

MA-14

MAINTENANCE — (3S-GTE)

GENERAL MAINTENANCE

These are the maintenance and inspection items which are considered to be the owner's responsibility. They can be performed by the owner or he can have them done at a service shop. These items include those which should be checked on a daily basis, those which, in most cases, do not require (special) tools and those which are considered to be reasonable for the owner to perform. Items and procedures for general maintenance are as follows:

OUTSIDE VEHICLE**1. TIRES**

- (a) Check the pressure with a gauge. Adjust if necessary.
- (b) Check for cuts, damage or excessive wear.

2. WHEEL NUTS

When checking the tires, check the nuts for looseness or for missing nuts. If necessary, tighten them.

3. WINDSHIELD WIPER BLADES

Check for wear or cracks whenever they do not wipe clean. Replace if necessary.

4. FLUID LEAKS

- (a) Check underneath for leaking fuel, oil, water or other fluid.
- (b) If you smell gasoline fumes or notice any leak, have the cause found and corrected.

5. DOORS AND ENGINE HOOD

- (a) Check that all doors including the trunk lid operate smoothly, and that all latches lock securely.
- (b) Check that the engine hood secondary latch secures the hood from opening when the primary latch is released.

INSIDE VEHICLE**6. LIGHTS**

- (a) Check that the headlights, stop lights, tail-lights, turn signal lights, and other lights are all working.
- (b) Check the headlight aim.

7. WARNING LIGHTS AND BUZZERS

Check that all warning lights and buzzers function properly.

8. HORN

Check that it is working.

9. WINDSHIELD GLASS

Check for scratches, pits or abrasions.

10. WINDSHIELD WIPER AND WASHER

- (a) Check operation of the wipers and washer.
- (b) Check that the wipers do not streak.

11. WINDSHIELD DEFROSTER

Check that the air comes out from the defroster outlet when operating the heater or air conditioner at defroster mode.

12. REAR VIEW MIRROR

Check that it is mounted securely.

13. SUN VISORS

Check that they more freely and mounted securely.

14. STEERING WHEEL

Check that it has the specified freeplay. Be alert for changes in steering condition, such as hard steering, excessive freeplay or strange noise.

15. SEATS

- (a) Check that all seat controls such as seat adjusters, seat back recliner, etc. operate smoothly.
- (b) Check that all latches lock securely in any position.
- (c) Check that the locks hold securely in any latches position.
- (d) Check that the head restraints move up and down smoothly and that the locks hold securely in any latched position.

16. SEAT BELTS

- (a) Check that the seat belt system such as buckles, retractors and anchors operate properly and smoothly.
- (b) Check that the belt webbing is not cut, frayed, worn or damaged.

17. ACCELERATOR PEDAL

Check the pedal for smooth operation and uneven pedal effort or catching.

18. CLUTCH PEDAL (See CL section)

Check the pedal for smooth operation. Check that the pedal has the proper freeplay.

19. BRAKE PEDAL (See BR section)

- (a) Check the pedal for smooth operation.
- (b) Check that the pedal has the proper re-serve distance and freeplay.
- (c) Check the brake booster function.

20. BRAKES

At a safe place, check that the brakes do not pull to one side when applied.

21. PARKING BRAKE (See BR section)

- (a) Check that the lever has the proper travel.
- (b) On a safe incline, check that the vehicle is held securely with only the parking brake applied.

29. POWER STEERING FLUID LEVEL

Check the level.

The level should be in the "HOT" or "COLD" range depending on the fluid temperature.

30. EXHAUST SYSTEM

Visually inspect for cracks, holes or loose supports.

If any change in the sound of the exhaust or smell of the exhaust fumes is noticed, have the cause located and corrected.

UNDER HOOD

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22. WINDSHIELD WASHER FLUID

Check that there is sufficient fluid in the tank.

23. ENGINE COOLANT LEVEL

Check that the coolant level is between the "FULL" and "LOW" lines on the see-through reservoir.

24. RADIATOR AND HOSES

- (a) Check that the front of the radiator is clean and not blocked with leaves, dirt or bugs.
- (b) Check that hoses for cracks, kinks, rot or loose connections.

25. BATTERY ELECTROLYTE LEVEL

Check that the electrolyte level of all battery cells is between the upper and lower level lines on the case. If level low, add distilled water only.

26. BRAKE AND CLUTCH FLUID LEVELS

- (a) Check that the brake fluid level is near the upper level line on the see-through reservoir.
- (b) Check that the clutch fluid level is within ± 5 mm (0.20 in.) of the reservoir hem.

27. ENGINE DRIVE BELTS

Check all drive belts for fraying, cracks, wear or oiliness.

28. ENGINE OIL LEVEL

Check the level on the dipstick with the engine turned off.

GENERAL MAINTENANCE

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MAJOR - 01

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- (b) Check that the engine hood secondary latch secures the hood from opening when the primary latch is released.

INSIDE VEHICLE

MAJOR - 01

6. LIGHTS

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- (b) Check the headlight aim.

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Check the pedal for smooth operation and uneven pedal effort or catching.

18. CLUTCH PEDAL (See CL section)

- Check the pedal for smooth operation.
- Check that the pedal has the proper freeplay.

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MAINTENANCE - (5S-FE)

19. BRAKE PEDAL (See BR section)

- (a) Check the pedal for smooth operation.
- (b) Check that the pedal has the proper reserve distance and freeplay.
- (c) Check the brake booster function.

20. BRAKES

A safe place, check that the brakes do not pull to one side when applied.

21. PARKING BRAKE (See BR section)

- (a) Check that the lever has the proper travel.
- (b) On a safe incline, check that the vehicle is held securely with only the parking brake applied.

22. AUTOMATIC TRANSMISSION PARK MECHANISM

- (a) Check that lock release button of the selector lever for proper and smooth operation.
- (b) On a safe incline, check that the vehicle is held securely with the selector lever in the "P" position and all brakes released.

UNDER HOOD**23. WINDSHIELD WASHER FLUID**

Check that there is sufficient fluid in the tank.

24. ENGINE COOLANT LEVEL

Check that the coolant level is between the "FULL" and "LOW" lines on the see-through reservoir.

25. RADIATOR AND HOSES

- (a) Check that the front of the radiator is clean and not blocked with leaves, dirt or bugs.
- (b) Check that hoses for cracks, kinks, rot or loose connections.

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- (b) Check that the clutch fluid level is within ± 5 mm (0.20 in.) of the reservoir hem.

28. ENGINE DRIVE BELTS

Check all drive belts for fraying, cracks, wear or oiliness.

29. ENGINE OIL LEVEL

Check the level on the dipstick with the engine turned off.

30. POWER STEERING FLUID LEVEL

Check the level.

The level should be in the "HOT" or "COLD" range depending on the fluid temperature.

31. AUTOMATIC TRANSMISSION FLUID LEVEL

- (a) Park the vehicle on a level surface.
- (b) With the engine idling and the parking brake applied, shift the selector into all positions from "P" to "L" and then shift into "P"
- (c) Pull out the dipstick and wipe off the fluid with a clean rag.
Re – insert the dipstick and check that the fluid level is in the HOT range.
- (d) Perform this check with the fluid at normal driving temperature (70 – 80° C (158 – 176° F)).

HINT: Wait about 30 minutes before checking the fluid level after extended driving at high speeds in hot weather, driving in heavy traffic or with a trailer.

32. EXHAUST SYSTEM

Visually inspect for cracks, holes or loose supports.

If any change in the sound of the exhaust or smell of the exhaust fumes is noticed, have the cause located and corrected.

MAINTENANCE OPERATIONS

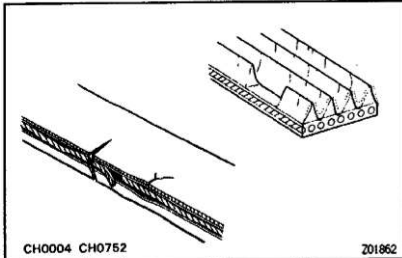
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ENGINE

Cold Engine Operations

1. REPLACE TIMING BELT

(See Engine Mechanical in EG section)

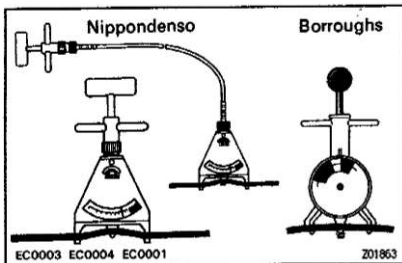


2. INSPECT DRIVE BELTS

(a) Visually check the belt for excessive wear, frayed cords etc.

If necessary, replace the drive belt.

