ENGINE BLOCK HEATER (Continued)

REMOVAL

REMOVAL — 4.0L

WARNING: DO NOT REMOVE THE CYLINDER BLOCK DRAIN PLUGS OR LOOSEN THE RADIATOR DRAINCOCK WITH THE SYSTEM HOT AND PRESSURIZED. SERIOUS BURNS FROM THE COOLANT CAN OCCUR.

DO NOT WASTE reusable coolant. If solution is clean, drain coolant into a clean container for reuse.

(1) Drain coolant (Refer to 7 - COOLING - STANDARD PROCEDURE).

(2) Unplug power cord from block heater.

(3) Loosen screw in center of block heater (Fig. 4).

(4) Remove block heater from cylinder block.

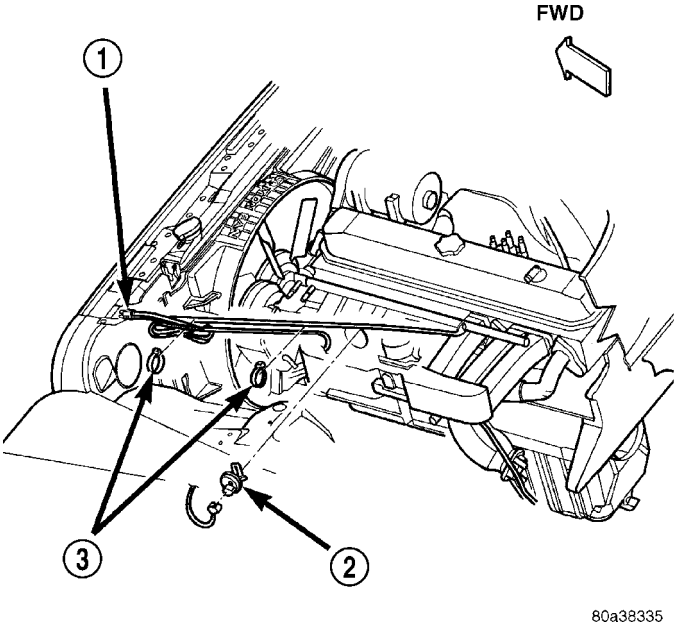

Fig. 4 Block Heater and Cord - 4.0L Engine

1 - POWER CORD
2 - BLOCK HEATER
3 - TIE-STRAPS

REMOVAL - 2.4L

(1) Drain cooling system (Refer to 7 - COOLING/ENGINE - STANDARD PROCEDURE).

(2) Raise vehicle on hoist.

(3) Detach power cord plug from heater.

(4) Loosen screw in center of heater. Remove heater assembly.

INSTALLATION

INSTALLATION 4.0L

(1) Thoroughly clean the engine core hole and the block heater seat.

(2) Insert block heater assembly into core hole with element loop pointing **Up** (Fig. 4).

(3) Seat block heater flush against block face. Tighten mounting screw to 4 N·m (31 in. lbs.) torque.

(4) Fill cooling system (Refer to 7 - COOLING - STANDARD PROCEDURE), and inspect for leaks (Refer to 7 - COOLING - DIAGNOSIS AND TESTING).

(5) Plug power cord into block heater. Route cord away from moving parts, linkages and exhaust system components. Secure cord in place with tie-straps.

INSTALLATION - 2.4L

(1) Thoroughly clean core hole and heater seat.

(2) Insert heater assembly (Fig. 5) with element loop positioned **upward** .

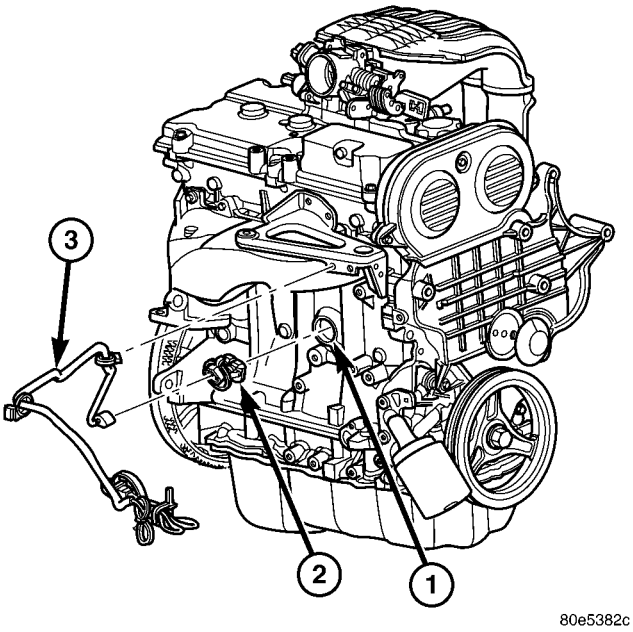

Fig. 5 ENGINE BLOCK HEATER 2.4L

1 - CORE HOLE
2 - BLOCK HEATER
3 - POWER CORD

(3) With heater seated, tighten center screw securely to assure a positive seal.

CAUTION: To prevent damage, the power cord must be secured in it's retaining clips, and not positioned so it could contact linkages or exhaust manifold.

(4) Connect power cord to heater.

(5) Lower vehicle.

(6) Fill cooling system (Refer to 7 - COOLING/ENGINE - STANDARD PROCEDURE).