

Do it yourself !

Maintenance program

As a part of our comprehensive customer education program, we are pleased to offer you as a valuable customer, this exclusive 'Do it yourself' booklet. The main focus of this program is to help you understand what you can do yourself to look after your car better through simple routine checks as well as how to troubleshoot emergency situations, if at all any happen due to minor causes.

It will also help you understand your car and its working in more detail. What's more it ensures you a smooth and trouble free ride, for many years to come.

We also take this opportunity to wish you a safe and enjoyable driving with your Hyundai car.

You can download the accompanying files and print them for use.

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ROUTINE CHECK-UPS

INSTRUMENT CLUSTER – GAUGES (SANTRO & ACCENT)

Description	Function	Remarks
Eng. Coolant Temp. Gauge	Indicates Engine Coolant Temperature	Stop the engine for check-up, if the needle goes out of normal range and moves across to the 'H' mark
Fuel Gauge	Indicates approx. qty. of fuel level in the Fuel Tank	Refill the tank as soon as the needle reaches 'E' mark.
Speedometer	Indicates vehicle's running speed in Km/hr	Drive at (50-60 Km/hr) for better mileage and safety
Odometer	Records cumulative distance travelled in Kms	Useful for keeping records for maintenance
Trip Odometer	Trip odometer records trip distances more accurately	Push reset knob to set the counter to zero
Tachometer (only Accent)	Indicates engine's number of revolution per minute(rmp)	It is useful to help you shift gaers at appropriate engine speed to avoid lugging or revving

ENGINE STARTING WARNING LIGHTS (SANTRO & ACCENT)

Description	Warning Lamp Status		If Warning Lamp goes 'On' while engine is running, check the following
	Ignition ON	Engine starts	
Malfunctioning Indicator lamp	ON	OFF	EMS Malfunctioning
Charging System Warning Light	ON	OFF	Alternator not charging
Parking brake/ B. Fluid Warning light	ON	OFF	Parking brake not released fully/ Less brake fluid
Oil Pressure Warning Light	ON	OFF	Inadequate oil pressure in the engine lubricating system
Stop Warning (Diesel Accent)	ON	OFF	Engine overheated needs check up

GENERAL WARNING LIGHTS (SANTRO & ACCENT)

Description	Remarks
Door Ajar Warning Light (only Accent)	Doors not fully closed
High beam indicator	Headlamp beam at high position
Fuel Filter warning (Diesel Accent)	Too much water in the Fuel Filter
Brake Vacuum Warning (Diesel Accent)	Brake vacuum low which results in poor braking
Diesel Preheat Indicator	Light cuts off after preheating is completed Start the engine after light is off
Low Fuel warning Light	Less fuel in the tank

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ENGINE OIL LEVEL

- Park the vehicle on the ground.
- Warm up the engine and turn it off.
- Wait for a minute, then remove dipstick.
- Wipe oil from the dipstick with a clean cloth.
- Re-insert the dipstick fully.
- Remove the dipstick again to check oil level.
- Oil level should be between 'F' and 'L' mark.
- If oil level is found below or at 'L' (low) mark, open Oil Filter cap and add oil till it reaches 'F' mark.
- Reconfirm the oil level once again.

CARE

Use Hyundai Genuine Engine Oil (SG grade 20 W50)

ENGINE COOLANT LEVEL

ENGINE COOLANT RESERVOIR

- Park the car on a level ground.
- Check for coolant level in the reservoir bottle
- The level should be between 'F' and 'L' mark.
- If found below or at 'L' (low) mark, open the Reservoir cap and add plain water.

RADIATOR

- Let the engine cool down if it is hot.
- Remove the Radiator cap by pressing it and turning clockwise.
- Check the level in the Radiator.
- The level should be upto the brim.
- If less, add water to bring it upto the brim level.
- Replace the Radiator cap.

(Radiator Coolant concentration: Water 65% & Antifreeze 35%)

CAUTION

Never open the radiator cap when engine is hot. If level drops frequently, contact Hyundai Service Centre.

ENGINE COOLANT HOSES

- Check for any leakages from Coolant Hose/Hose joints.
- Check Hose Clamps for looseness.
- Check Hoses for cracks, fouling etc.
- If any of the Hoses is cracked or damaged, get it replaced immediately.

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BRAKE OIL LEVEL

- Park the vehicle on the level ground.
- Check the Brake Fluid Level in the Reservoir Bottle.
- Level should be between Min and Max mark.
- If found low, top up to the Max-mark.
- Use Hyundai genuine Brake Oil.

TO ADD OIL

Wipe off any dirt on Reservoir cap.

Unscrew cap and pour Brake Oil in reservoir till Max mark.

Secure the Reservoir Cap tightly to avoid moisture absorption.

CAUTION

- Mixing of any oil other than DOT-3, can seriously effect Brake performance.
- In case of substantial loss of Brake Oil, consult Hyundai Service Centre.

