

Section 4-2

Replace Power Steering Cooler Hoses

This is an easy fix for a common issue: red automatic transmission fluid dripping from underneath the radiator. You might think it to be the transmission cooler at first, but more often than not, it's the power steering cooler hoses.

The materials needed to fix the leaks are limited to one foot of 3/8-inch I.D. power steering return line and four hose clamps. Name brand hose stock such as Goodyear and stainless hose clamps are available at



Figure 4-2-1 – Radiator support drowning in fluid.

almost all discount auto centers.

To remove the grille, remove the two 7/16-in. A/F bolts retaining the grille at the bottom. Open the bonnet to remove the four 7/16-in A/F bolts at the top. The top screws also retain shims of varying thicknesses, so it is important to keep track of the original location of each shim.

As you can see in fig. 4-2-1, the radiator support underneath the power steering cooler can completely fill with fluid. Access to the unit is improved if the deflector panel



Figure 4-2-2 – Access improves with the deflector panel out.

on top of the radiator is removed. (See fig. 4-2-2.) The remainder of the procedure is simple. Remove the bolts securing the cooler, loosen the hose clamps and pull off the cooler and hose pieces being careful not to spill ATF all over the place.

After cleaning the cooler and surrounding area, cut two new hoses to match the old ones. Reassemble the cooler using the new hoses and hose clamps. Position the hose clamp screw heads facing

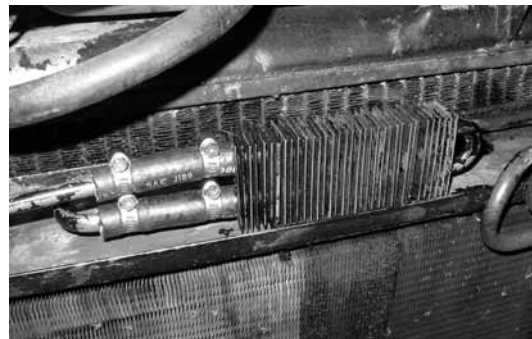


Figure 4-2-3 – New hoses and hose clamps in place.

forward to allow future tightening without the need for grille removal (See fig. 4-2-3.)

Take your Shadow for a brief test drive to ensure that all is leak free before reinstalling the grille. You may also want to take this opportunity to clean the radiator matrix and air conditioning condenser before reattaching the grille.