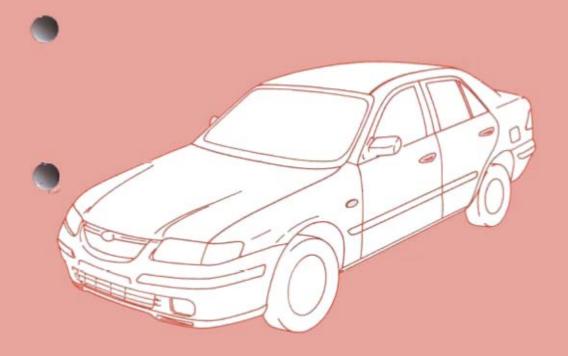
Full download: http://manualplace.com/download/mazda-22-mazda-626-1998-2002-workshop-manual/



Mazda 626 626 Station Wagon

Workshop Manual Supplement



JMZ GF 1: JMZ GW 1: JMZ GW 6:



9/1999 1671-1E-99I



European (L.H.D. U.K.) specs.

WARNING

Servicing a vehicle can be dangerous. If you have not received service-related training, the risks of injury, property damage, and failure of servicing increase. The recommended servicing procedures for the vehicle in this workshop manual were developed with Mazda-trained technicians in mind. This manual may be useful to non-Mazda trained technicians, but a technician with our service-related training and experience will be at less risk when performing service operations. However, all users of this manual are expected to at least know general safety procedures.

This manual contains "Warnings" and "Cautions" applicable to risks not normally encountered in a general technician's experience. They should be followed to reduce the risk of injury and the risk that improper service or repair may damage the vehicle or render it unsafe. It is also important to understand that the "Warnings" and "Cautions" are not exhaustive. It is impossible to warn of all the hazardous consequences that might result from failure to follow the procedures.

The procedures recommended and described in this manual are effective methods of performing service and repair. Some require tools specifically designed for a specific purpose. Persons using procedures and tools which are not recommended by Mazda Motor Corporation must satisfy themselves thoroughly that neither personal safety nor safety of the vehicle will be jeopardized.

The contents of this manual, including drawings and specifications, are the latest available at the time of printing, and Mazda Motor Corporation reserves the right to change the vehicle designs and alter the contents of this manual without notice and without incurring obligation.

Parts should be replaced with genuine Mazda replacement parts or with parts which match the quality of genuine Mazda replacement parts. Persons using replacement parts of lesser quality than that of genuine Mazda replacement parts must satisfy themselves thoroughly that neither personal safety nor safety of the vehicle will be jeopardized.

Mazda Motor Corporation is not responsible for any problems which may arise from the use of this manual. The cause of such problems includes but is not limited to insufficient service-related training, use of improper tools, use of replacement parts of lesser quality than that of genuine Mazda replacement parts, or not being aware of any revision of this manual.

Mazda 626 626 Station Wagon Workshop Manual Supplement

FOREWORD

This manual contains the changes and/or additions relating to on vehicle service and diagnosis procedures for the Mazda 626 and 626 Station Wagon.

For proper repair and maintenance, a thorough familiarization with this manual is important, and it should always be kept in a handy place for quick and easy reference.

All the contents of this manual, including drawings and specifications, are the latest available at the time of printing. As modifications affecting repair or maintenance occur, relevant information supplementary to this volume will be made available at Mazda dealers. This manual should be kept up-to-date.

Mazda Motor Corporation reserves the right to alter the specifications and contents of this manual without obligation or advance notice.

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Mazda Motor Corporation HIROSHIMA, JAPAN

APPLICATION:

This manual is applicable to vehicles beginning with the Vehicle Identification Numbers (VIN), and related materials shown on the following page.

CONTENTS

	Title							
General Information	on	GI						
Engine	FP, FS, FS (Hi-power)	B1						
Liigiile	AF Turbo, AF Turbo (Hi-power)	592						
Lubrication System	Lubrication System							
Cooling System	_							
Fuel and Emission	FP, FS, FS (Hi-power)	F1						
Control Systems	RF Turbo, RF Turbo (Hi-power)	F2						
Engine Electrical S	System	G						
Chitz								
Manual Transaxle	Manual Transaxle							
Automatic	GF4A-EL	K1						
Transaxle	FN4A-EL	K2						
Front and Rear Axi	es	M						
Steering System		N						
Braking System		P						
Suspension		R						
Body		S						
Body Electrical Sys	Body Electrical System							
Heater and Air Con	Heater and Air Conditioner Systems							
Technical Data	TD							
Special Tools	Special Tools							

There are explanations given only for the sections marked with shadow ().

