MAINTENANCE

GENERAL NOTES:

- **The maintenance schedule for the vehicle consists of separate A and B schedule which are applicable depending on the conditions the vehicle is used in.**
  Confirm the vehicle's usage conditions, select the appropriate schedule and service the vehicle accordingly.
- **Every service item in the periodic maintenance list must be performed.**
- **Next to the columns of periods in the schedule, reference pages have been added for easy access to service data and procedures necessary for each position.**
- **Periodic maintenance service must be performed according to whichever interval in the periodic maintenance list occurs first, the odometer reading (miles or km) or the time interval (months).**
- **Maintenance services after the last period should be performed at the same interval as before unless otherwise noted.**
- **Failure to do even one item can cause the engine to run poorly and increase exhaust emissions.**

MAINTENANCE SCHEDULE

SCHEDULE A

M6308-01

Maintenance operation: 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.
- Operating on dusty, rough, muddy or salt spread roads.
- Repeat short trips of less than 5 miles (8 km) with outside temperatures remain below freezing.
- Extensive idling and/or low speed driving for long distance, such as police, taxi or door-to-door delivery use.

System	Service interval (Use 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 × 1,000	1	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
	km × 1,000	1.6	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	
ENGINE	Timing belt (1)																	R	–	MA-5 (Item 1)
	Valve clearance																	A	A: Every 72 months	MA-8 (Item 12)
	Drive belts	I: First period 60,000 miles or 72 months. I: After that every 7,500 miles or 12 months																		MA-5 (Item 2)
	Engine oil and oil filter *		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		R: Every 6 months	MA-7 (Item 6)
	Engine coolant	R: First period 45,000 miles or 36 months. R: After that every 30,000 miles or 24 months																		MA-7 (Item 7)
	Exhaust pipes and mountings					I				I				I				I	I: Every 24 months	MA-8 (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-6 (Item 3)
	Fuel line and connections (3)									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 linings and drums (4)			I		I		I		I		I		I		I		I	I: Every 12 months	MA-10 (Item 14)
	Brake pads and discs (Front and rear)			I		I		I		I		I		I		I		I	I: Every 12 months	MA-9 (Item 14)
	Brake fluid (5)	I				I				R				I				R	R: Every 36 months	MA-10 (Item 16)
	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		I		I		I	I: Every 12 months	MA-10 (Item 17)
	SRS airbag	I: First period 10 years. I: After that every 2 years.																		MA-11 (Item 18)
	Ball joints and dust covers			I		I		I		I		I		I		I		I	I: Every 12 months	MA-11 (Item 21)
	Manual transaxle, automatic transaxle and differential	I				R				R				R				R	R: Every 24 months	MA-12 (Item 22)
	Steering gear housing oil (6)	I				I				I				I				I	I: Every 24 months	MA-11 (Item 19)
	Bolts and nuts on chassis and body (7)	I		I		I		I		I		I		I		I		I	I: Every 12 months	MA-13 (Item 24)
	Body inspection	I		I		I		I		I		I		I		I		I	I: Every 12 months	MA-13 (Item 25)
	Road test	I		I		I		I		I		I		I		I		I	I: Every 12 months	MA-13 (Item 26)

* mark indicate 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 long distances such as police, taxi or door-to-door delivery use.
(2) Applicable when operating mainly on dusty roads.
(3) Includes inspection of fuel tank band and vapor vent system.
(4) Also applicable to drum lining for parking brake. For other usage conditions, refer to SCHEDULE B.
(5) Check for leakage.
(6) Check for oil leaks from steering gear box.
(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 cross body.
- Strut bar bracket to body bolts.
- Bolts for sheet installation.

V00504

SCHEDULE B

CONDITION

Conditions other than those listed for SCHEDULE A.

System	Service interval (Use 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 × 1,000	1	7.5	15	22.5	30	37.5	45	52.5	60	Months	
		km × 1,000	1.6	12	24	36	48	60	72	84	96		
ENGINE	Valve clearance										A	A: Every 72 months	MA-8 (item 12)
	Drive belt		I: First period 60,000 miles or 72 months. I: After that every 7,500 miles or 12 months										MA-5 (item 2)
	Engine oil and oil filter★			R	R	R	R	R	R	R	R	R: Every 12 months	MA-7 (item 6)
	Engine coolant		R: First period 45,000 miles or 36 months. R: After that every 30,000 miles or 24 months										MA-7 (item 7)
	Exhaust pipes and mountings						I				I	I: Every 36 months	MA-8 (item 11)
FUEL	Air filter★						R				R	R: Every 36 months	MA-6 (item 3)
	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 linings and drums (2)				I		I		I		I	I: Every 24 months	MA-10 (item 14)
	Brake pads and discs (Front and rear)				I		I		I		I	I: Every 24 months	MA-9 (item 14)
	Brake fluid (3)	I			I		R		I		R	R: Every 36 months	MA-10 (item 16)
	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 17)
	SRS airbag	I: First Period 10 years. I: After that ever 2 years											MA-11 (item 18)
	Ball joints and dust covers				I		I		I		I	I: Every 24 months	MA-11 (item 21)
	Manual transaxle, automatic transaxle and differential	I			I		I		I		I	I: Every 24 months	MA-12 (item 22)
	Steering gear housing oil (4)	I			I		I		I		I	I: Every 24 months	MA-11 (item 19)
	Bolts and nuts on chassis and body (5)	I			I		I		I		I	I: Every 24 months	MA-13 (item 24)
	Body inspection	I	I	I	I	I	I	I	I	I	I	I: Every 12 months	MA-13 (item 25)
	Road test	I	I	I	I	I	I	I	I	I	I	I: Every 12 months	MA-13 (item 26)