HINT: Cracks on the rib side of a belt are considered acceptable. If the belt has chunks missing from the ribs, it should be replaced.



(b) Using a belt tension gauge, measure the belt tension.

Belt tension gauge:

Nippondenso BTG-20 (95506-00020)

Borroughs No. BT-33-73F

Drive belt tension:

Alternator

New belt

120 ± 20 lbf

Used belt

104 ± 20 lbf

A/C compressor

New belt

160 ± 25 lbf

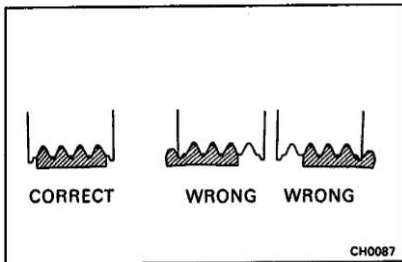
Used belt

100 ± 20 lbf

If necessary, adjust the belt tension.

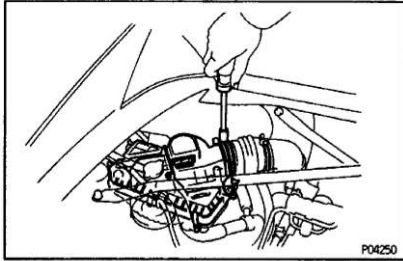
HINT:

- "New belt" refers to a belt which has been used less than 5 minutes on a running engine.
- "Used belt" refers to a belt which has been used on a running engine for 5 minutes or more.
- After installing the belt, check that it fits properly in the ribbed grooves.
- Check by hand to confirm that the belt has not slipped out of the groove on the bottom of the pulley.
- After installing a new belt, run the engine for about 5 minutes and recheck the belt tension.

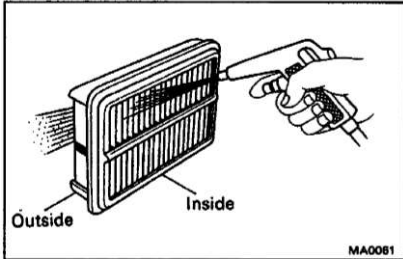


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MAINTENANCE - (3S-GTE)

**3. INSPECT AIR FILTER**

- (a) Remove the air cleaner cap and air filter.



- (b) Visually check that the air filter is not excessively damaged or only.
If necessary, replace the air filter.

- (c) Clean the air filter with compressed air.

First blow from the inside thoroughly, then blow off the outside of the air filter.

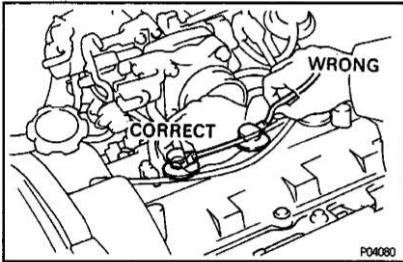
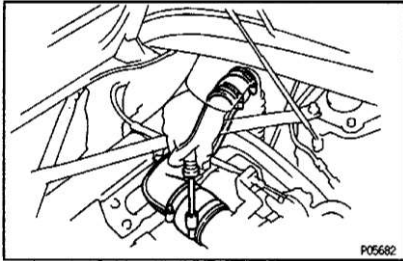
- (d) Reinstall the air filter and cleaner cap.

4. REPLACE AIR FILTER

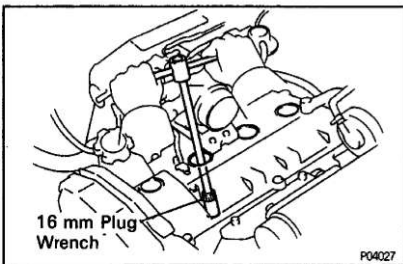
Replace the air filter with a new one.

5. REPLACE SPARK PLUGS

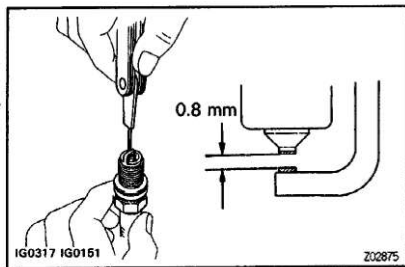
- (a) Disconnect the No.1 intake air connector from the throttle body.



- (b) Disconnect the high – tension cords at the rubber boot. Do not pull on the cords.



- (c) Using a 16 mm plug wrench, remove the spark plugs.



(d) Check the electrode gap of new spark plugs.

Correct electrode gap:

0.8 mm (0.0031 in.)

Recommended spark plugs:

PK20R8 for ND

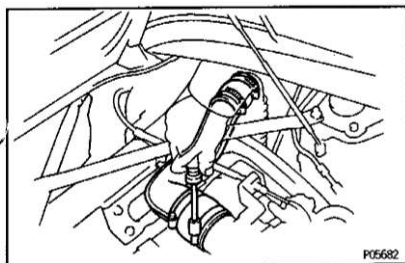
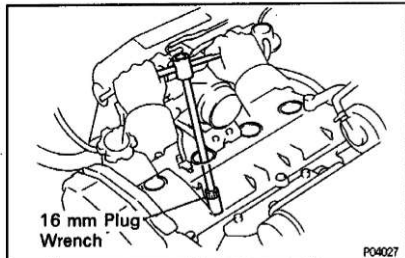
BKR6EP8 for NGK

NOTICE: If adjusting the gap of a new plug, bend only the base of the ground electrode. Do not touch the tip. Never attempt to adjust the gap on a used plug.

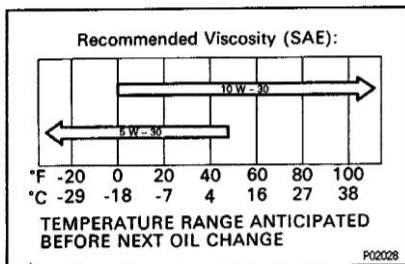
(e) Using a 16 mm plug wrench, reinstall the spark plugs.

Torque: 18 N-m (180 kgf-cm, 13 ft-lbf)

(f) Reconnect the high-tension cords.



(g) Reconnect the No.1 intake air connector to the throttle body.



6. REPLACE ENGINE OIL AND OIL FILTER

(See Lubrication System in EG section)

Oil grade:

API grade SG Energy – Conserving II multigrade engine oil. Recommended viscosity is as shown.

Drain and refill capacity:

w/ Oil filter change

3.9 liters (4.1 US qts, 3.4 Imp. qts)

w/o Oil filter change

3.6 liters (3.8 US qts, 3.2 Imp. qts)

7. REPLACE ENGINE COOLANT

(See Cooling System in EG section)

HINT:

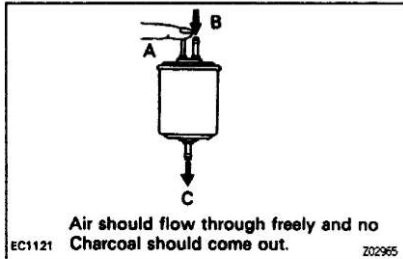
- Use a good brand of ethylene-glycol base coolant and mix it according to the manufacturer's instructions.
- Using coolant which includes more than 50% ethylene – glycol (but not more than 70%) is recommended.

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MAINTENANCE - (3S - GTE)

NOTICE:

- Do not use alcohol type coolant.
- The coolant should be mixed with demineralized water or distilled water.

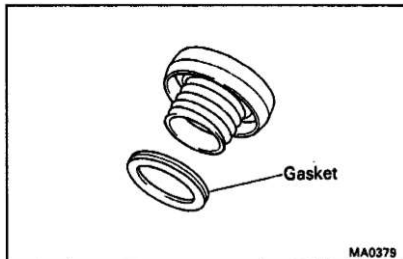
Coolant capacity (w/ Heater):**13.6 liters (14.4 US qts. 12.0 Imp. qts)****8. INSPECT CHARCOAL CANISTER**

- Disconnect the hoses from the charcoal canister.
Label hoses for correct installation.
 - Plug port A with your finger, and blow compressed air (294 kPa (3 kgf/cm², 43 psi)) through port B (fuel tank side).
- Check that the air comes out of the bottom of port C without resistance.
 - Check that no activated charcoal comes out.

If necessary, replace the charcoal canister.

NOTICE: Do not attempt to wash the charcoal.

- Reconnect the hoses to the charcoal canister.

**9. REPLACE GASKET IN FUEL TANK CAP**

- Remove the old gasket from the tank cap.

NOTICE: Do not damage the tank cap.

- Install a new gasket by hand.
- Check the cap for damage or cracks.
- Reinstall the cap and check the torque limiter.

