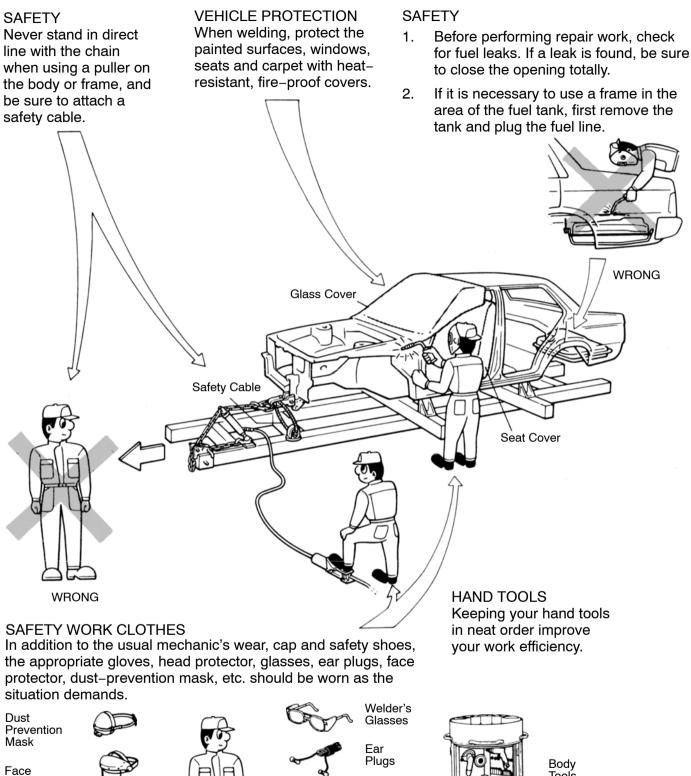
## **GENERAL REPAIR INSTRUCTIONS**

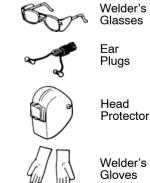
### **Work Precautions**



Eye Protector

Protector

Safetv Shoes



Tools Stand

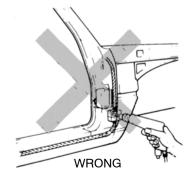
### **Proper and Efficient Work Procedures**

### REMOVAL

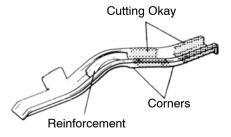
PRE-REMOVAL MEASURING NUMBER OF SPOT WELDS AND PANEL POSITIONS The number of spot welds and the panel positions Before removal or cutting operations, take measurements to be removed are shown for your reference. in accordance with the dimen-HINT: See "Symbols" on page IN-4, 5. sion diagram. Always use a puller to straighten a damaged body or frame. REMOVAL OF ADJACENT COMPONENTS When removing adjacent components, apply protective tape to the surrounding body and your tools to prevent damage. HINT: See "Handling Precautions on Related Components" on page IN-6. **⊙** – 10

# PRECAUTIONS FOR DRILLING OR CUTTING

Check behind any area to be drilled or cut to insure that there are no hoses, wires, etc., that may be damaged. *HINT: See "Handling Precautions on Related Components" on page IN–6.* 