★ 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) Also applicabel to lining drum for parking brake.
(3) Check for leakage.
(4) Check for oil leaks from steering gear box.
(5) The applicable parts are listed below.
- Front and rear suspension member to cross body.
- Strut bar bracket to body bolts.
- Bolts for sheet installation.

V00505

PREPARATION

EQUIPMENT

MA009–01

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

COOLANT

MA00B–010

Item	Capacity	Classification
Engine coolant (w/ Heater)		Ethylene–glycol base
NSR M/T	8.5 liters (9.0 US qts, 7.5 lmp. qts)	
NSR A/T	8.4 liters (8.9 US qts, 7.4 lmp. qts)	
NWR	9.0 liters (9.5 US qts, 7.9 lmp.qts)	

LUBRICANT

MA00D–02

Item	Capacity	Classification
Engine oil		API grade SG, Energy–Conserving II
Dry fill	5.0 liters (5.3 US qts, 4.4 lmp. qts)	multigrade, and recommended
Drain and refill		viscosity oil
w/Oil filter change	4.3 liters (4.5 US qts, 3.8 lmp. qts)	
w/o Oil filter change	4.1 liters (4.3 US qts, 3.6 lmp. qts)	
Manual transaxle oil		API GL–4 or GL–5
(w/Differential oil)	4.2 liters (4.4 US qts, 3.7 lmp. qts)	SAE 75 W–90 or 80 W–90
Automatic transaxle fluid		ATF DEXRON® II
(w/Differential oil)		
Dry fill	7.3 liters (7.7 US qts, 6.4 lmp. qts)	
Drain and refill	3.1 liters (3.3 US qts, 2.7 lmp. qts)	

MAINTENANCE OPERATIONS
Cold Engine Operations

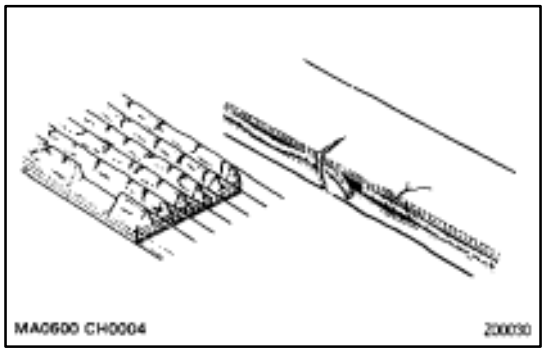
MA00F–01

1. REPLACE TIMING BELT

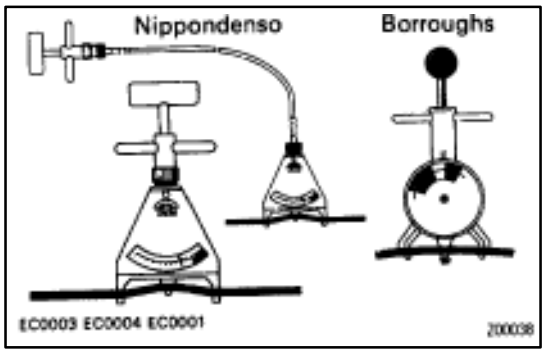
(a) Remove the timing belt.
(See EG section)

(b) Install the timing belt.
(See EG section)

