



OWNER'S MANUAL

TOYOTA CROWN

FOREWORD

Thank you very much for choosing our Toyota Crown as your new car.

With proper handling and care, your new Toyota Crown will give you many years of driving pleasure and service.

This manual contains important information on how to operate, maintain and enjoy your new car, describing various features designed in the new Crown. We recommend that you make yourself familiar with details covered in this manual.

This manual is mainly based on the SEDAN, and gives additional features covering the WAGON and PICK-UP series, and also this manual is edited on Right Hand Drive (RHD) cars.

Our world network of Toyota Distributors and Dealers provided you with the best possible service with well trained staff and facilities. Have them inspect your car and follow their suggestions for better driving.

TOYOTA MOTOR SALES CO., LTD.

All information and specifications contained in this manual are the most up-to-date at the time of printing, and we reserve the right to make changes at any time without notice.

CONTENTS

INSTRUMENTS & CONTROLS	3
STARTING & DRIVING	17
MAINTENANCE	21
RECOMMENDED PETROLEUM PRODUCTS ...	37
QUALITY CARE SCHEDULE	38
TROUBLE DIAGNOSIS	40
AVAILABLE EXTRAS	41
GENERAL SPECIFICATIONS	43
ELECTRICAL WIRING DIAGRAM	Annex



TOYOTA CROWN



SEDAN



HARDTOP



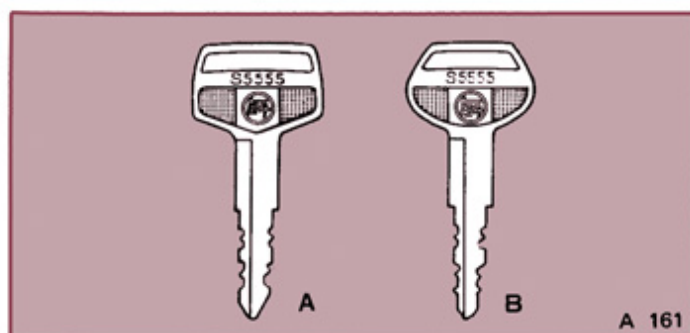
WAGON



PICK-UP



INSTRUMENTS & CONTROLS



KEYS

Master Key (A)

1. Ignition switch
2. Doors
3. Glove compartment
4. Luggage compartment
5. Fuel filler cap

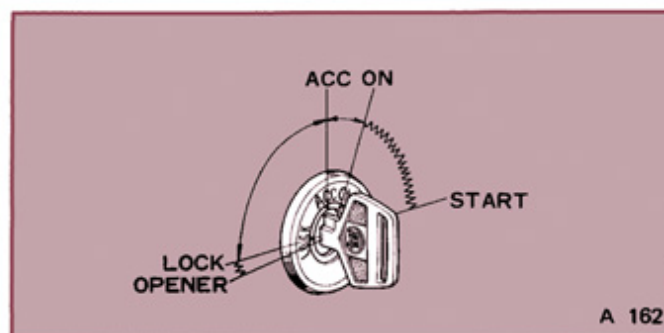
Sub-key (B)

1. Ignition switch
2. Doors
3. Fuel filler cap

The key can be used either side up.

The key number should be recorded. For replacement of lost keys, contact your TOYOTA DEALER.

Remember always to take the key and to lock all the doors when leaving your car unattended.



IGNITION SWITCH

START — for starting the engine. When released, the key returns to "ON" position.

ON — for normal operation after the engine has been started.

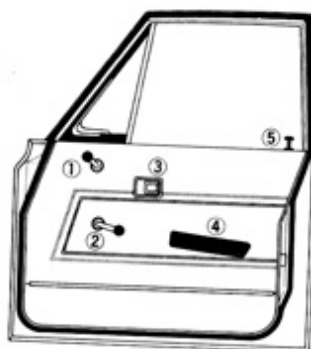
ACC — for operating accessories (radio, etc.)

LOCK — This is the steering lock position. The key can only be withdrawn in this position. Turn the steering wheel slightly to facilitate unlocking.

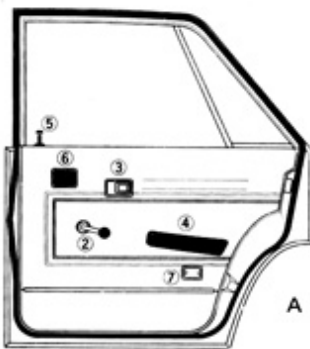
OPENER (see page 15)

Car for the U.S.A., is provided with a warning buzzer. If the driver's side door is opened without removing the key from "LOCK" position of the ignition switch, the buzzer will sound to warn.

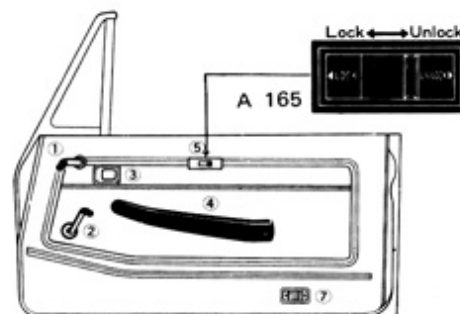
DOORS



A 163



A 164

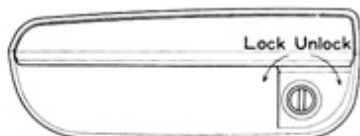


A 147

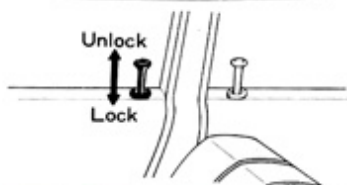
1. Ventilator Window Handle
2. Window Regulator Handle
3. Door Inside Handle
4. Armrest & Grip
5. Door Inside Locking Button
6. Ash Tray
7. Courtesy Light

When driving, the locking button should be pushed down or slid forward. The door cannot be opened except the driver's side door by pulling the inside door handle unless lifting up the button.

DOOR LOCK



E 016



A 030

The door can be locked without use of the key. Push down or slide forward the locking button 5, lift the outer door handle up and close the door. Be careful not to leave the key inside the car when locking the doors as described here.

MAGNETIC DOOR LOCK (MS55-F)

Lock the driver's side door using the key or the locking button, then the other three doors are automatically locked with the magnetic solenoid.

Unlock the driver's side door using the key, then the other three doors are automatically unlocked.

The co-driver's side door can be unlocked with the key regardless of the other doors.

POWER WINDOW (MS55-F, 51S)

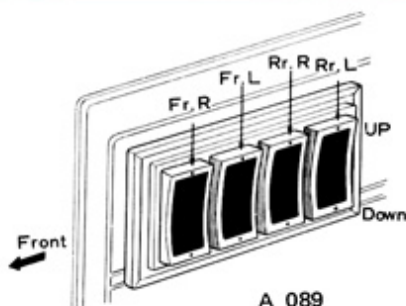
Each window controlled by master switch located on the driver's side door or on the console box. Also individual switch is provided on each door.

On the car model MS51(L)S, the power window is provided on rear quarter window only.

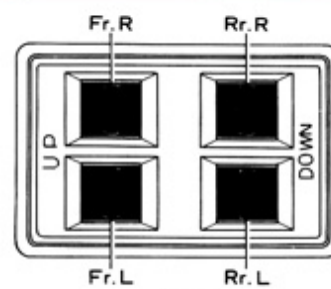
CAUTION: Do not operate simultaneously both the master and the individual door switches in the opposite direction.

TAIL GATE (Wagon)

To open the tail gate, lower window glass fully and then pull the lock lever leftward. To raise the window, close first the glass securely.



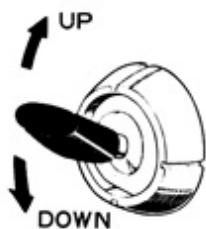
A 089



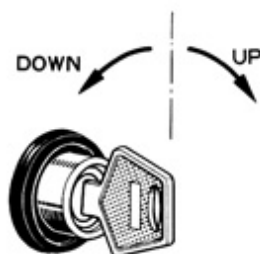
A 151



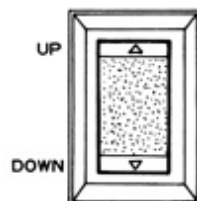
A 090



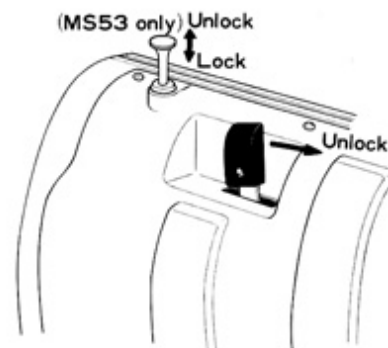
E 014



A 033

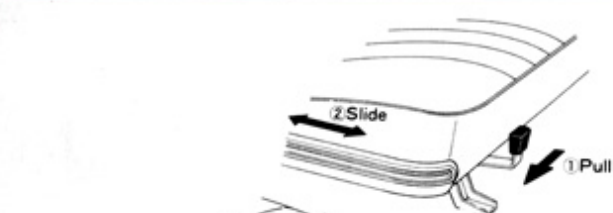


A 156

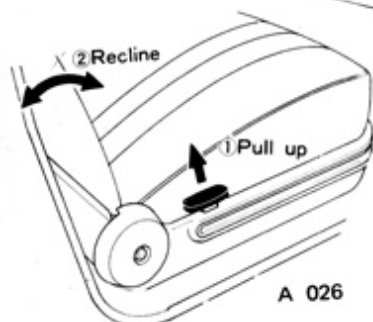


A 035

SEATS

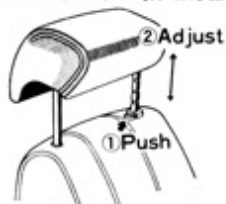


A 025

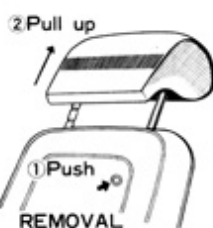


A 026

HEADREST (if installed)



ADJUSTMENT A 138

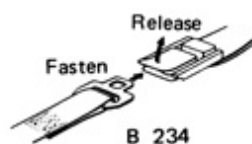


REMOVAL
A 139

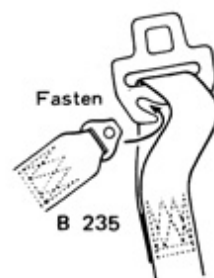


A 166

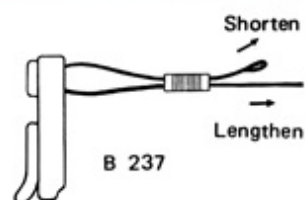
SEAT BELTS (if installed)



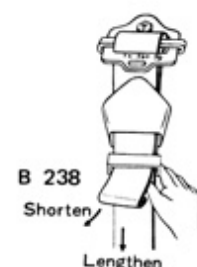
B 234



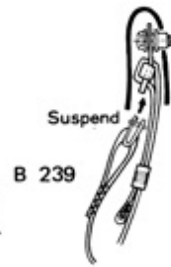
B 235



B 237



B 238



B 239

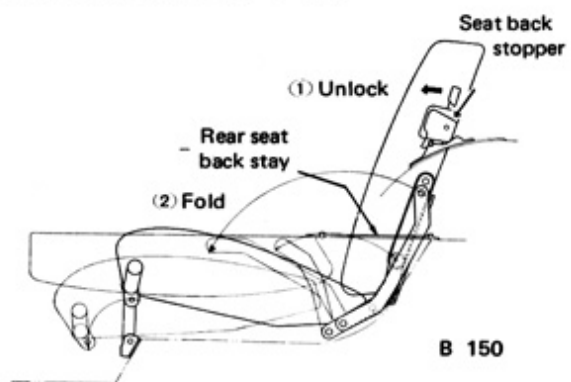
A 167



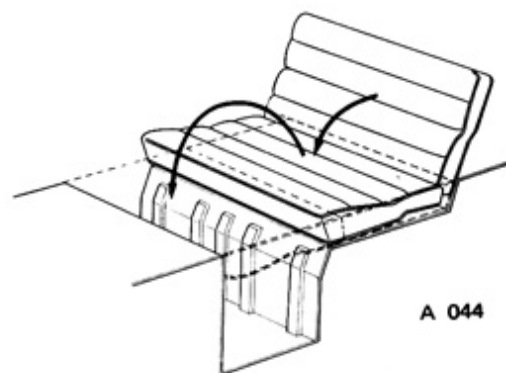
CAUTION:

When adjusting the lap belt, the retractor side belt must be fully pulled out, and then adjust length of the buckle side belt to fit your body.

