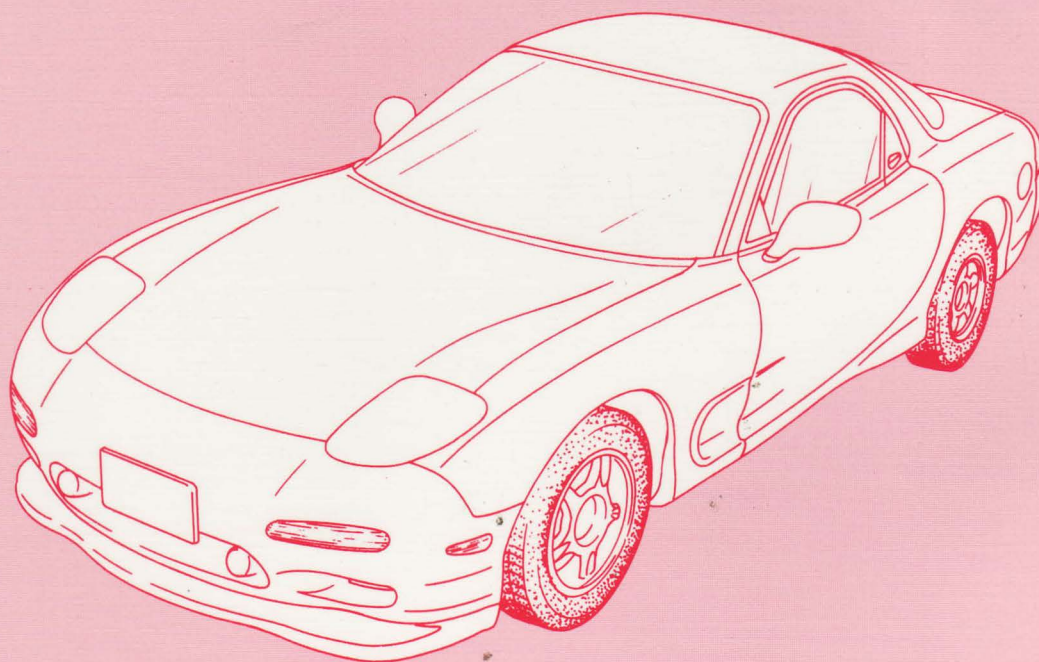


Mazda RX-7

967

Bodyshop Manual





Mazda RX-7 Bodyshop Manual

FOREWORD

This bodyshop manual is intended for use by technicians of Authorized Mazda Dealers to help them service and repair Mazda vehicles. It can also be useful to owners and operators of Mazda vehicles in performing limited repair and maintenance on Mazda vehicles.

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**

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SERVICE PRECAUTIONS

Safety Precautions

Protective shoes and gloves should always be worn. Use heat-resistant protective covers to protect glass and seats from heat or sparks.



Welding glasses



Ear protectors



Welding gloves



Cotton gloves

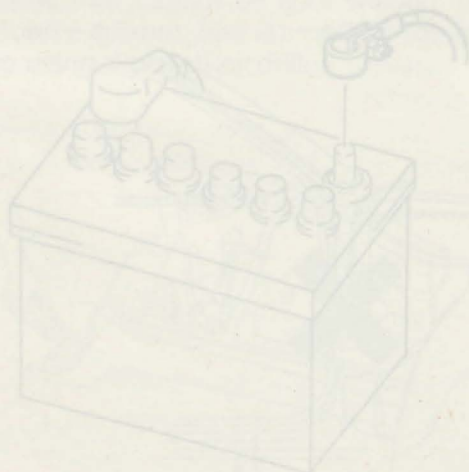
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Prevent Short Circuits

When removing a wiring harness or electrical component, disconnect the negative battery cable.



Use Of Pulling Equipment
When using pulling equipment, keep away from the pulling area and use safety wires to prevent accidents.

