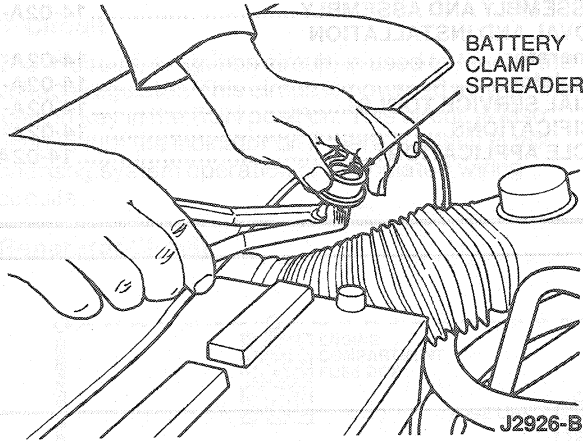


**CLEANING AND INSPECTION (Continued)**

**Battery Clamp Spreader**

The spreader is used to expand the cable clamp after it has been removed from the terminal and the clamp bolt has been loosened. The cable clamp can then be easily placed in its correct position completely on the terminal.



**Terminal Cleaning Brush**

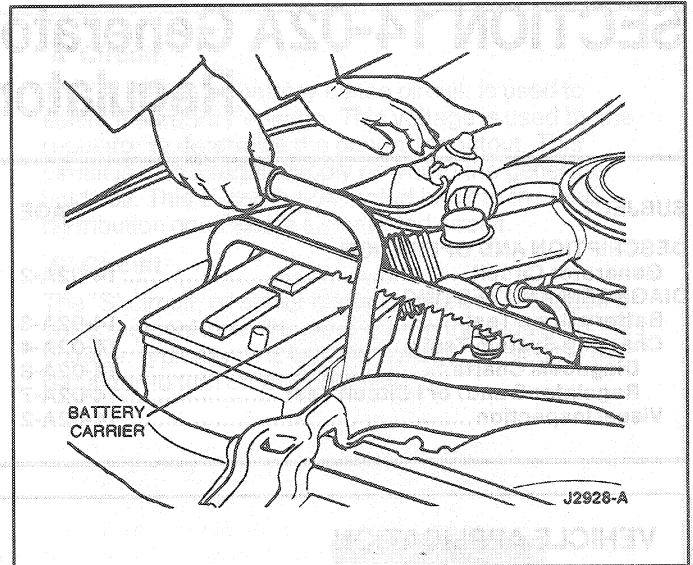
The terminal cleaning brush is designed with units to clean both the tapered battery terminal and the mating surface of the cable clamp. Refer to illustration under Battery Installation, Step 1.

**Battery Carrier**

Use a suitable battery carrier for lifting and transporting the battery. The illustration shows a clamp-type carrier used to grip the sidewalls of the container just below the lip of the cover. The carrier is used on the sidewalls, rather than the endwalls, since the sidewalls have additional strength from the inner cell partitions. This is particularly important with the plastic-cased battery which has endwalls that are flexible.

**WARNING: BATTERIES NORMALLY PRODUCE EXPLOSIVE GASES WHICH CAN CAUSE PERSONAL INJURY. THEREFORE, DO NOT ALLOW FLAMES, SPARKS OR LIGHTED SUBSTANCES TO COME NEAR THE BATTERY. WHEN CHARGING OR WORKING NEAR A BATTERY, ALWAYS SHIELD YOUR FACE AND PROTECT YOUR EYES. ALWAYS PROVIDE VENTILATION.**

**WHEN LIFTING A PLASTIC-CASED BATTERY, EXCESSIVE PRESSURE ON THE END WALLS COULD CAUSE ACID TO SPEW THROUGH THE VENT CAPS, RESULTING IN PERSONAL INJURY. LIFT WITH A BATTERY CARRIER OR WITH YOUR HANDS ON OPPOSITE CORNERS.**



**Adding Water**

Some batteries have removable vent caps and may occasionally require the addition of water. If the electrolyte level is below the level indicator in any cell, add enough pure water to bring the level up to the indicator. In batteries without a level indicator, maintain electrolyte level at 6.3 to 12.7mm (1/4 to 1/2 inch) above the plates. **Never add electrolyte ("battery acid") to the battery.** This could shorten the life of the battery.

**SPECIFICATIONS**

**TORQUE SPECIFICATIONS**

Description	N-m	Lb-in
Battery Tray Retaining Bolts	8-12	6-8 (Lb-Ft)
Battery Tray Hold-Down Bracket Bolt	7-10	6-7 (Lb-Ft)
Battery Terminal Clamps (3.0L/3.8L EFI)	6-10	60-90
Screw	3.4-4.8	31-42
Battery Terminal Clamps (3.0L/3.2L SHO)	7.6-10.4	68-92

**SPECIAL SERVICE TOOLS**

**ROTUNDA EQUIPMENT**

Model	Description
007-00001	Digital Volt-Ohmmeter
021-00046	Battery and Anti-Freeze Tester