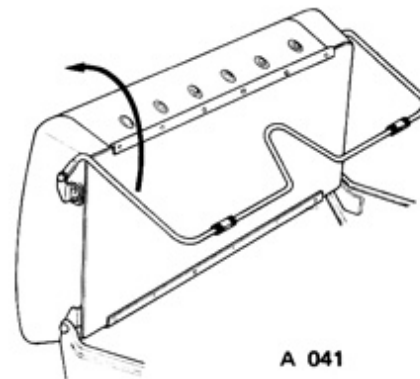
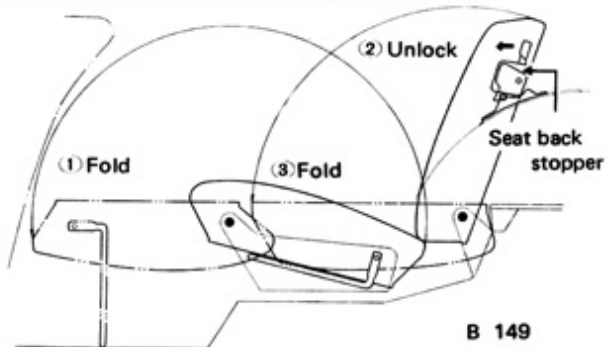
FOLDING REAR SEAT (MS53)



THIRD SEAT (MS53)

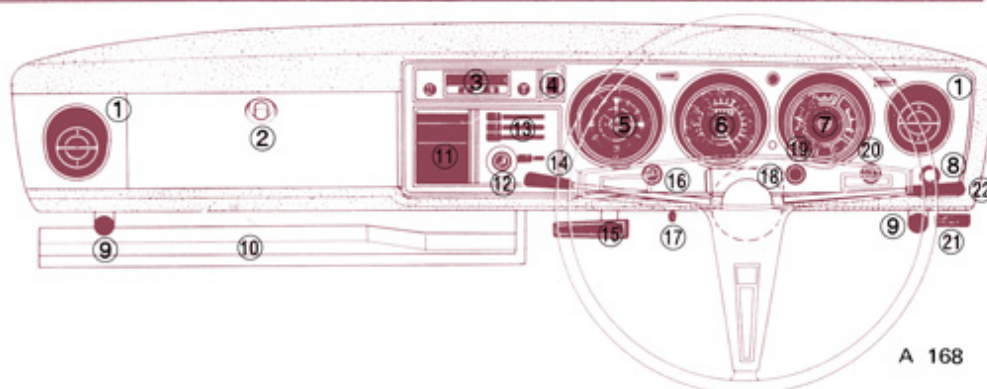


FOLDING REAR SEAT (MS57V, RS56V)



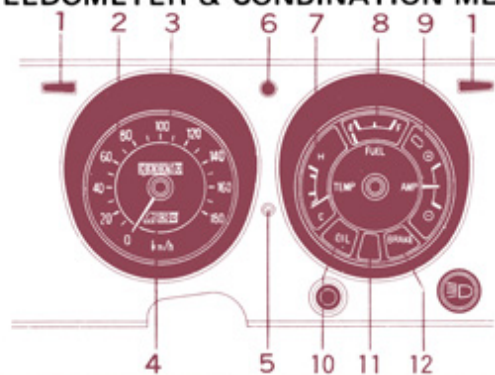
INSTRUMENT PANEL

1. Ventilation Louver
2. Glove compartment
3. Radio
4. Radio & Antenna Switch
5. Clock
6. Speedometer
7. Combination meter
8. Hazard Warning Light Switch
9. Cowl Ventilator Control Knob
10. Under Tray
11. Ash Tray
12. Cigarette Lighter
13. Heater Control
14. Gearshift Lever
15. Parking Brake Lever
16. Wiper & Washer Switch
17. Rear Window Defogger Switch (MS55-F)
Tail Gate Window Switch (Wagon)
18. Steering Lock/Ignition Switch
19. Overdrive Control Knob
20. Lighting Switch
21. Hood Lock Releasing Lever
22. Turn Signal, Dimmer & Headlight Flasher Switch



A 168

SPEEDOMETER & COMBINATION METER



A 002

1. **Turn Signal Indicator Lights**

2. **Speedometer** indicates the car forward speed in kilometers or miles.

3. **Odometer** registering the total distance driven acts as a remainder for your periodic maintenance.

4. **Trip Meter** (if installed) indicates the travelling distance per day or trip.

5. **Trip Meter Resetting Knob** (if installed) is turned clockwise to reset to "0000".

6. **Headlight High-beam Indicator Light** will glow purple whenever the high-beam is in use.

7. **Temperature Gauge** should register at about the center under normal driving conditions. On the car equipped with Air Injection System, the pointer may frequently move beyond the center. The pointer moving near or over "H" mark indicates overheating.

120°C (250°F)
100°C (210°F)
Approx. 80°C (176°F)
50°C (112°F)



8. **Fuel Gauge** registers fuel quantity in the tank when the car is level. The "F" indicates a full tank. At "E" fuel remains less than 4 liter (1 gal.) only, refill as soon as possible.

9. **Charge Warning Light & Ammeter** — If the warning light glows red at normal driving conditions, have the charging system checked. The ammeter pointer should be deflected slightly to the positive side at normal driving conditions.

10. **Oil Pressure Warning Light** glows red while the engine is running, stop the engine and check the oil level or lubrication system.

11. **Overdrive Warning Light** (if installed) glows green when the overdrive is ready to be applied.

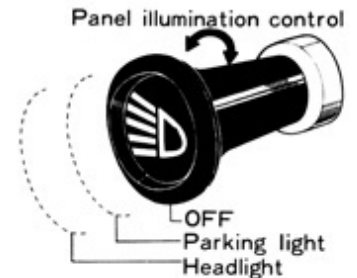
12. **Brake System Warning Light** has dual purpose. The light glows red when the parking brake is applied with the ignition switch "ON" to warn that the parking brake has not been fully released. This also indicates that the brake warning light is operative. If the light does not come on, check the bulb, fuse or wiring. The other function is to indicate a malfunction in the brake system. The light will come on if the brake fluid pressure does not develop in either the front or rear brake lines while braking. In this event, have your Toyota Distributor or Dealer locate and correct the trouble immediately. This brake line warning system is standard equipment on cars with disc brake.

HAZARD WARNING LIGHT SWITCH



A 169
Pulling this switch will make the four turn signal lights flash simultaneously to indicate danger or emergency.

LIGHTING SWITCH



E 004

OVERDRIVE CONTROL KNOB (if installed)



A 005

To lock out the overdrive mechanism, pull out this knob (see page 20).

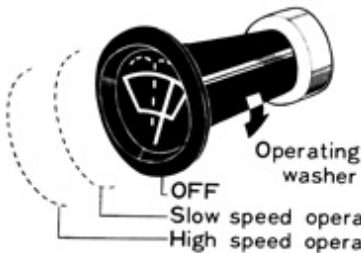
CLOCK (if installed)



A 101

To set the clock hands, pull out the knob and turn it either way. If the dater is provided, turn the knob clockwise without pulling to change the date.

WIPER & WASHER SWITCH



E 007

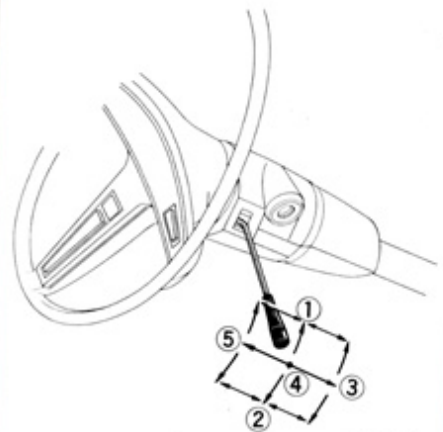
Do not operate washer when the washer tank is empty.

HORN BUTTON



A 170

TURN SIGNAL, DIMMER & HEADLIGHT FLASHER SWITCH

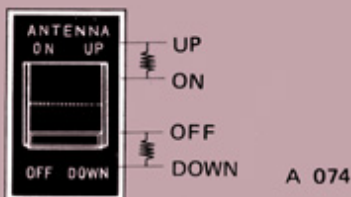


A 171

1. Left turn signal
2. Right turn signal
3. High-beam
4. Low-beam
5. Headlight flasher

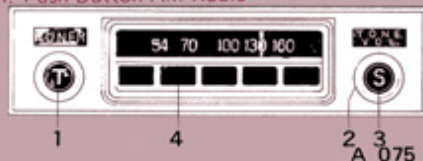
All four headlights can be flushed to warn other driver when passing, by pulling the lever repeatedly regardless of the lighting switch position. (except U.S.A.)

RADIO (if installed) Radio and Antenna Switch



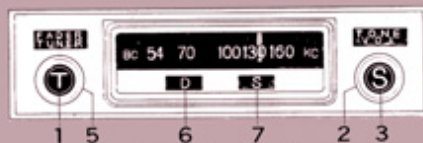
A 074

A. Push Button AM Radio

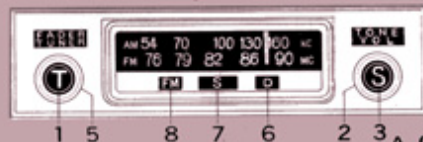


A 075

B. Automatic Tuning AM Radio



C. Automatic Tuning AM-FM Radio

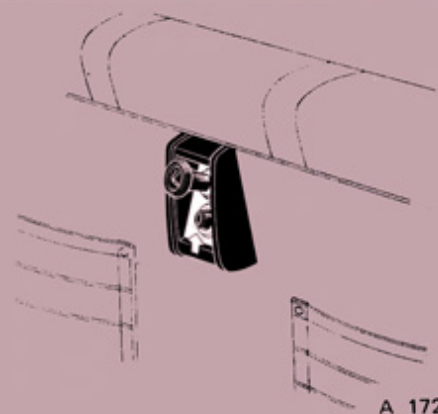


A 078

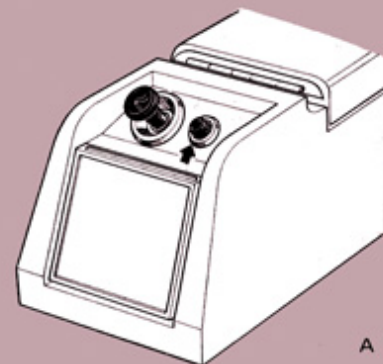
The radio and antenna switch can be operated when the ignition key is at "ON" or "ACC" position. When the engine is not running, the key must be positioned at "ACC".

1. Manual Tuning Knob
2. Tone Control Knob
3. Volume Control Knob (A)
Volume & Automatic Search Control Knob (B, C) — Turn the knob either way to control volume. Push the knob, the indicator stops at the selected station about five seconds, then moves to the next station automatically. If desired station is selected, push the knob again.
4. Push Button — To set the push buttons; Pull out the button all the way and dial desired station manually, then push in the button all the way.
5. Fader Control Knob — Turn the knob either way to balance the front and rear speakers.
6. Sensitivity Control Button — To increase search sensitivity, push the button. To reset, push it again.
7. Quick Automatic search button — For quick tuning to your desired station, push the button to move the indicator continuously, and hand off when the indicator comes near the station.
8. FM-AM Selecting Button — To receive FM broadcasts, push the button. To re-switch to AM station, push the button again.

The search button is installed also in the front-seat back or console box.

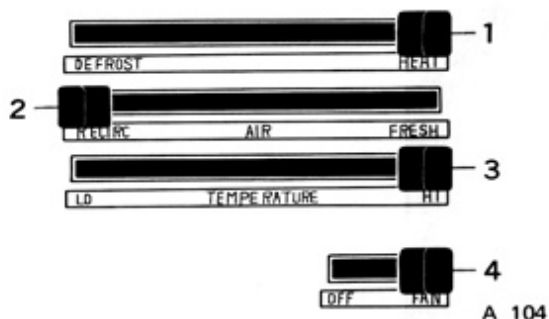


A 172



A 173

HEATER (if installed)



1. Air flow direction control lever
2. Air intake control lever
3. Temperature control lever
4. Blower motor (fan) switch

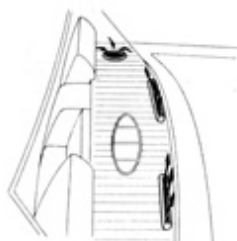
OPERATION:

Lever Position

Maximum heating : 1. HEAT 2. RECIRC 3. HI 4. HIGH
 Maximum Defrosting: 1. DEFROST 2. RECIRC 3. HI 4. HIGH
 Maximum Defogging : 1. DEFROST 2. FRESH 3. HI 4. HIGH
 Boost Ventilation : 1. HEAT 2. FRESH 3. LO 4. HIGH

Note: If the lever is positioned at "DEFROST", air will come out from the instrument louvers.

