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Maintenance schedule

The scheduled maintenance items required to be serviced at regular intervals are shown in the "Warranty and Maintenance Booklet".

For details of your maintenance schedule, read the separate "Warranty and Maintenance Booklet".

Maintenance precautions

When maintenance and service are required, it is recommended that all work be done by an authorized SUBARU dealer.

If you perform maintenance and service by yourself, you should familiarize yourself with the information provided in this section on general maintenance and service for your SUBARU.

Incorrect or incomplete service could cause improper or unsafe vehicle operation. Any problems caused by improper maintenance and service performed by you are not eligible for warranty coverage.



- Testing of an All-Wheel Drive vehicle must NEVER be performed on a single two-wheel dynamometer or similar apparatus. Attempting to do so will result in transmission damage and in uncontrolled vehicle movement and may cause an accident or injuries to persons nearby.
- Always select a safe area when performing maintenance on your vehicle.
- Always be very careful to avoid injury when working on the vehicle. Remember that some of the materials in the vehicle may be hazardous if improperly used or handled, for example, battery acid.
- Your vehicle should only be serviced by persons fully competent to do so. Serious personal injury may result to persons not experienced in servicing vehicles.

- Always use the proper tools and make certain that they are well maintained.
- Never get under the vehicle supported only by a jack. Always use a safety stands to support the vehicle.
- Never keep the engine running in a poorly ventilated area, such as a garage or other closed areas.
- Do not smoke or allow open flames around the fuel or battery. This will cause a fire.
- Because the fuel system is under pressure, replacement of the fuel filter should be performed only by your SUBARU dealer.
- Wear adequate eye protection to guard against getting oil or fluids in your eyes. If something does get in your eyes, thoroughly wash it out with clean water.
- Do not tamper with the wiring of the SRS airbag system or seatbelt pretensioner system, or attempt to take its connectors apart, as that may activate the system or it can render it inoperative. The wiring and connectors of these systems are yellow for easy identification. NEVER use a circuit tester for these wiring. If your SRS airbag or seatbelt pretensioner needs service, consult your nearest SUBARU dealer.

■ Before checking or servicing in the engine compartment

- Always stop the engine and set the parking brake firmly to prevent the vehicle from moving.
- Always let the engine cool down. Engine parts become very hot when the engine is running and remain hot for some time after the engine is stopped.
- Do not spill engine oil, engine coolant, brake fluid or any other fluid on hot engine components. This may cause a fire.
- Always remove the key from the ignition switch. When the ignition switch is in the "ON" position, the cooling fan may operate suddenly even when the engine is stopped.

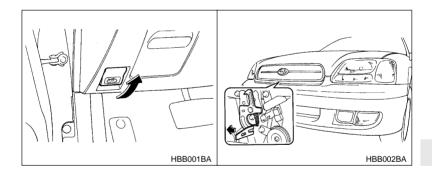
■ When you do checking or servicing in the engine compartment while the engine is running

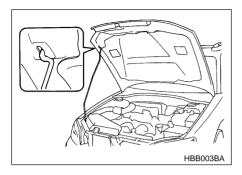
A running engine can be dangerous. Keep your fingers, hands, clothing, hair and tools away from the cooling fan, belts and any other moving engine parts. Removing rings, watches and ties is advisable.

Engine hood

MARNING

Always check that the hood is properly locked before you start driving. If it is not, it might fly open while the vehicle is moving and block your view, which may cause an accident and serious bodily injury.





To open the hood:

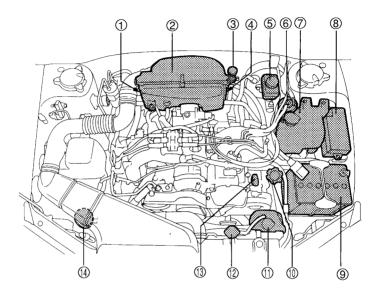
- 1. Pull the hood release knob under the instrument panel.
- 2. Release the secondary hood release located under the front grille by moving the lever toward the left. Lift up the hood, release the hood prop from its retainer and put the end of the hood prop into the slot in the hood.

To close the hood:

- 1. Lift the hood slightly and remove the hood prop from the slot in the hood and return the prop to its retainer.
- 2. Lower the hood until it approaches about 6 in. (15 cm) from the closed position and let it drop.
- 3. After closing the hood, be sure the hood is securely locked.

If this does not close the hood, release it from a slightly higher position. Do not push the hood forcibly to close it. It could deform the metal.

Engine compartment overview



HBB036BB

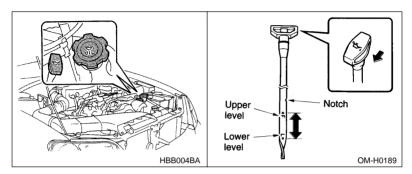
- ① Manual transmission oil level gauge (MT) (page 11-20) or Differential gear oil level gauge (AT) (page 11-23)
- 2 Air cleaner element (page 11-17)
- 3 Clutch fluid reservoir (page 11-29)
- 4 Automatic transmission fluid level gauge (page 11-21)
- ⑤ Brake fluid reservoir (page 11-27)
- 6 Fuel filter

- Windshield washer tank (page 11-39)
- 8 Fuse box (page 11-43)
- 9 Battery (page 11-42)
- ① Engine oil filler cap (page 11-8)
- ① Engine coolant reservoir (page 11-14)
- 12 Radiator cap (page 11-14)
- ③ Engine oil level gauge (page 11-8)
- Power steering fluid reservoir (page 11-26)

Engine oil

▼ Checking the oil level

Check the engine oil level at each fuel stop.



- 1. Park the vehicle on a level surface and stop the engine.
- 2. Pull out the dipstick, wipe it clean, and insert it again.
- 3. Be sure the dipstick is correctly inserted until it stops with the graphic symbol on its top appearing as shown in the illustration.
- 4. Pull out the dipstick again and check the oil level on it. If it is below the lower level, add oil to bring the level up to the upper level.



Use only engine oil with the recommended grade and viscosity.

If you check the oil level just after stopping the engine, wait a few minutes for the oil to drain back into the oil pan before checking the level. Just after driving or while the engine is warm, the engine oil level reading may be in a range between the upper level and the notch mark. This is caused by thermal expansion of the engine oil.

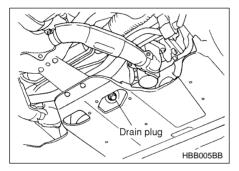
To prevent overfilling the engine oil, do not add any additional oil above the upper level when the engine is cold.

▼ Changing the oil and oil filter

Change the oil and oil filter according to the maintenance schedule in the "Warranty and Maintenance Booklet".

The engine oil and oil filter must be changed more frequently than listed in the maintenance schedule when driving on dusty roads, when short trips are frequently made, or when driving in extremely cold whether

- 1. Warm up the engine by letting the engine idle for about 10 minutes to ease draining the engine oil.
- 2. Park the vehicle on a level surface and stop the engine.
- 3. Remove the oil filler cap.

