MAINTENANCE

GENERAL NOTES:

- There are two separate maintenance schedules, namely A and B, which apply to different driving conditions. Find out how the vehicle is driven, 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 operation.
- The service interval for scheduled maintenance is determined by the odometer reading or time interval, whichever comes first, shown in the schedule.
- Maintenance services after the last period should be performed at the same interval as before unless otherwise noted.
- Skipping even one item in the list can cause the engine to run poorly and increase exhaust emissions.

MAINTENANCE SCHEDULE

SCHEDULE A

CONDITIONS:

- Towing a trailer, using a camper or car top carrier.
- Repeated short trips of less than 8 km (5 miles) with outside temperature remaining 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.

Maintenance operation: A = Check and adjust if necessary.

R = Replace, change or lubricate.

I = Inspect and correct or replace if necessary.

	Service Interval (Use odometer reading or months.)	Maintenance a shown for eac							,000	miles) sho	uld c	contin	tue to	be p	perfo	rmed	at th		ne intervals	See page (item No.)	
System	whichever comes fin		1.6		12	18	24	30	*	42	48	14	60	95	72	78	94	90	96	Months		
	Maintenance items	x 1,000 miles	1	176	75	11.25	15	18.75	22.5	76.25	30	30.75	27.5	41.35	45	48.75	12.5	54.75	80	Months		
ENGINE	Timing belt (1)										_								R	_	MA-6	(item 1)
	Valve disarance																		٨	A: Every 72 months	MA-9	(item 12)
	Drive belt		t:A	t: First period 96,000 km (60,000 miles) or 72 months. t: After that every 12,000 km (7,500 miles) or 12 months.											MA-6	(item 2)						
	Francis all	2.IZ-GE engine	R	A	8	R	R	R	R	R	R	R	В	R	R	В	R	R	R	R: Every 6 months		
	Engine oil	2JZ-GTE engine	R:	R: Every 2,500 miles (4,000 km) or 3 months.							MA-7	(Herm 6)										
	Engine oil filter	2JZ-GE engine	R	R	R	R	R	R	Я	R	R	R	Я	R	R	R	R	R	R	R: Every 6 months		
	Engine on niner	2JZ-GTE engine	R	Every	5,00	X) mi	es (8	,000	km) c	r 6 m	onth	٠.									MA-7	(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-8	(item 7)					
	Exhaust pipes and n	nountings					L				1				1				1	It Every 24 months	MA-9	Stem 11)
FUEL	Air filter (2)*			ı	1	1	1	ı	1	1	R	1	1	1	1	7	,	1	R	E Every 6 months R: Every 36 months	MA-6	0tem 3,
	Fuel lines and connections (3)										1			Г					ī	it Every 36 months	MA-9	(item 10)
	Fuel tank cap gasket																		R	R: Every 72 months	MA-9	(item 9)
IGNITION	Spark pluga (Pletinu	m tipped type)																_	R	R: Every 72 months	MA-7	(item 5)
EVAP	Charcoal canister	New York and California only																	1	E Every 72 months	MA-8	(item 8)
BRAKES	Brake linings and drums (4)				1		1		1		1		1		ï		1		7	It Every 12 months	MA-11	(item 1
	Brake pade and died	e (Front and rear)			ı.	-	1		1		Т		1		1		1		1	I: Every 12 months	MA-11	(item 14
	Brake line pipes and	hoses					1				1				1				1	t Every 24 months	MA-10	litem 12
CHASSIS	Steering linkage				1		1		1		ī		T		Т		ī	_	T	E Every 12 months	MA-12	item 10
	SRS airbag		t First period 10 years. It After that every 2 years.										MA-12	jitem 17								
	Bell joints and dust	Bell joints and dust covers			. 1		1		Ţ		1		T		ı		T		1	t Every 12 months	MA-13	(item 1
	Automatic transmiss transmission and di						R				В				R				R	R: Every 24 months	MA-14	1, 15 20, 21)
	Steering gear housing	ng oil (5)					ı				ı								1	It Every 24 months		Otem 1
	Boits and nuts on ch	assis and body (6)			1		1		. 1		1	-	- 1		_			T-	T	It Every 12 months	_	Ütem 2

* mark indicates maintenance which is part of the warranty conditions for the Emission Control Systems. The warranty period is in accordance with the owner's guide or the warranty booklet.