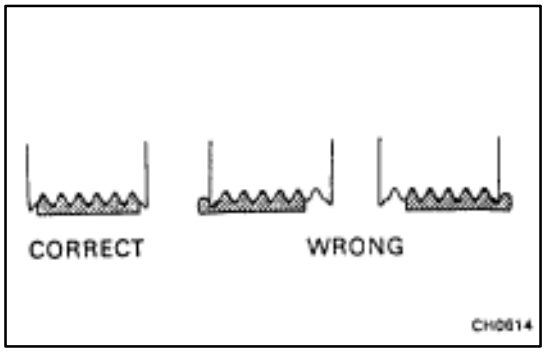
2. INSPECT DRIVE BELT



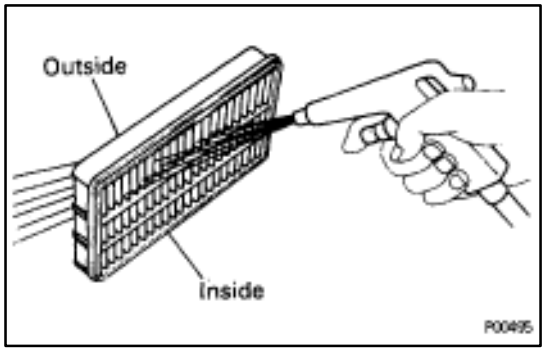
(a) Visually check the belt for excessive wear, frayed cords etc. If necessary, replace the drive belt.
HINT: Cracks on the rib side of a belt are considered acceptable. If the belt has chunks missing from the ribs, it should be replaced.



(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
New belt
170–180 lbf
Used belt
95–135 lbf
PS pump
New belt
150–185 lbf
Used belt
95–135 lbf
If necessary, adjust the drive belt tension.
HINT:



- "New belt" refers to a belt which has been used 5 miniutes 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.



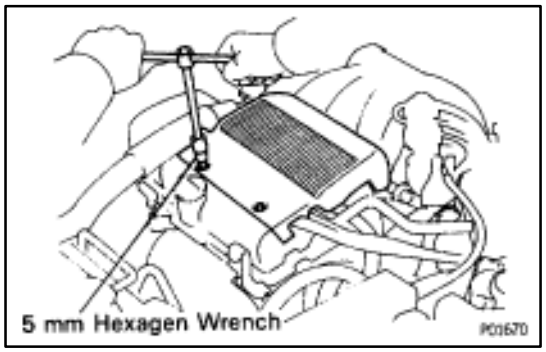
3. INSPECT AIR FILTER

(a) Visually check that the air cleaner element is not excessively damaged or only.

(b) Clean the element with compressed air.
First blow from the inside thoroughly, then blow off the outside of the element.

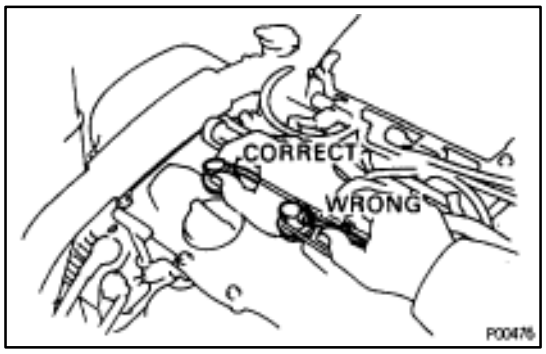
4. REPLACE AIR FILTER

Replace the air cleaner element with a new one.

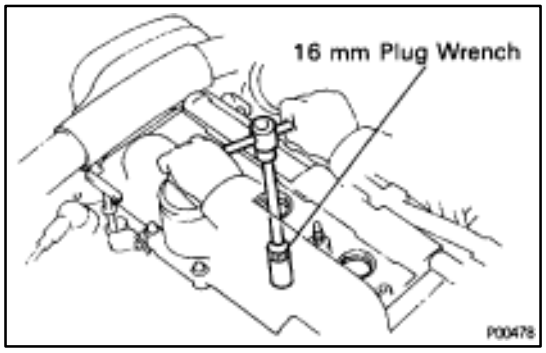


5. REPLACE SPARK PLUGS

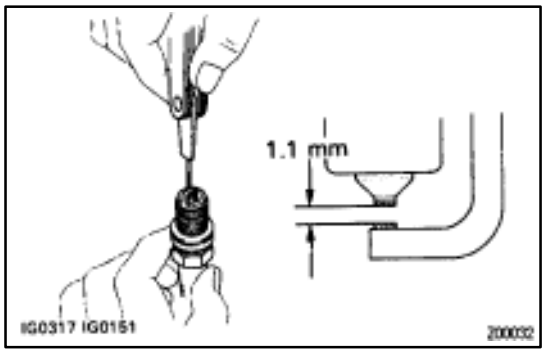
(a) Using a 5 mm hexagon wrench, remove the two nuts and V–bank cover.



(b) Disconnect the spark plug 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:

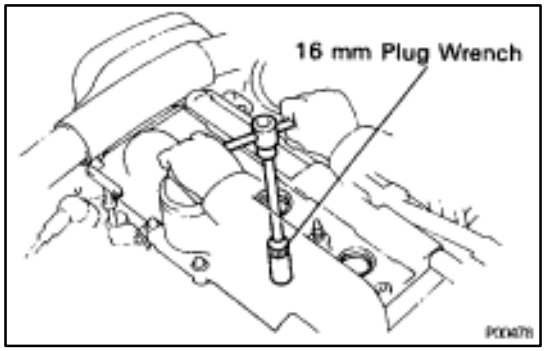
1.1 mm (0.043 in.)

