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# Toyota Celica Supra MK2 -86





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# INTRODUCTION

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IN

### **HOW TO USE THIS MANUAL**

To assist in finding your way through the manual, the Section Title and major heading are given at the top of every page.

An INDEX is provided on the first page of each section to guide you to the item to be repaired.

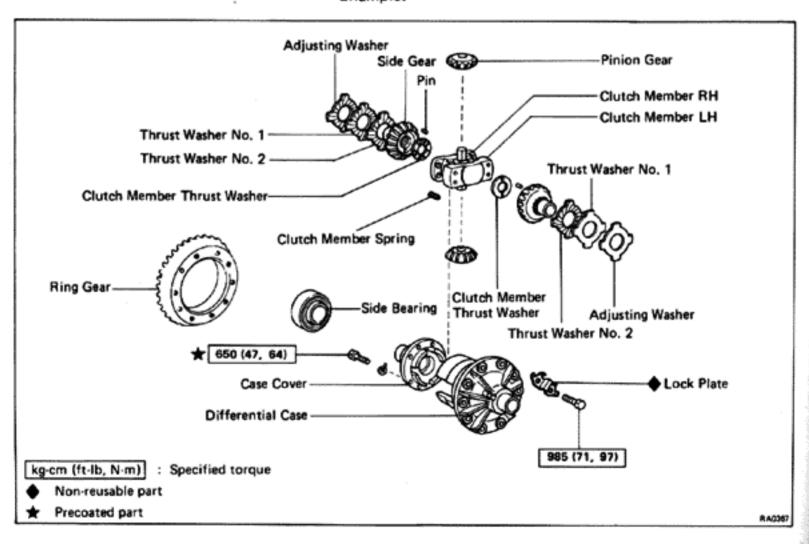
At the beginning of each section, PRECAUTIONS are given that pertain to all repair operations contained in that section. Read these precautions before starting any repair task.

TROUBLESHOOTING tables are included for each system to help you diagnose the system problem and find the cause. The repair for each possible cause is referenced in the remedy column to quickly lead you to the solution.

#### REPAIR PROCEDURES

Most repair operations begin with an overview illustration. It identifies the components and shows how the parts fit together.

#### Example:



The procedures are presented in a step-by-step format:

- The photo or illustration shows what to do and where to do
  it.
- The task heading tells what to do.
- The detailed text tells how to perform the task and gives other information such as specifications and warnings.

---

Photograph or Illustration: what to do and where Example:

Task heading: what to do

#### 21. CHECK PISTON STROKE OF OVERDRIVE BRAKE

(a) Place SST and a dial indicator onto the overdrive brake piston as shown in the figure.

SST 09350-30020 (09350-06120)

Set part No.

Component part No.

Detail text: how to do it

(b) Measure the stroke applying and releasing the compressed air (4 – 8 kg/cm², 57 – 114 psi or 392 – 785 kPa) as shown in the figure.

Piston stroke: 1.40 - 1.70 mm (0.0551 - 0.0669 in.)

- 1.70 11111 (0.000)

Specification

This format provides the experienced technician with a FAST TRACK to the information needed. The upper case task heading can be read at a glance and only when necessary, the text below it provides detailed information. Important specifications and warnings always stand out in bold type.

### REFERENCES

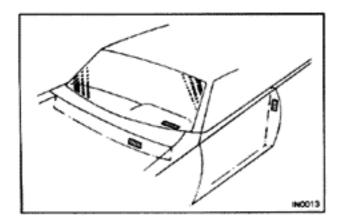
References have been kept to a minimum. However, when they are required you are given the page to go to.

#### SPECIFICATIONS

Specifications are presented in bold type throughout the text in the applicable step. You never have to leave the procedure to look up your specs. All specifications are also found in Appendex A, specifications, for quick reference.

### WARNINGS, CAUTIONS, NOTES:

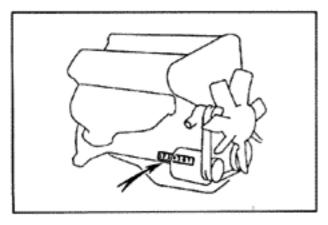
- WARNINGS are presented in bold type, and indicate there is a possibility of injury to you or other people.
- CAUTIONS are also presented in bold type, and indicate the possibility of damage to the components being repaired.
- NOTES are separated from the text but do not appear in bold. They provide additional information to help you efficiently perform the repair.