REAR WINDOW DEFOGGER (MS55-F)

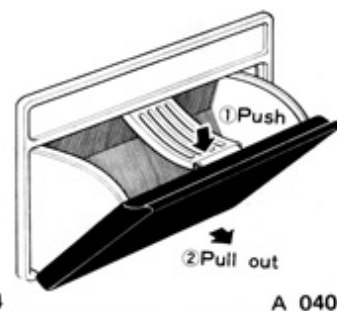
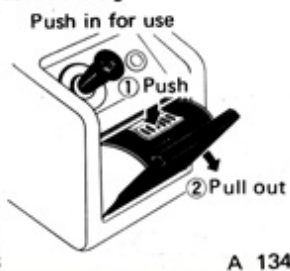
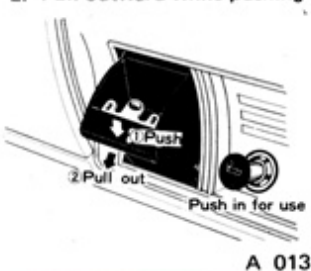


To operate, pull out the switch knob located under the instrument panel. (see page 8)

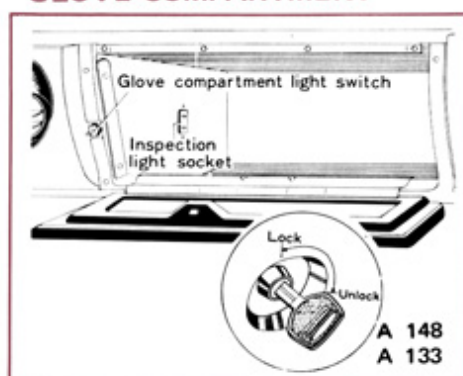
ASH TRAY & CIGARETTE LIGHTER

To remove the tray for cleaning:

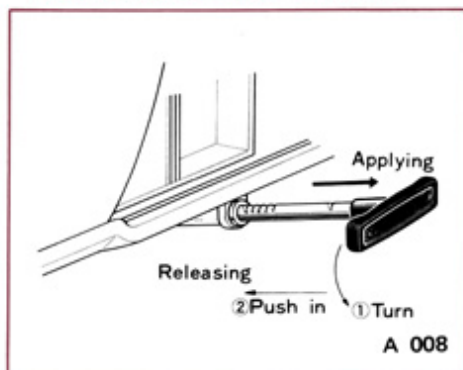
1. Pull outward while pushing it down.
2. Pull outward while pushing down the cigarette snuffer.



GLOVE COMPARTMENT



PARKING BRAKE LEVER

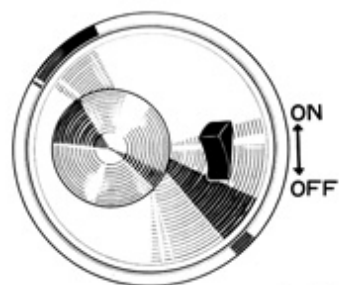
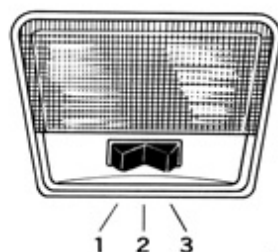


INTERIOR LIGHTS

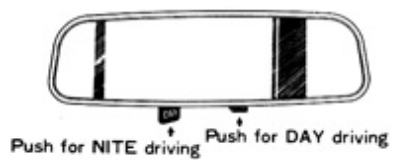
1. OFF

2. ON

3. Lights when opening the door.

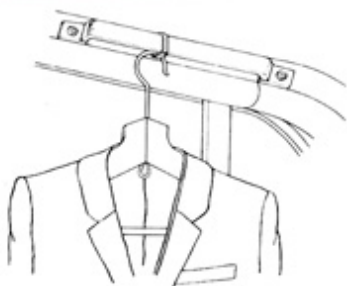


REAR VIEW MIRROR (Non-glade Type - if installed)



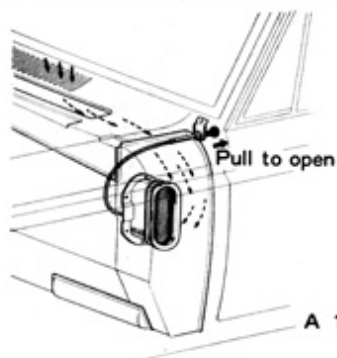
A 024

ASSIST GRIP & COAT HANGER (MS55-F,-D, 53)



A 107

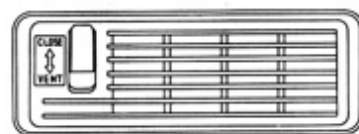
VENTILATION SYSTEM



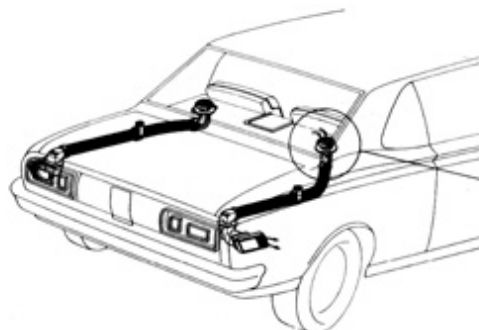
A 152



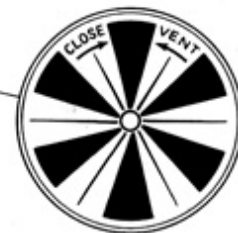
A 014



A 038

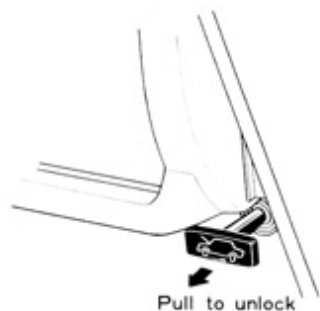


A 117

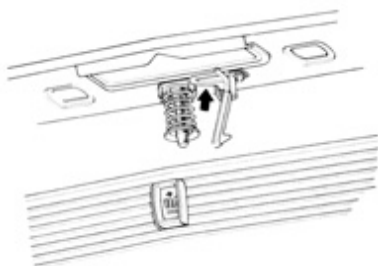


A 135

ENGINE HOOD

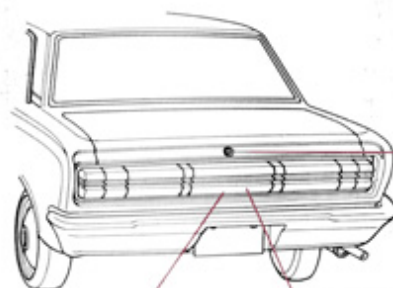


A 011



A 174

LUGGAGE COMPARTMENT & FUEL INLET



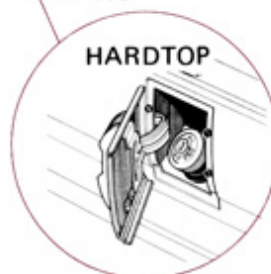
A 175



A 043



A 176



A 119



A 141

MAGNETIC LUGGAGE COMPARTMENT DOOR OPENER (MS55-F, -D)

Turn the ignition key fully counterclockwise (see page 3), the luggage compartment door is automatically unlocked and opened slightly.

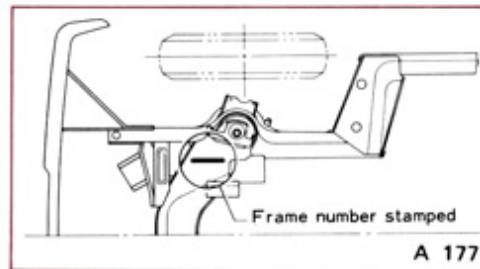
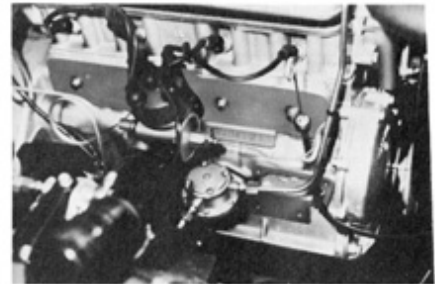
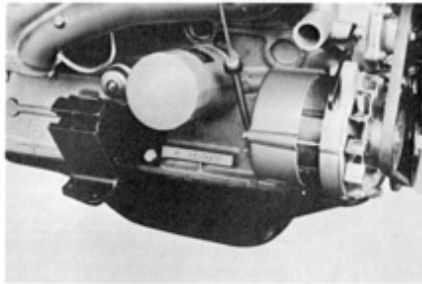
ENGINE & VEHICLE SERIAL NUMBERS

The vehicle identification plate is located on the front fender in the engine compartment.

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

The frame number is stamped in the right upper surface of the front upper cross-member.

The body number is stamped in the upper center of the dash panel.



TOYOTA SPARE PARTS
are readily available
throughout the world.
Insist on GENUINE
TOYOTA SPARE PARTS.



STARTING & DRIVING

STARTING THE ENGINE

Before Starting the Engine.....

Keep the following items in mind before turning the ignition key.

1. Shift the gear into neutral, and depress the clutch pedal all the way (Manual Transmission).
2. Place the selector lever in "P" (Park) or "N" (Neutral), and apply brakes (Toyoglide Transmission).
3. Depress the accelerator pedal once all the way and release the pedal. This will set the automatic choke to fast idle position.
4. Check to see if the three warning lights of the combination meter light up to indicate proper functioning when the ignition key is turned "ON".
5. Do not leave the ignition key at "ON" position without running the engine.
6. Do not run the starter motor longer than 20 seconds at a time.
7. Do not turn the ignition key to "START" position after the engine has been started.

Starting a Cold Engine.....

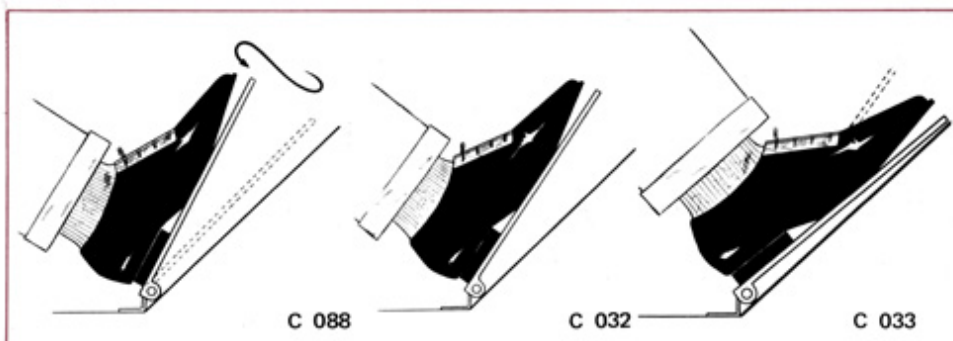
1. Depress the accelerator pedal fully once or several times.
2. Turn the ignition key to START without depressing the accelerator pedal.
3. After operating the engine for a while, tap the accelerator pedal to reduce the engine revolution to the normal idling speed.

Starting a Warm Engine.....

Depress the accelerator pedal slightly, then start the engine.

Starting a Flooded Engine.....

Depress the accelerator pedal fully down until the engine starts.



DRIVING THE CAR

New Car Operation Tips.....

The longevity and future performance of your TOYOTA CROWN will be determined by how you operate and care the car while it is new. The following instruction should be carefully followed in order to assure its long life with more economy.

1. Try to operate the car after the engine has been properly warmed up.
2. Avoid racing the engine without load.
3. Avoid fast starts at wide-open throttle and hard stops if possible.
4. Downshift the gear when the car speed goes down, tuning corners or climbing steep hills before the engine starts to labor.
5. Drive at moderate speeds and accelerate smoothly, but do not drive at sustained constant speeds.

Toyoglide Automatic Transmission.....

← The selector lever can be moved by pushing or pulling in that condition.

← The selector lever can be moved with the lever pulled toward the steering wheel (Column Shift) or lock button pushed in (Floor Shift).



P

↑ ↓

R

↑ ↓

N

↑ ↓

D

↑ ↓

2

↑ ↓

L

↑ ↓

Parking Range:

For parking the car. Engine can be started. Fully stop before shifting into "P".

Reverse Range:

For backing the car. Fully stop before shifting into "R".

Neutral Range:

Out of gear position. Engine can be started.

Drive Range:

For normal city and highway driving.

Second Range:

For increased acceleration, hill climbing and engine braking.

Low Range:

For heavy pulling and engine braking on steep hills. Do not shift into "L" on slippery roads.

Maximum Permissible Speed
Low Range — 55 km/h (35 mph)
Second Range — 90 km/h (55 mph)

For fast acceleration and for car-passing, depress the accelerator pedal once fully to operate the KICK-DOWN. During this operation, leave the selector lever at "D", and the transmission shifts down automatically. To shift back to high gear, lift you foot off the accelerator pedal momentarily.

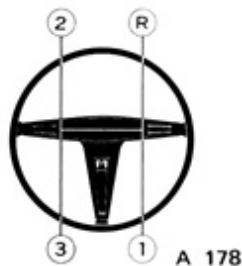
When parked on a slope, the car may be still locked even after shifting the lever into other range from "P".

For backward starting on an uphill, shift to "D" and forward the car a little as a preliminary step, then shift to "R" for backing. For forward starting on a downhill, shift into "R" and back the car a little as a preliminary step, then shift into "D" to forward the car.

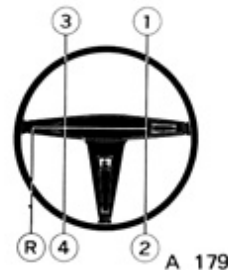
At the speed below 90 km/h (55 mph), you can shift into "L" for engine braking regardless of the car speed. In this case, the transmission shifts down to second gear than low gear automatically.

Manual Transmission.....

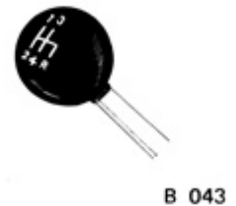
1. Three-Speed & Three-Speed w/Overdrive (Column Shift)



2. Four-Speed (Column Shift)



3. Four-Speed (Floor shift)



Carefully downshift to avoid engine over-running. The maximum permissible speed of each gear range is as follows.