2JZ-GE:

*: For vehiles sold in California, Massachusetts, New Jersey, Connecticut and New York only.

2JZ-GTE:

- *: For vehiles sold in California and Massachusetts only.
- (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 oil leaks from steering gear housing.
- (6) 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.
 - Bolts for sheat installation.

SCHEDULE B

CONDITIONS:

Conditions others than those listed for SCHEDULE A.

Maintenance operation: A = Check and adjust if necessary.

R = Replace, change or lubricate.

I = Inspect and correct or replace if necessary.

	Service interval (Use odometer reading or months, whichever									See page				
System	or months, which comes first)	x 1,000 km	1.6	12	24	36	48	90	72	84	96	Months	(item No.)	
	Maintenance ite	x 1,000 miles	1	7.5	15	22.5	30	37.5	45	52.5	60	monera		
ENGINE	Valve clearance Drive belt										Α	A: Every 72 months	MA-9 (item 12)	
			l: Fi	l: First period 96,000 km (60,000 miles) or 72 months. l: After that every 12,000 km (7,500 miles) or 12 months.									MA-6 (item 2)	
	2JZ-GE		engine	R	R	R	R	R	R	R	R	R	R: Every 12 months	MA-7 (item 6)
	Engine oil	2JZ-GT	2.JZ-GTE engine		very	5,000	miles	(8,00	0 km)	or 6	mont	16.		MA-8 (item 6)
	Foods of Char	2JZ-GE	engine	R	R	R	R	R	R	R	R	R	R: Every 12 months	MA-7 (item 6)
	Engine oil filter	2JZ-G1	2.JZ-GTE engine		very	10,00	mile	s (16,	000 k	m) or	12 m	onths		MA-8 (item 13)
	Engine coolent			R: F	irst p	eriod hat ev	72,00 very 4	0 km 8,000	(45,00 km (2	10 mil 10,000	es) or mile	36 m s) or 2	onths. 24 months.	MA-8 (item 7)
	Exhaust pipes and mo	ountings									Г	Т	I: Every 36 months	MA-9 (item 11)
FUEL	Air filter#							R				R	R: Every 36 months	MA-6 (item 4)
	Fuel lines and connections (1)							1				1	I: Every 36 months	MA-9 (item 10)
	Fuel tank cap gasket											R	R: Every 72 months	MA-9 (item 9)
IGNITION	Spark plugs (Platinum tipped type)				-		-					R	R: Every 72 months	MA-7 ' (item 5)
EVAP	Charcoal canister New York and California only										ī	I: Every 72 months	MA-8 J (item 8)	
BRAKES	Brake linings and dru	ms (2)				T		T		Т		Т	I: Every 24 months	MA-11 (item 15)
	Brake pads and discs	(Front an	d rear)	\Box		T		1		T		Т	I: Every 24 months	MA-11 (item 14)
	Brake line pipes and I	hoses				1		1		1	П	T	I: Every 24 months	MA-10) (item 13)
CHASSIS	Steering linkage					1		1		1		T	I: Every 24 months	MA-12 ! (item 16)
	SRS airbag				I: First period 10 years. I: After that every 2 years.								MA-12 (item 17)	
	Ball joints and dust covers					1		T		1		T	E Every 24 months	MA-13 (item 19)
	Automatic transmission, manual transmission differential oil (3)					1		1		ı		1	I: Every 24 months	MA-14 (item 20)
	Differential (LSD)					1		R		1,		R	I: Every 24 months R: Every 48 months	MA-15_ (tem 20)
	Steering gear housing	g oil (4)				T		Т		T		Т	I: Every 24 months	MA-13 (item 18)
	Bolts and nuts on che	essis and I	body (5)			T		T		1		1	I: Every 24 months	MA-16 [tem 22]

★ mark indicates maintenance which is part of the warranty conditions for the Emission Control Systems. The warranty period is in accordance with the owner's guide or the warranty booklet. 2JZ–GE:

★: For vehiles sold in California, Massachusetts, New Jersey, Connecticut and New York only. 2JZ-GTE:

- ★: For vehiles sold in California and Massachusetts only.
- (1) Includes inspection of fuel tank band and vaper 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 parts are listed below.
 - Front and rear suspension member to cross body.
 - Bolts for sheat installation.