10. INSPECT FUEL LINES AND CONNECTIONS

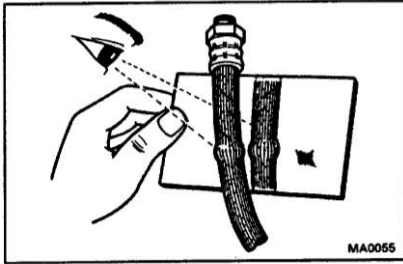
Visually check the fuel lines for cracks, leakage, loose connections, deformation or tank band looseness.

11. INSPECT EXHAUST PIPES AND MOUNTINGS

Visually check the pipes, hangers and connections for severe corrosion, leaks or damage.

12. ADJUST VALVE CLEARANCE

(See Tune-Up in EG section)

Valve clearance (Cold):**Intake****0.15 – 0.25 mm (0.006 – 0.010 in.)****Exhaust****0.28 – 0.38 mm (0.011 – 0.015 in.)****BRAKES**

MA018-01

13. INSPECT BRAKE LINE PIPES AND HOSES

HINT: Check in a well lighted area. Check the entire circumference and length of the brake hoses using a mirror as required. Turn the front wheels fully right or left before checking the front brake.

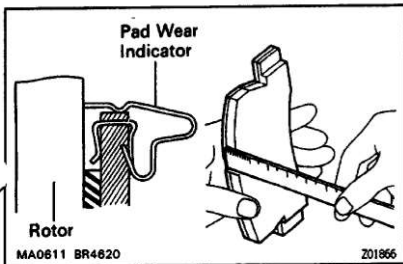
(a) Check all brake lines and hoses for:

- Damage
- Wear
- Deformation
- Cracks
- Corrosion
- Leaks
- Bends
- Twists

(b) Check all clamps for tightness and connections for leakage.

(c) Check that the hoses and lines are clear of sharp edges, moving parts and the exhaust system.

(d) Check that the lines installed in grommets pass through the center of the grommets.

**14. INSPECT BRAKE PADS AND DISCS (See BR section)**

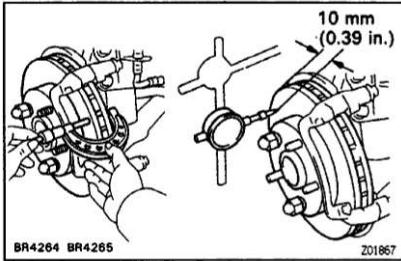
(a) Check the thickness of the disc brake pads and check for irregular wear.

Minimum pad thickness:**1.0 mm (0.039 in.)**

HINT: If a squealing or scraping noise comes from the brake during driving, check the pad wear indicator to see if it is contacting the disc rotor. If so, the disc pad should be replaced.

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MAINTENANCE - (3S - GTE)



(b) Check the disc for wear or runout.

Minimum disc thickness:**Front**

28.0 mm (1.102 in.)

Rear

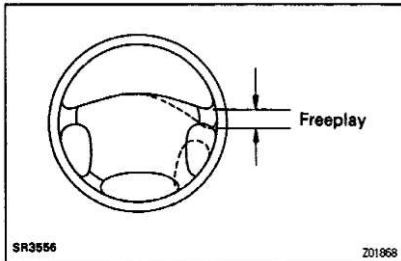
21.0 mm (0.827 in.)

Maximum disc runout:**Front**

0.07 mm (0.0028 in.)

Rear

0.10 mm (0.0039 in.)



CHASSIS

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15. INSPECT STEERING LINKAGE

(a) Check the steering wheel freeplay.

Maximum steering wheel freeplay:

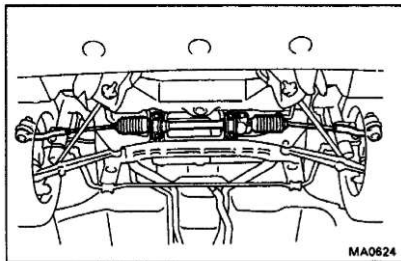
30 mm (1.18 in.)

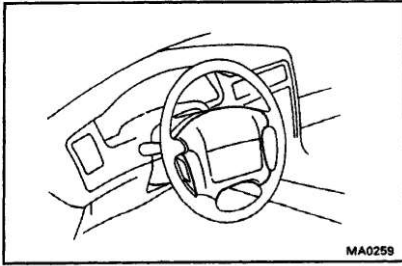
With the vehicle stopped and pointed straight ahead, rock the steering wheel gently back and forth with light finger pressure.

(b) Check the steering linkage for looseness or damage.

Check that:

- Tie rod ends do not have excessive play.
- Dust seals and boots are not damaged.
- Boot clamps are not loose.



**16. INSPECT SRS AIRBAG**

Visually inspect the steering wheel pad (airbag and inflator).

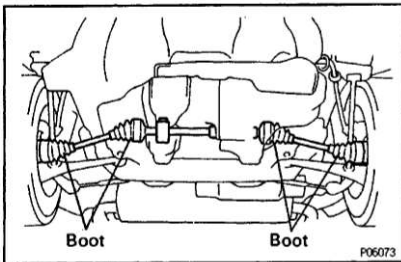
- Use the diagnosis check to check if there are abnormalities.
- Check that there are no cuts, cracks or noticeable color changes on the surface of the steering wheel pad or in the center groove of the pad.
- Remove the steering wheel pad from the vehicle and check the wiring and steering wheel for damage and corrosion due to rusting, etc.. If necessary, replace the steering wheel pad.

CAUTION:

- For removal and replacement of the steering wheel pad, see page SR section and be sure to perform the operation in the correct order.
- Before disposing of the steering wheel pad, the airbag must first be deployed by using SST (See AB section).

17. INSPECT STEERING GEAR HOUSING OIL

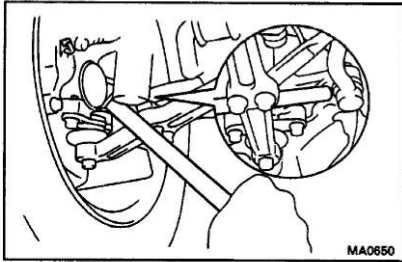
Check the steering gear housing for oil leakage.

**18. INSPECT DRIVE SHAFT BOOTS**

Check the drive shaft boots for clamp looseness, leakage or damage.

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MAINTENANCE - (3S-GTE)

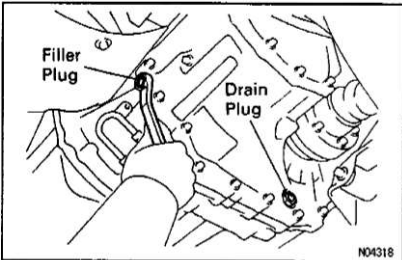
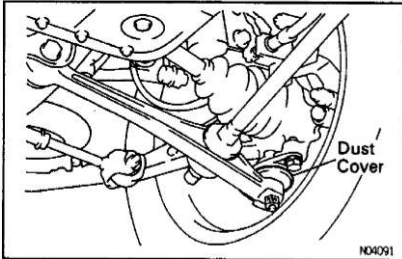
**19. INSPECT BALL JOINTS AND DUST COVERS**

- (a) Inspect the ball joints for excessive looseness.
- Jack up the front of the vehicle and place wooden blocks with a height of 180 – 200 mm (7.09 – 7.87 in.) under the front tires.
 - Lower the jack until there is about half a load on the front coil spring. Place stands under the vehicle for safety.
 - Check that the front wheels are in a straight forward position, and block them with shocks.
 - Using a lever, pry up the end of the lower arm, and check the amount of play.

Maximum ball joint vertical play:**0 mm (0 in.)**

If there is play, replace the ball joint.

- (b) Check the dust cover for damage.

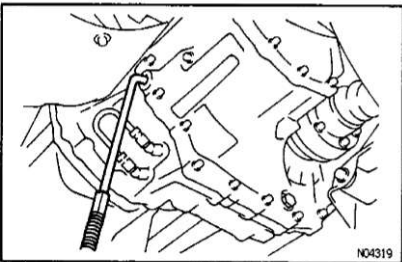
**20. CHECK TRANSAXLE OIL**

Visually check the transaxle for oil leakage.

If leakage is found, check for the cause and repair.

21. REPLACE TRANSAXLE OIL (INCL. DIFFERENTIAL OIL)

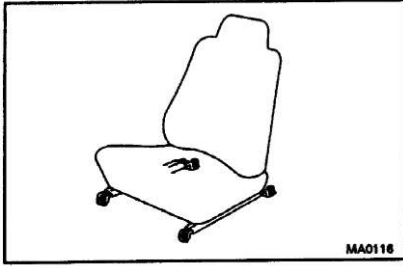
- (a) Remove the filler and drain plugs, and drain the oil.
(b) Reinstall the drain plug securely.