GENERAL SERVICE INFORMATION

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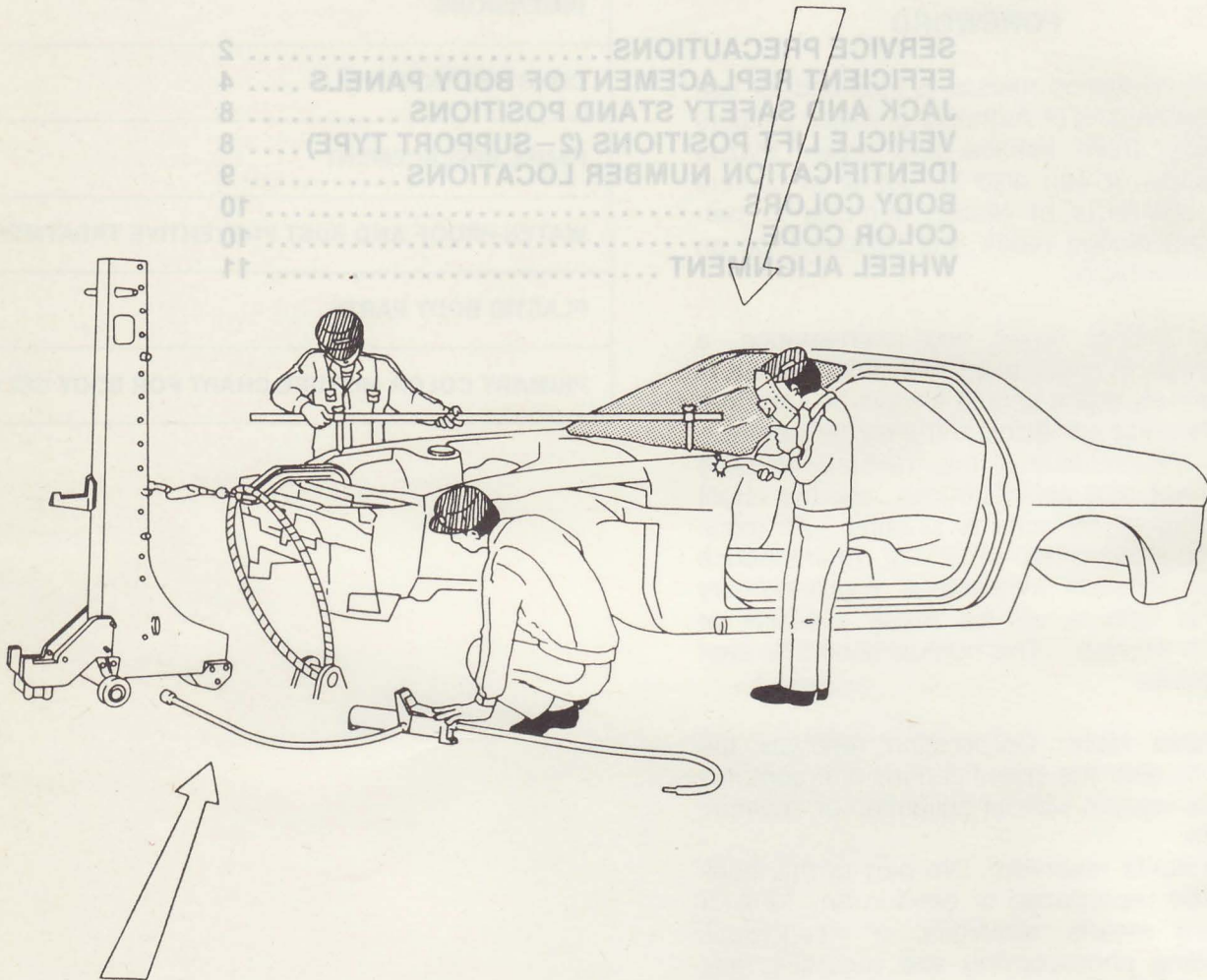
SERVICE PRECAUTIONS

Arrangement Of Workshop

Arrangement of the workshop is important for safe and efficient work.