### IDENTIFICATION INFORMATION

#### VEHICLE IDENTIFICATION NUMBER

The vehicle identification number is stamped on the cowl panel of the engine compartment. This number is also stamped on top of the instrument panel and the driver's door post.

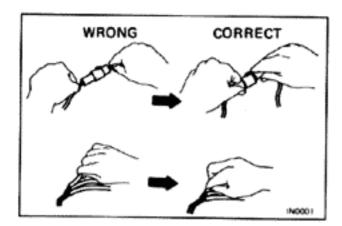


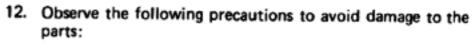
#### **ENGINE SERIAL NUMBER**

The engine serial number is stamped on the right side of the cylinder block.

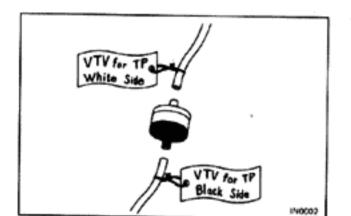
# **GENERAL REPAIR INSTRUCTIONS**

- Use fender seat and floor covers to keep the vehicle clean and prevent damage.
- During disassembly, keep parts in order to facilitate reassembly.
- 3. Observe the following:
  - (a) Before performing electrical work, disconnect the nagative from the battery terminal.
  - (b) If it is necessary to disconnect the battery for inspection or repair, always disconnect the cable from the negative (—) terminal which is grounded to the vehicle body.
  - (c) To prevent damage to the battery terminal post, loosen the terminal nut and raise the cable straight up without twisting it or prying it.
  - (d) Clean the battery terminal posts and cable terminals with a shop rag. Do not scrape them with a file or other adrasive object.
  - (e) Install the cable terminal to the battery post with the nut loose, and tighten the nut after installation. Do not use a hammer to tap the terminal onto the post.
  - (f) Be sure the cover for the positive (+) terminal is properly in place.
- Check hose and wiring connectors to make sure that they are secure and correct.





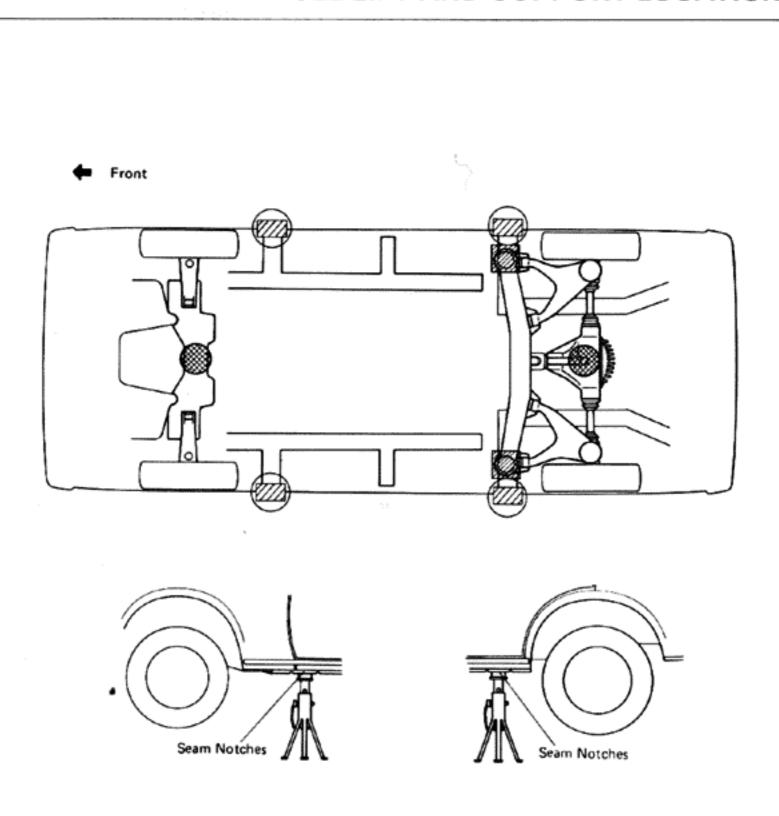
- (a) To disconnect vacuum hoses, pull on the end, not the middle of the hose.
- (b) To pull apart electrical connectors, pull on the connector itself, not the wires.
- (c) Be careful not to drop electrical components, such as sensors or relays. If they are dropped on a hard floor, they should be replaced and not reused.
- (d) When steam cleaning an engine, protect the distributor, coil, air filter, carburetor intake, air pump and VCV from water.
- (e) Never use an impact wrench to remove or install thermo switches or thermo sensors.
- (f) When checking continuity at the wire connector, insert the tester probe carefully to prevent terminals from bending.
- (g) When using a vacuum gauge, never force the hose onto a connector that is too large. Use a step-down adapter instead. Once the hose has been stretched, it may leak.