Km/h (mph)

	MS55-D,53 w/Overdrive	MS55-D,55,53,57V-D w/4 Speed T.	MS55,57V-D w/3 Speed T.	RS56V,56 w/3 Speed T.	RS56V,56 w/4 Speed T.
First	40 (25)	40 (25)	45 (28)	40 (25)	35 (22)
Second	75 (47)	70 (44)	80 (50)	75 (47)	60 (38)
Third or Top	120 (75)	105 (66)	—	—	90 (56)

Overdrive Transmission.....



A 005



A 093

CAUTION: When driving the car on the long downhills, the overdrive must be locked out, and engine braking should be used together with the foot brakes.

1. KNOB PUSHED IN

- Overdrive operative.
- Engine brake inoperative when overdrive is disengaged.

Automatic shift in			
30k	40k	50k	60k
20m	25m	30m	35m

Automatic shift out

To shift in, release the accelerator pedal momentarily when the overdrive indicator light glows green.

*** KICK-DOWN ***

When you need the quick acceleration, depress the accelerator pedal fully.

The overdrive is disengaged automatically, and shift into normal top gear.

The kick-down will not operate at the speed above 120 km/h (75 mph).

2. KNOB PULLED OUT

- Engine brake operative at any time.
- Overdrive locked out.

To lock out the overdrive while driving:-

1. When the overdrive is disengaged, depress the accelerator pedal slightly, then pull out the knob.
 2. When the overdrive is engaged, depress the accelerator pedal fully to kick-down then pull out the knob.
 3. If the car speed is above 120 km/h (75 mph), the speed goes down 120 km/h (75 mph), then repeat the above (2) method.
- While driving, the knob can be pushed in at any time regardless of the speed.



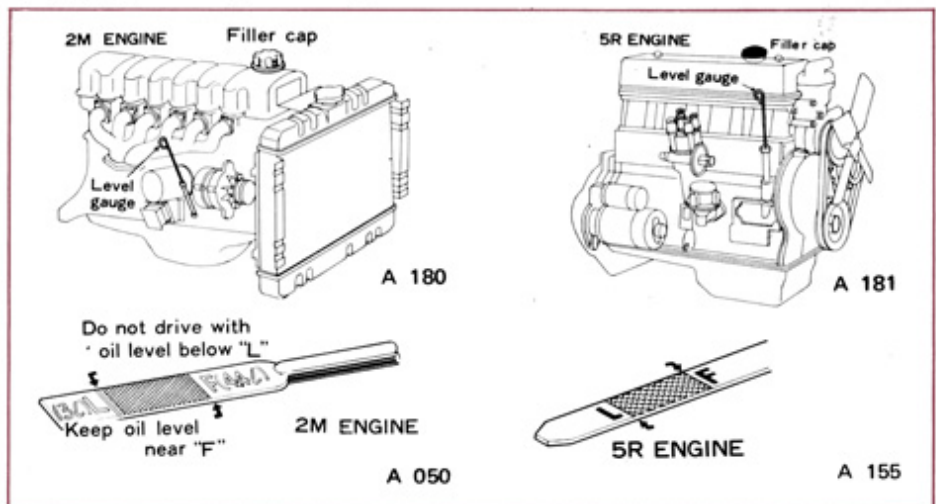
MAINTENANCE

Quality service of your car includes seasonal and mileage service. The seasonal service largely depends on the condition of climate. Your TOYOTA DEALER is the best place to obtain advice for particular needs. Have the following items inspected and serviced regularly according to the table of QUALITY CARE SCHEDULE on page 38 at your TOYOTA DEALER. Car with emission control system should be adjusted to factory specifications only by the authorized TOYOTA DEALER.

IMPORTANT CHECK POINTS

1. Engine Oil

The engine oil level must be between "L" and "F" marks on the dipstick gauge. Add if necessary a reliable brand engine oil with right viscosity to meet your climatic conditions (see page 23). Do not operate the engine with oil level below "L" mark.



2. Engine Coolant

Check the coolant level, and replenish water up to the specified level as illustrated.

If your car is equipped with the reserve tank, check the level in the reserve tank every 10,000 km (6,000 miles). Do not open the radiator cap except for cleaning.

Clean water must be used for replenishing, and DO NOT USE extremely hard or alkaline water.

3. Clutch & Brake Fluid

Keep the fluid level at 3/4 of the reservoir capacity at all times. Use SAE 70R-3 classification brake fluid.

4. Tires

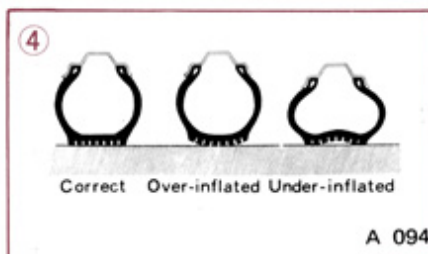
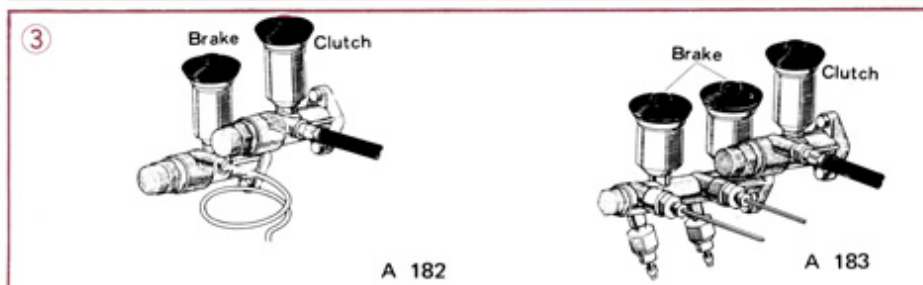
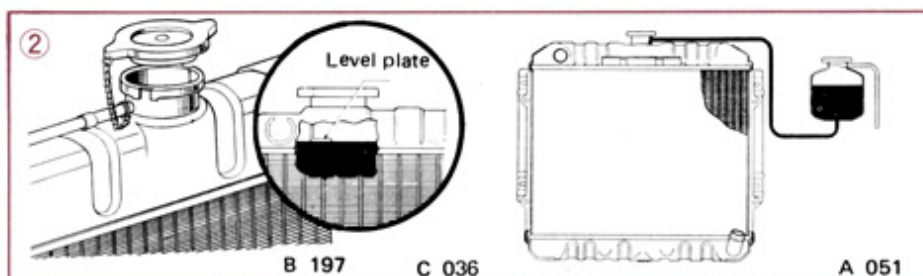
Check the tires for proper inflation, cracks and abnormal wear. Also check the wheel nuts.

CAUTION: For high speed driving (above 100 km/h or 65 mph), inflate the tires about 0.3 kg/cm² (4 psi) above the recommended pressure.

5. Check the Following Items for Proper Operation

Headlights, parking lights, turn signal lights, back-up lights, license plate lights, horns, wiper operation & blades, washer operation and washer fluid quantity.

6. Oil Stains on the garage floor or parking area indicate leaking. Let your Toyota Dealer know.



SPECIFIED TIRE PRESSURE

kg/cm² (psi)

		Front	Rear
MS55,51	RS50	1.6 (23)	1.6 (23)
MS53		1.6 (23)	2.1 (30)
MS57	RS56	wo/load	1.8 (26)
		w/load	1.8 (26)
			3.2 (45)

TO OBTAIN BEST ENGINE PERFORMANCE

1. Engine Oil & Filter

Use a reliable brand engine oil with right viscosity to meet your climatic conditions. Use API service MS-DM classification engine oil (see page 37).

Before changing the engine oil, check for oil leaks.

Use band tool for 2M engine filter cartridge removal.

2. Engine Coolant

Check all drain cocks, hoses and other components of the cooling system for leaks.

At temperature below 0°C (32°F) the coolant may freeze and cause damage to cylinder block or radiator. Therefore, the cooling system should be drained and cleaned early enough to be refilled with clean water and a reliable anti-freeze solution. If the drain coolant appears dirty, the entire cooling system should be flushed with radiator cleaner.

Car with the reserve tank, long-life coolant should be used.

3. Air Cleaner Element

Clean and replace earlier under dusty driving conditions. Do not blow element with extremely high pressure.

4. Fuel Filter Element

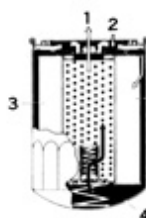
If the fuel is full in the fuel filter bowl, it is sign that the element is being clogged.

PROPER OIL VISCOSITY

PROPER OIL VISCOSITY						
Temp. (°F)	-10	10	32	50	90	
(°C)	-23	-12	0	10	32	
SAE	5W	10W	20W	20	30	40
(Multi-grade)	(5W-20)		(10W-30)		(20W-40)	

B 152-A

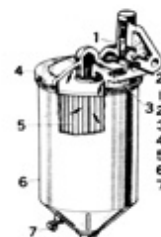
①



2M ENGINE

- 1. To oil circuit
- 2. From oil pump
- 3. Element
- 4. Relief valve

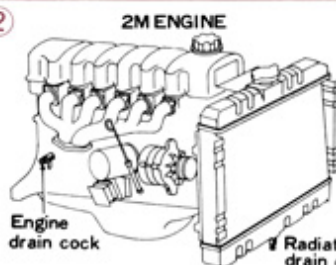
A 125



5R ENGINE

A 184

②

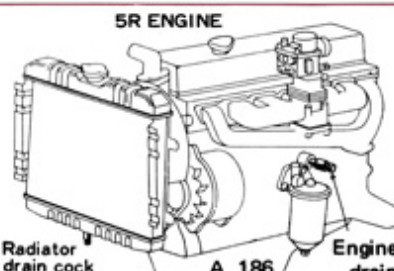


2M ENGINE

Engine drain cock

Radiator drain cock

A 185



5R ENGINE

Radiator drain cock

Engine drain cock

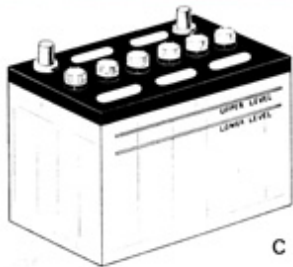
A 186

5. Battery

- Clean the terminals and battery case with warm water, and check for cracks and leaks.
- Retighten the battery terminals, and apply grease to avoid corrosion.
- Check the electrolyte level, and replenish with distilled water up to the upper level line or the bottom of the vent well.
- The battery specific gravity at 20°C (68°F) should be as follows.

Fully charged	1.260
Half discharged	1.160
Fully discharged	1.060

- The readings below 1.200 indicate that the battery should be recharged.



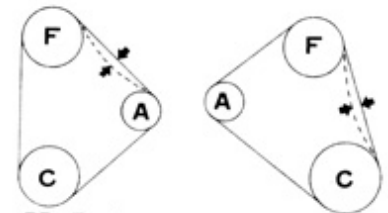
C 043



B 038

6. Fan Belt

Check the fan belt for cracks, stretch and wear, and if defective, replace the fan belt. To adjust the fan belt deflection, loosen the alternator bracket bolts, then adjust deflection by moving the alternator.



5R Engine

13~20mm (0.5~0.8")

2M Engine

About 16mm (0.6")

A: Alternator pulley

C: Crankshaft pulley

F: Fan pulley

A 153

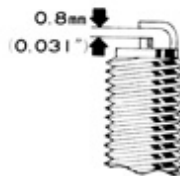
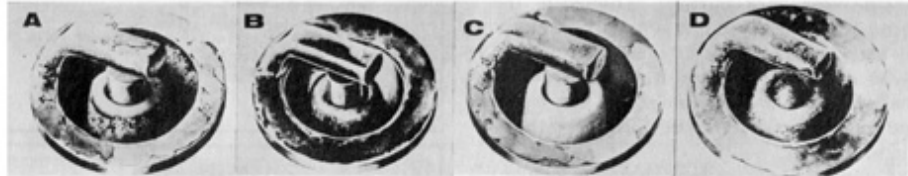
7. Spark Plug

A: Normal

B: Carbon deposit — Change to hot type

C: Overheating — Change to cold type

D: Abnormal wear — Change to cold type



C 048

STANDARD PLUG TYPE

	NIPPON DENSO	NGK
2M	W20EP	BP6ES
5R	W17ES	B6E

8. Valve Clearance

Proper adjustment of the intake and exhaust valve clearances is important to prevent poor engine performance.

2M ENGINE

Specified clearance:

Intake — 0.14 mm (0.006")
Exhaust — 0.21 mm (0.008")

- Perform the adjustment while the engine is cold.
- Tighten the cylinder head bolts to the specified torque in order from the center toward the outside.
TORQUE: 1 ~ 14 7.5 – 8.5 m·kg (55 – 61 ft·lb)
15 ~ 17 1.5 – 2.1 m·kg (11 – 15 ft·lb)
- Then tighten the valve rocker support bolts.
TORQUE: 3.0 – 4.5 m·kg (22 – 32 ft·lb)
- CAUTION:** Perform the tightening in two or three steps.
- Place the No.1 cylinder at TDC in compression stroke, and adjust intake valves of 1-2-4 cylinders, and exhaust valves of 1-3-5 cylinders.
- Crank the engine exactly one revolution, and adjust the remaining valves.