Recommended spark plugs:

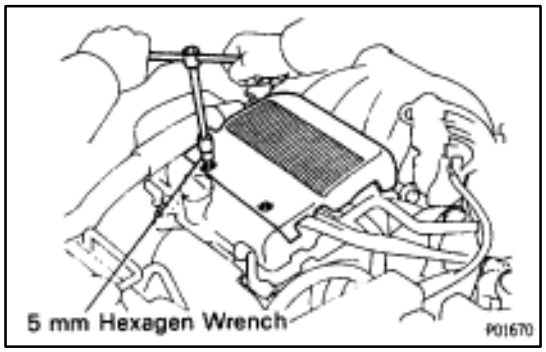
ND PQ20R

NGK BCPR6EP–11

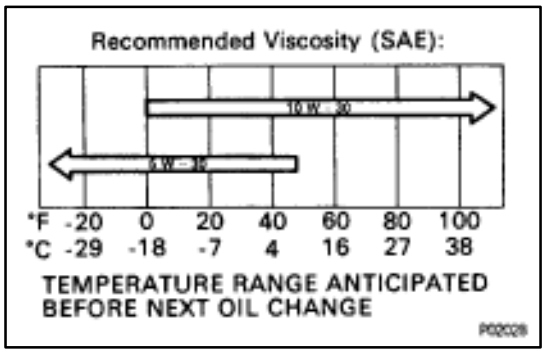
NOTICE: If adjusting the gap of a new plug, bend only the base of the ground electrode. DO NOT touch the tip. Never attempt to adjust the gap on a used plug.



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



(f) Using a 5 mm hexagon wrench, install the V–bank cover with the two nuts.



6. REPLACE ENGINE OIL AND OIL FILTER
(See EG section)

Oil grade:

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

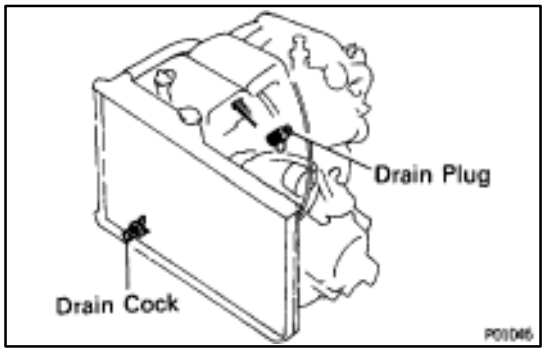
Drain and refill capacity:

w/ Oil filter change

4.3 liters (4.5 US qts, 3.8 lmp. qts)

w/o Oil filter change

4.1 liters (4.3 US qts, 3.6 lmp. qts)



7. REPLACE ENGINE COOLANT
(See 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.

NOTICE:

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

Coolant capacity (w/ Heater):

NSR

M/T

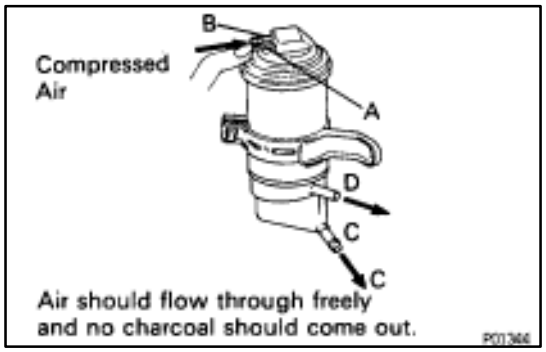
8.5 liters (9.0 US qts, 7.5 lmp. qts)

A/T

8.4 liters (8.9 US qts, 7.4 lmp. qts)

NWR

9.0 liters (9.5 US qts, 7.9 lmp. qts)



8. INSPECT CHARCOAL CANISTER

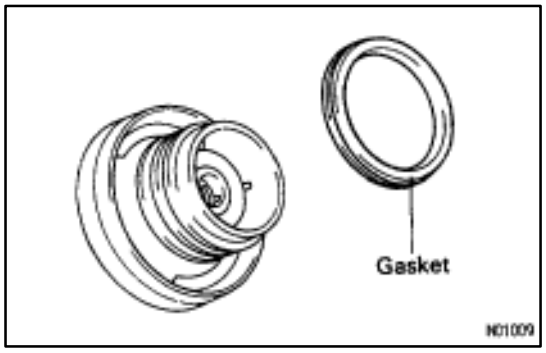
(a) Disconnect the hoses from the charcoal canister.
Label hoses for correct installation.