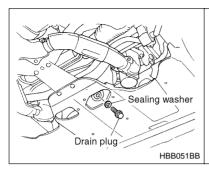


4. Drain out the engine oil by removing the drain plug while the engine is still warm. The used oil should be drained into an appropriate container and disposed of properly.

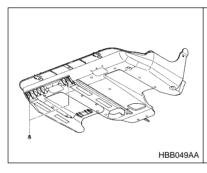
⚠ WARNING

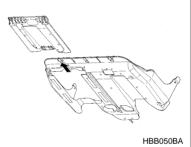
Be careful not to burn yourself with hot engine oil.

5. Wipe the seating surface of the drain plug with a clean cloth and tighten it securely with a new sealing washer after the oil has completely drained out.









- 6. Remove two clips at the front of the cover under the oil filter.
- 7. Slide the cover toward the vehicle front to remove it.
- 8. Remove the oil filter with an oil filter wrench.
- 9. Before installing a new oil filter, apply a thin coat of engine oil to the seal.
- 10. Clean the rubber seal seating area of the lower crank case and install the oil filter by hand turning. Be careful not to twist or damage the seal.
- 11. Tighten it approximately two-thirds of a turn after the seal makes contact with the lower crank case.



Never over tighten the oil filter because that can result in an oil leak.

- 12. Reinstall the cover under the oil filter.
- 13. Pour the specified amount of engine oil through the filler neck.

Oil capacity: 4.2 US qt (4.0 liters, 3.5 lmp qt)

- 14. Start the engine and make sure that no oil leaks appear around the filter's rubber seal.
- 15. Run the engine until it reaches the normal operating temperature. Then stop the engine and wait a few minutes to allow the oil drain back. Check the oil level again and if necessary, add more engine oil.

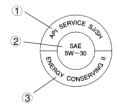
▼ Recommended grade and viscosity



Use only engine oil with the recommended grade and viscosity.

Oil grade: API classification SJ or SH with the words "ENERGY CONSERVING II" (if you cannot obtain the oil with SJ or SH grade, you may use SG grade oil.) or the new API certification mark (Starburst mark) displayed on the container.

API Service label



New API Certification Mark (Starburst Mark)

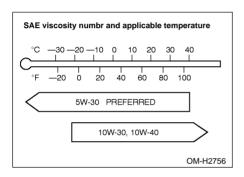


- 1 Indicates the oil quality by API designations
- 2 Indicates the SAE oil viscosity grade
- 3 Indicates that the oil has fuel saving capabilities

In choosing an oil, you want the proper quality and viscosity, as well as one that will add to fuel economy. The following table lists the recommended viscosities and applicable temperatures.

When adding oil, different brands may be used together as long as they are the same API classification and SAE viscosity as those recommended by SUBARU.

Engine oil viscosity (thickness) affects fuel economy. Oils of lower viscosity provide better fuel economy. However, in hot weather, oil of higher viscosity is required to properly lubricate the engine.



▼ Recommended grade and viscosity under severe driving conditions

If the vehicle is used in desert areas, in areas with very high temperatures, or used for heavy-duty applications such as a towing a trailer, use of oil with the following grade and viscosities is recommended.

API classification SJ or SH: SAE viscosity No.: 30, 40, 10W-50, 20W-40, 20W-50

Cooling system



/!\ WARNING

Never attempt to remove the radiator cap until the engine has been shut off and has cooled down completely. Since the coolant is under pressure, you may suffer serious burns from a spray of boiling hot coolant when the cap is removed.



♠ CAUTION

- The cooling system has been filled at the factory with a high quality, corrosion-inhibiting, year-around coolant which provides protection against freezing down to -33°F (-36°C). For adding, use genuine SUBARU coolant or an equivalent: a mixture of 50% soft water and 50% ethylene-glycol basis coolant. Use of improper coolants may result in corrosion in the cooling system. It is important to maintain protection against freezing and corrosion, even if freezing temperatures are not expected. Never mix different kinds of coolant.
- Do not splash the engine coolant over painted parts. The alcohol contained in the engine coolant may damage the paint surface.

▼ Hose and connections

Your vehicle employs an electric cooling fan which is thermostatically controlled to operate when the engine coolant reaches a specific temperature.

If the radiator cooling fan does not operate even when the engine coolant temperature gauge exceeds the normal operating range, the cooling fan circuit may be defective. Check the fuse and replace it if necessary. If the fuse is not blown, have the cooling system checked by your SUBARU dealer.

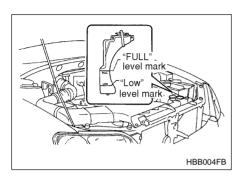
If frequent addition of coolant is necessary, there may be a leak in the engine cooling system. It is recommended that the cooling system and connections be checked for leaks, damage, or looseness.

- CONTINUED -

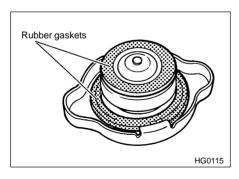
■ Engine coolant

▼ Checking the coolant level

Check the coolant level at each fuel stop.



- 1. Check the coolant level on the outside of the reservoir while the engine is cool.
- 2. If the level is close to or lower than the "LOW" level mark, add coolant up to the "FULL" level mark. If the reserve tank is empty, remove the radiator cap and refill as required.



3. After refilling the reserve tank and the radiator, reinstall the caps and check that the rubber gaskets inside the radiator cap are in the proper position.

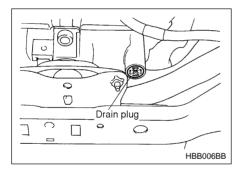
▼ Changing the coolant



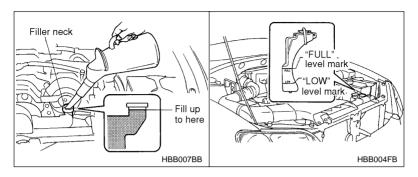
Never attempt to remove the radiator cap until the engine has been shut off and has cooled down completely. Since the coolant is under pressure, you may suffer serious burns from a spray of boiling hot coolant when the cap is removed.

Change the engine coolant using the following procedures according to the maintenance schedule in the "Warranty and Maintenance Booklet"

- 1. Remove the under cover.
- 2. Place a proper container under the drain plug and loosen the drain plug.



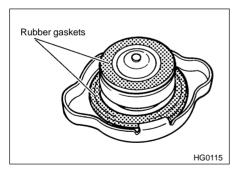
3. Loosen the radiator cap to drain the coolant from the radiator. Then drain the coolant from the reserve tank. Tighten the drain plug securely.



4. Slowly pour the coolant and fill to the radiator filler neck and to the reserve tank's "FULL" level mark. Do not pour the coolant too quickly, as this may lead to insufficient air bleeding and trapped air in the system.

