

Component Procedures: Engine Oil

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Component Procedures: Engine Oil

Parts and Labor (itype_189)

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Filters > Oil Filter, R&R	B	0.4	0.0
Remove & Replace	Filters > Oil Filter, R&R > NOTE > To Change ?		0.1	

Specifications Quick Reference (itype_439)

Quick Specifications

- item

Engine Oil - Repair Procedures (Article 45383)

- Oil and Filter Replacement

Prolonged and repeated contact with mineral oil will result in the removal of natural fats from the skin, leading to dryness, irritation and dermatitis. In addition, used engine oil contains potentially harmful contaminants which may cause skin cancer. Exercise caution in order to minimize the length and frequency of contact of your skin to used oil. Wear protective clothing and gloves. Wash your skin thoroughly with soap and water, or use water-less hand cleaner, to remove any used engine oil. Do not use gasoline, thinners, or solvents. In order to preserve the environment, used oil and used oil filter must be disposed of only at designated disposal sites.



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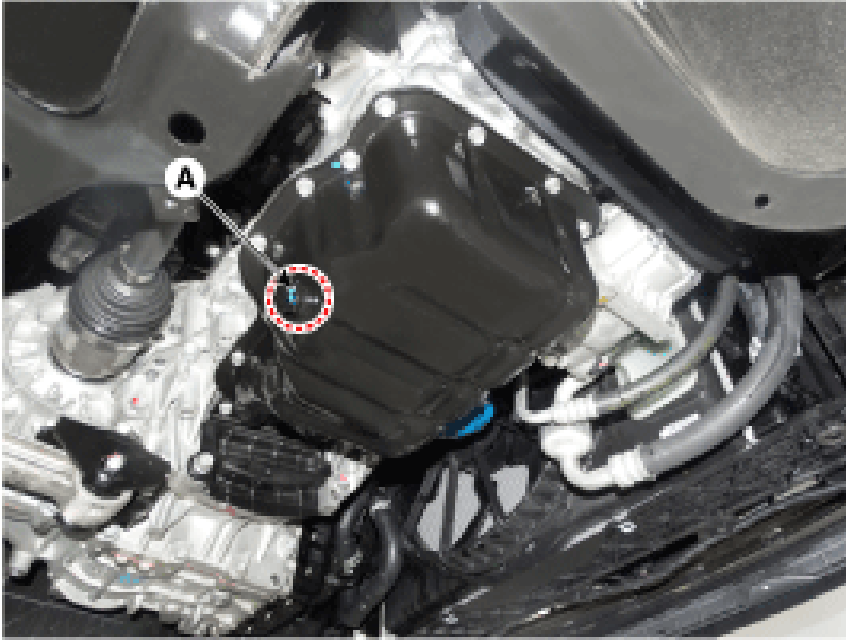
- In order to preserve the environment, used oil and used oil filter must be disposed of only at designated disposal sites.

- Park the car on level ground.

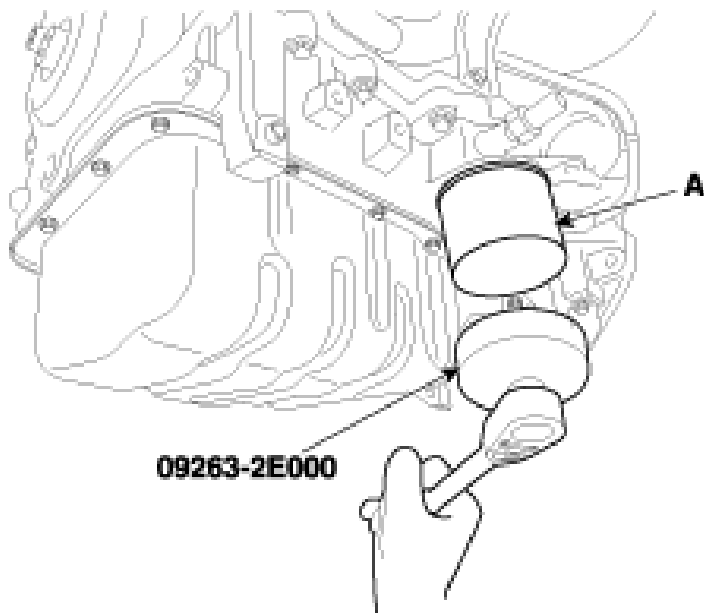
- Drain engine oil. Remove the oil filler cap. After lifting the car, remove the oil drain plug (A) and drain oil into a container.