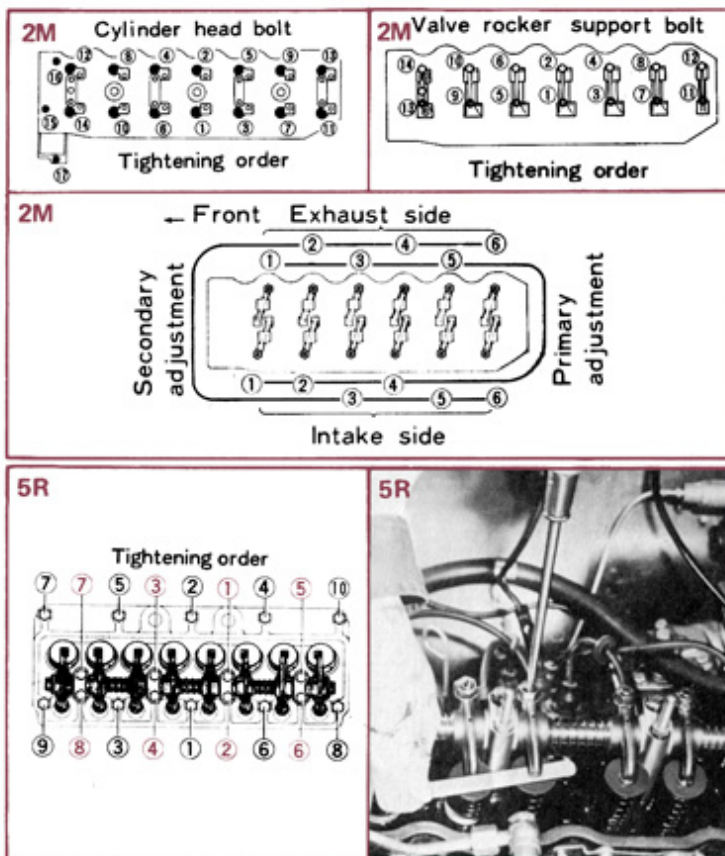
5R ENGINE

Specified clearance:

Intake — 0.203 mm (0.008")
Exhaust — 0.356 mm (0.014")

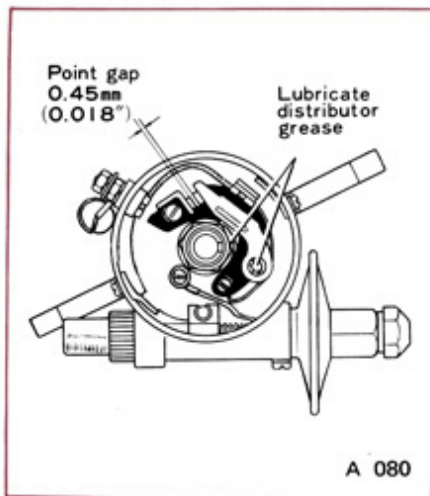
- Start the engine, and warm-up the engine until the coolant temperature reaches 75 - 85°C (165 - 185°F).
- Stop the engine. Tighten the cylinder head and valve rocker support bolts and nuts to the specified torque in the order from the center toward the outside.
TORQUE: 1 ~ 10 11 – 12 m·kg (80 – 85 ft·lb)
1 ~ 8 2.0 – 2.5 m·kg (15 – 18 ft·lb)
- CAUTION:** Perform the tightening in two or three steps.
- Then start the engine, and check clearances with a feeler gauge.

TO ADJUST, loosen the lock nut, and turn the adjusting screw until the specified clearance is obtained. Tighten the lock nut securely after adjustment, and recheck the clearance.



9. Distributor

- Clean the distributor cap and rotor, and inspect for crack, carbon track and burnt or corroded terminals.
- Polish points, adjust point gap and lubricate as illustrated.
- Check the centrifugal advancer mechanism by turning the rotor clockwise. When released, the rotor should return to its original position.
- Check the vacuum advancer mechanism by pushing in the octane selector. The selector should return to its former position when released.



10. Engine Idle Speed Adjustment

When adjusting the engine idle speed, ignition timing should be inspected and adjusted, and the octane selector should be adjusted to zero advance before adjusting the carburetor.

IGNITION TIMING

2M - 13°/550 rpm
2M - TDC/650 rpm
Initial Ignition Timing: (w/emission control)
5R - 8°/550 rpm

1. Connect a timing light onto the No.1 spark plug and the battery, and a tachometer onto the ignition coil.
2. Start the engine, and run it at idle speed of 550 rpm.
3. Aim the timing light at the timing graduations on the timing gear cover with the slot mark on the crankshaft pulley. Adjust the timing to initial ignition timing by loosening the distributor clamp and rotating the distributor body as required, then tighten the clamp securely.

CARBURETOR

2M - 550 rpm
2M - 650 rpm
Specified Idle Speed: (w/emission control)
5R - 550 rpm
The adjustment of the engine idle speed

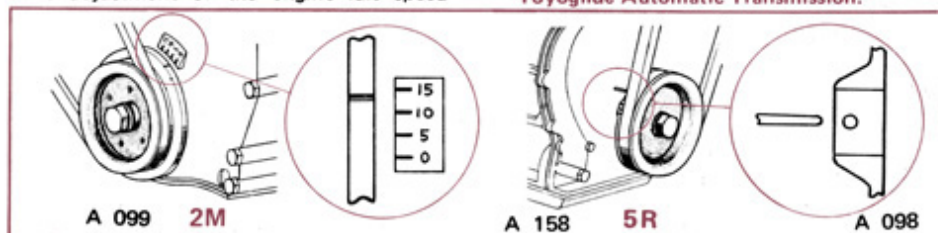
should be performed with the air cleaner installed.

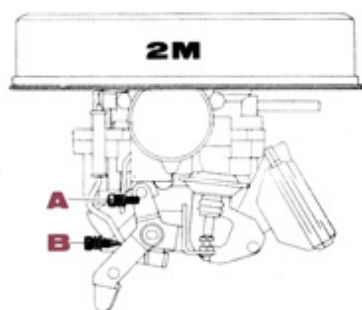
1. Connect a vacuum gauge to the intake manifold, and also connect a tachometer onto the ignition coil.
2. Warm-up the engine until the coolant temperature is stable.
3. Adjust the engine idle speed to the specified idle speed by turning the throttle adjusting screw (A) clockwise or counter-clockwise.
4. Turn the idle adjusting screw (B) and the throttle adjusting screw alternately to obtain a smooth idle speed with steady maximum vacuum reading and smooth engine operation, and set the idle speed to the specified idle speed.

2M - 400 ~ 470 mmHg
(16 ~ 19 inHg)

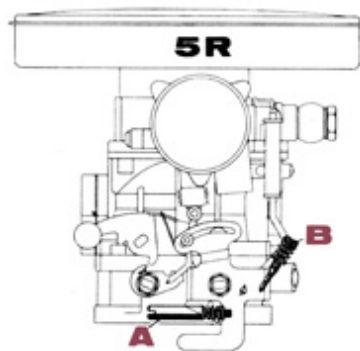
Manifold Vacuum: 5R - 460 ~ 530 mmHg
(18 ~ 21 inHg)

CAUTION: Adjust the engine idle speed in "Drive" range for the car equipped with the Toyoglide Automatic Transmission.





A 102



A 103

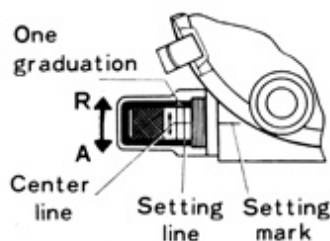
11. Octane Selector

Original Setting Position:

Align the setting line with the thread end and the center line with the setting mark.

Octane selector should be adjusted in accordance with the gasoline octane rating. To test, drive the car on a level road at about 40 km/h (25 mph) in top gear with the accelerator pedal fully depressed.

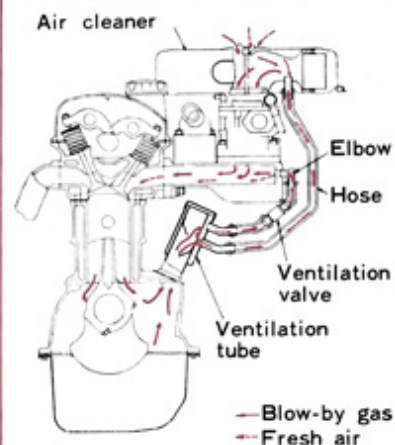
- * If a slight "ping" sound is heard, the timing adjustment is correct. This sound should fade out gradually as the car takes up speed.
- * If the sound is strong, retard the timing by turning the selector toward the "R" mark (turn counterclockwise).
- * If the "ping" sound is not audible at all, advance timing by turning the selector toward the "A" mark (turn clockwise).



B 244

EMISSION CONTROL SYSTEM (if installed)

For control of emission from the crankcase, Toyota Crown is equipped with Toyota Positive Crankcase Ventilation System. This system prevents crankcase blow-by gas from being released into atmosphere, and consists mainly of a ventilation valve and hoses leading from the crankcase to the intake manifold. Blow-by gas is returned by means of this system to the combustion chambers where it is reburned.



A 057

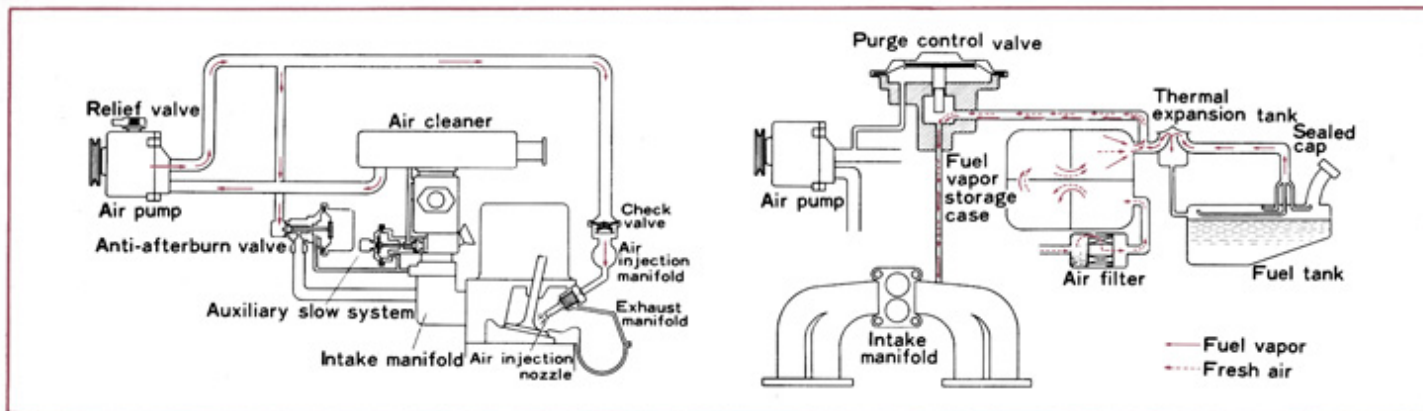
Toyota Manifold Air Injection System achieves control of exhaust emitted gas by burning the hydrocarbon and carbon monoxide concentrations in the exhaust ports of the cylinder head. To accomplish the burning of the contaminants, compressed air is injected into the exhaust ports near each exhaust valve. The oxygen in the air and the heat of exhaust gas in each exhaust outlet port induce combustion during exhaust stroke of the piston. The burned gas then flow out of the exhaust manifold into the atmosphere through the exhaust system.

Toyota Manifold Air Injection System consists of an air pump, an anti-afterburn valve, a check valve, an air manifold for the cylinder head, an air injection nozzle for the exhaust port of each cylinder, air supply hoses and a vacuum sensing hose.

Auxiliary Slow System is incorporated in the carburetor to assure uniform combustion throughout the period of deceleration. Only during deceleration, manifold vacuum pressure through the sensing line displaces the diaphragm, which opens the valve and let optimal air-fuel mixture flow into the intake manifold for best results in combustion.

If the engine idle becomes too rough, the air injection system or auxiliary slow system may be defective or ventilation valve may be clogged or stuck, therefore, check the above systems before adjusting the carburetor to compensate for the trouble. Have the engine checked and adjusted regularly at your Toyota Dealer.

Crown for the state regulating the fuel vapor control, is equipped with Toyota Case Storage System. This system prevents fuel vapor emission by storing the fuel vapor in the storage case and leading it to the intake manifold together with fresh air drawn in from the air filter, and consists of a purge control valve, a fuel vapor storage case, an air filter, a thermal expansion tank and a modified fuel tank. The air filter must be serviced regularly.



