling resistance and results in higher fuel consumption.

! NOTICE

The proper cold tire inflation pressure is listed in the Tire Label [Vehicle Placard], located on the front passenger side inner B-pillar.

Tyre Size	Tyre Pressure Bar (psi) (Upto 4 persons + luggage)		Tyre Pressure Bar (psi) (Fully Loaded)	
	Front	Rear	Front	Rear
235/65 R17	2.2 (32)	2.2 (32)	2.2 (32)	2.2 (32)
215/75 R15	2.4 (35)	2.4 (35)	2.4 (35)	2.7 (39)

! WARNING

Never overload your vehicle. Overloading can cause tyre failure, affect vehicle handling, and increase your stopping distance, resulting in an accident and/or personal injury.

Improperly inflated tyres can adversely affect vehicle handling or can fail unexpectedly, resulting in an accident and/or personal injury.



12.4.1 Inspection and Adjustment Procedure

The tire pressure should be checked and adjusted, as well as inspected for signs of tire wear or visible damage, at least once a month. Use a good quality pressure gauge to check tire pressure. Do not make a visual judgement when determining proper inflation. Radial tires may look properly inflated even when they are underinflated. At the same time, each tire should be inspected for signs of tire wear or visible damage.

Inflation pressures specified on the placard are always cold tire inflation pressures. Cold tire inflation pressure is defined as the tire pressure after the vehicle has not been driven for at least three hours, or driven less than 1 km after a three-hour period. Check tire pressures more often if subject to a wide range of outdoor temperatures, as tire pressures vary with temperature changes. Tire pressures change by approximately 1 psi (7 kPa) per 7°C of air temperature change. Keep this in mind when checking tire pressure inside a garage, especially in the winter.

When it was new, the spare tire in your vehicle was fully inflated. However, a spare tire can lose pressure over time. In order to avoid being stranded, check the spare tire air pressure frequently.

12.4.2 Inflating Your Tires

Safe operation of your vehicle requires that your tires are properly inflated. Remember that a tire can lose up to half of its air pressure without appearing flat.

At least once a month or before long trips, inspect each tire and check the tire pressure with a tire gauge (including spare tire). Inflate all tires to the recommended inflation pressure.

WARNING

Under-inflation is the most common cause of tire failures and may result in severe tire cracking, tread separation or "blowout", with unexpected loss of vehicle control and increased risk of injury. Under-inflation increases sidewall flexing and rolling resistance, resulting in heat buildup and internal damage to the tire. It also may result in unnecessary tire stress, irregular wear, loss of vehicle control and accidents.

Always inflate your tires to the recommended pressure even if it is less than the maximum inflation pressure information found on the tire. The recommended tire inflation pressure is found on the Tire Label which is located on the front passenger side inner B-pillar. Failure to follow the tire pressure recommendations can cause uneven tread wear patterns and adversely affect the way your vehicle handles.

NOTICE

If you overfill the tire, release air by pushing the metal stem in the center of the valve. Then recheck the pressure.

**⚠ WARNING**

After inspecting or adjusting the tire pressure, always reinstall the valve stem cap (if equipped). This will prevent moisture and dirt from entering the valve stem, which could damage the stem, resulting in an unexpected loss of tire pressure, an accident and/or personal injury.

12.4.3 Radial Ply Tires**⚠ WARNING**

Combining radial ply tires with other types of tires on your vehicle will cause your vehicle to handle poorly, resulting in an accident and/or personal injury. Always use radial tires in sets of four. Never combine them with other types of tires.

Cuts and punctures in radial tires are repairable only in the tread area because of sidewall flexing. Consult your authorized dealer for radial tire repairs.

12.4.4 Tread Wear Indicators (TWI)

Tread wear indicators are molded into the bottom of the tread grooves. They will appear as bands when the tread depth becomes 1/16 inch [2 mm]. When the indicators appear in two or more adjacent grooves, the tire should be replaced.

⚠ CAUTION

Avoid abrupt maneuvering and braking. This can cause tire deterioration and lead to loss of steering or braking control.

12.4.5 Life of Tire

The service life of a tire is dependent upon various factors including but not limited to;

- Driving style
- Tire pressure
- Distance driven

⚠ WARNING

Tires and the spare tire should be replaced after six years, regardless of the remaining tread. Failure to follow this warning can result in sudden and unexpected tire failure, leading to an accident and/or personal injury.

⚠ NOTICE

Keep dismantled tires in a cool, dry place with as little exposure to light as possible. Protect tires from contact with oil, grease and fuels.

⚠ WARNING

Do not use a tire, wheel size or speed rating other than that specified for your vehicle on the tire placard. Combinations of unapproved tires and wheels may change suspension geometric and performance characteristics, resulting in changes to steering, handling and braking of your vehicle. This can cause unpredictable handling, stress to steering and suspension components. You could lose control of the vehicle or the tire can unexpectedly fail, resulting in an accident and/or personal injury.

⚠ NOTICE

Replacing original tires with tires of a different size may result in false speedometer and odometer readings.

12.4.6 Snow Chains

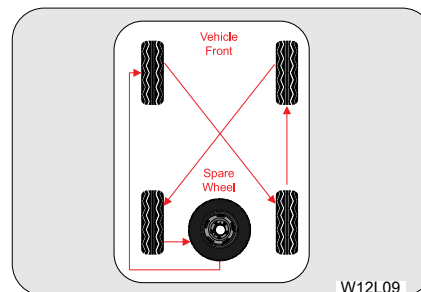
Snow chains cannot be used on these tires.

⚠ WARNING

In case of harsh winter driving conditions, it is recommended using winter tires with the same specifications for better stability, safety and performance.

12.5 Tyre Rotation Recommendations

Type 1 - Applicable for all 5 Steel / 5 Alloy wheels



Tyres on the front and rear axles of vehicles operate at different loads and perform different steering, handling, and braking functions. For these reasons, they wear at unequal rates and develop irregular wear patterns.

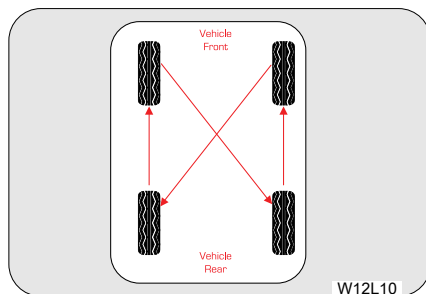
Rotation will increase tread life, help to maintain mud, snow, and wet traction levels, and contribute to a smooth, quiet ride. Follow the recommended tyre rotation frequency for your type of driving.

Type 2 – Applicable for 4 Alloy wheels and Spare wheel with Steel rim

It is recommended rotating the tyres as per the “Maintenance Schedule”.



The suggested rotation method is the “forward-cross” shown in the diagram. The benefits of rotation are especially worthwhile with aggressive tread designs such as those on On/Off-road type tyres.



Rotation will increase tread life, help to maintain mud, snow, and wet traction levels, and contribute to a smooth, quiet ride. Follow the recommended tyre rotation frequency for your type of driving. More frequent rotation is permissible if desired. The reasons for any rapid or unusual wear should be corrected prior to rotation being performed.

12.5.1 Changing a Flat tyre

Refer to “If you have a Flat tyre” section in the general chapter for details.

12.5.2 Wheel Tightness

When you change a wheel, remove all rust and dirt at all locations where the wheel contacts the wheel hub. Use a scraper or wire brush to be sure that you remove all rust and dirt. A loose wheel could have damaged or elongated the holes in the rim, or damaged the rim/hub assembly. If any of the wheel studs or nuts are damaged, contact the nearest Authorized Mahindra Dealer.

WARNING

Always tighten the nuts in a crisscross sequence. Never use oil or grease on your wheel studs or nuts.

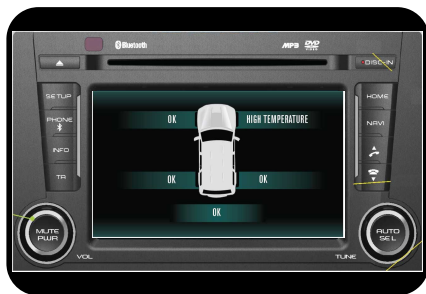
Never over tighten the nuts on the wheel stud. You could damage the stud or the nut.

Torque tighten the wheel nuts to the specified value at the nearest Authorized Mahindra Workshop.

NOTICE

The tyres fitted in this vehicle meet the requirements of BIS and they comply with the requirements under the Central Motor Vehicles Rules (CMVR) 1989.

12.6 Tiretronics (if equipped)



The tiretronics system checks the pressure and temperature of the air inside the pneumatic tyres of the vehicle. During vehicle running condition the system alerts the driver if any of the tyres parameters are not in acceptable limits due to any reason.

The system will continue to alert until the warning condition is resolved to the actual placard values.

Appropriate tyre pressure and tyre temperature is required for;

- Adequate braking
- Road grip
- Vehicle handling
- Vehicle maneuvering
- Reduced tyre wear and tear

- Reduced tyre strain and safety
- Good fuel efficiency

The infotainment unit displays all alerts related to Tiretronics on the infotainment screen and the instrument cluster indicates the visual warnings for all Tiretronics alerts.





12.6.1 Operation of Tiretronics

Tiretronics uses wireless sensor technology that is mounted on the wheel rim to check the tyre pressure levels. They transmit the data to the receiver inside the vehicle which in turn is communicated and displayed on the infotainment screen and instrument cluster.

In the infotainment screen all the tyre locations will display the status as 'OK' if every tyre pressure and temperature are at acceptable limits.

The Tiretronics has been customized only for the manufacturer's genuine tyres and wheels. Tiretronics pressure limits and warning messages have been established and calibrated for the tyre size equipped on your vehicle. Replacement of manufacturer's parts with a different size, type or style of components may damage the sensor and lead to incorrect readings.

Do not use aftermarket tyre sealants or balance beads if your vehicle is equipped with Tiretronics. Failure to comply may lead to sensor damage.

The Tiretronics is not intended to replace normal tyre care and maintenance or to warn of any tyre failure condition. The system should not be used as a replacement for a pressure measuring gauge to adjust the vehicle tyre pressure.

Driving with under-inflated tyres cause the tyres to overheat and may lead to tyre failure. Under-inflated tyres reduce fuel efficiency,

tyre tread life and may affect the vehicle's maneuverability and braking ability.

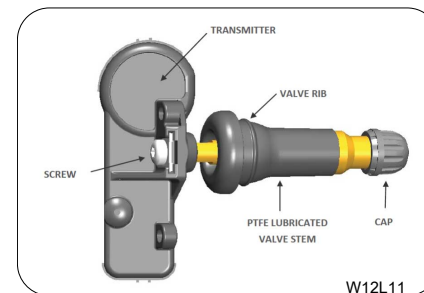
It is the driver's responsibility to maintain correct tyre pressure using an accurate pressure gauge, even if under-inflation has not reached the level to trigger illumination of the Tiretronics warning indicator.

12.6.2 Tiretronics Warning Lamp



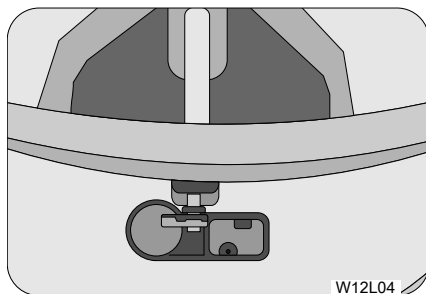
The Tiretronics warning lamp in the instrument cluster illuminates for any alert condition and also for low/high tyre pressures warnings.

12.6.3 Tiretronics Sensor Installation



1. Line the sensor up with the rim hole and attach the TTV insertion tool to the end of the valve ready for pull in

2. Ensure the TTV insertion tool is positioned to the correct notch and that the sensor is pulled through in a direction parallel to the valve whole axis and NOT at an angle to it
3. The picture below shows a correctly fitted sensor. Note the rubber bulb of the valve resting against the rim and the front face of the enclosure is NOT touching the rim. Apply tyre soap solution to the rubber portion of the valve stem and the top of the enclosure



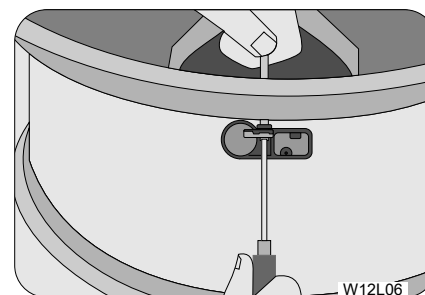
4. Place the inner tyre bead over the rim
5. Place the outer tyre bead over the rim
6. Inflate all tyres to the prescribed pressure, check the valve area for leakage and re-balance the wheels prior to installing back on the vehicle

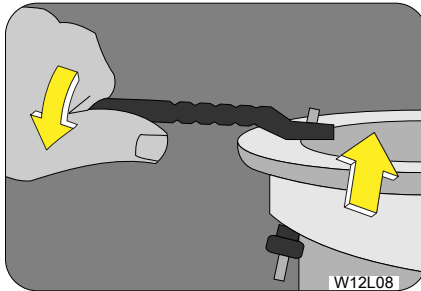
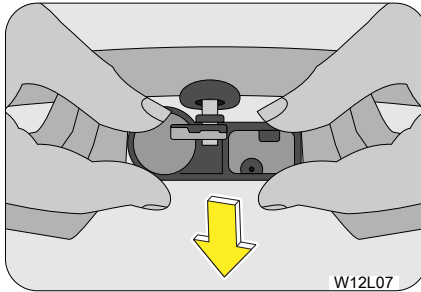
! NOTICE

Starting to mount the tyre from the valve location is a wrong fitment. The fixing tool/stem may hit the sensor and damage it. Start from the opposite direction.

