
MAINTENANCE

MAINTENANCE SCHEDULE

SCHEDULE A

CONDITIONS:

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

Maintenance operations: A = Check and adjust if necessary;

R = Replace, change or lubricate;

I = Inspect and correct or replace if necessary

System	Service Interval (Odometer reading or months, whichever comes first) Maintenance items	Maintenance services beyond 60,000 miles (96,000 km) should continue to be performed at the same intervals shown for each maintenance schedule.																	See page (item No.)
		Miles x 1,000 km x 1,000	3.75 6	7.5 12	11.25 18	15 24	18.75 30	22.5 36	26.25 42	30 48	33.75 54	37.5 60	41.25 66	45 72	48.75 78	52.5 84	56.25 90	60 96	
ENGINE	Timing belt ⁽¹⁾																	R	MA-4 (item 1)
	Valve clearance																	A	MA-7 (item 12)
	Drive belts																	A	MA-4 (item 2)
	Engine oil and oil filter		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	MA-6 (item 6)
	Engine coolant																	R	MA-6 (item 6)
FUEL	Exhaust pipes and mountings																	I	MA-7 (item 11)
	Air filter ⁽²⁾																	I	MA-5 (item 3.4)
	Fuel lines and connections																	I	MA-5 (item 3.4)
IGNITION	Fuel tank cap gasket																	R	MA-6 (item 9)
	Spark plugs	35-PI engine 4*																R	MA-5 (item 5)
EVAP	Spark plugs (platinum tipped)	2VZ-PI engine																R	MA-5 (item 5)
	Charcoal canister																	R	MA-8 (item 8)
BRAKES	Brake linings and drums																	I	MA-8 (item 14)
	Brake pads and discs (Front and rear)																	I	MA-8 (item 15)
	Brake line pipes and hoses																	I	MA-7 (item 13)
CHASSIS	Steering linkage																	I	MA-8 (item 16)
	Drive shaft boots																	I	MA-9 (item 18)
	Ball joints and dust covers																	I	MA-9 (item 18)
	Manual transaxle, automatic transaxle and differential																	I	MA-9 (item 19)
	Steering gear housing oily																	R	MA-10 (item 20)
	Bolts and nuts on chassis and body																	I	MA-14 (item 22)

Maintenance services indicated by a star (*) or asterisk (*) are required under the terms of the Emission Control Systems Warranty. See Owner's Guide or Warranty Booklet for complete warranty information.

* For vehicles sold in California

* For vehicles sold outside California

- (1) Applicable to vehicles operated under conditions of extensive idling and /or low speed driving for long distances such as police, taxi or door-to-door delivery use.
- (2) Applicable when operating mainly on dusty roads. If not, follow SCHEDULE B.
- (3) Includes inspection of fuel tank band and vapor vent system.
- (4) Also applicable to lining drum for parking brake.
- (5) Check for leakage.
- (6) Check for oil leaks from steering gear housing.
- (7) 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 body
- 0 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 items	Maintenance service beyond 60,000 miles (96,000 km) should continue to be performed at the same intervals shown for each maintenance schedule.										See page (item No.)
		Miles x 1,000 km x 1,000	7.5 12	15 24	22.5 36	30 48	37.5 60	45 72	52.5 84	60 96	Months	
	Valve clearance									A	A: Every 72 months	MA-7 (item 12)
ENGINE	Drive belts	I: First period, 60,000 miles (96,000 km) or 72 months. I: After that every 7,500 miles (12,000 km) or 12 months										MA-4 (item 2)
	Engine oil and oil filter	R	R	R	R	R	R	R	R	R	R: Every 12 months	MA-6 (item 7)
	Engine coolant	R: First period, 45,000 miles (72,000 km) or 36 months. R: After that every 30,000 miles (48,000 km) or 24 months										MA-6 (item 7)
	Exhaust pipes and mountings				I					I	I: Every 36 months	MA-7 (item 11)
FUEL	Air filter				R					R	I: Every 36 months	MA-5 (item 4)
	Fuel lines and connections (31)				I					I	I: Every 36 months	MA-7 (item 10)
	Fuel tank cap gasket									R	R: Every 72 months	MA-6 (item 9)
IGNITION	Spark plugs	3S-IE engine** 2VZ-FE engine				R				R	R: Every 36 months	MA-5 (item 5)
	Spark plugs (platinum tipped)									R	R: Every 72 months	
EVAP	Charcoal canister									I	I: Every 72 months	MA-6 (item 8)
BRAKES	Brake linings and drums (4)		I		I		I			I	I: Every 24 months	MA-8 (item 14)
	Brake pads and discs (Front and rear)		I		I		I			I	I: Every 24 months	MA-8 (item 15)
CHASSIS	Brake line pipes and hoses		I		I		I			I	I: Every 24 months	MA-7 (item 13)
	Steering linkage		I		I		I			I	I: Every 24 months	MA-8 (item 16)
	Drive shaft boots		I		I		I			I	I: Every 24 months	MA-9 (item 18)
	Ball joints and dust covers		I		I		I			I	I: Every 24 months	MA-9 (item 19)
	Manual transaxle, automatic transaxle and differential (3)		I		I		I			I	R: Every 24 months	MA-10 (item 20)
	Steering gear housing oil (1s)		I		I		I			I	I: Every 24 months	MA-9 (item 17)
	Bolts and nuts on chassis and body (17)		I		I		I			I	I: Every 24 months	MA-14 (item 22)

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Booklet for complete warranty information.