Vehicle Protection

1. Use seat covers and floor covers.
2. Use heat-resistant protective covers to protect glass areas and seats from heat or sparks during welding.
3. Protect items such as moldings, garnishes, and ornaments with tape when welding.



Use Of Pulling Equipment

When using pulling equipment, keep away from the pulling area and use safety wires to prevent accidents.

GENERAL SERVICE INFORMATION

EFFICIENT REPLACEMENT OF BODY PANELS

Removal

Body measurements

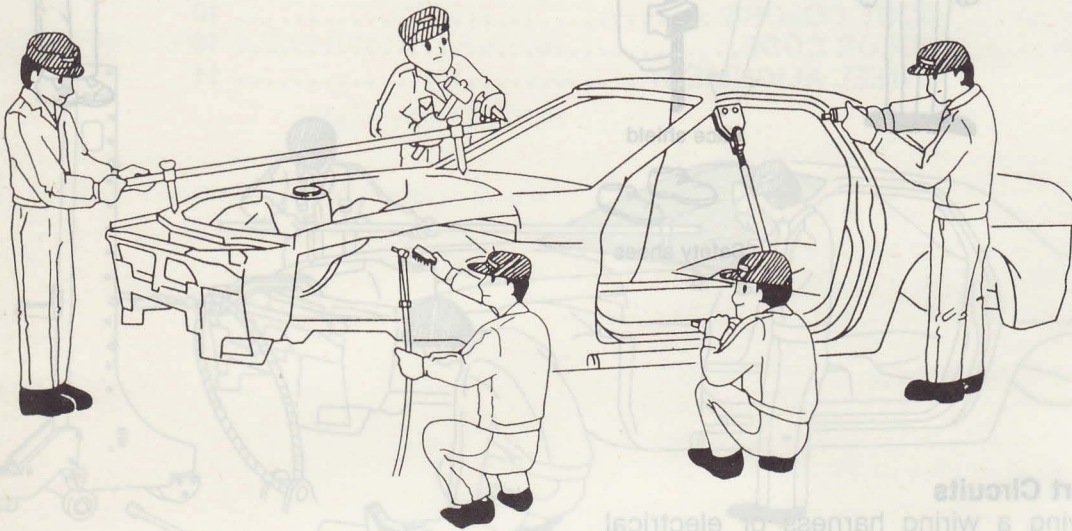
Before removal or rough cutting, first measure the body at and around the damaged area against the standard reference dimension specifications. If there is deformation, use frame repair equipment to make a rough correction.

Prevent of body deformation

Use a clamp or a jack for removal and reinforce at and around the rough-cutting location to prevent deformation of the body.

Selection of cut-and-join locations

For parts where complete replacement is not feasible, careful cutting and joining operations should be followed. If the location to be cut is a flat area where there is no reinforcement, the selected cutting location should be where the welding distortion will be a minimum.



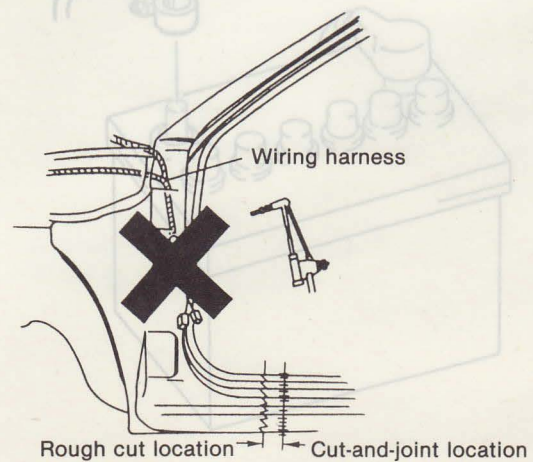
Removal of associated parts

Protect moldings, garnishes, and ornaments with tape when removing associated parts.