Coolant capacity: MT. 7.2 US qt (6.8 liters, 6.0 lmp qt)

AT. 7.1 US qt (6.7 liters, 5.9 lmp qt)



- 5. Put the radiator cap back on and tighten firmly. At this time, make sure that the rubber gasket in the radiator cap is correctly in place.
- 6. Start and run the engine for more than five minutes at 2,000 to $3,000 \ \text{rpm}$.
- 7. Stop the engine and wait until the coolant cools down (122 to $140^{\circ}F$ [50 to $60^{\circ}C$]). If there is any loss of coolant, add coolant to the

radiator's filler neck and to the reserve tank's "FULL" level.

8. Put the radiator cap and reservoir cap back on and tighten firmly.

Air cleaner element



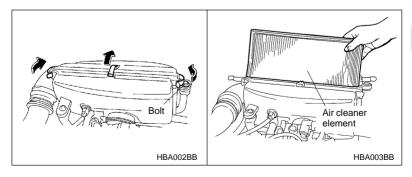
Do not operate the engine with the air cleaner element removed. The air cleaner element not only filters intake air but also stops flames if the engine backfires. If the air cleaner element is not installed when the engine backfires, you could be burned.

The air cleaner element functions as a filter screen. When the element is perforated or removed, engine wear will be excessive and engine life shortened

The air cleaner element is a viscous type. It is unnecessary to clean or wash the element

Replacing the air cleaner element

Replace the air cleaner element according to the maintenance schedule in the "Warranty and Maintenance Booklet". Under extremely dusty conditions, replace it more frequently. It is recommended that you always use genuine SUBARU parts.



1. Remove the bolt securing the rear air cleaner element case.

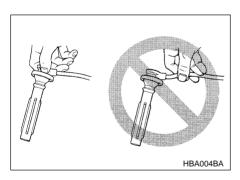
- CONTINUED -

- 2. Unsnap the three clamps holding the rear air cleaner element case.
- 3. Separate the rear air cleaner element case from the front air cleaner element case and remove the air cleaner element.
- 4. Clean the inside of the front and rear air cleaner element cases with a damp cloth and install a new air cleaner element.
- 5. Insert the four projections on the rear air cleaner element case into the slits on the front air cleaner element case and snap the three clamps on the rear air cleaner element case and then tighten the bolt.

Spark plugs



- When disconnecting the spark plug cables, always grasp the spark plug cap, not the cables.
- Make sure the cables are replaced in the correct order.



It may be difficult to replace the spark plugs. It is recommended that you have the spark plugs replaced by your SUBARU dealer.

The spark plugs should be replaced according to the maintenance schedule in the "Warranty and Maintenance Booklet".

▼ Recommended spark plugs

RC10YC4 (Champion)

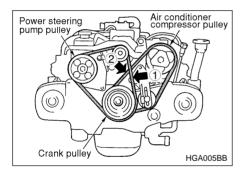
RC8YC4 (Champion)

BKR6E-11 (NGK)

K20PR-U11 (NIPPON DENSO)

Drive belts

The alternator, power steering pump, and air conditioner compressor depend on drive belts. Satisfactory performance requires that belt tension be correct.



in (mm)

| | Deflection | | |
|---|----------------------------|-----------------------------|--|
| | New belt | Used belt | |
| 1 | 0.28 — 0.35 (7.0 — 9.0) | 0.35 — 0.43 (9.0 — 11.0) | |
| 2 | 0.30 — 0.33 (7.5 — 8.5) | 0.35 — 0.40 (9.0 — 10.0) | |

To check belt tension, place a straightedge (ruler) across two adjacent

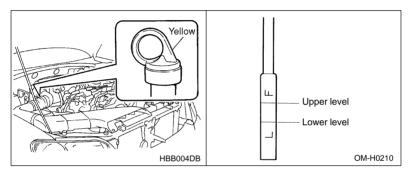
pulleys and apply a force of 22 lb (98 N, 10 kg) midway between the pulleys by using a spring scale. Belt deflection should be the amount specified. If a belt is loose, cracked, or worn, contact your SUBARU dealer.

Manual transmission oil

▼ Checking the oil level

Check the oil level monthly.

1. Park the vehicle on a level surface and stop the engine.

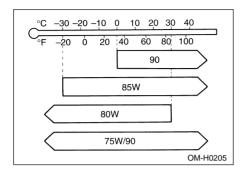


- 2. Pull out the dipstick, wipe it clean, and insert it again.
- 3. Pull out the dipstick again and check the oil level on it. If it is below the lower level, add oil through the dipstick hole to bring the level up to the upper level.

▼ Recommended grade and viscosity

Each oil manufacturer has its own base oils and additives. Never use different brands together.

Oil grade: API classification GL-5



SAE viscosity No. and Applicable Temperature

Automatic transmission fluid

▼ Checking the fluid level

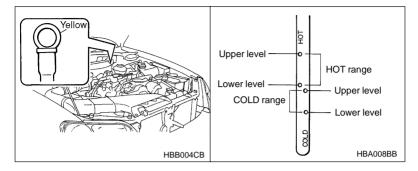
The automatic transmission fluid expands largely as its temperature rises; the fluid level differs according to fluid temperature. Therefore, there are two different scales for checking the level of hot fluid and cold fluid on the dipstick.

Though the fluid level can be checked without warming up the fluid on the "COLD" range, we recommend checking the fluid level when the fluid is at operating temperature.

abla Checking the fluid level when the fluid is hot

Check the fluid level monthly.

- 1. Drive the vehicle several miles to raise the temperature of the transmission fluid up to normal operating temperature; 140 to $176^{\circ}F$ (60 to $80^{\circ}C$) is normal.
- 2. Park the vehicle on a level surface and set the parking brake.
- 3. First shift the selector lever in each position. Then shift it in the "P" position, and run the engine at idling speed.



4. Pull out the dipstick and check the fluid level on the gauge. If it is below the lower level on the "HOT" range, add the recommended automatic transmission fluid up to the upper level.

abla Checking the fluid level when the fluid is cold

When the fluid level has to be checked without time to warm up the automatic transmission, check to see that the fluid level is between the lower level and upper level on the "COLD" range. If it is below that range, add fluid up to the upper level. Be careful not to overfill.

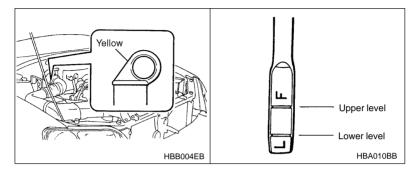
▼ Recommended fluid

"Dexron II" or "Dexron III" Type Automatic Transmission Fluid

Front differential gear oil (AT vehicles)

▼ Checking the oil level

Check the differential oil level monthly.



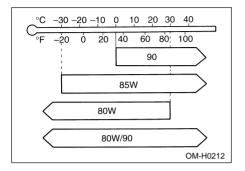
- 1. Park the vehicle on a level surface and stop the engine.
- 2. Pull out the dipstick, wipe it clean, and insert it again.
- 3. Pull out the dipstick again and check the oil level on it. If it is below the lower level, add oil to bring the level up to the upper level.

▼ Recommended grade and viscosity

Each oil manufacturer has its own base oils and additives. Never use different brands together.