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* For vehicles sold outside California

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

(2) Also applicable to drum lining for parking brake.

(3) Check for leakage.

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

(5) The applicable part are listed below

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

MA-16

MAINTENANCE — General Maintenance

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. TIRE ROTATION

It is recommended that tires be rotated every 7,500 miles (12,000 km).

4. WINDSHIELD WIPER BLADES

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

5. 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.

6. DOORS AND ENGINE HOOD

- (a) Check that all doors including the trunk lid and back door 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**7. LIGHTS**

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

8. WARNING LIGHTS AND BUZZERS

Check that all warning lights and buzzers function properly.

9. HORN

Check that it is working.

10. WINDSHIELD GLASS

Check for scratches, pits or abrasions.

11. WINDSHIELD WIPER AND WASHER

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

12. WINDSHIELD DEFROSTER

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

13. REAR VIEW MIRROR

Check that it is mounted securely.

14. SUN VISORS

Check that they move freely and are mounted securely.

15. 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.

16. SEATS

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

17. 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.

18. ACCELERATOR PEDAL

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

19. CLUTCH PEDAL (See page CL-3)

Check the pedal for smooth operation.

Check that the pedal has the proper freeplay.

20. BRAKE PEDAL (See page BR-6)

- (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.

21. BRAKES

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

22. PARKING BRAKE (See page BR-8)

- (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.

23. AUTOMATIC TRANSMISSION PARK MECHANISM

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

UNDER HOOD**24. WINDSHIELD WASHER FLUID**

Check that there is sufficient fluid in the tank.

25. ENGINE COOLANT LEVEL

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

26. RADIATOR AND HOSES

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

27. 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 is low, add distilled water only.

28. 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.

29. ENGINE DRIVE BELTS

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

30. ENGINE OIL LEVEL

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

31. POWER STEERING FLUID LEVEL

Check the level.

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

32. 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 or 158 – 176°F).

NOTE: 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.

33. 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.

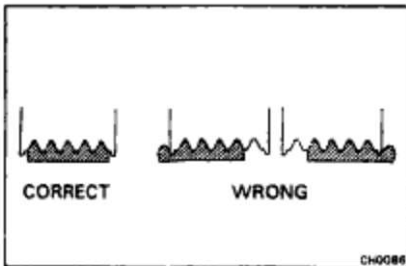
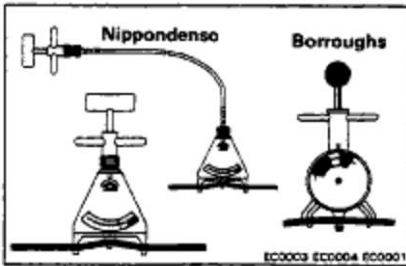
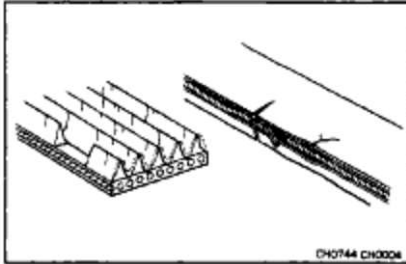
MAINTENANCE OPERATIONS

ENGINE

Cold Engine Operations

1. REPLACE TIMING BELT

- (a) Remove the timing belt.
 - 3S-FE (See pages EM-23 to 26)
 - 2VZ-FE (See pages EM-34 to 39)
- (b) Install the timing belt.
 - 3S-FE (See pages EM-29 to 33)
 - 2VZ-FE (See pages EM-42 to 47)



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 drive belt tension.

Belt tension gauge:

Nippondenso BTG-20 (95506-00020)

Borroughs NO.BT-33-73F

Drive belt tension:

Alternator (3S-FE)

w/ A/C New belt 175 ± 5 lb

Used belt 130 ± 10 lb

w/o A/C New belt 125 ± 25 lb

Used belt 95 ± 20 lb

Alternator (2VZ-FE) New belt 175 ± 5 lb

Used belt 115 ± 20 lb

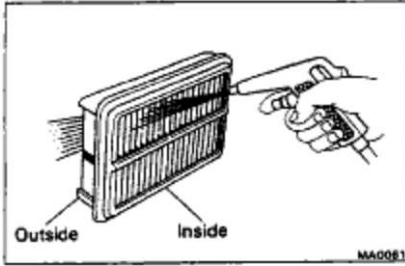
PS pump New belt 125 ± 25 lb

Used belt 80 ± 20 lb

If necessary, adjust the drive belt tension.