#### 13. Tag hoses before disconnecting them:

- (a) When disconnecting vacuum hoses, use tags to identify how they should be reconnected.
- (b) After completing a job, double check that the vacuum hoses are properly connected. A label under the hood shows the proper layout.

## **VEHICLE LIFT AND SUPPORT LOCATIONS**



### ABBREVIATIONS USED IN THIS MANUAL

A/C Air Conditioner Automatic Locking Retractor ALR A/T, ATM Automatic Transmission Automatic Transmission Fluid ATF Overdrive Brake Bo В, No. 1 Brake No. 2 Brake  $B_2$ No. 3 Brake  $B_3$ BDC Bottom Dead Center Before Top Dead Center BTDC Bimetal Vacuum Switching Valve BVSV Overdrive Direct Clutch C<sub>o</sub> Ċ, Front Clutch C<sub>2</sub> C/B Rear Clutch Circuit Breaker DOHC Double Over Head Cam Dash Pot DP DVV Double Vacuum Valve Electronic Controlled Transmission ECT ECU Electronic Controlled Unit Electronic Fuel Injection EFI **Exhaust Gas Recirculation** EGR Emergency Locking Retractor ELR **Evaporator Pressure Regulator** EPR Electronic Spark Advance ESA **Electronic Tuning Radio** ETR Evaporative (Emission Control) EVAP Exhaust (manifold, valve) EΧ Ex. Except Fι

Front Left Front Right FR

IG Ignition

Intake (manifold, valve) IN Independent Rear Suspension IRS

Idle Speed Control ISC

Left-hand LH Left-hand Drive LHD

Limited Slip Differential LSD

MP Multipurpose

Manual Transmission M/T, MTM

Overdrive OD OPT Option Oversize O/S

Positive Crankcase Ventilation PCV

PS Power Steering Right-hand RH Rι Rear Left Rear Right RR SED Sedan

Special Service Materials SSM Special Service Tools SST

STD Standard S/W Switch

Torque Converter T/C

Toyota Computer Controlled System TCCS

TDC Top Dead Center TWC Three-Way Catalyst

Undersize U/S

VSV Vacuum Switching Valve

With w/ w/o Without

# **MAINTENANCE**

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MAINTENANCE SCHEDULE	MA-2
MAINTENANCE OPERATIONS	MA-4
GENERAL MAINTENANCE	MA-12



#### **GENERAL NOTES:**

- Every service item in the periodic maintenance list must be performed.
- Failure to do even one item can cause the engine to run poorly and increase exhaust emissions.

### MAINTENANCE SCHEDULE

Maintenance operations: A = Check and/or adjust if necessary;

R = Replace, change or lubricate;

I = Inspect and correct or replace if necessary

#### NORMAL CONDITION SCHEDULE

System	Service interval (Odometer reading or months, whichever comes first)	Maintenance service (96,000 km) shoul intervals shown in	d be pe	rform	S				
		Miles x 1,000	10	20	30	40	50	60	See page (item No.)
	Maintenance items	Km x 1,000	16	32	48	64	80	96	,
		Months	12	24	36	48	60	72	
ENGINE	Drive belts <sup>(1)</sup>				1			1	MA-4 (item 2)
	Engine oil and oil filter*		R	R	R	R	R	R	MA-5 (item 6)
	Engine coolant(2)							R	MA-5 (item 7)
	Exhaust pipes and mountings		1		1			1	MA-6 (item 11)
FUEL	Air filter*				R			R	MA-5 (item 4)
	Fuel line and connections				T			1	MA-6 (item 10)
	Fuel filler cap gasket							R	MA-6 (item 9)
IGNITION	Spark plugs (Platinum tipped)							R	MA-5 (item 3)
EVAP	Charcoal canister							1	MA-6 (item 8)
BRAKES	Brake lining and drums			1		ı		1	MA-8 (item 14)
	Brake pads and discs (Front and rea	ar)		1		1		1	MA-7 (item 13)
	Brake line pipes and hoses			1		1		1	MA-7 (item 12)
CHASSIS	Steering linkage			1		ı		1	MA-8 (item 15)
	Ball joints and dust covers			-1		1		T	MA-9 (item 17)
	Automatic transmission, manual transmission, differential (ex. LSD) and steering gear housing oil (3)			ı		1		ı	MA-9 (item 18) MA-8 (item 16)
	Limited slip differential (LSD) oil (4)			1		R		1	MA-9 (item 19)
	Front and rear (IRS only) wheel be	arings grease (4)	T			R			MA-10 (item 21)
	Bolts and nuts on chassis and body			1		1		T	MA-11 (item 22)