Oil grade: API classification GL-5

SAE viscosity No. and Applicable Temperature



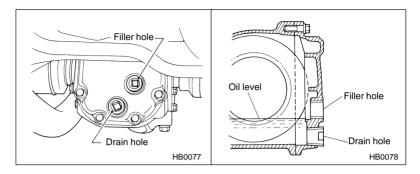
Rear differential gear oil

▼ Checking the gear oil level



If the vehicle requires frequent refilling, there may be an oil leak. If you suspect a problem, have the vehicle checked at your SUBARU dealer.

Your vehicle may be equipped with a rear differential protector. The differential protector provides protection to the rear differential assembly during off-road use. Removal of the rear differential protector is not required when checking the oil level.



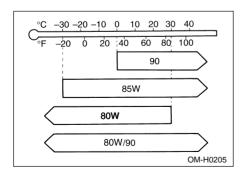
Remove the plug from the filler hole and check the oil level. The oil level should be kept even with the bottom of the filler hole. If the oil level is below the bottom edge of the hole, add oil through the filler hole to raise the level.

▼ Recommended grade and viscosity

Each oil manufacturer has its own base oils and additives. Never use different brands together.

Oil grade: API classification GL-5

SAE viscosity No. and Applicable Temperature



Power steering fluid

Checking the fluid level

⚠ WARNING

Be careful not to burn yourself because the fluid may be hot.

⚠ CAUTION

- When power steering fluid is being added, use only clean fluid, and be careful not to allow any dirt into the tank. And never use different brands together.
- Avoid spilling fluid when adding it in the tank.

The power steering fluid expands greatly as its temperature rises; the fluid level differs according to fluid temperature. Therefore, the reservoir tank has two different checking ranges for hot and cold fluids.

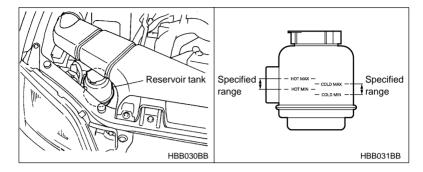
Check the power steering fluid level monthly.

- 1. Park the vehicle on a level surface, and stop the engine.
- 2. Check the fluid level of the reservoir tank.

When the fluid is hot after the vehicle has been run. Check that the oil level is between "HOT MIN" and "HOT MAX" on the surface of the reservoir tank.

When the fluid is cool before the vehicle is run: Check that the oil level is between "COLD MIN" and "COLD MAX" on the surface of the reservoir tank.

3. If the fluid level is lower than the applicable "MIN" line, add the recommended fluid as necessary to bring the level between the "MIN" and "MAX" line.



If the fluid level is extreme low, it may indicate possible leakage. Consult your SUBARU dealer for inspection.

▼ Recommended fluid

"Dexron IIE" or "Dexron III" Type Automatic Transmission Fluid

Brake fluid

▼ Checking the fluid level

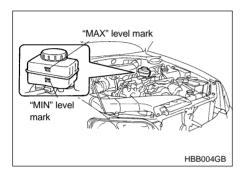
A WARNING

- Never let brake fluid contact your eyes because brake fluid can be harmful to your eyes. If brake fluid gets in your eyes, immediately flush them thoroughly with clean water. For safety, when performing this work, wearing eye protection is advisable.
- Brake fluid absorbs moisture from the air. Any absorbed moisture can cause a dangerous loss of braking performance.
- If the vehicle requires frequent refilling, there may be a leak. If you suspect a problem, have the vehicle checked at your SUBARU dealer.

A CAUTION

- Never use different brands of brake fluid together.
- When adding brake fluid, be careful not to allow any dirt into the reservoir.
- Never splash the brake fluid over painted surfaces or rubber parts. Alcohol contained in the brake fluid may damage them.

Check the fluid level monthly.



Check the fluid level on the outside of the reservoir. If the level is below "MIN", add the recommended brake fluid to "MAX". Use only brake fluid from a sealed container.

▼ Recommended brake fluid

FMVSS No. 116, fresh DOT 3 or 4 brake fluid

Clutch fluid (MT vehicles)

▼ Checking the fluid level

⚠ WARNING

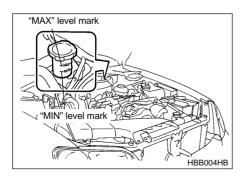
Never let clutch fluid contact your eyes because clutch fluid can be harmful to your eyes. If clutch fluid gets in your eyes, immediately flush them thoroughly with clean water. For safety, when performing this work, wearing eye protection is advisable.

⚠ CAUTION

- Clutch fluid absorbs moisture from the air. Any absorbed moisture can cause improper clutch operation.
- If the vehicle requires frequent refilling, there may be a leak. If you suspect a problem, have the vehicle checked at your SUBARU dealer.
- Never use different brands of clutch fluid together.
- When clutch fluid is added, be careful not to allow any dirt into the tank.

Check the fluid level on the outside of the reservoir. If the level is below "MIN" level mark, add the recommended clutch fluid to "MAX" level mark.

Use only clutch fluid from a sealed container.



▼ Recommended clutch fluid

FMVSS No. 116, fresh DOT 3 or 4 brake fluid

Brake booster

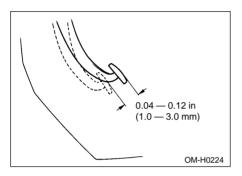
If the brake booster does not operate as described below, have it checked by your SUBARU dealer.

- 1. With the engine off, depress the brake pedal several times, applying the same pedal force each time. The distance the pedal travels should not vary.
- 2. With the brake pedal depressed, start the engine. The pedal should move slightly down to the floor.
- 3. With the brake pedal depressed, stop the engine and keep the pedal depressed for 30 seconds. The pedal height should not change.
- 4. Start the engine again and run for about one minute then turn it off. Depress the brake pedal several times to check the brake booster. Brake booster operates properly if the pedal stroke decreases with each depression.

Brake pedal

Check the brake pedal free play and reserve distance according to the maintenance schedule in the "Warranty and Maintenance Booklet".

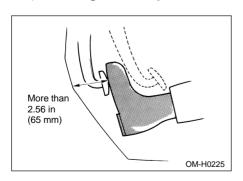
▼ Checking the brake pedal free play



Stop the engine and firmly depress the brake pedal several times. Lightly press the brake pedal down with one finger to check the free play with a force of less than 2 lb (10 N, 1 kg).

If the free play is not within proper specification, contact your SUBARU dealer.

▼ Checking the brake pedal reserve distance



Depress the pedal with a force of approximately 66 lb (294 N, 30 kg)

and measure the distance between the upper surface of the pedal pad and the floor.

When the measurement is smaller than the specification, or when the pedal does not operate smoothly, contact with your SUBARU dealer.

Clutch pedal (Manual transmission vehicles)

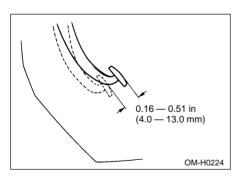
Check the clutch pedal free play and reserve distance according to the maintenance schedule in the "Warranty and Maintenance Booklet".