TO OBTAIN BEST CHASSIS CONDITIONS

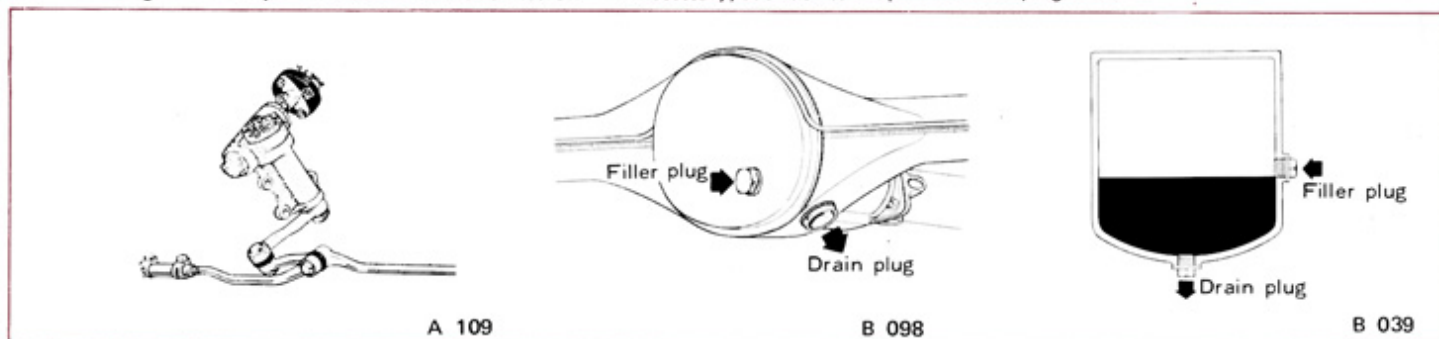
1. Lubricant Specifications

Steering gear box & Transmission	API service GL-4 gear oil Use SAE 80 throughout the year
Toyoglide transmission	Use ATF type F automatic transmission fluid
Differential	API service GL-5 gear oil SAE 80 : below -23°C (-10°F) 90 : above -23°C (-10°F)
Brake & Clutch	Use SAE 70R-3 brake fluid
Ball joints	Use NLGI No.0 - No.1 molybdenum-disulphide lithium base grease
Front wheel bearings	Use NLGI No.2 multipurpose grease

2. Ball Joints

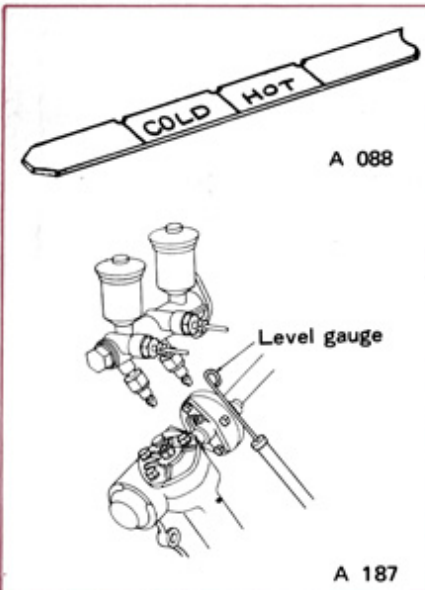
The front ball joints are provided with rubber bushings and must be lubricated with molybdenum-disulphide lithium base grease only (see page 37). To lubricate, install grease nipple and apply grease. After greasing, remove the nipple, and then plug the hole.

3. Steering Gear Box, Differential & Transmission — If necessary, add lubricant up to the filler plug level.



4. Toyoglide

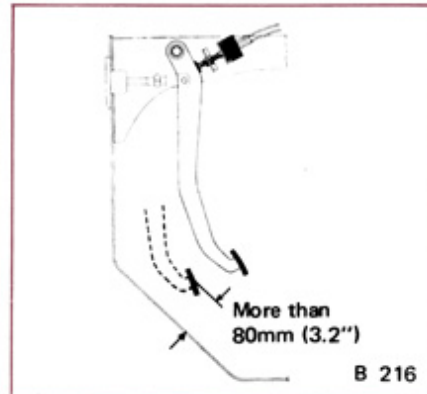
To check the fluid level, run the engine for a few minutes with the brakes applied and shift the selector lever through all ranges. Then clean the dipstick gauge and measure. The fluid level must be within the "COLD" range. If the fluid level is measured when the engine is hot, i.e. after driving, the fluid level must be within the "HOT" range on the dipstick gauge. DO NOT OVERFILL.



5. Brake System

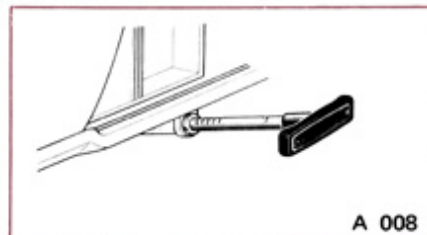
BRAKE PEDAL

When the brake pedal is fully depressed, a distance of 80 mm (3.2") or more should remain between floor and pedal.



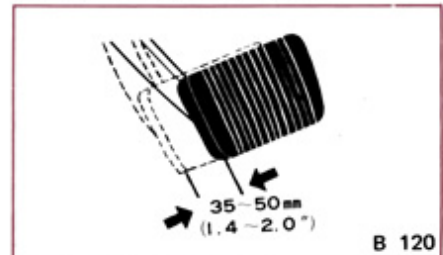
PARKING BRAKE

Brake should be applicable within 5 - 9 notch stroke.



6. Clutch Pedal

Depress the clutch pedal slightly, and check the free play which is from the pedal free position to the position where the pedal feels light resistance. The free play should be 35 - 50 mm (1.4 - 2.0")



7. Steering Wheel

Turn the steering wheel lightly in both directions. If it has a play of 15 - 25 mm (0.6 - 1.0") on its rim, the play is satisfactory. If the play is excessive, let your Toyota Dealer check and adjust it.



TIRE CARE

1. Checking Tires

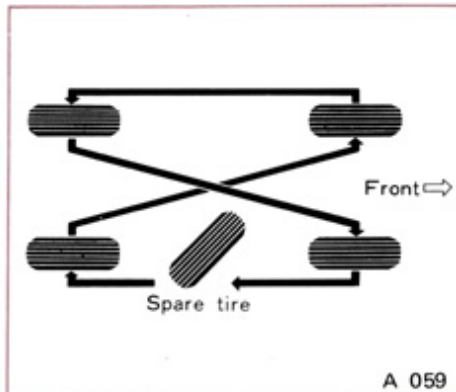
Check the tires for proper inflation, cracks, abnormal wear, and also check loose wheel nuts.

Under-inflated tires exposed to increased wear and increase fuel consumption. Over-inflated tires affect safety at high speed and cause uncomfortable driving.

Varying pressure of the right and left tires may cause unsteady steering and one-sided pulling when braking. (see page 22 for proper tire pressure).

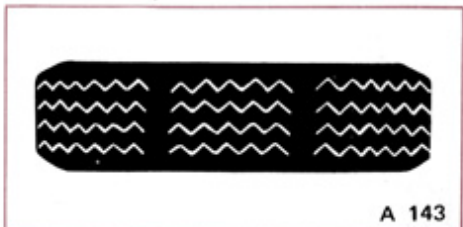
2. Diagonal Tire Rotation

In case of one-sided tire wear, rotate tires as illustrated and have the front end alignment inspected and readjusted. Rotate tires regularly to obtain optimum tire wear.

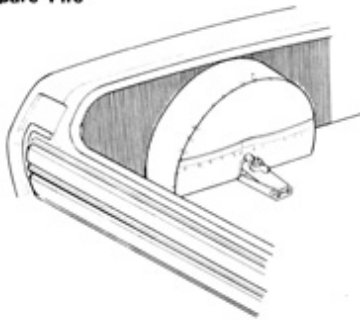


3. Tire Replacement

Using tires for long time, tread wear indicators (tread pattern discontinuations) appear as illustrated. They indicate that the tire should be replaced. When replacing the tire, there should be installed specified tires only. (see General Specifications)

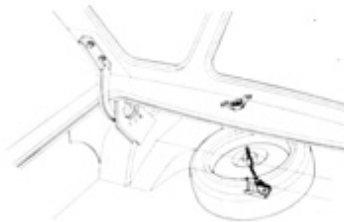


a. Spare Tire



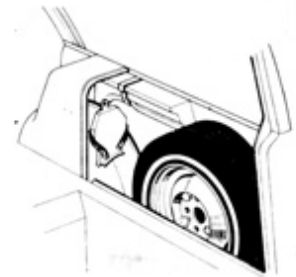
Sedan series

A 189



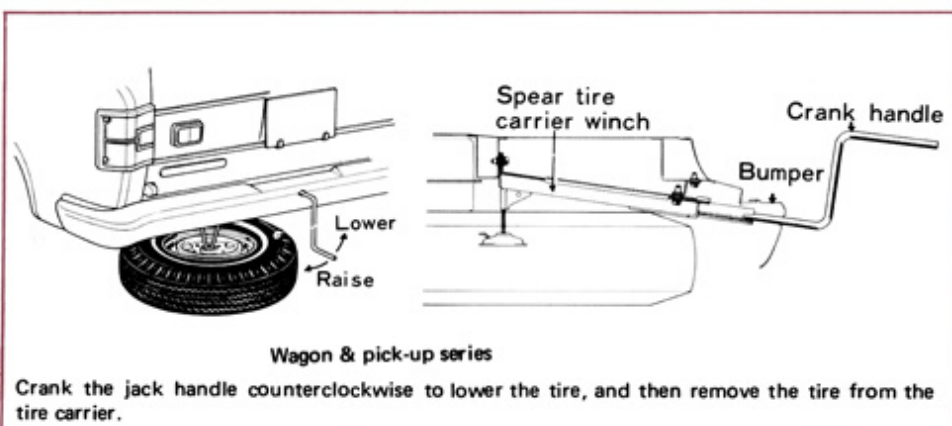
Hardtop series

A 154



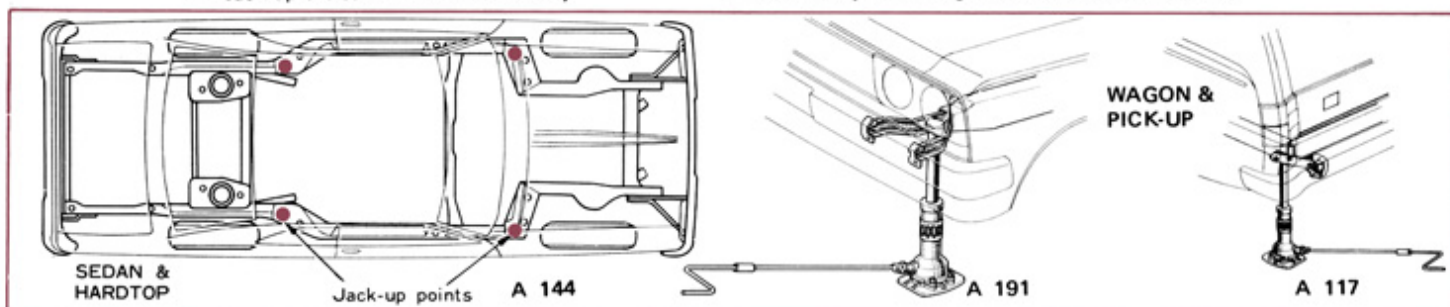
Custom series

A 060



b. Changing

- Prepare the spare tire and the jack.
- Apply parking brake and wheel stopper.
- Loosen wheel nuts, do not remove them.
- Jack-up the car on level surface only.
- Remove the wheel nut and wheel.
- Place new wheel on the wheel hub.
- Tighten wheel nuts into countersink.
- Lower the jack and tighten wheel nuts completely.



TOOLS

The jack and tools are located in the following place.

- | | | |
|------------------------|---|--|
| Sedan & Hardtop series | — | Luggage compartment |
| Custom series | — | Spare wheel house |
| Wagon & Pick-up series | | |
| Jack | — | Engine compartment |
| Tools | — | Under the rear seat cushion (wagon)
or front seat cushion (pick-up) |



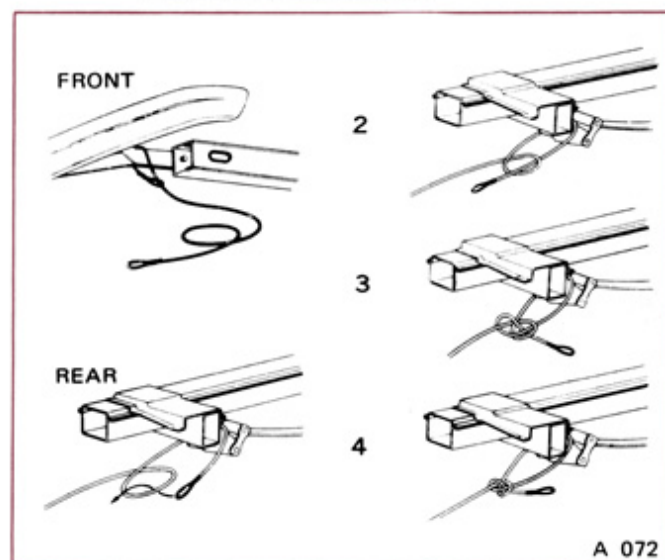
TOWING

Places to tie the towing cable.

- | | |
|--------------------------|--|
| Sedan, Hardtop & Custom: | Front or rear bumper stay. |
| Wagon & Pick-up: | Front bumper stay or rear spring hanger. |

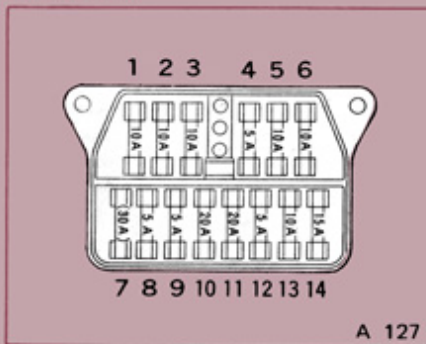
NOTE: The towing hook can be installed on each bumper stay attaching bolt.

