



Technical Service Information

4L60E/4L65E/4L70E

WATER CONTAMINATION

COMPLAINT: A 2004 to 2006 Chevy full size truck, or a 2004 to 2006 Cadillac Escalade comes in with a complaint of a shudder condition at approximately 40-50 mph (64-80 km/h) when TCC engages. After preliminary diagnoses the pan is dropped and evidence of water contamination is found. The vehicles cooling system has been checked and is found *not* to be the cause of the water contamination.

CAUSE: Water has entered the transmission by water dripping from the cowl area onto the transmission dipstick due to a poor seal between the air inlet grille panel and the hood, (Refer to Figure 1).

CORRECTION: To repair this condition start by removing the two (2) air inlet grille caps by pulling up on the caps, (Refer to Figure 2).

Next, loosen the two (2) sheet metal screws on both ends of the air inlet grille panel. Then remove the four (4) attaching clips running along the edges of the center air inlet grille panel, (Refer to Figure 3).

Next, measure and cut a piece of 7/64" hose 50 inches (1.27 meters) long. Then with a sharp utility knife, cut down the center of the hose into a "C" shape which will allow the hose to be pushed over the cowl seam, See Figure 4.

Next, apply a thin layer of Weather Stripping adhesive into the center of the cut hose.

Next, lift up on the air inlet grille panel in order to expose the cowl area metal edge, then place the hose over the cowl metal edge between the two inner fender brace bolts, See Figure 4, and retain the hose with the two most outer air inlet retaining clips.

Next, push back towards the windshield, on the air inlet grille and tighten the end screws, do not exceed 18 inch pounds. Install the two air inlet grille end caps. Put the vehicle in an area where a water soaking test can be performed.

Next, place a shop rag over the top of the transmission dipstick, (Refer to Figure 5), and close the hood.

Next, spray water over the windshield and cowl area for three (3) minutes, then open the hood and check to see if the shop rag is wet, if not is not the job has been successfully completed. If the shop rag is wet, the area where it leaked will have to be located and then this procedure will have to be repeated.

SERVICE INFORMATION:

Reference Factory Technical Service Bulletin.....05-07-30-017B

A special thanks to Alvin Beverly of Harrell & Beverly Transmissions in Sanford, Fl. for the heads up on this problem.