HINT:

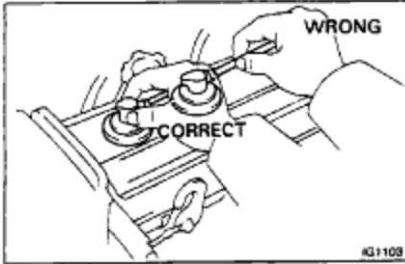
- "New belt" refers to a belt which has been used 5 minutes or less on a running engine.
- "Used belt" refers to a belt which has been used on a running engine for 5 minutes or more.
- After installing the belt, check that it fits properly in the ribbed grooves.
- Check by hand to confirm that the belt 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**

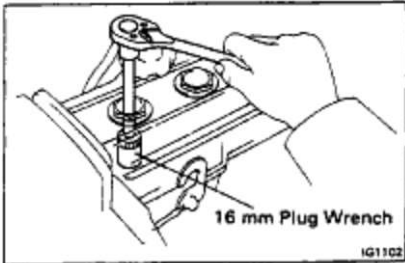
- (a) Visually check that the air cleaner element is not excessively, damaged or oily.
If necessary, replace the air cleaner element.
- (b) Clean the element with compressed air.
First blow from the inside thoroughly, then blow off the outside of the element.

4. REPLACE AIR FILTER

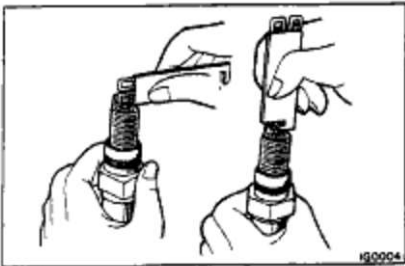
Replace the air cleaner element with a new one.

**5. REPLACE SPARK PLUGS**

- (a) Disconnect the spark plug cords at the rubber boot. DO NOT pull on the cords.



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



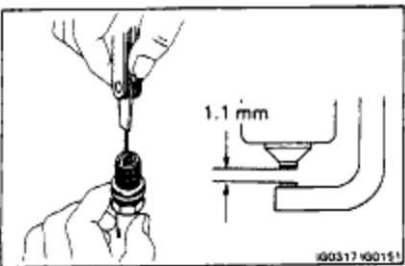
- (c) PS-FE)

Adjust the electrode gap of new spark plugs.

Correct electrode gap: 1.1 mm (0.043 in.)

Recommended spark plugs: ND Q1 6R-U1 1

NGK BCPR5EY11



- (d) 2VZ-FE)

Check the electrode gap of new spark plugs.

Correct electrode gap: 1.1 mm (0.043 in.)

Recommended spark plugs: ND PQ20R

NGK BCPR6EP11

HINT: 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.

6. REPLACE ENGINE OIL AND OIL FILTER(See page [LU-7](#))

Oil grade: API grade SG, multigrade, fuel-efficient and recommended viscosity oil

Drain and refill with oil filter change capacity:

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

7. REPLACE ENGINE COOLANT(See page [CO-4](#))

Use a good brand of ethylene-glycol base coolant, mixed according to the manufacturer's instructions.

Coolant capacity (w/ Heater):

3S-FE M/T 6.4 liters (6.8 US qts, 5.6 Imp. qts)

A/T (2WD)

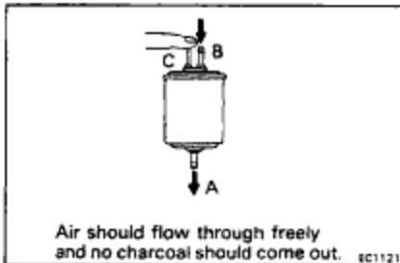
6.3 liters (6.7 US qts, 5.5 Imp. qts)

A/T (4WD)

6.8 liters (7.2 US qts, 6.0 Imp. qts)

2VZ-FE M/T 9.5 liters (10.0 US qts, 8.4 Imp. qts)

A/T 9.4 liters (9.9 US qts, 8.3 Imp. qts)

**8. INSPECT CHARCOAL CANISTER**

(a) Remove the canister dust cover.

M Disconnect the hoses from the charcoal canister.

Label hoses for correct installation.

(c) Plug pipe C with your finger, and blow compressed air (3kg/cm², 43 psi or 294 kPa) through pipe B (fuel tank side).

- Check that air comes out of the bottom pipe A without resistance.