CAUTION: When the Toyoglide Automatic Transmission is defective, shift the selector lever in neutral, and always raise the rear wheel off the ground, or disconnect the drive shaft from the rear axle.



ELECTRICAL

1. Fuse Box



A 127

To remove the fuse, use the cover fixing knob as shown. Always use fuses of specified value.



A 100

1. Low-beam (left)
2. Low-beam (right)
3. Tail light, license plate lights & glove compartment light
4. Front parking lights
5. High-beam (left)
6. High-beam (right) & high-beam indicator light
7. Power window
8. Meter pilot light
9. Radio
10. Cigarette lighter, clock, inspection light socket, horn, stop lights, interior lights & courtesy lights
11. Heater
12. Gauges & back-up lights
13. Turn signal lights & voltage regulator
14. Wiper & washer motors

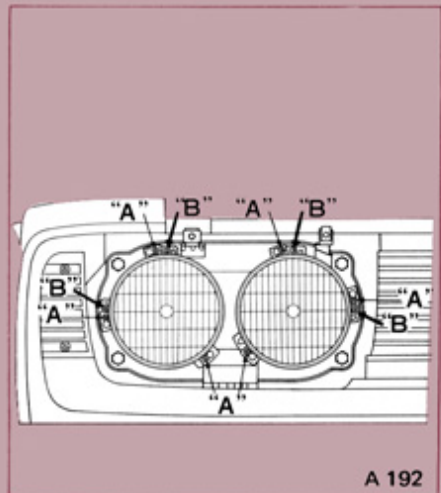
2. Headlight

To replace the beam unit. Remove the headlight door. Loosen the three retaining screws (A), do not remove them. Turn the retaining ring clockwise and then pull out the beam unit.

Always check the headlight aim and adjust if necessary by turning the screws (B). Do not interchange the outer and inner beams.

Outer sealed-beam : 37.5/50 watts

Inner sealed-beam : 37.5 watts

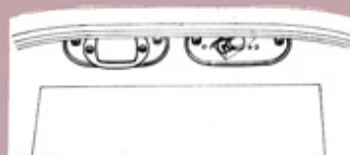


A 192

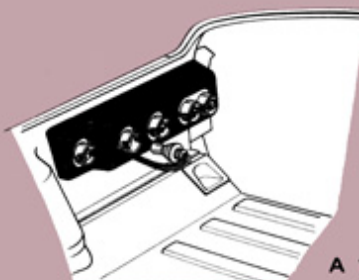
3. Bulb Replacement

To remove the bulb from the socket, turn the bulb counterclockwise while pushing it.

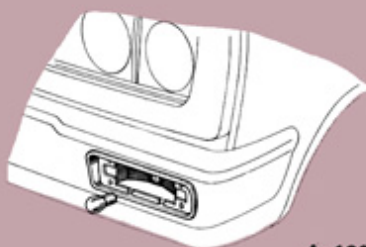
Front turn signal light:	23 watts
	23/8 watts
Parking light:	7.5 watts
Tail & stop light:	23/8 watts
Rear turn signal light:	23 watts
Back-up light:	23 watts
License plate light:	7.5 watts
Interior light:	6 watts
Luggage compartment light:	10 watts
Engine compartment light:	10 watts
Door courtesy light:	10 watts



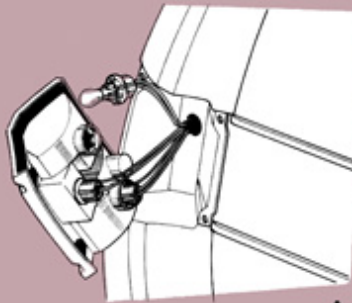
A 194



A 195



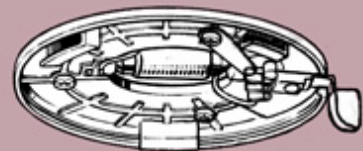
A 193



A 196



A 081



E 078



A 197

GOOD LOOKS OF YOUR CAR.....

The carefully selected finishing materials of your TOYOTA CROWN deserve a certain amount of care. Given that, the good looks of your car will be kept as long as you drive your TOYOTA CROWN.

Excessive exposure to sunlight, rain, snow, dust and chemicals may cause considerable deterioration on exterior surfaces. Through proper care from the time you have obtained ownership of your car, this deterioration can be greatly reduced.

You had better to avoid parking in direct sunlight for longer periods.

Always wash your car in the shadow and use lukewarm or cold water. NEVER WIPE OFF dust or mud with dry cloth as this causes scratching.

After a thorough washing, wax and polish your car. This provides an invisible protective film over the entire body and maintains excellent water repelling properties besides keeping the car free of stains. To protect chrome plated surfaces, apply a light oil or a chrome protector.



RECOMMENDED PETROLEUM PRODUCTS

	BP	CALTEX	CASTROL	ESSO	MOBIL	SHELL
Engine Oil	Super V Visco Static Energol HD	Five Star Motor Oil Havoline Motor Oil	Super Castrolite CR, HD	Uniflo Motor Oil Extra Motor Oil Motor Oil	Mobiloil Super Mobiloil Special Mobiloil	Super Motor Oil X-100 Motor Oil
Transmission Steering Gear Box	Gear Oil EP	Universal Thuban Universal Gear EP	Hypoy	Gear Oil GP	Mobilube GX Mobilube EP	Spirax EP
Differential	Hypogear Oil Universal	Multipurpose Thuban EP Multigear EP	Hypoy B	Gear Oil GX	Mobilube HD	Spirax Heavy Duty
Automatic Transmission	Autran B	Texamatic Fluid	TQ Type F	Glide	ATF210	Donax T-7
Ball Joint	Energlease L21M	Molytex	Castrolease MS3	Beacon Q2	Mobilgrease Special	Retinax AM
Wheel Bearing	Energlease L2	Marfak Multipurpose Marfak All Purpose	Castrolease LM	Multipurpose Grease	Mobilgrease MP	Retinax A
Anti-freeze	Anti-frost	Anti-freeze coolant	Anti-freeze	Atlas Permaguard Anti-freeze	Permazone	Anti-freeze

QUALITY CARE SCHEDULE

Abbreviation: R is "replace" or "change"

Unit : 1,000 km 1,000 miles	FREQUENT CHECK POINTS	1	5	10	15	20	25	30	35	40	45	50	55	60	Remarks
		0.6	3	6	9	12	15	18	21	24	27	30	33	36	
FREQUENT CHECK POINTS															
Check engine oil, coolant, clutch & brake fluid level	X														
Check tire pressure	X														
Check all electrical equipment operation	X														
ENGINE															
Check or change engine coolant (w/reserve tank)				X		X		X		R*		X		X	*or within 24 months or within 12 months
Change engine coolant (wo/reserve tank)						X				X				X	
Replace oil filter element		X		X		X		X		X		X		X	
Check battery acid level & specific gravity		X	X	X	X	X	X	X	X	X	X	X	X	X	
Check & adjust fan & air pump drive belt tension		X	X	X	X	X	X	X	X	X	X	X	X	X	
Check&adjust distributor dwell angle, points & gap		X	X	X	X	X	X	X	X	X	X	X	X	X	
Check & clean or replace spark plugs		X		X		R		X		R		X		R	
Check or replace air cleaner element			X	X	X	X	X	R	X	X	X	X	X	R	
Check or replace fuel filter element				X		X		R		X		X		R	
Tighten nuts & bolts on engine		X													
Check & adjust valve clearance		X		X		X		X		X		X		X	
Check engine idling speed & carburetor condition		X		X		X		X		X		X		X	
Check & adjust ignition timing		X	X	X	X	X	X	X	X	X	X	X	X	X	
Check resistive cord resistance (spark plug leads)										X					

Unit : 1,000 km 1,000 miles	1 0.6	5 3	10 6	15 9	20 12	25 15	30 18	35 21	40 24	45 27	50 30	55 33	60 36	Remarks
CHASSIS & BODY														
Check brake lining & drum					X				X				X	
Check brake pad & disc		X	X	X	X	X	X	X	X	X	X	X	X	
Check brake booster operation			X		X		X		X		X		X	
Check & adjust brake pedal free play & parking brake	X	X	X	X	X	X	X	X	X	X	X	X	X	
Check & adjust clutch pedal free play	X		X		X		X		X		X		X	
Check steering free play, linkage, front suspension & ball joints	X		X		X		X		X		X		X	
Rotate tires			X		X		X		X		X		X	
Check front end alignment (side slip)	X				X				X				X	
Check leakage of oil fuel, fluid & water & damage for brake pipes & hoses	X		X		X		X		X		X		X	
Tighten nuts & bolts on chassis & body	X				X				X				X	
LUBRICATION														
Change engine oil	X	X	X	X	X	X	X	X	X	X	X	X	X	or within 3 months
Check & replenish steering gear box oil					X				X				X	
Check & replenish or change transmission & differential gear oil			X		X		R*		X		X		R*	*or within 24 months
Check or change Toyoglide fluid		X	X	X	X	X	R*	X	X	X	X	X	R*	*or within 24 months
Lubricate ball joints & wheel bearings									X					or within 24 months
CRANKCASE & EXHAUST EMISSION CONTROL SYSTEM														
Replace positive crankcase ventilation valve & check & clean connections (1,000 miles)					X				X				X	or within 12 months
Check air injection system (replace parts, if necessary)	X				X				X				X	or within 12 months
Tighten nuts & bolts on air injection system	X				X				X				X	or within 12 months

FAULT FINDING

FAULT	CAUSES	REMEDY
Engine stops	Fuel filter clogged, fuel tank empty, fuel pump damaged, fuel line damaged, ignition interrupted	Clean, inspect pump, repair or replace, inspect line Check battery cables, spark plug leads
Engine runs irregularly	Clogged air or fuel filter, water in fuel, worn spark plugs, not firing on all cylinders	Clean or replace element, bleed fuel system, clean or replace, check spark plugs, ignition timing
Engine fails to start	Defective ignition switch, starter does not turn due to weak battery, poor terminal connections, defective starter motor or cables, spark plugs or leads	Check switch and wiring, specific gravity of battery electrolyte, replenish distilled water or change battery, Clean battery terminals, tighten, check cables and leads
Starter turns but engine does not start	Worm pinion gear on ring gear, air or water in fuel, clogged filters, fuel mixture too rich, wet spark plugs, defective coil or distributor points	Check starter motor and flywheel, bleed system, clean or replace element, depress acc. pedal and start, clean or replace, adjust gap, clean & check cap and rotor
Loss of power	Defective choke valve, as above or clogging of carburetor, dragging of brake lining, slipping clutch, unbalanced compression	Check and adjust, clean and inspect carburetor adjustment, float needle etc., inspect brakes, inspect clutch lining, have compression checked
Black exhaust	Faulty ignition, valve clearance, or carburetor adjustment	Check and readjust, carburetor, ignition timing, valve clearance, distributor, check carburetor needle & spring
Abnormal steering	Faulty front end alignment or steering linkage	Inspect & adjust steering linkage and front end alignment
Faulty braking	Worn or wet brakes, insufficient brake fluid pressure	Adjust or repair brakes, check leaks, and fluid
Gear selection difficult	Loose shifting linkage, worn clutch	Inspect and adjust, repair if necessary.
Oil pressure too low	Oil filter clogged, broken line, engine oil level too low, damaged pump, oil leak, engine overheated	Change cartridge, repair, replenish, inspect system for leaks
Steam from engine compartment	Insufficient coolant, fan belt loose, defective cooling water pump	Cool down, inspect for leaks, replenish, adjust or replace, inspect and repair

Sometimes a combination of the faults listed above may be the cause of trouble. For proper maintenance and adjustment, we recommend that you have your car inspected and serviced at your TOYOTA DEALER.



AVAILABLE EXTRAS

For additional driving comfort and pleasure, see your TOYOTA DEALER.

The items listed below are available in most areas at your Toyota Dealer's parts and accessories section.

Air conditioner	Fender control light	Seat cover
Auto stereo	Fog light	Seat cushion
Auto wax	Headrest	Side visor
Back rest	Heater	Ski rack
Car cover	Muffler cutter	Steering wheel cover
Cigarette lighter	Outside rear view mirror	Tire chain
Driver's glove	Radio	Tire pressure gauge
Driver's kit	Roof rack	Towing cable
Electric clock	Seat belt	etc.