- (c) Add new oil until it begins to run out of the filler hole.

Recommended oil**Oil grade:****API GL-3, GL-4 or GL-5****Viscosity:****SAE 75W – 90 or 80W – 90****Above –18° C (0° F) SAE 90****Below –18° C (0° F) SAE 80W****Standard Type****Capacity: 4.2 liters (4.4 US qts, 3.7 Imp.qts)****Viscous Coupling LSD Type****Capacity: 3.9 Liters (4.1 US qts, 3.4 Imp. qts)**

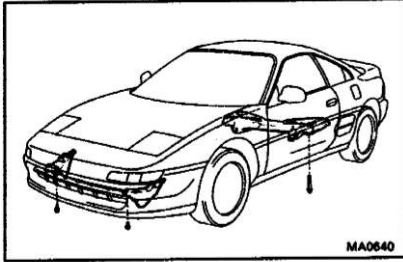
- (d) Reinstall the filler plug securely.



22. TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY

Tighten the following parts:

- Seat mount bolts
Torque: 37 N-m (375 kgf-cm, 27 ft-lbf)



Strut bar bracket-to-body mounting bolts

Torque: 80 N-m (820 kgf-cm, 59 ft-lbf)

Rear suspension lower crossmember-to-body mounting bolts

Torque: 113 N-m (1,150. kgf-cm, 83 ft-lbf)

23. FINAL INSPECTION

(a) Check the operation of the body parts:

- Hood
- Auxiliary catch operates properly
- Hood locks securely when closed
- Doors
- Door lock operates properly
- Doors close properly
- Luggage compartment door
- Door lock operates properly
- Seats

Seat adjusts easily and locks securely in any position

Seat back locks securely in any position

Folding-down rear seat backs lock securely

(b) Road test

- Check the engine and chassis for abnormal noises.
- Check that the vehicle does not wander or pull to one side.
- Check that the brakes work properly and do not drag.

(c) Be sure to deliver a clean car and especially check:

- Steering wheel
- Shift lever knob
- All switch knobs
- Door handles
- Seats

MA-20

MAINTENANCE - (5S-FE)

MAINTENANCE OPERATIONS

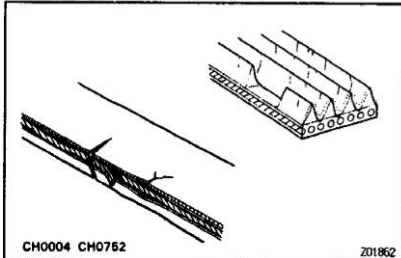
MA005-02

ENGINE

Cold Engine Operations

1. REPLACE TIMING BELT

(See Engine Mechanical in EG section)

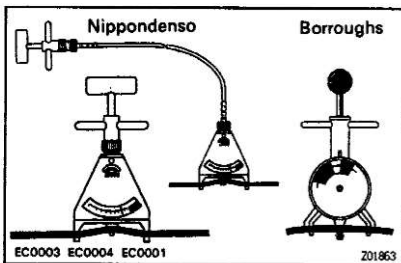


2. INSPECT DRIVE BELTS

- (a) Visually check the belt for excessive wear, frayed cords etc.

If necessary, replace the drive belt.

HINT: Cracks on the rib side of a belt are considered acceptable. If the belt has chunks missing from the ribs, it should be replaced.



- (b) Using a belt tension gauge, measure the belt tension.

Belt tension gauge:

Nippondenso BTG-20 (95506-00020)

Borroughs No. BT-33-73F

Drive belt tension:

Alternator

New belt

120 ± 20 lbf

Used belt

104 ± 20 lbf

A/C compressor

New belt

160 ± 25 lbf

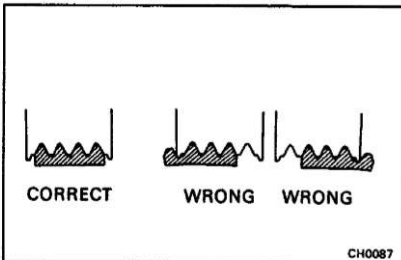
Used belt

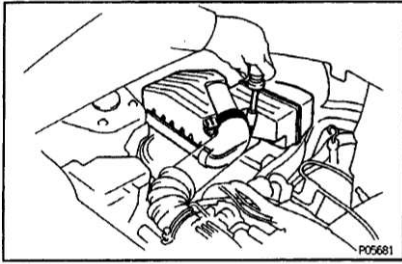
100 ± 20 lbf

If necessary, adjust the belt tension.

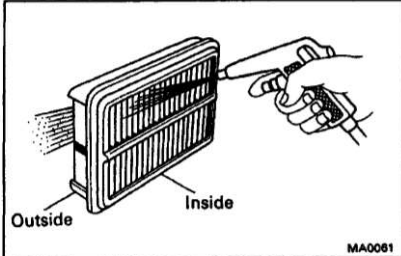
HINT:

- "New belt" refers to a belt which has been used less than 5 minutes on a running engine.
- "Used belt" refers to a belt which has been used on a running engine for 5 minutes or more.
- After installing the belt, check that it fits properly in the ribbed grooves.
- Check by hand to confirm that the belt has not slipped out of the groove on the bottom of the pulley.
- After installing a new belt, run the engine for about 5 minutes and recheck the belt tension.



**3. INSPECT AIR FILTER**

(a) Remove the air cleaner cap and air filter.



(b) Visually check that the air filter is not excessively damaged only.

If necessary, replace the air filter.

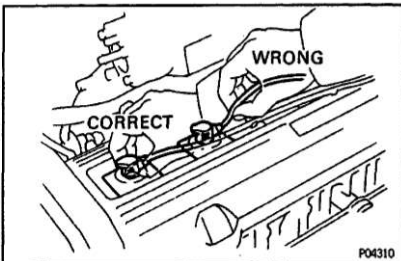
(c) Clean the air filter with compressed air.

First blow from the inside thoroughly, then blow off the outside of the air filter.

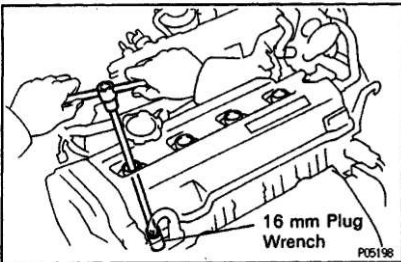
(d) Reinstall the air filter and cap.

4. REPLACE AIR FILTER

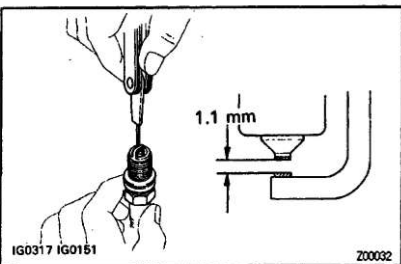
Replace the air filter with a new one.

**5. REPLACE SPARK PLUGS**

(a) Disconnect the high-tension cords at the rubber boot. Do not pull on the cords.



(b) Using a 16 mm plug wrench, remove the spark plugs.



(c) Check the electrode gap of new spark plugs.

Correct electrode gap:

1.1 mm (0.0043 in.)

Recommended spark plugs:

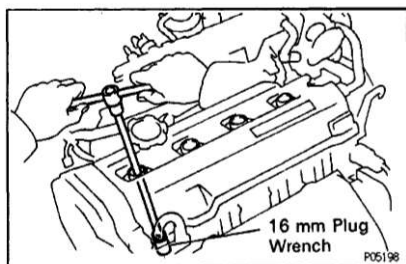
PK20R11 for ND

BKR6EP-11 for NGK

NOTICE: If adjusting the gap of a new plug, bend only the base of the ground electrode. Do not touch the tip. Never attempt to adjust the gap on a used plug.

MA-22

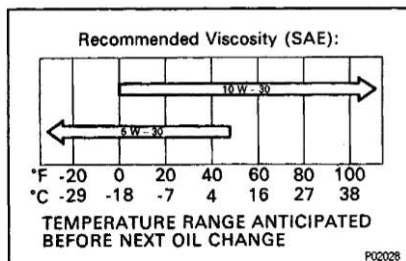
MAINTENANCE - (5S-FE)



(d) Using a 16 mm plug wrench, reinstall the spark plugs.

Torque: 18 N-m (180 kgf-cm, 13 ft-lbf)

(e) Reconnect the high-tension cords.

**6. REPLACE ENGINE OIL AND OIL FILTER**

(See Lubrication System in EG section)

Oil grade:

API grade **SG Energy – Conserving II** multigrade engine oil. Recommended viscosity is as shown.