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VEHICLE IDENTIFICATION NUMBERS (VIN)

```
U.K. specs.
 JMZ GF12P20#
                 400001 —
                                JMZ GF14R20#
                                                400001 ---
                 400001 ---
                                                400001 —
 JMZ GF12F20#
                                JMZ GF12S*0#
 JMZ GF12R20#
                 400001 ---
                                JMZ GW19F20#
                                                200001 —
 JMZ GF14P20#
                 400001 ---
                                JMZ GW19S20#
                                                200001 ---
 JMZ GF14F*0#
                400001 —
                                JMZ GW19R20#
                                                200001 ---
 JMZ GF14S*0#
                400001 —
European (L.H.D.) specs.
 JMZ GF12P20#
                 400001 —
                                JMZ GW19P20#
                                                200001 —
 JMZ GF12P2Y#
                 400001 ---
                                JMZ GW19P2Y#
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 JMZ GF12F50#
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                                                200001 ---
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                                                200001 ---
                                JMZ GW19R20# 200001 ---
                400001 —
 JMZ GF14R20#
```

RELATED MATERIALS

626 Training Manual (Europe)	3303-10-97D
626 Workshop Manual (Europe)	1577-10-97D
626 Station Wagon Workshop Manual Supplement	
(Europe)	1603-10-97J
626 626 Station Wagon Workshop Manual	
Supplement RF Turbo	1614-10-98D
626 626 Station Wagon Wiring Diagram	
(Europe (L.H.D.))	5468-1*-99I
626 626 Station Wagon Wiring Diagram (UK)	
Engine Workshop Manual FP FS	1579-10-98D
Engine Workshop Manual RF Turbo	1615-10-98D
Manual Transaxle Workshop Manual G25M-R	1441-10-94F
ATX Workshop Manual GF4A-EL	1414-10-931
ATX Workshop Manual GF4A-EL	
ATX Workshop Manual FN4A-EL	1623-10-98E
626 Bodyshop Manual	3310-10-97D
626 Station Wagon Bodyshop Manual Supplement	3317-10-97J
*: Indicates the printing location	
E-Europe	
0—Japan	

GI

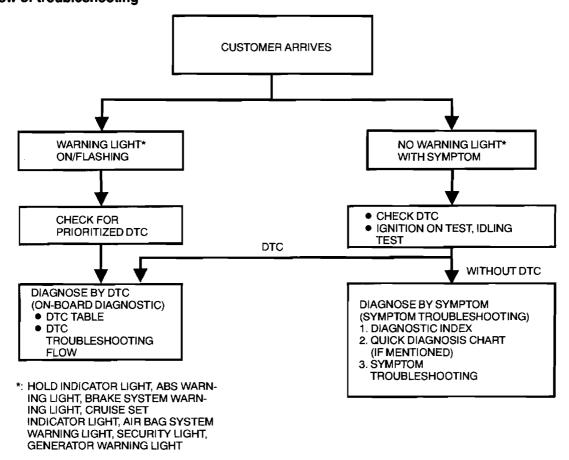
GENERAL INFORMATION

HOW TO USE THIS MANUAL	GI-2
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RANGE OF TOPICS

This manual indicates only changes/additions, as it is the supplemental for the related materials. Therefore it
may not contain the necessary referential service procedures to operate
the services indicated in this manual. Only
the referential section, e.g. (See Section B), is indicated, so refer to the appropriate section of
the related materials for details.

TROUBLESHOOTING PROCEDURE Basic flow of troubleshooting



DTC troubleshooting flow (on-board diagnostic)

- Diagnostic trouble codes (DTCs) are important hints for repairing malfunctions that are difficult to simulate. Perform the specific DTC diagnostic inspection to quickly and accurately diagnose the malfunction.
- The on-board diagnostic function is used during inspection. When a DTC is shown specifying the cause of a
 malfunction, continue the diagnostic inspection according to the items indicated by the on-board diagnostic
 function.

Diagnostic index

• The diagnostic index lists the symptoms of specific malfunctions. Select the symptoms related or most closely relating to the malfunction.