PREPARATION RECOMMENDED TOOLS



09200-00010 Engine Adjust Kit.

EQUIPMENT

Dial indicator	Brake disc
Micrometer	Brake disc
Mirror	Brake hose
Thermometer	
Torque wrench	
Vernier calipers	Parking brake drum

COOLANT

	Item
Engine coolant (w/ Heater) 2JZ–GE M/T 7.3 liters (7.7 US qts, 6.4 lmp. qts) 8.3 liters (8.8 US qts, 7.3 lmp. qts) 9.5 liters (10.0 US qts, 8.4 lmp. qts) 9.4 liters (9.9 US qts, 8.3 lmp. qts) 9.4 liters (9.9 US qts, 8.3 lmp. qts)	2JZ-GTE M/1

LUBRICANT

Item		Capacity	Classification
Engine oil (Drain and refill) w/ Oil filter change w/o Oil filter change	(2JZ–GE)	5.3 liters (5.6 US qts, 4.7 lmp. qts) 4.9 liters (5.2 US qts, 4.3 lmp. qts)	API grade SH, Energy–Conserving II multigrade engine oil or ILSAC multigrade engine oil and recommended viscosity oil, with SAE 5W–30 being preferred engine oil
Engine oil (Drain and refill) (w/ Oil filter change w/o Oil filter change	2JZ–GTE)	5.0 liters (5.3 US qts, 4.4 lmp. qts) 4.7 liters (5.0 US qts, 4.1 lmp. qts)	API grade SH, Energy–Conserving II mutigrade engine oil or ILSAC multigrade engine oil and recommended viscosity oil
Manual transmission oil	2JZ–GE 2JZ–GTE	2.6 liters (2.7 US qts, 2.3 lmp. qts) 1.8 liters (1.9 US qts, 1.6 lmp. qts)	API GL-5 SAE 75W-90 Castle gear oil V160
Automatic transmission fluid (Drain and refill)	2JZ–GE 2JZ–GTE	1.6 liters (1.7 US qts, 1.4 lmp. qts) 1.9 liters (2.0 US qts, 1.7 lmp. qts)	ATF DEXRON® II ATF TYPE T-II
Differential oil		1.35 liters (1.43 US qts, 1.19 lmp. qts)	API GL-5 Above-18° C (0° F) SAE 90 Below-18° C (0° F) SAE 80W-90 or 80W

MAINTENANCE OPERATIONS ENGINE

Cold Engine Operations

1. REPLACE TIMING BELT

(See timing belt removal and installation in Engine Mechanical)

2. INSPECT DRIVE BELT

(See step 3 in on-vehicle insection in Charging System)

- 3. INSPECT AIR FILTER
- (a) Remove the air filter.
- (b) Visually check that the air filter is not excessively damaged or oily.

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.
- 4. REPLACE AIR FILTER

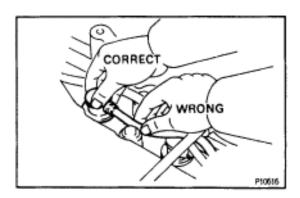
Replace the air filter with a new one.

- 5. REPLACE SPARK PLUGS
- (a) 2JZ-GE:

Remove the throttle body.
(See throttle body removal in SFI System)

- (b) Remove the No.3 timing belt cover.
- (c) 2JZ-GE:

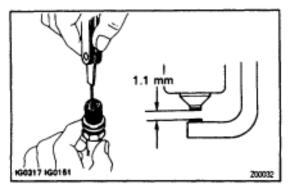
Remove the cylinder head rear cover.



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

NOTICE: Pulling on or bending the cords may damage the conductor inside.