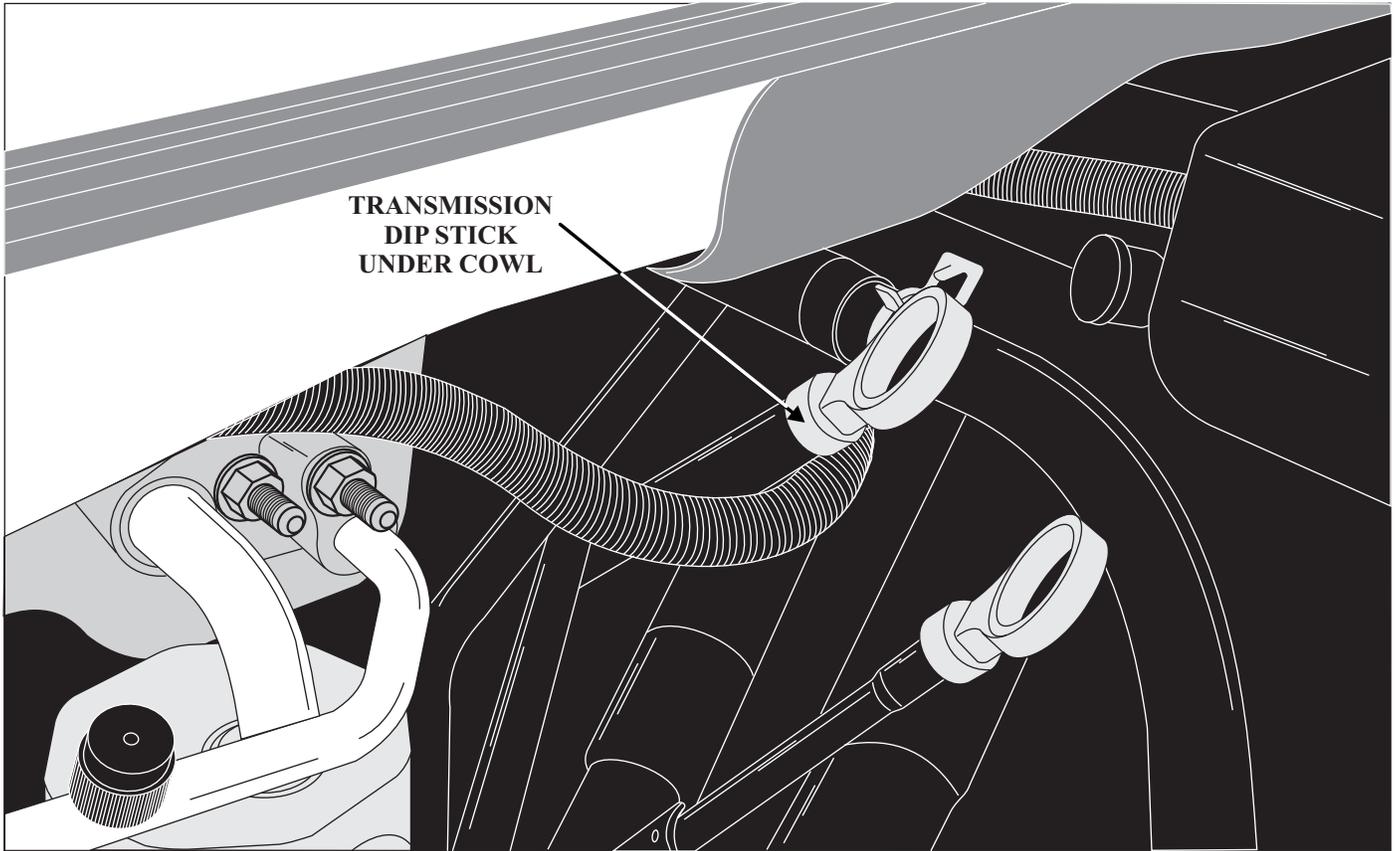


Figure 1

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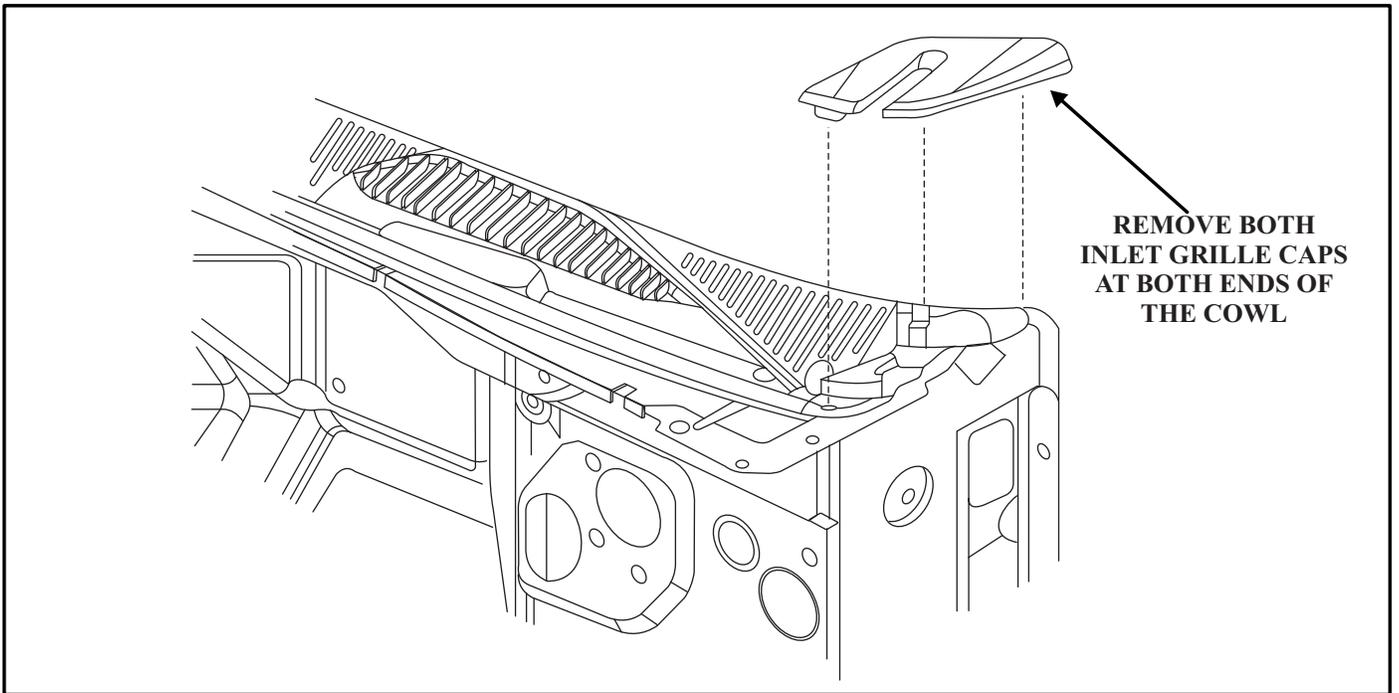