Quick diagnosis chart (If mentioned)

 The quick diagnosis chart lists diagnosis and inspection procedures to be performed specifically relating to the cause of the malfunction.

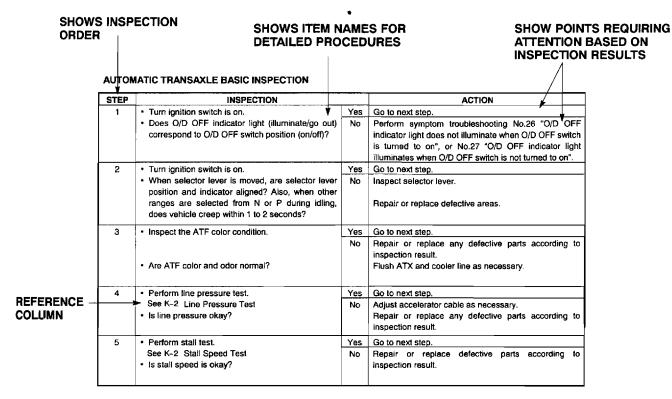
Symptom troubleshooting

Symptom troubleshooting quickly determines the location of the malfunction according to symptom type.

Procedures for Use

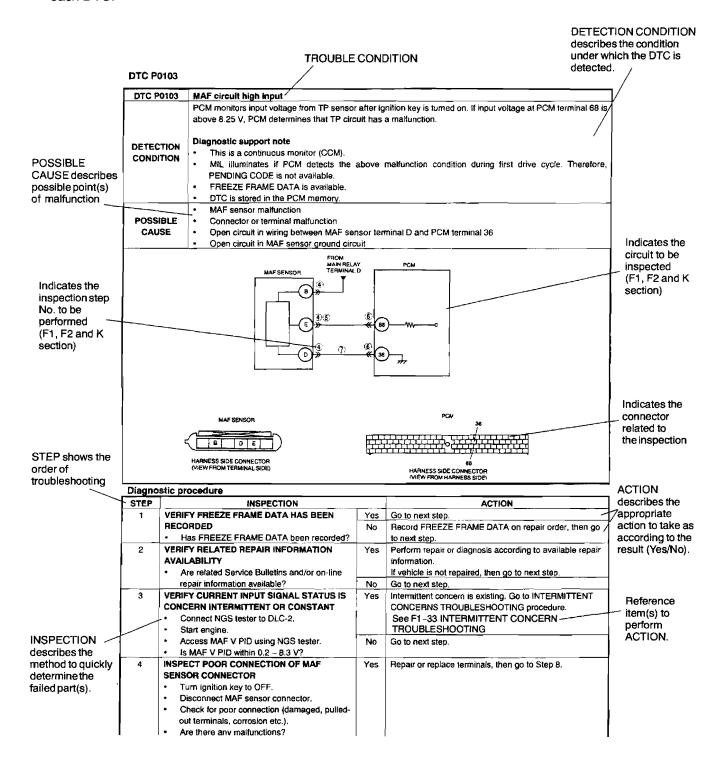
Using the basic inspection (section K)

- Perform the basic inspection procedure before symptom troubleshooting.
- Perform each step in the order shown.
- The reference column lists the location of the detailed procedure for each basic inspection.
- Although inspections and adjustments are performed according to the reference column procedures, if the
 cause of the malfunction is discovered during basic inspection, continue the procedures as indicated in the
 remarks column.



Using the DTC troubleshooting flow

 DTC troubleshooting flow shows diagnostic procedures, inspection methods, and proper action to take for each DTC.