(e) Using a 16 mm plug wrench, remove the 6 spark plugs.



f) Check the electrode gap of new spark plugs.

Correct electrode gap:

1.1 mm (0.043 in.)

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Recommended spark plug:
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2JZ-GE ND

PK16R11

HGK

BKR5EP11

2JZ-GTE

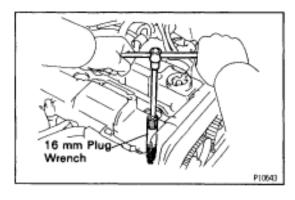
ND

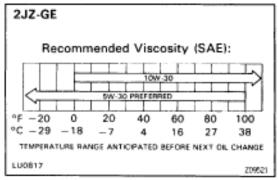
PK20R11

NGK

BKR6EP11

NOTICE: If adjusting the gap of a new spark plug, bend only the base of the ground electrode. Do not touch the tip.





(g) Using a 16 mm plug wrench, reinstall the 6 spark plugs.

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

- (h) Reconnect the high-tension cords.
- (i) 2JZ–GE:

Reinstall the cylinder head rear cover.

- (j) Reinstall the No.3 timing belt cover.
- (k) 2JZ-GE:

Reinstall the throttle body.

(See throttle body installation in SFI System)

6. REPLACE ENGINE OIL AND OIL FILTER

(See oil and filter replacement in Lubrication System)

2JZ-GE:

Oil grade:

API grade SH Energy–Conserving II multigrade engine oil or ILSAC multigrade engine oil. Recommended viscosity is as follows with SAE 5W–30 being the preferred engine oil for your vehicle.

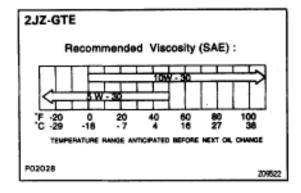
Drain and refill capacity:

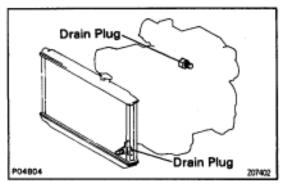
w/ Oil filter change

5.3 liters (5.6 US qts, 4.7 lmp. qts)

w/o Oil filter change

4.9 liters (5.2 US qts, 4.3 lmp. qts)





2JZ-GTE:

Oil grade:

API grade SH Energy-Conserving II multigrade engine oil or ILSAC multigrade engine oil. Recommended viscosity is given in the following chart.

Drain and refill capacity:

w/ Oil filter change

5.0 liters (5.3 US qts, 4.4 lmp. qts)

w/o Oil filter change

4.7 liters (5.0 US qts, 4.1 lmp. qts)

7. REPLACE ENGINE COOLANT

(See coolant replacement in Cooling System) Capacity (w/ Heater):

2JZ-GE

M/T

7.3 liters (7.7 US qts, 6.4 lmp. qts)

A/T

8.3 liters (8.8 US qts, 7.3 lmp. qts)

2JZ-GTE

M/T

9.5 liters (10.0 US qts, 8.4 lmp. qts)

A/T

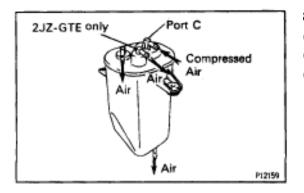
9.4 liters (9.9 US qts, 8.3 lmp. qts)

HINT:

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

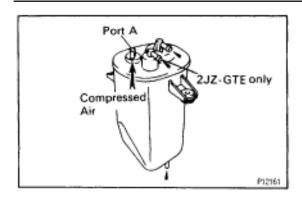
NOTICE:

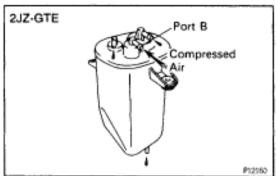
- Do not use a alcohol type coolant.
- The coolant should be mixed with demineralized water or distilled water.