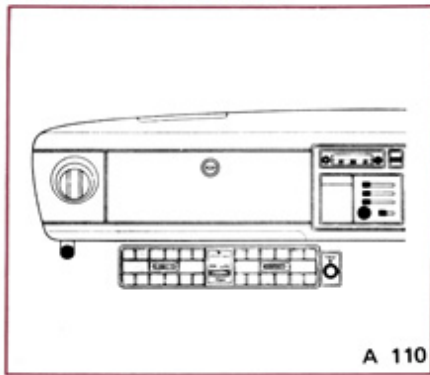
Repair Manuals & Owner's Manuals

The following comprehensive repair manuals are available from TOYOTA DEALER at reasonable prices. (English addition only)

98004	2M Engine R/M
98022	5R Engine R/M
98006	3-speed Toyoglide R/M
96012	Crown chassis R/M
96013	Crown body R/M

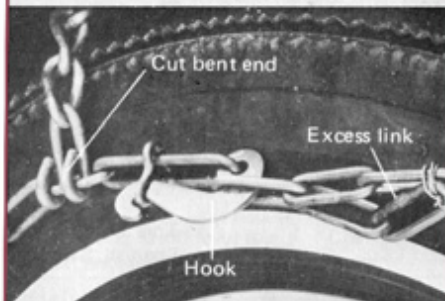
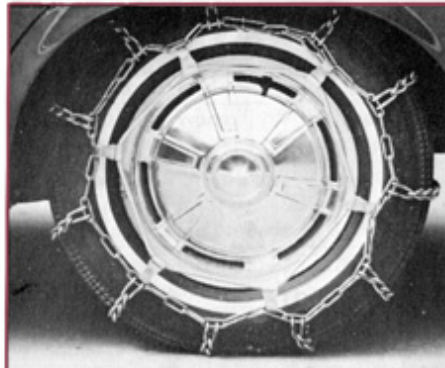
This owner's manual is also available in German, French, Dutch, Spanish, Swedish, Danish and Finnish.

AIR CONDITIONER



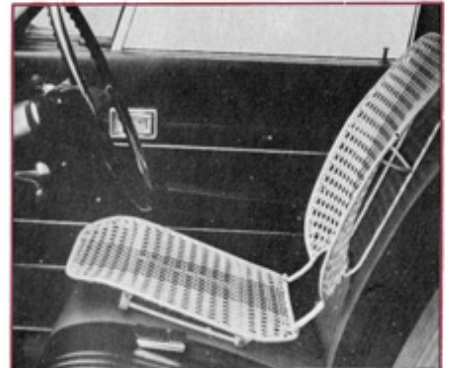
A 110

TIRE CHAIN



Install so that the cut bent ends face outward, connect inner hooks first, and install the spring band with its hooks facing outward. Then tie excess links.

BACKREST



ROOF RACK



DRIVER'S KIT





GENERAL SPECIFICATIONS

DIMENSION

Wheelbase	2,690 mm (105.9")
Tread : front	1,360 mm (53.5")
rear	1,370 mm (53.9") - w/disc brake
Overall length	1,380 mm (54.3")
	4,665 mm (183.7")
	4,585 mm (180.6") - hardtop
	4,690 mm (184.6") - wagon & pick-up
Overall width	1,690 mm (66.5")
Overall height	1,445 mm (56.9")
	1,420 mm (55.9") - hardtop
	1,465 mm (57.7") - MS53
	1,480 mm (58.3") - MS57V, RS56V-D
	1,510 mm (59.4") - RS56V
	1,500 mm (59.1") - RS56
Ground clearance	185 mm (7.3")
	205 mm (8.1") - RS56, 56V

TIRE SIZE

Front & rear	6.95-14, 4ply - sedan & hardtop
	6.95-14, 6ply - MS53, 57V, RS56V-D
	6.50-13, 6ply - RS56, 56V

ENGINE (2M)

Type	6-cylinder in line, chain drive S.O.H.C., 5 main bearings
------	--

Bore & stroke	75 x 85 mm (2.95 x 3.35")
Piston displacement	2,253 cc (137.5 cu.in.)
Compression ratio	8.8 to 1
Maximum horsepower	SAE 115 HP at 5,200 rpm
Maximum torque	SAE 17.6 m·kg (127 ft·lb) at 3,600 rpm

ENGINE (5R)

Type	4-cylinder in line, O.H.V.
Bore & stroke	88 x 82 mm (3.46 x 3.23")
Piston displacement	1,994 cc (121.7 cu.in.)
Compression ratio	8.0 to 1
Maximum horsepower	SAE 95 HP at 5,000 rpm
Maximum torque	SAE 15.3 m·kg (110.7 ft·lb) at 3,000 rpm

FUEL SYSTEM

Mechanical diaphragm fuel pump & down-draft two barrel type carburetor

COOLING SYSTEM

Water cooled with centrifugal pump & corrugated fin and tube type radiator

LUBRICATION SYSTEM

Forced lubrication by trochoid pump with full flow cartridge (2M) or partial flow (5R) type oil cleaner

ELECTRICAL SYSTEM

Battery: 12V, 40AH; Alternator: 12V, 480 watts; Starter motor: 12V, 1.4PS

CLUTCH

Facing diameter

Single dry plate, hydraulic operation

224 mm (8.8") — w/2M engine

200 mm (7.9") — w/5R engine

Facing area

386 cm² (59.8 sq.in.) — w/2M engine

320 cm² (49.6 sq.in.) — w/5R engine

3-SPEED TRANSMISSION W/OVERDRIVE & REAR AXLE

Transmission type

3-speed all forward gears synchromesh

Gear ratio

1st 3.059, 2nd 1.645, 3rd 1.000, Overdrive (MS55D, -F, 53 only) 0.700, Reverse 4.079

Rear axle type

Semi-floating hypoid gear drive

Final reduction gear ratio

4.875 — MS55D, -F, 53, RS56, 56V

4.375 — MS55-B, 57V, RS50

4-SPEED TRANSMISSION & REAR AXLE

Transmission type

4-speed all forward grease synchromesh

Gear ratio

1st 3.673, 2nd 2.114, 3rd 1.403, 4th 1.000 reverse 4.183

Rear axle type

Semi-floating hypoid gear drive

Final reduction gear ratio

4.111 — MS series, RS50, 56V-D

4.375 — RS56, 56V

AUTOMATIC TRANSMISSION & REAR AXLE

Transmission type

3-speed Toyoglide Automatic, 1-stage, 2-phase and 3-element type hydraulic torque convertor, with 3-forward and 1-reverse speed planetary gears

Gear ratio

1st 2.400, 2nd 1.479, 3rd 1.000, reverse 1.920

Rear axle type

Semi-floating hypoid gear drive

Final reduction gear ratio

4.375

SUSPENSION

Front

Independent wheels, wishbones ball joints, coil springs, hydraulic telescopic shock absorbers and torsion stabilizer

Rear - MS55,53,RS50 series

Trailing arms, panhard rod, torque rods, coil springs and hydraulic telescopic shock absorbers

- MS57V series

Asymmetrical semi-elliptic leaf springs and hydraulic telescopic shock absorbers

- RS56, 56V series

Progressive type, semi-elliptic leaf springs and hydraulic telescopic shock absorbers

STEERING

Type

Recirculating ball type

Gear ratio

Variable gear ratio, 20.5 ~ 23.6 to 1

Steering wheel diameter

406 mm (16.0")

BRAKES

Service brake	Hydraulic brake, operated on all wheels
Type	Front disc, rear drum with vacuum booster or front and rear drum
Disc or drum diameter	Disc 266 mm (10.5"), Drum 230 mm (9.1")
Lining area	Disc 134 cm ² (20.7 sq.in.), Drum-front 483 cm ² (74.9 sq.in.), Drum-rear 409 cm ² (63.4 sq.in.)
Shoe mechanism - front	Disc or two-leading type
rear	Duo servo type
Parking brake	Mechanical brake, operated on rear wheels

BODY AND FRAME

Perimeter frame

CAPACITIES

	liter	US	imp.
Fuel tank - sedan	65	17.2 gal.	14.3 gal.
hardtop, wagon & pick-up	60	15.9 gal.	13.2 gal.
Coolant - 2M engine w/reserve tank	11.0	2.7 gal.	2.4 gal.
2M engine wo/reserve tank	10.0	2.4 gal.	2.2 gal.
5R engine	7.5	1.8 gal.	1.7 gal.
Engine oil			
2M engine	5.3	5.6 qts.	4.7 qts.
5R engine	4.8	5.1 qts.	4.2 qts.
Manual transmission - 3-speed	1.75	1.7 qts.	1.4 qts.
w/overdrive & 4-speed	2.1	2.1 qts.	1.8 qts.
Automatic transmission	6.8	6.7 qts.	6.0 qts.
Rear axle	1.2	2.6 pts.	2.1 pts.
Steering gear box	0.4	0.9 pt.	0.7 pt.

SERVICE DATA

Fan belt tension - 2M	About 16 mm (0.6")
5R	13 ~ 20 mm (0.5 ~ 0.8")
Battery specific gravity	1.260 at 20°C (68°F)
Distributor:	
point gap - 2M & 5R	0.45 mm (0.018")
point pressure - 2M	510 ~ 690 g (18 ~ 24 oz)
5R	400 ~ 550 g (14 ~ 19 oz)
cam closing angle - 2M	41°
5R	52°
condenser capacity - 2M	0.14 ~ 0.16 micro-farad
5R	0.20 ~ 0.24 micro-farad
Firing order - 2M	1-5-3-6-2-4
5R	1-2-4-3
Ignition timing/idling speed:	
2M	BTDC 13°/550 rpm*
2M w/emission control	TDC/650 rpm*
5R	BTDC 8°/550 rpm
	(* Car equipped with Toyoglide, adjust at "D" range)
Idling vacuum - 2M	400 ~ 470 mmHg (16 ~ 19 inHg)
5R	460 ~ 530 mmHg (18 ~ 21 inHg)
Spark plug gap	0.8 mm (0.031")
Valve clearance:	
2M (cold) - intake	0.10 mm (0.004")
exhaust	0.18 mm (0.007")
5R (hot) - intake	0.203 mm (0.008")
exhaust	0.356 mm (0.014")
Compression pressure - 2M	11.0 kg/cm ² (156 psi) at 250 rpm
5R	11.0 kg/cm ² (156 psi) at 250 rpm
limit - 2M & 5R	9.0 kg/cm ² (128 psi)
variation between cylinders	
- 2M & 5R	Less than 1.0 kg/cm ² (14 psi)

Brake pedal:	
height from toe-board	165 mm (6.5")
free play	2 ~ 3 mm (0.08 ~ 0.12")
depressed pedal & floor clearance	More than 80 mm (3.2")
Parking brake stroke	5 ~ 9 notches
Brake lining thickness:	
front & rear	4.8 mm (0.19")
limit	1.5 mm (0.06")
Brake pad thickness	12.5 mm (0.50")
limit	2 mm (0.08")

Clutch pedal:	
height from toe-board	165 mm (6.5")
free play	35 ~ 50 mm (1.4 ~ 2.0")
Front end alignment	
toe-in (unloaded)	4 ± 1 mm (0.16 ± 0.04 ")
camber (unloaded)	$25' \pm 30'$
caster (unloaded)	
- MS51, 55, RS50 series	$-30' \pm 30'$
MS53 series	$-40' \pm 30'$
MS57, RS56 series	$-50' \pm 30'$
steering axis inclination	$7^{\circ} 20'$
Steering angle — inner	38°
outer	$29^{\circ} 30'$

INDEX

Air cleaner element	23	Fan belt	24	Rear window defogger	12
Air conditioner	42	Fuel filter element	23	Repair manuals	41
Appearance care	36	Fuel inlet	15	Roof rack	42
Ash tray	12	Fuse box	34	Seat belt.....	6
Assist grip & coat hanger	14	Glove compartment	13	Seats	6
Back rest	42	Hazard warning light switch	9	Spark plugs	24
Ball joint	29	Headlight	34	Speedometer & combination	
Battery	24	Headlight flasher	10	meter	8
Brake fluid	22	Headrest	6	Starting the engine	17
Brake system	30	Heater	12	Steering gear box	29
Bulb replacement	35	Horn button	10	Steering wheel	30
Cigarette lighter	12	Ignition switch	3	Tail gate	5
Clock	10	Important check points	21	Third seat	7
Clutch fluid	22	Instrument panel	8	Tire Chain	42
Clutch pedal	30	Interior lights	13	Tire change	31
Differential	29	Keys	3	Tire, checking	31
Dimmer switch	10	Lighting switch	9	Tire replacement	31
Distributor	26	Lubricants specifications	29	Tire rotation	31
Door lock	4	Luggage compartment	15	Tires	22
Doors	4	Manual transmission	19	Tools	33
Driver's kit	42	Octane selector	27	Towing	33
Driving the car	18	Overdrive control knob	10	Toyoglide	30
Electrical	34	Overdrive transmission	20	Toyoglide transmission	18
Emission control system	27	Owner's manuals	41	Transmission	29
Engine coolant	22,23	Parking brake lever	13	Turn signal switch	10
Engine hood	15	Power window	5	Valve clearance	25
Engine idle speed adjustment	26	Radio	11	Vehicle serial number	16
Engine number	16	Rear seat	7	Ventilation system	14
Engine oil	21,23	Rear view mirror	14	Wiper & washer switch	10

IDENTIFICATION

Owner's name	
Address	TEL.
Name of selling dealer	
Address	TEL.
License number	
Engine number	
Frame number	
Key number	
Insurance company	
Address	TEL.
Contract number	

Prepared by
TOYOTA MOTOR SALES CO., LTD.
Export - Technical Division, Haruhi Plant



NO. **96091**



PRINTED IN JAPAN ⓘ 48