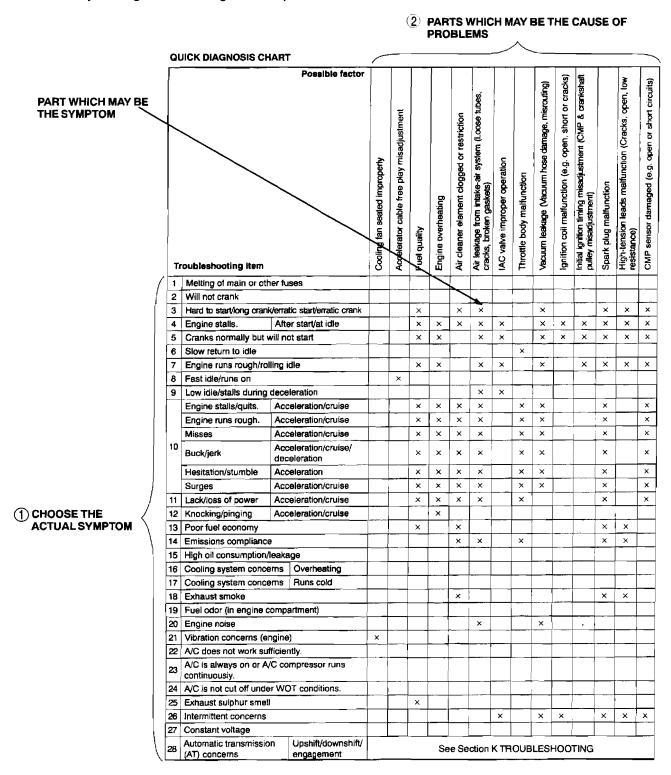


- Using the diagnosis index
 The symptoms of the malfunctions are listed in the diagnostic index for symptom troubleshooting.
 The exact malfunction symptoms can be selected by following the index.

No.	TROUBLE	SHOOTING ITEM	DESCRIPTION	Page				
1	Melting of main o	r other luses		See F2-6 MELT NO.1 MAIN OR OTHER FUSE				
2	Will not crank		Starter does not work	See F2 7 NO. 2 MIL COMES ON				
3	Hard start/long co	rank/erratic start/erratic	Starter cranks engine at normal speed but engine requires excessive cranking time before starting.	See F2-8 NO. 3 WILL NOT CRANK				
4	Engine stalls.	Alter slart/at idle	Engine stops unexpectedly at idle and/or after start.	See F2-9 NO.4 HARD START/ LONG CRANK/ERRATIC CRANK				
5	Cranks normally	but will not start	Starter cranks engine at normal speed but engine will not run.	See F2-11 NO. 5 ENGINE-STALLS AFTER START/AT IDLE				
6	Slow return to idle	e	Engine takes more time than normal to return to idle speed.	See F2-15 NO.6 CRANKS NORMALLY BUT WILL NOT STAR				
7	Engine runs roug	h/roffing idle	Engine speed fluctuates between specified idle speed and lower speed and engine shakes exces- sively.	See F2-19 NO. 7 SLOW RERUN TO				
8	Fast idle/runs on		Engine speed continues at fast idle after warm-up. Engine runs after ignition key is turned to OFF.	See F2-20 NO. 8 ENGINE RUNS ROUGH/ROLLING IDLE				
9	Low idle/stalls du	ring deceleration	Engine stops unexpectedly at begin- ning of deceleration or recovery from deceleration.	See F2-23 NO 9 FAST IDLE/FIUN ON				

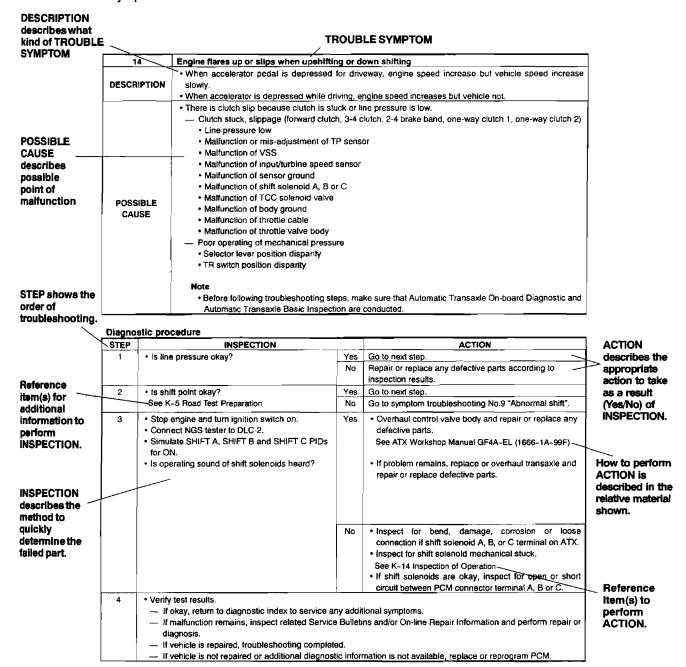
Using the quick diagnosis chart

- The chart lists the relation between the symptom and the cause of the malfunction.
- The chart is effective in quickly narrowing down the relation between symptom and cause of the malfunction.
 also specifies the area of the common cause when multiple malfunction symptoms occur.
- The appropriate diagnostic inspection relating to malfunction cause as specified by the symptoms can be selected by looking down the diagnostic inspection column of the chart.