12.6.4 Tiretronics Sensor Removal

1. Remove the tyre from the rim
2. To remove the sensor, firstly remove the screw using a T10 TORX screwdriver
3. Carefully and firmly pull the enclosure straight back off the valve





4. Cut the rubber bulb and attach the TTV tool to the valve. Remove the valve from the rim by pulling through the rim, or simply pull through without cutting the bulb
5. Lift the outer tyre bead over the rim using a tyre tool

⚠ NOTICE

The valve must be positioned just left of the start position to avoid sensor damage. Do not touch the sensor with the tyre tool.

6. Lift the inner tyre bead over the rim using the tyre tool
7. Remove existing valve stem

⚠ NOTICE

Starting to mount the tyre from the valve location is a wrong fitment. Fixing tool/stem may hit the sensor and damage it. Start from the opposite direction.

12.6.5 Functionalities of Tiretronics System

- Low Pressure Alert
- High Pressure Alert
- High Temperature Alert
- Pressure Leakage Alert
- Spare Tyre Swap
- Sensor Signal Missing [Communication error]
- Tiretronics Sensor Faulty.



Low Pressure Alert

Low pressure monitoring is to indicate low tyre pressure. Please note the following points.

- Low pressure alert will be set only when the tyre pressure value goes to certain values
- Low pressure alert in the main alert screen will pop up once for driver notification when the alert is set and the vehicle is in running condition. Otherwise the alert will remain in the information screen and alert register screen
- If low pressure is observed, respective tyre should be rectified with cause of low pressure and then fill air
- Once low pressure alert is set with tyre pressure lower than certain values then the alert shall not be cleared until the pressure is filled to the placard value

High Pressure Alert

High pressure monitoring is to indicate high pressure alert. Please note the following points.

- High pressure alert will be set only when the tyre pressure value goes to certain values
- High pressure alert in the main alert screen will pop up once for driver notification when the alert is set and the vehicle is in running condition. Otherwise the alert will remain in the tiretronics screen
- If high pressure value is observed, air has to be released from the respective tyre until the pressure reduces to the placard value
- The vehicle should be driven above 40 kmph for the new pressure value to be updated and the alert to be cleared
- Once the high pressure alert is triggered the alert shall not get cleared until the respective tyre pressure is reaches to the certain value

Pressure Leakage Alert

Pressure leakage monitoring is to indicate any pressure leakage in any of the vehicle tyres. Please note the following points.

- The pressure leakage alert will be set only when the tyre pressure is leaking at a rate



- In the pressure leakage condition if the tyre pressure goes too low beyond the certain value then the low pressure alert will also be set
- The pressure leakage alert in the main alert screen will pop up once when the alert is set for driver notification and will be shown in tiretronics screen when the vehicle is in running condition/ignition ON condition
- Once pressure leakage is observed the respective tyre should be observed for air leakages and the puncture condition has to be rectified. Proper pla-card value should be filled after puncture rectification
- If the vehicle is running in an extremely rocky and acute bumpy condition then fluctuating pressure leakage alert may get set which will get rectified when the vehicle runs back on a normal road. This happens due to sudden change in pressure levels due to rocky conditions

Auto Spare Tyre Swap

Spare tyre swap feature monitors the spare tyre if it has been swapped by the user for any faulty running tyre.

- If any one of the running tyres goes faulty, spare tyre is swapped with the running tyre and the vehicle is driven, then;
 - the system automatically recognizes the swap
 - interchanges the running tyre and spare tyre data

Always rectify the faulty tyre either in the spare tyre position or the running tyre position.

- If the rectified running tyre is replaced back in to running location and the spare tyre back in the spare position, then it is mandatory that Tiretronics manual learning is performed post the rectification

Sensor Signal Missing Alert

When the vehicle is running in speeds between 40 kmph and 120 kmph then the Tiretronics system should always keep receiving the signals from all of the running tyres.

- On account of any issue in signal reception or Tiretronics sensor damage or tyres changed with out performing manual learning then the signal will not be received
- Under such condition if the vehicle was driven for more than certain value without signal being received at least once, then 'Communication error' will be set for respective tyre position on the infotainment screen. The Tiretronics cluster telltale is also illuminated to indicate the same.
- When the Tiretronics communication error is set then perform manual learning once. If manual learning is not done successfully then the corresponding position tyres sensor needs to be checked by carefully opening the tyre
- If the sensor is found to be damaged then it should be replaced with a new one and manual learning should be done



Sensor Faulty/ Low Battery Alert

The Tiretronics sensor in the vehicle tyres has an individual battery internal to each sensor fixed. If the battery level is too low or the sensor by itself is malfunctioning then the Tiretronics system shall give this alert.

- If the Tiretronics sensor low battery/faulty is set then the corresponding position tyres sensor needs to be removed by carefully opening the tyre and replacing it with a new sensor
- Post replacing the new sensor, manual learning should be done

12.6.6 Tiretronics Learning

After tyre rotation or Tiretronics sensor replacement, the receiver must be learnt, else the Tiretronics warning lamp indicates a malfunction.

Mandate Points

Manual learning is the process by which the identities of 5 sensors installed inside the tyres are learnt and programmed in to the memory of the receiver module.

1. Manual learning should be compulsorily performed on any of the following conditions or operations done
 - Any of the old Tiretronics sensors are damaged or sensors are replaced
 - Any of the tyres are replaced

- If any of the tyres or set of tyres are shuffled or swapped in position
 - If tyre rotation operation is performed
 - If it is observed that the alert indications in the tiretronics screen are not co-relating with respect to their actual position in the vehicle
2. Once manual learning is initiated, the sensors inside the tyres need to be triggered by leaking the air from each tyre one at a time and should be completed within certain value post to each event for learning all 5 tyres
 3. No two vehicles should be done with manual learning process at a time in same location within a radius of 20 meters
 4. It is mandatory that manual learning of tyres should follow the sequence of 'front left tyre position, front right tyre, rear right tyre, rear left tyre and spare tyre'
 5. It is required to ensure the tyres have pressure > 32psi and < 36psi before initiating the manual learning process
 6. Post manual learning, all tyres should be filled to the placard pressure value

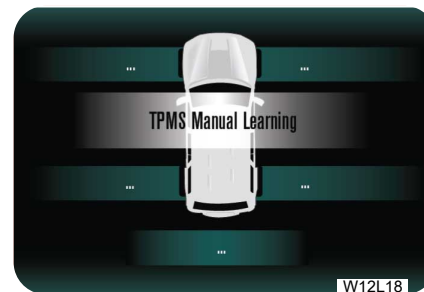
WARNING

It is mandatory that manual learning of tyres should follow the sequence of 'front left tyre position, front right tyre, rear right tyre, rear left tyre and spare tyre'.

Initiating the Manual Learning Process



1. Press the mode button
2. Turn the ignition key on
3. Wait for the cluster's tachometer and speedometer to rotate to highest position and then release the mode button. Then observe the cluster for the Tiretronics telltale to blink, vehicle siren should give 3 chirps and infotainment screen shows 'Tiretronics MANUAL LEARNING'



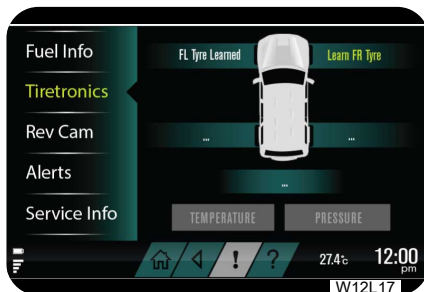
If failed to enter in to the manual learning mode;

- Try initiating the manual learning once again
- Check if the reverse gear is engaged, if engaged disengage it
- Check if the cluster mode button is working fine

If entering in to manual learning still persists, contact an Authorized Mahindra Dealer for further assistance.

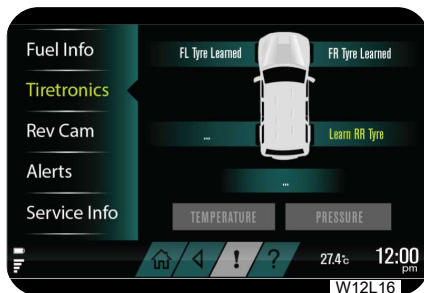
Starting from Front Left Tyre: Start leaking the air from the front left for 30 to 40 sec and stop for 5 sec. Repeat until the tyre gets learnt

If the front left tyre is learned, 1 siren chirp sound is heard and the FL tyre shows learned in the infotainment system



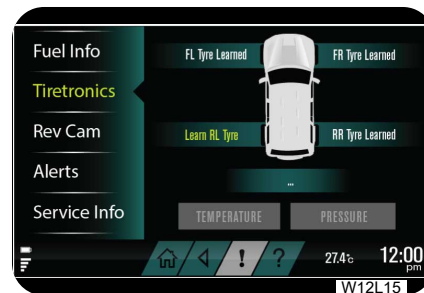
Learning the Front Right Tyre: Start leaking the air from the front right for 30 to 40 sec and stop for 5 sec. Repeat until the tyre gets learnt.

If the front right tyre is learned, 1 siren chirp sound is heard and the FR tyre shows learned in the infotainment system.



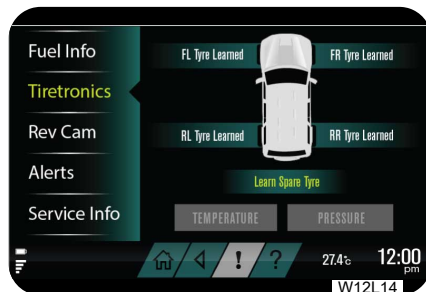
Learning the Rear Right Tyre: Start leaking the air from the rear right for 30 to 40 sec and stop for 5 sec. Repeat until the tyre gets learnt.

If the rear right tyre is learned, 1 siren chirp sound is heard and the RR tyre shows learned in the infotainment system.



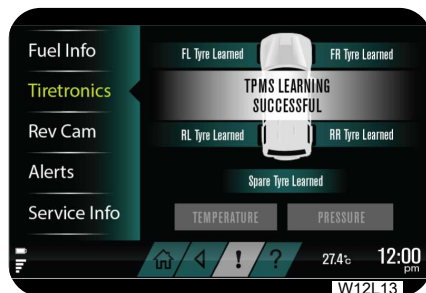
Learning the Rear Left Tyre: Start leaking the air from the rear left tyre for 30 to 40 sec and stop for 5 sec. Repeat until the tyre gets learnt.

If the rear left tyre is learned, 1 siren chirp sound is heard and the RL tyre shows learned in the infotainment system.

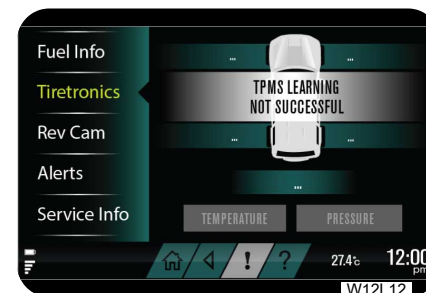


Completing the Learning with Spare Tyre: Start leaking the air from the spare tyre for 30 to 40 sec and stop for 5 sec. Repeat until the tyre gets learnt.

If the spare tyre is also learned, then 1 siren chirp is heard and ALL tyres show learned at respective tyre positions and 'Tiretronics LEARNING SUCCESSFUL' in the center of the screen.



If learning is not successful at any point of time; or at any point of time during the learning process if the learning takes more than 90 secs of time for each tyre position then the system shall exit the learning mode and show the learning not successful screen.



Limitations

- The Tiretronics monitors only tyre pressure and temperature. It does not monitor conditions such as tyre wear
- The Tiretronics will not be able to detect an instant tyre burst and inform the driver in advance
- There may be the possibility of getting all the tyre location indicators on the Tiretronics display blinking along with the Tiretronics telltale, on passing environment area prone to heavy power lines and RF signal. It will come back to normal condition whenever interference gets cleared



NOTICE

Fault at spare position will be displayed after swapping or if the spare itself has a fault. If 'spare tyre rectified' is acknowledged without rectifying the fault, the Tiretronics cannot detect it. It is the user's responsibility to check the spare tyre before starting the vehicle.