Drain and refill capacity:

w/ oil filter change

4.2 liters (4.4 US qts, 3.7 Imp. qts)

w/o Oil filter change

3.8 liters (4.0 US qts, 3.3 Imp. qts)**7. REPLACE ENGINE COOLANT**

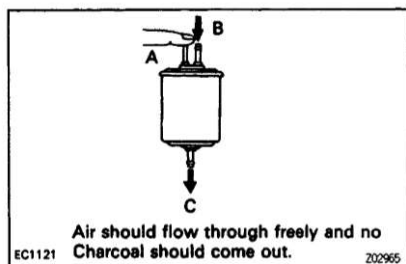
(See Cooling System in EG section)

HINT:

- Use a good brand of ethylene-glycol base coolant and mix it according to the manufacturer's instructions.
- Using coolant which includes more than 50% ethylene – glycol (but not more than 74%) is recommended.

NOTICE:

- Do not use alcohol type coolant.
- The coolant should be mixed with demineralized water or distilled water.
- Coolant capacity (w/ Heater):
13.0 liters (13.7 US qts, 11.0 Imp. qts)

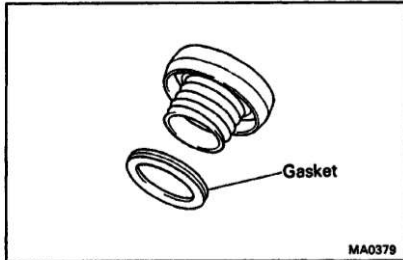
**8. INSPECT CHARCOAL CANISTER**

- Disconnect the hoses from the charcoal canister.
Label hoses for correct installation.
- Plug port A with your finger, and blow compressed air (294 kPa (3kgf/cm², 43 psi)) through port B (fuel tank side).
 - Check that the air comes out of the bottom of port C without resistance.
 - Check that no activated charcoal comes out.

If necessary, replace the charcoal canister—.

NOTICE: Do not attempt to wash the charcoal.

(c) Reconnect the hoses to the charcoal canister.



9. REPLACE GASKET IN FUEL TANK CAP

(a) Remove the old gasket from the tank cap.

NOTICE: Do not damage the tank cap.

(b) Install a new gasket by hand.

(c) Check the cap for damage or cracks.

(d) Reinstall the cap and check the torque limiter.

10. INSPECT FUEL LINES AND CONNECTIONS

Visually check the fuel lines for cracks, leakage, loose connections, deformation or tank band looseness.

11. INSPECT EXHAUST PIPES AND MOUNTINGS

Visually check the pipes, hangers and connections for severe corrosion, leaks or damage.

12. ADJUST VALVE CLEARANCE

(See Tune-Up in EG section)

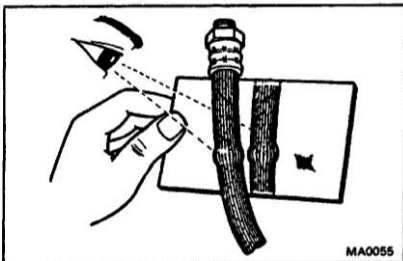
Valve clearance (Cold):

Intake

0.19 – 0.29 mm (0.007 – 0.011 in.)

Exhaust

0.28 – 0.38 mm (0.011 – 0.015 in.)



BRAKES

MA0111-01

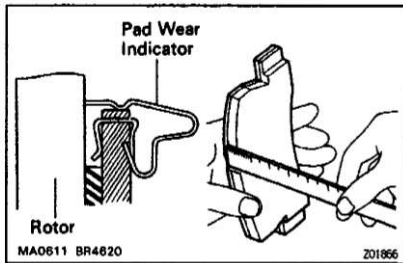
13. INSPECT BRAKE LINE PIPES AND HOSES

HINT: Check in a well lighted area. Check the entire circumference and length of the brake hoses using a mirror as required. Turn the front wheels fully right or left before checking the front brake.

MA-24

MAINTENANCE - (5S-FE)

- (a) Check all brake lines and hoses for:
- Damage
 - Wear
 - Deformation
 - Cracks
 - Corrosion
 - Leaks
 - Bends
 - Twists
- (b) Check all clamps for tightness and connections for leakage.
- (c) Check that the hoses and lines are clear of sharp edges, moving parts and the exhaust system.
- (d) Check that the lines installed in grommets pass through the center of the grommets.

**14. INSPECT BRAKE PADS AND DISCS (See BR section)**

- (a) Check the thickness of the disc brake pads and check for irregular wear.

Minimum pad thickness:

1.0 mm (0.039 in.)

HINT: If a squealing or scraping noise comes from the brake during driving, check the pad wear indicator to see if it is contacting the disc rotor. If so, the disc pad should be replaced.

- (b) Check the disc for wear or runout.

Minimum disc thickness:

Front

24.0 mm (0.787 in.)

Rear

15.0 mm (0.590 in.)

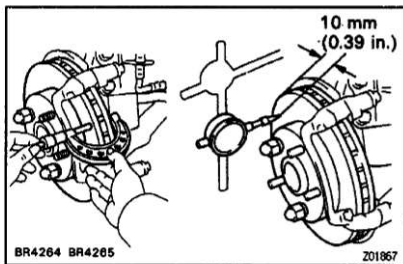
Maximum disc runout:

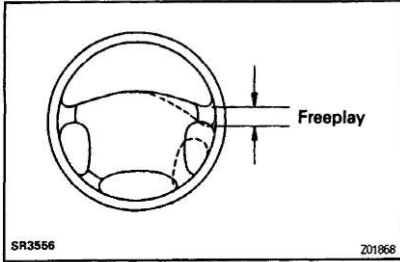
Front

0.07 mm (0.0028 in.)

Rear

0.10 mm (0.0039 in.)



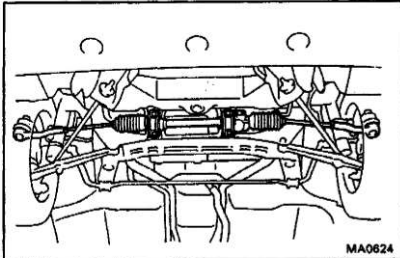
**CHASSIS****15. INSPECT STEERING LINKAGE**

(a) Check the steering wheel freeplay.

Maximum steering wheel freeplay:

30 mm (1.18 in.)

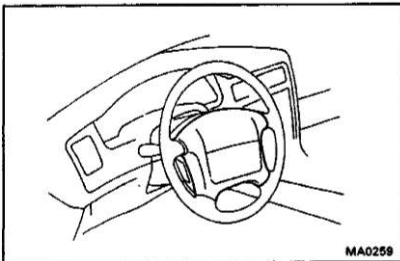
With the vehicle stopped and pointed straight ahead, rock the steering wheel gently back and forth with light finger pressure.



(b) Check the steering linkage for looseness or damage.

Check that:

- Tie rod ends do not have excessive play.
- Dust seals and boots are not damaged.
- Boot clamps are not loose.

**18. INSPECT SRS AIRBAG**

Visually inspect the steering wheel pad (airbag and inflator).

- Use the diagnosis check to check if there are abnormalities.
 - Check that there are no cuts, cracks or noticeable color changes on the surface of the steering wheel pad or in the center groove of the pad.
 - Remove the steering wheel pad from the vehicle and check the wiring and steering wheel for damage and corrosion due to rusting, etc..
- If necessary, replace the steering wheel pad.

CAUTION:

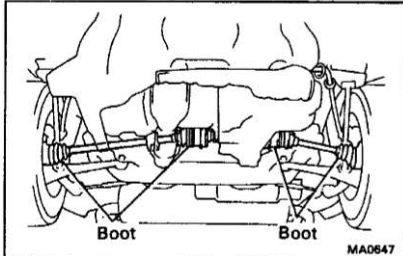
- For removal and replacement of the steering wheel pad, see page SR section and be sure to perform the operation in the correct order.
- Before disposing of the steering wheel pad, the airbag must first be deployed by using an SST (See AB section).

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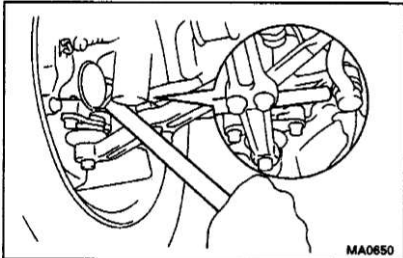
MAINTENANCE - (5S-FE)

17. INSPECT STEERING GEAR HOUSING OIL

Check the steering gear housing for oil leakage.