(b) Plug port A with your finger, and blow compressed air (294 kPa, 3kgf/cm^2 or 43 psi) through port B (fuel tank side).
- Check that air comes out of the bottom ports C and D 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. 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 (See EG section)

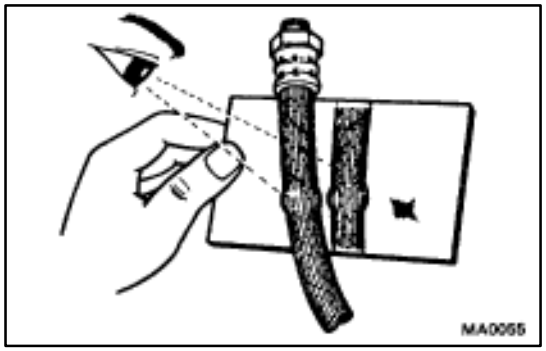
Valve clearance (Cold):

Intake

0.13–0.23 mm (0.005–0.009 in.)

Exhaust

0.27–0.37 mm (0.011–0.015 in.)



BRAKES

MA00H–02

13. INSPECT BRAKE LINE PIPES AND HOSES

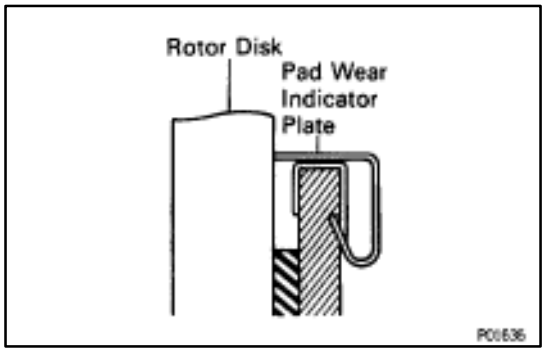
HINT: Check in a well lighted area. Check the entire circumference and length of the brake hoses using a mirror as required. Turn the front wheels fully right or left before checking the front brake.

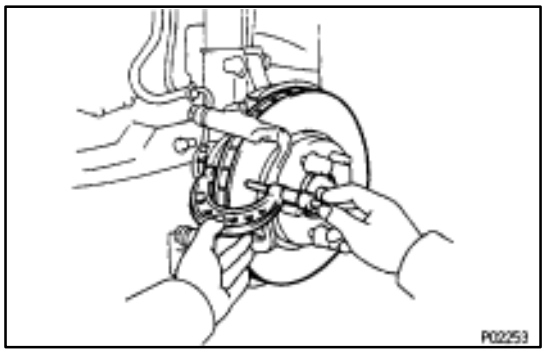
(a) Check all brake lines and hoses for:
- Damage
- Wear
- Deformation
- Cracks
- Corrosion
- Leaks
- Bends
- Twists

(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 FRONT AND REAR 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.

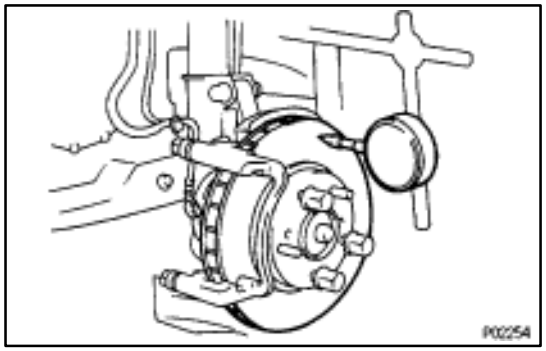
Minimum disc thickness:

Front

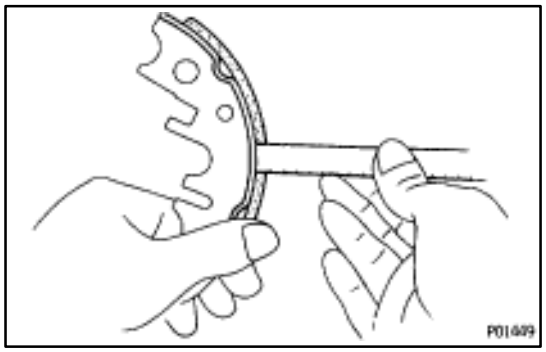
26.0 mm (1.024 in.)

Rear

9.0 mm (0.354 in.)



Maximum disc runout:
Front
0.05 mm (0.0020 in.)
Rear
0.15 mm (0.0059 in.)

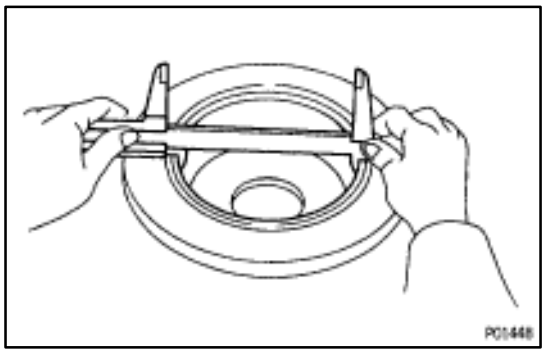


15. INSPECT PARKING BRAKE LININGS AND DRUMS (See BR section)

(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:
171.0 mm (6.732 in.)