12.6.7 Tiretronics – Points to Remember

- It is recommended to fill the pressure to 32 psi at a digital gauge station only
- Every 15 days, inflate all the tyres up to 32 psi and inflation should be done at cold condition/ambient temperature
- Pressure deviation between the Tiretronics display and gauge will depend upon the following factors:
 - Atmospheric pressure
 - Error in pressure filling gauge (not calibrated)
 - Air leakage during inflation/deflation
- Tiretronics measures the absolute pressure of the tyre, not relative pressure (gauge pressure)
- Pressure deviation is defined for 0.5 psi (min) and 3 psi (max)
- If the vehicle battery/fuse is disconnected and reconnected, it will update the pressure after the vehicle is driven or sensor is activated
- It is mandatory that manual learning should be performed if the vehicle tyres are rotated or any of the tyres sensors are replaced, else the system will give a false alert with respect to false location
- At a time, only one tyre can be swapped with the spare wheel and then follow the learning procedure
- If more than one tyre needs to be learned, learn all 5 tyres as per manual learning procedure
- Tiretronics is only a warning or indicating device. Pressure and temperature values displayed by the system is for indication prior to alert purposes only. The Tiretronics system should not be used as a measuring device to correlate or calibrate against other systems
- During winter or in cold conditions, there may be chances of getting a pressure alert with the corresponding tyre location indicator in the display, if the tyre pressure is near the thresholds level. i.e. between 28 psi to 24 psi. However, this alert will get cleared after driving a few kilometers depending upon the climatic condition

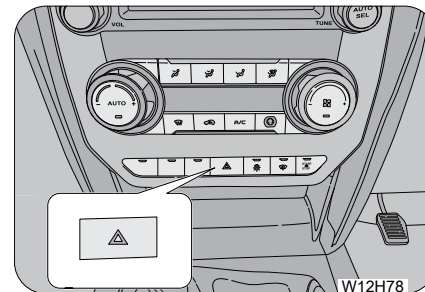
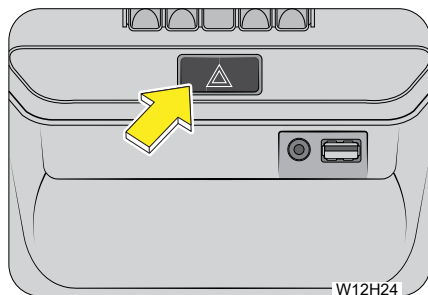


13 EMERGENCIES

13.1 Hazard Warning Lamp

The hazard warning lamp switch is located below the AC controls on the instrument panel.

To turn the hazard warning lamp ON, push the switch in. All the turn signal lamps flash. The instrument cluster turn indicator lamps also flash indicating the same. To turn OFF, push the switch again.



Use the hazard warning lamp when your vehicle is stationary or to warn other road users to be cautious while passing your vehicle.

NOTICE

The turn lamps do not work when the hazard warning lamps are operational.

Hazard lamps are also switched ON during the following conditions;

- *Crash — Hazard would be turned on for 30 mins*
- *Panic Braking — When the vehicle is running above 100 kmph and panic/sudden brakes are applied, hazard will turn on for 5 sec*
- *Vehicle break down warning bonnet open — The vehicle break down warning would be enabled only when bonnet switch changes from close to open condition at vehicle unlocked condition*



Pressing the hazard switch twice deactivates this feature.

13.2 Vehicle Does Not Start - Checks

Before making these checks, make sure you have followed the correct starting procedure and that you have sufficient fuel.

If the engine is not cranking or is cranking too slowly/ intermittently

1. Check that the battery terminals are tight and clean.
2. If the battery terminals are firmly fastened, switch ON the interior lamps.
3. If the lamps do not illuminate, glow dim or go OFF when the starter is cranked, then it indicates a weak or discharged battery. Try jump starting. Follow 'Jump starting' instructions given later in this chapter.
4. Check the fuses in the Engine Compartment Fuse Box and Central Fuse Box.

If the engine cranks normally, but does not start

1. If the lamp illumination is normal, engine is cranking normally, but the engine does not start even after repeated cranking, it needs adjustment or repair. Contact an Authorized Mahindra Dealer.
2. During winter, use non-winter diesel or due to extreme cold conditions, the vehicle may not start. Contact an Authorized Mahindra Dealer for further assistance.

CAUTION

To prevent damage to the starter, do not crank the engine for more than 15 seconds at a time. Wait 10 to 15 seconds before trying again.

If the engine stalls while driving

Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place. Turn ON your hazard warning flashers and check for any malfunction lamps in the instrument cluster. Turn the ignition OFF, wait for approximately 90 seconds and try starting the engine again. If the vehicle still does not start contact an Authorized Mahindra Dealer.

WARNING

If the engine stalls while running, the power assist for the brakes and steering will not work. Steering and braking will be much harder than usual.

If the engine speed does not increase

If the engine speed does not increase when the accelerator pedal is depressed, there may be a problem in the Engine Management System, electrical or electronic controls. In case of certain faults, the engine may go to limp home mode, which is indicated by the check engine lamp. Have your vehicle checked by an Authorized Mahindra Dealer as soon as possible.



13.3 Vehicle Overheating

If the needle in the temperature gauge in the instrument cluster is all the way up to the H and/or the high engine coolant temperature warning lamp is ON, your engine has overheated.

If the engine is getting overheated, the Engine Management System reduces engine power substantially and may even shut the engine OFF; it is dangerous to continue driving when the engine has overheated. You need to first cool the engine down before starting to drive again.

Follow the below instructions to cool the engine down

- Progressively reduce the vehicle speed and bring the vehicle to a stop at the side of the road
- Turn ON the hazard warning flashers
- Keep the engine running at idle
- Engage the parking brake
- Switch off the air conditioner
- Wait till the engine coolant temperature drops sufficiently such that the needle in the temperature gauge is around halfway between C and H

Now switch the engine OFF and carefully open the bonnet/hood to visibly inspect the engine cooling system parts. Be cautious while doing an inspection as vehicle parts will still be too hot. Verify that the engine coolant level in the coolant recovery tank is maintained

between the 'Min' and 'Max' mark. Check for possible fluid leakages. Check for damages to heat exchangers and connecting hoses. Also verify that the radiator shrouds, engine fan blades and the engine belt all are in good condition.

If any evidence of failure is observed, contact the nearest Authorized Mahindra Dealer for help. In case, no system leakage/failure is suspected, driving can be continued.

Either due to severe operating conditions or due to any system leakages or failures, the engine can get overheated. However if the engine is getting overheated repeatedly, even in normal operating conditions, get the vehicle checked by an Authorized Mahindra Dealer as soon as possible.

NOTICE

Refer to the 'High Engine Coolant Temperature' section under the 'Features and Control' chapter for details.

WARNING

If the high engine coolant temperature warning is ignored, the engine shuts OFF abruptly to safeguard engine components from overheating and consequent failure. Abrupt engine shut-off can lead to uncontrollable driving condition and accidents.

Stay clear of hot and rotating vehicle parts while visually inspecting the vehicle. The coolant inside the cooling system is under high pressure and temperature. Never open the



pressure cap of the degassing tank when the engine is hot. Not taking precautions may lead to serious injury to your skin/eyes.

NOTICE

For optimum performance of the cooling system you must maintain the required coolant level and use only recommended engine coolant.

13.4 Jump Starting

If your vehicle's battery has run down, you may be able to start the engine by using a standalone booster battery or a vehicle with a good condition battery.

But before going ahead with this procedure ensure that the battery is the cause of vehicle not starting. To confirm this, few simple tests can be conducted as follows;;

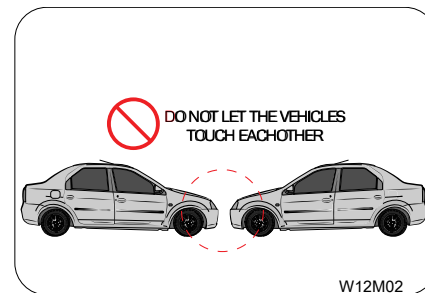
- **Check the headlights** - Are they dim or bright? If they are dim, it's likely your battery is dead. If your headlights are bright, you do not have a dead battery and a jump start may not help
- **Try to start your vehicle** - Does it turn over very slowly, or does it crank quickly? If it cranks quickly, you do not have a dead battery and a jump start may not help. If it cranks slowly, or not at all, you probably have a dead battery

Open the bonnet and locate the battery (near the left side fender). Identify the positive and negative terminals.

- The positive terminal will be marked with a plus sign (+) and will usually have a **RED** cable attached on it.
- The negative terminal will be marked with a minus sign (-) and will usually have a **BLACK** cable attached to it

Check the physical condition of the battery. Inspect batteries for cracks, leaks or any other damage. If you find any of these things, do not jump start the vehicle. Call Mahindra Road Side Assistance or replace the battery. If the weather is very cold, remove the refill caps and check the condition of the electrolyte. If it seems slushy or like ice, do not attempt jump-starting until it thaws.

1. Park the working vehicle near the disabled vehicle. Park the vehicle in such a way that the distance between both vehicle batteries is as small as practical. Turn off the engine, radio, lights, A/C, fans and all other electrical components. Make sure that all of these things are OFF in the disabled vehicle, too

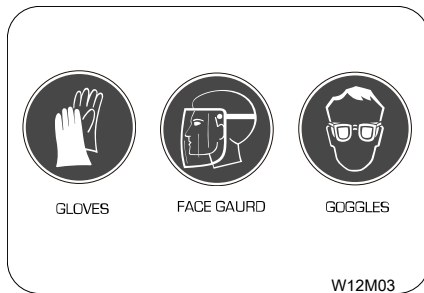




! WARNING

Don't let the vehicles touch each other.

2. Wear safety gear [goggles or face guard and gloves] if you have it.



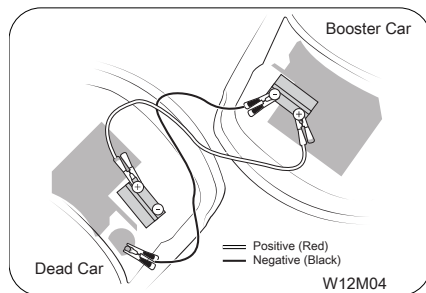
! WARNING

It may be necessary to remove the disabled vehicle's battery cables from the battery terminals and clean both cables and terminals. Use a stiff wire brush to remove all corrosion. Reconnect the cables to the battery terminals and jump the vehicle.

3. Untangle and unwind your jumper cables. Like your batteries, your jumper cables will probably have red and black cables and will have heavy duty clamps to connect to the battery terminals. You must make sure that the red and black ends of your jumper cables never touch each other once they are

connected to the batteries; permitting them to do so can result in serious arcing and/or damage to one or both vehicles

4. Connect the jumper cables in the order described below;
- Connect one red clamp to the positive (+) terminal of the dead battery/disabled vehicle
 - Connect the other red clamp to the positive (+) terminal of the good battery
 - Connect one black clamp to the negative (-) terminal of the good battery
 - Connect the other black clamp to a piece of grounded metal on the dead vehicle, preferably shiny metal (not painted or oily) that is attached to the engine. Usually a nut, bolt or other protruding shiny metal will work. You may see a small spark when you connect to a good ground. As a last resort, you may connect to the negative (-) post of the dead battery, but this risks igniting hydrogen gas coming off the battery



⚠ WARNING

Make sure none of the cables are dangling into the engine compartment, where they could be exposed to moving parts.

5. Start the working vehicle. Let it idle for a few minutes. Rev the engine a little above idle for 30 to 60 seconds. You do this to charge the battery in the dead vehicle. A good clean connection between the battery cables and the battery terminals is essential
6. Try to start the disabled vehicle. If it does not start, shut the engine off and disconnect the last connection temporarily while you slightly twist or wiggle each of the four clamps to help ensure a good electrical connection. Restart the working vehicle again. Allow another 5 minutes for charging before attempting to start the disabled vehicle. If this does not work after a few tries, you may need to have the vehicle towed or the battery replaced

7. Remove the jumper cables once the vehicle starts. Do this in the reverse of the order in which they were attached, and don't let any of the cables or clamps touch each other (or dangle into the engine compartment)
 - Disconnect the black clamp from the grounded metal on the dead vehicle
 - Disconnect the black clamp from the negative (-) terminal of the good battery
 - Disconnect the red clamp from the positive (+) terminal of the good battery
 - Disconnect the red clamp from the positive (+) terminal of the dead battery

Replace any positive (+) red post protective covers if applicable (You have had to remove or open these in the beginning) These covers help prevent accidental short circuiting of the battery

8. Keep the recently-disabled vehicle's engine running. Run the vehicle above idle (slightly revved up with your foot on the accelerator). This should give the battery enough charge to start the vehicle again. If it does not, you probably have a dead battery or a dying alternator

⚠ WARNING

Improper jump starting procedures can result in battery explosion and acid burn hazard.



Loosely connected battery cables could damage the electronic control units.

To disconnect battery terminals wait for at least 2 minutes to allow discharge of high voltage or it could lead to personal injury.

While disconnecting, always disconnect the -VE terminal first and while connecting, always connect the -VE terminal last.

Do not connect battery terminals with opposite polarity, it will lead to alternator failure

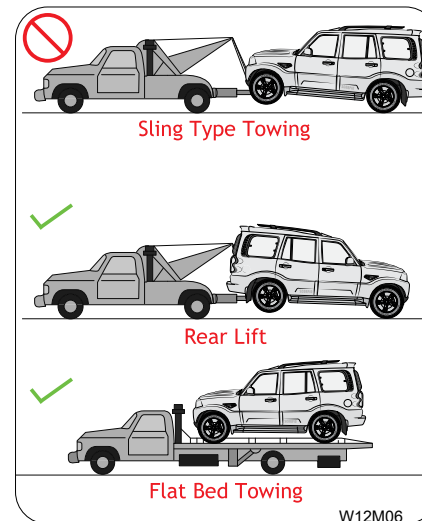
WARNING

Towing a vehicle to start could be dangerous. The vehicle being towed could surge forward when the engine starts, causing the tow vehicles to collide, injuring the occupants.