**18. INSPECT DRIVE SHAFT BOOTS**

Check the drive shaft boots for clamp looseness, leakage or damage.

**19. INSPECT BALL JOINTS AND DUST COVERS**

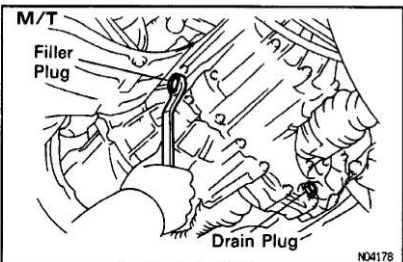
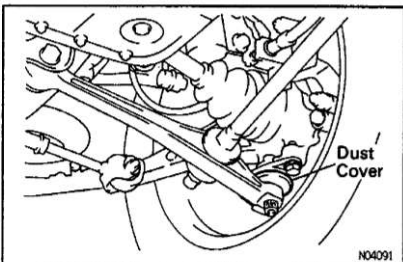
(a) Inspect the ball joints for excessive looseness.

- Jack up the front of the vehicle and place wooden blocks with a height of 180 – 200 mm (7.09 – 7.87 in.) under the front tires.
- Lower the jack until there is about half a load on the front coil spring. Place stands under the vehicle for safety.
- Check that the front wheels are in a straight forward position, and block them with shocks.
- Using a lever, pry up the end of the lower arm, and check the amount of play.

Maximum ball joint vertical play:**0 mm (0 in.)**

If there is play, replace the ball joint.

(b) Check the dust cover for damage.

**20. CHECK TRANSAXLE OIL (FLUID)**

Visually check the transaxle for oil (fluid) leakage.

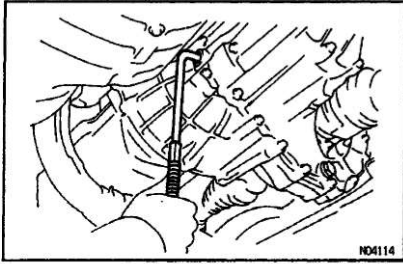
If leakage is found, check for the cause and repair.

21. REPLACE TRANSAXLE OIL (FLUID)**(INCL. DIFFERENTIAL OIL)****A. Replace transaxle oil (M/T)**

- Remove the filler and drain plugs, and drain the oil.
- Reinstall the drain plug securely.

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MAINTENANCE - (5S-FE)



(c) Add new oil until it begins to run out of the filler hole.

Recommended transaxle oil:

Oil grade AN GL-3

Viscosity SAE 75W-90

Capacity:

2.6 liters (2.7 US qts, 2.3 Imp. qts)

In case the above oil grade is unavailable, use type A or B.

Type A:

Oil grade API GL-4

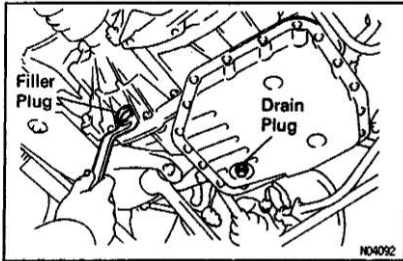
Viscosity SAE 75W-90

Type B:

oil grade AN GL-5

Viscosity SAE 75W-90

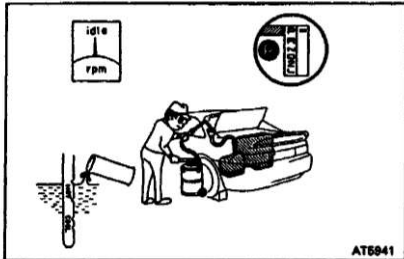
(d) Reinstall the filler plug securely.



B. Replace transaxle fluid (A/T)

(a) Using a 10 mm hexagon wrench, remove the drain plug and drain the fluid.

(b) Reinstall the drain plug securely.



(c) With the engine OFF, and new fluid through the dipstick tube.

Transmission fluid:

ATF DEXRON[®] II

Drain and refill capacity:

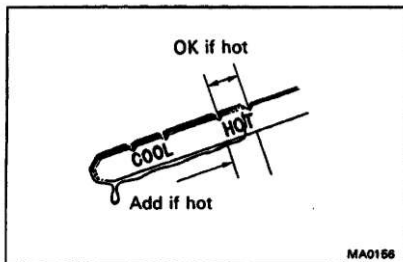
3.3 liters (3.6 US qts, 2.9 Imp. qts)

(d) Start the engine and shift the selector into all positions from "P" through "L", and then shift into "P".

(e) With the engine idling, check the fluid level. Add fluid up to the "COOL" level on the dipstick.

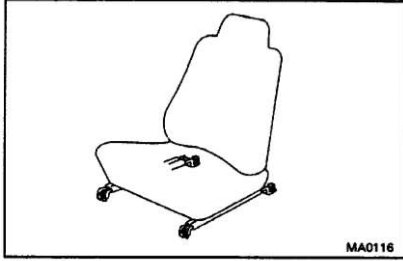
NOTICE: Do not over-fill. The transmission and differential are separate units.

(f) Recheck the fluid level with the normal temperature (70 – 80°C (158 – 176° F)) and add as necessary.



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MAINTENANCE - (5S-FE)

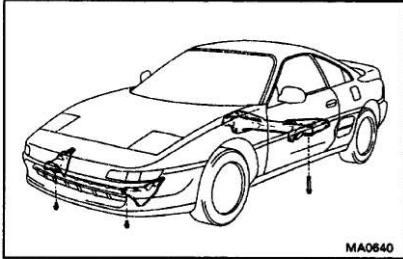


22. TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY

Tighten the following parts:

- Seat mount bolts

Torque: 37 N-m (375 kgf-cm, 27 ft-lbf)



Strut bar bracket-to-body mounting bolts

Torque: 80 N-m (820 kgf-cm, 59 ft-lbf)

Rear suspension lower crossmember-to-body mounting bolts

Torque: 113 N-m (1,150 kgf-cm, 83 ft-lbf)

23. FINAL INSPECTION

(a) Check the operation of the body parts:

- Hood
Auxiliary catch operates properly
Hood locks securely when closed
- Doors
Door lock operates properly
Doors close properly
- Luggage compartment door
Door lock operates properly
- Seats
Seat adjusts easily and locks securely in any position
Front seat back locks securely in any position
Folding-down rear seat backs lock securely

(b) Road test

- Check the engine and chassis for abnormal noises.
- Check that the vehicle does not wander or pull to one side.
- Check that the brakes work properly and do not drag.

(c) Be sure to deliver a clean car and especially check:

- Steering wheel
- Shift lever knob
- All switch knobs
- Door handles
- Seats

MAINTENANCE

(3S-GTE)**MAINTENANCE SCHEDULE
SCHEDULE A**

Maintenance operations: A = Check and adjust if necessary;
R = Replace, change or lubricate;
I = Inspect and correct or replace if necessary

CONDITIONS:

- Towing a trailer, using a camper or car top carrier.
- Repeated short trips less than 8 km (5 miles) and outside temperature remains below freezing.
- Extensive idling and/or low speed driving for long distances such as police, taxi or door-to-door delivery use.
- Operating on dusty, rough muddy or salt spread roads.

System	Service interval (Odometer reading or months, whichever comes first)	Maintenance services beyond 96,000 km (60,000 miles) should continue to be performed at the same intervals shown for each maintenance schedule.																	See page (item No.)
		km x 1,000	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	
	Maintenance items	Miles x 1,000	3.75	7.5	11.25	15	18.75	22.5	26.25	30	33.75	37.5	41.25	45	48.75	52.5	56.25	60	Months
ENGINE	Timing belt ⁽¹⁾																	R	MA-5 (item 1)
	Valve clearance																	A	MA-9 (item 12)
	Drive belts																		MA-5 (item 2)
	Engine oil*																		MA-7 (item 6)
	Engine oil filter*																		MA-7 (item 6)
	Engine coolant																		MA-7 (item 7)
FUEL	Exhaust pipes and mountings																		MA-8 (item 11)
	Air filter ^{(2)*}																		MA-6 (item 3, 4)
	Fuel lines and connections ⁽³⁾																		MA-8 (item 10)
	Fuel tank cap gasket																		MA-8 (item 9)
IGNITION	Spark plugs (Platinum tipped type)																		MA-6 (item 5)
EVAP	Charcoal canister																		MA-8 (item 8)
BRAKES	Brake pads and discs (Front and rear)																		MA-9 (item 14)
	Brake line pipes and hoses																		MA-9 (item 13)
CHASSIS	Steering linkage																		MA-10 (item 15)
	SRS airbag																		MA-11 (item 16)
	Drive shaft boots																		MA-11 (item 18)
	Ball joints and dust covers																		MA-12 (item 19)
	Transaxle and differential																		MA-12 (item 21)
	Steering gear housing oil ⁽⁴⁾																		MA-11 (item 17)
	Bolts and nuts on chassis and body ⁽⁵⁾																		MA-13 (item 22)

Mark indicates maintenance which is part of the warranty conditions for the Emission Control System. The warranty period is in accordance with the owner's guide or the warranty booklet. (: California specification vehicles)

- (1) Applicable to vehicles operated under conditions of extensive idling and/or low speed driving for a long distance such as police, taxi or door-to-door delivery use.
- (2) Applicable when operating mainly on dusty road. If not, apply SCHEDULE B.
- (3) Includes inspection of fuel tank band and vapor vent system.
- (4) Check for oil leaks from steering gear housing.
- (5) Applicable only when operating mainly on rough, muddy roads. The applicable parts are listed below. For other usage conditions, refer to SCHEDULE B.
 - Front and rear suspension member to cross body
 - Strut bar bracket to body bolts
 - Bolts for sheet installation

SCHEDULE B**CONDITIONS:** Conditions other than those listed for SCHEDULE A.