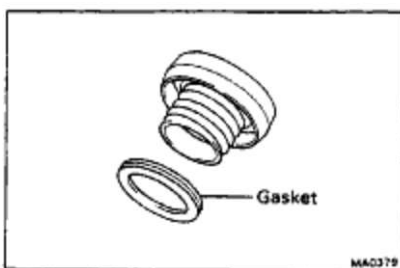
- Check that no activated charcoal comes out.

If necessary, replace the charcoal canister.

NOTICE: Do not attempt to wash the charcoal.

(d) Reconnect the hoses to the charcoal canister.

(e) Reinstall the canister dust cover.

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

(a) Remove the old gasket (O-ring) from the tank cap. Do not damage the cap.

(b) Install a new gasket by hand.

(c) Check the cap for damage or cracks.

(d) Install 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

3S-FE (See page [EM-11](#))

2VZ-FE (See page [EM-15](#))

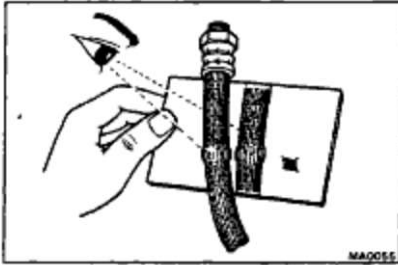
Valve clearance (Cold):

3S-FE Intake 0.19 – 0.29 mm
(0.007 – 0.011 in.)

Exhaust 0.28 0.38 mm
(0.011 0.015 in.)

2VZ-FE Intake 0.13 – 0.23 mm
(0.005 – 0.009 in.)

Exhaust 0.27 – 0.37 mm
(0.011 – 0.015 in.)

**BRAKES****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

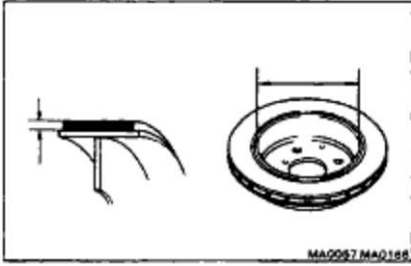
(b) Check all clamps for tightness and connections for leakage.

(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.

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MAINTENANCE — Maintenance Operations

**14. INSPECT BRAKE LININGS AND DRUMS**

Drum brake (See page BR-31)

Disc brake (See page BR-47)

(a) Check the lining-to-drum contact condition and lining wear.

Minimum lining thickness: 1.0 mm (0.0039 in.)

(b) Check the brake drums for scoring or wear.

Maximum drum inside diameter:

Drum brake 230.6 mm (9.079 in.)

Disc brake 171.0 mm (6.732 in.)

(c) Clean the brake parts with a damp cloth.

HINT: Do not use compressed air to clean the brake parts.

(d) Settle the parking brake shoes and drum. When performing the road test in item 23, do the following:

- Drive the vehicle at approx. 50 km/h (30 mph) on a safe, level and dry road.
- With the parking brake release button pushed in, pull on the lever with 9 kg (20 lb, 88 N) of force.
- Drive the vehicle for approx. m (1 /4 mile) in this condition.
- Repeat this procedure 2 or 3 times.
- Check parking lever travel.

If necessary, adjust the parking brake.

15. INSPECT BRAKE PADS AND DISCS

Front (See page BR-26)

Rear (See page BR-42)

(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.

Minimum disc thickness:

Front 24.0 mm (0.945 in.)

Rear 9.0 mm (0.354 in.)

Maximum disc runout:

Front 0.07 mm (0.0028 in.)

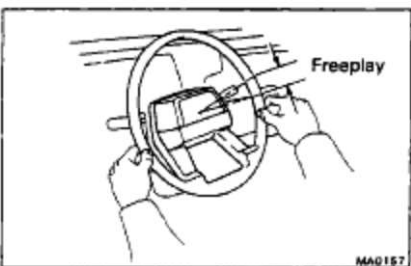
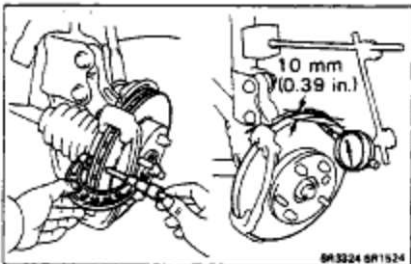
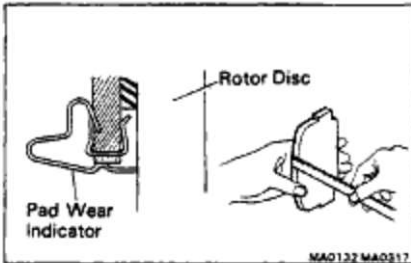
Rear 0.15 mm (0.0059 in.)

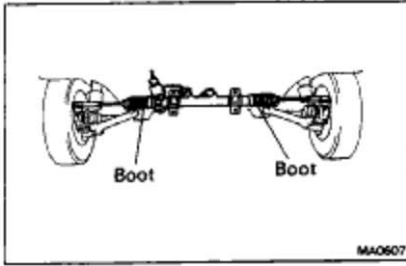
CHASSIS**16. INSPECT STEERING LINKAGE**

(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.





