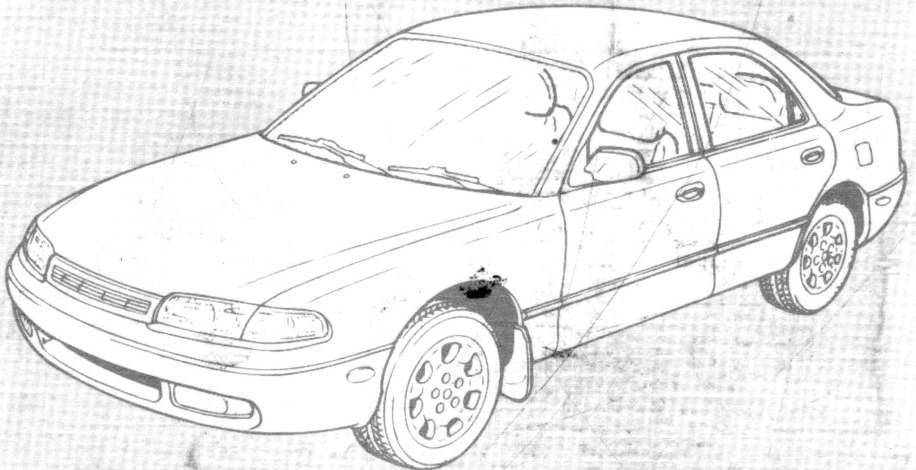


Mazda 626

570

1994
Workshop Manual



MAZDA

WARNI NG

Servicing a vehicle can be dangerous. If you have not received service-related training, the risks of injury and property damage 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 servicing operations. However, all users of this manual are expected to 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. Nonrecommended procedures and tools should include consideration for safety of the technician and continued safe operation of the vehicle.

Parts should be replaced with genuine Mazda replacement parts, not parts of lesser quality. Use of a nonrecommended replacement part should include consideration for safety of the technician and continued safe operation of the vehicle.

1994 Mazda 626 / MX-6 Workshop Manual

FOREWORD

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

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.

WARRANTY

The manufacturer's warranty on Mazda vehicles and engines can be voided if improper service or repairs are performed by persons other than those at an Authorized Mazda Dealer.

**Mazda Motor Corporation
HIROSHIMA, JAPAN**

APPLICATION:

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

CONTENTS

Title		Section
General Information		GI
Pre-Delivery Inspection and Scheduled Maintenance		A
Engine	FS	B1
	KL	B2
Lubrication System	FS	D1
	KL	D2
Cooling System	FS	E1
	KL	E2
Fuel and Emission Control Systems	FS (MTX)	F1
	KL	F2
	FS (ATX)	F3
Engine Electrical System		G
Clutch		H
Manual Transaxle	G25M-R	J
Automatic Transaxle	GF4A-EL	K1
	LA4A-EL	K2
Front and Rear Axles		M
Steering System		N
Braking System		P
Wheels and Tires		Q
Suspension		R
Body		S
*Body Electrical System		T
*Heater and Air Conditioner Systems		U
Technical Data		TD
Special Tools		ST
Wiring Diagram		Z

*Refer to the 1994 626/MX-6 Body Electrical Troubleshooting Manual (Form No.1359-10-93G, Part No.9999-95-084F-94) for servicing of the body electrical components.

VEHICLE IDENTIFICATION NUMBERS (VIN)