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



NOTICE: 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 24, do the following:
- Drive the vehicle at approx. 50 km/h (30 mph) on a safe, level and dry road.
- (Center lever type parking brake)

With the parking brake release lever pushed in, pull on the lever with 88 N (9 kgf, 20 lbf) of force.
- (Pedal type parking brake)

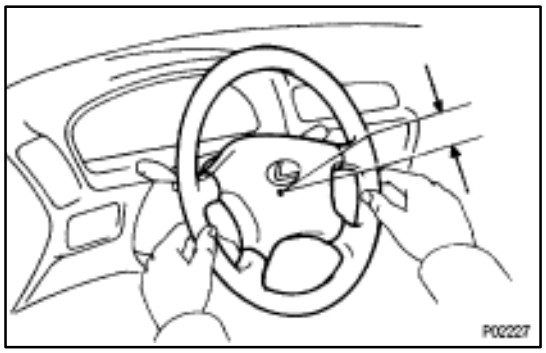
Depress the pedal with 147 N (15 kgf, 33 lbf) of force.
- Drive the vehicle for approx. 400 m (1/4 miles) in this condition.
- Repeat this procedure 2 or 3 times.
- Check parking lever travel.

16. INSPECT OR CHANGE BRAKE FLUID

(a) Visually inspect the master cylinder for leaks.
(b) Change brake fluid (See BR section)

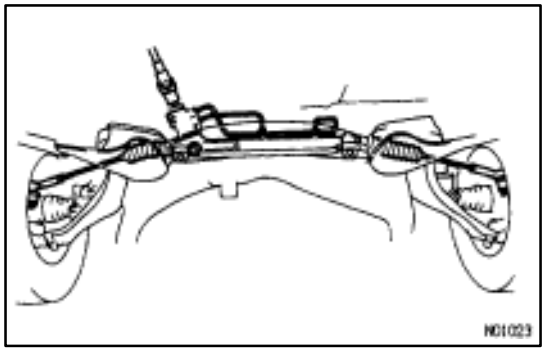
CHASSIS

MA00K–02

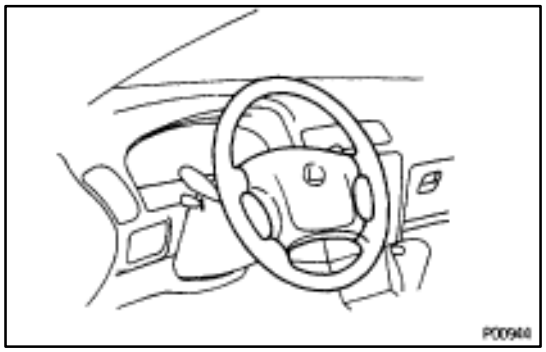


17. INSPECT STEERING LINKAGE

(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

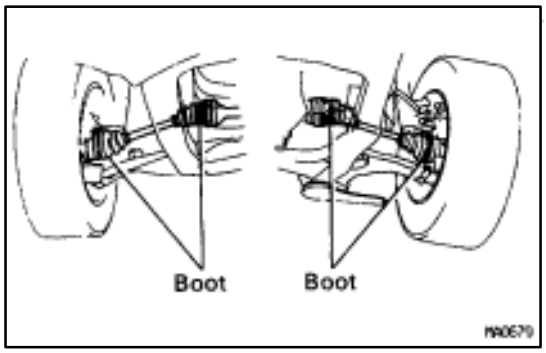
Visually inspect the steering wheel pad (airbag and inflater).
- Use the diagnosis check to check if there are abnormalities.
- Check that there are no cuts, cracks or noticeable color changes on the surface of the steering wheel pad or in the center groove of the pad.
- Remove the steering wheel pad 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 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).**

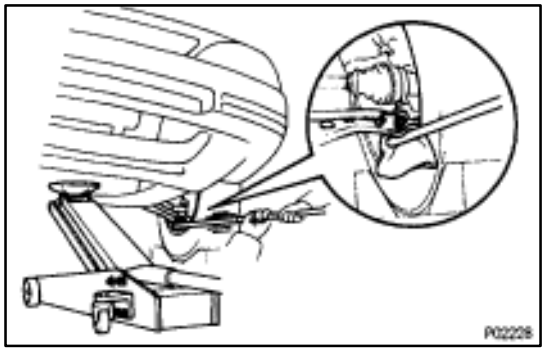
19. INSPECT STEERING GEAR HOUSING OIL

Check the steering gear housing for oil leakage.