Modern vehicles with electronic management systems should not be jump started without 'protected' jump starter leads. It is necessary to refer to the owner's handbook for jump starting procedures for such vehicles.

13.5 Towing

13.5.1 Towing Equipment

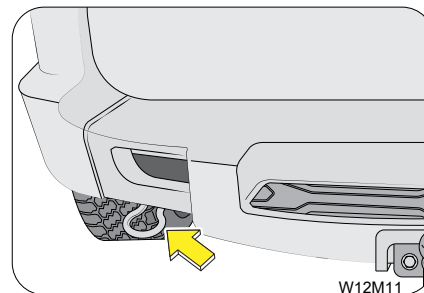
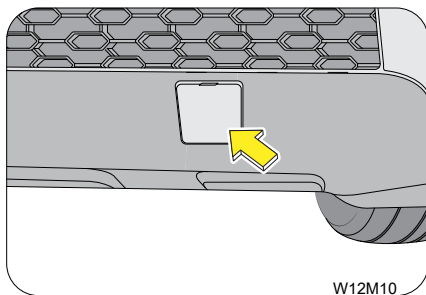


Towing equipment are of two types.

- Flat-bed equipment - Your vehicle is loaded on the back of a truck. This is the safest and best way of towing.

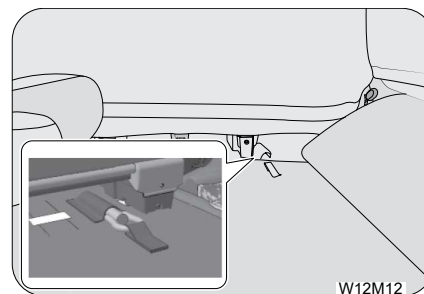
- Rear-lift equipment - The tow truck uses two pivoting arms that go under the tires (front or rear) and lift them off the ground. The other two tires remain on the ground.
- Sling-type equipment - The tow truck uses metal cables with hooks on both ends. These hooks go around parts of the frame or suspension and lift the end of the vehicle off the ground. This is not a good method of towing as it may damage the vehicle's suspension and body. Avoid a tow with sling type equipment

13.5.2 Towing your Vehicle During Emergency



If your vehicle needs to be towed, call a professional towing service. If a towing service is unavailable in an emergency, your vehicle may be temporarily towed by a cable or chain secured to the emergency towing hook screwed into the front towing eyelet.

Your vehicle comes with a rear welded tow hook. The front tow eye is in the carpet pouch located under the second row seat.





Remove/Prise out the tow hook cover in the front LHS bumper using a screwdriver. Screw in the tow hook and tighten. Fasten a cable or chain specifically intended for use in towing vehicles to the towing hook.

! CAUTION

Vehicles with Automatic Transmission — Never tow your vehicle lifted from the front with the rear wheels on the ground, as this may cause serious damage to the automatic transmission. Use flat bed towing only.

! CAUTION

Use only the towing hook provided, for towing in an emergency. Do not tow by the bumper or any other part which may be damaged.

Use only the cable or chain specifically intended for use in towing vehicles.

A driver must be in the vehicle being towed to steer and operate the brakes. Towing in this manner must be done only on hard-surfaced roads for short distances and at low speeds. Also, the wheels, axles, drive train, steering and brakes must all be in good working condition.

Avoid sudden starts or erratic driving maneuvers, which would place excessive stress on the towing hook and towing cable or chain, resulting in breakage of the hook or the chain.

If the engine is not running, the power assist for the steering and brakes will not be functional, making it harder to steer or brake than usual.

Use only a cable or chain specifically intended for use in towing vehicles.

When lifting the rear wheels, take care to ensure adequate ground clearance for towing at the front end of the raised vehicle. The bumper and/or underbody of the vehicle may be damaged during towing.

13.6 Limp Home Mode

Limp home mode is an emergency situation declared by the EMS (Engine Management System) due to failure of one/more critical sensors/actuators. In this mode, the EMS (Engine Management System) will revert back to basic minimum requirement (fuel quantity / injection timings) to aid the driver to bring the vehicle back to the nearest workshop. Needless to say the drivability & fuel consumption will be greatly affected.

If vehicle acceleration worsens or if there is a drop in vehicle performance, there might be a malfunction in the engine management system which triggers/activates the Limp Home Mode. This condition is accompanied by the check engine lamp illuminating in the instrument cluster. In this mode, the vehicle speed is limited and the accelerator pedal may not function normally. It is recommended you contact an Authorized Mahindra Dealer immediately for assistance.



14 MAINTENANCE

14.1 General Owners Information

Your vehicle has been designed for fewer maintenance requirements with longer service intervals to save both your time and money. However, each regular maintenance, as well as day-to-day care is more important to ensure a smooth, trouble free, safe and economical operation.

It is the owner's responsibility to make sure the specified maintenance, including general maintenance service is performed. Note that both the new vehicle limited warranty and emission control system limited warranties specify that proper maintenance and care must be performed. See Service Coupon Booklet for complete warranty information.

Where to go for service?

Mahindra technicians are well trained specialists and are kept up to date with the latest service information through technical bulletins, service tips and in dealership training programs. They learn to work on Mahindra vehicles before they work on your vehicle, rather than while they are working on it.

You can be confident that your Mahindra dealer's service department does the best job to meet the maintenance requirements on your vehicle reliably and economically.

Get the most from your vehicle with routine maintenance

Routine maintenance is the best way to help ensure you get the performance, dependability, long life and better resale value you expect from your vehicle. This is exactly why we've put together this Maintenance Section. It outlines the services required to properly maintain your vehicle and when they should be performed. The focus is on maintaining your vehicle while it's running great, which goes a long way toward preventing major repairs and expenses later.

Here are a few suggestions to help you get started on routine maintenance:

- Familiarize yourself with your vehicle by going through your Owner's Manual
- Take a few minutes to review this Maintenance Section
- Make it a habit to use this manual to record scheduled maintenance in the Service Coupon Booklet
- Consult with your Authorized Mahindra Dealer for all your vehicle's needs

14.2 Suggestions for Obtaining Service for your Vehicle

Prepare for the Appointment

If you have warranty work to be done, be sure to have the right papers with you. All work to be performed may not be covered by



the warranty. Discuss additional charges with the service manager. Keep a maintenance log of your vehicle's service history.

Prepare a List

Make a written list of your vehicle's problems or the specific work you want done. If you've had an accident or work done that is not on your maintenance log, let the service advisor know about it.

Be Reasonable with Requests

If you list a number of items and you must have your vehicle by the end of the day, discuss the situation with the service advisor and list the items in order of priority.

14.3 Need Assistance?

It is recommended talking to an Authorized Mahindra Dealer service manager first. Most matters can be resolved with this process. If for some reason you are still not satisfied, talk to the general manager or owner of the dealership.

If an Authorized Mahindra Dealership is unable to resolve the concern, you may contact any Mahindra Customer Care executive. They would need the following information:

Owner's name and address, owner's telephone number (home and office), Authorized Dealership name, Vehicle Identification Number (VIN), vehicle delivery date and mileage.

14.4 Warranty Information

Read the Warranty Information given in the '**Warranty Information & Maintenance Guide**' for the terms and provisions of Mahindra warranties applicable to this vehicle. Mahindra genuine parts, fluids, lubricants and accessories are available at any Authorized Mahindra Dealer. They will help keep the vehicle operating at its best.

14.5 Protect your Warranty

Routine maintenance is not only the best way to help keep your vehicle performing as intended, it's also the best way to protect your warranty. Failure to perform scheduled maintenance specified in the Service Coupon Booklet will invalidate warranty coverage on parts affected by the lack of maintenance. We can't stress enough how important it is to keep records of all maintenance. Damage or failures due to neglect or lack of proper maintenance are not covered under warranty.

Keeping **maintenance records** is easy with the service coupon booklet

It's important to document the maintenance of your vehicle. For your convenience to maintain records of service, the scheduled maintenance coupons are provided in the service coupon booklet. Every time you bring your vehicle in for scheduled maintenance, be sure to present this booklet and certify the work. Also record the date of service and mileage at the time of service. This will make



record keeping easy and, should your vehicle ever require warranty coverage, you will have all the documentation to show you've properly maintained it.

14.6 Maintenance Interval

Mahindra establishes recommended maintenance intervals based upon engineering testing to determine the most appropriate mileage to perform the various maintenance services. This protects your vehicle at the lowest overall cost to you. Mahindra recommends that you do not deviate from the maintenance schedules presented in this Maintenance Schedule.

14.6.1 Oils, Fluids and Flushing

In many cases, fluid discoloration is a normal operating characteristic by itself, and does not necessarily indicate a concern or that the fluid needs to be changed. However, discolored fluids that also show signs of overheating and/or foreign material contamination should be inspected immediately by a qualified expert such as the factory trained technicians at your Authorized Mahindra Dealer. Your vehicle's oils and fluids should be changed at the specified intervals or in conjunction with a repair.

14.6.2 Chemicals and Additives

Non-Mahindra approved chemicals or additives are not required for factory recommended maintenance. In fact, Mahindra recommends against the use of such additive products unless specifically recommended by Mahindra for a particular application.

Your vehicle is very sophisticated and built with multiple complex performance systems. Every manufacturer develops these systems using different specifications and performance features. That's why it's important to rely on your Authorized Mahindra Dealer to properly diagnose and repair your vehicle.

When planning your maintenance services, consider your Authorized Mahindra Dealer for all your vehicle's needs.

14.6.3 Get the most from your service and maintenance visits

Getting your vehicle serviced at an Authorized Mahindra Dealer adds great value to your vehicle in number of ways. Hence, it is recommended to service your vehicle at an Authorized Mahindra Dealer only.

14.7 Vehicle Self Maintenance - General Precautions

- Refer to relevant sections of the manual before starting
- Set the parking brake
- Block the wheels to prevent the vehicle from moving unexpectedly
- Turn OFF the engine and remove the key
- Stay clear of hot vehicle parts
- Avoid repeated contact with fluids
- Do not let fuel, coolant and other fluids spill over electrical and hot vehicle parts
- Keep all open flames and other burning material like cigarettes away from the battery and all fuel related parts

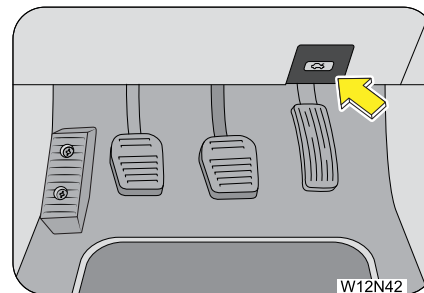
! WARNING

Do not start/run the engine when any engine/peripheral parts are removed.

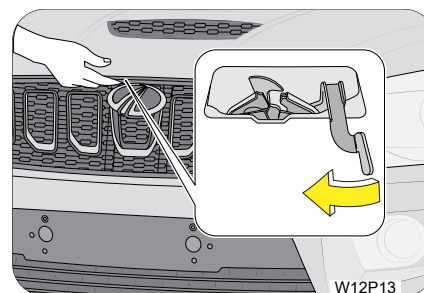
14.8 Opening/Closing the Hood

The hood release lever is located in the driver side foot well area, below the instrument panel. To open the hood, follow the steps below;

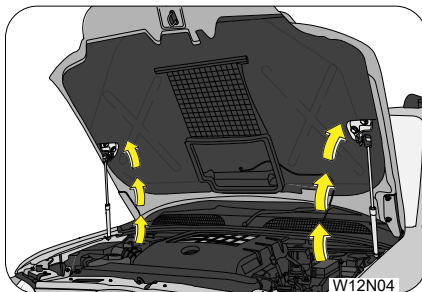
1. Pull the lever to release the hood



2. Lift the hood a little to access the safety latch holding the hood striker. This safety latch is located below the hood at the center
3. Move the safety latch to the left and lift the hood slightly



4. Halfway up, lift the hood and support it by the stay rod (select variants the hood lifts up automatically supported by the gas struts on either side)



3. Firmly press the hood down with both your hands to engage the primary latch. This ensures that safety latch firmly locks the hood in its fully closed position