Rough-cutting of damaged panel

Verify that there are no parts (such as pipes, hoses, wiring harness, etc.) nearby or on the opposite side of a panel which could be damaged by heat.

For cut-and-join areas, allow for an overlap of 30–50mm {1.18–1.97 in} and then roughly cut the damaged panel.



GENERAL SERVICE INFORMATION

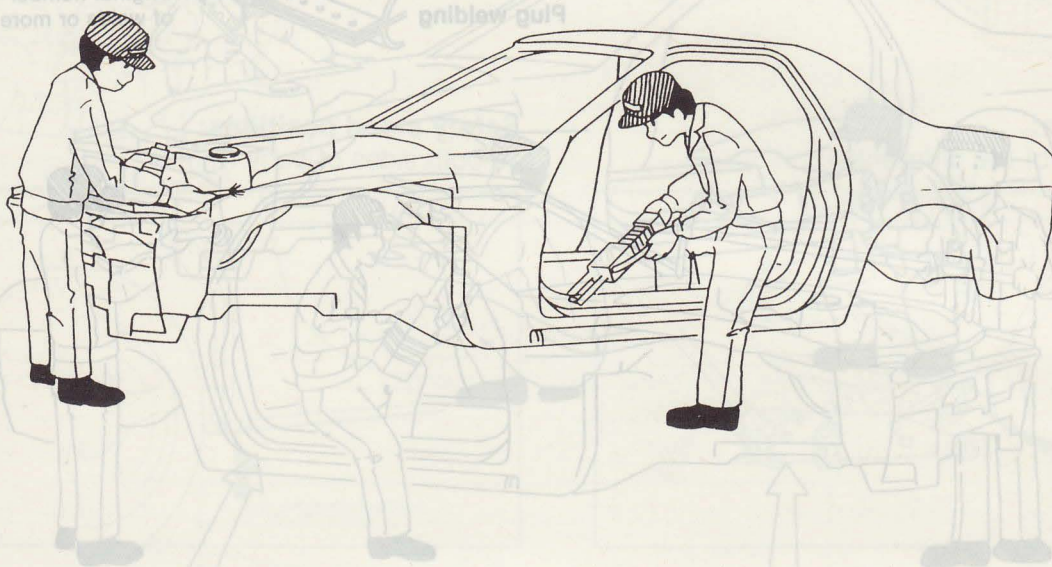
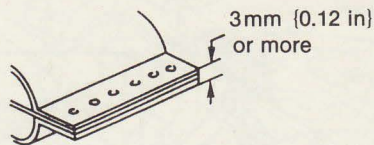
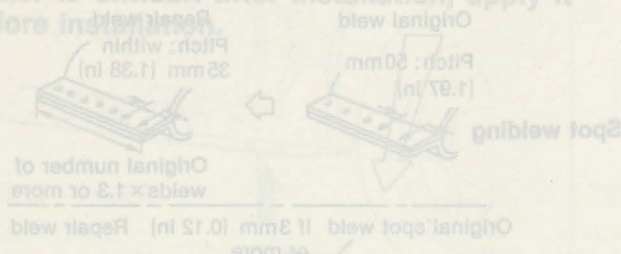
Installation Preparations

Application of weld-through primer

For treatment against corrosion, remove the paint, grease, and other material from the portion of the new part and body to be welded, and apply weld-through primer.

Determination of welding method

If the total thickness at the area to be welded is 3mm {0.12 in} or more, use a CO₂ gas shielded-arc welder to make the plug welds.



Making holes for plugwelding

For places that cannot be spot welded, make a hole of $\phi 5 - \phi 6$ mm { $\phi 0.20 - \phi 0.24$ in} for plug welding using a punch or drill.

Rough cutting of new parts

For cut-and-join areas, allow for an overlap of 30-50mm {1.18-1.97 in} with remaining area in a body side and then rough cut the new part.