20. INSPECT DRIVE SHAFT BOOTS

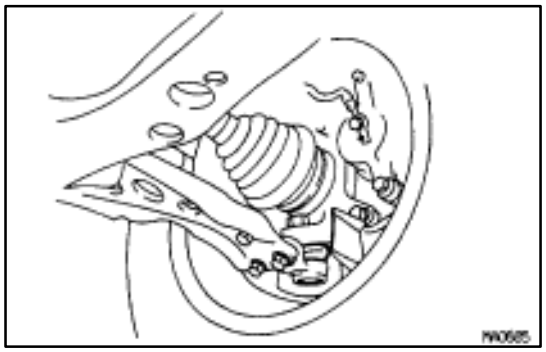
Check the drive shaft boots for clamp looseness, leakage or damage.



21. 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.



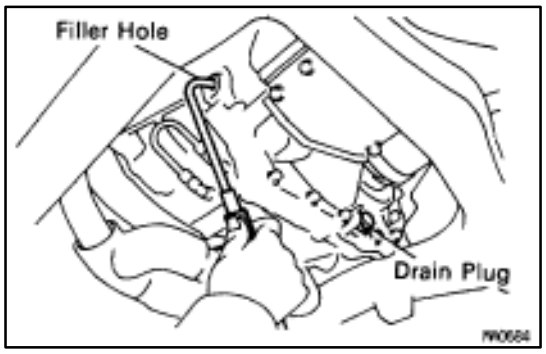
- Using a lever, pry up the end of the lower arm, and check the amount of play.

Maximum ball joint vertical play:

0 mm (0 in.)

If there is play, replace the ball joint.

(b) Check the dust cover for damage.



22. CHECK TRANSAXLE OIL (FLUID)

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

23. REPLACE TRANSAXLE OIL (FLUID)

A. (M/T)

Replace transaxle oil

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

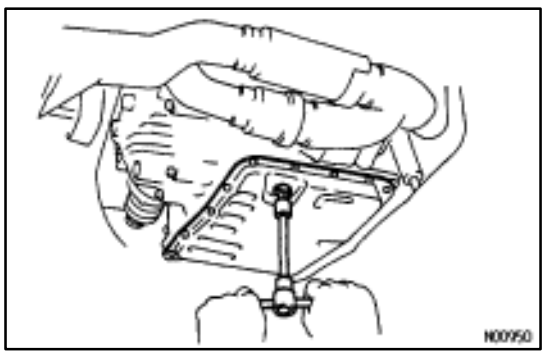
Transaxle oil:

Oil grade API GL–4 or GL–5
Viscosity SA 75W–90 or 80W–90

Capacity:

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

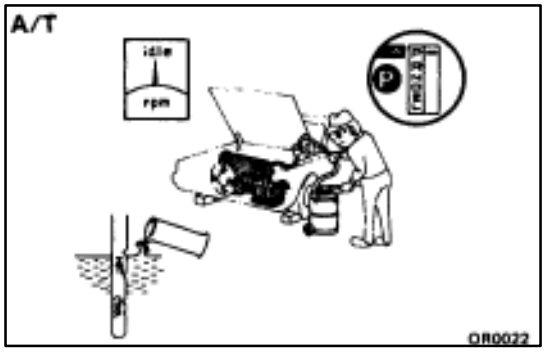
(d) Reinstall filler plug securely.



B. (A/T)

Replace transaxle fluid

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



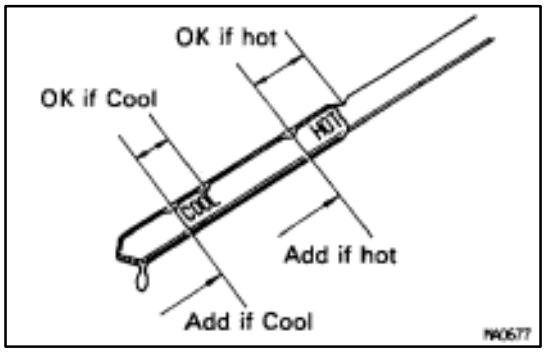
(c) With the engine OFF, and new fluid through the dipstick tube.
Transaxle fluid:
ATF DEXRON® II
Drain and refill capacity:
3.1 liters (3.3 US qts, 2.7 Imp. qts)

(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 overfill. 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.