Figure 2

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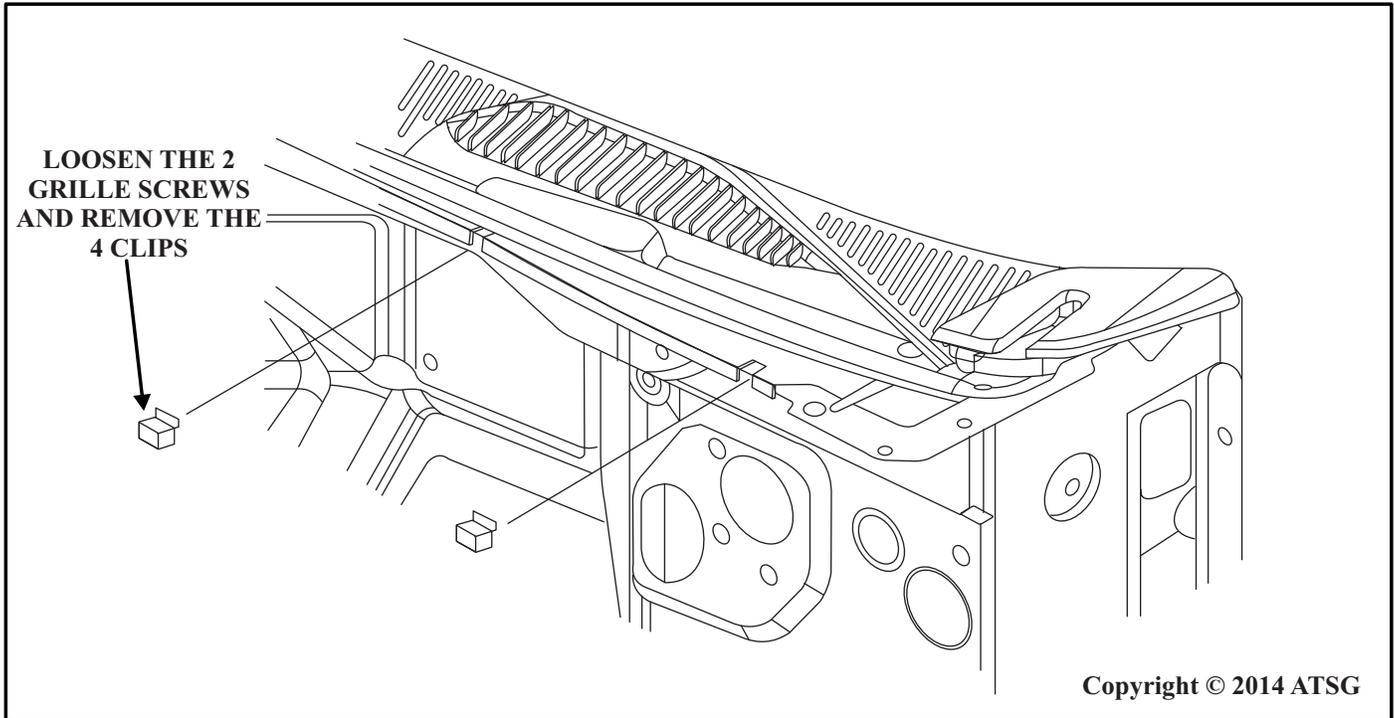