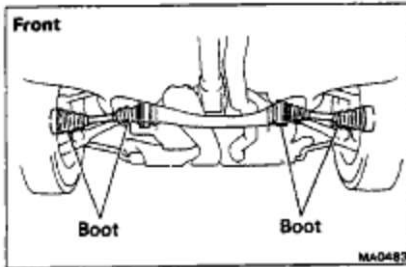
(b) Check the steering linkage for looseness or damage.

Check that:

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

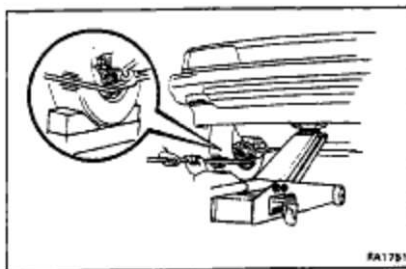
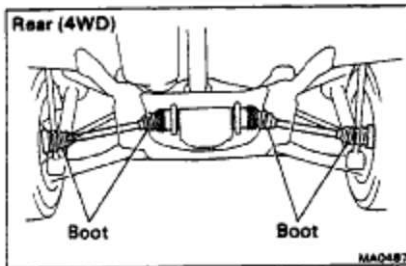
17. INSPECT STEERING GEAR HOUSING OIL

Check the steering gear box for oil leakage.



18. INSPECT FRONT AND REAR DRIVE SHAFT BOOTS

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



19. INSPECT BALL JOINTS AND DUST COVERS

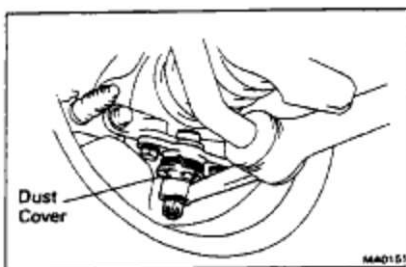
(a) Inspect the ball joints for excessive looseness.

- 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 springs. Place stands under the vehicle for safety.
- Check that the front wheels are in a straight forward position, and block them with chocks.
- Using a lever, pry up the end of the lower arm, and check the amount of play.

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

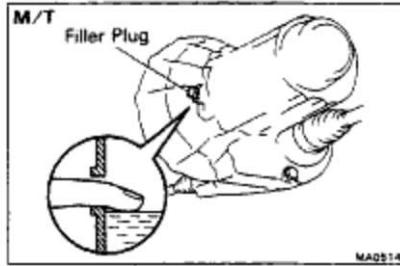
If there is play, replace the ball joint.

(b) Check the dust cover for damage.



MA-10

MAINTENANCE — Maintenance Operations



20. CHECK TRANSAXLE, TRANSFER AND DIFFERENTIAL OIL (FLUID)

A. (M/T)

Check manual transaxle oil (fluid)

- Visually check the transaxle for oil (fluid) leakage.
If leakage is found, check for cause and repair.
- Remove the filler plug and feel inside the hole with your finger. Check that the oil (fluid) comes to within 5 mm (0.20 in.) of the bottom edge of the filler hole.
If the level is low, add oil (fluid) until it begins to run out the filler hole.

Transaxle fluid:

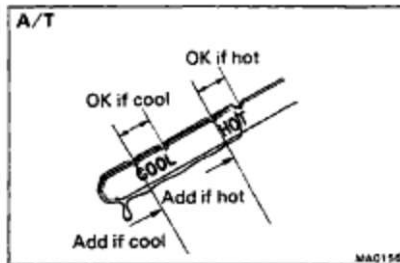
2WD (3S-FE) See step 21 (A)

Transaxle oil:

2WD (2VZ-FE) See step 21 (B)

Transaxle oil (Incl. transfer):

4WD (3S-FE) See step 21 (C)



B. (A/T)

Check automatic transaxle fluid

- Visually check the transaxle for fluid leakage.
If leakage is found, check for cause and repair.
- (Transmission (2WD))
Check the fluid level
If the level is low, add fluid.

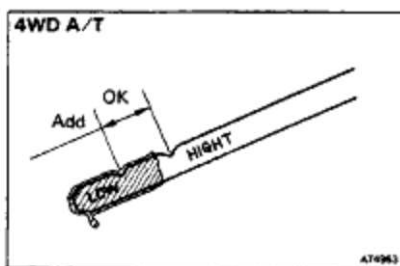
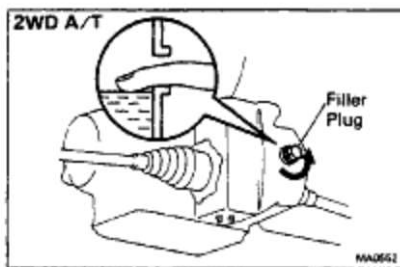
Transmission fluid: See step 21 (D)

- (Transaxle (4WD))
Check the fluid level
If the level is low, add fluid.