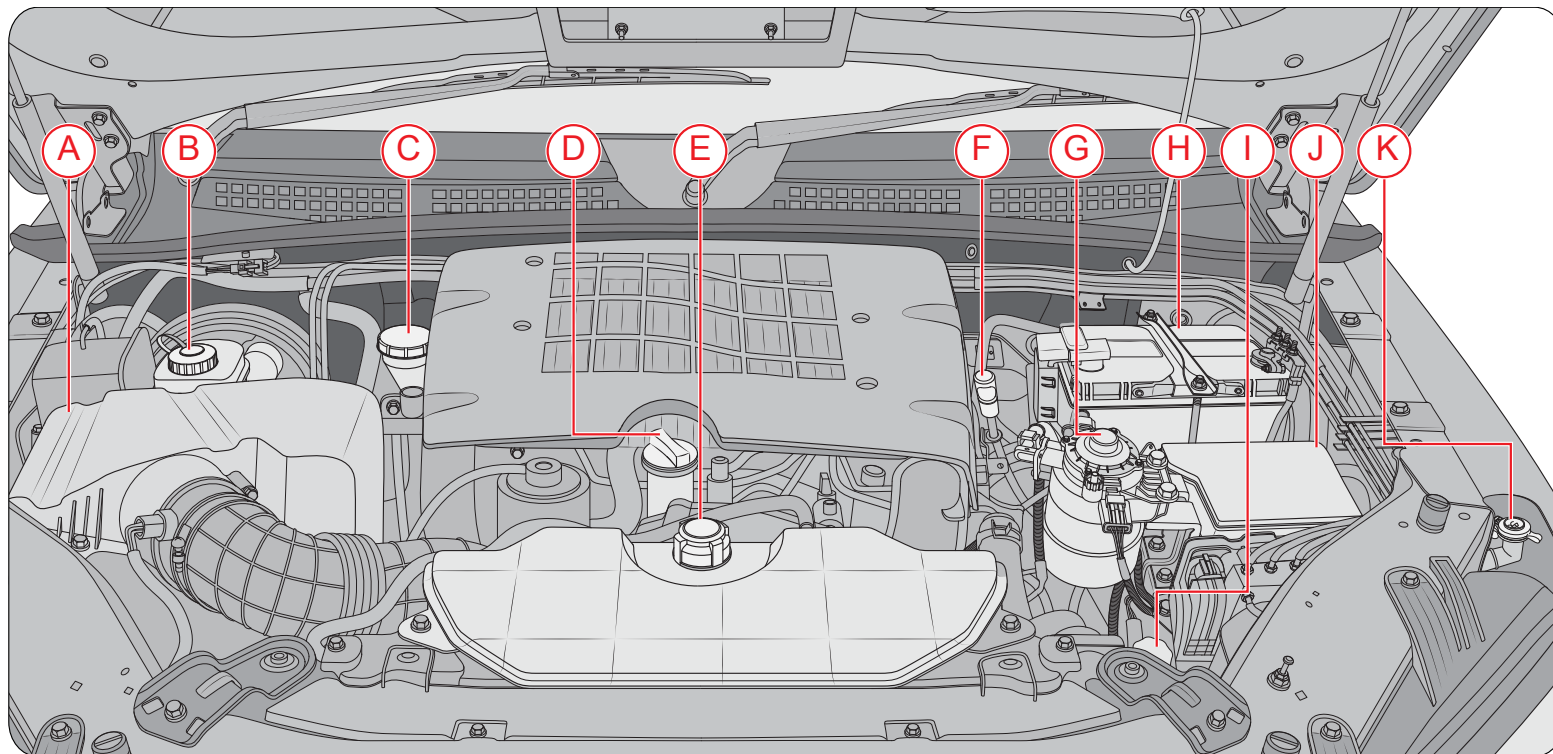
 WARNING

- *Do not open the hood immediately after a drive; the engine compartment will be very hot*
- *Always double check to be sure that the hood is firmly latched before driving away. If it is not latched properly, the hood could open while the vehicle is being driven, causing a total loss of visibility, resulting in an accident*
- *Do not move the vehicle with the hood in the raised position, as vision is obstructed*

Follow the below steps to close the hood;

1. Pull the hood down to a few inches above its fully closed position
2. Now, release the hood and allow it to fall by its own weight. The secondary latch is engaged now.

14.9 Identifying Components in the Engine Compartment





A	Air Cleaner Assembly	G	Fuel Priming Pump
B	Brake Fluid Reservoir	H	Battery
C	Clutch Fluid Reservoir	I	Power Steering Fluid Reservoir
D	Engine Oil (Engine Oil Filling)	J	Engine Compartment Fuse Box
E	Degassing Tank (Coolant Filling)	K	Front Windshield Washer Fluid Reservoir
F	Dipstick (Engine Oil Level Checking)		

Maintenance is classified as below;

- General Maintenance
- Scheduled Maintenance

14.10 General Maintenance

WARNING

Exercise extreme caution when the hood is open and engine is ON.

Listed below are the general maintenance items that should be performed frequently. In addition to checking the items listed below, if you notice any unusual noise, fluid leakages, smell or vibration, you

should investigate the cause or take your vehicle to your Authorized Mahindra Dealer or a qualified service shop immediately.

CAUTION

Make these checks only with adequate ventilation if you intend to run the engine.

In the Engine Compartment

- Front windshield washer fluid level



- Engine coolant level
- Battery condition
- Brake/Clutch fluid level
- Engine oil level
- Power steering fluid level
- Fluid leaks
- Hoses, joints and pipes for any abnormalities

Inside the Vehicle

- Lights
- Warning lamps
- Windshield wipe and wash
- Steering wheel
- Seats
- Seat belts
- Accelerator pedal
- Brake pedal
- Brakes
- Parking brake
- Gear lever shift mechanism

Outside the Vehicle

- Lamps
- Fluid leaks
- Doors and engine hood latches
- Tire inflation pressure
- Tire surface/thread and wheel nuts

14.11 In the Engine Compartment

14.11.1 Fluid Leaks

Check the engine compartment and the underbody of the vehicle for any leaks. If you smell fuel vapor or notice any leak, have the cause found and corrected immediately.

14.11.2 Engine Oil

Engine oil has the primary function of lubricating and cooling the inside of the engine. It plays a major role in maintaining the engine in proper working order. Therefore, it is essential to check the engine oil regularly.

14.11.3 Engine Oil Consumption

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

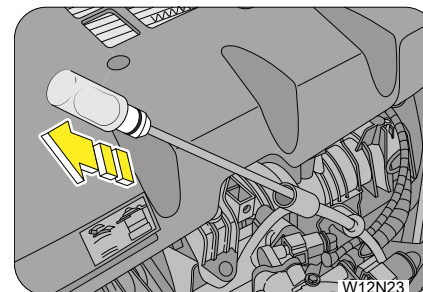
Causes of consumption in a normal engine are as follows;

- Oil is used to lubricate pistons, piston rings and cylinders. Thin films of oil, left over when pistons move in cylinders, are sucked into the combustion chamber due to high negative pressure generated when the vehicle is decelerating. This oil gets burnt in the combustion chamber
- Oil is also used to lubricate the stems of intake valves. Some of this oil is sucked into the combustion chamber together with the intake air and is burnt there
- Engine oil consumption depends upon the viscosity and quality of the oil, and upon the conditions in which the vehicle is driven. Oil consumption will be more due to high speed driving and frequent acceleration and deceleration. A new engine may consume more oil since its pistons, piston rings and cylinder walls are not conditioned

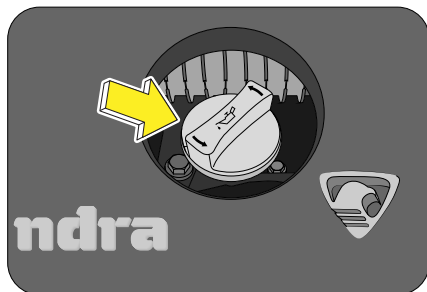
14.11.4 Checking/Topping the Engine Oil

- Make sure the vehicle is on level ground
- Turn the engine OFF and wait a few minutes for the oil to settle down into the oil sump

- Apply the parking brake
- Open the hood. Protect yourself from engine heat
- Locate and carefully remove the engine oil level dipstick



- Wipe the dipstick with a clean cloth. Insert the dipstick fully, then remove it again
- If the oil level is between 'Min' and 'Max' marks, the oil level is acceptable. **DO NOT ADD OIL**
- If the oil level is below the 'Min' mark, add enough oil through the oil filler neck to raise the level within the 'Min' and 'Max' marks. Wait for a few minutes after every top up for the oil to settle down before checking the level.



- Oil levels above the 'Max' mark may cause engine damage/poor performance.
- Put the dipstick and the oil filler cap back and ensure it is fully/properly seated.

⚠ CAUTION

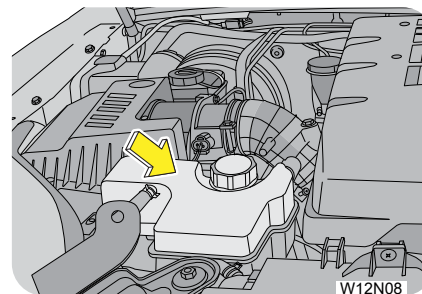
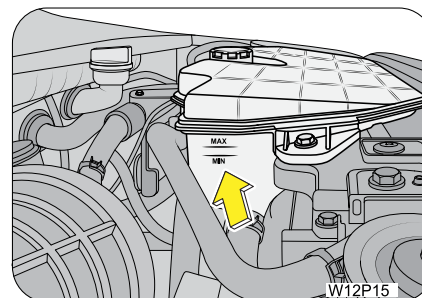
To avoid possible oil loss and injury due to hot blow-by gas, **DO NOT** operate the vehicle with the engine oil level dipstick and/or the engine oil filler cap removed.

⚠ NOTICE

Draining/Changing of engine oil should always be done by an Authorized Mahindra Dealer.

14.11.5 Checking/Topping Engine Coolant Level

- Park the vehicle on a flat-horizontal surface. Keep the parking brake fully engaged. Shut-off the engine



- Wait till the engine cools down and hence coolant temperature comes down to normal room temperature



- The coolant level should be between 'MIN' and 'MAX' marking provided on the coolant recovery tank
- In case the coolant level is below the 'MIN' marking, the coolant should be topped-up
- The coolant should be filled till the level rises above the 'MIN' but remain below the 'MAX' marking on the coolant recovery tank
- However if the Coolant Recovery Tank is found to be near empty, it is recommended that the system be checked at an Authorized Mahindra Dealer

⚠ WARNING

Never open the pressure cap when the engine is hot. Hot coolant may splash resulting in serious personal injury or severe burns by the erupting liquid.

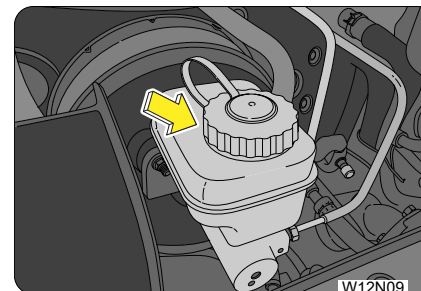
⚠ NOTICE

Top up only with recommended Ready-To-Use (RTU) coolants for ensuring performance, anti-freezing and corrosion protection. Do not add water directly. Mixing with other brands of coolant is not recommended and should be avoided.

⚠ NOTICE

Draining or changing of engine coolant should always be done by an Authorized Mahindra Dealer.

14.11.6 Checking/Topping Brake Fluid



The brake system is supplied with brake fluid from the brake fluid reservoir located adjacent to the air filter.

The brake fluid level will drop slowly as the brakes wear, and will rise when the brake components are replaced. Fluid levels between the 'MIN' and 'MAX' lines are within the normal operating range; there is no need to add fluid. If the fluid levels are below the 'MIN' mark, the performance of the systems could be compromised; the brake operation could be spongy.

Top-up the recommended brake fluid till the 'MAX' mark or contact an Authorized Mahindra Dealer immediately.

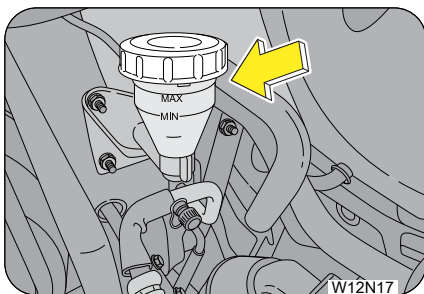
Carefully clean the cap on the reservoir before you remove it and be sure no debris fall in the reservoir. Do not keep the reservoir open for longer than necessary to add brake fluid.

Use only brake fluid that meets Mahindra specifications. Refer to the 'Lubricant and Capacities' section.

! NOTICE

Draining or changing of brake fluid should always be done by an Authorized Mahindra dealer.

14.11.7 Checking/Topping Clutch Fluid



The clutch system is supplied with clutch fluid from the clutch fluid reservoir located adjacent to the brake fluid reservoir on the firewall.

Fluid levels between the 'MIN' and 'MAX' lines are within the normal operating range; there is no need to add fluid. If the fluid levels are below the 'MIN' mark, the performance of the systems could be

compromised; the clutch operation could be spongy and gear change harder.

Top-up the recommended clutch fluid till the 'MAX' mark or contact an Authorized Mahindra Dealer immediately.

Carefully clean the cap on the reservoir before you remove it and be sure no debris fall in the reservoir. Do not keep the reservoir open for longer than necessary to add brake fluid.

Use only clutch fluid that meets Mahindra specifications. Refer to the 'Lubricant and Capacities' section.

! NOTICE

Draining or changing of clutch fluid should always be done by an Authorized Mahindra Dealer.

14.11.8 Checking/Topping Power Steering Fluid

Check the power steering fluid level at the defined service intervals. Refer to Maintenance Chart for details.

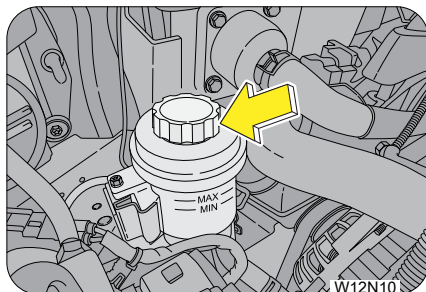
The fluid level should be checked if a leak is suspected, abnormal noises are apparent, and/or the system is not functioning as anticipated. Coordinate inspection efforts through an Authorized Mahindra Dealer.