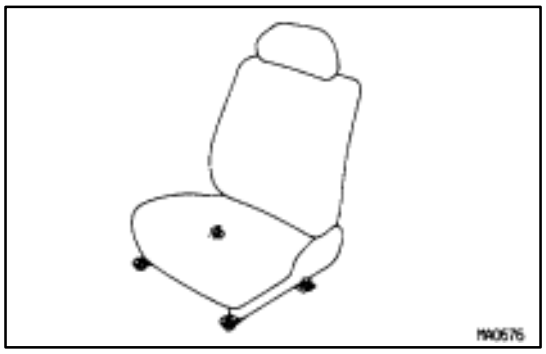


24. TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY

Tighten the following parts:

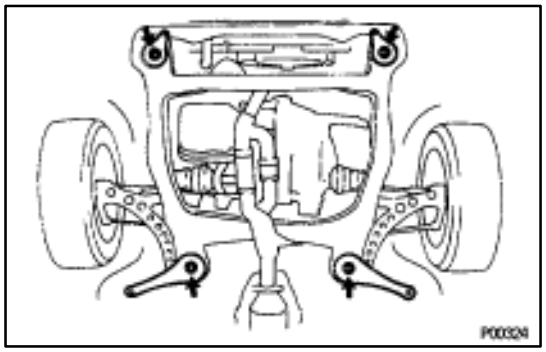
- Front seat mount bolts

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



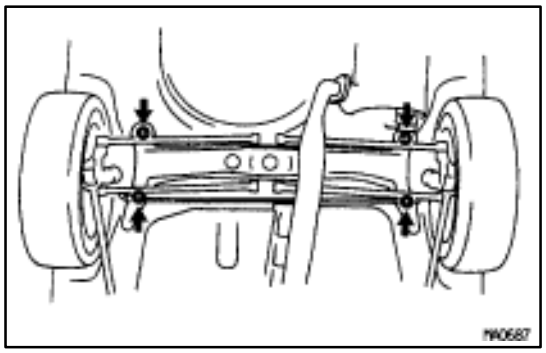
- Front suspension member–to–body mounting bolts

Torque: 181 N·m (1,850 kgf·cm, 134 ft·lbf)



- Rear suspension member–to–body mounting nuts

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



25 BODY INSPECTION

(a) Check the body exterior for dents, scratches and rust.

(b) Check the underbody for rust and damage.
If necessary, replace or repair.

26 ROAD TEST

(a) Check the engine ahd chassis for abnormal noises.

(b) Check that the vehicle does not wander or pull to one side.

(c) Check that the brakes work properly and do not drag.

(d) Perform setting or the parking brake shoes and drum.

27. FINAL INSPECTION

(a) Check the operation of the body parts:

- Hood

Auxiliary catch operates properly
Hood locks securely when closed

- Front and rear doors

Door lock operates properly
Doors close properly

- Luggage compartment door and back 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.
- Perform bedding down of the parking brake shoes and drum. (See page MA–10)

(b) Be sure to deliver a clean car and especially chack:

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

GENERAL MAINTENANCE

MA00M–01

There are the maintenance and inspection items which are considered to be the owner's responsibility. They can be performed by the owner or be 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 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

Wheel 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 no 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 aim.

8. WARMING LIGHT AND BUZZERS

Check that all warning lights and buzzers function properly.

9. HORN

Check that it is working.

10. WINDSHIELD GLASS

Glass 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 the air comes out from the defroster outlet when operating the heater air conditioner at defroster mode.

13. REAR VIEW MIRROR

Check that it is mounted securely.

14. SUN VISORS

Check that they move freely and 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 ay latches 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 CL section)

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

20. BRAKE PEDAL (See BR section)

(a) Check that 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 BR section)

(a) Check that the lever has the proper travel.

(b) On a safe incline, check that the vehicle is help 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 the vehicle is help 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 that 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.

SERVICE SPECIFICATIONS

SERVICE DATA

MA002–01

Drive belt tension			
Alternator		New belt	170–180 lbf
Alternator		Used belt	95–135 lbf
PS pump		New belt	150–185 lbf
PS pump		Used belt	95–135 lbf
Spark plug	Recommended spark plug	ND	PQ20R
Spark plug	Recommended spark plug	NGK	BCPR6EP–11
Spark plug	Correct electrode gap		1.1 mm (0.043 in.)
Firing order			1–2–3–4–5–6
Valve clearance		Intake	0.13–0.23 mm (0.005–0.009 in.)
Valve clearance		Exhaust	0.27–0.37 mm (0.011–0.015 in.)
Front and rear brake			
Pad thickness		Minimum	1.0 mm (0.039 in.)
Disc thickness	Front	Minimum	26.0 mm (1.024 in.)
Disc thickness	Rear	Minimum	9.0 mm (0.354 in.)
Disc runout	Front	Maximum	0.05 mm (0.020 in.)
Disc runout	Rear	Maximum	0.15 mm (0.0059 in.)
Parking brake			
Lining thickness		Minimum	1.0 mm (0.039 in.)
Drum inside diameter		Maximum	171.0 mm (6.732 in.)
Front axle and suspension			
Ball joint vertical play		Maximum	0 mm (0 in.)
Steering wheel freeplay		Maximum	30 mm (1.18 in.) or less

TORQUE SPECIFICATIONS

MA003–01

Part tightened	N·m	kgf·cm	ft·lbf
Front seat mount bolts	37	375	27
Front suspension member X Body	181	1,850	134
Rear suspension member X Body	113	1,150	83