Using the symptom troubleshooting

 Symptom troubleshooting shows diagnostic procedures, inspection methods, and proper action to take for each trouble symptom.

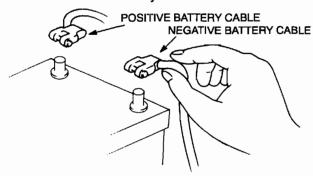


ELECTRICAL SYSTEM

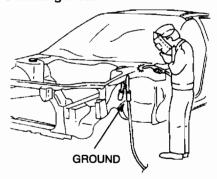
PRECAUTIONS BEFORE WELDING

Vehicles have various electrical parts. To protect the parts from excessive current generated when welding, be sure to perform the following procedure.

- 1. Turn the ignition switch to the LOCK position.
- 2. Disconnect the battery cables.



3. Securely connect the welding machine ground near the welding area.



4. Cover the peripheral parts of the welding area to protect them from weld spatter.

ABBREVIATIONS

ABDC ABS ACC ATDC ATF ATX BBDC BTDC CM	After bottom dead center Anti-lock brake system Accessories After top dead center Automatic transaxle fluid Automatic transaxle Before bottom dead center Before top dead center Control module
CPU	Central processing unit
DEF	Defroster
DOHC	Double over head camshaft
DI	Distributor ignition
DTC	Diagnostic trouble code
EBD	Electronic Brakeforce Distribution
EX	Exhaust
HI	High
HU	ABS hydraulic unit
IG	Ignition
IN	Intake
LED	Light emitting diode
L.H.D	Left hand drive
MAX	Maximum
MTX	Manual transaxle
OFF	Switch off Switch on
ON	Powertrain control module
PCM	Power window control module
REC	Recirculate
R.H.D	Right hand drive
SAS	Sophisticated air bag sensor
SST	Special service tool
SW	Switch
TCS	Traction control system
TNS	Tail number side lights
1GR	First gear
2GR	Second gear
3GR	Third gear
4GR	Fourth gear
5HB	5 door hatchback

SCHEDULED MAINTENANCE TABLE Chart symbols:

I : Inspect

Inspect and clean, repair, adjust, or replace if necessary. (Oil-permeated air cleaner elements cannot be cleaned using the air-blow method.)

R:Replace

T : Tighten

L: Lubricate

Remarks:

- To ensure efficient operation of the engine and all systems related to emission control, the ignition and fuel
 systems must be serviced regularly. It is strongly recommended that all servicing related to these systems be
 done by an authorized Mazda Dealer.
- After the described period, continue to follow the described maintenance at the recommended intervals.
- Refer below for a description of items marked* in the maintenance chart.
- *1: Also inspect and adjust the power steering and air conditioner drive belts, if installed.
- *2: Replacement of the timing belt is required at every 90,000 km (54,000 miles). Failure to replace the timing belt may result in damage to the engine.
- *3: If the vehicle is operated under any of the following conditions, change the engine oil and oil filter every 10,000 km (6,000 miles) or shorter.
 - a. Driving in dusty conditions.
 - b. Extended periods of idling or low speed operation.
 - c. Driving for long period in cold temperatures or driving regularly at short distance only.
- *4: If the vehicle is operated in very dusty or sandy areas, inspect and if necessary, clean or replace the air cleaner element more often than the recommended intervals.
- *5: This is a full function check of electrical systems such as lights, wiper and washer systems (including wiper blades), and power windows.
- *6: If the brakes are used extensively (for example, continuous hard driving or mountain driving) or if the vehicle is operated in extremely humid climates, change the brake fluid annually.