⚠ CAUTION

Driving a vehicle with power steering fluid below the minimum mark will damage steering system.

Use only recommended power steering fluid. Do not use other types of power steering fluids which may damage the power steering system.



⚠ WARNING

The fluid level in the reservoir should be checked on a level surface with the engine OFF to prevent injury from moving parts and to ensure accurate fluid level reading.

Follow the below steps for checking and topping up the power steering fluid;

1. Start the engine and let it run until it reaches normal operating temperature

2. While the engine idles, turn the steering wheel left and right a couple of times
3. Turn the engine OFF
4. Check the power steering fluid level in the reservoir
5. The fluid level should be maintained between the '**MIN**' and '**MAX**' marks on the dipstick, integrated with the cap
6. If the fluid is low, add fluid in small amounts, continuously checking the level until it reaches the correct operating range. Be sure to put the cap back on the reservoir
7. With a clean cloth, wipe any spilled fluid from all surfaces

⚠ NOTICE

Changing of power steering fluid should always be done by an Authorized Mahindra Dealer.

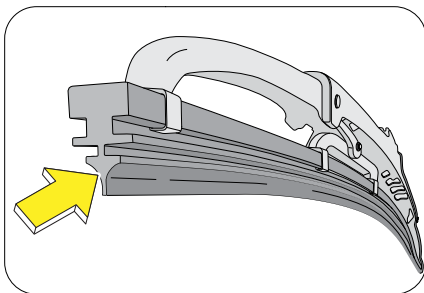
14.11.9 Windshield Washer Fluid Top-up

Top up the windshield washer reservoir as and when required. The fluid reservoir is located on the LHS of the engine bay behind the left head lamp. The reservoir supplies washer fluid to both front and rear (if equipped).

In very cold weather conditions, fill the reservoir with washer fluid premixed with anti-freeze.

! CAUTION

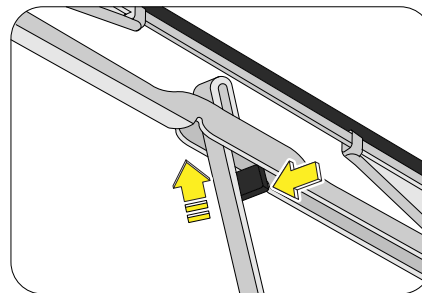
If you operate your vehicle in temperatures below 4.5°C, use washer fluid with anti-freeze protection. Failure to use washer fluid with anti-freeze protection in cold weather could result in impaired windshield vision and increase the risk of injury or accident.

14.11.10 Checking the Wiper Blades

Lift the wiper arm from its position. Expose the blade lip for inspection. Clean the wiper blade lips with water applied with a soft sponge. If the wiper blade is not wiping the glass satisfactorily or is worn-out, cut, cracked or bulging get it replaced at an Authorized Mahindra Dealer.

14.11.11 Changing the Wiper Blade

1. Lift the arm and position the wiper blade at right angles to the wiper arm
2. Press the retaining clip in the opposite direction, disengage the wiper blade and pull it off the arm

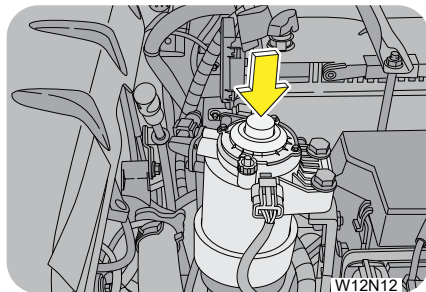


To prevent damage to the windshield, don't let the wiper arm slap down on to it.

3. Hold the end of the rubber and pull until the tabs are free of the metal support
4. Carefully insert the new blade rubber. Then install the blade assembly in the reverse order of removal



14.11.12 Fuel Filter Bleeding/Priming



When the fuel level in the fuel tank falls very low, air may enter the fuel lines which leads to the engine not starting or abrupt switching OFF.

The air has to be removed from the fuel pump by bleeding and priming the fuel pump. The fuel pump is located next to the power steering fluid reservoir in the engine bay. Unscrew the drain nut below the pump by 1-2 turns and observe fuel flow. If there is no fuel flow or intermittent flow, close the drain nut and pump the fuel filter repeatedly using your palm. Again check for fuel flow by unscrewing the drain nut. Once the flow is normal, tighten the drain nut and try starting the engine. If it fails, drain/pump few more times and retry. If the engine still does not start, contact your nearest Authorized Mahindra Dealer for assistance.

14.12 Maintenance - Inside the Vehicle

14.12.1 Lights

Make sure the headlights, stop lights, tail lights, turn signal lights and other lights are all working. Check headlight aim.

14.12.2 Warning Messages and Lamps

Check all warning lamps appearing in the instrument cluster and DDAS. Refer to the relevant sections in this manual for further details.

14.12.3 Seats

Check that all seat controls such as seat adjusters, seat back recliner, etc. operate smoothly and that all latches lock securely in any position. Check that the head restraints move up and down smoothly and that the locks hold securely in any latched position.

14.12.4 Seat Belts

Check that the seat belt system such as buckles, retractors and anchors operate properly and smoothly. Make sure the belt webbing is not cut, frayed, worn or damaged.



14.12.5 Accelerator Pedal

Check the pedal for smooth operation, uneven pedal effort or stickiness. Check the foot well and remove obstructions if any.

14.12.6 Brake Pedal

Check the pedal for smooth operation and proper clearance. Check the foot well and remove obstructions if any.

14.13 Maintenance - Outside the Vehicle

The following checks should be carried out from time to time, unless otherwise specified.

14.13.1 Lamps

Check and ensure proper functioning of all exterior lamps.

14.13.2 Fluid Leaks

Check the engine compartment and the underbody of the vehicle for any leaks. If you smell fuel vapor or notice any leak, have the cause found and corrected immediately.

14.13.3 Doors and Engine Hood

Check all doors and latches including the tailgate for proper functioning. Make sure the engine hood secondary latch secures the hood from opening when the primary latch is released.

14.13.4 Tyre Inflation Pressure

Check the tire pressure with a pressure gauge every week.

14.14 Battery

Your vehicle is equipped with a Mahindra genuine battery. For longer, trouble-free operation, keep the top of the battery clean and dry. Also, make certain the battery cables are always tightly fastened to the battery terminals.

If you see any corrosion on the battery or terminals, remove the cables from the terminals and clean with a wire brush. To prevent corrosion, apply petroleum jelly to the battery terminals. Tighten loose terminals and hold down clamp nuts only enough to keep the battery firmly in place. Tightening excessively may damage the battery terminals.



14.14.1 For Best Battery Service

- Keep the battery securely mounted
- Keep the battery top clean and dry
- Keep the terminals and connections clean, tight and coated with petroleum jelly or terminal grease
- Rinse any spilled electrolyte from the battery immediately with a solution of water and baking soda

⚠ CAUTION

Do not disconnect battery terminals while the engine is running. This will adversely affect all electronic controllers.

⚠ WARNING

While removing the battery, always disconnect the negative terminal first. And while installing the battery, ensure the negative terminal is connected last.

It is recommended that the negative battery cable terminal be disconnected from the battery if you plan to store your vehicle for an extended period of time. This will minimize the discharge of your battery during storage.

⚠ WARNING

Battery fluid is a corrosive acid solution; do not allow battery acid to contact eyes, skin or clothing. Don't lean over battery

when attaching clamps or allow the clamps to touch each other. If acid splashes in the eyes or on the skin, flush contaminated area immediately with large quantities of water.

A battery generates hydrogen gas which is flammable and explosive. Keep any flame or spark away from the vent holes.

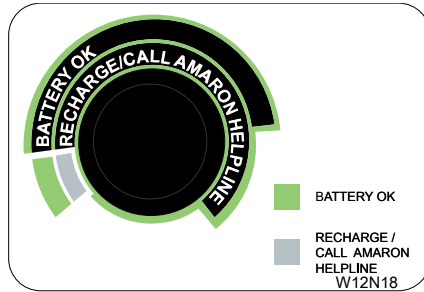
Keep batteries out of reach of children. Battery posts, terminals and related accessories contain lead and lead components. Wash hands after handling batteries.

If the battery has been disconnected or a new battery has been installed, the clock (if equipped) and the preset radio (if equipped) stations must be reset once the battery is reconnected.

The replacement battery must meet the specification of the originally fitted battery.

14.14.2 Battery Charge Indicator - Amaron (if equipped)

A battery charge indicator is provided for Amaron batteries to view the charge status at a glance. Green indicates the battery is okay, and light blue indicates battery needs recharge or technical assistance from Amaron.

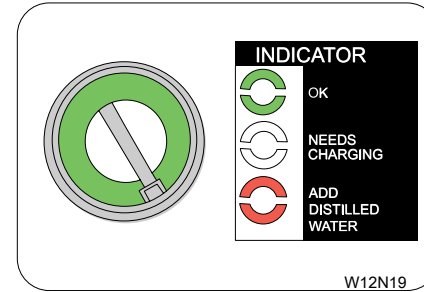


14.14.3 Battery Charge Indicator - Exide (if equipped)

A battery charge indicator is provided for Exide batteries to view the charge status at a glance.

Three charge indicators are provided which give the following information;

- **GREEN** —OK (Battery condition good)
- **WHITE** — Needs charging
- **RED** —Add distilled water



14.14.4 Checking the Electrolyte Level

Check the electrolyte level and specific gravity at intervals of three months. Check all the six cells for proper electrolyte levels. If the level is below the lower marker, add distilled water until the level reaches the upper marker.

Adding distilled water;

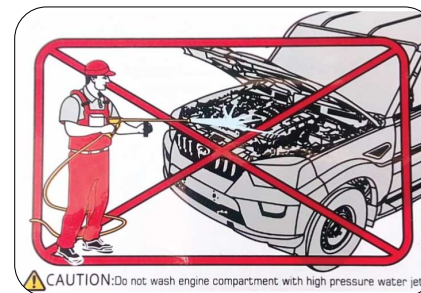
- Remove the vent plugs
- Add distilled water to all the cells that require the fluid and secure the plugs properly

14.15 Appearance Care and Protection

14.15.1 Washing the Exterior

- Wash your vehicle regularly with cool or lukewarm water and a neutral pH soap
- Never use strong household detergents or soap, such as dish washing or laundry liquid. These products can discolor and spot painted surfaces
- Never wash a vehicle that is 'hot to the touch' or during exposure to strong, direct sunlight
- Always use a clean sponge or car wash mitt with plenty of water for best results
- Dry the vehicle with a chamois or soft terry cloth towel in order to eliminate water spotting
- It is especially important to wash the vehicle regularly during the winter months, as dirt and road salt are difficult to remove and cause damage to the vehicle
- Immediately remove items such as gasoline, diesel fuel, bird droppings and insect deposits; they can cause damage to the vehicle's paint work and trim over time

14.15.2 Engine Compartment



CAUTION

Do not wash the engine or engine compartment with pressurized water.

14.15.3 Exterior Chrome

- Wash the vehicle first, using cool or lukewarm water and a neutral pH shampoo
- Use the custom bright metal cleaners, available at your Authorized Mahindra Dealer. Apply the product as you would wax to clean chrome parts; allow the cleaner to dry for a few minutes, and then wipe off the haze with a clean, dry rag
- Never use abrasive materials such as steel wool or plastic pads as they can leave scratches on the chrome surface



- After polishing the chrome parts, you can also apply a coating of Premium Liquid Wax, available at your Authorized Mahindra Dealer, or an equivalent quality product to help protect from environmental effects

14.15.4 Paint Chips

- Mahindra dealers have the exact touch-up paint to match your vehicle's color
- Take your vehicle to an Authorized Mahindra Dealer for paint touch-up or paint repairs
- Remove particles such as bird droppings, tree sap, insect deposits, tar spots, road salt and industrial fallout before repairing paint chips
- Always read the instructions before using the products

14.15.5 Aluminium Wheels And Wheel Covers (if equipped)

Aluminum wheels and wheel covers are coated with a clear coat of paint finish. In order to maintain their shine;

- Clean weekly with wheel and tire cleaner, which is available at your Authorized Mahindra Dealer. Heavy dirt and brake dust accumulation may require agitation with a sponge. Rinse thoroughly with a strong stream of water

- Never apply any cleaning chemicals to hot or warm wheel rims or covers
- Do not use hydrofluoric acid-based or high caustic-based wheel cleaners, steel wool, fuels or strong household detergents

14.15.6 Plastic (Non-painted) Exterior Parts

Use only approved products to clean plastic parts. These products are available with your authorized dealer. You can use these cleaners;

- For routine cleaning of plastic parts
- For tar or grease spots
- For plastic head lamp lenses

14.15.7 Windows and Wiper Blades

The front/rear windshield, side windows and the wiper blades should be cleaned regularly. If the wipers do not wipe properly, substances on the vehicle's glass or the wiper blades may be the cause. These may include hot wax treatments used by commercial car washes, water repellent coatings, tree sap, or other organic contamination; these contaminants may cause squeaking or chatter noise from the blades, and streaking and smearing of the windshield.