System	Service interval (Odometer reading or months, whichever comes first)	Maintenance service beyond 96,000 km (60,000 miles) should continue to be performed at the same intervals shown for each maintenance schedule.										See page (item No.)	
		km x 1,000	12	24	36	48	60	72	84	96	Months		
	Maintenance items	Miles x 1,000	7.5	15	22.5	30	37.5	45	52.5	60			
ENGINE	Valve clearance									A	A: Every 72 months	MA-9 (item 12)	
	Drive belts		I: First period, 96,000 km (60,000 miles) or 72 months. I: After that every 12,000 km (7,500 miles) or 12 months										MA-5 (item 2)
	Engine oil*		R: Every 8,000 km (5,000 miles) or 6 months										MA-7 (item 6)
	Engine oil filter*		R: Every 16,000 km (10,000 miles) or 12 months										MA-7 (item 6)
	Engine coolant		R: First period, 72,000 km (45,000 miles) or 36 months. R: After that every 48,000 (30,000 miles) or 24 months										MA-7 (item 7)
FUEL	Exhaust pipes and mountings					I				I	I: Every 36 months	MA-8 (item 11)	
	Air filter*					R				R	R: Every 36 months	MA-6 (item 4)	
	Fuel lines and connections ⁽¹⁾					I				I	I: Every 36 months	MA-8 (item 10)	
	Fuel tank cap gasket									R	R: Every 72 months	MA-8 (item 9)	
IGNITION	Spark plugs (Platinum tipped type)									R	R: Every 72 months	MA-6 (item 5)	
EVAP	Charcoal canister									I	I: Every 72 months	MA-8 (item 8)	
BRAKES	Brake pads and discs (Front and rear)			I		I		I		I	I: Every 24 months	MA-9 (item 14)	
	Brake line pipes and hoses			I		I		I		I	I: Every 24 months	MA-9 (item 13)	
CHASSIS	Steering linkage			I		I		I		I	I: Every 24 months	MA-10 (item 15)	
	SRS airbag		I: First period, 10 years. I: After that every 2 years.										MA-11 (item 16)
	Drive shaft boots			I		I		I		I	I: Every 24 months	MA-11 (item 18)	
	Ball joints and dust covers			I		I		I		I	I: Every 24 months	MA-12 (item 19)	
	Transaxle and differential ⁽²⁾			I		I		I		I	I: Every 24 months	MA-12 (item 20)	
	Steering gear housing oil ⁽³⁾			I		I		I		I	I: Every 24 months	MA-11 (item 17)	
	Bolts and nuts on chassis and body ⁽⁴⁾			I		I		I		I	I: Every 24 months	MA-13 (item 22)	

Mark indicates maintenance which is part of the warranty conditions for the Emission Control System. The warranty period is in accordance with the owner's guide or the warranty booklet. (: California specification vehicles)

(1) Includes inspection of fuel tank band and vapor vent system.

(2) Check for leakage.

(3) Check for oil leaks from steering gear housing.

(4) The applicable parts are listed below.

- Front and rear suspension member to cross body
- Strut bar bracket to body bolt
- Bolts for sheet installation

(5S-FE)**MAINTENANCE SCHEDULE****SCHEDULE A**

Maintenance operations: A = Check and adjust if necessary;
 R = Replace, change or lubricate;
 I = Inspect and correct or replace if necessary

CONDITIONS:

- Towing a trailer, using a camper or car top carrier.
- Repeated short trips less than 8 km (5 miles) and outside temperature remains below freezing.
- Extensive idling and/or low speed driving for long distances such as police, taxi or door-to-door delivery use.
- Operating on dusty, rough muddy or salt spread roads.

System	Service interval (Odometer reading or months, whichever comes first)	Maintenance services beyond 96,000 km (60,000 miles) should continue to be performed at the same intervals shown for each maintenance schedule.																		See page (item No.)	
		km x 1,000	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	Months		
	Maintenance items	Miles x 1,000	3.75	7.5	11.25	15	18.75	22.5	26.25	30	33.75	37.5	41.25	45	48.75	52.5	56.25	60			
ENGINE	Timing belt ⁽¹⁾																	R	-	MA-20 (item 1)	
	Valve clearance																	A	A: Every 72 months	MA-23 (item 12)	
	Drive belts		I: First period, 96,000 km (60,000 miles) or 72 months. I: After that every 12,000 km (7,500 miles) or 12 months																		MA-20 (item 2)
	Engine oil and oil filter*		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R: Every 6 months	MA-22 (item 6)
	Engine coolant		R: First period, 72,000 km (45,000 miles) or 36 months. R: After that every 48,000 (30,000 miles) or 24 months																		MA-22 (item 7)
	Exhaust pipes and mountings				I				I					I				I	I: Every 24 months	MA-23 (item 11)	
FUEL	Air filter ^{(2)*}		I	I	I	I	I	I	I	R	I	I	I	I	I	I	I	R	I: Every 6 months R: Every 36 months	MA-21 (item 3, 4)	
	Fuel lines and connections ⁽³⁾								I									I	I: Every 36 months	MA-23 (item 10)	
	Fuel tank cap gasket																	R	R: Every 72 months	MA-23 (item 9)	
IGNITION	Spark plugs (Platinum tipped type)																	R	R: Every 72 months	MA-21 (item 5)	
	Charcoal canister																	I	I: Every 72 months	MA-22 (item 8)	
BRAKES	Brake pads and discs (Front and rear)			I		I			I		I		I		I		I	I	I: Every 12 months	MA-24 (item 14)	
	Brake line pipes and hoses				I				I					I				I	I: Every 24 months	MA-23 (item 13)	
CHASSIS	Steering linkage		I		I			I		I		I		I		I		I	I: Every 12 months	MA-25 (item 15)	
	SRS airbag		I: First period, 10 years. I: After that every 2 years.																		MA-25 (item 16)
	Drive shaft boots		I		I			I		I		I		I		I		I	I: Every 12 months	MA-26 (item 18)	
	Ball joints and dust covers			I		I		I		I		I		I		I		I	I: Every 12 months	MA-26 (item 19)	
	Manual transaxle, automatic transaxle and differential					R				R				R				R	R: Every 24 months	MA-26 (item 21)	
	Steering gear housing oil ⁽⁴⁾				I				I					I				I	I: Every 24 months	MA-26 (item 17)	
	Bolts and nuts on chassis and body ⁽⁵⁾		I		I		I		I		I		I		I		I	I	I: Every 12 months	MA-28 (item 22)	

Mark indicates maintenance which is part of the warranty conditions for the Emission Control System. The warranty period is in accordance with the owner's guide or the warranty booklet. (: California specification vehicles)

(1) Applicable to vehicles operated under conditions of extensive idling and/or low speed driving for a long distance such as police, taxi or door-to-door delivery use.

(2) Applicable when operating mainly on dusty road. If not, apply SCHEDULE B.

(3) Includes inspection of fuel tank band and vapor vent system.

(4) Check for oil leaks from steering gear housing.

(5) Applicable only when operating mainly on rough, muddy roads. The applicable parts are listed below. For other usage conditions, refer to SCHEDULE B.

- Front and rear suspension member to cross body
- Strut bar bracket to body bolts
- Bolts for sheet installation

MA-18

MAINTENANCE - (5S-FE)

SCHEDULE B

CONDITIONS: Conditions other than those listed for SCHEDULE A.