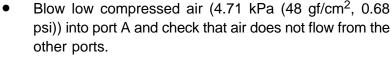


8. INSPECT CHARCOAL CANISTER

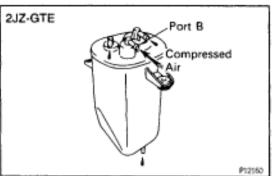
- (a) Remove the charcoal canister.
- (b) Visually inspect the canister case.
- (c) Check for crogged each port and stuck check valve.
 - Using low compressed air (4.71 kPa (48 gf/cm², 0.68 psi)), blow into port C and check that air flows without resistance from the other ports.







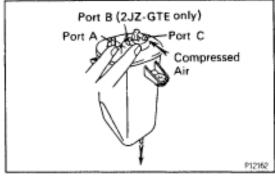
If operation is not as specified, replace the charcoal canister.



2JZ-GTE:

Blow low compressed air (4.71 kPa (48 gf/cm², 0.68 psi)) into port B and check that air does not flow from the other ports.

If operation is not as specified, replace the charcoal canister.



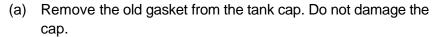
(d) Clean the filter in the canister.

Clean the filter by blowing 294 kPa (3 kgf/cm², 43 psi) of compressed air into port C while holding port A and B (2JZ-GTE only) closed.

NOTICE:

- Do not attempt to wash the canister.
- No activated carbon should come out.
- (e) Reinstall the charcoal canister.

REPLACE GASKET IN FUEL TANK CAP 9.



- Install a new gasket by hand. (b)
- Check the cap for damage or cracks. (c)
- (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 valve clearance inspection and adjustment in Engine Mechanical)

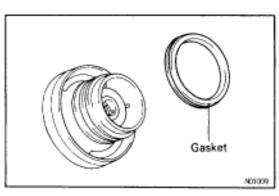
Valve clearance (Cold):

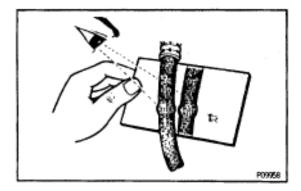
Intake

0.15-0.25 mm (0.006-0.010 in.)

Exhaust

0.25-0.35 mm (0.010-0.014 in.)



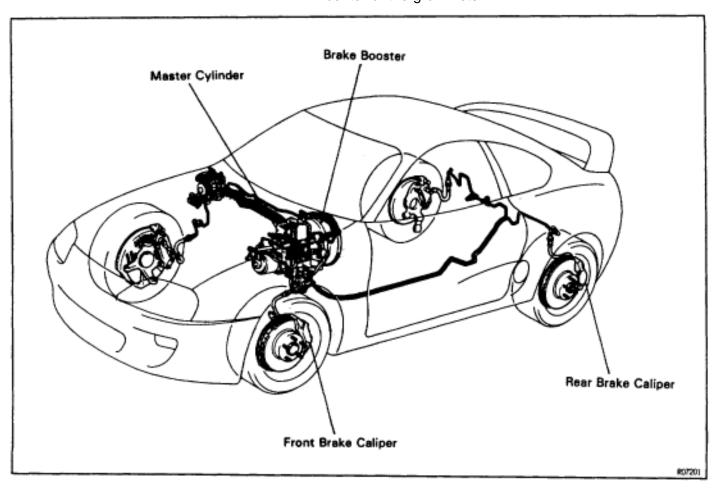


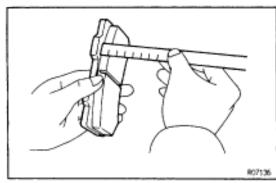
BRAKES

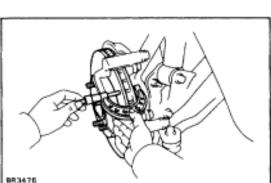
13. INSPECT BRAKE LINE PIPES AND HOSES

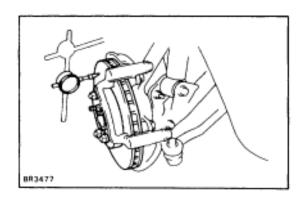
HINT: Check in a well lighted area. Check the entire circumference and length of the brake hoses using a mirror as required. Turn the front wheels fully right or left before checking the front brake.