To clean these items follow these tips;

- The windshield, rear windows and side windows may be cleaned with a non-abrasive cleaner such as Clear Spray Glass Cleaner, available at your Authorized Mahindra Dealer.
- The wiper blades can be cleaned with alcohol or Premium Windshield Washer Concentrate, available at your Authorized Mahindra Dealer. This washer fluid contains a special solution in addition to alcohol which helps remove the hot wax deposited on the wiper blade and windshield. Be sure to replace wiper blades when they appear worn or do not function properly.
- Do not use abrasives, as they may cause scratches.
- Do not use fuel, kerosene, or paint thinner to clean any glass parts.

If you cannot remove those streaks after cleaning with the glass cleaner or if the wipers chatter and move in a jerky motion, clean the outer surface of the windshield and the wiper blades using a sponge or soft cloth with a neutral detergent or mild-abrasive cleaning solution. After cleaning, rinse the windshield and wiper blades with clean water. The windshield is clean if beads do not form when you rinse the windshield with water.

Do not use sharp objects, such as a razor blade, to remove decals, as it may cause damage to the glass or rear windshield heater grid lines (if equipped).

14.15.8 Instrument Panel/Interior Trim and Cluster Lens

NOTICE

Do not use chemical solvents or strong detergents when cleaning the steering wheel or instrument panel.

Clean the instrument panel, interior trim areas and cluster lens with a clean and damp white cotton cloth, then with a clean and dry white cotton cloth; you may also use Dash and Vinyl Cleaner on the instrument panel and interior trim areas.

- Avoid cleaners or polishes that increase the gloss of the upper portion of the instrument panel. The dull finish in this area helps protect the driver from undesirable windshield reflection
- Do not use household or glass cleaners as these may damage the finish of the instrument panel, interior trim and cluster lens

If a staining liquid like coffee/juice has been spilled on the instrument panel or on the interior trim surfaces, clean as follows;

- Wipe up spilled liquid using a clean white cotton cloth
- Apply Vinyl Cleaner to the wiped area and spread around evenly
- Apply cleaner to a clean white cotton cloth and press the cloth onto the soiled area and allow this to set in at room temperature for 30 minutes
- Remove the soaked cloth, and if it is not soiled badly, use this cloth to clean the area with a rubbing motion for 60 seconds



- Following this, wipe area dry with a clean white cotton cloth

14.15.9 Interior Maintenance

For fabric, carpets, cloth seats, safety belts and seats:

- Remove dust and loose dirt with a vacuum cleaner
- Remove light stains and soil with carpet and upholstery cleaner
- If grease or tar is present on the material, spot-clean the area first with a stain remover
- Do not use household cleaning products or glass cleaners, which can stain and discolor the fabric and affect the flame retardant abilities of the seat materials
- Do not use cleaning solvents, bleach or dye on the vehicle's safety belts, as these actions may weaken the belt webbing.

14.15.10 Leather Seats (where applicable)

Your leather seating surfaces have a clear, protective coating over the leather.

- To clean, use a soft cloth with a leather and vinyl cleaner. Dry the area with a soft cloth
- To help maintain its resiliency and color, use the leather care kit, available from an Authorized Mahindra Dealer

- Do not use household cleaning products, alcohol solutions, solvents or cleaners intended for rubber, vinyl and plastics, or oil/petroleum-based leather conditioners. These products may cause premature wearing of the clear, protective coating

NOTICE

In some instances, a color or dye transfer can occur when wet clothing comes in contact with leather upholstery. If this occurs, clean the leather immediately to avoid permanent staining.

14.15.11 Underbody

Flush the complete underside of your vehicle frequently. Keep body and door drain holes free from packed dirt. You can also use an anti-corrosion spray for the underbody to avoid rusting and corrosion especially for vehicles in coastal places.

14.16 Air Conditioning System Maintenance

Your vehicle's air-conditioning is a sealed system. Any major maintenance, such as recharging should be done by a qualified technician. However, you can do a few things by yourself to make sure the air conditioning works efficiently.

Run the air-conditioning system at least once a week, even during the cold weather months. Run it for at least ten minutes with the



engine running at normal operating temperature. This circulates the lubricating oil contained in the refrigerant.

CAUTION

Whenever you get the air-conditioning system serviced, make sure the service facility uses a refrigerant recycling system. This system captures the refrigerant for re-use. Releasing the refrigerant into the atmosphere may cause damage to the environment.

14.17 Vehicle Storage

If you are leaving your vehicle for more than 2 weeks you may want to take stopping to protect your battery. Disconnect the negative cable from the battery. Anytime you store your vehicle, or keep it out of service (i.e. vacation) for two weeks or more, run the air conditioning system at idle for about five minutes in the fresh air mode and high blower speed setting. This will ensure adequate system lubrication to minimize the possibility of compressor damage when the system is started again.

It is recommended storing the vehicle in a covered, clean, dry, well leveled, ventilated and closed place.

14.18 Winter Care

14.18.1 Dealing With Ice

Make sure you have window ice scrapers and de-icers for the locks. When you're stuck, having a small shovel is useful to dig out of the snow. The weight of a bag of sand in the trunk will give added traction in rear-wheel drive vehicles and can be used to sprinkle on the snow and ice to gain better traction. And don't forget personal protection such as a warm coat, hat, gloves and a blanket, in case you get stuck in a storm.

14.18.2 Keep Enough Fuel in the Tank

Never let the fuel level in the tank drop below the half-full mark. A sudden storm with unexpected heavy rains could leave you stranded for hours. Having adequate fuel supply will allow you to idle the engine from time to time to keep warm.

Do not:

- Tap the ice on the window to crack it or chip it for a good place to start scraping. You could end up cracking more than the ice and end up with a cracked or shattered windshield/ window
- Pour warm or hot water on the windshield to melt ice. This will crack your windshield



14.18.3 During Winter Storage

Start the engine occasionally, here are a few pointers to keep in mind;

- Run it in a well ventilated area. Carbon monoxide can build up quickly
- Run for a minimum of 20 minutes to allow the engine to come up to the normal operating temperature. This will allow the oil to circulate and will also open up the thermostat so that your radiator anti-freeze circulates as well
- Start up the air conditioner and/or heater and run both for 10 minutes or so. Again, circulating fluids is essential for good life of the system
- If your vehicle has power steering, you may want to turn the wheels a few times to keep the fluids flowing

14.18.4 Exterior

Wash and wax your car to provide an extra layer of protection to your paint.

14.18.5 Vinyl and Rubber

Use a good conditioner on all vinyl and rubber parts to prevent from drying out.

14.18.6 Interior

Clean the glass, shampoo the carpets, dig in between the seats to see what's there, clean the upholstery in all nooks and corners.

14.18.7 Engine

Check all hoses and wires to make sure everything is in good condition and replace any that need to be. The last thing to do is to make sure the internal components of the engine remain lubricated and don't corrode.



NOTICE

If the engine is being started after a very long period of non-use, warm up the engine at an idle speed for 2-3 minutes before driving the vehicle.

14.19 Bulb Replacement

14.19.1 Head Lamp Bulb Replacement



NOTICE

The head lamp bulb can be replaced without removing the head lamp assembly from the vehicle. The head lamp assembly has been removed here for illustration purpose only.



To replace the head lamp bulb;

- Ensure ignition is switched OFF
- Remove rear dust cover from the head lamp
- Remove the bulb assembly with connector from the head lamp by unlocking the wire clamp
- Detach the bulb assembly from the wiring connector near to the head lamp
- Insert the connector into the new bulb (of the same wattage), and follow the reverse procedure to assemble the bulb assembly in the headlight assembly
- Clamp the bulb assembly by wire clamp properly

! CAUTION

Do not touch the new bulb with your fingers. Oil contamination will severely shorten bulb life. If the bulb comes in contact with any oily surface, clean the bulb with rubbing alcohol.

! CAUTION

To avoid burning yourself, do not replace the light bulbs when they are hot. Halogen bulbs have pressurized gas inside and are to be handled with special care. Mishandling it may cause the bulb to burst or shatter. Hold the bulb with its metal/plastic holder/base and do not touch the glass part with bare hands.

Using bulbs with units of higher output capacity/wattage is illegal and may damage your vehicle's electrical system.

Replacement bulbs must meet the specification of originally fitted bulbs.

14.20 Scheduled Maintenance

The scheduled maintenance jobs listed in the 'Scheduled Maintenance Chart' are those required to be carried out at regular predetermined intervals.

To make sure that your vehicle runs efficiently all the time, follow the maintenance schedule. The service interval for the scheduled maintenance is determined by the odometer reading. Take your vehicle to an Authorized Mahindra Service Station only. Trained technicians and genuine Mahindra parts at Mahindra Authorized service stations are best for your vehicle. They will perform all the scheduled maintenance jobs reliably and economically. Inadequate, incomplete and insufficient servicing may result in problems.

The owner should retain records/documents that proper maintenance has been performed as prescribed.

14.21 Maintenance Schedule Chart

Description	Change Interval	Free Services			Paid Services								
		5000	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000	
A = Adjust as Necessary I = Inspect and correct. Replace if worn out or faulty R = Replace L = Lubricate C = Clean													
ENGINE													
Engine Oil 1	First 5,000, 20,000 kms, then every 20,000 kms	R	I	R	I	R	I	R	I	R	I	R	
Engine Oil Filter	First 5,000, 20,000 kms, then every 20,000 kms	R		R		R		R		R		R	
Auto Tensioner and Belt - Compressor/Water Pump	Every 1,00,000 kms							I		I		R	
Auto Tensioner and Belt - Alternator/Power Steering	Every 1,00,000 kms							I		I		R	
Coolant 3	First 60,000 kms, then every 80,000 kms	I	I	I	I	I	I	R	I	I	I	I	
AIR, FUEL AND EXHAUST													
Air Filter Element 5	Every 20,000 kms			R		R		R		R		R	
Fuel Filter Element	Every 30,000 kms				R			R			R		
Water In Fuel Filter D	Clean at every service	C	C	C		C	C		C	C		C	



Description	Change Interval	Free Services			Paid Services							
		5000	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000
A = Adjust as Necessary I = Inspect and correct. Replace if worn out or faulty R = Replace L = Lubricate C = Clean												
CLUTCH												
Clutch Fluid level and leak 2	Every 40,000 kms or 2 years		I	I	I	R	I	I	I	R	I	I
TRANSMISSION												
Manual Transmission Oil 2	First 10,000 kms, 1,00,000 kms then every 1,00,000 kms		R									R
Transfer Case Oil - 4WD	First 40,000 kms, then every 60,000 kms					R						R
AXLES, WHEELS AND TYRES												
Differential Oil2 (Rear)	First 10,000 kms, then every 60,000 kms		R						R			
Differential Oil (Front) — 4WD Only	First 10,000 kms, then every 60,000 kms		R						R			
Tyre Rotation *	Inspect every 10,000 kms		I	I	I	I	I	I	I	I	I	I
BRAKES												
Brake Fluid - Level And LeakB	Every 40,000 kms or every 2 years		I	I	I	R	I	I	I	R	I	I



Description	Change Interval	Free Services			Paid Services							
		5000	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000
A = Adjust as Necessary I = Inspect and correct. Replace if worn out or faulty R = Replace L = Lubricate C = Clean												
Brake Pads / Calipers	Inspect every 10,000 kms		I	I	I	I	I	I	I	I	I	I
Brake Liners / Drums	Inspect every 20,000 kms			I		I		I		I		I
Parking Brake	Inspect every 10,000 kms		I	I	I	I	I	I	I	I	I	I
SUSPENSION												
Suspension Bushes	Inspect at 10000, then every 20000 kms		I		I		I		I		I	
Suspension Arms and Links	Inspect at 10000, then every 20000 kms		I		I		I		I		I	
STEERING												
Power Steering Fluid - Level And Leak	Inspect every 10,000 kms		I	I	I	I	I	I	I	I	I	I
Wheel Alignment *	Inspect if abnormal conditions are noticed or at 40,000 kms, whichever is earlier											
ELECTRICALS												
Battery Electrolyte Level	Inspect every service	I	I	I	I	I	I	I	I	I	I	I
Battery Electrolyte Specific Gravity	Inspect every 10,000 kms		I	I	I	I	I	I	I	I	I	I



Description	Change Interval	Free Services			Paid Services							
		5000	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000
A = Adjust as Necessary I = Inspect and correct. Replace if worn out or faulty R = Replace L = Lubricate C = Clean												
All Lights, Horns, Wipers And Washers	Inspect every service	I	I	I	I	I	I	I	I	I	I	I
Head Light Aiming	Inspect at 5,000 kms	I										
HVAC												
Particle Filter	Every 10,000 kms		R	R	R	R	R	R	R	R	R	R
FINAL INSPECTION												
Tyre Pressure	Inspect every service	I	I	I	I	I	I	I	I	I	I	I
Under Chassis Nuts And Bolts For Tightness	Inspect at 5,000, 20,000, then every 20,000 kms	I		I		I		I		I		I
Exhaust Pipe Mountings and Damage / Leakage	Inspect at 5,000, 20,000, then every 20,000 kms	I		I		I		I		I		I
Road Test	Inspect every service	I	I	I	I	I	I	I	I	I	I	I
*On chargeable basis;					5- Under extreme operating conditions replace air filter every 10,000 kms							
1- Change as per the kms or 1 year whichever earlier					B - Change brake and clutch fluid every 40,000 km or every 2 yrs whichever earlier							
2- Change as per the kms or 2 years whichever earlier					D- Check and clean as per kms or when indicator glows							