626

1YV GE22C*R5 100001—

1YV GE22D*R5 100001—

MX-6

1YV GE31C*R5 100001—

1YV GE31D*R5 100001—

GENERAL INFORMATION

SAFETY INFORMATION	GI- 2
LUBRICANTS	GI- 2
JACKING POSITIONS	GI- 2
SAFETY STAND POSITIONS	GI- 2
VEHICLE LIFT POSITIONS.....	GI- 3
DYNAMOMETER.....	GI- 3
COMPRESSED AIR	GI- 3
HOW TO USE THIS MANUAL	GI- 4
ADVISORY MESSAGES	GI- 4
PREPARATION	GI- 4
REPAIR PROCEDURE.....	GI- 4
SYMBOLS.....	GI- 5
IDENTIFICATION NUMBER LOCATIONS	GI- 6
UNITS	GI- 6
ABBREVIATIONS	GI- 7
SAE STANDARDS	GI- 8
FUNDAMENTAL PROCEDURES	GI-11
PROTECTION OF THE VEHICLE	GI-11
PREPARATION OF TOOLS AND MEASURING EQUIPMENT.....	GI-11
SPECIAL TOOLS.....	GI-11
REMOVAL OF PARTS.....	GI-11
DISASSEMBLY	GI-11
REASSEMBLY	GI-12
ADJUSTMENTS	GI-13
RUBBER PARTS AND TUBING	GI-13
HOSE CLAMPS	GI-13
TORQUE FORMULAS	GI-13
VISE	GI-13
ELECTRICAL TROUBLESHOOTING TOOLS	GI-14
TEST LIGHT	GI-14
JUMPER WIRE	GI-14
VOLTMETER	GI-14
OHMMETER.....	GI-14
ELECTRICAL PARTS	GI-15
BATTERY CABLE.....	GI-15
CONNECTORS	GI-15
TERMINALS	GI-16
SENSORS, SWITCHES, AND RELAYS.....	GI-17
WIRING HARNESS.....	GI-17
FUSE	GI-17
INSTALLATION OF MOBILE TWO-WAY RADIO SYSTEM	GI-18
AUDIO ANTITHEFT SYSTEM	GI-18
TOWING	GI-19

SAFETY INFORMATION

LUBRICANTS

Avoid prolonged and repeated contact with petroleum-based oils. Used oil may irritate the skin, and can cause skin cancer and other skin disorders.

Wash thoroughly after working with oil. We recommend water soluble hand cleaners. Do not use kerosene or any other solvent, to remove oil from your skin.

If repeated or prolonged contact with oil is necessary, wear protective clothing. Soiled clothing, particularly those soiled with used oils and greases containing lead, should be cleaned at regular intervals.

46UGIX-002

JACKING POSITIONS

Warning

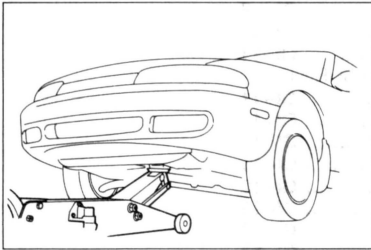
- **Improperly jacking a vehicle is dangerous. The vehicle can slip off the jack and cause serious injury. Use only the correct front and rear jacking positions and block the wheels.**

Use safety stands to support the vehicle after it has been lifted.

46UGIX-003

Front

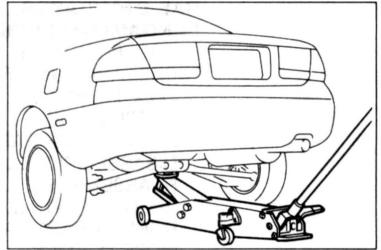
At the center of the crossmember



46UGIX-004

Rear

At the center of the crossmember

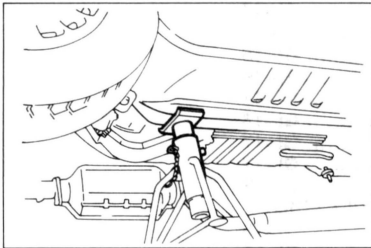


46UGIX-005

SAFETY STAND POSITIONS

Front

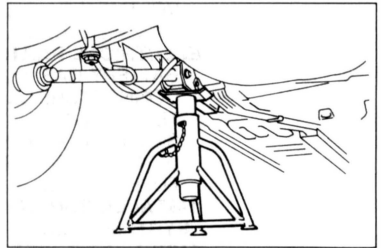
Both sides of the vehicle



46UGIX-006

Rear

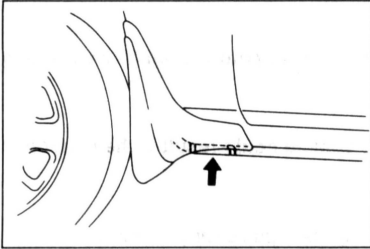
Both sides of the vehicle



46UGIX-007

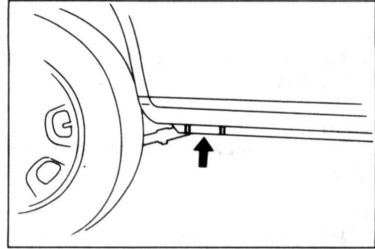
VEHICLE LIFT POSITIONS

Front



46UGIX-008

Rear



46UGI X-009

GI

DYNAMOMETER

When testing - run with a dynamometer;

- Place fan preferentially in clean - speed test type of front of the vehicle
- Connect exhaust silencer in line
- Cool the exhaust pipe with fan.
- Keep the rear out of the wheel cutters.
- Watch what the temperature gauge.