Transaxle fluid: See step 21 (E)

- (Front Differential (2WD))
Remove the filler plug and feel inside the hole with your finger. Check that the fluid comes to within 5 mm (0.20 in.) of the bottom edge of the filler hole.
If the level is low, add fluid until it begins to run out the filler hole.

Differential fluid: See step 21 (D)

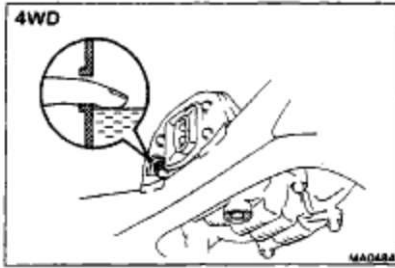


C. (4WD A/T) .

Check transfer oil

- Visually check the transaxle for oil leakage.
If leakage is found, check for cause and repair.
- Check the oil level
If the level is low, add oil.

Transfer oil: See step 21 (F)

**D. (4WD)****Check Rear differential oil**

- (a) Visually check the differential for oil leakage.
If leakage is found, check for cause and repair.
- (b) Remove the filler plug and feel inside the hole with your finger. Check that the oil comes to within 5 mm (0.20 in.) of the bottom edge of the filler hole.
If the level is low, add oil until it begins to run out the filler hole.

Differential oil: See step 21 (G)

21. REPLACE TRANSAXLE, TRANSFER AND DIFFERENTIAL OIL (FLUID)

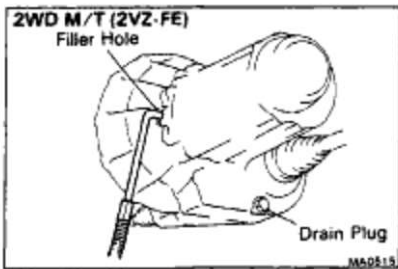
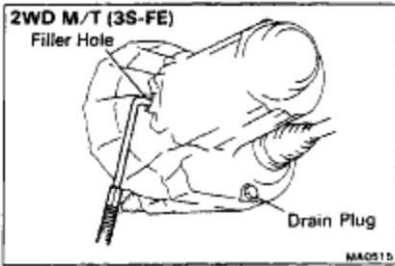
A. (2WD M/T (3S-FE))**Replace transaxle fluid**

- (a) Remove the engine under cover.
- (b) Remove the filler and drain plugs, and drain the fluid.
- (c) Reinstall the drain plug securely.
- (d) Add new fluid until it begins to run out of the filler hole.

Transaxle fluid: ATF DEXRON®II

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

- (e) Reinstall the filler plug securely.
- (f) Reinstall the engine under cover.

**6. (2WD M/T (2vZ-FE))****Replace transaxle oil**

- (a) Remove the engine under cover.
- (b) Remove the filler and drain plugs, and drain the oil.
- (c) Reinstall the drain plug securely.
- (d) Add new oil until it begins to run out of the filler hole.

Transaxle oil:

Oil grade API GL-4 or GL-5

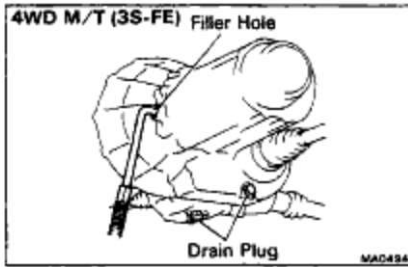
Viscosity SAE 75W-90 or 80W-90

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

- (e) Reinstall the filler plug securely.
- (f) Reinstall the engine under cover.

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MAINTENANCE — Maintenance Operations

**C. (4WD M/T (3S-FE))****Replace transaxle (incl. transfer) oil**

- (a) Remove the engine under cover.
 - (b) Remove the filler and drain plugs, and drain the oil.
 - (c) Reinstall the drain plug securely.
 - (d) Add new oil until it begins to run out of the filler hole.
- Transaxle oil: Transaxle oil E50 (08885-80206) or equivalent

Recommended transaxle oil:

Oil grade API GL-5

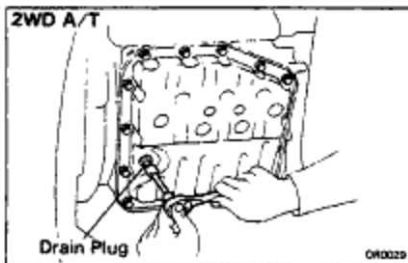
Viscosity SAE 75W-90 or 80W-90

Above -18°C (0°F) SAE 90

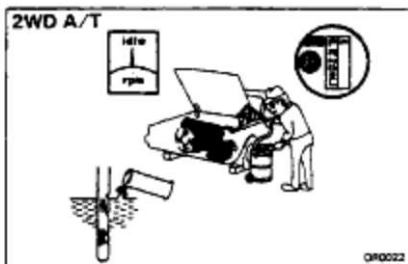
Below -18°C (0°F) SAE 80W

Capacity: 5.0 liters (5.3 US qts, 4.4 Imp. qts)

- (e) Reinstall the filler plug securely.
- (f) Reinstall the engine under cover.