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

#### NOTE:

- (1) After 60,000 miles (96,000 km) or 72 months, inspect every 10,000 miles (16,000 km) or 12 months.
- (2) After 60,000 miles (96,000 km) or 72 months, replace every 30,000 miles (48,000 km) or 36 months.
- (3) Inspect the steering gear housing for oil leakage only.
- (4) Change every 40,000 miles (64,000 km) or 48 months.

Follow the severe condition schedule if vehicle is operated mainly under one or more of the following severe conditions:

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

#### SEVERE CONDITION SCHEDULE

	Service interval (Odometer reading or months, whichever comes first)	Maintenance ser (96,000 km) sho intervals shown		See page												
System	Williams Colles Ilist)	Miles x 1,000	5	10	15	20	25	30	35	40	45	50	55	60	(item No.)	
	Maintenance items	Km x 1,000	8	16	24	32	40	48	56	64	72	80	88	96		
		Months	6	12	18	24	30	36	42	48	54	60	66	72		
Engine	Timing belt		L					(1)	R						MA-4 (item 1)	
	Drive belts (2)							ŧ						1	MA-4 (item 2)	
	Engine oil and oil filter*		R	R	R	R	R	R	R	R	R	R	R	R	MA-5 (item 6)	
	Engine coolant(3)													R	MA-5 (item 7)	
	Exhaust pipes and mountings			Γ	ī			1			1			1	MA-6 (item 11)	
FUEL	Air filter*(4)		1	ī	ı	1	1	R	1	T	I	T	I	R	MA-5 (item 4 or 5)	
	Fuel line and connections		T	Г				ī						ı	MA-6 (item 10)	
	Fuel filler cap gasket											Г		R	MA-6 (item 9)	
IGNITION			Г							Γ				R	MA-5 (item 3)	
EVAP	Charcoal canister		Т		Г		Г							1	MA-6 (item 8)	
BRAKES	Brake linings and drums		T	1	Г	ı		1		ī	Г	1		1	MA-8 (item 14)	
	Brake pads and discs (Front and rear)		Т	1		T		ı		ī		1		1	MA-7 (item 13)	
	Brake line pipes and hoses		Т	Г		1	Г			1				1	MA-7 (item 12)	
CHASSIS	Steering linkage		T	ı	Ī	ī	Г	ī	Γ	1		1	Γ	1	MA-8 (item 15)	
	Ball joints and dust covers		T	1	Г	ī	Г	ī	Г	ī	Г	1	Г	T	MA-9 (item 17)	
	Automatic transmission, manual trans differential and steering gear housing of					R				R				R	MA-9 (item 19) MA-10 (item 20) MA-8 (item 16)	
	Front and rear (IRS only) wheel bear	ngs grease(6)	T	T						R					MA-10 (item 21)	
	Bolts and nuts on chassis and body(7)			1	Г	1	Г	1	Г	1		1		1	MA-11 (item 22)	

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

#### NOTE:

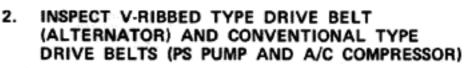
- (1) For the vehicles frequently idled for extensive periods and/or driven for long distance at low speeds such as taxi, police and door-to-door delivery, it is recommended to change at 60,000 miles (96,000 km).
- (2) After 60,000 miles (96,000 km) or 72 months, inspect every 10,000 miles (16,000 km) or 12 months.
- (3) After 60,000 miles (96,000 km) or 72 months, replace every 30,000 miles (48,000 km) or 36 months.
- (4) Applicable when operating mainly on dusty roads. If not, follow the normal condition schedule.
- (5) Inspect the steering gear housing for oil leakage only.
- (6) Change every 40,000 miles (64,000 km) or 48 months.
- (7) Applicable when operating mainly on rough and/or muddy roads. If not, follow the normal condition schedule.