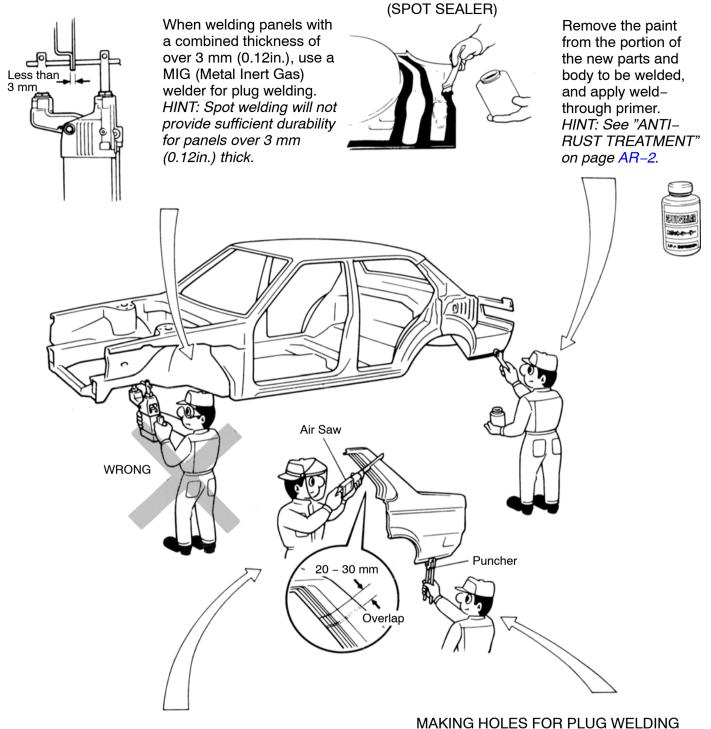


CUTTING AREA Always cut in a straight line and avoid reinforced area.



### PREPARATION FOR INSTALLATION

#### SPOT WELD POINTS



ROUGH CUTING OF JOINTS For joint areas, rough cut the new parts, leaving 20 – 30 mm (0.79 – 1.18in.) overlap.

#### For areas where a spot welder cannot be used, use a puncher or drill to make holes for plug welding. REFERENCE: mm (in )

APPLICATION OF WELD-THROUGH PRIMER

Thickness of welded portion	Size of plug hole
1.0 (0.04) under	5 (0.20)
1.0 (0.04) – 1.5 (0.06)	6.5 (0.26)
1.5 (0.06) over	8 (0.31)

### INSTALLATION

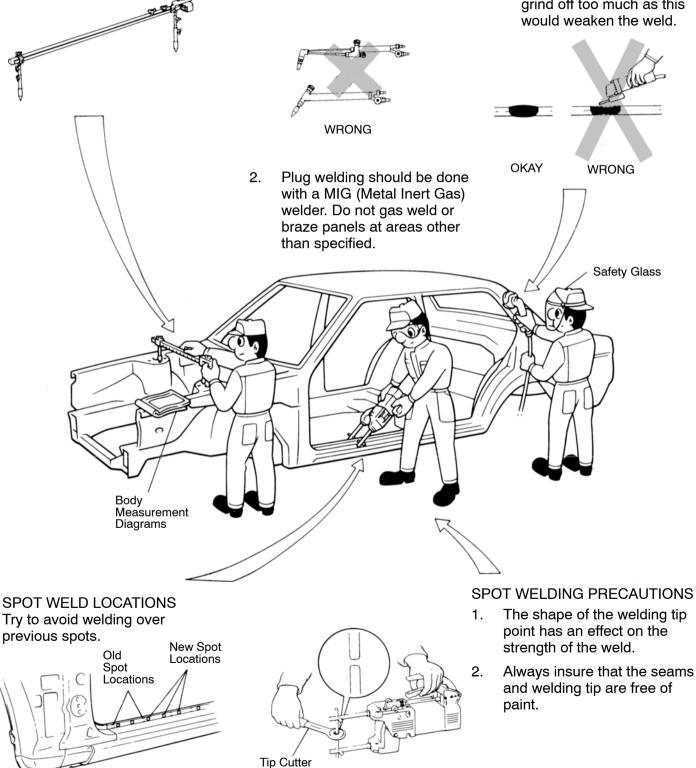
### PRE-WELDING MEASUREMENTS WELDING PRECAUTIONS

Always take measurements before installing underbody or engine components to insure correct assembly. After installation, confirm proper fit.

The number of welding spots 1. should be as follows. Spot weld: 1.3 x No. of manufacturer's spots. Plug weld: More than No. of manufacturer's plugs.

#### POST-WELDING REFINISHING

- Always check the welded 1. spots to insure they are secure.
- When smoothing out the 2. weld spots with a disc grinder, be careful not to grind off too much as this would weaken the weld.



### ANTI-RUST TREATMENT

When replacing body panels, always apply body sealer, anti-rust agent or undercoat according to the requirements of your country.

HINT: For further details see the description given in Section AR of this manual.