▼ Checking the clutch function

Check the clutch engagement and disengagement.

- 1. With the engine idling, check that there are no abnormal noises when the clutch pedal is depressed, and that shifting into 1st or reverse feels smooth
- 2. Start the vehicle by releasing the pedal slowly to check that the engine and transmission smoothly couple without any sign of slippage.

▼ Checking the clutch pedal free play



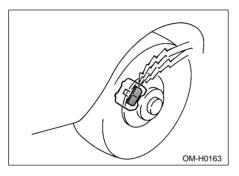
Lightly press the clutch pedal down with your finger until you feel resistance, and check the free play.

If the free play is not within proper specification, contact your SUBARU dealer.

Replacement of brake pad and lining

A CAUTION

If you continue to drive despite the scraping noise from the audible brake pad wear indicator, it will result in the need for costly brake rotor repair or replacement.



The front disc brakes and the right rear disc brake have an audible wear indicators on the brake pads. If the brake pads wear close to their service limit, the wear indicator makes a very audible scraping noise when the brake pedal is applied.

If you hear this scraping noise each time you apply the brake pedal, have the brake pads serviced by your SUBARU dealer as soon as possible.

▼ Breaking-in of new brake pads and linings

When replacing the brake pad or lining, use only genuine SUBARU parts. After replacement, the new parts must be broken in as follows:

abla Brake pad and lining

While maintaining a speed of 30 to 40 mph (50 to 65 km/h), step on the brake pedal lightly. Repeat this five or more times.

∇ Parking brake lining



MARNING

A safe location and situation should be selected for break-in driving.



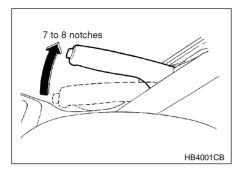
Pulling the parking brake lever too forcefully may cause the rear wheels to lock. To avoid this, be certain to pull the lever up slowly and gently.

- 1. Drive the vehicle at a speed of about 22 mph (35 km/h).
- 2. With the parking brake release button pushed in, pull the parking brake lever SLOWLY and GENTLY. (Pulling with a force of approximately 33 lb [147 N, 15 kg].)
- 3. Drive the vehicle for about 220 yards (200 meters) in this condition.
- 4. Wait 5 to 10 minutes for the parking brake to cool down. Repeat this procedure.
- 5. Check the parking brake stroke. If the parking brake stroke is out of the specified range, adjust it by turning the adjusting nut located on the parking brake lever.

Parking brake stroke: 7 — 8 notches / 44 lb (196 N, 20 kg)

Parking brake stroke

Check the parking brake stroke according to the maintenance schedule in the "Warranty and Maintenance Booklet". When the parking brake is properly adjusted, braking power is fully applied by pulling the lever up seven to eight notches gently but firmly (about 44 lb, 196 N, 20 kg). If the parking brake lever stroke is not within the specified range, have the brake system checked and adjusted at your SUBARU dealer.



Tires and wheels

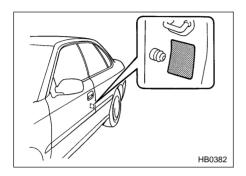


- When replacing a tire, make sure you use only the same size, circumferences, construction, brand, speed symbol and load index as the original tires listed on the tire placard. Using other sizes, circumferences or construction may result in severe mechanical damage to the drivetrain of your vehicle and may affect ride, handling, braking, speedometer/odometer calibration, and clearance between the body and tires. It also may be dangerous and lead to loss of vehicle control.
- Do not use a combination of radial, belted bias or bias tires since it may cause dangerous handling characteristics and lead to an accident.
- Do not let air out of warm tires to adjust pressure. Doing so will result in low tire pressure.

The tires should be checked frequently for proper tire pressure, wear, and cuts.

■ Tire pressure

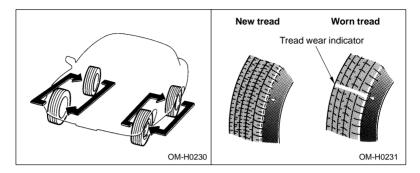
For the best balance between fuel economy, tire life, ride comfort, and handling, tire pressure should be maintained in accordance with specifications. Check the tire pressure when the tires are cold. Cold means that the vehicle has been parked for three hours or has been driven less than 1 mile (1.6 km).



The recommended tire pressure and sizes are provided on the tire placard, which is located under the door latch on the driver's side.

■ Tire rotation

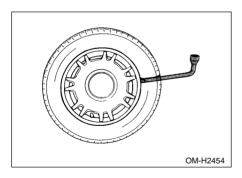
Tire wear will vary with each wheel. To increase the life of tires and keep wear uniform, it is best to rotate them every 7,500 mile (12,500 km). When rotating tires, replace any unevenly worn or damaged tire. After rotating the tires, adjust tire pressure and be sure to check wheel nut tightness.



A tire should be replaced when the tread wear indicator appears as a solid band across the tread. The indicators appear when the remaining tread has been worn to 0.063 in (1.6 mm) or less.

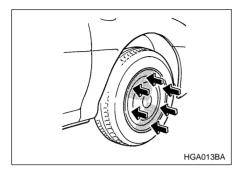
■ Wheel covers

▼ Removing the wheel cover



Insert the wheel nut wrench into the notch provided, and pry the wheel cover off.

▼ Installing the wheel cover



Align the valve with the valve hole in the cover, then fit the cover on the wheel by tapping your hand evenly around the circumference of the cover.

NOTE

When any of the wheels is removed and replaced for tire rotation or to change a flat tire, always check the tightness of the wheel nuts after driving approximately 600 miles (1,000 km). If any nut is loose, tighten it to the specified torque.

Aluminum wheels (If equipped)

Aluminum wheels can be scratched and damaged easily. Handle them carefully to maintain their appearance, performance, and safety.

- When any of the wheels is removed and replaced for tire rotation or to change a flat, always check the tightness of the wheel nuts after driving approximatly 600 miles (1,000 km). If any nut is loose, tighten it to the specified torque.
- Never apply oil to the threaded parts, wheel nuts, or tapered surface of the wheel.
- Never let the wheel rub against sharp protrusions or curbs.
- Be sure to fit tire chains on uniformly and completely around the tire, otherwise the chains may scratch the wheel.

• When wheel nuts, balance weights, or the center cap replaced, be sure to replace them with genuine SUBARU parts designed for aluminum wheels.

Windshield washer fluid



♠ CAUTION

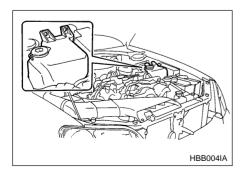
Never use engine coolant as washer fluid because it could cause paint damage.

Check the level of the washer fluid at each fuel stop. If the level is low, fill the fluid up to the neck of the reservoir.

Use windshield washer fluid. If windshield washer fluid is unavailable use clean water.