POWER STEERING FLUID LEVEL & HOSES

- Park the vehicle on a level ground.
- Switch off the engine and check the oil level.
- It should be between Max and Min mark.
- If less, add ATF Dexron-II or PSF-3 fluid.
- Check Power Steering Hose Connections for leakages.
- Check Power Steering Hoses for cracks/damages.

CLUTCH OIL LEVEL (ACCENT)

- Check the oil level in the Clutch Fluid Reservoir.
- The level should be between Max and min mark.
- If less, add Hyundai Genuine Brake Oil(DOT-3).
- Check clutch fluid hose connections for leakage.

CAUTION

If there is any fluid loss in any of the above systems consult Hyundai service Centre.

WINDSHIELD WASHER FLUID LEVEL

- Check the Windshield Washer Fluid level in the Reservoir.
- The level of the fluid should be upto the brim.
- If level found low, top up with clean Tap Water.

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WINDSHIELD WIPERS

- For proper wiping & chatter free operation remove dirt from Wiper Blades using wet cloth.
- Clean Windshield Glass once in a week with mild detergent to eliminate oil like film.
- Check the edges of Wiper Blades for any crack or distortion.
- Wiper Blade attack angle on the Windshield should be 90 degrees.
- The angle can be adjusted by twisting the Wiper Arm.

CARE

- Never add coolant in windshield washer reservoir.
- Don't operate the wiper on dry/dirty Windshield Glass, as abrasive dust particles can cause permanent scratches.

CLUTCH PEDAL FREE PLAY

- Turn off the engine.
- Press the Clutch pedal with your finger until you feel a change in the resistance, this free movement is the free play.
- Free play should be 6-13mm.
- If found more/less, get it adjusted at Hyundai Service Centre.

BRAKE PEDAL FREE PLAY

- Turn off the engine and press the Brake Pedal several time to reduce the vacuum in the brake booster.
- Press the Brake Pedal with your finger until you feel a change in resistance, this free movement is the free play.
- Free play should be 3-8mm.
- If found more/less, get it inspected at Hyundai Service Centre.

CAUTION

Lesser Clutch Play can cause damage to the Clutch parts.

BATTERY

- Check battery Terminals for any oxidation/deposits.
- If deposits are found, wash the terminals with warm water.
- Apply Petroleum jelly on the terminals to avoid oxidation.
- Battery terminal should be tight. If loose, tighten with the spanner.
- Check battery clamp for tightness.
- Check electrolyte level once in 6 months by opening the battery plugs, (Use a coin to open flush plugs.)
- The level should be 10mm above the plates level.
- If found less, add distilled water.

CARE

- If the car is not in use for long time, disconnect –ve terminal.
- Do not use ordinary water for topping up.

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AIR CONDITIONER

Check following switches and controls for proper functioning of the AC.

AC/ Blower Switch

- Check AC switch in on/off position and operate the blower at all speeds.

Air Intake Control

- Check the air intake control in fresh and re-circulation mode by moving the knob.

Air Flow Control

Check flow of air towards:

- Face-level, Floor-face level.
- Floor-Defrost level and Defrost level.

Temperature Control

- Check Heating System operation at 'Hot', 'Cold' and intermediate position with blower on.

CARE

Operate Air Con for at least 10 min during the winter season every week to lubricate its components.

TYRE CARE

- Check Tyre pressure at least once a week.
- Always maintain a tyre pressure of 30 PSI in all tyres.
- High tyre pressure adversely affects tyre life, suspension, comfort and safety of the vehicle.
- Low tyre pressure adversely affects tyre life, fuel efficiency, steering effort and steering stability.
- Check tyres periodically for abnormal wear, damage and cuts.

CARE

Make sure that Tyre Pressure gauge used to measure pressure is in good condition.

APPEARANCE CARE

Interior

- Remove footmats and blow air to remove dust from inside the passenger.
- If needed, remove dirt from the Trims and the Painted surfaces using a soft wet cloth.
- If carpet becomes wet, do not let it be there for long as it will create a musty smell and corrode the floor.

Exterior

- Wet the painted bodywork to soften the dirt film, treesap, birddrop etc. before attempting to remove them.
- After removing dirt film and the deposits with soft cloth; the body should be thoroughly rinsed and then dried with good quality chamois leather or clean soft cloth.
- Never use household detergent, solvent or abrasive cleaning material as these will damage the painted surface and spoil the shine and appearance of the paint.
- Periodically apply good quality polish on the painted surface to maintain the shine and provide protection to paint.
- Never rub cloth on the dry painted surface to clean the dirt. Dust is highly abrasive and will leave scratches on the painted surface.
- Do not spray water in the engine compartment particularly over electrical component/ wiring Harness.

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CHECKING BELT TENSIONS

- Keep the Engine in the switched off condition.
- To check the belt tension press the respective belt with thumb pressure in the middle.
- The deflection for the respective belt should be as under:

Description	Deflection Value
Alternator/ water Pump Drive belt	9 -10 mm
Air Con Drive Belt	8 – 9 mm
Power Steering Pump Drive Belt	7 – 10 mm

EMERGENCY HANDLING

DOORS LOCKED WITH KEY INSIDE (SANTRO)

- Insert 12" measuring scale or any other similar strip between the Front Window Glass and the Rubber Beading at the location shown in any of the front doors.
- Inset the scale approx. till 10.5 inches, slowly and straight, till it rests on a lever (Not visible from outside).
- Push the scale further till the lock is opened.
- Take out the scale carefully to avoid it falling inside.