	Maintenance Interval (Number of months or km (miles), whichever comes first)													
	Months	12	24	36	48	60	72	84	96	108	120	132	144	
Maintenance Item	×1000 Km	15	30	45	60	75	90	105	120	135	150	165	180	
	(×1000 Miles)	(9)	(18)	(27)	(36)	(45)	(54)	(63)	(72)	(81)	(90)	(99)	(108)	

GASOLINE ENGINE

Engine valve clearance				Inspec	t every	90,00	0 km (5	4,000	miles).				
Idle speed	dle speed				1		ı		I		ı		
Fuel filter						R						R	
Spark plugs	Except for Sweden		1			ı			1			1	
(Except for platinum- tipped type)	For Sweden	Inspect every 50,000 km (30,000 miles).											
Spark plugs (Platinum-	tipped type)	Replace every 90,000 km (54,000 miles).											
Evaporative system	Except for Sweden			ı				ł				ı	
	For Sweden	Inspect every 80,000 km (48,000 miles).											
E.G.R. system	Except for Sweden			I				1				I	
	For Sweden	•	Inspect every 80,000 km (48,000 miles).										

DIESEL ENGINE (RF Turbo)

	(11 1212)								
	Engine valve clearance	ı		ı	I	I		- 1	ı
ſ	Fuel filter		R		R		R		R

	Maintenanc	Maintenance Interval (Number of months or km (miles), whichever comes first)													
Maintenance Item	Months	12	24	36	48	60	72	84	96	108	120	132	144		
	×1000 Km	15	30	45	60	75	90	105	120	135	150	165	180		
	(×1000 Miles)	(9)	(18)	(27)	(36)	(45)	(54)	(63)	(72)	(81)	(90)	(99)	(108)		

GASOLINE & DIESEL ENGINE

GASOLINE & DIESEL ENGINE												
Drive belts *1	I	l	J	1	I	I	1	1	1	I	1	1
Engine timing belt *2				Replac	e ever	y 90,00	00 km (54,000	miles)).		
Engine oil *3	R	R	R	R	R	R	R	R	R	R	R	R
Oil filter *3	R	R	R	R	R	R	R	R	R	R	R	R
Cooling system (Including coolant level adjustment)		ı		1		I		ı		ı		ı
Engine coolant			Repla	ce at fi		ears or that, ev			4,000	miles);		
Air cleaner element *4	I	I	R	I	ı	R	1	ı	R	1	1	R
Fuel lines & hoses				I		l i		i		1		I
Battery electrolyte level & specific gravity	I	ı	I	ı	ı	ı	ŀ	I	ı	ı	ı	J
All electrical system *5	1	1	1	1	1	Ī	ı	ı			-	
Headlight alignment		I		I		I		1		ı		I
Brake & clutch pedals	I	ı	I	ı	ı	I	1	1	I	ı	ı	I
Clutch fluid	Ī	I	ı	1	Ī	Ι	I	ı	ı	Ι	ı	ı
Brake lines, hoses & connections	ī	I	1	ı	ı	ı	ı	ı	I	ı	ı	ı
Brake fluid *6	Ī	R	ı	R	ı	R	1	R	Т	R	1	R
Parking brake	T	ı	ı	1	T	Т	1	1			Т	Ι
Power brake unit & hoses	1	ı	ı	1	ı	ı	ı	ı	1	1	1	1
Disc brakes	1	1	ı	ı	1	1	1	ı	1	1	1	ı
Drum brakes	ı	ı	1	1	ı	ı	1	ı	ı	1	1	1
Power steering fluid & lines	1	1	-	1	1	1	1	ı	1	Π	- 1	
Steering operation & gear housing		ı		1		ı		1		1		ı,
Steering linkage, tie rod ends & arms		1		T		1		ı		1		ı
Manual transaxle oil				_		R						R
Automatic transaxle fluid level		i		ı		ı		-		ī		1
Front & rear suspension & ball joints			1		ı		ı		ı		ı	
Driveshaft dust boots			ı		1		ı		ı		ı	
Exhaust system heat shields		ı		ı		1		1		ı		1
Wheel nuts	Т	Т	Т	Т	T	Т	Т	Т	Т	Т	Т	Т
Bolts & nuts on chassis & body	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т
Body condition (for rust, corrosion & perforation)	Inspect annually.											
Tires (including spare tire) (with inflation pressure adjustment)	I	1	I	I	I	I	I	I	I	I	I	I
Hinges & catches	L	L	L	L	L	L	I	L	۲	L	L	L
Underside of vehicle	ı	ı	ı	ı	I	ı	I	ı	_	I	1	Ī
Road test	1	ı	I	1	I	ı	1	1	ı	1	I	ī
Cabin air filter (if installed)	R	R	R	R	R	R	R	R	R	R	R	R
	-		-	•							-	