### MAINTENANCE OPERATIONS

# ENGINE Cold Engine Operations

#### 1. REPLACE TIMING BELT

- (a) Remove the timing belt.(See pages EM-11 to 13)
- (b) Install the timing belt.(See pages EM-15 to 17)



(a) Visually check the belt for separation of the adhesive rubber above and below the core, core separation from the belt side, severed core, separation of the rib from the adhesive rubber, cracking or separation of the ribs, torn or worn ribs or cracks in the inner ridges of the ribs. Conventional type only: Check that the belt does not touch the bottom of the pulley groove.

If necessary, replace the drive belt.

(b) Using a belt tension gauge, check the drive belt tension.



Nippondenso BTG-20 (95506-00020) or Borroughs No. BT-33-73F

Drive belt tension:

V-ribbed type Used belt 135 ± 20 lb

New belt 170 ± 10 lb

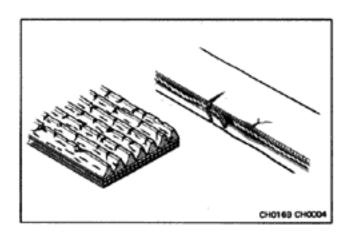
Conventional type Used belt 80 ± 20 lb

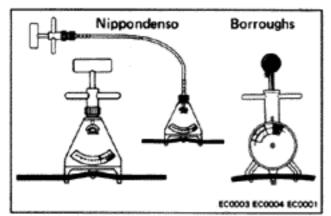
New belt 125 ± 25 lb

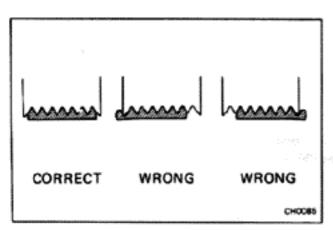
If necessary, adjust the drive belt tension.

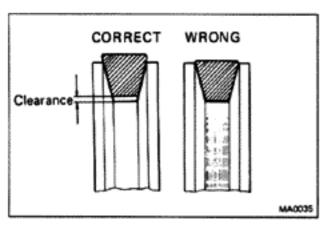
#### NOTE:

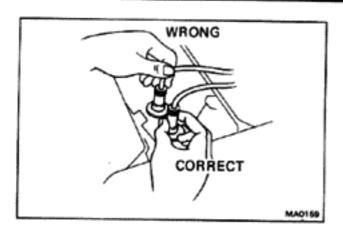
- "New belt" refers to a belt which has been used less than 5 minutes on a running engine.
- "Used belt" refers to a belt which has been used on a running engine for 5 minutes or more.
- After replacing the drive belt, check that it fits properly in the ribbed grooves, especially in the places difficult to see.
- After installing a new belt, run the engine for about 5 minutes and then recheck the tension.





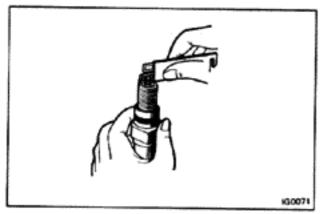






### 3. REPLACE SPARK PLUGS (PLATINUM TIPPED)

- (a) Disconnect the spark plug wires at the boot.
   DO NOT pull on the wires.
- (b) Remove the spark plugs.



(c) Check the gap on the new plugs.

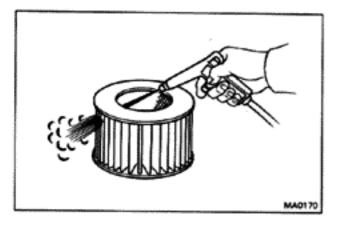
Gap: 1.1 mm (0.043 in.)

Recommended spark plugs:

ND P16R

NGK BPR5EP11

NOTE: 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.



#### 4. INSPECT AIR FILTER

- (a) Visually check that the air cleaner element is not excessively dirty, damaged or oily.
- (b) Clean the element with compressed air.
  First blow from the back side thoroughly. Then blow off the front side of the element.

#### 5. REPLACE AIR FILTER

Replace the air cleaner element with a new one.