CHECKING AND REPLACING FUSES

- There are Two Fuse Boxes in the vehicle
 - Engine compartment Fuse Box (ECFB)
 - Passenger Compartment fuse Box (PCFB)
- Fuses tend to blow off whenever an electrical circuit is overloaded.
- Blown fuse should be replaced with the one with equivalent rating.
- Fuse rating grid is given on the fuse box cover.
- Use 'Fuse Removal tool' provided in the P.C. fuse Box to remove fuse.

CAUTION

- Use of higher rating fuses can be a potential fire hazard.
- If the fuse blows off repeatedly, consult the Hyundai service Center immediately.

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ENGINE NOT STARTING

Warning lamps not glowing with Ignition 'ON' condition

- Check for blown IGN Fuse in Engine Compartment Fuse Box.
- Replace if found blown off.

Engine fails to crank

- Check if battery terminals / connections are clean and tight.
- Check the horn. if it sounds low, it indicates a discharged battery.
- Try to push start the car in the 2nd Gear.

Engine Cranks but does not start

- Check availability of fuel in the Fuel Tank.
- Check for ECU fuse in the Engine Compartment Fuse Box. Replace if found blown off.
- Check all connectors at coil, spark plug and other locations in the engine compartment for looseness. Press connectors and reconnect if required.
- In case the engine still does not start contact the Hyundai service Centre.

ENGINE OVERHEATING

Due to Coolant leakage

- Check the coolant level in the Radiator and the Reservoir Bottle.
- If found low, top up with clean water and then start the engine.
- Check carefully for any continuous coolant leakage from radiator, Hoses, joints etc. repair the leak if possible.

CAUTION

Do not open Radiator cap when engine is hot, as steam and boiling water may eject suddenly, resulting in burns.

Due to Radiator Fan not working

- Check if Radiator Fan is working when engine is hot and ignition switch is in 'ON' position.
- Switch off the engine and check Radiator Fan Fusible link.
- Replace the fuse if found blown off.
- If the fan still does not work, interchange the Radiator Fan Relay with AC Relay to confirm proper function of Relay.

Due to Loose or Broken Water Pump Belt

- Check tension of the Water Pump Belt.
- If found loose or broken, get it adjusted or replaced.

NOTE

Contact Hyundai Road Service Centre if you cannot fix the overheating problem.

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HEADLAMP NOT GLOWING

- Check for loose Headlamp connectors.
- Check for Headlamp related fuses in following order :

Model	Location	Fuse Rating
Santro	Passenger Compartment Fuse Box	4) 10 A H/LP (LH) 5) 10 A H/LP (RH)
Accent	Engine Compartment Fuse Box	10A H/LP (LH) 10A H/LP (RH) 30A LAMP
	Passenger Compartment Fuse Box	10 A Relay

- Remove Head Lamp Bulb for inspection as follows :
 - Disconnect Headlamp connector by pulling out gently.
 - Remove the dust cover.
 - Dismantle the bulb securing lock by pressing with finger.
 - Inspect the bulb and replace if found fused.
 - Refit the lock, Connector and Dust cover.

CARE

While refitting the connector align the bulb pins with the connector properly.

CHANGING A FLAT TYRE

- Take out tyre, jack rod and Jack from the underside of the boot luggage mat.
- Put stoppers on the diagonally opposite wheel to the punctured tyre to avoid rolling of vehicle. Apply Hand brake and engage reverse gear.
- Loosen the wheel nuts with wheel spanner before raising the wheel.
- Raise the car on the jack and remove the wheel nuts and the wheel.
- Re-install the inflated spare wheel and tighten the nuts first with the hand and then with wheel spanner.
- Lower the vehicle and tighten all the nuts with wheel spanner by full force of hand.

(Tightening torque of wheel nuts 900 – 1100 Kg cm)

Jack should rest on solid/hard surface, otherwise it may slip/sink.

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AIRCON NOT COOLING

- Check if AC switch is pressed inside in the 'ON' mode.
- Check blower switch is turned 'ON' to speed 1 or 2 or 3.
- Make sure that the Heater is completely switched off.
- Check AC compressor belt for leakage/ tightness.
- Check AC fuse (10A) in the Engine Compartment Fuse Box and replace if blown off.
- Check if there is engine overheating causing the compressor to 'Cut Off'. (refer Engine overheating for further details).

DEFOGGING OF WINDSHEILD

To remove interior fog

- Set air intake control to the fresh position.
- Set the airflow control to defrost position.
- Switch the air conditioner on.
- Set the temperature control to comfortable temperature position.

To remove exterior fog

- Set air intake control to the fresh position.
- Set the airflow control to defrost position.
- Set the temperature control to warm.
- Set the fan speed control to "3" or "4" position.