In areas where water freezes in winter, use an anti-freeze type windshield washer fluid. SUBARU Windshield Washer Fluid contains 58.5% methyl alcohol and 41.5% surfactant, by volume. Its freezing temperature varies according to how much it is diluted, as indicated below.

| Washer Fluid Concentration | Freezing Temperature | |
|----------------------------|----------------------|--|
| 30% | 10.4°F (-12°C) | |
| 50% | -4 °F (−20°C) | |
| 100% | −49°F (−45°C) | |



Replacement of windshield wiper blades

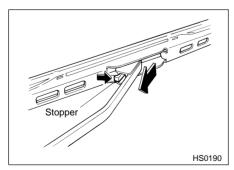
Grease, wax, insects, or other materials on the windshield or the wiper blade results in jerky wiper operation and streaking on the glass. If you cannot remove the streaks after operating the windshield washer or if the wiper operation is jerky, clean the outer surface of the windshield (or rear window) and the wiper blades using a sponge or soft cloth with a neutral detergent or mild-abrasive cleaner. 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.



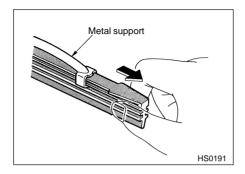
Do not clean the wiper blades with gasoline or a solvent, such as paint thinner or benzene. This will cause deterioration of the wiper blades.

If you cannot eliminate the streaking even after following this method, replace the wiper blades using the following procedures:

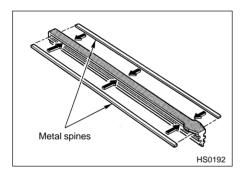
- 1. Raise the wiper arm off the windshield.
- 2. Remove the wiper blade assembly by holding its pivot area and pushing it in the direction shown by the arrow while depressing the wiper blade stopper.



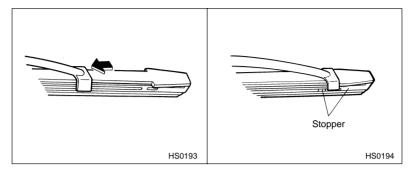
3. Grasp the locked end of the blade rubber assembly and pull it firmly until the stoppers on the rubber are free of the metal support.



4. If the new blade rubber is not provided with two metal spines, remove the metal spines from the old blade rubber and install them in the new blade rubber



5. Align the claws of the metal support with the grooves in the rubber and slide the blade rubber assembly into the metal support until it locks. Be sure to position the claws at the end of the metal support between the stoppers on the rubber as shown. If the rubber is not retained properly, the wiper blade may scratch the windshield.



- 6. Install the wiper blade assembly to the wiper arm. Make sure that it locks in place.
- 7. Lower the wiper arm.

Battery



- Before beginning work on or near any battery, be sure to extinguish all cigarettes, matches, and lighters. Never expose a battery to an open flame or electric sparks. Batteries give off a gas which is highly flammable and explosive.
- For safety, in case an explosion does occur, wear eye protection or shield your eyes when working near any battery. Never lean over a battery.
- Do not let battery fluid contact eyes, skin, fabrics, or paint because battery fluid is a corrosive acid. If battery fluid gets on your skin or in your eyes, immediately flush the area with water thoroughly. Seek medical help immediately if acid has entered the eyes.

If battery fluid is accidentally swallowed, immediately drink a large amount of milk or water, and seek medical attention immediately.

• To lessen the risk of sparks, remove rings, metal watchbands,

and other metal jewelry. Never allow metal tools to contact the positive battery terminal and anything connected to it WHILE you are at the same time in contact with any other metallic portion of the vehicle because a short circuit will result.

- Keep everyone including children away from the battery.
- Charge the battery in a well-ventilated area.

A CAUTION

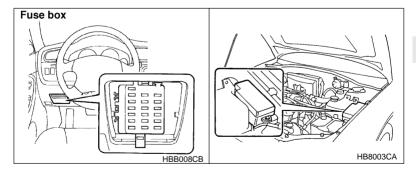
Never use more than 10 amperes when charging the battery because it will shorten battery life.

It is unnecessary to periodically check the battery fluid level or periodically refill with distilled water.

Fuses

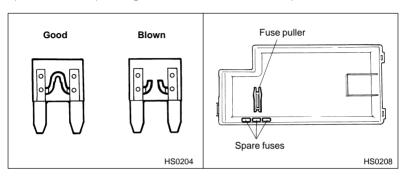


Never replace a fuse with one having a higher rating or with material other than a fuse because serious damage or a fire could result.



The fuses are designed to melt during an overload to prevent damage to the wiring harness and electrical equipment. The fuses are located in two fuse boxes. The one is located under the instrument panel behind the coin tray on the driver's seat side. The other one is housed in the engine compartment. The fuse puller and spare fuses are stored in the main fuse box cover in the engine compartment.

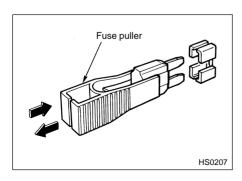
If any lights, accessories or other electrical controls do not operate, inspect the corresponding fuse. If a fuse has blown, replace it.



- 1. Turn the ignition switch to the "LOCK" position and turn off all electrical accessories.
- 2. Remove the cover.

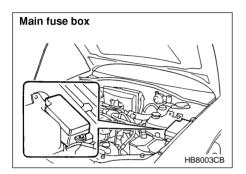
(For behind the coin tray: open the coin tray and pull it horizontally to remove it.)

3. Determine which fuse may be blown. The back side of each fuse box cover and the "Fuse and circuits" section in chapter 12 in this manual show the circuit for each fuse.



- 4. Pull out the fuse with the fuse puller.
- 5. Inspect the fuse. If it has blown, replace it with a spare fuse of the same rating.
- 6. If the same fuse blows again, this indicates that its system has a problem. Contact your SUBARU dealer for repairs.

Main fuse and fusible link

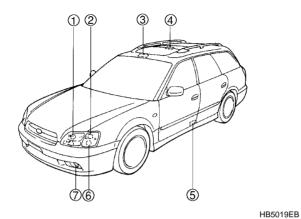


The main fuses and fusible link are designed to melt during an overload to prevent damage to the wiring harness and electrical equipment. Check the main fuses and fusible link if any electrical component fails to operate (except the starter motor) and other fuses are good. A melted main fuse or fusible link must be replaced. Use only replacements with the same specified rating as the melted main fuse or fusible link. If a main fuse or fusible link blows after it is replaced, have the electrical system checked by your nearest SUBARU dealer.

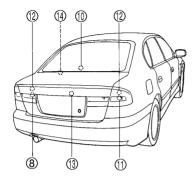
Installation of accessories

Always consult your SUBARU dealer before installing fog lights or any other electrical equipment in your vehicle. Such accessories may cause the electronic system to malfunction if they are incorrectly installed or if they are not suited for the vehicle.