Scheduled Maintenance Service (Specific Work Required)

Maintenance Item	Specific Work Required							
ENGINE								
Engine valve clearance	Measure clearance.							
Drive belts	Inspect for wear, cracks and fraying, and check tension. Replace drive belt.							
Engine timing belt	Replace engine timing belt.							
Engine oil	Replace engine oil and inspect for leakage.							
Oil filter	Replace oil filter and inspect for leakage.							
Oil by-pass filter	Replace oil by-pass filter and inspect for leakage.							
COOLING SYSTEM	·							
Cooling system (including coolant level adjustment)	Check coolant level and quality, and inspect for leakage.							
Engine coolant	Replace coolant.							
FUEL SYSTEM								
Idle speed	Check engine idle rpm.							
Idle mixture (for CIS & carburetor leaded fuel)	Check the CO and HC concentrations (See W/M).							
Choke system (for carburetor)	Check system operation.							
Air cleaner element	Inspect for dirt, oil and damage. Clean air cleaner element (by blowing air). Replace air cleaner element.							
Fuel filter	Replace fuel filter.							
Fuel lines & hoses	Inspect for cracks, leakage and loose connection.							
IGNITION SYSTEM (FOR GASOLINE)								
Initial ignition timing	Check initial ignition timing.							
Spark plugs	Inspect for wear, damage, carbon, high-tension lead condition and measure plug gap. Replace spark plugs.							
EMISSION CONTROL SYSTEM (FOR GASO	OLINE)							
Evaporative system	Check system operation (See W/M), vapor lines, vacuum fitting hoses and connection.							
Throttle positioner system (if equipped)	Check the diaphragm and system operation, vacuum fitting hoses and connection.							
Dash pot (for carburetor)	Check system operation.							
E.G.R. system	Check system operation (See W/M), vacuum fitting hoses and connection.							
ELECTRICAL SYSTEM								
Battery electrolyte level & specific gravity	Check level and specific gravity.							
Battery condition	Check the battery for corroded or loose connections and cracks in the case (for maintenance free type).							
All electrical system	Check function of lighting system, windshield wiper (including wiper blade condition) and washer and power windows.							
Headlight alignment	Check headlight alignment							
CHASSIS & BODY								
Brake & clutch pedals	Check pedal height and free play.							
Brake fluid	Check fluid level and inspect for leakage. Replace brake fluid.							
Clutch fluid	Check fluid level and inspect for leakage.							
Brake lines, hoses & connections	Inspect for cracks, damage, chafing, corrosion, scars, swelling and fluid leakage.							
Parking brake	Check lever stroke.							
Power brake unit & hoses	Check vacuum lines, connections and check valve for improper attachment, air tightness, cracks chafing and deterioration.							

Maintenance Item	Specific Work Required
Disc brakes	Test for judder and noise. Inspect caliper for correct operation and fluid leakage, brake pads for wear. Check disc plate condition and thickness.
Drum brakes	Test for judder and noise. Inspect brake drum for wear and scratches; brake lining for wear, peeling and cracks; and wheel cylinder for fluid leakage.
Manual steering gear oil	Check gear oil level.
Power steering fluid & lines	Check fluid level and lines for improper attachment, leakage, cracks, damage, loose connections, chafing and deterioration.
Power steering fluid	Check fluid level.
Power steering system & hoses	Check lines for improper attachment, leakage, cracks, damage, loose connections, chafing and deterioration.
Steering & front suspension	Check free play of steering system, inspect shock absorbers for correct damping force, oil leakage, damage and looseness, and inspect coil springs, arms, links and stabilizer for damage and looseness.
Steering operation & gear housing	Check that the steering wheel has the specified play. Be sure to check for changes, such as excessive play, hard steering or strange noises. Check gear housing and boots for looseness, damage and grease/gear oil leakage.
Steering linkages tie rod ends & arms	Check ball joint, dust cover and other components for looseness, wear, damage and grease leakage.
Front & rear suspension ball joints	Inspect for grease leakage, cracks, damage and looseness.
Manual transmission/transaxle oil	Check oil level and inspect for leakage. Replace manual transmission/transaxle oil.
Automatic transaxle oil level	Check oil level.
Automatic transmission/transaxle fluid level	Check fluid level.
Automatic transmission/transaxle fluid	Replace automatic transmission/transaxle fluid.
Front & rear differential oil	Check oil level and inspect for leakage. Replace front & rear differential oil.
Rear differential oil	Check oil level and inspect for leakage. Replace rear differential oil.
Transfer oil (for 4 × 4)	Check oil level and inspect for leakage. Replace transfer oil.
Upper arm shafts (for B-Series)	Lubricate the upper arm shafts for looseness or damage.
Front & rear wheel bearing grease	Remove wheel bearing and replace the grease.
Propeller shaft joints (with grease nipple)	Lubricate propeller shaft joints.
Driveshaft dust boots	Inspect for grease leakage, cracks, damage and looseness.
Wheel nuts	Tighten wheel nuts.
Bolts & nuts on chassis & body	Tighten bolts and nuts fastening suspension components, members and seat frames.
Body condition (for rust, corrosion & perforation)	Inspect body surface for paint damage, rust, corrosion and perforation.
Exhaust system heat shields	Inspect for damage, corrosion, looseness of connections and gas leakage.
Tires (including spare tire) (with inflation pressure adjustment)	Check air pressure and inspect tires for tread wear, damage and cracks; and wheels for damage and corrosion.
Hinges & catches	Lubricate hinges and catches of doors, trunk lid and hood.
Seat belts	Inspect seat belt webbing for scratches, tears and wear, and check anchor bolt tightness.
Rear suspension uni-ball & sliding rubber bushing (for RX-7)	Inspect for cracks, damage and looseness.
Underside of vehicle	Inspect underside of vehicle (floor pans, frames, fuel lines, around exhaust system, etc.) for damage and corrosion.