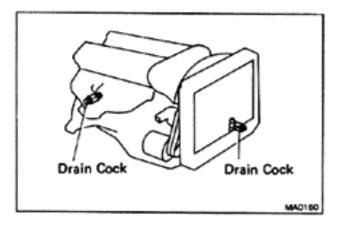
THE CHES AND

# REPLACE ENGINE OIL AND OIL FILTER (See page LU-3)

Engine oil grade:

API grade SF or SF/CC, multigrade viscosity and fuelefficient oil

Engine oil capacity (Drain and refill with oil filter change): 5.1 liters (5.4 US qts, 4.5 lmp. qts)



#### 7. REPLACE ENGINE COOLANT

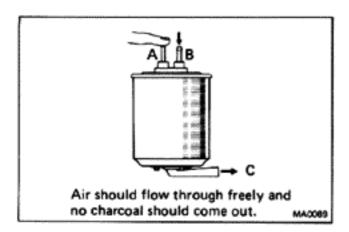
- (a) Drain the coolant from the radiator and engine drain cocks. (Engine drain is at right rear of engine block.)
- (b) Close the drain cocks.
- (c) Fill system with coolant.

Coolant capacity (w/ heater or air conditioner):

M/T 8.0 liters (8.5 US qts, 7.0 Imp. qts)

A/T 7.9 liters (8.3 US qts, 7.0 Imp. qts)

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



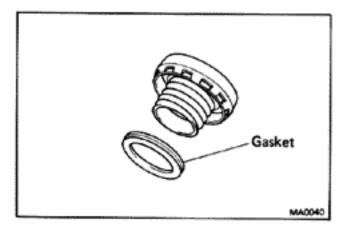
#### 8. INSPECT CHARCOAL CANISTER

- (a) Disconnect the hoses to the charcoal canister located near the rear exhaust manifold. Label the hoses for correct installation.
- (b) Plug pipe A with your finger and blow compressed air (3 kg/cm², 43 psi or 294 kPa) through pipe B (fuel tank side).
  - Check that air comes out of the bottom pipe C without resistance.
  - Check that no activated charcoal comes out.

If necessary, replace the charcoal canister.

NOTE: Do not attempt to wash the charcoal.

(c) Connect the hoses to the charcoal canister.



#### 9. REPLACE GASKET IN FUEL FILLER CAP

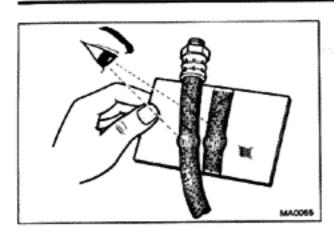
- (a) Remove the old gasket (O-ring) from the fuel filler cap. Do not damage the cap.
- (b) Install the new gasket by hand.
- (c) Inspect the cap for damage or cracks.
- (d) Install the cap and check the torque limiter.

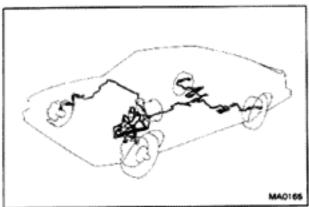
#### INSPECT FUEL LINES AND CONNECTIONS (See page FI-57)

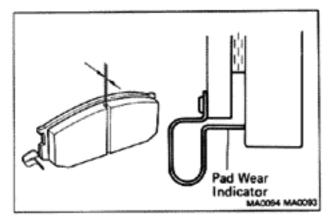
Visually inspect the fuel lines for cracks, leakage, loose connections, deformation or tank band looseness.

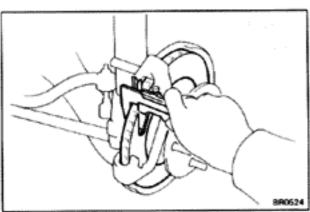
#### 11. INSPECT EXHAUST PIPES AND MOUNTINGS

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









#### BRAKES

#### 12. INSPECT BRAKE LINE PIPES AND HOSES

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

- (a) Check all brake lines and hoses for:
  - Damage
- Corrosion

Wear

- Leaks
- Deformation
- Bends
- Cracks
- 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.

# 13. INSPECT FRONT AND REAR BRAKE PADS AND

(Front: See page BR-14, Rear: See page BR-20)

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

Minimum pad thickness: 3.0 mm (0.118 in.)