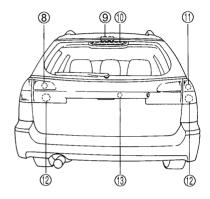
Replacing bulbs



| | Wattage | Bulb No. |
|-------------------------------------|------------|----------------|
| ① Headlight | 5 | |
| GT and OUTBACK models | | |
| Low beam | 12V-55W | H1 |
| High beam | 12V-60W | 9005 (HB3) |
| Except GT and OUTBACK models | 12V-60/55W | 9007 (HB5) |
| 2 Front turn signal | 12V-27W | 1156NA (Amber) |
| 3 Spot light | 12V-8W | _ |
| Dome light | 12V-8W | _ |
| Dome light/Rear map reading lights | | |
| (if equipped) | | |
| Dome light (room light) | 12V-8W | _ |
| Rear map reading lights | 12V-3.8W | 194 |
| 5 Door step light | 12V-3.4W | _ |
| 6 Front turn signal light/ | | |
| parking and front side marker light | 12V-27/8W | 1157NA (Amber) |
| Tront fog light | | , , |
| Except OUTBACK | 12V-55W | НЗ |
| OUTBACK | 12V-51W | 9006 (HB4) |



HBF013FC



HBB033BC

| | Wattage | Bulb No. |
|--------------------------|----------------|------------|
| 8 Backup light | _ | |
| Sedan | 12V-27W | 3156K |
| Station wagon | 12V-27W | 1156 |
| 9 Luggage area light | 12V-13W | _ |
| ① High mount stop light | | |
| Sedan | 12V-18W | 921 |
| Station wagon | 12V-13W | 912 |
| 1 Rear turn signal light | | |
| Sedan | 12V-21W | |
| Station wagon | 12V-21W | R2172 7440 |
| 12) Brake/tail light | | |
| Sedan | 12V-27/8W | 3157K |
| Station wagon | 12V-27/8W | 1157 |
| (13) Licence plate light | | |
| Sedan | 12V-5W | 168 |
| Station wagon | 12V-3.8W or 5W | 194 or 168 |
| 14) Trunk room light | 12V-5W | W5W |

■ Headlight



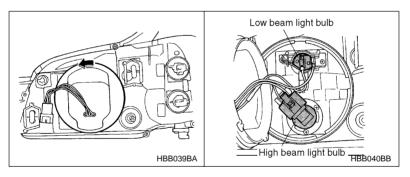
⚠ CAUTION

Halogen headlight bulbs become very hot while in use. If you touch the bulb surface with bare hands or greasy gloves, finger prints or grease on the bulb surface develop into hot spots, causing the bulb to break. If there are finger prints or grease on the bulb surface, wipe them away with a soft cloth moistened with alcohol.

NOTE

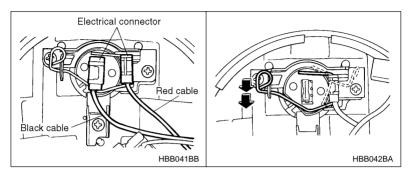
If headlight aiming is required, consult your SUBARU dealer for proper adjustment of the headlight aim.

▼ For GT and OUTBACK models



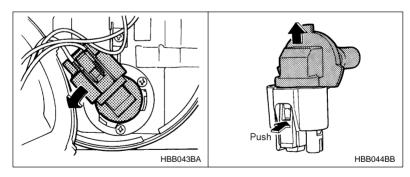
Remove the headlight bulb cover, by turning it counterclockwise.

∇ Low beam light bulbs



- 1. Disconnect the electrical connector for the black cable.
- 2. Remove the retainer spring.
- 3. Replace the bulb, then set the retainer spring securely.
- 4. Reconnect the electrical connector for black cable.
- 5. Install the headlight bulb cover.

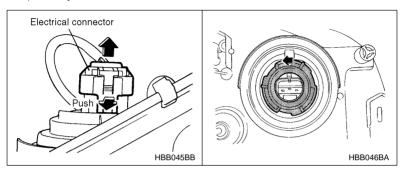
∇ High beam light bulbs



- 1. Disconnect the electrical connector from the bulb.
- 2. Remove the bulb from the headlight assembly by turning it counterclockwise.
- 3. Replace the bulb with new one.
- 4. Reconnect the electrical connector. At this time, use care not to touch the bulb surface.

- 5. To install the bulb to the headlight assembly, turn it clockwise until it clicks.
- 6. Install the headlight bulb cover.

▼ Except GT and OUTBACK models



- 1. Disconnect the electrical connector while pressing the lock release tab.
- 2. Remove the bulb holder from the headlight assembly by turning it counterclockwise.
- 3. Remove the bulb from the headlight assembly.
- 4. Install the new bulb.
- 5. Install the bulb holder in the headlight assembly by turning it clockwise until it locks.
- Remove the electrical connector.

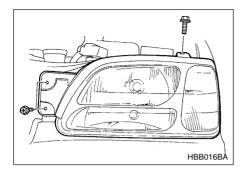
■ Front fog light (if equipped)

It may be difficult to replace the bulbs. Have your SUBARU dealer replace the bulbs if necessary.

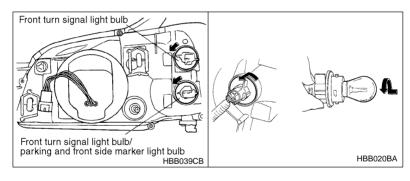
■ Front turn signal light, parking light and side marker light

The headlight assembly must be removed before the front turn signal light and parking light bulbs can be replaced. When the headlight assembly has been removed and then reinstalled, it may become necessary to make a headlight aiming adjustment. After a bulb has been replaced, it is recommended that the headlight aiming adjustment be

made at a SUBARU dealer.



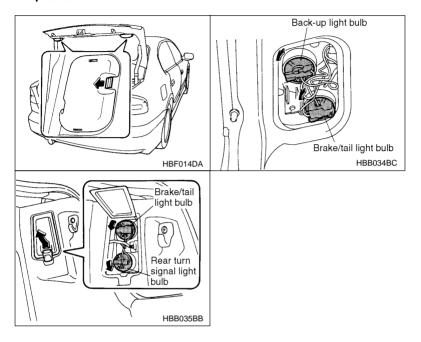
- 1. Remove the headlight assembly mounting screws located at the top of and the front of the headlight assembly using a phillips screwdriver or an open-end wrench.
- 2. Move the headlight assembly forward.



- 3. Remove the bulb socket from the headlight assembly by turning it counterclockwise.
- 4. Remove the bulb from the socket by pushing it and turning counter-clockwise. Install a new bulb in the socket.
- 5. Set the bulb socket into the headlight assembly and turn it clockwise until it locks.
- 6. Set the headlight assembly into the vehicle body. Tighten the mounting screws.

■ Rear combination lights

▼ Sedan



- 1. Open the trunk lid.
- 2. Open the rear combination light cover.

For covers on the trunk lid:

Unlatch the cover by pushing the knob and open the cover.

For covers on the trunk wall:

Unlatch the cover by moving the knob upward and open the cover.

- 3. Remove the bulb socket from the light assembly by turning it counterclockwise.
- 4. Remove the bulb from the socket.

Rear turn signal light: Remove the bulb from the socket by pushing it and turning it counterclockwise.