Description	Change Interval	Free Services			Paid Services								
		5000	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000	
A = Adjust as Necessary I = Inspect and correct. Replace if worn out or faulty R = Replace L = Lubricate C = Clean													
3- Change as per the kms or 3 years whichever earlier													
A = Adjust as Necessary; I = Inspect and correct.; Replace if worn out or faulty;R = Replace L = Lubricate ;C = Clean													

Alphabetical Index

2WD/4WD Lamps - Instrument Cluster	11-14
4WD High Lamp	8-41

A

Adjustable Head Restraint	5-3
After Driving Off-road or through Water	11-10
Air Conditioning System Maintenance	14-22
Air Distribution Control	10-5
Air Intake Mode Control	10-8
Air-conditioner ON	10-10
Airbag Deployment	6-6
Airbag Disposal	6-9
Airbag Inflation/Deployment	6-3
Airbag Maintenance	6-9
Airbag Repair	6-9
Airbag Replacement	6-9
Airbag System Malfunction Lamp	6-2
Airbag Warning Lamp	8-40
Airbags	6-1
Aluminium Wheels And Wheel Covers	14-20
Anti-Lock Brake System (ABS)	9-6
Anti-Lockout System	7-5
Anti-lock Brake System (ABS) Malfunction Lamp	8-40
Appearance Care and Protection	14-19
Audio/Infotainment Manual	1-7
Auto Head Lamp	8-10
Auto Locking	7-7
Auto Re-circulation	10-9
Auto Re-locking	7-8
Auto Unlocking	7-7
Automatic Climate Controller	10-5

B

Battery	14-16
Battery Charge Indicator - Amaron	14-17
Battery Charge Indicator - Exide	14-18
Battery Charging System Warning Lamp	8-38

Battery Mounted Fuse Box	2-14
Blower Speed Control	10-6
Brakes	9-4
Bulb Replacements	14-24
Bulb Specification	2-8
Butterfly Window (Rear Quarter Window)	8-4

C

Camera Location	8-56
Can/Cup/Bottle Holders	8-24
Center/Side Vents	10-3
Central Locking System	7-4
Central Locking/Unlocking All Doors from Inside	7-4
Central Locking/Unlocking All Doors from Outside	7-4
Changing a Flat tyre	12-7
Changing the Wiper Blade	14-14
Check Engine Lamp	8-37
Checking the Electrolyte Level	14-18
Checking the Wiper Blades	14-14
Checking/Topping Brake Fluid	14-11
Checking/Topping Clutch Fluid	14-12
Checking/Topping Engine Coolant Level	14-10
Checking/Topping Power Steering Fluid	14-12
Checking/Topping the Engine Oil	14-9
Chemicals and Additives	14-3
Child Restraint and Airbag	6-6
Child Restraint System (CRS)	5-14
Child Safety Rear Door Lock	7-5
Cruise Control	8-59
Cruise Control Warning Lamp	8-41

D

Dealing With Ice	14-23
Defogging/De-misting and Defrosting	10-12
Diesel Fuel Requirement	11-14
Dimensions	2-7
Do's and Don'ts	8-57

Door Ajar Warning Lamp	8-40
Driver and Front Passenger Air Bag	6-1
Driver Seat Height Adjust	5-3
Driving and Operation	8-47
Driving Through Water	11-9
Driving Your Vehicle	11-7

E

EBD Malfunction Lamp	8-40
Electric ORVM Adjustment	8-6
Engine Compartment	14-19
Engine Compartment Fuse Box	2-9
Engine Coolant Temperature Gauge	8-33
Engine Immobilizer System	7-11
Engine Number	2-25
Engine Oil	14-8
Engine Oil Consumption	14-9
Exterior Chrome	14-19
Exterior Lamps	8-7

F

Feature Matrix	2-1
Flat Tire	2-14
Flick-Wipe (Mist)	8-20
Floor Mat (if equipped)	8-26
Flowing Water	11-10
Fluid Leaks	14-8
Fog Lamps	8-12
Foldable Arm-Rests	5-9
Follow-Me Home (FMH) Non RLS	8-14
Follow-Me Home (FMH) with Rain Light Sensor (RLS)	8-13
Four Wheel Drive (4WD) System	11-11
Frequently Asked Questions (FAQ)	8-66
Fresh Air Mode (Outside Air Mode)	10-8
Front Courtesy Lamp — Auto Mode Operation	8-17
Front Courtesy/Map Reading	8-17
Front Fog Lamp	8-40

Alphabetical Index

Front Overview	3-1
Front Seat Recline	5-2
Front Seat Slide	5-2
Front Windshield-Defog	10-13
Fuel	11-14
Fuel Filter Bleeding/Priming	14-15
Fuel Level Gauge	8-34
Fuel-Lid Opening and Closing	11-15
Fuelling during Winter	11-15
Functionalities of Tiretronics System	12-11
Fuses and Relays	2-8

G

Gear Shift Lever	11-5
General Driving Precautions	11-7
General Maintenance	14-7
General Owners Information	14-1
General Safety Information and Instructions	1-2
General Warnings and Instructions	5-10
Get the most from your service and maintenance visits	14-3
Glove Box	8-25

H

Hazard on Panic Braking	8-12
Hazard Warning Lamp	8-15, 13-1
Head Lamp Bulb Replacement	14-24
Head Lamp Flash	8-10
Head Lamp High Beam Lamp	8-38
Head Lamp High Beam/Low Beam	8-9
Head Lamp Leveling System	8-11
Head Lamp On	8-9
Head Restraint	5-3
Heating, Ventilation And Air-Conditioning System(HVAC)	10-1
High Engine Coolant Temperature Warning Lamp	8-39
High Speed Wiping	8-21
Horn	8-27
How Does the Stop/Start System Work?	8-64

How to Calculate Fuel Efficiency (Mileage)	11-17
HVAC Air Filter (Cabin Air Filter)	10-9
HVAC Controls	10-4
HVAC Overview	10-2

I

Identifying Components in the Engine Compartment	14-6
If RKE is Lost	7-11
Ignition Switch	11-2
In the Engine Compartment	14-8
Inflating Your Tires	12-4
Installing Seat Head Restraint	5-4
Instrument Cluster - Type 1	4-1, 8-28
Instrument Cluster - Type 2	4-2, 8-29
Instrument Cluster Gauges	8-30
Instrument Panel Fuse Box	2-11
Instrument Panel Overview	3-3
Instrument Panel/Interior Trim and Cluster Lens	14-21
Interior Lamps	8-16
Interior Maintenance	14-22
Interior Mirror	8-7
Intermittent (INT) Mode	8-20
Introduction	1-1, 6-1

J

Jack Points	2-18
Jack/Wheel Spanner/Warning Triangle	2-15
Jacking	2-18
Jump Starting	13-4

K

Keep Enough Fuel in the Tank	14-23
------------------------------------	-------

L

Lamps Off	8-8
Lead Me to Vehicle (LMV)[if equipped]	8-15
Leather Seats	14-22
Life of Tire	12-5
Limp Home Mode	13-9
Locks and Keys	7-1
Logic Requirement for VMS in Infotainment	8-42
Low Engine Oil Pressure Warning Lamp	8-38
Low Fuel Warning Lamp	8-39
Low Speed Wiping	8-21
Lubricants and Capacities	2-5

M

Magic Lamps	8-12
Maintenance - Outside the Vehicle	14-16
Maintenance Interval	14-3
Maintenance Schedule Chart	14-26
Maintenance-Inside the Vehicle	14-15
Malfunction (OBD) Lamp	8-37
Manual (Joystick) ORVM Adjustment	8-6
Manual Transmission	11-5
Mechanical Override for Fuel Lid Opening	11-16
Minimum Fuel Requirement	11-15
Mobile Holder	8-25
Mute/Un-mute Function	7-8

N

Need Assistance?	14-2
------------------------	------

O

Odometer	8-31
----------------	------

Alphabetical Index

Off Road Driving Precautions.....	11-8
Oils, Fluids and Flushing	14-3
Opening the Hood	14-4
Operation of Tiretronics.....	12-9
Outside Rear View Mirror (ORVM)	8-5

P

Paint Chips	14-20
Parking Brake.....	9-5
Parking Brake/Low Brake Fluid/EBD Warning Lamp.....	8-37
Parking Lamps On.....	8-9
Parking on a Hill/Incline.....	9-5
Pay Attention.....	8-57
Plastic (Non-painted) Exterior Parts.....	14-20
Power Outlet.....	8-18
Power Window Lock Switch.....	8-2
Power Windows	8-1
Precautions while Handling RKE.....	7-11
Protect your Warranty.....	14-2
Puddle Lamps.....	8-13

R

Radial Ply Tires	12-5
Rapid Cabin Cooling.....	10-11
Rapid Cabin Heating	10-12
Re-circulation Mode (Re-circulated Air Mode).....	10-8
Rear Overview	3-2
Rear Park Assist System	8-58
Rear View Camera.....	8-55
Rear View Camera functions.....	8-57
Rear Windshield-Defog.....	10-13
Rear Wiper.....	8-22
Recommended Gear Shifting Speeds.....	11-6
Remote Keyless Entry (RKE) System.....	7-6
Removing Seat Head Restraint.....	5-4
Restore the Tools, Jack and Flat Tyre Securely.....	2-21
Reverse Parking Assist System (RPAS) — Type 1	8-46

Reverse Parking Assist System (RPAS) — Type 2	8-54
Reverse Parking Assist System Limitations	8-58
Reverse View Camera Systems Limitations.....	8-57
RKE Battery Replacement.....	7-10
RKE Operating Range	7-9

S

Safety Symbols.....	1-2
Safety Tips - Before Starting Your Vehicle	11-1
Scheduled Maintenance	14-25
Search (Panic) Function.....	7-8
Seat Back Pocket	8-25
Seat Belt Warning Lamp.....	8-39
Second Row Bench Seat.....	5-4
Second Row Captain Seat Arrangement.....	5-7
Second Row Courtesy Lamp	8-18
Second Row Floor Vents	10-4
Second Row Seat 60:40.....	5-5
Security Lamp	8-37
Self Removing SRS Related Parts.....	6-9
Sitting in the Correct Position.....	5-1
Smart Power Window Learning Procedure.....	8-4
Smart Power Window with Anti-Pinch.....	8-2
Snow Chains	12-6
Spare Wheel Removal.....	2-16
Speed Rating.....	12-2
Speedometer	8-31
Starting the Engine.....	11-3
Static Bending Lamps	8-12
Steering.....	9-1
Steering Controls - Audio Control System.....	9-3
Stop/Start Lamp.....	8-41
Stopping the Engine.....	11-4
Suggestions for Obtaining Service for your Vehicle.....	14-1
Sun Visor	8-26
System Activation	8-56
System Deactivation	8-57

T

Tachometer	8-30
Technical Specifications.....	2-22
Temperature Control.....	10-7
Theft Alarm.....	7-9
Third Row Front Facing	5-9
Third Row Seats.....	5-9
Third Row Side Facing	5-10
Tilt Steering	9-2
Tip-Tap ORVM Adjustment.....	8-6
Tips for Better Fuel Economy	11-16
Tire Pressure	12-3
Tiretronics	12-8
Tiretronics Lamp	8-41
Tiretronics Learning	12-14
Tiretronics Sensor Installation.....	12-9
Tiretronics Sensor Removal.....	12-10
Tiretronics Warning Lamp	12-9
To Lock and Arm the Vehicle with RKE.....	7-6
To Owner's of a Mahindra Vehicle.....	1-4
Towing.....	13-7
Towing Equipment.....	13-7
Towing your Vehicle during Emergency.....	13-8
Tread Wear Indicators (TWI)	12-5
Trip Meter, Set and Mode Button.....	8-32
Turn Lamps	8-38
Turn Signals.....	8-7
Tyre Rating	12-1
Tyre Rotation Recommendations	12-6

U

Underbody.....	14-22
Unlock and Disarm the Vehicle with RKE.....	7-7
Utility Holders	8-24

V

Vehicle Does not Start - Checks	13-2
Vehicle Identification Number (VIN)	2-25
Vehicle Overheating.....	13-3
Vehicle Self Maintenance - General Precautions.....	14-4
Voice Messaging System (VMS).....	8-42

W

Warning Lamps	4-5
Warning Lamps in the Instrument Cluster	8-37
Warning Lamps Overview	4-3, 8-35
Warranty Information	14-2
Washing the Exterior	14-19
Water-in-Fuel Warning Lamp	8-39
Wheel Nut Loosening	2-17
Wheel Tightness	12-7
Windows and Wiper Blades.....	14-20
Windshield Washer Fluid Top-up	14-13
Windshield Wipers.....	8-20
Winter Care	14-23
Wipe/Wash	8-22
Wiper Control Stalk.....	8-20
Wiper Off	8-20
Working Principle	8-54