NOTE: If a squealing or scraping noise occurs from the front or rear brakes during driving, check the pad wear indicator. If there are traces of the indicator contacting the disc rotor, the disc pad should be replaced.

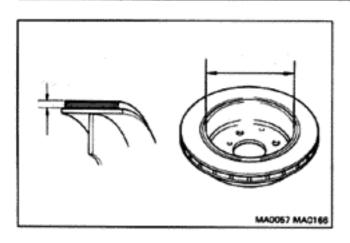
(b) Check the disc for wear or runout.

Minimum disc thickness:

Front 19.0 mm (0.748 in.)

Rear 17.0 mm (0.669 in.)

Maximum disc runout: 0.15 mm (0.0059 in.)



# 14. INSPECT PARKING BRAKE LININGS AND DRUMS (See page BR-26)

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

Minimum lining thickness: 1.0 mm (0.039 in.)

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

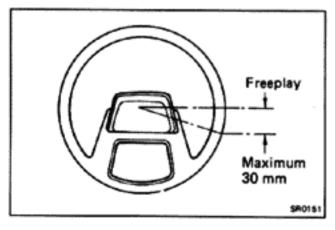
Maximum drum inside diameter: 168 mm (6.61 in.)

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

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

- (d) Bed down the parking brake shoes and drum. When performing the road test in item 24, do the following:
  - Drive the vehicle at about 30 mph (50 km/h) on a safe, level and dry road.
  - With the parking brake release button pushed in, pull on the lever with 20 lb (9 kg, 88 N) of force.
  - Drive the vehicle for about 1/4 mile (400 meters) in this condition.
  - Repeat this procedure 2 or 3 times.
  - Check parking brake lever travel.

If necessary, adjust the parking brake.



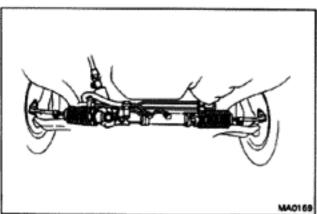
#### **CHASSIS**

#### 15. INSPECT STEERING LINKAGE

(a) Check that the steering wheel freeplay.

Maximum steering wheel freeplay: 30 mm (1.18 in.)

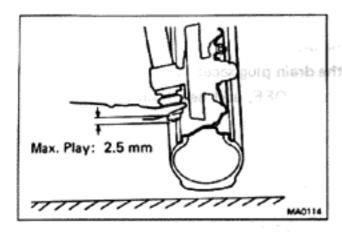
With the vehicle stopped and pointed straight ahead, rock the steering wheel gently back and forth with light finger pressure.

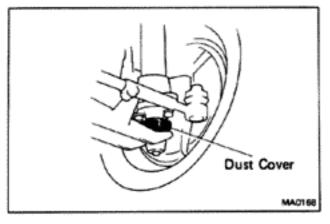


- (b) Check the steering linkage for looseness and damage. Check that:
  - Tie rod ends so not have excessive play.
  - Dust seals and boots are not damaged.
  - Boot clamps are not loose.

#### 16. INSPECT STEERING GEAR HOUSING

Check the steering gear housing for oil leakage.





#### 17. 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.
  - Make sure the front wheels are in a straightforward 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: 2.5 mm (0.098 in.)

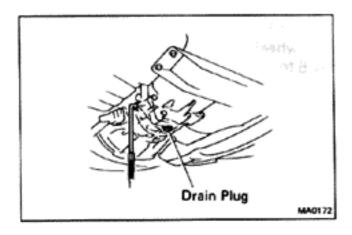
If excessive play is found, replace the ball joints.

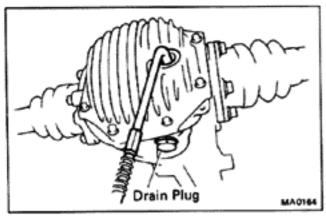
(b) Inspect the dust cover for damage.



Visually check the automatic transmission or manual transmission and differential for oil leakage.

If leakage is found, check for cause and repair.