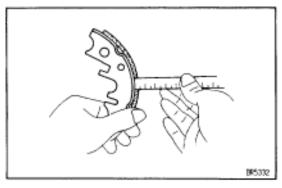
- (a) Check all brake lines and hoses for:
 - Damage
 - Wear
 - Deformation
 - Cracks
 - Corrosion
 - Leaks
 - Bends
 - Twists
- (b) Check all clamps for tightness and connections for leakage.
- (c) Check that the hoses and lines are clear of sharp edges, moving parts and the exhaust system.
- (d) Check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

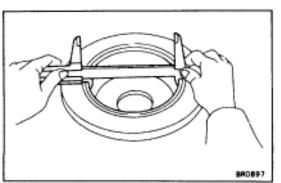












14. INSPECT BRAKE PADS AND DISCS FOR FRONT AND REAR

(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
2JZ-GE
30.0 mm (1.181 in.)
2JZ-GTE
28.0 mm (1.102 in.)
Rear
15.0 mm (0.591 in.)

Maximum disc runout: 0.05 mm (0.0020 in.)

15. INSPECT BRAKE LININGS AND DRUMS FOR PARKING BRAKE

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

Minimum lining thickness:

1.0 mm (0.039 in.)

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

Maximum drum inside diameter:

191 mm (7.520 in.)

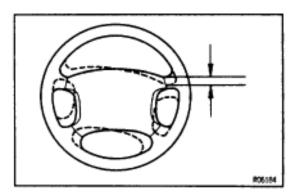
(c) Clean the brake parts with a damp cloth.

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.
- With the parking brake button pushed in, pull on the lever with 88 N (9 kgf, 20 lbf) of force.
- Drive the vehicle for approx. 400 meters (1/4 mile) in this condition.
- Repeat this procedure 2 or 3 times.
- Check parking lever travel.

If necessary, adjust the parking brake.



CHASSIS

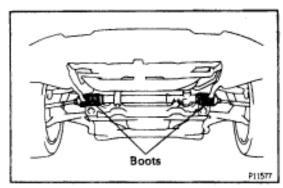
16. INSPECT STEERING LINKAGE

(a) Check the steering wheel freeplay.

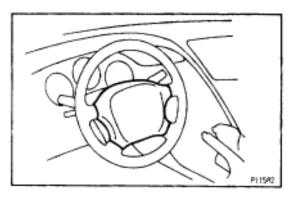
Maximum freeplay:

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.



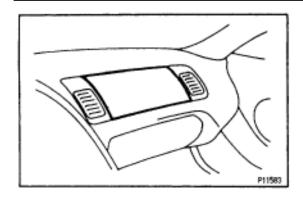
17. INSPECT SRS AIRBAG

Driver 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.



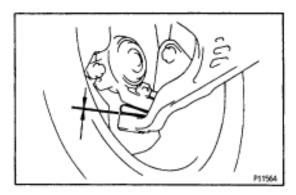
Front Passenger Airbag:

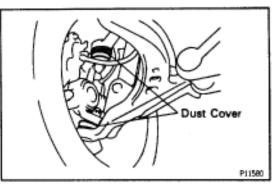
Visually inspect the front passenger airbag assembly (airbag and inflater).

- Use the diagnosis check to check if there are abnormalities.
- Check that there are no cuts, cracks or noticeable color changes in the front passenger airbag door.
- Remove the front passenger airbag assembly from the vehicle and check the wiring and front passenger airbag door for damage and corrosion due to rusting, etc.

If necessary, replace the front passenger airbag assembly. **CAUTION:**

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





18. INSPECT STEERING GEAR HOUSING OIL

Check the steering gear housing for oil leakage.

19. INSPECT BALL JOINTS AND DUST COVERS

- (a) Inspect the ball joints for excessive looseness.
 - Jack up the front of the vehicle and support it with stands.
 - Make sure the front wheels are in a straight-ahead position, and depress the brake pedal.
 - Jack up the lower suspension arm until there is about half a load on the front coil spring.
 - Move the front wheel up and down and check that the ball joint has no excessive play.