Maintenance Item	Specific Work Required		
Road test	Check brake operation/clutch operation/steering control/operation of meters and gauges/squeaks, rattles or unusual noises/engine general performance/emergency locking retractors.		
AIR CONDITIONER SYSTEM (IF EQUIPPED)		
Refrigerant amount	Check refrigerant amount.		
Compressor operation	Check compressor operation, and inspect for noise, oil leakage, cracks and refrigerant leakage.		
Cabin air filter	Replace cabin air filter.		
4WS SYSTEM			
Front & rear power steering system & hoses	Check lines for improper attachment, leaks, cracks, damage, loose connections, chafing and deterioration.		
4WS operation & linkages	Inspect for leakage, cracks, damage and looseness.		
Rear wheel steering angle	Inspect for rear wheel steering angle.		
Rear suspension outer ball joints	Inspect for grease leakage, cracks, damage and looseness.		

B1

ENGINE (FP, FS, FS (Hi-power))

FEATURES

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OUTLINE

OUTLINE

OUTLINE OF CONSTRUCTION

 The construction and operation of the face-lifted FP, FS, FS (Hi-power) engine models are essentially carried over from those of the current 626 (GF), 626 Station Wagon (GW) (FP, FS, FS (Hi-power)) engine models, except for the following features. (See 626 Training Manual 3303–10–97D.)

FEATURES

Improved Engine Performance

- The shape of the intake port has been modified. (FP)
- The valve timing of exhaust valve has been changed from BBDC 48° to BBDC 44°, and ATDC 2° to ATDC 6°.
 (FP)
- The compression ratio has been increased from 9.6:1 to 9.7:1. (FP)

SPECIFICATIONS

Item			Specification			
			FP	FS	FS (Hi-power)	
Туре			Gasoline, 4-cycle			
Cylinder arrangement and number			In-line, 4-cylinder			
Combustion chamber			Pentroof			
Valve system			DOHC, timing belt driven, 16 valves			
Displacement (ml {cc, cu in})		1,840 {1,840, 112.2}	1,991 {1,991, 121.5}			
Bore × stroke (mm {in})		83.0×85.0 {3.27×3.35}	83.0×92.0 {3.27×3.62}			
Compression ratio			9.7:1	9.7:1		
Compression pressure (kPa {kgf/cm², psi} [rpm])			1,471 {15.0, 213} [300]			
Valve timing	IN	Open	BTDC (°)	0	2	5
	IIN	Close	ABDC (°)	35	48	56
	EX	Open	BBDC (°)	44	48	
	E^	Close	ATDC (°)	6	2	
Valve clearance IN (mm {in}) [Engine cold] EX (mm {in})		0.26 {0.010}				
		EX	(mm {in})	0.26 {0.010}		

Indicates new specification