**D. (2WD A/T)****Replace transaxle fluid (Transmission)**

- (a) Remove the engine under cover.
- (b) Using a 10 mm hexagon wrench, remove the drain plug and drain the fluid.
- (e) Reinstall the drain plug securely.



- (d) with the engine OFF, add new fluid through the dipstick tube.

Transmission fluid: **ATF DEXRON®II**

Drain and refill capacity: 2.5 liters

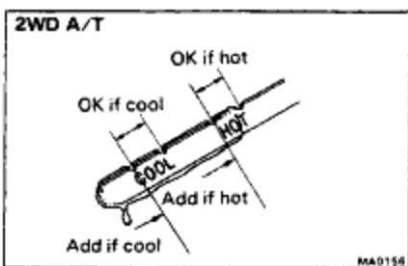
(2.6 us qts, 2.2 Imp. qts)

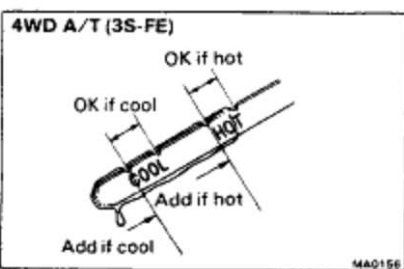
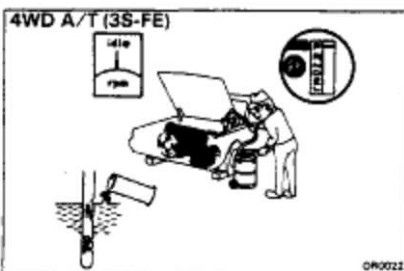
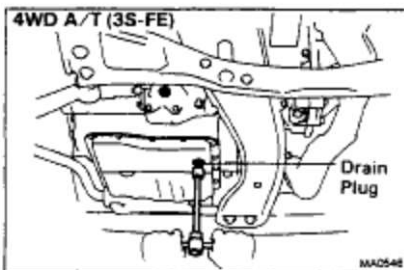
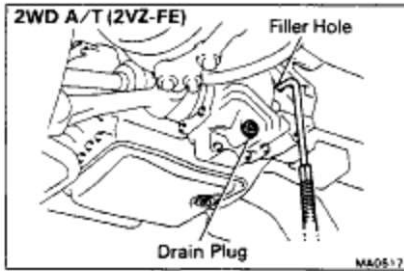
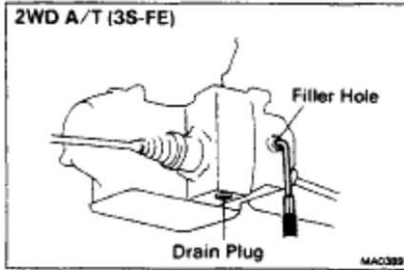
- (e) Start the engine and shift the selector into all positions from "I" through "L", and then shift into "P".
- (f) With the engine idling, check the fluid level. Add fluid up to the "COOL" level on the dipstick.

NOTICE: Do not overfill. The transmission and differential are separate units.

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

- (h) Reinstall the engine under cover.



**(Front Differential)**

- Remove the engine under cover.
- Using a 10 mm hexagon wrench, remove the drain plug and drain the fluid.
- Reinstall the drain plug securely.
- Add new fluid until it begins to run out of the filler hole.

Transaxle fluid: ATF DEXRON®II

Capacity: 3S-FE 1.6 liters
(1.7 US qts, 1.4 Imp. qts)
2VZ-FE 1.0 liters
(1.1 US qts, 0.9 Imp. qts)

- Reinstall the filler plug securely.
- Reinstall the engine under cover.

E. (4WD A/T (3S-FE))**Replace transaxle fluid**

- Remove the engine under cover.
- Using a 10 mm hexagon wrench, remove the drain plugs and drain the fluid.
- Reinstall the drain plug securely.

- With the engine OFF, add new fluid through the dipstick tube.

Transaxle fluid: ATF Type T (08886-08405) or equivalent

Drain and refill capacity:

3.5 liters (3.7 US dts, 3.0 Imp. qts)

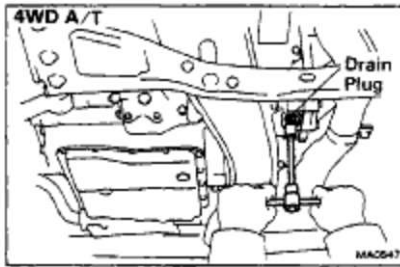
- Start the engine and shift the selector into all positions from "P" through "L", and then shift into "P".
- With the engine idling, check the fluid level. Add fluid up to the "COOL" level on the dipstick.