- Remove the oil filler cap.

- After lifting the car, remove the oil drain plug (A) and drain oil into a container.



- Replace the oil filter (A). Using the SST (09263-2E000), remove the oil filter. Check and clean the oil filter installation surface. Check the part number of the new oil filter is as same as old one. Apply clean engine oil to the gasket of a new oil filter. Lightly screw the oil filter into place, and tighten it until the gasket contacts the seat. Tighten it with the torque below. Tightening torque : 11.8 - 15.7 N.m (1.2 - 1.6 kgf.m, 8.7 - 11.6 lb-ft)
- Using the SST (09263-2E000), remove the oil filter.
- Check and clean the oil filter installation surface.
- Check the part number of the new oil filter is as same as old one.
- Apply clean engine oil to the gasket of a new oil filter.
- Lightly screw the oil filter into place, and tighten it until the gasket contacts the seat.
- Tighten it with the torque below. Tightening torque : 11.8 - 15.7 N.m (1.2 - 1.6 kgf.m, 8.7 - 11.6 lb-ft)

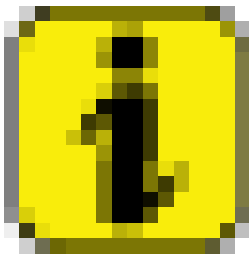


- Install the oil drain plug with a new gasket. Tightening torque : 34.3 - 44.1 N.m (3.5 - 4.5 kgf.m, 25.3 - 32.5 lb-ft)
- Fill with new engine oil, after removing the engine oil level gauge . Capacity Total : 4.5 L (1.19 U.S.gal., 4.76 U.S.qt., 3.96 Imp.qt.) Oil pan : 3.7 L (0.98 U.S.gal., 3.91 U.S.qt., 3.26 Imp.qt.) Drain and refill including oil filter : 4.0 L (1.06 U.S.gal., 4.23 U.S.qt., 3.52 Imp.qt.)
- Install the oil filler cap.
- Start engine and check for oil leaks and check the oil gauge or light for an indication of oil pressure.

- Recheck the engine oil level.
 - Inspection
 - Check the engine oil quality. Check the oil deterioration, entry of water, discoloring or thinning. If the quality is visibly poor, replace the oil.
 - Check the engine oil level. After engine warm up stop the engine wait 5 minutes then check the oil level. Oil level should be between the "L" and "F" marks on the dipstick . If low check for leakage and add oil up to the "F" mark. Do not fill with engine oil above the "F" mark.
- Do not fill with engine oil above the "F" mark.

NOTICE

- Do not fill with engine oil above the "F" mark.
- Selection of Engine Oil
 API SL, ILSAC GF-3, ACEA A3 Class engine oil can be used if the recommended engine oil is not available.



Information

- API SL, ILSAC GF-3, ACEA A3 Class engine oil can be used if the recommended engine oil is not available.

TEMPERATURE RANGE OF SAE VISCOSITY NUMBERS											
Temperature	°C	-30	-20	-10	0	10	20	30	40	50	
	°F	-10	0	20	40	60	80	100	120		
Allowed SAE Viscosity Grade						10W-30					
					5W-20, 5W-30						

For best performance and maximum protection of all types of operation, select only those lubricants which:
 Satisfy the requirement of the ILSAC (API) or ACEA classification. Have proper SAE grade number for expected ambient temperature range. Lubricants that do not have both an SAE grade number and ILSAC (API) or ACEA service classification on the container should not be used.

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All Technical Service Bulletins (itype_100)

Tsbs

- ENGINE OIL AND FILTER CHANGE SERVICE GUIDELINES (23-EM-005H, 2023/10/12)

OEM Policies and Procedures (itype_120)

Tsbs

- ENGINE OIL AND FILTER CHANGE SERVICE GUIDELINES (23-EM-005H, 2023/10/12)