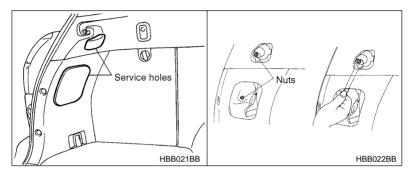
Others: Pull the bulb out of the socket.

- 5. Install a new bulb in the socket.
- 6. Set the bulb socket into the rear combination light assembly and turn it clockwise until it locks.
- 7. Close the cover and latch the clock.

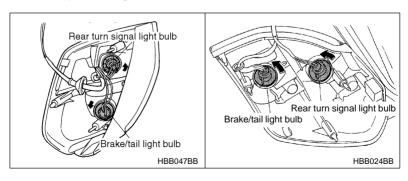
▼ Station wagon

▽ Brake/tail and rear turn signal light bulbs

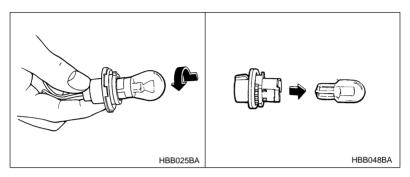
It may be difficult to replace the bulbs. It is recommended that you have the bulbs replaced by your SUBARU dealer.



- 1. Remove the light bulb replacement service hole covers at two places by prying the edge of the cover with a regular screwdriver.
- 2. Remove the upper and lower nuts. Then, slide the rear combination lamp assembly to the rear and remove it from the vehicle.



- 3. Using a Phillips screwdriver, remove the upper and lower screws that secure the side cover of the rear combination light assembly.
- 4. Remove the bulb socket from the rear combination light assembly by turning it counterclockwise.



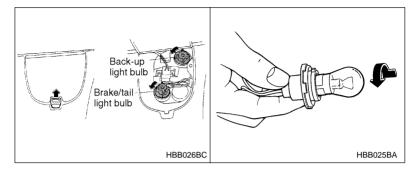
5. Remove the bulb from the socket.

Turn signal light: Pull the bulb out of the socket.

Brake/tail light: Remove the bulb from the socket by pushing it and turning it counterclockwise.

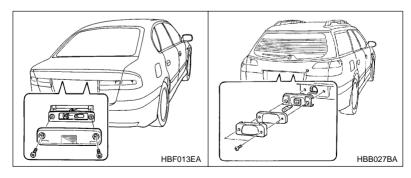
- 6. Install a new bulb in the socket.
- 7. Set the bulb holder into the rear combination light assembly and turn it clockwise until it locks.
- 8. Fit the rear combination light assembly into the vehicle body and tighten the nuts from the interior of the vehicle.
- 9. Reinstall the light bulb replacement service hole covers.

▽ Back-up and brake/tail light bulbs



- 1. Unlatch the rear combination light cover by moving the knob upward. Open the cover up.
- 2. Remove the bulb socket from the rear combination light assembly by turning it counterclockwise.
- 3. Remove the bulb from the socket by pushing it and turning counterclockwise. Install a new bulb in the socket.
- 4. Set the bulb holder into the rear combination light assembly and turn it clockwise until it locks.
- 5. Close the cover and latch the lock.

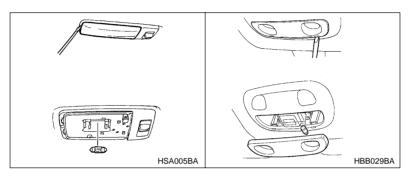
■ License plate light

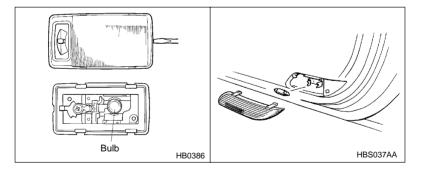


1. Remove the mounting screws using a phillips screwdriver.

- 2. Remove the cover and lens.
- 3. Pull the bulb out of the socket. Install a new bulb.
- 4. Reinstall the lens and cover.
- 5. Tighten the mounting screws.

■ Dome light, spot light, luggage compartment light and door step light



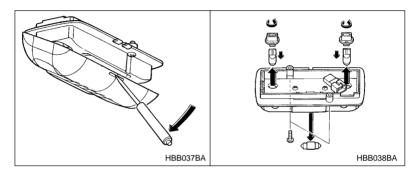


- 1. Remove the lens by prying the edge of the lens with a regular screw-driver.
- 2. Pull the bulb out of the socket. Install a new bulb.
- 3. Reinstall the lens.

■ Dome/Rear map reading lights (if equipped)

A CAUTION

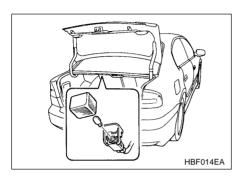
- While sitting in the vehicle, be sure to touch the metal frame of the vehicle to allow all static electricity to be discharged prior to replacing bulbs.
- Always use recommended replacement bulbs.



- 1. Remove the dome light lens as follows: Insert a small flat-tipped screwdriver into the center slot in the front edge of the lens and lever the lens downward in such a way that it may be bowed and disengaged from the mounting tabs.
- 2. To replace the dome light bulb (center bulb): remove the dome light by pulling it out of its retainer clips, then insert a new bulb into the retainer clips.
- 3. To replace the map light bulbs: use a Phillips head screwdriver to remove the two mounting screws located on either side of the lamp assembly. Pull the assembly downward out of the headliner. At this time, use care not to touch the circuit board.
- 4. Remove the necessary bulb socket from the circuit board by grasping it on the backside of the lamp assembly and twisting counterclockwise to disengage.
- 5. Pull the bulb out of the socket. Install a new bulb by pushing it into the socket

- 6. Reinstall the socket in the circuit board. Then, fit the lamp assembly back into the headliner.
- 7. Reinstall the lens in the reverse order of removal.

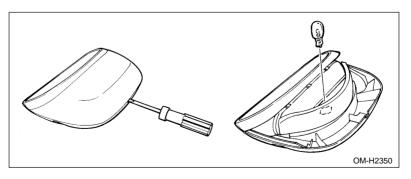
■ Trunk light



- 1. Remove the cover by pulling it out.
- 2. Pull the bulb out of the socket. Install a new bulb.
- 3. Reinstall the cover.

■ High mount stop light

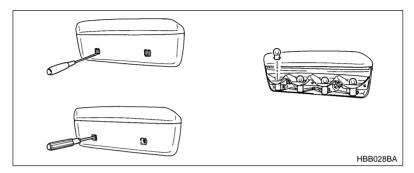
▼ Sedan



1. Remove the high mount stop light cover by prying on the edge with a screwdriver.

- 2. Pull the bulb out of the socket. Install a new bulb.
- Reinstall the cover.

▼ Station wagon



- 1. Remove the mounting screw covers by prying on the edge with a screwdriver.
- 2. Remove the mounting screws using a phillips screwdriver and then remove the high mount stop light cover.
- 3. Pull the bulb out of the socket. Install a new bulb.
- 4. Reinstall the cover.
- 5. Tighten the mounting screws then reinstall the covers.

NOTE

Other bulbs may be difficult to replace. Have your SUBARU dealer replace these bulbs if necessary.