Maximum lower ball joint vertical play:

0.3 mm (0.012 in.)

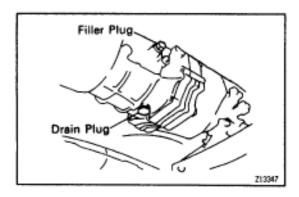
If the play is greater than maximum, replace the ball joint.

(b) Visually check the dust covers for damage.

20. INSPECT TRANSMISSION OIL (FLUID) AND DIFFERNTIAL OIL

Visually check the transmission and differential for oil (fluid) leakage.

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

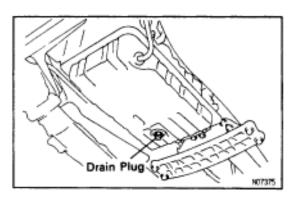


21. REPLACE TRANSMISSION OIL (FLUID) AND DIFFERENTIAL OIL

- A. Replace manual transmission oil
- (a) Remove the filler and drain plugs, and drain the oil.
- (b) Reinstall the drain plug securely.
- (c) Add fresh oil untill it begins to run out of the filler hole.

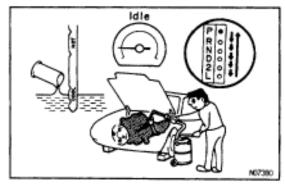
Transmission oil:

2JZ-GE
Oil grade
API GL-5
Viscosity
SAE 75W-90
Capacity
2.6 liters (2.7 US qts, 2.3 lmp. qts)
2JZ-GTE
Oil
Castle gear oil V160
Capacity
1.8 liters (1.9 US qts, 1.6 lmp. qts)



B. Replace automatic transmission fluid

- (a) Remove the drain plug, and drain the fluid.
- (b) Clean the drain plug.
- (c) Reinstall the drain plug securely.



(d) With the engine OFF, add new fluid through the dip-stick tube.

Transmission fluid:

2JZ-GE Fluid type ATF DEXF

ATF DEXRON® II or equivalent

Drain and refill capacity

1.6 liters (1.7 US qts, 1.4 lmp. qts)

2JZ-GTE

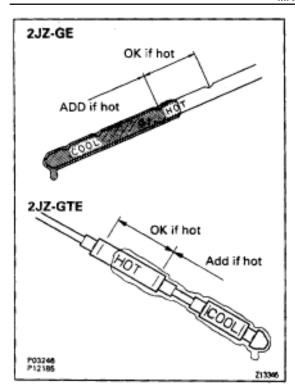
Fluid type

ATF type T-II or equivalent

Drain and refill capacity

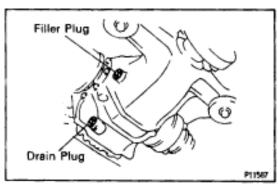
1.9 liters (2.0 US qts, 1.7 lmp. qts)

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



(g) Check that the fluid level is in the "HOT" range at the normal operating temperature (70-80°C (158-176°F)) and add as necessary.

NOTICE: Do not overfill.



C. Replace differential oil

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

Differential oil:

Oil grade

API GL-5

Viscosity

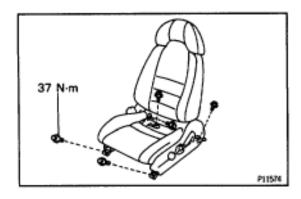
Above-18°C (0°F) SAE 90

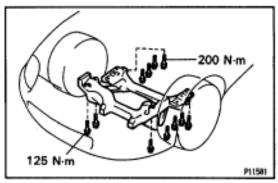
Below-18°C (0°F) SAE 80W-90 or 80W

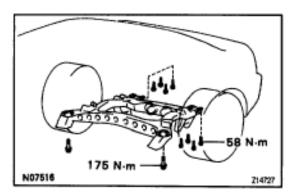
Capacity

1.35 liters (1.43 US qts, 1.19 lmp. qts)

Reinstall the filler plug securely.







22. TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY

Tighten the following parts:

Front seat—to—body mounting bolts

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

• Front suspension member-to-body mounting bolt

Torque:

Front side

125 N·m (1,280 kgf·cm, 92 ft·lbf)

Rear side

200 N·m (2,040 kgf·cm, 148 ft·lbf)

• Rear suspension member-to-body mounting bolts.

Torque: 175 N·m (1,790 kgf·cm, 129 ft·lbf)

Rear suspension member rear cushion-to-body mounting bolts

Torque: 58 N·m (590 kgf·cm, 43 ft·lbf)

23. 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.

24. ROAD TEST

- (a) Check the engine and 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 of the parking brake shoes and drum.

25. 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 locks operate 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) Be sure to deliver a clean car. Especially check:
 - Steering wheel
 - Shift lever knob
 - All switch knobs
 - Seats

GENERAL MAINTENANCE

There are some 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 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, uneven 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 aiming.

7. WARNING LIGHT 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 air conditioner at defroster mode.

12. REAR VIEW MIRROR

Check that it is mounted securely.

13. SUN VISORS

Check that they move freely and are mounted securely.

14. STEERING WHEEL

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

15. 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.

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. BRAKE PEDAL

- (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.

19. BRAKES

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

20. PARKING BRAKE

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

21. 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 held securely with the selector lever in the "P" position and all brakes released.

UNDER HOOD

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 LEVEL lines on the see–through reservoir at normal temperature (20°C (68°F)).

24. 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.

25. BATTERY ELECTROLYTE LEVEL

Check the indicator.

When the indicator color is blue, the condition is satisfactory. A red color indicates that distilled water must be added, and white indicates that charging is necessary.

26. BRAKE FLUID LEVEL

Check that the brake fluid level is near the upper level line on the see—through reservoir.

27. ENGINE DRIVE BELT

Check drive belt for fraying, cracks, wear or oil contamination.

28. ENGINE OIL LEVEL

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

29. POWER STEERING FLUID LEVEL

Check the level on the dipstick.

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

30. AUTOMATIC TRANSMISSION FLUID LEVEL

- (a) Park the vehicle on a level surface.
- (b) With the engine idling and the parking and foot brake applied, shift the selector into all positions from "P" to "L", and then shift into "P" position.
- (c) Turn and pull out the dipstick and wipe off the fluid with a clean rag.Re-insert the dipstick fully 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)). If the level is at the low side, add fluid.

 NOTICE: Do not overfill.

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.

31. 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 correted.

SERVICE SPECIFICATIONS SERVICE DATA

Engine	Spark plug		
	Recommended spark plu	ug 2JZ–GE ND	PK16R11
		NGK	BKR5EP11
		2JZ-GTE ND	PK20R11
		NGK	BKR6EP11
	Correct electrode gap		1.1 mm (0.043 in.)
	Firing order		1-5-3-6-2-4
	Valve clearance	Intake	0.15–0.25 mm (0.006–0.010 in.)
		Exhaust	0.25-0.35 mm (0.010-0.014 in.)
Brake	Front and rear brakes		
	Pad thickness	Minimum	1.0 mm (0.039 in.)
	Disc thickness M	linimum Front 2JZ-GE	30.0 mm (1.181 in.)
		2JZ-GTE	28.0 mm (1.102 in.)
		Rear	15.0 mm (0.591 in.)
	Disc runout	Maximum	0.05 mm (0.0020 in.)
	Parking brake		
	Lining thickness	Maximum	1.0 mm (0.039 in.)
	Drum inside diameter	Maximum	191 mm (7.520 in.)
Chassis	Steering linkage		
	Steering wheel freeplay	Maximum	30 mm (1.18 in.)
	Ball joint		
	Vertical play	Maximum	0.3 mm (0.012 in.)

TORQUE SPECIFICATIONS

Part tightened		N⋅m	kgf⋅cm	ft·lbf
Spark plug x Cylinder head		18	180	13
Front seat x Body		37	375	27
Front suspension member x Body	Front side Rear side	125 200	1,280 2,040	92 148
Rear suspension member x Body		175	1,790	129
Rear suspension member rear cushion	x Body	58	590	43