Figure 3

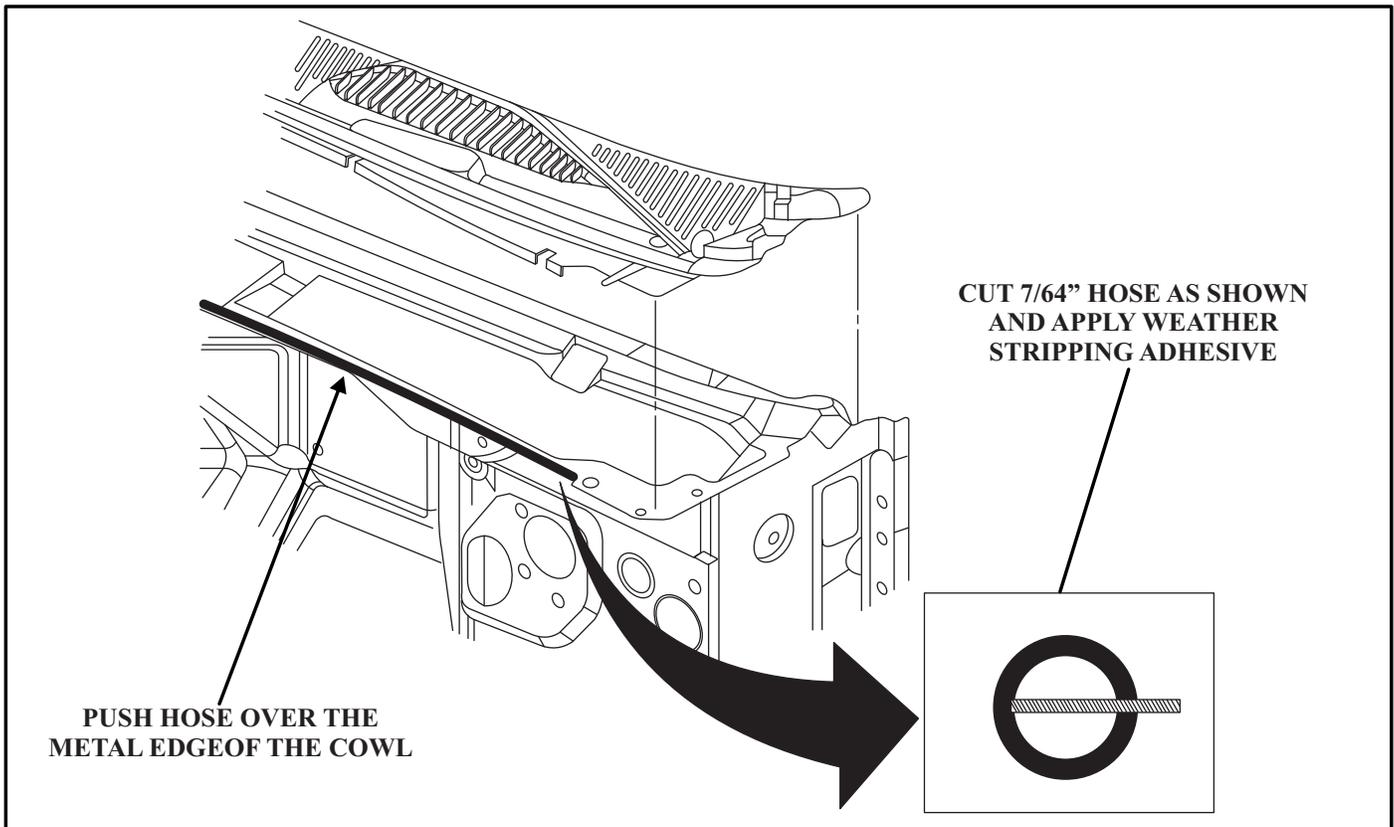


Figure 4



After shop rag is in place, close the hood and soak the windshield and cowl area for 3 minutes. If the rag is dry, the operation has been successful, if it is not, the leak will have to be located and this procedure will have to be repeated.

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Figure 5