System	Service interval (Odometer reading or months, whichever comes first)	Maintenance service beyond 96,000 km (60,000 miles) should continue to be performed at the same intervals shown for each maintenance schedule.												See page (item No.)	
		Maintenance items						Months							
		km x 1,000	12	24	36	48	60	72	84	96	A				
ENGINE	Valve clearance	Miles x 1,000	7.5	15	22.5	30	37.5	45	52.5	60	A		A: Every 72 months	MA-23 (item 12)	
	Drive belts		I: First period, 96,000 km (60,000 miles) or 72 months. I: After that every 12,000 km (7,500 miles) or 12 months												MA-20 (item 2)
	Engine oil and oil filter*		R	R	R	R	R	R	R	R	R	R	R: Every 12 months	MA-22 (item 6)	
	Engine coolant		R: First period, 72,000 km (45,000 miles) or 36 months. R: After that every 48,000 km (30,000 miles) or 24 months												MA-22 (item 7)
FUEL	Exhaust pipes and mountings					I						I	I: Every 36 months	MA-23 (item 11)	
	Air filter*					R						R	R: Every 36 months	MA-21 (item 4)	
	Fuel lines and connections ⁽¹⁾					I						I	I: Every 36 months	MA-23 (item 10)	
	Fuel tank cap gasket											R	R: Every 72 months	MA-23 (item 9)	
IGNITION	Spark plugs (Platinum tipped type)											R	R: Every 72 months	MA-21 (item 5)	
EVAP	Charcoal canister											I	I: Every 72 months	MA-22 (item 8)	
	Brake pads and discs (Front and rear)			I		I		I				I	I: Every 24 months	MA-24 (item 14)	
BRAKES	Brake line pipes and hoses			I		I		I				I	I: Every 24 months	MA-23 (item 13)	
	Steering linkage					I		I				I	I: Every 24 months	MA-25 (item 15)	
CHASSIS	SRS airbag		I: First period, 10 years. I: After that every 2 years.												MA-25 (item 16)
	Drive shaft boots			I		I		I				I	I: Every 24 months	MA-26 (item 18)	
	Ball joints and dust covers			I		I		I				I	I: Every 24 months	MA-26 (item 19)	
	Manual transaxle, automatic transaxle and differential ⁽²⁾					I		I				I	I: Every 24 months	MA-26 (item 20)	
	Steering gear housing oil ⁽³⁾			I		I		I				I	I: Every 24 months	MA-26 (item 17)	
	Bolts and nuts on chassis and body ⁽⁴⁾			I		I		I				I	I: Every 24 months	MA-26 (item 22)	

Mark indicates maintenance which is part of the warranty conditions for the Emission Control System. The warranty period is in accordance with the owner's guide or the warranty booklet. (: California specification vehicles)

(1) Includes inspection of fuel tank band and vapor vent system.

(2) Check for leakage.

(3) Check for oil leaks from steering gear housing.

(4) The applicable parts are listed below.

- Front and rear suspension member to cross body
- Strut bar bracket to body bolt
- Bolts for sheet installation

MA-4

MAINTENANCE - (3S-GTE)

PREPARATION EQUIPMENT

MA006-01

Belt tension gauge	
Dial indicator or dial indicator with magnetic base	
Micrometer	
Mirror	Brake hose
Steel square	
Tachometer	
Torque wrench	
Vernier calipers	

COOLANT

MA00A-01

Item	Capacity	Classification
Engine coolant (w/ Heater)	13.6 liters (14.4 US qts, 12.0 Imp. qts)	Ethylene-glycol base

LUBRICANT

MA00C-01

Item	Capacity	Classification
Engine oil Drain and refill w/ Oil filter change w/o Oil filter change	3.9 liters (4.1 US qts, 3.4 Imp. qts) 3.6 liters (3.8 US qts, 3.2 Imp. qts)	API grade SG Energy-Conserving n multigrade and recommended viscosity oil
Standard Type Manual transaxle oil (w/ Differential oil)	4.2 liters (4.4 US qts, 3.7 Imp. qts)	API GL-3, GL-4 or GL-5 SAE 75W-90 or 80W-90
Viscous Coupling LSD Type Manual transaxle oil (w/ Differential oil)	3.9 liters (4.1 US qts, 3.4 Imp. qts)	API GL-3, GL-4 or GL-5 SAE 75W-90 or 80W-90

PREPARATION EQUIPMENT

MA008-01

Belt tension gauge	
Dial indicator or dial indicator with magnetic base	
Micrometer	
Mirror	Brake hose
Steel square	
Tachometer	
Torque wrench	
Vernier calipers	

COOLANT

MA00A-01

Item	Capacity	Classification
Engine coolant (w/ Heater)	13.0 liters (13.7 US qts, 11.0 Imp. qts)	Ethylene-glycol base

LUBRICANT

MA00C-01

Item	Capacity	Classification
Engine oil Drain and refill w/ Oil filter change w/o Oil filter change	4.2 liters (4.4 US qts, 3.7 Imp. qts) 3.8 liters (4.0 US qts, 3.3 Imp. qts)	API grade SG Energy-Conserving II multigrade and recommended viscosity oil
Manual transaxle oil (Incl. Differential oil)	2.6 liters (2.7 US qts, 2.3 Imp. qts)	API GL-3 SAE 75W-90 In case the above is unavailable API GL-4 or GL-5 SAE 75W-90
Automatic transaxle fluid Drain and refill	3.3 liters (3.6 US qts, 2.9 Imp. qts)	ATF DEXRON® 11

MA-16

MAINTENANCE - (3S - GTE)

SERVICE SPECIFICATIONS

SERVICE DATA

MA016-01

Drive belt tension			
Alternator	New belt		120 ± 20 lbf
Alternator	Used belt		104 ± 20 lbf
A/C compressor	New belt		160 ± 25 lbf
A/C compressor	Used belt		100 ± 20 lbf
Spark plug	Recommended spark plug	ND	PK20R8
Spark plug	Recommended spark plug	NGK	BKR6EP8
Spark plug	Correct electrode gap		0.8 mm (0.0031 in.)
Firing order			1 - 3 - 4 - 2
Valve clearance	Intake		0.15 - 0.25 mm (0.006 - 0.010 in.)
Valve clearance	Exhaust		0.28 - 0.38 mm (0.011 - 0.015 in.)
Front and rear brake			
Pad thickness	Minimum		1.0 mm (0.039 in.)
Disc thickness	Front	Minimum	28.0 mm (1.102 in.)
Disc thickness	Rear	Minimum	21.0 mm (0.827 in.)
Disc runout	Front	Maximum	0.07 mm (0.0028 in.)
Disc runout	Rear	Maximum	0.10 mm (0.0039 in.)
Front axle and suspension			
Ball joint vertical play	Maximum		0 mm (0 in.)
Steering wheel freeplay	Maximum		30 mm (1.18 in.)

TORQUE SPECIFICATIONS

MA009-02

Pert tightened	N-m	kgf-cm	ft-lbf
Seat mounting bolts	37	375	27
Strut bar bracket-to-body mounting bolts	80	820	59
Rear suspension lower crossmember-to-body mounting bolts	113	1,150	83

SERVICE SPECIFICATIONS

MA002-08

SERVICE DATA

Drive belt tension			
Alternator	New belt		120 ± 20 lbf
Alternator	Used belt		104 ± 20 lbf
A/C compressor	New belt		160 ± 25 lbf
A/C compressor	Used belt		100 ± 20 lbf
Spark plug	Recommended spark plug	ND	PK20R11
Spark plug	Recommended spark plug	NGK	BKR6EP-11
Spark plug	Correct electrode gap		1.1 mm (0.0043 in.)
Firing order			1 - 3 - 4 - 2
Valve clearance	Intake		0.19 - 0.29 mm (0.007 - 0.011 in.)
Valve clearance	Exhaust		0.28 - 0.38 mm (0.011 - 0.015 in.)
Front and rear brake			
Pad thickness	Minimum		1.0 mm (0.039 in.)
Disc thickness	Front	Minimum	24.0 mm (0.787 in.)
Disc thickness	Rear	Minimum	15.0 mm (0.590 in.)
Disc runout	Front	Maximum	0.07 mm (0.0028 in.)
Disc runout	Rear	Maximum	0.10 mm (0.0039 in.)
Front axle and suspension			
Bell joint vertical play	Maximum		0 mm (0 in.)
Steering wheel freeplay	Maximum		30 mm (1.18 in.)

TORQUE SPECIFICATIONS

MA004-08

Part tightened	N-m	kgf-cm	ft-lbf
Seat mounting bolts	37	375	27
Strut bar bracket-to-body mounting bolts	80	820	59
Rear suspension lower crossmember-to-body mounting bolts	113	1,150	83