# 19. REPLACE MANUAL TRANSMISSION AND DIFFERENTIAL OIL

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

Transmission oil -

Oil grade: API GL-4 or GL-5

Viscosity: SAE 75W-90 or 80W-90

Capacity: 2.4 liters (2.5 US qts, 2.1 Imp. qts)

Differential oil -

Oil grade: API GL-5 hypoid gear oil or for LSD oil

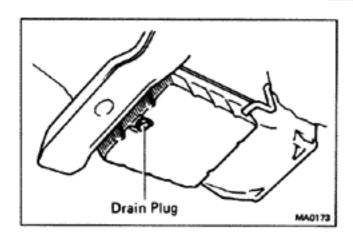
(LSD only)

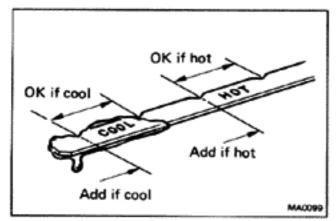
Viscosity: Above -18°C (0°F) SAE 90

Below -18°C (0°F) SAE 80W-90

or 80W

Capacity: 1.2 liters (1.3 US qts, 1.1 Imp. qts)





#### 20. REPLACE AUTOMATIC TRANSMISSION FLUID

- (a) Remove the drain plug and drain the fluid.
- (b) Reinstall the drain plug securely.
- (c) With the engine OFF, add new fluid through the dipstick tube.

Fluid: ATF DEXRON® II

Drain and refill capacity:

2.4 liters (2.5 US qts, 2.1 Imp. qts)

Dry fill capacity:

6.5 liters (6.9 US qts, 5.7 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.

CAUTION: Do not overfill.

SEE PAGES FA-6 to 9

SEE PAGES RA-5 to 11

# 21. REPACK FRONT AND REAR (IRS ONLY) WHEEL BEARINGS

(a) Change the front wheel bearing grease. (See pages FA-6 to 9)

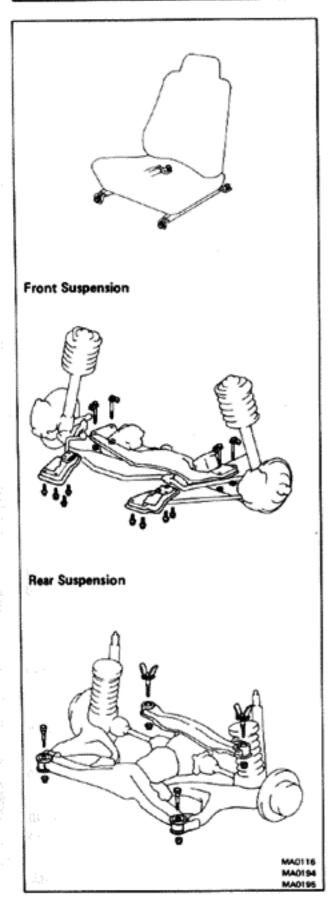
Grease grade: Multipurpose grease (NLGI No. 2) .

Front wheel bearing friction preload (while turning): 0 - 1,050 g (0 - 2.3 lb, 0 - 10 N)

In addition to oil seal frictional force

(b) IRS Type Rear Axle

Change the rear wheel bearing grease.
(See pages RA-5 to 11)



# 22. TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY

Tighten the following parts:

· Front seat mountings bolts

Torque: 375 kg-cm (27 ft-lb, 37 N·m)

 Front suspension member-to-body mounting bolts and nuts

Torque: 800 kg-cm (58 ft-lb, 78 N·m)

 Rear suspension member-to-body mounting bolts and nuts

Torque: 1,200 kg-cm (87 ft-lb, 118 N-m)

• Strut bar bracket-to-body mounting bolts

Torque: 425 kg-cm (31 ft-lb, 42 N·m)

#### 23. FINAL INSPECTION

- (a) Check the operation of the body parts:
  - Hood Auxiliary catch operates properly Hood locks securely when closed
  - Front doors
     Door locks operate properly
     Doors close properly
  - Lift back door
     Door lock operates properly
  - Seats
     Seat adjusts easily and locks securely at any position

     Front seat back locks securely at 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 and especially check:
  - Steering wheel
  - Shift lever knob
  - All switch knobs
  - Door handles
  - Seats

### 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

#### TIRES

- (a) Check the pressure with a gauge. If necessary, adjust.
- (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. If necessary, replace.

#### 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.

#### DOORS AND ENGINE HOOD

- (a) Check that all doors including the trunk lid, back door and tailgate 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. WARNING LIGHTS AND BUZZERS

Check that all warning lights and buzzers function properly.

#### HORN

Check that it is working.

#### 10. WINDSHIELD GLASS

Check for scratches, pits or abrasions.

#### and 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.

#### 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 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.