NOTICE: Do not overfill.

- Recheck the fluid level with the normal temperature (70-80°C (158-176°F)) and add as necessary.
- Reinstall the engine under cover.

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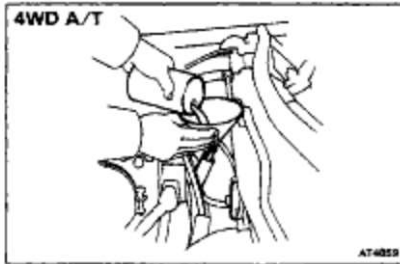
MAINTENANCE — Maintenance Operations



F. (4WD A/T)

Replace transfer oil

- (a) Remove the engine under cover.
- (b) Using a 10 mm hexagon wrench, remove the drain plug and drain the oil.
- (c) Reinstall the drain plug securely.



- (d) Add new oil through the dipstick tube.

Transaxle oil: Transaxle oil E50 (08885-80206) or equivalent

Recommended transaxle oil:

Oil grade API GL-5

Viscosity SAE 75W-90 or 80W-90

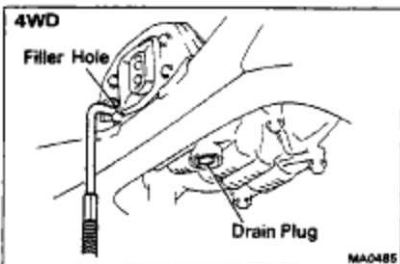
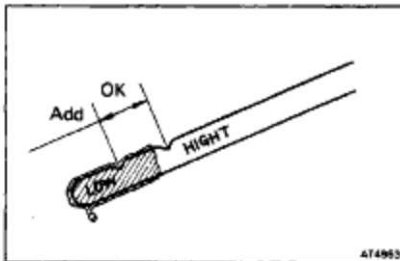
Above -18°C (0°F) SAE 90

Below -18°C (0°F) SAE 80W

Capacity: 0.7 liters (0.74 US qts, 0.62 Imp. qts)

- (e) Check the oil level and add as necessary.

M Reinstall the engine under cover.



G. (4WD)

Replace rear 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.

Rear differential oil:

Oil grade API GL-5 hypoid gear oil

Viscosity Above -18°C (0°F) SAE 90

Below -18°C (0°F) SAE 80W-90

Capacity: 1.1 liters (1.2 US qts, 1.0 Imp. qts)

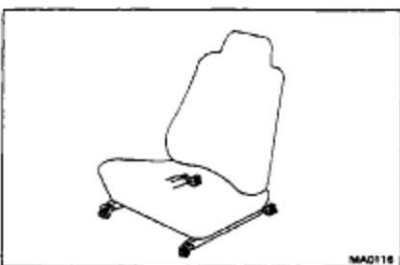
- (d) Reinstall the filler plug securely.

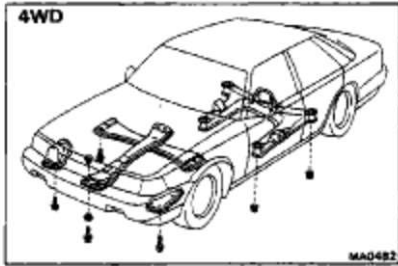
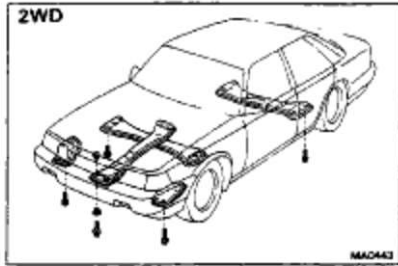
22. TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY

Tighten the following parts:

- Front seats mount bolts

Torque: 375 kg-cm (27 ft-lb, 37 N-m)





- Strut/stabilizer bar bracket-to-body mount bolts (LH and RH)
Torque: 620 kg-cm (45 ft-lb, 61 N-m)
- Engine mounting center member-to-body mount bolts
Torque: 400 kg-cm 129 ft-lb, 39 N-m)
- Front suspension lower cross member-to-body mount bolts
Torque: 2,110 kg-cm (153 ft-lb, 206 N-m)
- Rear suspension lower crossmember-to-body mount bolts
Torque: 2WD 710 kg-cm (51 ft-lb, 70 N-m)
4WD 1,620 kg-cm (117 ft-lb, 159 N-m)

23. FINAL INSPECTION

(a) Check the operation of the body parts:

- Hood
Auxiliary catch operation properly
Hood locks securely when closed
- Front and rear doors
Door locks operate properly
Doors close properly
- Luggage compartment door and back door
Door sock 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.
- Perform bedding down of the parking brake shoes and drum.
(See page [MA-8](#))

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

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