46UG-010

COMPRESSED AIR

When using compressed air to clean or remove parts;

- Wear protected eye wear.
- Hold the rag over the opening to prevent parts from blowing out.
- Take precautions to prevent people around you from being struck by flying debris.

46UGI X-011

HOW TO USE THIS MANUAL

ADVISORY MESSAGES

You'll find several **Warnings**, **Cautions**, and **Notes** in this manual.

Warning

- A **Warning** indicates a situation in which serious injury or death could result if the warning is ignored.

Caution

- A **Caution** indicates a situation in which damage to the vehicle could result if the caution is ignored.

Note

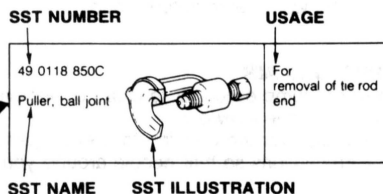
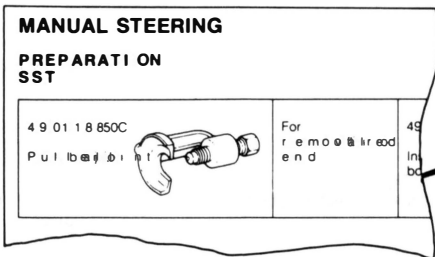
- A **Note** provides added information that will help you to complete a particular procedure.

46UGI X 20

PREPARATION

This points out the needed **SSTs** for the service operation. It is best to gather all necessary **SSTs** before beginning work.

Example:



46UGIX-013

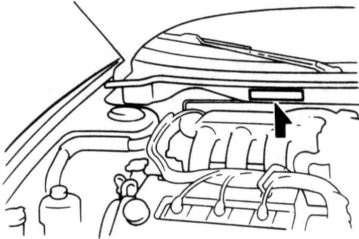
REPAIR PROCEDURE

1. Most repair operations begin with an overview illustration. It identifies the components, shows how the parts fit together, and describes visual part inspection. If a damaged or worn part is found, repair or replace it as necessary.
2. Expendable parts, tightening torques, and symbols for oil, grease, and sealant are shown in the overview illustration.
3. Pages related to service procedures are shown under the illustration. Refer to this information when servicing the related part.

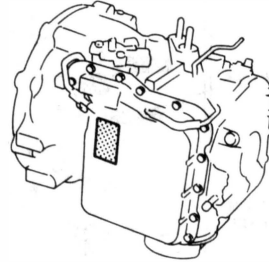
46UGI 041

IDENTIFICATION NUMBER LOCATIONS

VEHICLE IDENTIFICATION NUMBER (VIN)



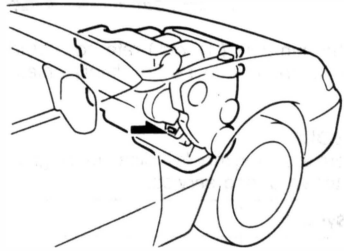
AUTOMATIC TRANSAXLE MODEL AND NUMBER



ENGINE MODEL AND NUMBER
FSENGINE



KL ENGINE



46UGI K70

UNITS

Electrical.....	A (ampere)
Electrical.....	V (volt)
Electrical.....	W (watt)
Length.....	mm (millimetre)
	in (inches)
Negative pressure.....	kPa (kilopascal)
	mmHg (millimetre of mercury)
	inHg (inch of mercury)
Positive pressure.....	kPa (kilopascal)
	kgf/cm ² (kilogram force per square centimetre)
	psi (pound per square inch)
Resistance.....	Ω (ohm)
Torque.....	Nm (Newton metre)
	kgm (kilogram metre)
	kgf·cm (kilogram force centimetre)
	ft·lb (foot pounds)
	in·lb (inch pounds)
Volume.....	L (litre)
	US qt (U.S. quart)
	l qt (Imperial quart)

46UGI X-018